

superior conj	14100 Jan 16 19:50	8° $\approx$ 48'24	1°31'08	direct	14100 Nov 15 12:06	20° $\mathbb{M}$ 00'26	
minimum elong	14100 Jan 16 21:26	8° $\approx$ 56'58	1°31'55	morning max el	14100 Nov 29 09:11	26° $\mathbb{M}$ 55'54	24°53'16
max. Earth dist.	14100 Jan 20 01:06	15° $\approx$ 38'11	1.33411 AU		14100 Dec 02 08:31	0° $\mathbb{X}$	
evening rise	14100 Jan 24 17:25	25° $\approx$ 09'19		asc. node	14100 Dec 15 08:26	18° $\mathbb{X}$ 45'44	
	14100 Jan 27 05:24	0° $\mathbb{X}$			14100 Dec 21 06:51	0° $\mathbb{Z}$	
desc. node	14100 Jan 30 03:21	5° $\mathbb{X}$ 25'50		morning set	14100 Dec 25 09:31	8° $\mathbb{Z}$ 35'10	
	14100 Feb 14 07:20	0° $\mathbb{Y}$					
evening max el	14100 Feb 28 05:31	16° $\mathbb{Y}$ 53'00	27°16'57	superior conj	14101 Jan 01 04:04	23° $\mathbb{Z}$ 26'16	1°37'17
retrograde	14100 Mar 13 18:41	24° $\mathbb{Y}$ 21'34		minimum elong	14101 Jan 01 04:36	23° $\mathbb{Z}$ 29'15	1°38'16
evening set	14100 Mar 20 11:22	21° $\mathbb{Y}$ 50'47		max. Earth dist.	14101 Jan 03 01:57	27° $\mathbb{Z}$ 37'28	1.32148 AU
min. Earth dist.	14100 Mar 24 08:18	18° $\mathbb{Y}$ 14'37	0.64924 AU		14101 Jan 04 04:16	0° $\approx$	
asc. node	14100 Mar 26 08:16	16° $\mathbb{Y}$ 03'16		evening rise	14101 Jan 08 11:39	9° $\approx$ 04'19	
inferior conj	14100 Mar 26 18:17	15° $\mathbb{Y}$ 35'35	0°07'59	desc. node	14101 Jan 17 00:02	25° $\approx$ 25'33	
minimum elong	14100 Mar 26 18:04	15° $\mathbb{Y}$ 36'13	0°07'44		14101 Jan 19 14:52	0° $\mathbb{X}$	
transit middle	14100 Mar 26 18:04	15° $\mathbb{Y}$ 36'13	0°07'44	evening max el	14101 Feb 10 17:00	29° $\mathbb{X}$ 58'21	27°34'12
transit begin	14100 Mar 26 15:24	15° $\mathbb{Y}$ 43'34			14101 Feb 10 17:42	0° $\mathbb{Y}$	
transit end	14100 Mar 26 20:44	15° $\mathbb{Y}$ 28'53		retrograde	14101 Feb 24 13:26	7° $\mathbb{Y}$ 24'40	
morning rise	14100 Apr 02 02:34	10° $\mathbb{Y}$ 08'16		evening set	14101 Mar 03 10:24	5° $\mathbb{Y}$ 02'26	
direct	14100 Apr 04 18:25	9° $\mathbb{Y}$ 31'09		min. Earth dist.	14101 Mar 07 04:38	1° $\mathbb{Y}$ 54'26	0.62974 AU
morning max el	14100 Apr 11 02:22	12° $\mathbb{Y}$ 47'55	17°55'25		14101 Mar 09 03:22	30° $\mathbb{R}$ $\mathbb{X}$	
	14100 Apr 23 06:52	0° $\mathbb{B}$		inferior conj	14101 Mar 10 01:14	29° $\mathbb{X}$ 05'42	-1°02'04
desc. node	14100 Apr 28 05:42	8° $\mathbb{B}$ 09'53		minimum elong	14101 Mar 10 03:17	29° $\mathbb{X}$ 00'37	1°01'05
morning set	14100 Apr 28 17:36	8° $\mathbb{B}$ 59'06		asc. node	14101 Mar 13 05:44	26° $\mathbb{X}$ 09'25	
	14100 May 11 15:25	0° $\mathbb{I}$		morning rise	14101 Mar 16 22:49	23° $\mathbb{X}$ 54'11	
				direct	14101 Mar 19 06:47	23° $\mathbb{X}$ 28'26	
superior conj	14100 May 12 18:30	1° $\mathbb{I}$ 47'46	-1°38'02	morning max el	14101 Mar 25 20:08	26° $\mathbb{X}$ 48'52	17°46'13
minimum elong	14100 May 12 09:33	1° $\mathbb{I}$ 12'13	1°38'00		14101 Mar 28 15:33	0° $\mathbb{Y}$	
max. Earth dist.	14100 May 16 18:19	8° $\mathbb{I}$ 05'59	1.45529 AU	morning set	14101 Apr 11 00:13	21° $\mathbb{Y}$ 29'32	
evening rise	14100 May 28 18:29	26° $\mathbb{I}$ 42'39		desc. node	14101 Apr 15 02:17	28° $\mathbb{Y}$ 33'40	
	14100 May 30 22:02	0° $\mathbb{O}$			14101 Apr 15 22:23	0° $\mathbb{B}$	
greatest brilliancy	14100 Jun 12 01:59	18° $\mathbb{O}$ 17'12	-0.6m				
	14100 Jun 20 16:24	0° $\mathbb{Q}$		superior conj	14101 Apr 23 04:45	12° $\mathbb{B}$ 13'52	-1°00'42
asc. node	14100 Jun 22 05:54	1° $\mathbb{Q}$ 49'14		minimum elong	14101 Apr 22 22:46	11° $\mathbb{B}$ 49'07	1°00'29
evening max el	14100 Jun 23 19:22	3° $\mathbb{Q}$ 28'36	19°46'07	max. Earth dist.	14101 Apr 29 12:00	22° $\mathbb{B}$ 27'39	1.44464 AU
retrograde	14100 Jul 01 05:13	7° $\mathbb{Q}$ 39'57			14101 May 04 06:33	0° $\mathbb{I}$	
evening set	14100 Jul 05 00:28	6° $\mathbb{Q}$ 16'05		evening rise	14101 May 08 05:44	6° $\mathbb{I}$ 08'46	
inferior conj	14100 Jul 10 08:16	0° $\mathbb{Q}$ 18'35	3°08'35		14101 May 24 06:13	0° $\mathbb{O}$	
minimum elong	14100 Jul 10 09:00	0° $\mathbb{Q}$ 16'07	3°07'35	evening max el	14101 Jun 06 19:32	17° $\mathbb{O}$ 18'22	20°50'57
	14100 Jul 10 13:48	30° $\mathbb{R}$ $\mathbb{O}$		asc. node	14101 Jun 09 02:54	19° $\mathbb{O}$ 24'55	
min. Earth dist.	14100 Jul 11 10:32	28° $\mathbb{O}$ 50'33	0.67704 AU	retrograde	14101 Jun 15 04:13	22° $\mathbb{O}$ 08'45	
morning rise	14100 Jul 15 17:08	23° $\mathbb{O}$ 54'38		evening set	14101 Jun 19 09:44	20° $\mathbb{O}$ 28'03	
direct	14100 Jul 21 12:26	21° $\mathbb{O}$ 21'55		inferior conj	14101 Jun 24 15:38	14° $\mathbb{O}$ 18'51	3°11'03
desc. node	14100 Jul 25 05:10	22° $\mathbb{O}$ 13'16		minimum elong	14101 Jun 24 15:22	14° $\mathbb{O}$ 19'47	3°09'59
morning max el	14100 Aug 02 11:01	28° $\mathbb{O}$ 31'23	25°04'22	min. Earth dist.	14101 Jun 25 04:11	13° $\mathbb{O}$ 35'23	0.68570 AU
	14100 Aug 03 20:58	0° $\mathbb{Q}$		morning rise	14101 Jun 29 20:44	7° $\mathbb{O}$ 59'00	
	14100 Aug 25 22:57	0° $\mathbb{P}$		direct	14101 Jul 05 04:06	5° $\mathbb{O}$ 39'26	
morning set	14100 Sep 07 07:39	20° $\mathbb{P}$ 38'09		desc. node	14101 Jul 12 02:27	8° $\mathbb{O}$ 38'40	
max. Earth dist.	14100 Sep 10 21:17	27° $\mathbb{P}$ 06'28	1.36758 AU	morning max el	14101 Jul 15 21:31	12° $\mathbb{O}$ 03'41	23°35'50
	14100 Sep 12 10:31	0° $\mathbb{U}$			14101 Jul 30 06:37	0° $\mathbb{Q}$	
					14101 Aug 18 18:16	0° $\mathbb{P}$	
superior conj	14100 Sep 17 11:12	9° $\mathbb{U}$ 41'08	-0°07'47	morning set	14101 Aug 19 20:40	1° $\mathbb{P}$ 50'51	
minimum elong	14100 Sep 17 11:41	9° $\mathbb{U}$ 43'33	0°07'37	max. Earth dist.	14101 Aug 23 19:01	8° $\mathbb{P}$ 35'58	1.39102 AU
behind sun begin	14100 Sep 17 05:55	9° $\mathbb{U}$ 15'10					
behind sun end	14100 Sep 17 17:27	10° $\mathbb{U}$ 11'58		superior conj	14101 Aug 31 09:51	22° $\mathbb{P}$ 23'04	-0°42'22
asc. node	14100 Sep 18 07:19	11° $\mathbb{U}$ 20'40		minimum elong	14101 Aug 31 12:56	22° $\mathbb{P}$ 37'28	0°42'05
evening rise	14100 Sep 25 16:17	26° $\mathbb{U}$ 13'54			14101 Sep 04 10:07	0° $\mathbb{U}$	
	14100 Sep 27 13:13	0° $\mathbb{M}$		asc. node	14101 Sep 05 03:52	1° $\mathbb{U}$ 25'36	
evening max el	14100 Oct 12 21:05	24° $\mathbb{M}$ 32'57	19°40'04	evening rise	14101 Sep 09 14:38	10° $\mathbb{U}$ 04'30	
desc. node	14100 Oct 21 01:18	29° $\mathbb{M}$ 21'41			14101 Sep 20 17:03	0° $\mathbb{M}$	
retrograde	14100 Oct 22 19:34	29° $\mathbb{M}$ 30'43		evening max el	14101 Sep 25 18:38	6° $\mathbb{M}$ 23'09	18°46'43
evening set	14100 Oct 24 17:25	29° $\mathbb{M}$ 20'31		retrograde	14101 Oct 04 04:21	10° $\mathbb{M}$ 36'53	
inferior conj	14100 Nov 02 11:46	25° $\mathbb{M}$ 17'15	-3°48'06	evening set	14101 Oct 06 01:53	10° $\mathbb{M}$ 24'45	
minimum elong	14100 Nov 02 02:27	25° $\mathbb{M}$ 31'53	3°44'10	desc. node	14101 Oct 07 22:47	9° $\mathbb{M}$ 50'37	
min. Earth dist.	14100 Nov 04 17:14	23° $\mathbb{M}$ 53'22	0.55290 AU	inferior conj	14101 Oct 14 05:37	6° $\mathbb{M}$ 03'12	-1°59'57
morning rise	14100 Nov 10 09:41	20° $\mathbb{M}$ 58'14		minimum elong	14101 Oct 14 00:39	6° $\mathbb{M}$ 12'14	1°57'27

min. Earth dist.	14101 Oct 17 07:11	3° $\mathbb{M}$ 50'01	0.56861 AU	minimum elong	14102 Sep 25 20:38	17° $\mathbb{A}$ 37'31	0°19'12
morning rise	14101 Oct 21 20:08	1° $\mathbb{M}$ 07'41		min. Earth dist.	14102 Sep 29 04:22	14° $\mathbb{A}$ 49'03	0.58949 AU
	14101 Oct 25 04:18	30° $\mathbb{K}$ $\mathbb{A}$		morning rise	14102 Oct 03 01:55	12° $\mathbb{A}$ 05'12	
direct	14101 Oct 27 16:51	29° $\mathbb{A}$ 44'20		direct	14102 Oct 09 11:20	10° $\mathbb{A}$ 14'46	
	14101 Oct 30 05:48	0° $\mathbb{M}$		morning max el	14102 Oct 23 18:40	17° $\mathbb{A}$ 57'32	27°32'06
morning max el	14101 Nov 10 22:10	7° $\mathbb{M}$ 07'14	26°27'46		14102 Nov 02 20:31	0° $\mathbb{M}$	
	14101 Nov 27 21:17	0° $\mathbb{X}$		asc. node	14102 Nov 19 02:18	27° $\mathbb{M}$ 13'31	
asc. node	14101 Dec 02 05:24	7° $\mathbb{X}$ 46'49			14102 Nov 20 11:52	0° $\mathbb{X}$	
morning set	14101 Dec 09 20:03	23° $\mathbb{X}$ 09'59		morning set	14102 Nov 24 03:29	7° $\mathbb{X}$ 32'29	
	14101 Dec 12 23:13	0° $\mathbb{B}$		max. Earth dist.	14102 Nov 30 16:24	21° $\mathbb{X}$ 52'05	1.31148 AU
superior conj	14101 Dec 16 14:56	8° $\mathbb{B}$ 08'08	1°37'19	superior conj	14102 Dec 01 02:32	22° $\mathbb{X}$ 48'43	1°31'26
minimum elong	14101 Dec 16 14:24	8° $\mathbb{B}$ 05'10	1°38'22	minimum elong	14102 Dec 01 01:05	22° $\mathbb{X}$ 40'32	1°32'22
max. Earth dist.	14101 Dec 17 08:07	9° $\mathbb{B}$ 43'54	1.31387 AU		14102 Dec 04 07:51	0° $\mathbb{B}$	
evening rise	14101 Dec 23 13:17	23° $\mathbb{B}$ 16'31		evening rise	14102 Dec 07 20:04	7° $\mathbb{B}$ 40'21	
	14101 Dec 26 19:40	0° $\mathbb{A}$			14102 Dec 19 07:09	0° $\mathbb{A}$	
desc. node	14102 Jan 03 20:51	15° $\mathbb{A}$ 01'49		desc. node	14102 Dec 21 17:45	4° $\mathbb{A}$ 05'37	
	14102 Jan 13 11:38	0° $\mathbb{H}$		evening max el	14103 Jan 06 01:03	24° $\mathbb{A}$ 00'48	26°29'12
evening max el	14102 Jan 24 00:26	12° $\mathbb{H}$ 24'29	27°19'11		14103 Jan 14 15:58	0° $\mathbb{H}$	
retrograde	14102 Feb 06 23:53	19° $\mathbb{H}$ 42'33		retrograde	14103 Jan 20 00:10	1° $\mathbb{H}$ 07'51	
evening set	14102 Feb 13 19:36	17° $\mathbb{H}$ 37'02			14103 Jan 25 06:24	30° $\mathbb{R}$ $\mathbb{A}$	
min. Earth dist.	14102 Feb 17 14:57	14° $\mathbb{H}$ 49'59	0.60815 AU	evening set	14103 Jan 26 11:12	29° $\mathbb{A}$ 26'19	
inferior conj	14102 Feb 20 18:24	12° $\mathbb{H}$ 06'29	-2°22'27	min. Earth dist.	14103 Jan 30 14:43	26° $\mathbb{A}$ 49'22	0.58634 AU
minimum elong	14102 Feb 20 23:33	11° $\mathbb{H}$ 55'18	2°20'01	inferior conj	14103 Feb 02 18:06	24° $\mathbb{A}$ 27'36	-3°47'45
morning rise	14102 Feb 28 06:40	7° $\mathbb{H}$ 13'33		minimum elong	14103 Feb 03 02:14	24° $\mathbb{A}$ 12'15	3°44'21
asc. node	14102 Feb 28 03:12	7° $\mathbb{H}$ 16'05		morning rise	14103 Feb 10 20:21	19° $\mathbb{A}$ 55'50	
direct	14102 Mar 02 09:00	6° $\mathbb{H}$ 55'27		direct	14103 Feb 12 20:50	19° $\mathbb{A}$ 41'42	
morning max el	14102 Mar 09 12:04	10° $\mathbb{H}$ 30'06	17°55'18	asc. node	14103 Feb 15 00:39	19° $\mathbb{A}$ 58'36	
	14102 Mar 22 09:24	0° $\mathbb{Y}$		morning max el	14103 Feb 20 22:23	23° $\mathbb{A}$ 40'37	18°24'05
morning set	14102 Mar 25 02:14	4° $\mathbb{Y}$ 54'16			14103 Feb 26 00:27	0° $\mathbb{H}$	
desc. node	14102 Apr 01 22:50	19° $\mathbb{Y}$ 05'11		morning set	14103 Mar 08 17:52	18° $\mathbb{H}$ 55'33	
superior conj	14102 Apr 04 15:07	23° $\mathbb{Y}$ 46'54	-0°21'15		14103 Mar 14 13:35	0° $\mathbb{Y}$	
minimum elong	14102 Apr 04 13:13	23° $\mathbb{Y}$ 38'42	0°21'16	superior conj	14103 Mar 17 23:12	6° $\mathbb{Y}$ 19'08	0°14'54
	14102 Apr 08 06:11	0° $\mathbb{B}$		minimum elong	14103 Mar 18 00:15	6° $\mathbb{Y}$ 24'00	0°14'43
max. Earth dist.	14102 Apr 12 01:56	6° $\mathbb{B}$ 22'34	1.42809 AU	behind sun begin	14103 Mar 17 21:27	6° $\mathbb{Y}$ 11'08	
evening rise	14102 Apr 18 03:47	16° $\mathbb{B}$ 09'54		behind sun end	14103 Mar 18 03:04	6° $\mathbb{Y}$ 36'52	
	14102 Apr 27 04:01	0° $\mathbb{I}$		desc. node	14103 Mar 19 19:22	9° $\mathbb{Y}$ 40'04	
	14102 May 19 11:33	0° $\mathbb{B}$		max. Earth dist.	14103 Mar 25 11:38	19° $\mathbb{Y}$ 39'36	1.40736 AU
evening max el	14102 May 20 14:27	1° $\mathbb{B}$ 09'23	22°06'15	evening rise	14103 Mar 29 21:19	27° $\mathbb{Y}$ 03'45	
asc. node	14102 May 27 00:01	6° $\mathbb{B}$ 00'15			14103 Mar 31 16:26	0° $\mathbb{B}$	
retrograde	14102 May 30 02:05	6° $\mathbb{B}$ 43'16			14103 Apr 20 19:16	0° $\mathbb{I}$	
evening set	14102 Jun 03 18:38	4° $\mathbb{B}$ 46'31		evening max el	14103 May 03 05:43	15° $\mathbb{I}$ 01'37	23°26'56
	14102 Jun 07 22:24	30° $\mathbb{K}$ $\mathbb{I}$		retrograde	14103 May 13 21:25	21° $\mathbb{I}$ 17'34	
inferior conj	14102 Jun 09 01:05	28° $\mathbb{I}$ 27'28	3°02'28	asc. node	14103 May 13 21:15	21° $\mathbb{I}$ 17'34	
minimum elong	14102 Jun 08 23:56	28° $\mathbb{I}$ 31'32	3°01'16	evening set	14103 May 19 01:32	19° $\mathbb{I}$ 06'27	
min. Earth dist.	14102 Jun 09 00:29	28° $\mathbb{I}$ 29'36	0.68962 AU	inferior conj	14103 May 24 10:38	12° $\mathbb{I}$ 39'58	2°43'31
morning rise	14102 Jun 14 05:02	22° $\mathbb{I}$ 13'51		minimum elong	14103 May 24 08:49	12° $\mathbb{I}$ 46'17	2°42'11
direct	14102 Jun 18 23:49	20° $\mathbb{I}$ 12'05		min. Earth dist.	14103 May 23 21:12	13° $\mathbb{I}$ 26'13	0.68875 AU
morning max el	14102 Jun 28 10:05	25° $\mathbb{I}$ 43'54	22°07'18	morning rise	14103 May 29 16:02	6° $\mathbb{I}$ 34'01	
desc. node	14102 Jun 28 23:39	26° $\mathbb{I}$ 18'26		direct	14103 Jun 02 22:15	4° $\mathbb{I}$ 52'32	
	14102 Jul 02 07:11	0° $\mathbb{B}$		morning max el	14103 Jun 11 03:55	9° $\mathbb{I}$ 34'29	20°46'17
	14102 Jul 23 17:54	0° $\mathbb{Q}$		desc. node	14103 Jun 15 20:44	14° $\mathbb{I}$ 52'22	
morning set	14102 Jul 31 09:25	11° $\mathbb{Q}$ 59'50			14103 Jun 26 21:56	0° $\mathbb{B}$	
max. Earth dist.	14102 Aug 05 19:50	20° $\mathbb{Q}$ 54'01	1.41425 AU	morning set	14103 Jul 10 22:54	21° $\mathbb{B}$ 08'58	
	14102 Aug 11 04:05	0° $\mathbb{M}$			14103 Jul 16 13:55	0° $\mathbb{Q}$	
superior conj	14102 Aug 13 14:48	4° $\mathbb{M}$ 17'20	-1°17'38	max. Earth dist.	14103 Jul 19 03:26	4° $\mathbb{Q}$ 06'40	1.43444 AU
minimum elong	14102 Aug 13 20:44	4° $\mathbb{M}$ 43'36	1°17'21	superior conj	14103 Jul 25 21:42	15° $\mathbb{Q}$ 13'49	-1°48'54
asc. node	14102 Aug 23 00:28	21° $\mathbb{M}$ 24'33		minimum elong	14103 Jul 26 05:05	15° $\mathbb{Q}$ 44'44	1°49'01
evening rise	14102 Aug 24 02:46	23° $\mathbb{M}$ 26'43			14103 Aug 03 12:20	0° $\mathbb{M}$	
	14102 Aug 27 15:54	0° $\mathbb{A}$		evening rise	14103 Aug 07 00:07	6° $\mathbb{M}$ 08'46	
evening max el	14102 Sep 09 01:58	18° $\mathbb{A}$ 55'40	18°14'41	asc. node	14103 Aug 09 21:04	11° $\mathbb{M}$ 12'58	
retrograde	14102 Sep 16 08:30	22° $\mathbb{A}$ 37'30			14103 Aug 21 19:08	0° $\mathbb{A}$	
evening set	14102 Sep 18 11:55	22° $\mathbb{A}$ 18'54		evening max el	14103 Aug 23 14:44	1° $\mathbb{A}$ 59'30	18°02'35
desc. node	14102 Sep 24 20:17	18° $\mathbb{A}$ 28'39		retrograde	14103 Aug 30 05:15	5° $\mathbb{A}$ 23'56	
inferior conj	14102 Sep 25 21:20	17° $\mathbb{A}$ 36'01	-0°19'41	evening set	14103 Sep 01 16:25	4° $\mathbb{A}$ 55'10	

inferior conj	14103 Sep 08 08:50	29° $\mathbb{M}$ 52'16	1°00'42	retrograde	14104 Aug 12 13:53	18° $\mathbb{M}$ 46'06	
minimum elong	14103 Sep 08 10:33	29° $\mathbb{M}$ 48'03	0°59'59	evening set	14104 Aug 15 09:26	18° $\mathbb{M}$ 04'14	
	14103 Sep 08 05:41	30° $\mathbb{R}$ $\mathbb{M}$		inferior conj	14104 Aug 21 12:09	12° $\mathbb{M}$ 43'52	1°59'23
min. Earth dist.	14103 Sep 11 10:42	26° $\mathbb{M}$ 52'12	0.61229 AU	minimum elong	14104 Aug 21 14:36	12° $\mathbb{M}$ 37'04	1°58'16
desc. node	14103 Sep 11 17:49	26° $\mathbb{M}$ 35'43		min. Earth dist.	14104 Aug 24 02:53	9° $\mathbb{M}$ 51'11	0.63447 AU
morning rise	14103 Sep 15 01:55	23° $\mathbb{M}$ 54'12		morning rise	14104 Aug 27 17:53	6° $\mathbb{M}$ 28'40	
direct	14103 Sep 21 17:21	21° $\mathbb{M}$ 39'48		desc. node	14104 Aug 28 15:20	5° $\mathbb{M}$ 50'22	
morning max el	14103 Oct 05 22:38	29° $\mathbb{M}$ 36'08	27°58'17	direct	14104 Sep 03 09:20	3° $\mathbb{M}$ 57'11	
	14103 Oct 06 08:11	0° $\underline{\mathbb{L}}$		morning max el	14104 Sep 17 07:35	11° $\mathbb{M}$ 58'23	27°46'07
	14103 Oct 27 20:53	0° $\mathbb{L}$			14104 Oct 01 15:53	0° $\underline{\mathbb{L}}$	
asc. node	14103 Nov 05 23:06	16° $\mathbb{L}$ 58'33			14104 Oct 19 07:53	0° $\mathbb{L}$	
morning set	14103 Nov 08 05:54	21° $\mathbb{L}$ 38'09		morning set	14104 Oct 22 00:56	5° $\mathbb{L}$ 20'26	
	14103 Nov 12 04:24	0° $\mathbb{X}$		asc. node	14104 Oct 22 19:46	6° $\mathbb{L}$ 55'25	
max. Earth dist.	14103 Nov 13 23:04	3° $\mathbb{X}$ 53'11	1.31437 AU	max. Earth dist.	14104 Oct 26 23:57	15° $\mathbb{L}$ 36'12	1.32266 AU
superior conj	14103 Nov 15 13:01	7° $\mathbb{X}$ 22'50	1°19'46	superior conj	14104 Oct 29 20:21	21° $\mathbb{L}$ 44'19	1°02'18
minimum elong	14103 Nov 15 10:55	7° $\mathbb{X}$ 11'12	1°20'26	minimum elong	14104 Oct 29 18:04	21° $\mathbb{L}$ 31'53	1°02'41
evening rise	14103 Nov 22 05:56	22° $\mathbb{X}$ 10'46			14104 Nov 02 15:02	0° $\mathbb{X}$	
	14103 Nov 25 23:02	0° $\mathbb{Z}$		evening rise	14104 Nov 05 16:59	6° $\mathbb{X}$ 41'50	
desc. node	14103 Dec 08 14:45	22° $\mathbb{Z}$ 24'54			14104 Nov 17 18:58	0° $\mathbb{Z}$	
	14103 Dec 14 07:01	0° $\approx$		desc. node	14104 Nov 24 11:53	9° $\mathbb{Z}$ 42'09	
evening max el	14103 Dec 18 17:10	4° $\approx$ 45'01	25°08'10	evening max el	14104 Nov 29 03:09	14° $\mathbb{Z}$ 50'52	23°28'24
retrograde	14104 Jan 01 12:40	11° $\approx$ 40'38		retrograde	14104 Dec 12 12:27	21° $\mathbb{Z}$ 30'13	
evening set	14104 Jan 07 05:15	10° $\approx$ 27'47		evening set	14104 Dec 16 23:54	20° $\mathbb{Z}$ 46'39	
min. Earth dist.	14104 Jan 12 05:10	7° $\approx$ 45'26	0.56666 AU	min. Earth dist.	14104 Dec 23 13:32	17° $\mathbb{Z}$ 39'32	0.55196 AU
inferior conj	14104 Jan 14 21:27	6° $\approx$ 00'32	-5°05'13	inferior conj	14104 Dec 25 04:29	16° $\mathbb{Z}$ 42'35	-5°53'12
minimum elong	14104 Jan 15 06:06	5° $\approx$ 46'22	5°02'21	minimum elong	14104 Dec 25 08:05	16° $\mathbb{Z}$ 37'19	5°51'54
morning rise	14104 Jan 23 09:21	1° $\approx$ 50'49		morning rise	14105 Jan 02 17:56	12° $\mathbb{Z}$ 50'17	
direct	14104 Jan 25 14:11	1° $\approx$ 36'54		direct	14105 Jan 05 11:56	12° $\mathbb{Z}$ 31'56	
asc. node	14104 Feb 01 22:03	4° $\approx$ 23'18		morning max el	14105 Jan 16 10:23	17° $\mathbb{Z}$ 46'18	20°27'56
morning max el	14104 Feb 03 23:04	6° $\approx$ 09'38	19°14'27	asc. node	14105 Jan 18 19:23	20° $\mathbb{Z}$ 17'17	
	14104 Feb 19 02:13	0° $\mathbb{H}$			14105 Jan 25 15:05	0° $\approx$	
morning set	14104 Feb 20 18:46	3° $\mathbb{H}$ 20'30		morning set	14105 Feb 04 01:37	17° $\approx$ 58'42	
					14105 Feb 09 21:17	0° $\mathbb{H}$	
superior conj	14104 Feb 29 00:36	19° $\mathbb{H}$ 38'33	0°45'02	superior conj	14105 Feb 11 14:50	3° $\mathbb{H}$ 31'51	1°08'20
minimum elong	14104 Feb 29 03:04	19° $\mathbb{H}$ 50'28	0°44'56	minimum elong	14105 Feb 11 17:30	3° $\mathbb{H}$ 45'22	1°08'32
desc. node	14104 Mar 05 15:53	0° $\mathbb{Y}$ 15'00		max. Earth dist.	14105 Feb 17 01:34	14° $\mathbb{H}$ 17'00	1.36274 AU
	14104 Mar 05 12:36	0° $\mathbb{Y}$		evening rise	14105 Feb 20 21:24	21° $\mathbb{H}$ 27'00	
max. Earth dist.	14104 Mar 06 18:18	2° $\mathbb{Y}$ 15'01	1.38476 AU	desc. node	14105 Feb 20 12:24	20° $\mathbb{H}$ 45'44	
evening rise	14104 Mar 10 11:57	8° $\mathbb{Y}$ 51'56			14105 Feb 25 16:59	0° $\mathbb{Y}$	
	14104 Mar 23 13:00	0° $\mathbb{B}$			14105 Mar 17 10:09	0° $\mathbb{B}$	
evening max el	14104 Apr 14 19:18	28° $\mathbb{B}$ 54'47	24°46'38	evening max el	14105 Mar 28 08:43	12° $\mathbb{B}$ 45'46	25°58'23
	14104 Apr 15 22:26	0° $\mathbb{I}$		retrograde	14105 Apr 10 00:12	20° $\mathbb{B}$ 01'04	
retrograde	14104 Apr 26 13:06	5° $\mathbb{I}$ 45'54		evening set	14105 Apr 16 02:55	17° $\mathbb{B}$ 30'57	
asc. node	14104 Apr 29 18:32	5° $\mathbb{I}$ 00'48		asc. node	14105 Apr 16 15:55	17° $\mathbb{B}$ 02'44	
evening set	14104 May 02 04:51	3° $\mathbb{I}$ 23'12		min. Earth dist.	14105 Apr 20 07:39	13° $\mathbb{B}$ 02'31	0.67312 AU
	14104 May 05 08:58	30° $\mathbb{R}$ $\mathbb{B}$		inferior conj	14105 Apr 21 22:21	11° $\mathbb{B}$ 01'16	1°34'19
min. Earth dist.	14104 May 06 16:16	28° $\mathbb{B}$ 19'24	0.68320 AU	minimum elong	14105 Apr 21 20:23	11° $\mathbb{B}$ 07'27	1°33'03
inferior conj	14104 May 07 18:24	26° $\mathbb{B}$ 52'43	2°14'16	morning rise	14105 Apr 27 14:34	5° $\mathbb{B}$ 14'04	
minimum elong	14104 May 07 16:15	26° $\mathbb{B}$ 59'52	2°12'52	direct	14105 Apr 30 21:32	4° $\mathbb{B}$ 12'22	
morning rise	14104 May 13 03:52	20° $\mathbb{B}$ 55'32		morning max el	14105 May 07 13:29	7° $\mathbb{B}$ 47'14	18°44'54
direct	14104 May 16 22:01	19° $\mathbb{B}$ 34'40		desc. node	14105 May 19 14:32	23° $\mathbb{B}$ 48'18	
morning max el	14104 May 24 05:04	23° $\mathbb{B}$ 36'43	19°37'52		14105 May 23 15:31	0° $\mathbb{I}$	
	14104 May 29 16:53	0° $\mathbb{I}$		morning set	14105 May 29 12:37	9° $\mathbb{I}$ 08'32	
desc. node	14104 Jun 01 17:42	4° $\mathbb{I}$ 05'55			14105 Jun 11 21:44	0° $\mathbb{O}$	
greatest brilliancy	14104 Jun 05 21:22	10° $\mathbb{I}$ 02'36	-0.6m	max. Earth dist.	14105 Jun 13 11:11	2° $\mathbb{O}$ 26'15	1.45744 AU
morning set	14104 Jun 19 00:58	29° $\mathbb{I}$ 52'33					
	14104 Jun 19 02:54	0° $\mathbb{O}$		superior conj	14105 Jun 14 17:46	4° $\mathbb{O}$ 25'44	-2°12'28
max. Earth dist.	14104 Jun 30 17:17	18° $\mathbb{O}$ 02'50	1.44932 AU	minimum elong	14105 Jun 14 15:01	4° $\mathbb{O}$ 15'02	2°13'28
superior conj	14104 Jul 05 04:54	25° $\mathbb{O}$ 10'53	-2°09'27	evening rise	14105 Jun 30 03:01	28° $\mathbb{O}$ 46'45	
minimum elong	14104 Jul 05 09:30	25° $\mathbb{O}$ 29'20	2°10'17		14105 Jun 30 21:18	0° $\mathbb{Q}$	
	14104 Jul 08 04:38	0° $\mathbb{Q}$		greatest brilliancy	14105 Jul 06 06:58	8° $\mathbb{Q}$ 39'07	-0.9m
evening rise	14104 Jul 19 01:37	17° $\mathbb{Q}$ 58'25		asc. node	14105 Jul 13 14:28	19° $\mathbb{Q}$ 58'24	
	14104 Jul 26 06:26	0° $\mathbb{M}$		evening max el	14105 Jul 20 18:18	29° $\mathbb{Q}$ 05'29	18°33'42
asc. node	14104 Jul 26 17:43	0° $\mathbb{M}$ 46'08			14105 Jul 21 17:37	0° $\mathbb{M}$	
evening max el	14104 Aug 06 05:13	15° $\mathbb{M}$ 25'16	18°09'11	retrograde	14105 Jul 27 06:17	2° $\mathbb{M}$ 35'59	

evening set	14105 Jul 30 10:36	1° $\mathbb{M}$ 38'45			14106 Jun 24 04:31	0° $\mathcal{O}$	
	14105 Aug 01 13:51	30° $\mathcal{R}\mathcal{O}$		asc. node	14106 Jun 30 11:18	8° $\mathcal{O}$ 41'27	
inferior conj	14105 Aug 05 03:20	26° $\mathcal{O}$ 02'58	2°38'39	evening max el	14106 Jul 04 03:30	12° $\mathcal{O}$ 52'53	19°15'13
minimum elong	14105 Aug 05 05:28	25° $\mathcal{O}$ 56'27	2°37'32	retrograde	14106 Jul 11 03:05	16° $\mathcal{O}$ 45'38	
min. Earth dist.	14105 Aug 07 04:18	23° $\mathcal{O}$ 34'35	0.65411 AU	evening set	14106 Jul 14 16:45	15° $\mathcal{O}$ 31'40	
morning rise	14105 Aug 10 23:12	19° $\mathcal{O}$ 39'44		inferior conj	14106 Jul 20 02:55	9° $\mathcal{O}$ 41'55	3°01'39
desc. node	14105 Aug 15 12:49	17° $\mathcal{O}$ 13'07		minimum elong	14106 Jul 20 04:14	9° $\mathcal{O}$ 37'39	3°00'37
direct	14105 Aug 17 09:40	17° $\mathcal{O}$ 00'20		min. Earth dist.	14106 Jul 21 13:26	7° $\mathcal{O}$ 49'41	0.66997 AU
morning max el	14105 Aug 30 18:37	24° $\mathcal{O}$ 53'27	27°01'03	morning rise	14106 Jul 25 15:07	3° $\mathcal{O}$ 17'06	
	14105 Sep 04 10:00	0° $\mathbb{M}$		direct	14106 Jul 31 16:48	0° $\mathcal{O}$ 39'27	
	14105 Sep 25 02:50	0° $\mathcal{O}$		desc. node	14106 Aug 02 10:15	0° $\mathcal{O}$ 50'38	
morning set	14105 Oct 05 09:51	18° $\mathcal{O}$ 33'06		morning max el	14106 Aug 13 05:34	8° $\mathcal{O}$ 08'49	25°51'35
max. Earth dist.	14105 Oct 09 15:47	26° $\mathcal{O}$ 56'46	1.33640 AU		14106 Aug 30 08:11	0° $\mathbb{M}$	
asc. node	14105 Oct 09 16:23	26° $\mathcal{O}$ 59'50			14106 Sep 17 14:25	0° $\mathcal{O}$	
	14105 Oct 11 03:40	0° $\mathbb{M}$		morning set	14106 Sep 18 05:05	1° $\mathcal{O}$ 06'59	
				max. Earth dist.	14106 Sep 21 21:40	8° $\mathcal{O}$ 01'54	1.35513 AU
superior conj	14105 Oct 13 22:25	5° $\mathbb{M}$ 47'52	0°39'10	asc. node	14106 Sep 26 12:58	17° $\mathcal{O}$ 07'17	
minimum elong	14105 Oct 13 20:34	5° $\mathbb{M}$ 38'04	0°39'21				
evening rise	14105 Oct 21 03:22	21° $\mathbb{M}$ 09'22		superior conj	14106 Sep 27 16:33	19° $\mathcal{O}$ 26'15	0°10'43
	14105 Oct 25 10:08	0° $\mathcal{X}$		minimum elong	14106 Sep 27 15:55	19° $\mathcal{O}$ 23'04	0°10'51
evening max el	14105 Nov 10 15:38	24° $\mathcal{X}$ 53'39	21°47'38	behind sun begin	14106 Sep 27 11:21	18° $\mathcal{O}$ 59'56	
desc. node	14105 Nov 11 09:05	25° $\mathcal{X}$ 35'18		behind sun end	14106 Sep 27 20:29	19° $\mathcal{O}$ 46'14	
	14105 Nov 17 22:43	0° $\mathcal{Z}$			14106 Oct 02 19:49	0° $\mathbb{M}$	
retrograde	14105 Nov 23 01:25	1° $\mathcal{Z}$ 02'30		evening rise	14106 Oct 05 11:04	5° $\mathbb{M}$ 27'38	
evening set	14105 Nov 26 03:55	0° $\mathcal{Z}$ 40'51			14106 Oct 19 01:32	0° $\mathcal{X}$	
	14105 Nov 28 10:22	30° $\mathcal{R}\mathcal{X}$		evening max el	14106 Oct 23 15:26	5° $\mathcal{X}$ 27'57	20°20'40
inferior conj	14105 Dec 04 21:52	26° $\mathcal{X}$ 47'45	-5°48'05	desc. node	14106 Oct 29 06:24	9° $\mathcal{X}$ 37'43	
minimum elong	14105 Dec 04 16:27	26° $\mathcal{X}$ 55'20	5°46'28	retrograde	14106 Nov 03 12:31	10° $\mathcal{X}$ 52'33	
min. Earth dist.	14105 Dec 04 19:38	26° $\mathcal{X}$ 50'52	0.54506 AU	evening set	14106 Nov 05 16:27	10° $\mathcal{X}$ 40'42	
morning rise	14105 Dec 13 05:51	23° $\mathcal{X}$ 00'01		inferior conj	14106 Nov 14 14:42	6° $\mathcal{X}$ 44'50	-4°43'57
direct	14105 Dec 16 21:13	22° $\mathcal{X}$ 30'58		minimum elong	14106 Nov 14 04:37	6° $\mathcal{X}$ 59'38	4°40'19
morning max el	14105 Dec 29 07:13	28° $\mathcal{X}$ 28'57	22°02'56	min. Earth dist.	14106 Nov 16 02:22	5° $\mathcal{X}$ 52'29	0.54747 AU
	14105 Dec 30 19:34	0° $\mathcal{Z}$		morning rise	14106 Nov 22 16:12	2° $\mathcal{X}$ 42'56	
asc. node	14106 Jan 05 16:37	7° $\mathcal{Z}$ 23'25		direct	14106 Nov 27 06:51	1° $\mathcal{X}$ 57'04	
	14106 Jan 18 04:48	0° $\approx$		morning max el	14106 Dec 10 18:08	8° $\mathcal{X}$ 33'09	23°51'13
morning set	14106 Jan 19 11:58	2° $\approx$ 43'16		asc. node	14106 Dec 23 13:46	25° $\mathcal{X}$ 24'58	
					14106 Dec 26 05:11	0° $\mathcal{Z}$	
superior conj	14106 Jan 26 14:16	17° $\approx$ 48'53	1°24'43	morning set	14107 Jan 03 23:51	17° $\mathcal{Z}$ 28'37	
minimum elong	14106 Jan 26 16:23	18° $\approx$ 00'01	1°25'18		14107 Jan 09 18:02	0° $\approx$	
max. Earth dist.	14106 Jan 30 14:28	26° $\approx$ 07'10	1.34345 AU				
	14106 Feb 01 12:52	0° $\mathcal{H}$		superior conj	14107 Jan 10 20:00	2° $\approx$ 21'23	1°34'29
evening rise	14106 Feb 03 22:14	4° $\mathcal{H}$ 40'10		minimum elong	14107 Jan 10 21:10	2° $\approx$ 27'42	1°35'23
desc. node	14106 Feb 07 08:57	11° $\mathcal{H}$ 08'27		max. Earth dist.	14107 Jan 13 11:24	8° $\approx$ 02'44	1.32819 AU
	14106 Feb 18 12:11	0° $\mathcal{Y}$		evening rise	14107 Jan 18 11:02	18° $\approx$ 22'38	
evening max el	14106 Mar 10 22:28	26° $\mathcal{Y}$ 28'21	26°54'39		14107 Jan 24 12:19	0° $\mathcal{H}$	
	14106 Mar 14 23:40	0° $\mathcal{B}$		desc. node	14107 Jan 25 05:35	1° $\mathcal{H}$ 18'36	
retrograde	14106 Mar 24 05:39	3° $\mathcal{B}$ 55'09			14107 Feb 12 18:12	0° $\mathcal{Y}$	
evening set	14106 Mar 30 17:48	1° $\mathcal{B}$ 23'03		evening max el	14107 Feb 21 11:34	9° $\mathcal{Y}$ 52'05	27°28'03
	14106 Apr 01 07:45	30° $\mathcal{R}\mathcal{Y}$		retrograde	14107 Mar 07 04:24	17° $\mathcal{Y}$ 19'58	
min. Earth dist.	14106 Apr 03 17:15	27° $\mathcal{Y}$ 28'19	0.65896 AU	evening set	14107 Mar 13 23:22	14° $\mathcal{Y}$ 52'14	
asc. node	14106 Apr 03 13:21	27° $\mathcal{Y}$ 39'19		min. Earth dist.	14107 Mar 17 19:00	11° $\mathcal{Y}$ 28'28	0.64124 AU
inferior conj	14106 Apr 05 20:17	25° $\mathcal{Y}$ 00'22	0°42'57	inferior conj	14107 Mar 20 09:38	8° $\mathcal{Y}$ 44'01	-0°20'16
minimum elong	14106 Apr 05 19:11	25° $\mathcal{Y}$ 03'35	0°42'12	minimum elong	14107 Mar 20 10:15	8° $\mathcal{Y}$ 42'22	0°20'05
morning rise	14106 Apr 11 21:56	19° $\mathcal{Y}$ 24'55		asc. node	14107 Mar 21 10:49	7° $\mathcal{Y}$ 38'28	
direct	14106 Apr 14 18:54	18° $\mathcal{Y}$ 39'44		morning rise	14107 Mar 26 23:17	3° $\mathcal{Y}$ 22'44	
morning max el	14106 Apr 21 03:33	21° $\mathcal{Y}$ 59'55	18°08'32	direct	14107 Mar 29 11:37	2° $\mathcal{Y}$ 50'49	
	14106 Apr 27 13:29	0° $\mathcal{B}$		morning max el	14107 Apr 04 20:49	6° $\mathcal{Y}$ 07'52	17°49'20
desc. node	14106 May 06 11:15	13° $\mathcal{B}$ 51'24			14107 Apr 20 20:44	0° $\mathcal{B}$	
morning set	14106 May 10 01:35	19° $\mathcal{B}$ 39'31		morning set	14107 Apr 21 18:24	1° $\mathcal{B}$ 31'28	
	14106 May 16 12:06	0° $\mathbb{I}$		desc. node	14107 Apr 23 07:53	4° $\mathcal{B}$ 09'30	
superior conj	14106 May 25 02:31	13° $\mathbb{I}$ 36'10	-1°55'22	superior conj	14107 May 05 00:16	23° $\mathcal{B}$ 26'41	-1°22'56
minimum elong	14106 May 24 18:00	13° $\mathbb{I}$ 02'47	1°55'43	minimum elong	14107 May 04 16:10	22° $\mathcal{B}$ 54'03	1°22'45
max. Earth dist.	14106 May 27 07:07	17° $\mathbb{I}$ 01'59	1.45820 AU		14107 May 09 02:42	0° $\mathbb{I}$	
	14106 Jun 04 15:08	0° $\mathcal{E}$		max. Earth dist.	14107 May 10 02:49	1° $\mathbb{I}$ 35'27	1.45159 AU
evening rise	14106 Jun 10 04:51	8° $\mathcal{E}$ 38'11		evening rise	14107 May 20 16:58	18° $\mathbb{I}$ 02'25	
greatest brilliancy	14106 Jun 22 04:08	27° $\mathcal{E}$ 00'26	-0.7m		14107 May 28 14:24	0° $\mathcal{E}$	

asc. node	14107 Jun 17 08:15	26°♄45'36		14108 Apr 30 19:31	0°♈	
evening max el	14107 Jun 17 07:12	26°♄42'57	20°12'10	14108 May 21 10:00	0°♄	
	14107 Jun 21 08:16	0°♈		evening max el	14108 May 30 04:57	10°♄32'55 21°21'56
retrograde	14107 Jun 25 01:51	1°♈09'28		asc. node	14108 Jun 03 05:20	13°♄57'38
	14107 Jun 28 13:23	30°♋♄		retrograde	14108 Jun 08 00:36	15°♄41'29
evening set	14107 Jun 29 01:29	29°♄38'15		evening set	14108 Jun 12 10:49	13°♄53'33
inferior conj	14107 Jul 04 08:10	23°♄35'42	3°11'03	inferior conj	14108 Jun 17 16:40	7°♄39'45 3°08'41
minimum elong	14107 Jul 04 08:28	23°♄34'40	3°10'01	minimum elong	14108 Jun 17 16:00	7°♄42'06 3°07'35
min. Earth dist.	14107 Jul 05 04:29	22°♄26'27	0.68136 AU	min. Earth dist.	14108 Jun 17 23:28	7°♄16'03 0.68795 AU
morning rise	14107 Jul 09 15:08	17°♄13'28		morning rise	14108 Jun 22 20:58	1°♄22'31
direct	14107 Jul 15 05:35	14°♄45'39			14108 Jun 24 19:24	30°♋♈
desc. node	14107 Jul 20 07:37	16°♄22'36		direct	14108 Jun 27 22:57	29°♈10'23
morning max el	14107 Jul 26 15:59	21°♄36'27	24°27'18		14108 Jul 01 08:39	0°♄
	14107 Aug 02 22:54	0°♈		desc. node	14108 Jul 06 04:52	3°♄22'19
	14107 Aug 23 14:07	0°♎		morning max el	14108 Jul 08 03:09	5°♄12'24 22°57'47
morning set	14107 Aug 31 06:26	12°♎52'23			14108 Jul 27 05:30	0°♈
max. Earth dist.	14107 Sep 03 21:00	19°♎15'51	1.37747 AU	morning set	14108 Aug 11 09:30	23°♈38'59
	14107 Sep 09 15:50	0°♊			14108 Aug 15 04:23	0°♎
				max. Earth dist.	14108 Aug 15 19:51	1°♎06'01 1.40107 AU
superior conj	14107 Sep 10 23:28	2°♊31'40	-0°22'09			
minimum elong	14107 Sep 11 00:58	2°♊38'53	0°21'55	superior conj	14108 Aug 23 15:09	14°♎54'40 -0°57'27
asc. node	14107 Sep 13 09:31	7°♊14'19		minimum elong	14108 Aug 23 19:29	15°♎14'26 0°57'08
evening rise	14107 Sep 19 13:43	19°♊30'54		asc. node	14108 Aug 30 06:06	27°♎17'28
	14107 Sep 24 23:06	0°♌			14108 Aug 31 16:12	0°♊
evening max el	14107 Oct 06 05:33	16°♌50'18	19°14'36	evening rise	14108 Sep 02 08:15	3°♊11'16
retrograde	14107 Oct 15 11:16	21°♌28'11		evening max el	14108 Sep 18 07:44	28°♊59'51 18°30'33
desc. node	14107 Oct 16 03:49	21°♌26'43			14108 Sep 19 09:28	0°♌
evening set	14107 Oct 17 07:59	21°♌17'40		retrograde	14108 Sep 26 04:47	2°♌58'51
inferior conj	14107 Oct 25 20:58	17°♌06'58	-3°02'34	evening set	14108 Sep 28 04:15	2°♌44'32
minimum elong	14107 Oct 25 13:15	17°♌19'49	2°59'02	desc. node	14108 Oct 02 01:18	1°♌03'06
min. Earth dist.	14107 Oct 28 12:43	15°♌21'07	0.55882 AU		14108 Oct 03 15:34	30°♋♊
morning rise	14107 Nov 02 16:05	12°♌33'22		inferior conj	14108 Oct 06 00:14	28°♊13'42 -1°15'30
direct	14107 Nov 08 02:54	11°♌25'23		minimum elong	14108 Oct 05 21:15	28°♊19'30 1°13'54
morning max el	14107 Nov 22 04:14	18°♌32'28	25°36'20	min. Earth dist.	14108 Oct 09 05:35	25°♊43'54 0.57698 AU
	14107 Dec 01 17:54	0°♌		morning rise	14108 Oct 13 10:47	23°♊02'14
asc. node	14107 Dec 10 10:49	14°♌07'56		direct	14108 Oct 19 13:22	21°♊27'36
	14107 Dec 18 11:13	0°♉		morning max el	14108 Nov 02 20:33	28°♊59'57 26°59'34
morning set	14107 Dec 19 11:23	2°♉09'08			14108 Nov 03 20:44	0°♌
					14108 Nov 24 13:00	0°♌
superior conj	14107 Dec 26 05:36	17°♉01'47	1°38'01	asc. node	14108 Nov 26 07:45	3°♌21'30
minimum elong	14107 Dec 26 05:40	17°♉02'13	1°39'04	morning set	14108 Dec 02 20:53	16°♌40'15
max. Earth dist.	14107 Dec 27 15:07	20°♉07'03	1.31766 AU		14108 Dec 08 22:21	0°♉
	14108 Jan 01 04:50	0°♊				
evening rise	14108 Jan 02 08:44	2°♊26'01		superior conj	14108 Dec 09 17:03	1°♉44'28 1°35'33
desc. node	14108 Jan 12 02:18	21°♊09'37		minimum elong	14108 Dec 09 16:06	1°♉39'08 1°36'33
	14108 Jan 17 08:39	0°♋		max. Earth dist.	14108 Dec 09 22:46	2°♉16'29 1.31221 AU
evening max el	14108 Feb 03 21:44	22°♋42'40	27°32'00	evening rise	14108 Dec 16 12:51	16°♉44'18
	14108 Feb 16 10:13	0°♎			14108 Dec 23 02:12	0°♊
retrograde	14108 Feb 17 19:28	0°♎05'15		desc. node	14108 Dec 28 23:09	10°♊33'51
	14108 Feb 19 04:16	30°♋♋			14109 Jan 11 13:13	0°♋
evening set	14108 Feb 24 16:53	27°♋49'10		evening max el	14109 Jan 16 02:22	4°♋48'12 27°01'58
min. Earth dist.	14108 Feb 28 11:03	24°♋51'20	0.62076 AU	retrograde	14109 Jan 30 01:53	12°♋02'08
inferior conj	14108 Mar 02 11:11	22°♋03'03	-1°35'05	evening set	14109 Feb 05 19:07	10°♋05'37
minimum elong	14108 Mar 02 14:28	21°♋55'20	1°33'29	min. Earth dist.	14109 Feb 09 16:37	7°♋24'45 0.59885 AU
asc. node	14108 Mar 07 08:19	18°♋04'09		inferior conj	14109 Feb 12 21:21	4°♋48'11 -2°58'34
morning rise	14108 Mar 09 14:55	16°♋59'05		minimum elong	14109 Feb 13 03:52	4°♋34'50 2°55'36
direct	14108 Mar 11 20:19	16°♋36'55		morning rise	14109 Feb 20 15:53	0°♋04'22
morning max el	14108 Mar 18 14:14	20°♋01'45	17°47'49		14109 Feb 20 23:12	30°♋♊
	14108 Mar 26 00:42	0°♎		asc. node	14109 Feb 22 05:46	29°♊49'15
morning set	14108 Apr 03 10:02	14°♎27'29		direct	14109 Feb 22 16:51	29°♊48'25
desc. node	14108 Apr 09 04:28	24°♎37'14			14109 Feb 24 09:46	0°♋
	14108 Apr 12 07:12	0°♌		morning max el	14109 Mar 02 04:19	3°♋31'50 18°05'02
				morning set	14109 Mar 17 18:24	28°♋09'20
superior conj	14108 Apr 14 20:45	4°♌21'24	-0°43'50		14109 Mar 18 18:12	0°♎
minimum elong	14108 Apr 14 16:33	4°♌03'42	0°43'41	desc. node	14109 Mar 27 01:01	15°♎10'43
max. Earth dist.	14108 Apr 21 19:35	15°♌49'15	1.43825 AU			
evening rise	14108 Apr 29 07:12	27°♌39'40		superior conj	14109 Mar 27 16:52	16°♎21'19 -0°05'20

minimum elong	14109 Mar 27 16:25	16° $\Upsilon$ 19'20	0°05'26	minimum elong	14110 Mar 10 10:43	29° $\text{X}$ 23'57	0°28'17
behind sun begin	14109 Mar 27 09:04	15° $\Upsilon$ 46'37			14110 Mar 10 18:25	0° $\Upsilon$	
behind sun end	14109 Mar 27 23:46	16° $\Upsilon$ 51'58		desc. node	14110 Mar 13 21:32	5° $\Upsilon$ 46'14	
max. Earth dist.	14109 Apr 04 07:29	29° $\Upsilon$ 28'16	1.41965 AU	max. Earth dist.	14110 Mar 17 15:01	12° $\Upsilon$ 25'18	1.39782 AU
	14109 Apr 04 15:06	0° $\text{B}$		evening rise	14110 Mar 21 15:32	19° $\Upsilon$ 19'32	
evening rise	14109 Apr 09 12:52	8° $\text{B}$ 01'35			14110 Mar 28 04:32	0° $\text{B}$	
	14109 Apr 23 22:29	0° $\text{II}$			14110 Apr 18 04:45	0° $\text{II}$	
evening max el	14109 May 12 21:51	24° $\text{II}$ 23'20	22°40'15	evening max el	14110 Apr 25 12:09	8° $\text{II}$ 16'22	24°01'25
asc. node	14109 May 21 02:29	0° $\text{S}$ 01'41		retrograde	14110 May 06 15:40	14° $\text{II}$ 48'55	
	14109 May 21 00:01	0° $\text{S}$		asc. node	14110 May 07 23:42	14° $\text{II}$ 41'00	
retrograde	14109 May 22 21:40	0° $\text{S}$ 16'18		evening set	14110 May 12 00:37	12° $\text{II}$ 32'41	
	14109 May 24 17:17	30° $\text{R}$ $\text{II}$		min. Earth dist.	14110 May 16 16:38	7° $\text{II}$ 07'42	0.68691 AU
evening set	14109 May 27 19:03	28° $\text{II}$ 13'04		inferior conj	14110 May 17 11:24	6° $\text{II}$ 03'52	2°32'23
inferior conj	14109 Jun 02 02:23	21° $\text{II}$ 50'13	2°55'40	minimum elong	14110 May 17 09:23	6° $\text{II}$ 10'44	2°31'01
minimum elong	14109 Jun 02 00:54	21° $\text{II}$ 55'22	2°54'25	morning rise	14110 May 22 18:11	0° $\text{II}$ 01'13	
min. Earth dist.	14109 Jun 01 20:14	22° $\text{II}$ 11'37	0.68978 AU		14110 May 22 18:49	30° $\text{R}$ $\text{B}$	
morning rise	14109 Jun 07 06:37	15° $\text{II}$ 39'37		direct	14110 May 26 19:09	28° $\text{B}$ 28'31	
direct	14109 Jun 11 19:53	13° $\text{II}$ 46'30			14110 May 31 03:42	0° $\text{II}$	
morning max el	14109 Jun 20 17:41	18° $\text{II}$ 56'50	21°31'32	morning max el	14110 Jun 03 14:25	2° $\text{II}$ 52'26	20°15'21
desc. node	14109 Jun 23 02:02	21° $\text{II}$ 26'57		desc. node	14110 Jun 09 23:05	10° $\text{II}$ 19'32	
	14109 Jun 29 22:26	0° $\text{S}$			14110 Jun 23 17:25	0° $\text{S}$	
	14109 Jul 20 08:40	0° $\Omega$		morning set	14110 Jul 01 18:05	12° $\text{S}$ 12'24	
morning set	14109 Jul 22 11:42	3° $\Omega$ 20'27		max. Earth dist.	14110 Jul 11 08:53	27° $\text{S}$ 17'02	1.44149 AU
max. Earth dist.	14109 Jul 28 22:59	13° $\Omega$ 45'57	1.42325 AU		14110 Jul 13 01:33	0° $\Omega$	
superior conj	14109 Aug 05 11:05	26° $\Omega$ 24'30	-1°31'45	superior conj	14110 Jul 17 07:52	6° $\Omega$ 55'35	-1°59'23
minimum elong	14109 Aug 05 17:58	26° $\Omega$ 54'12	1°31'35	minimum elong	14110 Jul 17 14:43	7° $\Omega$ 23'44	1°59'48
	14109 Aug 07 12:39	0° $\text{P}$		evening rise	14110 Jul 30 04:12	28° $\Omega$ 38'39	
evening rise	14109 Aug 16 14:40	16° $\text{P}$ 17'36			14110 Jul 30 23:01	0° $\text{P}$	
asc. node	14109 Aug 17 02:41	17° $\text{P}$ 12'13		asc. node	14110 Aug 03 23:18	6° $\text{P}$ 54'47	
	14109 Aug 24 07:34	0° $\text{A}$		evening max el	14110 Aug 16 07:49	25° $\text{P}$ 01'11	18°03'14
evening max el	14109 Sep 01 17:51	11° $\text{A}$ 46'38	18°07'15	retrograde	14110 Aug 22 18:35	28° $\text{P}$ 22'07	
retrograde	14109 Sep 08 16:26	15° $\text{A}$ 19'31		evening set	14110 Aug 25 09:19	27° $\text{P}$ 48'04	
evening set	14109 Sep 10 22:54	14° $\text{A}$ 57'09		inferior conj	14110 Aug 31 19:28	22° $\text{P}$ 37'44	1°28'07
inferior conj	14109 Sep 18 00:47	10° $\text{A}$ 05'49	0°17'03	minimum elong	14110 Aug 31 21:40	22° $\text{P}$ 32'03	1°27'09
minimum elong	14109 Sep 18 01:20	10° $\text{A}$ 04'32	0°16'54	min. Earth dist.	14110 Sep 03 17:15	19° $\text{P}$ 38'19	0.62195 AU
desc. node	14109 Sep 18 22:50	9° $\text{A}$ 15'31		desc. node	14110 Sep 05 20:21	17° $\text{P}$ 40'17	
min. Earth dist.	14109 Sep 21 06:44	7° $\text{A}$ 10'19	0.59902 AU	morning rise	14110 Sep 07 07:38	16° $\text{P}$ 31'24	
morning rise	14109 Sep 25 00:30	4° $\text{A}$ 21'56		direct	14110 Sep 14 00:00	14° $\text{P}$ 08'21	
direct	14109 Oct 01 13:15	2° $\text{A}$ 20'23		morning max el	14110 Sep 28 02:39	22° $\text{P}$ 08'00	27°57'31
morning max el	14109 Oct 15 20:29	10° $\text{A}$ 10'54	27°48'05		14110 Oct 05 00:47	0° $\text{A}$	
	14109 Oct 31 05:28	0° $\text{M}$			14110 Oct 24 09:42	0° $\text{M}$	
asc. node	14109 Nov 13 04:36	22° $\text{M}$ 56'41		asc. node	14110 Oct 31 01:21	12° $\text{M}$ 47'09	
	14109 Nov 16 15:41	0° $\text{J}$		morning set	14110 Nov 01 01:59	14° $\text{M}$ 52'21	
morning set	14109 Nov 17 02:26	0° $\text{J}$ 56'20		max. Earth dist.	14110 Nov 06 11:05	26° $\text{M}$ 15'00	1.31720 AU
max. Earth dist.	14109 Nov 23 06:39	14° $\text{J}$ 21'55	1.31201 AU		14110 Nov 08 04:15	0° $\text{J}$	
superior conj	14109 Nov 24 04:24	16° $\text{J}$ 23'05	1°27'13	superior conj	14110 Nov 08 13:47	0° $\text{J}$ 52'26	1°13'05
minimum elong	14109 Nov 24 02:37	16° $\text{J}$ 13'11	1°28'02	minimum elong	14110 Nov 08 11:32	0° $\text{J}$ 40'05	1°13'37
	14109 Nov 30 07:57	0° $\text{Z}$		evening rise	14110 Nov 15 07:42	15° $\text{J}$ 42'23	
evening rise	14109 Nov 30 21:09	1° $\text{Z}$ 11'20			14110 Nov 22 07:14	0° $\text{Z}$	
desc. node	14109 Dec 15 20:05	29° $\text{Z}$ 20'29		desc. node	14110 Dec 02 17:07	17° $\text{Z}$ 15'33	
	14109 Dec 16 06:13	0° $\approx$		evening max el	14110 Dec 10 12:18	26° $\text{Z}$ 27'00	24°27'07
evening max el	14109 Dec 28 23:15	16° $\approx$ 01'27	25°57'57		14110 Dec 14 20:01	0° $\approx$	
retrograde	14110 Jan 11 21:46	23° $\approx$ 04'36		retrograde	14110 Dec 24 04:49	3° $\approx$ 16'15	
evening set	14110 Jan 18 02:03	21° $\approx$ 34'52		evening set	14110 Dec 29 09:58	2° $\approx$ 16'34	
min. Earth dist.	14110 Jan 22 12:21	18° $\approx$ 57'33	0.57753 AU		14111 Jan 03 01:11	30° $\text{R}$ $\text{Z}$	
inferior conj	14110 Jan 25 12:36	16° $\approx$ 49'35	-4°22'40	min. Earth dist.	14111 Jan 04 00:01	29° $\text{Z}$ 25'53	0.55962 AU
minimum elong	14110 Jan 25 21:27	16° $\approx$ 33'51	4°19'16	inferior conj	14111 Jan 06 07:01	28° $\text{Z}$ 00'40	-5°30'41
morning rise	14110 Feb 02 19:47	12° $\approx$ 27'26		minimum elong	14111 Jan 06 14:18	27° $\text{Z}$ 49'20	5°28'31
direct	14110 Feb 04 20:57	12° $\approx$ 14'01		morning rise	14111 Jan 14 20:37	23° $\text{Z}$ 58'53	
asc. node	14110 Feb 09 03:11	13° $\approx$ 15'38		direct	14111 Jan 17 05:54	23° $\text{Z}$ 43'42	
morning max el	14110 Feb 13 11:06	16° $\approx$ 26'30	18°42'43	asc. node	14111 Jan 27 00:34	28° $\text{Z}$ 19'59	
	14110 Feb 23 00:30	0° $\text{X}$		morning max el	14111 Jan 27 06:24	28° $\text{Z}$ 33'57	19°42'47
morning set	14110 Mar 01 14:26	12° $\text{X}$ 21'58			14111 Jan 28 15:46	0° $\approx$	
superior conj	14110 Mar 10 08:53	29° $\text{X}$ 15'21	0°28'29	morning set	14111 Feb 13 18:12	26° $\approx$ 53'37	
					14111 Feb 15 07:02	0° $\text{X}$	

superior conj	14111 Feb 21 16:12	12° $\text{X}$ 50'17	0°55'46	superior conj	14112 Feb 05 10:47	26° $\approx$ 55'15	1°16'05
minimum elong	14111 Feb 21 18:52	13° $\text{X}$ 03'28	0°55'46	minimum elong	14112 Feb 05 13:17	27° $\approx$ 08'09	1°16'27
max. Earth dist.	14111 Feb 27 21:26	24° $\text{X}$ 44'53	1.37523 AU		14112 Feb 06 22:50	0° $\text{X}$	
desc. node	14111 Feb 28 18:01	26° $\text{X}$ 19'44		max. Earth dist.	14112 Feb 10 07:10	6° $\text{X}$ 42'02	1.35415 AU
	14111 Mar 02 18:36	0° $\text{Y}$		evening rise	14112 Feb 14 07:03	14° $\text{X}$ 21'53	
evening rise	14111 Mar 03 14:35	1° $\text{Y}$ 29'03		desc. node	14112 Feb 15 14:33	16° $\text{X}$ 47'50	
	14111 Mar 21 08:48	0° $\text{Z}$			14112 Feb 23 03:42	0° $\text{Y}$	
evening max el	14111 Apr 08 01:46	22° $\text{Z}$ 10'07	25°18'38		14112 Mar 15 02:35	0° $\text{Z}$	
retrograde	14111 Apr 20 05:25	29° $\text{Z}$ 12'24		evening max el	14112 Mar 20 15:28	5° $\text{Z}$ 59'07	26°24'32
asc. node	14111 Apr 24 21:02	27° $\text{Z}$ 41'08		retrograde	14112 Apr 02 14:01	13° $\text{Z}$ 19'55	
evening set	14111 Apr 26 01:53	26° $\text{Z}$ 46'16		evening set	14112 Apr 08 21:08	10° $\text{Z}$ 48'11	
min. Earth dist.	14111 Apr 30 10:25	21° $\text{Z}$ 57'32	0.67947 AU	asc. node	14112 Apr 10 18:26	9° $\text{Z}$ 03'17	
inferior conj	14111 May 01 17:48	20° $\text{Z}$ 15'39	1°58'41	min. Earth dist.	14112 Apr 12 23:30	6° $\text{Z}$ 34'32	0.66770 AU
minimum elong	14111 May 01 15:39	20° $\text{Z}$ 22'37	1°57'19	inferior conj	14112 Apr 14 19:30	4° $\text{Z}$ 20'56	1°14'00
morning rise	14111 May 07 05:47	14° $\text{Z}$ 22'21		minimum elong	14112 Apr 14 17:48	4° $\text{Z}$ 26'07	1°12'53
direct	14111 May 10 19:09	13° $\text{Z}$ 09'40			14112 Apr 18 19:05	30° $\text{R}$ $\text{Y}$	
morning max el	14111 May 17 18:40	16° $\text{Z}$ 58'24	19°13'18	morning rise	14112 Apr 20 15:25	28° $\text{Y}$ 38'36	
desc. node	14111 May 27 19:59	29° $\text{Z}$ 46'27		direct	14112 Apr 23 18:05	27° $\text{Y}$ 44'10	
	14111 May 27 23:43	0° $\text{II}$			14112 Apr 28 22:14	0° $\text{Z}$	
greatest brilliancy	14111 May 30 14:57	3° $\text{II}$ 52'30	-0.7m	morning max el	14112 Apr 30 05:46	1° $\text{Z}$ 10'50	18°27'20
morning set	14111 Jun 10 21:35	21° $\text{II}$ 02'25		desc. node	14112 May 13 16:46	19° $\text{Z}$ 38'25	
	14111 Jun 16 16:41	0° $\text{S}$			14112 May 20 06:50	0° $\text{II}$	
max. Earth dist.	14111 Jun 24 01:02	11° $\text{S}$ 27'50	1.45374 AU	morning set	14112 May 20 18:55	0° $\text{II}$ 47'38	
superior conj	14111 Jun 27 06:03	16° $\text{S}$ 31'16	-2°13'11	superior conj	14112 Jun 05 14:55	25° $\text{II}$ 37'54	-2°07'31
minimum elong	14111 Jun 27 07:52	16° $\text{S}$ 38'28	2°14'12	minimum elong	14112 Jun 05 09:05	25° $\text{II}$ 15'08	2°08'19
	14111 Jul 05 16:10	0° $\text{Q}$		max. Earth dist.	14112 Jun 05 20:38	26° $\text{II}$ 00'14	1.45878 AU
evening rise	14111 Jul 11 19:44	10° $\text{Q}$ 02'21			14112 Jun 08 10:05	0° $\text{S}$	
asc. node	14111 Jul 21 19:58	26° $\text{Q}$ 19'33		evening rise	14112 Jun 21 10:35	20° $\text{S}$ 24'44	
	14111 Jul 24 05:33	0° $\text{P}$			14112 Jun 27 12:45	0° $\text{Q}$	
evening max el	14111 Jul 30 22:05	8° $\text{P}$ 33'52	18°17'29	greatest brilliancy	14112 Jun 30 11:07	4° $\text{Q}$ 34'32	-0.8m
retrograde	14111 Aug 06 06:53	11° $\text{P}$ 56'52		asc. node	14112 Jul 07 16:44	15° $\text{Q}$ 20'07	
evening set	14111 Aug 09 06:15	11° $\text{P}$ 08'30		evening max el	14112 Jul 13 09:44	22° $\text{Q}$ 17'21	18°49'17
inferior conj	14111 Aug 15 04:15	5° $\text{P}$ 41'15	2°18'13	retrograde	14112 Jul 20 01:37	25° $\text{Q}$ 55'52	
minimum elong	14111 Aug 15 06:40	5° $\text{P}$ 34'17	2°17'04	evening set	14112 Jul 23 09:53	24° $\text{Q}$ 51'30	
min. Earth dist.	14111 Aug 17 13:16	2° $\text{P}$ 57'25	0.64328 AU	inferior conj	14112 Jul 28 23:24	19° $\text{Q}$ 09'17	2°50'14
	14111 Aug 20 11:26	30° $\text{R}$ $\text{Q}$		minimum elong	14112 Jul 29 01:13	19° $\text{Q}$ 03'32	2°49'08
morning rise	14111 Aug 21 05:36	29° $\text{Q}$ 21'59		min. Earth dist.	14112 Jul 30 18:06	16° $\text{Q}$ 55'27	0.66139 AU
desc. node	14111 Aug 23 17:52	27° $\text{Q}$ 44'47		morning rise	14112 Aug 03 15:43	12° $\text{Q}$ 44'42	
direct	14111 Aug 27 19:32	26° $\text{Q}$ 46'06		direct	14112 Aug 09 22:42	10° $\text{Q}$ 05'18	
	14111 Sep 05 01:44	0° $\text{P}$		desc. node	14112 Aug 09 15:20	10° $\text{Q}$ 05'39	
morning max el	14111 Sep 10 12:39	4° $\text{P}$ 44'39	27°30'32	morning max el	14112 Aug 22 24:00	17° $\text{Q}$ 49'58	26°33'58
	14111 Sep 29 16:11	0° $\text{A}$			14112 Sep 02 05:13	0° $\text{P}$	
morning set	14111 Oct 15 17:03	28° $\text{A}$ 22'21			14112 Sep 21 15:03	0° $\text{A}$	
	14111 Oct 16 12:44	0° $\text{M}$		morning set	14112 Sep 27 20:35	11° $\text{A}$ 19'04	
asc. node	14111 Oct 17 22:01	2° $\text{M}$ 47'30		max. Earth dist.	14112 Oct 01 20:18	19° $\text{A}$ 01'39	1.34381 AU
max. Earth dist.	14111 Oct 20 08:30	7° $\text{M}$ 48'32	1.32785 AU	asc. node	14112 Oct 03 18:37	22° $\text{A}$ 53'12	
superior conj	14111 Oct 23 19:10	15° $\text{M}$ 06'48	0°53'11	superior conj	14112 Oct 06 18:11	28° $\text{A}$ 59'49	0°27'42
minimum elong	14111 Oct 23 16:59	14° $\text{M}$ 55'01	0°53'28	minimum elong	14112 Oct 06 16:44	28° $\text{A}$ 52'19	0°27'51
evening rise	14111 Oct 30 18:42	0° $\text{X}$ 12'33			14112 Oct 07 05:46	0° $\text{M}$	
	14111 Oct 30 16:22	0° $\text{X}$		evening rise	14112 Oct 14 04:14	14° $\text{M}$ 36'32	
	14111 Nov 16 08:29	0° $\text{Z}$			14112 Oct 21 22:26	0° $\text{X}$	
desc. node	14111 Nov 19 14:16	4° $\text{Z}$ 00'02		evening max el	14112 Nov 02 14:30	16° $\text{X}$ 38'27	21°08'20
evening max el	14111 Nov 21 22:14	6° $\text{Z}$ 27'07	22°44'43	desc. node	14112 Nov 05 11:32	19° $\text{X}$ 09'01	
retrograde	14111 Dec 04 22:58	12° $\text{Z}$ 54'59		retrograde	14112 Nov 14 09:52	22° $\text{X}$ 30'24	
evening set	14111 Dec 08 20:24	12° $\text{Z}$ 21'57		evening set	14112 Nov 17 00:54	22° $\text{X}$ 14'12	
min. Earth dist.	14111 Dec 16 06:43	8° $\text{Z}$ 58'59	0.54794 AU	inferior conj	14112 Nov 25 22:15	18° $\text{X}$ 21'11	-5°27'25
inferior conj	14111 Dec 17 07:02	8° $\text{Z}$ 24'31	-5°58'32	minimum elong	14112 Nov 25 13:54	18° $\text{X}$ 32'58	5°24'53
minimum elong	14111 Dec 17 06:52	8° $\text{Z}$ 24'45	5°57'28	min. Earth dist.	14112 Nov 26 12:28	18° $\text{X}$ 01'04	0.54484 AU
morning rise	14111 Dec 25 18:42	4° $\text{Z}$ 36'24		morning rise	14112 Dec 04 03:24	14° $\text{X}$ 30'12	
direct	14111 Dec 28 21:22	4° $\text{Z}$ 14'09		direct	14112 Dec 08 04:35	13° $\text{X}$ 54'58	
morning max el	14112 Jan 09 11:19	9° $\text{Z}$ 46'49	21°06'00	morning max el	14112 Dec 21 03:04	20° $\text{X}$ 09'40	22°48'21
asc. node	14112 Jan 13 21:52	14° $\text{Z}$ 46'58			14112 Dec 29 06:28	0° $\text{Z}$	
	14112 Jan 23 07:53	0° $\approx$		asc. node	14112 Dec 30 19:05	2° $\text{Z}$ 18'05	
morning set	14112 Jan 29 02:53	11° $\approx$ 36'05		morning set	14113 Jan 12 14:09	26° $\text{Z}$ 21'35	
					14113 Jan 14 07:01	0° $\approx$	

superior conj	14113 Jan 19 13:15	11° $\approx$ 19'45	1°29'38	asc. node	14113 Dec 17 16:13	20° $\approx$ 38'13	
minimum elong	14113 Jan 19 15:00	11° $\approx$ 29'04	1°30'22		14113 Dec 22 17:20	0° $\approx$	
max. Earth dist.	14113 Jan 22 23:24	18° $\approx$ 32'50	1.33636 AU	morning set	14113 Dec 28 02:04	11° $\approx$ 04'47	
evening rise	14113 Jan 27 13:21	27° $\approx$ 48'00					
	14113 Jan 28 16:30	0° $\approx$		superior conj	14114 Jan 03 20:54	25° $\approx$ 56'00	1°36'44
desc. node	14113 Feb 01 11:08	7° $\approx$ 05'32		minimum elong	14114 Jan 03 21:37	25° $\approx$ 59'52	1°37'43
	14113 Feb 15 09:41	0° $\approx$			14114 Jan 05 17:38	0° $\approx$	
evening max el	14113 Mar 03 04:55	19° $\approx$ 34'14	27°11'55	max. Earth dist.	14114 Jan 05 23:10	0° $\approx$ 29'59	1.32303 AU
retrograde	14113 Mar 16 16:46	27° $\approx$ 02'54		evening rise	14114 Jan 11 06:15	11° $\approx$ 39'33	
evening set	14113 Mar 23 08:23	24° $\approx$ 31'26		desc. node	14114 Jan 19 07:48	27° $\approx$ 07'42	
min. Earth dist.	14113 Mar 27 05:52	20° $\approx$ 50'38	0.65189 AU		14114 Jan 20 22:45	0° $\approx$	
asc. node	14113 Mar 28 15:53	19° $\approx$ 16'23			14114 Feb 11 00:06	0° $\approx$	
inferior conj	14113 Mar 29 14:08	18° $\approx$ 13'59	0°17'39	evening max el	14114 Feb 13 16:54	2° $\approx$ 44'30	27°33'41
minimum elong	14113 Mar 29 13:38	18° $\approx$ 15'21	0°17'13	retrograde	14114 Feb 27 12:41	10° $\approx$ 11'40	
morning rise	14113 Apr 04 20:37	12° $\approx$ 44'33		evening set	14114 Mar 06 09:12	7° $\approx$ 47'48	
direct	14113 Apr 07 13:43	12° $\approx$ 05'30		min. Earth dist.	14114 Mar 10 03:43	4° $\approx$ 35'50	0.63274 AU
morning max el	14113 Apr 13 21:38	15° $\approx$ 22'49	17°58'14	inferior conj	14114 Mar 12 22:51	1° $\approx$ 47'43	-0°50'41
	14113 Apr 24 13:04	0° $\approx$		minimum elong	14114 Mar 13 00:30	1° $\approx$ 43'35	0°49'56
desc. node	14113 Apr 30 13:29	9° $\approx$ 48'22			14114 Mar 14 18:58	30° $\approx$ 18'12	
morning set	14113 May 01 20:02	11° $\approx$ 53'56		asc. node	14114 Mar 15 13:23	29° $\approx$ 18'12	
	14113 May 12 23:40	0° $\approx$		morning rise	14114 Mar 19 18:19	26° $\approx$ 33'34	
				direct	14114 Mar 22 03:19	26° $\approx$ 06'23	
superior conj	14113 May 16 03:27	5° $\approx$ 01'03	-1°42'59	morning max el	14114 Mar 28 15:24	29° $\approx$ 25'44	17°46'28
minimum elong	14113 May 15 18:25	4° $\approx$ 25'18	1°43'03		14114 Mar 29 04:58	0° $\approx$	
max. Earth dist.	14113 May 19 16:41	10° $\approx$ 36'31	1.45626 AU	morning set	14114 Apr 13 23:19	24° $\approx$ 15'04	
evening rise	14113 Jun 01 04:54	29° $\approx$ 59'53		desc. node	14114 Apr 17 10:06	0° $\approx$ 10'47	
	14113 Jun 01 04:56	0° $\approx$			14114 Apr 17 07:35	0° $\approx$	
greatest brilliancy	14113 Jun 14 23:58	20° $\approx$ 52'35	-0.6m				
	14113 Jun 21 12:03	0° $\approx$		superior conj	14114 Apr 26 10:19	15° $\approx$ 17'34	-1°06'41
asc. node	14113 Jun 24 13:37	3° $\approx$ 48'02		minimum elong	14114 Apr 26 03:42	14° $\approx$ 50'28	1°06'27
evening max el	14113 Jun 26 16:39	6° $\approx$ 06'02	19°37'38	max. Earth dist.	14114 May 02 10:52	25° $\approx$ 01'23	1.44663 AU
retrograde	14113 Jul 03 23:41	10° $\approx$ 12'22			14114 May 05 14:25	0° $\approx$	
evening set	14113 Jul 07 17:25	8° $\approx$ 51'09		evening rise	14114 May 11 15:51	9° $\approx$ 24'09	
inferior conj	14113 Jul 13 01:45	2° $\approx$ 55'38	3°07'10		14114 May 25 10:03	0° $\approx$	
minimum elong	14113 Jul 13 02:38	2° $\approx$ 52'39	3°06'08	evening max el	14114 Jun 09 17:46	19° $\approx$ 56'00	20°40'32
min. Earth dist.	14113 Jul 14 06:09	1° $\approx$ 21'03	0.67534 AU	asc. node	14114 Jun 11 10:37	21° $\approx$ 31'40	
	14113 Jul 15 07:11	30° $\approx$ 18'12		retrograde	14114 Jun 17 22:40	24° $\approx$ 39'55	
morning rise	14113 Jul 18 11:23	26° $\approx$ 31'14		evening set	14114 Jun 22 02:37	23° $\approx$ 01'43	
direct	14113 Jul 24 08:23	23° $\approx$ 56'57		inferior conj	14114 Jun 27 08:39	16° $\approx$ 54'17	3°11'23
desc. node	14113 Jul 27 12:45	24° $\approx$ 35'02		minimum elong	14114 Jun 27 08:32	16° $\approx$ 54'42	3°10'20
	14113 Aug 04 05:31	0° $\approx$		min. Earth dist.	14114 Jun 27 23:14	16° $\approx$ 03'58	0.68474 AU
morning max el	14113 Aug 05 10:55	1° $\approx$ 12'21	25°16'57	morning rise	14114 Jul 02 14:10	10° $\approx$ 33'43	
	14113 Aug 27 04:56	0° $\approx$		direct	14114 Jul 07 23:26	8° $\approx$ 11'45	
morning set	14113 Sep 10 08:50	23° $\approx$ 34'10		desc. node	14114 Jul 14 10:06	10° $\approx$ 47'06	
	14113 Sep 13 21:15	0° $\approx$		morning max el	14114 Jul 18 21:17	14° $\approx$ 43'10	23°49'11
max. Earth dist.	14113 Sep 13 22:48	0° $\approx$ 07'14	1.36427 AU		14114 Jul 31 08:44	0° $\approx$	
					14114 Aug 20 02:46	0° $\approx$	
superior conj	14113 Sep 20 08:00	12° $\approx$ 25'10	-0°02'48	morning set	14114 Aug 23 01:10	4° $\approx$ 55'28	
minimum elong	14113 Sep 20 08:09	12° $\approx$ 25'59	0°02'38	max. Earth dist.	14114 Aug 26 20:35	11° $\approx$ 31'02	1.38752 AU
behind sun begin	14113 Sep 20 01:50	11° $\approx$ 54'39					
behind sun end	14113 Sep 20 14:29	12° $\approx$ 57'24		superior conj	14114 Sep 03 08:56	25° $\approx$ 13'27	-0°36'59
asc. node	14113 Sep 20 15:11	13° $\approx$ 00'56		minimum elong	14114 Sep 03 11:34	25° $\approx$ 25'55	0°36'43
evening rise	14113 Sep 28 10:09	28° $\approx$ 49'17			14114 Sep 05 21:08	0° $\approx$	
	14113 Sep 29 00:04	0° $\approx$		asc. node	14114 Sep 07 11:43	3° $\approx$ 06'21	
evening max el	14113 Oct 15 20:23	27° $\approx$ 32'14	19°49'52	evening rise	14114 Sep 12 09:42	12° $\approx$ 43'13	
	14113 Oct 18 17:02	0° $\approx$			14114 Sep 21 18:20	0° $\approx$	
desc. node	14113 Oct 23 08:54	2° $\approx$ 16'36		evening max el	14114 Sep 28 16:10	9° $\approx$ 15'32	18°53'15
retrograde	14113 Oct 26 00:43	2° $\approx$ 36'50		retrograde	14114 Oct 07 06:41	13° $\approx$ 34'58	
evening set	14113 Oct 27 23:38	2° $\approx$ 26'27		evening set	14114 Oct 09 03:50	13° $\approx$ 23'22	
	14113 Nov 03 04:05	30° $\approx$ 18'12		desc. node	14114 Oct 10 06:21	13° $\approx$ 06'17	
inferior conj	14113 Nov 05 19:25	28° $\approx$ 25'31	-4°03'33	inferior conj	14114 Oct 17 10:07	9° $\approx$ 04'46	-2°16'16
minimum elong	14113 Nov 05 09:42	28° $\approx$ 40'29	3°59'37	minimum elong	14114 Oct 17 04:25	9° $\approx$ 14'54	2°13'27
min. Earth dist.	14113 Nov 07 20:45	27° $\approx$ 09'33	0.55124 AU	min. Earth dist.	14114 Oct 20 09:40	6° $\approx$ 58'15	0.56593 AU
morning rise	14113 Nov 13 18:14	24° $\approx$ 11'14		morning rise	14114 Oct 25 01:55	4° $\approx$ 15'05	
direct	14113 Nov 18 17:46	23° $\approx$ 16'37		direct	14114 Oct 30 20:22	2° $\approx$ 55'42	
	14113 Dec 02 09:29	0° $\approx$		morning max el	14114 Nov 14 00:41	10° $\approx$ 14'33	26°15'19
morning max el	14113 Dec 02 12:41	0° $\approx$ 07'34	24°37'31		14114 Nov 29 01:59	0° $\approx$	



asc. node	14114 Dec 04 13:13	9°♊34'55			14115 Nov 21 22:42	0°♊	
morning set	14114 Dec 12 12:55	25°♊41'08		morning set	14115 Nov 26 20:55	10°♊05'48	
	14114 Dec 14 12:36	0°♊					
superior conj	14114 Dec 19 07:31	10°♊37'39	1°37'42	superior conj	14115 Dec 03 19:06	25°♊18'36	1°32'43
minimum elong	14114 Dec 19 07:09	10°♊35'34	1°38'44	minimum elong	14115 Dec 03 17:45	25°♊11'08	1°33'40
max. Earth dist.	14114 Dec 20 04:49	12°♊36'07	1.31467 AU	max. Earth dist.	14115 Dec 03 13:07	24°♊45'11	1.31150 AU
evening rise	14114 Dec 26 06:58	25°♊49'46		evening rise	14115 Dec 05 21:27	0°♊	
	14114 Dec 28 07:17	0°♊			14115 Dec 10 13:05	10°♊12'07	
desc. node	14115 Jan 06 04:34	16°♊48'02		desc. node	14115 Dec 20 14:01	0°♊	
	14115 Jan 14 11:09	0°♊			14115 Dec 24 01:26	5°♊57'24	
evening max el	14115 Jan 27 01:14	15°♊17'48	27°23'43	evening max el	14116 Jan 09 02:59	27°♊01'39	26°38'47
retrograde	14115 Feb 10 00:22	22°♊36'57		retrograde	14116 Jan 12 14:42	0°♊	
evening set	14115 Feb 16 20:42	20°♊28'36		evening set	14116 Jan 23 02:08	4°♊10'19	
min. Earth dist.	14115 Feb 20 15:37	17°♊38'59	0.61141 AU		14116 Jan 29 15:09	2°♊24'41	
inferior conj	14115 Feb 23 18:21	14°♊53'50	-2°09'46	min. Earth dist.	14116 Feb 02 09:50	30°♊	
minimum elong	14115 Feb 23 22:59	14°♊43'31	2°07'32	inferior conj	14116 Feb 02 16:45	29°♊47'17	0.58953 AU
asc. node	14115 Mar 02 10:53	10°♊12'44		minimum elong	14116 Feb 05 20:51	27°♊21'11	-3°34'57
morning rise	14115 Mar 03 04:22	9°♊57'49		morning rise	14116 Feb 06 04:37	27°♊06'13	3°31'37
direct	14115 Mar 05 07:25	9°♊38'45		direct	14116 Feb 13 21:11	22°♊46'16	
morning max el	14115 Mar 12 07:49	13°♊10'35	17°52'46	asc. node	14116 Feb 15 21:41	22°♊31'44	
	14115 Mar 23 17:53	0°♊		morning max el	14116 Feb 17 08:21	22°♊39'28	
morning set	14115 Mar 27 22:52	7°♊33'13			14116 Feb 23 19:12	26°♊26'10	18°18'29
desc. node	14115 Apr 04 06:40	20°♊41'27		morning set	14116 Feb 26 21:41	0°♊	
					14116 Mar 10 12:43	21°♊29'34	
superior conj	14115 Apr 07 17:09	26°♊40'55	-0°27'07		14116 Mar 15 00:33	0°♊	
minimum elong	14115 Apr 07 14:41	26°♊30'18	0°27'06	superior conj	14116 Mar 19 22:13	9°♊04'52	0°09'46
	14115 Apr 09 15:40	0°♊		minimum elong	14116 Mar 19 22:56	9°♊08'07	0°09'34
max. Earth dist.	14115 Apr 15 01:42	9°♊02'06	1.43089 AU	behind sun begin	14116 Mar 19 17:00	8°♊41'04	
evening rise	14115 Apr 21 11:36	19°♊18'43		behind sun end	14116 Mar 20 04:53	9°♊35'08	
	14115 Apr 28 10:17	0°♊		desc. node	14116 Mar 21 03:10	11°♊15'48	
	14115 May 20 02:12	0°♊		max. Earth dist.	14116 Mar 27 12:06	22°♊25'29	1.41063 AU
evening max el	14115 May 23 13:25	3°♊46'57	21°54'30	evening rise	14116 Apr 01 01:56	0°♊03'46	
asc. node	14115 May 29 07:43	8°♊17'19			14116 Apr 01 01:01	0°♊	
retrograde	14115 Jun 01 20:45	9°♊13'58			14116 Apr 20 21:26	0°♊	
evening set	14115 Jun 06 11:41	7°♊19'25		evening max el	14116 May 05 05:01	17°♊38'27	23°14'45
inferior conj	14115 Jun 11 17:55	1°♊01'45	3°04'24	asc. node	14116 May 15 04:55	23°♊47'29	
minimum elong	14115 Jun 11 16:53	1°♊05'23	3°03'15	retrograde	14116 May 15 16:33	23°♊48'32	
min. Earth dist.	14115 Jun 11 19:14	0°♊57'12	0.68940 AU	evening set	14116 May 20 18:58	21°♊39'16	
	14115 Jun 12 11:40	30°♊		min. Earth dist.	14116 May 25 15:58	15°♊53'37	0.68920 AU
morning rise	14115 Jun 16 21:53	24°♊47'12		inferior conj	14116 May 26 03:33	15°♊13'36	2°47'02
direct	14115 Jun 21 18:35	22°♊42'37		minimum elong	14116 May 26 01:48	15°♊19'38	2°45'44
desc. node	14115 Jul 01 07:20	28°♊16'56		morning rise	14116 May 31 08:34	9°♊06'30	
morning max el	14115 Jul 01 09:20	28°♊21'56	22°20'08	direct	14116 Jun 04 16:36	7°♊22'02	
	14115 Jul 02 22:51	0°♊		morning max el	14116 Jun 13 02:17	12°♊10'59	20°57'39
	14115 Jul 25 00:16	0°♊		desc. node	14116 Jun 17 04:26	16°♊43'33	
morning set	14115 Aug 03 17:36	15°♊13'42			14116 Jun 27 01:56	0°♊	
max. Earth dist.	14115 Aug 08 20:49	23°♊41'35	1.41097 AU	morning set	14116 Jul 13 10:11	24°♊30'50	
	14115 Aug 12 13:39	0°♊			14116 Jul 16 21:56	0°♊	
superior conj	14115 Aug 16 16:46	7°♊15'05	-1°12'24	max. Earth dist.	14116 Jul 21 03:27	6°♊46'54	1.43171 AU
minimum elong	14115 Aug 16 22:18	7°♊39'48	1°12'07	superior conj	14116 Jul 28 03:10	18°♊20'31	-1°44'41
asc. node	14115 Aug 25 08:16	23°♊06'08		minimum elong	14116 Jul 28 10:31	18°♊51'37	1°44'43
evening rise	14115 Aug 26 23:35	26°♊10'02			14116 Aug 03 21:38	0°♊	
	14115 Aug 29 00:51	0°♊		evening rise	14116 Aug 08 23:29	8°♊59'07	
evening max el	14115 Sep 11 22:15	21°♊41'56	18°18'08	asc. node	14116 Aug 11 04:51	12°♊56'27	
retrograde	14115 Sep 19 08:09	25°♊27'48			14116 Aug 21 12:58	0°♊	
evening set	14115 Sep 21 10:30	25°♊10'23		evening max el	14116 Aug 25 10:26	4°♊41'39	18°03'09
desc. node	14115 Sep 27 03:51	21°♊57'07		retrograde	14116 Sep 01 02:45	8°♊07'57	
inferior conj	14115 Sep 28 22:37	20°♊30'28	-0°33'45	evening set	14116 Sep 03 12:38	7°♊40'59	
minimum elong	14115 Sep 28 21:22	20°♊33'03	0°32'59	inferior conj	14116 Sep 10 07:24	2°♊40'56	0°49'54
min. Earth dist.	14115 Oct 02 05:33	17°♊47'25	0.58617 AU	minimum elong	14116 Sep 10 08:53	2°♊37'24	0°49'19
morning rise	14115 Oct 06 04:49	15°♊04'31		desc. node	14116 Sep 13 01:22	0°♊02'31	
direct	14115 Oct 12 12:38	13°♊18'12			14116 Sep 13 02:27	30°♊	
morning max el	14115 Oct 26 20:02	20°♊58'12	27°24'55	min. Earth dist.	14116 Sep 13 10:31	29°♊41'22	0.60884 AU
	14115 Nov 03 16:26	0°♊		morning rise	14116 Sep 17 02:12	26°♊46'07	
asc. node	14115 Nov 21 10:06	28°♊58'19		direct	14116 Sep 23 17:05	24°♊34'55	

	14116 Oct 05 06:03	0°♄		direct	14117 Sep 06 07:50	6°♄44'43	
morning max el	14116 Oct 07 23:08	2°♄30'07	27°56'55	morning max el	14117 Sep 20 07:29	14°♄46'11	27°50'09
	14116 Oct 28 03:35	0°♄			14117 Oct 02 17:09	0°♄	
asc. node	14116 Nov 07 06:53	18°♄40'52			14117 Oct 20 18:34	0°♄	
morning set	14116 Nov 10 00:11	24°♄14'18		morning set	14117 Oct 24 20:29	8°♄00'15	
	14116 Nov 12 17:29	0°♄		asc. node	14117 Oct 25 03:34	8°♄36'02	
max. Earth dist.	14116 Nov 15 20:13	6°♄47'48	1.31358 AU	max. Earth dist.	14117 Oct 29 22:04	18°♄33'03	1.32107 AU
superior conj	14116 Nov 17 05:50	9°♄53'55	1°21'55	superior conj	14117 Nov 01 13:46	24°♄17'27	1°05'19
minimum elong	14116 Nov 17 03:48	9°♄42'40	1°22'38	minimum elong	14117 Nov 01 11:28	24°♄04'56	1°05'45
evening rise	14116 Nov 23 22:35	24°♄41'36			14117 Nov 04 04:17	0°♄	
	14116 Nov 26 10:30	0°♄		evening rise	14117 Nov 08 09:33	9°♄12'31	
desc. node	14116 Dec 09 22:24	24°♄24'12			14117 Nov 18 23:12	0°♄	
	14116 Dec 13 21:47	0°♄		desc. node	14117 Nov 26 19:29	11°♄51'48	
evening max el	14116 Dec 20 20:09	7°♄52'23	25°21'46	evening max el	14117 Dec 02 06:39	18°♄02'02	23°43'46
retrograde	14117 Jan 03 16:35	14°♄50'14		retrograde	14117 Dec 15 18:22	24°♄44'27	
evening set	14117 Jan 09 12:36	13°♄32'50		evening set	14117 Dec 20 10:32	23°♄56'56	
min. Earth dist.	14117 Jan 14 08:23	10°♄52'24	0.56935 AU	min. Earth dist.	14117 Dec 26 17:34	20°♄54'34	0.55370 AU
inferior conj	14117 Jan 17 03:14	9°♄01'02	-4°54'48	inferior conj	14117 Dec 28 13:03	19°♄50'07	-5°48'55
minimum elong	14117 Jan 17 12:06	8°♄46'13	4°51'45	minimum elong	14117 Dec 28 17:48	19°♄43'03	5°47'26
morning rise	14117 Jan 25 14:11	4°♄48'18		morning rise	14118 Jan 06 02:49	15°♄55'37	
direct	14117 Jan 27 17:46	4°♄34'41		direct	14118 Jan 08 18:10	15°♄38'19	
asc. node	14117 Feb 03 05:45	6°♄48'41		morning max el	14118 Jan 19 11:03	20°♄46'32	20°15'31
morning max el	14117 Feb 05 21:34	9°♄01'47	19°05'31	asc. node	14118 Jan 21 03:05	22°♄29'59	
	14117 Feb 19 12:37	0°♄			14118 Jan 26 17:56	0°♄	
morning set	14117 Feb 22 12:24	5°♄50'58		morning set	14118 Feb 06 18:32	20°♄27'32	
					14118 Feb 11 09:50	0°♄	
superior conj	14117 Mar 02 21:17	22°♄17'34	0°40'53	superior conj	14118 Feb 14 09:51	6°♄06'21	1°05'13
minimum elong	14117 Mar 02 23:38	22°♄28'48	0°40'46	minimum elong	14118 Feb 14 12:33	6°♄19'55	1°05'23
	14117 Mar 06 23:34	0°♄		max. Earth dist.	14118 Feb 20 01:25	17°♄10'14	1.36588 AU
desc. node	14117 Mar 07 23:39	1°♄50'31		desc. node	14118 Feb 22 20:09	22°♄22'02	
max. Earth dist.	14117 Mar 09 18:41	5°♄05'04	1.38813 AU	evening rise	14118 Feb 23 20:18	24°♄12'18	
evening rise	14117 Mar 13 13:26	11°♄43'32			14118 Feb 27 02:29	0°♄	
	14117 Mar 24 19:18	0°♄			14118 Mar 18 10:45	0°♄	
	14117 Apr 16 07:04	0°♄		evening max el	14118 Mar 31 08:05	15°♄22'49	25°48'35
evening max el	14117 Apr 17 18:37	1°♄30'50	24°35'07	retrograde	14118 Apr 12 20:49	22°♄35'20	
retrograde	14117 Apr 29 08:54	8°♄17'47		evening set	14118 Apr 18 21:53	20°♄06'09	
asc. node	14117 May 02 02:12	7°♄45'27		asc. node	14118 Apr 18 23:34	20°♄02'35	
evening set	14117 May 04 22:54	5°♄56'33		min. Earth dist.	14118 Apr 23 03:34	15°♄32'25	0.67486 AU
min. Earth dist.	14117 May 09 11:26	0°♄47'18	0.68427 AU	inferior conj	14118 Apr 24 16:21	13°♄35'57	1°41'09
inferior conj	14117 May 10 11:40	29°♄26'17	2°19'24	minimum elong	14118 Apr 24 14:19	13°♄42'25	1°39'50
minimum elong	14117 May 10 09:32	29°♄33'25	2°18'00	morning rise	14118 Apr 30 07:22	7°♄47'03	
	14117 May 10 01:36	30°♄8		direct	14118 May 03 15:57	6°♄42'34	
morning rise	14117 May 15 20:21	23°♄27'38		morning max el	14118 May 10 09:39	10°♄20'46	18°51'45
direct	14117 May 19 16:12	22°♄03'49		desc. node	14118 May 21 22:16	25°♄30'17	
morning max el	14117 May 27 02:16	26°♄11'17	19°47'08	greatest brilliancy	14118 May 24 01:07	28°♄42'15	-0.8m
	14117 May 30 13:06	0°♄			14118 May 24 21:30	0°♄	
desc. node	14117 Jun 04 01:25	5°♄51'41		morning set	14118 Jun 01 21:40	12°♄22'10	
greatest brilliancy	14117 Jun 09 02:55	13°♄03'17	-0.6m		14118 Jun 13 05:38	0°♄	
	14117 Jun 20 09:54	0°♄		max. Earth dist.	14118 Jun 16 09:36	4°♄56'32	1.45670 AU
morning set	14117 Jun 22 12:43	3°♄14'39		superior conj	14118 Jun 18 04:43	7°♄45'18	-2°13'19
max. Earth dist.	14117 Jul 03 16:11	20°♄36'20	1.44747 AU	minimum elong	14118 Jun 18 03:11	7°♄39'20	2°14'22
superior conj	14117 Jul 08 13:47	28°♄25'56	-2°07'21		14118 Jul 02 04:55	0°♄	
minimum elong	14117 Jul 08 19:10	28°♄47'37	2°08'04	evening rise	14118 Jul 03 09:24	1°♄54'43	
	14117 Jul 09 13:05	0°♄		asc. node	14118 Jul 15 22:13	21°♄48'02	
evening rise	14117 Jul 22 04:17	20°♄57'15			14118 Jul 21 23:51	0°♄	
	14117 Jul 27 12:54	0°♄		evening max el	14118 Jul 23 14:25	1°♄43'23	18°28'57
asc. node	14117 Jul 29 01:29	2°♄32'12		retrograde	14118 Jul 30 01:16	5°♄11'23	
evening max el	14117 Aug 09 00:52	18°♄04'40	18°07'03	evening set	14118 Aug 02 04:18	4°♄16'31	
retrograde	14117 Aug 15 09:51	21°♄25'11			14118 Aug 06 20:17	30°♄8	
evening set	14117 Aug 18 04:05	20°♄45'29		inferior conj	14118 Aug 07 22:18	28°♄43'00	2°33'46
inferior conj	14117 Aug 24 08:38	15°♄27'42	1°51'47	minimum elong	14118 Aug 08 00:32	28°♄36'18	2°32'38
minimum elong	14117 Aug 24 11:03	15°♄21'06	1°50'41	min. Earth dist.	14118 Aug 10 01:25	26°♄10'08	0.65144 AU
min. Earth dist.	14117 Aug 27 01:19	12°♄32'35	0.63129 AU	morning rise	14118 Aug 13 19:33	22°♄20'36	
morning rise	14117 Aug 30 15:59	9°♄14'25		desc. node	14118 Aug 17 20:25	20°♄03'28	
desc. node	14117 Aug 30 22:55	9°♄01'40					

direct	14118 Aug 20 07:06	19° $\Omega$ 41'43		min. Earth dist.	14119 Jul 24 09:28	10° $\Omega$ 21'08	0.66790 AU
morning max el	14118 Sep 02 18:16	27° $\Omega$ 36'38	27°09'28	morning rise	14119 Jul 28 10:04	5° $\Omega$ 54'19	
	14118 Sep 05 00:36	0° $\mathbb{N}$		direct	14119 Aug 03 13:14	3° $\Omega$ 16'00	
	14118 Sep 26 10:19	0° $\underline{\Omega}$		desc. node	14119 Aug 04 17:53	3° $\Omega$ 21'20	
morning set	14118 Oct 08 07:06	21° $\underline{\Omega}$ 17'25		morning max el	14119 Aug 16 05:21	10° $\Omega$ 49'30	26°03'06
asc. node	14118 Oct 12 00:12	28° $\underline{\Omega}$ 39'18			14119 Aug 31 11:38	0° $\mathbb{N}$	
max. Earth dist.	14118 Oct 12 15:20	29° $\underline{\Omega}$ 56'15	1.33404 AU		14119 Sep 19 00:34	0° $\underline{\Omega}$	
	14118 Oct 12 16:04	0° $\mathbb{M}$		morning set	14119 Sep 21 04:40	3° $\underline{\Omega}$ 57'42	
				max. Earth dist.	14119 Sep 24 22:47	11° $\underline{\Omega}$ 03'19	1.35208 AU
superior conj	14118 Oct 16 16:48	8° $\mathbb{M}$ 23'54	0°43'02	asc. node	14119 Sep 28 20:48	18° $\underline{\Omega}$ 46'33	
minimum elong	14118 Oct 16 14:50	8° $\mathbb{M}$ 13'27	0°43'15				
evening rise	14118 Oct 23 20:10	23° $\mathbb{M}$ 40'39		superior conj	14119 Sep 30 12:21	22° $\underline{\Omega}$ 06'41	0°15'21
	14118 Oct 26 20:48	0° $\mathbb{N}$		minimum elong	14119 Sep 30 11:29	22° $\underline{\Omega}$ 02'14	0°15'29
desc. node	14118 Nov 13 16:41	27° $\mathbb{N}$ 59'06		behind sun begin	14119 Sep 30 09:48	21° $\underline{\Omega}$ 53'42	
evening max el	14118 Nov 13 18:14	28° $\mathbb{N}$ 02'53	22°02'02	behind sun end	14119 Sep 30 13:09	22° $\underline{\Omega}$ 10'46	
	14118 Nov 15 22:21	0° $\mathbb{Z}$			14119 Oct 04 08:06	0° $\mathbb{M}$	
retrograde	14118 Nov 26 08:19	4° $\mathbb{Z}$ 16'55		evening rise	14119 Oct 08 04:29	8° $\mathbb{M}$ 01'01	
evening set	14118 Nov 29 15:30	3° $\mathbb{Z}$ 52'45			14119 Oct 19 23:22	0° $\mathbb{N}$	
inferior conj	14118 Dec 08 07:46	29° $\mathbb{N}$ 59'07	-5°52'52	evening max el	14119 Oct 26 16:02	8° $\mathbb{N}$ 31'04	20°32'23
minimum elong	14118 Dec 08 03:38	0° $\mathbb{Z}$ 04'54	5°51'28	desc. node	14119 Oct 31 14:00	12° $\mathbb{N}$ 20'21	
min. Earth dist.	14118 Dec 07 23:46	0° $\mathbb{Z}$ 10'19	0.54551 AU	retrograde	14119 Nov 06 18:58	14° $\mathbb{N}$ 02'53	
	14118 Dec 08 07:08	30° $\mathbb{R}$ 27		evening set	14119 Nov 09 01:20	13° $\mathbb{N}$ 50'09	
morning rise	14118 Dec 16 16:45	26° $\mathbb{N}$ 11'48		inferior conj	14119 Nov 17 23:48	9° $\mathbb{N}$ 55'23	-4°56'47
direct	14118 Dec 20 04:48	25° $\mathbb{N}$ 44'38		minimum elong	14119 Nov 17 13:55	10° $\mathbb{N}$ 09'42	4°53'25
	14118 Dec 30 14:11	0° $\mathbb{Z}$		min. Earth dist.	14119 Nov 19 06:07	9° $\mathbb{N}$ 11'26	0.54650 AU
morning max el	14119 Jan 01 09:51	1° $\mathbb{Z}$ 36'21	21°47'40	morning rise	14119 Nov 26 02:13	5° $\mathbb{N}$ 57'05	
asc. node	14119 Jan 08 00:21	9° $\mathbb{Z}$ 26'16		direct	14119 Nov 30 13:32	5° $\mathbb{N}$ 14'08	
	14119 Jan 19 16:26	0° $\approx$		morning max el	14119 Dec 13 21:45	11° $\mathbb{N}$ 44'37	23°34'53
morning set	14119 Jan 22 04:33	5° $\approx$ 11'38		asc. node	14119 Dec 25 21:32	27° $\mathbb{N}$ 20'33	
					14119 Dec 27 11:28	0° $\mathbb{Z}$	
superior conj	14119 Jan 29 08:08	20° $\approx$ 20'22	1°22'39	morning set	14120 Jan 06 16:22	19° $\mathbb{Z}$ 57'35	
minimum elong	14119 Jan 29 10:22	20° $\approx$ 32'03	1°23'10		14120 Jan 11 07:34	0° $\approx$	
max. Earth dist.	14119 Feb 02 13:29	29° $\approx$ 01'53	1.34609 AU				
	14119 Feb 03 01:03	0° $\mathbb{X}$		superior conj	14120 Jan 13 13:09	4° $\approx$ 51'14	1°33'25
evening rise	14119 Feb 06 19:07	7° $\mathbb{X}$ 20'29		minimum elong	14120 Jan 13 14:28	4° $\approx$ 58'23	1°34'15
desc. node	14119 Feb 09 16:41	12° $\mathbb{X}$ 46'09		max. Earth dist.	14120 Jan 16 09:22	10° $\approx$ 56'46	1.33018 AU
	14119 Feb 19 18:24	0° $\mathbb{Y}$		evening rise	14120 Jan 21 06:23	20° $\approx$ 59'14	
evening max el	14119 Mar 13 21:56	29° $\mathbb{Y}$ 07'36	26°47'36		14120 Jan 25 22:30	0° $\mathbb{X}$	
	14119 Mar 14 20:01	0° $\mathbb{B}$		desc. node	14120 Jan 27 13:19	2° $\mathbb{X}$ 58'29	
retrograde	14119 Mar 27 03:04	6° $\mathbb{B}$ 33'02			14120 Feb 13 16:13	0° $\mathbb{Y}$	
evening set	14119 Apr 02 13:58	4° $\mathbb{B}$ 00'56		evening max el	14120 Feb 24 11:13	12° $\mathbb{Y}$ 34'42	27°24'43
asc. node	14119 Apr 05 21:02	0° $\mathbb{B}$ 49'47		retrograde	14120 Mar 09 02:48	20° $\mathbb{Y}$ 02'45	
min. Earth dist.	14119 Apr 06 14:11	0° $\mathbb{B}$ 01'20	0.66133 AU	evening set	14120 Mar 15 21:05	17° $\mathbb{Y}$ 33'51	
	14119 Apr 06 14:39	30° $\mathbb{R}$ 17		min. Earth dist.	14120 Mar 19 17:08	14° $\mathbb{Y}$ 05'51	0.64414 AU
inferior conj	14119 Apr 08 15:23	27° $\mathbb{Y}$ 36'55	0°51'34	inferior conj	14120 Mar 22 06:11	11° $\mathbb{Y}$ 23'04	-0°09'53
minimum elong	14119 Apr 08 14:05	27° $\mathbb{Y}$ 40'43	0°50'42	minimum elong	14120 Mar 22 06:29	11° $\mathbb{Y}$ 22'16	0°09'52
morning rise	14119 Apr 14 15:26	21° $\mathbb{Y}$ 59'29		transit middle	14120 Mar 22 06:29	11° $\mathbb{Y}$ 22'16	0°09'52
direct	14119 Apr 17 13:52	21° $\mathbb{Y}$ 11'58		transit begin	14120 Mar 22 04:03	11° $\mathbb{Y}$ 28'47	
morning max el	14119 Apr 23 23:01	24° $\mathbb{Y}$ 33'26	18°12'52	transit end	14120 Mar 22 08:55	11° $\mathbb{Y}$ 15'46	
	14119 Apr 28 13:31	0° $\mathbb{B}$		asc. node	14120 Mar 22 18:30	10° $\mathbb{Y}$ 50'16	
desc. node	14119 May 08 19:01	15° $\mathbb{B}$ 30'33		morning rise	14120 Mar 28 17:54	5° $\mathbb{Y}$ 59'37	
morning set	14119 May 13 06:26	22° $\mathbb{B}$ 40'50		direct	14120 Mar 31 07:29	5° $\mathbb{Y}$ 25'54	
	14119 May 17 20:15	0° $\mathbb{I}$		morning max el	14120 Apr 06 16:01	8° $\mathbb{Y}$ 42'30	17°51'04
					14120 Apr 21 04:58	0° $\mathbb{B}$	
superior conj	14119 May 28 12:54	16° $\mathbb{I}$ 52'58	-1°59'08	morning set	14120 Apr 23 19:18	4° $\mathbb{B}$ 21'06	
minimum elong	14119 May 28 04:53	16° $\mathbb{I}$ 21'34	1°59'35	desc. node	14120 Apr 24 15:42	5° $\mathbb{B}$ 46'32	
max. Earth dist.	14119 May 30 05:37	19° $\mathbb{I}$ 32'07	1.45860 AU				
	14119 Jun 05 22:51	0° $\mathbb{E}$		superior conj	14120 May 07 07:50	26° $\mathbb{B}$ 34'56	-1°28'29
evening rise	14119 Jun 13 14:22	11° $\mathbb{E}$ 53'15		minimum elong	14120 May 06 23:21	26° $\mathbb{B}$ 00'55	1°28'20
greatest brilliancy	14119 Jun 24 20:16	29° $\mathbb{E}$ 14'23	-0.7m		14120 May 09 11:13	0° $\mathbb{I}$	
	14119 Jun 25 08:22	0° $\Omega$		max. Earth dist.	14120 May 12 01:37	4° $\mathbb{I}$ 06'58	1.45305 AU
asc. node	14119 Jul 02 19:04	10° $\Omega$ 35'55		evening rise	14120 May 23 03:33	21° $\mathbb{I}$ 18'35	
evening max el	14119 Jul 07 00:22	15° $\Omega$ 29'58	19°08'00		14120 May 28 20:40	0° $\mathbb{E}$	
retrograde	14119 Jul 13 21:37	19° $\Omega$ 18'29		greatest brilliancy	14120 Jun 07 02:07	13° $\mathbb{E}$ 42'18	-0.6m
evening set	14119 Jul 17 09:55	18° $\Omega$ 06'57		asc. node	14120 Jun 18 16:00	28° $\mathbb{E}$ 46'22	
inferior conj	14119 Jul 22 20:52	12° $\Omega$ 19'07	2°59'02	evening max el	14120 Jun 19 04:53	29° $\mathbb{E}$ 19'16	20°02'47
minimum elong	14119 Jul 22 22:19	12° $\Omega$ 14'25	2°58'00		14120 Jun 19 21:39	0° $\Omega$	

retrograde	14120 Jun 26 20:18	3°♎40'16		asc. node	14121 Jun 05 13:01	16°♏07'13	
evening set	14120 Jun 30 18:24	2°♎11'33		retrograde	14121 Jun 10 19:11	18°♏11'20	
	14120 Jul 03 01:31	30°♏		evening set	14121 Jun 15 03:44	16°♏25'53	
inferior conj	14120 Jul 06 01:25	26°♏10'43	3°10'22	inferior conj	14121 Jun 20 09:33	10°♏13'36	3°09'44
minimum elong	14120 Jul 06 01:52	26°♏09'09	3°09'21	minimum elong	14121 Jun 20 09:01	10°♏15'26	3°08'40
min. Earth dist.	14120 Jul 06 23:47	24°♏54'53	0.67994 AU	min. Earth dist.	14121 Jun 20 18:20	9°♏43'01	0.68724 AU
morning rise	14120 Jul 11 09:00	19°♏47'50		morning rise	14121 Jun 25 14:05	3°♏55'22	
direct	14120 Jul 17 01:09	17°♏18'16		direct	14121 Jun 30 17:55	1°♏40'36	
desc. node	14120 Jul 21 15:17	18°♏37'20		desc. node	14121 Jul 08 12:35	5°♏25'23	
morning max el	14120 Jul 28 15:54	24°♏15'46	24°40'25	morning max el	14121 Jul 11 02:50	7°♏50'40	23°11'04
	14120 Aug 02 19:19	0°♎			14121 Jul 28 10:13	0°♎	
	14120 Aug 23 21:37	0°♎		morning set	14121 Aug 14 15:37	26°♎46'53	
morning set	14120 Sep 02 08:59	15°♎50'57			14121 Aug 16 13:40	0°♎	
max. Earth dist.	14120 Sep 05 22:55	22°♎14'43	1.37397 AU	max. Earth dist.	14121 Aug 18 21:13	3°♎57'04	1.39756 AU
	14120 Sep 10 03:05	0°♎					
				superior conj	14121 Aug 26 15:22	17°♎47'01	-0°52'04
superior conj	14120 Sep 12 21:10	5°♎17'21	-0°16'56	minimum elong	14121 Aug 26 19:15	18°♎04'53	0°51'45
minimum elong	14120 Sep 12 22:17	5°♎22'47	0°16'44	asc. node	14121 Sep 01 13:54	28°♎57'24	
asc. node	14120 Sep 14 17:22	8°♎53'41			14121 Sep 02 02:58	0°♎	
evening rise	14120 Sep 21 08:04	22°♎06'57		evening rise	14121 Sep 05 04:00	5°♎51'00	
	14120 Sep 25 07:59	0°♎			14121 Sep 19 12:52	0°♎	
evening max el	14120 Oct 08 04:01	19°♎45'43	19°23'02	evening max el	14121 Sep 21 04:38	1°♎48'32	18°35'47
desc. node	14120 Oct 17 11:25	24°♎30'28		retrograde	14121 Sep 29 05:57	5°♎52'29	
retrograde	14120 Oct 17 15:29	24°♎30'33		evening set	14121 Oct 01 04:36	5°♎39'03	
evening set	14120 Oct 19 12:23	24°♎20'15		desc. node	14121 Oct 04 08:54	4°♎24'52	
inferior conj	14120 Oct 28 03:25	20°♎12'11	-3°19'01	inferior conj	14121 Oct 09 03:22	1°♎11'32	-1°31'08
minimum elong	14120 Oct 27 19:04	20°♎25'48	3°15'17	minimum elong	14121 Oct 08 23:41	1°♎18'31	1°29'12
min. Earth dist.	14120 Oct 30 15:49	18°♎33'55	0.55660 AU		14121 Oct 10 16:44	30°♎	
morning rise	14120 Nov 04 23:31	15°♎43'51		min. Earth dist.	14121 Oct 12 07:40	28°♎47'10	0.57396 AU
direct	14120 Nov 10 07:27	14°♎39'36		morning rise	14121 Oct 16 15:19	26°♎05'30	
morning max el	14120 Nov 24 07:33	21°♎42'40	25°21'41	direct	14121 Oct 22 15:58	24°♎34'47	
	14120 Dec 01 13:38	0°♎			14121 Nov 03 15:50	0°♎	
asc. node	14120 Dec 11 18:36	15°♎57'48		morning max el	14121 Nov 05 22:40	2°♎04'09	26°49'07
	14120 Dec 18 23:26	0°♎			14121 Nov 25 21:16	0°♎	
morning set	14120 Dec 21 04:05	4°♎38'58		asc. node	14121 Nov 28 15:33	5°♎07'03	
				morning set	14121 Dec 05 13:56	19°♎11'18	
superior conj	14120 Dec 27 22:19	19°♎30'44	1°37'53		14121 Dec 10 12:14	0°♎	
minimum elong	14120 Dec 27 22:33	19°♎32'05	1°38'54	superior conj	14121 Dec 12 09:34	4°♎13'05	1°36'18
max. Earth dist.	14120 Dec 29 12:10	22°♎59'16	1.31889 AU	minimum elong	14121 Dec 12 08:46	4°♎08'35	1°37'19
	14121 Jan 01 17:53	0°♎		max. Earth dist.	14121 Dec 12 19:17	5°♎07'20	1.31268 AU
evening rise	14121 Jan 04 02:55	4°♎59'34		evening rise	14121 Dec 19 06:10	19°♎15'34	
desc. node	14121 Jan 13 10:01	22°♎52'28			14121 Dec 24 12:36	0°♎	
	14121 Jan 17 14:11	0°♎		desc. node	14121 Dec 31 06:48	12°♎20'53	
evening max el	14121 Feb 05 21:51	25°♎30'24	27°33'25		14122 Jan 12 04:20	0°♎	
	14121 Feb 11 10:58	0°♎		evening max el	14122 Jan 19 03:26	7°♎42'53	27°08'41
retrograde	14121 Feb 19 19:09	2°♎54'24		retrograde	14122 Feb 02 03:03	14°♎58'32	
evening set	14121 Feb 26 16:34	0°♎35'55		evening set	14122 Feb 08 21:17	12°♎58'43	
	14121 Feb 27 13:05	30°♎		min. Earth dist.	14122 Feb 12 17:52	10°♎15'54	0.60207 AU
min. Earth dist.	14121 Mar 02 10:38	27°♎34'46	0.62395 AU	inferior conj	14122 Feb 15 22:19	7°♎36'30	-2°45'40
inferior conj	14121 Mar 05 09:40	24°♎45'58	-1°23'05	minimum elong	14122 Feb 16 04:22	7°♎23'51	2°42'52
minimum elong	14121 Mar 05 12:30	24°♎39'12	1°21'42	morning rise	14122 Feb 23 14:42	2°♎49'31	
asc. node	14121 Mar 09 15:59	21°♎07'25		asc. node	14122 Feb 24 13:28	2°♎37'48	
morning rise	14121 Mar 12 11:14	19°♎39'23		direct	14122 Feb 25 16:02	2°♎32'56	
direct	14121 Mar 14 17:29	19°♎16'02		morning max el	14122 Mar 05 00:25	6°♎13'07	18°01'14
morning max el	14121 Mar 21 09:38	22°♎39'02	17°46'54		14122 Mar 20 04:29	0°♎	
	14121 Mar 27 04:06	0°♎		morning set	14122 Mar 20 14:08	0°♎44'29	
morning set	14121 Apr 06 07:55	17°♎08'33		desc. node	14122 Mar 29 08:47	16°♎45'32	
desc. node	14121 Apr 11 12:17	26°♎12'56					
	14121 Apr 13 16:55	0°♎		superior conj	14122 Mar 30 17:28	19°♎10'20	-0°10'55
superior conj	14121 Apr 18 00:44	7°♎19'46	-0°49'51	minimum elong	14122 Mar 30 16:32	19°♎06'13	0°11'00
minimum elong	14121 Apr 17 19:54	6°♎59'32	0°49'42	behind sun begin	14122 Mar 30 10:45	18°♎40'42	
max. Earth dist.	14121 Apr 24 18:47	18°♎24'04	1.44059 AU	behind sun end	14122 Mar 30 22:19	19°♎31'43	
	14121 May 02 03:13	0°♎			14122 Apr 06 00:32	0°♎	
evening rise	14121 May 02 16:27	0°♎51'16		max. Earth dist.	14122 Apr 07 07:13	2°♎08'04	1.42265 AU
	14121 May 22 11:11	0°♎		evening rise	14122 Apr 12 19:16	11°♎05'25	
evening max el	14121 Jun 02 03:25	13°♎09'05	21°10'53		14122 Apr 25 03:46	0°♎	

evening max el	14122 May 15 20:56	26° $\Pi$ 59'32	22°28'16	evening rise	14123 Mar 24 18:46	22° $\Upsilon$ 15'23	
	14122 May 19 05:40	0° $\mathfrak{C}$			14123 Mar 29 12:29	0° $\mathfrak{C}$	
asc. node	14122 May 23 10:09	2° $\mathfrak{C}$ 22'47			14123 Apr 19 03:18	0° $\Pi$	
retrograde	14122 May 25 16:32	2° $\mathfrak{C}$ 46'00		evening max el	14123 Apr 28 11:35	10° $\Pi$ 52'37	23°49'23
evening set	14122 May 30 12:12	0° $\mathfrak{C}$ 45'02		retrograde	14123 May 09 11:00	17° $\Pi$ 19'23	
	14122 May 31 07:47	30° $\mathfrak{R}$ $\Pi$		asc. node	14123 May 10 07:24	17° $\Pi$ 16'10	
inferior conj	14122 Jun 04 19:10	24° $\Pi$ 23'26	2°58'20	evening set	14123 May 14 18:15	15° $\Pi$ 04'56	
minimum elong	14122 Jun 04 17:48	24° $\Pi$ 28'13	2°57'06	min. Earth dist.	14123 May 19 11:31	9° $\Pi$ 34'37	0.68768 AU
min. Earth dist.	14122 Jun 04 14:59	24° $\Pi$ 38'05	0.68982 AU	inferior conj	14123 May 20 04:25	8° $\Pi$ 36'54	2°36'37
morning rise	14122 Jun 09 23:15	18° $\Pi$ 11'41		minimum elong	14123 May 20 02:28	8° $\Pi$ 43'36	2°35'15
direct	14122 Jun 14 14:26	16° $\Pi$ 15'29		morning rise	14123 May 25 10:39	2° $\Pi$ 33'02	
morning max el	14122 Jun 23 16:33	21° $\Pi$ 33'21	21°43'50	direct	14123 May 29 13:28	0° $\Pi$ 57'12	
desc. node	14122 Jun 25 09:45	23° $\Pi$ 21'26		morning max el	14123 Jun 06 12:12	5° $\Pi$ 27'08	20°25'51
	14122 Jun 30 22:08	0° $\mathfrak{C}$		desc. node	14123 Jun 12 06:47	12° $\Pi$ 07'36	
	14122 Jul 21 16:07	0° $\Omega$			14123 Jun 24 23:13	0° $\mathfrak{C}$	
morning set	14122 Jul 25 21:22	6° $\Omega$ 37'29		morning set	14123 Jul 05 05:53	15° $\mathfrak{C}$ 34'28	
max. Earth dist.	14122 Jul 31 23:14	16° $\Omega$ 28'20	1.42019 AU		14123 Jul 14 10:02	0° $\Omega$	
				max. Earth dist.	14123 Jul 14 08:24	29° $\mathfrak{C}$ 53'26	1.43919 AU
superior conj	14122 Aug 08 14:28	29° $\Omega$ 25'12	-1°26'50	superior conj	14123 Jul 20 14:48	10° $\Omega$ 05'10	-1°55'55
minimum elong	14122 Aug 08 21:03	29° $\Omega$ 53'53	1°26'37	minimum elong	14123 Jul 20 21:56	10° $\Omega$ 34'44	1°56'13
	14122 Aug 08 22:27	0° $\mathfrak{M}$			14123 Aug 01 07:51	0° $\mathfrak{M}$	
asc. node	14122 Aug 19 10:26	18° $\mathfrak{M}$ 53'27		evening rise	14123 Aug 02 04:48	1° $\mathfrak{M}$ 31'13	
evening rise	14122 Aug 19 12:27	19° $\mathfrak{M}$ 02'43		asc. node	14123 Aug 06 07:02	8° $\mathfrak{M}$ 38'05	
	14122 Aug 25 13:55	0° $\mathfrak{A}$		evening max el	14123 Aug 19 03:26	27° $\mathfrak{M}$ 41'05	18°02'36
evening max el	14122 Sep 04 13:49	14° $\mathfrak{A}$ 30'15	18°09'29		14123 Aug 22 01:41	0° $\mathfrak{A}$	
retrograde	14122 Sep 11 14:58	18° $\mathfrak{A}$ 05'56		retrograde	14123 Aug 25 15:14	1° $\mathfrak{A}$ 02'50	
evening set	14122 Sep 13 20:20	17° $\mathfrak{A}$ 44'58		evening set	14123 Aug 28 04:45	0° $\mathfrak{A}$ 30'40	
inferior conj	14122 Sep 21 00:49	12° $\mathfrak{A}$ 56'37	0°04'22		14123 Aug 29 05:51	30° $\mathfrak{R}$ $\mathfrak{M}$	
minimum elong	14122 Sep 21 00:58	12° $\mathfrak{A}$ 56'16	0°04'26	inferior conj	14123 Sep 03 17:02	25° $\mathfrak{M}$ 22'52	1°18'48
transit middle	14122 Sep 21 00:58	12° $\mathfrak{A}$ 56'16	0°04'26	minimum elong	14123 Sep 03 19:05	25° $\mathfrak{M}$ 17'38	1°17'53
transit begin	14122 Sep 20 21:43	13° $\mathfrak{A}$ 03'29		min. Earth dist.	14123 Sep 06 16:20	22° $\mathfrak{M}$ 22'51	0.61863 AU
transit end	14122 Sep 21 04:14	12° $\mathfrak{A}$ 49'02		desc. node	14123 Sep 08 03:58	21° $\mathfrak{M}$ 00'11	
desc. node	14122 Sep 21 06:26	12° $\mathfrak{A}$ 44'07		morning rise	14123 Sep 10 06:54	19° $\mathfrak{M}$ 19'16	
min. Earth dist.	14122 Sep 24 07:24	10° $\mathfrak{A}$ 03'37	0.59566 AU	direct	14123 Sep 16 23:06	16° $\mathfrak{M}$ 59'07	
morning rise	14122 Sep 28 02:16	7° $\mathfrak{A}$ 17'11		morning max el	14123 Oct 01 02:42	24° $\mathfrak{M}$ 57'37	27°58'34
direct	14122 Oct 04 14:02	5° $\mathfrak{A}$ 19'19			14123 Oct 05 17:28	0° $\mathfrak{A}$	
morning max el	14122 Oct 18 21:20	13° $\mathfrak{A}$ 07'20	27°43'18		14123 Oct 25 18:41	0° $\mathfrak{M}$	
	14122 Nov 01 07:47	0° $\mathfrak{M}$		asc. node	14123 Nov 02 09:07	14° $\mathfrak{M}$ 27'31	
asc. node	14122 Nov 15 12:23	24° $\mathfrak{M}$ 39'13		morning set	14123 Nov 03 20:44	17° $\mathfrak{M}$ 28'49	
	14122 Nov 18 03:57	0° $\mathfrak{X}$		max. Earth dist.	14123 Nov 09 08:35	29° $\mathfrak{M}$ 09'33	1.31608 AU
morning set	14122 Nov 19 20:10	3° $\mathfrak{X}$ 29'42			14123 Nov 09 17:49	0° $\mathfrak{X}$	
max. Earth dist.	14122 Nov 26 03:19	17° $\mathfrak{X}$ 13'49	1.31168 AU				
superior conj	14122 Nov 26 21:01	18° $\mathfrak{X}$ 52'34	1°28'51	superior conj	14123 Nov 11 06:48	3° $\mathfrak{X}$ 23'26	1°15'35
minimum elong	14122 Nov 26 19:21	18° $\mathfrak{X}$ 43'15	1°29'43	minimum elong	14123 Nov 11 04:36	3° $\mathfrak{X}$ 11'16	1°16'11
	14122 Dec 01 21:09	0° $\mathfrak{Z}$		evening rise	14123 Nov 18 00:17	18° $\mathfrak{X}$ 12'23	
evening rise	14122 Dec 03 13:57	3° $\mathfrak{Z}$ 41'41			14123 Nov 23 16:50	0° $\mathfrak{Z}$	
	14122 Dec 17 09:18	0° $\mathfrak{A}$		desc. node	14123 Dec 05 00:45	19° $\mathfrak{Z}$ 18'02	
desc. node	14122 Dec 18 03:43	1° $\mathfrak{A}$ 14'05		evening max el	14123 Dec 13 15:48	29° $\mathfrak{Z}$ 36'28	24°41'52
evening max el	14123 Jan 01 01:44	19° $\mathfrak{A}$ 04'51	26°09'35		14123 Dec 14 01:48	0° $\mathfrak{A}$	
retrograde	14123 Jan 15 00:38	26° $\mathfrak{A}$ 09'22		retrograde	14123 Dec 27 09:27	6° $\mathfrak{A}$ 27'55	
evening set	14123 Jan 21 07:24	24° $\mathfrak{A}$ 35'30		evening set	14124 Jan 01 18:52	5° $\mathfrak{A}$ 23'40	
min. Earth dist.	14123 Jan 25 15:04	21° $\mathfrak{A}$ 58'36	0.58054 AU	min. Earth dist.	14124 Jan 07 03:36	2° $\mathfrak{A}$ 36'22	0.56195 AU
inferior conj	14123 Jan 28 16:39	19° $\mathfrak{A}$ 45'29	-4°10'28	inferior conj	14124 Jan 09 14:08	1° $\mathfrak{A}$ 04'07	-5°22'25
minimum elong	14123 Jan 29 01:19	19° $\mathfrak{A}$ 29'46	4°07'03	minimum elong	14124 Jan 09 22:03	0° $\mathfrak{A}$ 51'36	5°19'58
morning rise	14123 Feb 05 22:12	15° $\mathfrak{A}$ 19'53			14124 Jan 11 07:22	30° $\mathfrak{R}$ $\mathfrak{Z}$	
direct	14123 Feb 07 22:56	15° $\mathfrak{A}$ 06'18		morning rise	14124 Jan 18 03:21	26° $\mathfrak{Z}$ 59'39	
asc. node	14123 Feb 11 10:54	15° $\mathfrak{A}$ 48'53		direct	14124 Jan 20 10:53	26° $\mathfrak{Z}$ 45'00	
morning max el	14123 Feb 16 08:32	19° $\mathfrak{A}$ 13'58	18°35'41		14124 Jan 28 13:42	0° $\mathfrak{A}$	
	14123 Feb 24 06:36	0° $\mathfrak{X}$		asc. node	14124 Jan 29 08:18	0° $\mathfrak{A}$ 39'15	
morning set	14123 Mar 04 08:42	14° $\mathfrak{X}$ 53'40		morning max el	14124 Jan 30 05:46	1° $\mathfrak{A}$ 28'57	19°32'22
	14123 Mar 12 05:44	0° $\Upsilon$		morning set	14124 Feb 16 11:32	29° $\mathfrak{A}$ 23'14	
					14124 Feb 16 18:52	0° $\mathfrak{X}$	
superior conj	14123 Mar 13 06:48	1° $\Upsilon$ 57'12	0°23'44	superior conj	14124 Feb 24 12:08	15° $\mathfrak{X}$ 26'54	0°52'03
minimum elong	14123 Mar 13 08:24	2° $\Upsilon$ 04'35	0°23'33	minimum elong	14124 Feb 24 14:45	15° $\mathfrak{X}$ 39'44	0°52'01
desc. node	14123 Mar 16 05:15	7° $\Upsilon$ 20'53		max. Earth dist.	14124 Mar 01 22:00	27° $\mathfrak{X}$ 37'41	1.37857 AU
max. Earth dist.	14123 Mar 20 15:27	15° $\Upsilon$ 12'19	1.40120 AU				

desc. node	14124 Mar 02 01:44	27° $\text{X}$ 54'48		minimum elong	14125 Feb 07 07:53	29° $\approx$ 41'15	1°13'44
	14124 Mar 03 05:14	0° $\text{Y}$			14125 Feb 07 11:33	0° $\text{X}$	
evening rise	14124 Mar 05 14:57	4° $\text{Y}$ 17'35		max. Earth dist.	14125 Feb 12 06:48	9° $\text{X}$ 36'05	1.35709 AU
	14124 Mar 21 13:28	0° $\text{B}$		evening rise	14125 Feb 16 05:03	17° $\text{X}$ 04'20	
evening max el	14124 Apr 10 01:11	24° $\text{B}$ 46'12	25°07'36	desc. node	14125 Feb 16 22:16	18° $\text{X}$ 23'53	
	14124 Apr 16 12:58	0° $\text{II}$			14125 Feb 23 12:15	0° $\text{Y}$	
retrograde	14124 Apr 22 01:24	1° $\text{II}$ 44'37			14125 Mar 15 22:03	0° $\text{B}$	
asc. node	14124 Apr 26 04:45	0° $\text{II}$ 31'37		evening max el	14125 Mar 23 14:46	8° $\text{B}$ 36'00	26°15'43
	14124 Apr 26 23:47	30° $\text{K}$ $\text{B}$		retrograde	14125 Apr 05 10:55	15° $\text{B}$ 55'09	
evening set	14124 Apr 27 20:17	29° $\text{B}$ 19'35		evening set	14125 Apr 11 16:35	13° $\text{B}$ 23'48	
min. Earth dist.	14124 May 02 05:48	24° $\text{B}$ 25'37	0.68090 AU	asc. node	14125 Apr 13 02:10	12° $\text{B}$ 07'34	
inferior conj	14124 May 03 11:20	22° $\text{B}$ 48'59	2°04'31	min. Earth dist.	14125 Apr 15 19:43	9° $\text{B}$ 05'06	0.66969 AU
minimum elong	14124 May 03 09:11	22° $\text{B}$ 56'03	2°03'07	inferior conj	14125 Apr 17 13:54	6° $\text{B}$ 55'33	1°21'31
morning rise	14124 May 08 22:23	16° $\text{B}$ 54'19		minimum elong	14125 Apr 17 12:05	7° $\text{B}$ 01'08	1°20'21
direct	14124 May 12 13:26	15° $\text{B}$ 38'46		morning rise	14125 Apr 23 08:28	1° $\text{B}$ 11'34	
morning max el	14124 May 19 15:23	19° $\text{B}$ 31'46	19°21'33	direct	14125 Apr 26 12:38	0° $\text{B}$ 14'40	
	14124 May 28 02:22	0° $\text{II}$		morning max el	14125 May 03 01:38	3° $\text{B}$ 43'53	18°33'07
desc. node	14124 May 29 03:42	1° $\text{II}$ 29'46		desc. node	14125 May 16 00:30	21° $\text{B}$ 18'23	
greatest brilliancy	14124 Jun 01 08:09	6° $\text{II}$ 08'01	-0.7m		14125 May 21 14:13	0° $\text{II}$	
morning set	14124 Jun 13 08:29	24° $\text{II}$ 21'10		morning set	14125 May 24 02:10	3° $\text{II}$ 55'29	
	14124 Jun 17 00:21	0° $\text{B}$					
max. Earth dist.	14124 Jun 25 23:57	14° $\text{B}$ 00'04	1.45234 AU	superior conj	14125 Jun 09 01:54	28° $\text{II}$ 56'34	-2°09'42
				minimum elong	14125 Jun 08 21:05	28° $\text{II}$ 37'46	2°10'35
superior conj	14124 Jun 29 16:00	19° $\text{B}$ 48'06	-2°12'15	max. Earth dist.	14125 Jun 08 19:02	28° $\text{II}$ 29'44	1.45845 AU
minimum elong	14124 Jun 29 18:55	19° $\text{B}$ 59'38	2°13'14		14125 Jun 09 18:10	0° $\text{B}$	
	14124 Jul 06 00:34	0° $\text{B}$		evening rise	14125 Jun 24 18:27	23° $\text{B}$ 35'49	
evening rise	14124 Jul 13 23:57	13° $\text{B}$ 04'35			14125 Jun 28 19:25	0° $\text{B}$	
asc. node	14124 Jul 23 03:44	28° $\text{B}$ 06'22		greatest brilliancy	14125 Jul 02 22:50	6° $\text{B}$ 31'46	-0.8m
	14124 Jul 24 08:35	0° $\text{B}$		asc. node	14125 Jul 10 00:31	17° $\text{B}$ 11'28	
evening max el	14124 Aug 01 17:52	11° $\text{B}$ 11'55	18°14'12	evening max el	14125 Jul 16 06:05	24° $\text{B}$ 54'24	18°43'30
retrograde	14124 Aug 08 02:26	14° $\text{B}$ 33'54		retrograde	14125 Jul 22 20:28	28° $\text{B}$ 29'58	
evening set	14124 Aug 11 00:26	13° $\text{B}$ 47'51		evening set	14125 Jul 26 03:20	27° $\text{B}$ 28'09	
inferior conj	14124 Aug 17 00:01	8° $\text{B}$ 22'52	2°11'51	inferior conj	14125 Jul 31 17:53	21° $\text{B}$ 48'08	2°46'21
minimum elong	14124 Aug 17 02:27	8° $\text{B}$ 15'54	2°10'42	minimum elong	14125 Jul 31 19:50	21° $\text{B}$ 42'04	2°45'16
min. Earth dist.	14124 Aug 19 11:01	5° $\text{B}$ 35'42	0.64026 AU	min. Earth dist.	14125 Aug 02 14:47	19° $\text{B}$ 28'59	0.65889 AU
morning rise	14124 Aug 23 02:52	2° $\text{B}$ 04'51		morning rise	14125 Aug 06 11:24	15° $\text{B}$ 23'48	
desc. node	14124 Aug 25 01:30	0° $\text{B}$ 46'36		desc. node	14125 Aug 11 23:00	12° $\text{B}$ 46'59	
	14124 Aug 26 19:03	30° $\text{K}$ $\text{B}$		direct	14125 Aug 12 19:36	12° $\text{B}$ 44'16	
direct	14124 Aug 29 17:24	29° $\text{B}$ 30'24		morning max el	14125 Aug 25 23:49	20° $\text{B}$ 32'23	26°43'55
	14124 Sep 01 19:19	0° $\text{B}$			14125 Sep 03 03:34	0° $\text{B}$	
morning max el	14124 Sep 12 12:27	7° $\text{B}$ 30'01	27°36'40		14125 Sep 22 23:50	0° $\text{B}$	
	14124 Sep 29 20:51	0° $\text{B}$		morning set	14125 Sep 30 18:48	14° $\text{B}$ 06'15	
	14124 Oct 17 00:26	0° $\text{B}$		max. Earth dist.	14125 Oct 04 20:40	22° $\text{B}$ 02'57	1.34113 AU
morning set	14124 Oct 17 13:17	1° $\text{B}$ 03'35		asc. node	14125 Oct 06 02:23	24° $\text{B}$ 32'16	
asc. node	14124 Oct 19 05:47	4° $\text{B}$ 26'51			14125 Oct 08 18:21	0° $\text{B}$	
max. Earth dist.	14124 Oct 22 07:22	10° $\text{B}$ 47'03	1.32594 AU				
				superior conj	14125 Oct 09 13:07	1° $\text{B}$ 37'35	0°31'56
superior conj	14124 Oct 25 12:58	17° $\text{B}$ 40'38	0°56'34	minimum elong	14125 Oct 09 11:30	1° $\text{B}$ 29'11	0°32'04
minimum elong	14124 Oct 25 10:43	17° $\text{B}$ 28'32	0°56'53	evening rise	14125 Oct 16 21:17	17° $\text{B}$ 08'42	
	14124 Oct 31 05:04	0° $\text{B}$			14125 Oct 23 06:08	0° $\text{B}$	
evening rise	14124 Nov 01 11:23	2° $\text{B}$ 43'17		evening max el	14125 Nov 05 16:15	19° $\text{B}$ 45'10	21°21'41
	14124 Nov 16 04:34	0° $\text{B}$		desc. node	14125 Nov 07 19:12	21° $\text{B}$ 40'10	
desc. node	14124 Nov 20 21:55	6° $\text{B}$ 14'46		retrograde	14125 Nov 17 16:58	25° $\text{B}$ 43'24	
evening max el	14124 Nov 24 01:30	9° $\text{B}$ 37'33	22°59'53	evening set	14125 Nov 20 11:42	25° $\text{B}$ 25'33	
retrograde	14124 Dec 07 05:28	16° $\text{B}$ 09'48		inferior conj	14125 Nov 29 08:04	21° $\text{B}$ 32'43	-5°35'56
evening set	14124 Dec 11 07:54	15° $\text{B}$ 33'13		minimum elong	14125 Nov 29 00:38	21° $\text{B}$ 43'12	5°33'46
min. Earth dist.	14124 Dec 18 10:44	12° $\text{B}$ 16'11	0.54917 AU	min. Earth dist.	14125 Nov 29 16:35	21° $\text{B}$ 20'44	0.54472 AU
inferior conj	14124 Dec 19 16:24	11° $\text{B}$ 33'45	-5°57'54	morning rise	14125 Dec 07 14:11	17° $\text{B}$ 43'16	
minimum elong	14124 Dec 19 17:38	11° $\text{B}$ 31'59	5°56'48	direct	14125 Dec 11 11:54	17° $\text{B}$ 10'21	
morning rise	14124 Dec 28 04:51	7° $\text{B}$ 44'34		morning max el	14125 Dec 24 06:24	23° $\text{B}$ 19'29	22°32'19
direct	14124 Dec 31 04:20	7° $\text{B}$ 23'50			14125 Dec 30 02:43	0° $\text{B}$	
morning max el	14125 Jan 11 12:56	12° $\text{B}$ 50'00	20°52'18	asc. node	14126 Jan 02 02:49	4° $\text{B}$ 17'07	
asc. node	14125 Jan 15 05:36	16° $\text{B}$ 54'41		morning set	14126 Jan 15 06:40	28° $\text{B}$ 49'45	
	14125 Jan 23 16:12	0° $\approx$			14126 Jan 15 19:54	0° $\approx$	
morning set	14125 Jan 30 19:40	14° $\approx$ 04'25					
				superior conj	14126 Jan 22 06:47	13° $\approx$ 50'16	1°28'01
superior conj	14125 Feb 07 05:18	29° $\approx$ 28'04	1°13'26	minimum elong	14126 Jan 22 08:40	14° $\approx$ 00'16	1°28'40

max. Earth dist.	14126 Jan 25 21:47	21° $\approx$ 26'10	1.33871 AU	morning set	14126 Dec 30 18:35	13° $\approx$ 33'45	
evening rise	14126 Jan 30 09:31	0° $\approx$ 26'13					
	14126 Jan 30 04:08	0° $\approx$		superior conj	14127 Jan 06 13:48	28° $\approx$ 25'20	1°36'04
desc. node	14126 Feb 03 18:53	8° $\approx$ 43'39		minimum elong	14127 Jan 06 14:40	28° $\approx$ 30'06	1°37'00
	14126 Feb 16 13:33	0° $\approx$			14127 Jan 07 07:09	0° $\approx$	
evening max el	14126 Mar 06 04:20	22° $\approx$ 14'16	27°06'26	max. Earth dist.	14127 Jan 08 20:31	3° $\approx$ 22'28	1.32471 AU
retrograde	14126 Mar 19 14:46	29° $\approx$ 42'47		evening rise	14127 Jan 14 01:02	14° $\approx$ 14'49	
evening set	14126 Mar 26 05:12	27° $\approx$ 10'54		desc. node	14127 Jan 21 15:32	28° $\approx$ 48'52	
min. Earth dist.	14126 Mar 30 03:18	23° $\approx$ 25'21	0.65441 AU		14127 Jan 22 07:25	0° $\approx$	
asc. node	14126 Mar 30 23:37	22° $\approx$ 28'34			14127 Feb 11 13:02	0° $\approx$	
inferior conj	14126 Apr 01 09:48	20° $\approx$ 51'24	0°26'59	evening max el	14127 Feb 16 16:46	5° $\approx$ 29'36	27°32'25
minimum elong	14126 Apr 01 09:04	20° $\approx$ 53'28	0°26'26	retrograde	14127 Mar 02 11:42	12° $\approx$ 57'18	
morning rise	14126 Apr 07 14:32	15° $\approx$ 19'51		evening set	14127 Mar 09 07:44	10° $\approx$ 32'02	
direct	14126 Apr 10 08:56	14° $\approx$ 38'46		min. Earth dist.	14127 Mar 13 02:36	7° $\approx$ 16'00	0.63573 AU
morning max el	14126 Apr 16 16:59	17° $\approx$ 56'55	18°01'29	inferior conj	14127 Mar 15 20:11	4° $\approx$ 28'52	-0°39'34
	14126 Apr 25 18:19	0° $\approx$		minimum elong	14127 Mar 15 21:27	4° $\approx$ 25'38	0°39'01
desc. node	14126 May 02 21:13	11° $\approx$ 26'23		asc. node	14127 Mar 17 21:06	2° $\approx$ 27'57	
morning set	14126 May 04 23:07	14° $\approx$ 50'04			14127 Mar 20 23:44	30° $\approx$ 12'08	
	14126 May 14 08:04	0° $\approx$		morning rise	14127 Mar 22 13:34	29° $\approx$ 12'08	
				direct	14127 Mar 24 23:41	28° $\approx$ 43'22	
superior conj	14126 May 19 12:52	8° $\approx$ 15'07	-1°47'41		14127 Mar 28 22:30	0° $\approx$	
minimum elong	14126 May 19 03:53	7° $\approx$ 39'43	1°47'50	morning max el	14127 Mar 31 10:36	2° $\approx$ 01'45	17°47'06
max. Earth dist.	14126 May 22 15:02	13° $\approx$ 06'20	1.45709 AU	morning set	14127 Apr 16 22:52	27° $\approx$ 01'31	
	14126 Jun 02 12:14	0° $\approx$			14127 Apr 18 16:38	0° $\approx$	
evening rise	14126 Jun 04 15:11	3° $\approx$ 16'21		desc. node	14127 Apr 19 17:50	1° $\approx$ 47'24	
greatest brilliancy	14126 Jun 17 20:00	23° $\approx$ 20'32	-0.7m				
	14126 Jun 22 11:12	0° $\approx$		superior conj	14127 Apr 29 16:24	18° $\approx$ 22'21	-1°12'34
asc. node	14126 Jun 26 21:25	5° $\approx$ 45'22		minimum elong	14127 Apr 29 09:13	17° $\approx$ 53'05	1°12'21
evening max el	14126 Jun 29 13:51	8° $\approx$ 42'57	19°29'29	max. Earth dist.	14127 May 05 09:44	27° $\approx$ 34'26	1.44852 AU
retrograde	14126 Jul 06 18:10	12° $\approx$ 44'20			14127 May 06 22:32	0° $\approx$	
evening set	14126 Jul 10 10:26	11° $\approx$ 25'43		evening rise	14127 May 15 02:12	12° $\approx$ 14'00	
inferior conj	14126 Jul 15 19:21	5° $\approx$ 32'12	3°05'23		14127 May 26 14:46	0° $\approx$	
minimum elong	14126 Jul 15 20:24	5° $\approx$ 28'44	3°04'23	evening max el	14127 Jun 12 15:52	22° $\approx$ 33'14	20°30'20
min. Earth dist.	14126 Jul 17 01:54	3° $\approx$ 51'15	0.67357 AU	asc. node	14127 Jun 13 18:24	23° $\approx$ 36'49	
	14126 Jul 20 07:48	30° $\approx$ 16'31		retrograde	14127 Jun 20 17:02	27° $\approx$ 10'46	
morning rise	14126 Jul 21 05:50	29° $\approx$ 07'31		evening set	14127 Jun 24 19:29	25° $\approx$ 35'01	
direct	14126 Jul 27 04:32	26° $\approx$ 31'51		inferior conj	14127 Jun 30 01:42	19° $\approx$ 29'22	3°11'26
desc. node	14126 Jul 29 20:25	26° $\approx$ 58'30		minimum elong	14127 Jun 30 01:44	19° $\approx$ 29'15	3°10'25
	14126 Aug 04 03:51	0° $\approx$		min. Earth dist.	14127 Jun 30 18:19	18° $\approx$ 32'17	0.68371 AU
morning max el	14126 Aug 08 10:46	3° $\approx$ 52'36	25°29'15	morning rise	14127 Jul 05 07:41	13° $\approx$ 08'08	
	14126 Aug 28 10:30	0° $\approx$		direct	14127 Jul 10 18:48	10° $\approx$ 43'59	
morning set	14126 Sep 13 09:33	26° $\approx$ 28'07		desc. node	14127 Jul 16 17:45	12° $\approx$ 56'53	
	14126 Sep 15 07:56	0° $\approx$		morning max el	14127 Jul 21 21:02	17° $\approx$ 22'13	24°02'30
max. Earth dist.	14126 Sep 17 00:06	3° $\approx$ 07'11	1.36101 AU		14127 Aug 01 09:47	0° $\approx$	
asc. node	14126 Sep 22 22:58	14° $\approx$ 40'02			14127 Aug 21 11:06	0° $\approx$	
				morning set	14127 Aug 26 05:07	7° $\approx$ 58'08	
superior conj	14126 Sep 23 04:30	15° $\approx$ 07'40	0°02'10	max. Earth dist.	14127 Aug 29 22:13	14° $\approx$ 26'46	1.38399 AU
minimum elong	14126 Sep 23 04:21	15° $\approx$ 06'57	0°02'17				
behind sun begin	14126 Sep 22 22:07	14° $\approx$ 35'46		superior conj	14127 Sep 06 07:36	28° $\approx$ 02'22	-0°31'39
behind sun end	14126 Sep 23 10:36	15° $\approx$ 38'12		minimum elong	14127 Sep 06 09:50	28° $\approx$ 12'56	0°31'23
	14126 Sep 30 11:33	0° $\approx$			14127 Sep 07 08:15	0° $\approx$	
evening rise	14126 Oct 01 03:51	1° $\approx$ 23'26		asc. node	14127 Sep 09 19:31	4° $\approx$ 46'28	
	14126 Oct 18 07:27	0° $\approx$		evening rise	14127 Sep 15 04:32	15° $\approx$ 20'57	
evening max el	14126 Oct 18 20:01	0° $\approx$ 32'06	20°00'12		14127 Sep 22 22:44	0° $\approx$	
desc. node	14126 Oct 25 16:33	5° $\approx$ 07'52		evening max el	14127 Oct 01 13:53	12° $\approx$ 08'36	19°00'18
retrograde	14126 Oct 29 06:12	5° $\approx$ 43'35		retrograde	14127 Oct 10 09:30	16° $\approx$ 34'13	
evening set	14126 Oct 31 06:33	5° $\approx$ 32'51		evening set	14127 Oct 12 06:22	16° $\approx$ 23'04	
inferior conj	14126 Nov 09 03:28	1° $\approx$ 34'00	-4°18'31	desc. node	14127 Oct 12 13:58	16° $\approx$ 19'03	
minimum elong	14126 Nov 08 17:29	1° $\approx$ 49'06	4°14'38	inferior conj	14127 Oct 20 15:07	12° $\approx$ 07'20	-2°32'46
min. Earth dist.	14126 Nov 11 00:20	0° $\approx$ 26'08	0.54975 AU	minimum elong	14127 Oct 20 08:41	12° $\approx$ 18'30	2°29'38
	14126 Nov 11 18:01	30° $\approx$ 16'16		min. Earth dist.	14127 Oct 23 12:16	10° $\approx$ 07'50	0.56329 AU
morning rise	14126 Nov 17 03:12	27° $\approx$ 24'18		morning rise	14127 Oct 28 08:06	7° $\approx$ 23'28	
direct	14126 Nov 21 23:44	26° $\approx$ 32'47		direct	14127 Nov 03 00:04	6° $\approx$ 08'06	
	14126 Dec 01 15:42	0° $\approx$		morning max el	14127 Nov 17 03:23	13° $\approx$ 22'48	26°02'15
morning max el	14126 Dec 05 16:13	3° $\approx$ 18'50	24°21'30		14127 Nov 30 04:50	0° $\approx$	
asc. node	14126 Dec 19 23:55	22° $\approx$ 30'55		asc. node	14127 Dec 06 20:56	11° $\approx$ 23'21	
	14126 Dec 24 03:00	0° $\approx$		morning set	14127 Dec 15 05:42	28° $\approx$ 12'04	

	14127 Dec 16 01:41	0°♁		superior conj	14128 Dec 05 11:37	27°♁48'31	1°33'50
				minimum elong	14128 Dec 05 10:25	27°♁41'47	1°34'49
superior conj	14127 Dec 22 00:05	13°♁07'03	1°37'56	max. Earth dist.	14128 Dec 05 09:48	27°♁38'22	1.31163 AU
minimum elong	14127 Dec 21 23:52	13°♁05'52	1°38'59		14128 Dec 06 11:07	0°♁	
max. Earth dist.	14127 Dec 23 01:37	15°♁28'53	1.31562 AU	evening rise	14128 Dec 12 06:09	12°♁44'06	
evening rise	14127 Dec 29 00:44	28°♁23'14			14128 Dec 20 21:57	0°♁	
	14127 Dec 29 19:20	0°♁		desc. node	14128 Dec 25 09:06	7°♁48'22	
desc. node	14128 Jan 08 12:16	18°♁33'29		evening max el	14129 Jan 11 04:36	0°♁00'57	26°47'35
	14128 Jan 15 12:45	0°♁			14129 Jan 11 04:12	0°♁	
evening max el	14128 Jan 30 01:51	18°♁09'35	27°27'20	retrograde	14129 Jan 25 03:48	7°♁11'24	
retrograde	14128 Feb 13 00:31	25°♁29'45		evening set	14129 Jan 31 18:33	5°♁21'46	
evening set	14128 Feb 19 21:20	23°♁18'38		min. Earth dist.	14129 Feb 04 18:31	2°♁43'30	0.59278 AU
min. Earth dist.	14128 Feb 23 15:55	20°♁26'18	0.61472 AU	inferior conj	14129 Feb 07 23:03	0°♁13'24	-3°22'00
inferior conj	14128 Feb 26 17:50	17°♁39'47	-1°57'11	minimum elong	14129 Feb 08 06:24	29°♁58'56	3°18'47
minimum elong	14128 Feb 26 21:59	17°♁30'24	1°55'11		14129 Feb 08 05:52	30°♁	
asc. node	14128 Mar 03 18:33	13°♁11'09		morning rise	14129 Feb 15 21:26	25°♁35'22	
morning rise	14128 Mar 05 01:39	12°♁40'50		direct	14129 Feb 17 22:01	25°♁20'24	
direct	14128 Mar 07 05:29	12°♁20'44		asc. node	14129 Feb 18 16:00	25°♁22'31	
morning max el	14128 Mar 14 03:24	15°♁49'53	17°50'38	morning max el	14129 Feb 25 15:46	29°♁10'38	18°13'22
	14128 Mar 24 01:29	0°♁			14129 Feb 26 11:02	0°♁	
morning set	14128 Mar 29 19:44	10°♁12'17		morning set	14129 Mar 13 07:44	24°♁03'44	
desc. node	14128 Apr 05 14:24	22°♁17'08			14129 Mar 16 11:23	0°♁	
superior conj	14128 Apr 09 19:36	29°♁35'39	-0°33'02	superior conj	14129 Mar 22 21:36	11°♁51'22	0°04'30
minimum elong	14128 Apr 09 16:32	29°♁22'32	0°32'59	minimum elong	14129 Mar 22 21:56	11°♁52'53	0°04'20
	14128 Apr 10 01:18	0°♁		behind sun begin	14129 Mar 22 14:40	11°♁20'05	
max. Earth dist.	14128 Apr 17 01:22	11°♁40'22	1.43360 AU	behind sun end	14129 Mar 23 05:12	12°♁25'36	
evening rise	14128 Apr 23 19:46	22°♁27'56		desc. node	14129 Mar 23 10:54	12°♁51'14	
	14128 Apr 28 17:02	0°♁		max. Earth dist.	14129 Mar 30 12:17	25°♁09'25	1.41383 AU
	14128 May 19 21:20	0°♁			14129 Apr 02 09:51	0°♁	
evening max el	14128 May 25 12:14	6°♁23'53	21°42'54	evening rise	14129 Apr 04 06:57	3°♁04'37	
asc. node	14128 May 30 15:27	10°♁32'15			14129 Apr 22 00:35	0°♁	
retrograde	14128 Jun 03 15:21	11°♁44'14		evening max el	14129 May 08 04:12	20°♁15'04	23°02'38
evening set	14128 Jun 08 04:39	9°♁51'55		asc. node	14129 May 17 12:38	26°♁15'14	
inferior conj	14128 Jun 13 10:42	3°♁35'36	3°06'09	retrograde	14129 May 18 11:38	26°♁19'23	
minimum elong	14128 Jun 13 09:48	3°♁38'46	3°05'00	evening set	14129 May 23 12:19	24°♁12'06	
min. Earth dist.	14128 Jun 13 13:55	3°♁24'23	0.68903 AU	inferior conj	14129 May 28 20:24	17°♁47'20	2°50'23
	14128 Jun 16 02:53	30°♁		minimum elong	14129 May 28 18:45	17°♁53'05	2°49'05
morning rise	14128 Jun 18 14:45	27°♁20'09		min. Earth dist.	14129 May 28 10:42	18°♁20'58	0.68949 AU
direct	14128 Jun 23 13:18	25°♁12'53		morning rise	14129 Jun 03 01:06	11°♁39'01	
	14128 Jul 02 08:05	0°♁		direct	14129 Jun 07 10:56	9°♁51'35	
desc. node	14128 Jul 02 15:00	0°♁16'27		morning max el	14129 Jun 16 00:48	14°♁47'53	21°09'19
morning max el	14128 Jul 03 08:41	0°♁59'58	22°33'10	desc. node	14129 Jun 19 12:07	18°♁35'52	
	14128 Jul 25 06:13	0°♁			14129 Jun 28 04:59	0°♁	
morning set	14128 Aug 06 01:17	18°♁26'19		morning set	14129 Jul 16 21:10	27°♁52'15	
max. Earth dist.	14128 Aug 10 22:01	26°♁30'42	1.40757 AU		14129 Jul 18 05:41	0°♁	
	14128 Aug 12 23:08	0°♁		max. Earth dist.	14129 Jul 24 03:31	9°♁28'02	1.42886 AU
superior conj	14128 Aug 18 18:15	10°♁11'38	-1°07'08	superior conj	14129 Jul 31 08:05	21°♁26'10	-1°40'15
minimum elong	14128 Aug 18 23:23	10°♁34'41	1°06'48	minimum elong	14129 Jul 31 15:21	21°♁57'05	1°40'11
asc. node	14128 Aug 26 16:04	24°♁47'36			14129 Aug 05 07:03	0°♁	
evening rise	14128 Aug 28 20:06	28°♁52'43		evening rise	14129 Aug 11 22:27	11°♁48'39	
	14128 Aug 29 10:23	0°♁		asc. node	14129 Aug 13 12:39	14°♁39'56	
evening max el	14128 Sep 13 18:39	24°♁29'01	18°22'02		14129 Aug 22 12:22	0°♁	
retrograde	14128 Sep 21 08:13	28°♁19'16		evening max el	14129 Aug 28 06:11	7°♁24'37	18°04'09
evening set	14128 Sep 23 09:30	28°♁03'01		retrograde	14129 Sep 04 00:32	10°♁53'01	
desc. node	14128 Sep 28 11:28	25°♁24'42		evening set	14129 Sep 06 09:10	10°♁27'46	
inferior conj	14128 Oct 01 00:21	23°♁26'11	-0°48'15	inferior conj	14129 Sep 13 06:22	5°♁30'42	0°38'37
minimum elong	14128 Sep 30 22:32	23°♁29'54	0°47'12	minimum elong	14129 Sep 13 07:34	5°♁27'54	0°38'10
min. Earth dist.	14128 Oct 04 06:56	20°♁47'26	0.58287 AU	desc. node	14129 Sep 15 09:00	3°♁30'52	
morning rise	14128 Oct 08 08:06	18°♁05'11		min. Earth dist.	14129 Sep 16 10:38	2°♁32'05	0.60542 AU
direct	14128 Oct 14 14:12	16°♁23'01			14129 Sep 19 14:29	30°♁	
morning max el	14128 Oct 28 21:39	24°♁00'22	27°16'54	morning rise	14129 Sep 20 02:53	29°♁39'24	
	14128 Nov 03 08:33	0°♁		direct	14129 Sep 26 17:07	27°♁31'27	
	14128 Nov 22 08:50	0°♁			14129 Oct 04 07:24	0°♁	
asc. node	14128 Nov 22 17:49	0°♁43'23		morning max el	14129 Oct 10 23:46	5°♁25'18	27°54'38
morning set	14128 Nov 28 14:14	12°♁39'01			14129 Oct 29 09:15	0°♁	



asc. node	14129 Nov 09 14:38	20° $\mathbb{M}$ 23'28		asc. node	14130 Oct 27 11:22	10° $\mathbb{M}$ 17'05	
morning set	14129 Nov 12 18:21	26° $\mathbb{M}$ 50'11		morning set	14130 Oct 27 15:52	10° $\mathbb{M}$ 39'53	
	14129 Nov 14 06:20	0° $\mathbb{X}$		max. Earth dist.	14130 Nov 01 20:00	21° $\mathbb{M}$ 29'39	1.31959 AU
max. Earth dist.	14129 Nov 18 17:13	9° $\mathbb{X}$ 41'50	1.31290 AU				
superior conj	14129 Nov 19 22:36	12° $\mathbb{X}$ 24'58	1°23'55	superior conj	14130 Nov 04 07:08	26° $\mathbb{M}$ 50'48	1°08'13
minimum elong	14129 Nov 19 20:39	12° $\mathbb{X}$ 14'09	1°24'41	minimum elong	14130 Nov 04 04:50	26° $\mathbb{M}$ 38'16	1°08'42
evening rise	14129 Nov 26 15:16	27° $\mathbb{X}$ 12'35			14130 Nov 05 17:37	0° $\mathbb{X}$	
	14129 Nov 27 22:32	0° $\mathbb{Z}$		evening rise	14130 Nov 11 02:09	11° $\mathbb{X}$ 43'43	
					14130 Nov 20 05:15	0° $\mathbb{Z}$	
desc. node	14129 Dec 12 06:04	26° $\mathbb{Z}$ 22'28		desc. node	14130 Nov 29 03:10	14° $\mathbb{Z}$ 00'27	
	14129 Dec 14 17:12	0° $\mathbb{A}$		evening max el	14130 Dec 05 10:19	21° $\mathbb{Z}$ 14'03	23°59'09
evening max el	14129 Dec 23 22:59	10° $\mathbb{A}$ 59'04	25°34'56	retrograde	14130 Dec 19 00:05	27° $\mathbb{Z}$ 59'09	
retrograde	14130 Jan 06 20:18	17° $\mathbb{A}$ 59'04		evening set	14130 Dec 23 20:52	27° $\mathbb{Z}$ 07'31	
evening set	14130 Jan 12 19:26	16° $\mathbb{A}$ 37'15		min. Earth dist.	14130 Dec 29 21:37	24° $\mathbb{Z}$ 09'37	0.55558 AU
min. Earth dist.	14130 Jan 17 11:30	13° $\mathbb{A}$ 58'17	0.57211 AU	inferior conj	14130 Dec 31 21:22	22° $\mathbb{Z}$ 57'48	-5°43'30
inferior conj	14130 Jan 20 08:34	12° $\mathbb{A}$ 00'45	-4°43'52	minimum elong	14131 Jan 01 03:10	22° $\mathbb{Z}$ 49'04	5°41'46
minimum elong	14130 Jan 20 17:33	11° $\mathbb{A}$ 45'27	4°40'38	morning rise	14131 Jan 09 11:16	19° $\mathbb{Z}$ 00'52	
morning rise	14130 Jan 28 18:23	7° $\mathbb{A}$ 44'53		direct	14131 Jan 12 00:13	18° $\mathbb{Z}$ 44'28	
direct	14130 Jan 30 20:54	7° $\mathbb{A}$ 31'27		morning max el	14131 Jan 22 11:26	23° $\mathbb{Z}$ 46'32	20°03'36
asc. node	14130 Feb 05 13:25	9° $\mathbb{A}$ 16'34		asc. node	14131 Jan 23 10:47	24° $\mathbb{Z}$ 45'17	
morning max el	14130 Feb 08 19:48	11° $\mathbb{A}$ 53'16	18°57'04		14131 Jan 27 16:56	0° $\mathbb{A}$	
	14130 Feb 20 22:09	0° $\mathbb{K}$		morning set	14131 Feb 09 11:37	22° $\mathbb{A}$ 57'37	
morning set	14130 Feb 25 06:11	8° $\mathbb{K}$ 22'11			14131 Feb 12 22:08	0° $\mathbb{K}$	
superior conj	14130 Mar 05 18:17	24° $\mathbb{K}$ 57'48	0°36'35	superior conj	14131 Feb 17 05:09	8° $\mathbb{K}$ 42'26	1°01'58
minimum elong	14130 Mar 05 20:28	25° $\mathbb{K}$ 08'12	0°36'26	minimum elong	14131 Feb 17 07:51	8° $\mathbb{K}$ 55'57	1°02'03
	14130 Mar 08 10:33	0° $\mathbb{Y}$		max. Earth dist.	14131 Feb 23 01:35	20° $\mathbb{K}$ 04'53	1.36910 AU
desc. node	14130 Mar 10 07:22	3° $\mathbb{Y}$ 26'12		desc. node	14131 Feb 25 03:53	23° $\mathbb{K}$ 58'46	
max. Earth dist.	14130 Mar 12 19:01	7° $\mathbb{Y}$ 54'33	1.39150 AU	evening rise	14131 Feb 26 19:39	26° $\mathbb{K}$ 59'36	
evening rise	14130 Mar 16 15:21	14° $\mathbb{Y}$ 36'44			14131 Feb 28 12:08	0° $\mathbb{Y}$	
	14130 Mar 26 02:01	0° $\mathbb{B}$			14131 Mar 19 12:33	0° $\mathbb{B}$	
	14130 Apr 16 21:27	0° $\mathbb{I}$		evening max el	14131 Apr 03 07:32	18° $\mathbb{B}$ 00'37	25°38'22
evening max el	14130 Apr 20 17:58	4° $\mathbb{I}$ 07'33	24°23'28	retrograde	14131 Apr 15 17:15	25° $\mathbb{B}$ 09'49	
retrograde	14130 May 02 04:39	10° $\mathbb{I}$ 49'55		asc. node	14131 Apr 21 07:18	23° $\mathbb{B}$ 00'49	
asc. node	14130 May 04 09:55	10° $\mathbb{I}$ 28'16		evening set	14131 Apr 21 16:42	22° $\mathbb{B}$ 41'40	
evening set	14130 May 07 16:53	8° $\mathbb{I}$ 30'20		min. Earth dist.	14131 Apr 25 23:23	18° $\mathbb{B}$ 02'37	0.67658 AU
min. Earth dist.	14130 May 12 06:33	3° $\mathbb{I}$ 15'35	0.68526 AU	inferior conj	14131 Apr 27 10:15	16° $\mathbb{B}$ 11'10	1°47'41
inferior conj	14130 May 13 04:54	2° $\mathbb{I}$ 00'25	2°24'19	minimum elong	14131 Apr 27 08:10	16° $\mathbb{B}$ 17'51	1°46'21
minimum elong	14130 May 13 02:48	2° $\mathbb{I}$ 07'29	2°22'55	morning rise	14131 May 03 00:09	10° $\mathbb{B}$ 20'36	
	14130 May 14 17:20	30° $\mathbb{R}$ $\mathbb{B}$		direct	14131 May 06 10:23	9° $\mathbb{B}$ 13'16	
morning rise	14130 May 18 12:51	26° $\mathbb{B}$ 00'20		morning max el	14131 May 13 05:57	12° $\mathbb{B}$ 54'55	18°58'54
direct	14130 May 22 10:27	24° $\mathbb{B}$ 33'27		desc. node	14131 May 24 05:58	27° $\mathbb{B}$ 13'08	
morning max el	14130 May 29 23:39	28° $\mathbb{B}$ 46'34	19°56'42		14131 May 26 02:40	0° $\mathbb{I}$	
	14130 May 31 04:10	0° $\mathbb{I}$		greatest brilliancy	14131 May 26 12:40	0° $\mathbb{I}$ 37'38	-0.7m
desc. node	14130 Jun 06 09:06	7° $\mathbb{I}$ 38'34		morning set	14131 Jun 05 07:14	15° $\mathbb{I}$ 37'46	
	14130 Jun 21 16:31	0° $\mathbb{E}$			14131 Jun 14 13:24	0° $\mathbb{E}$	
morning set	14130 Jun 26 00:37	6° $\mathbb{E}$ 37'43		max. Earth dist.	14131 Jun 19 08:07	7° $\mathbb{E}$ 27'45	1.45584 AU
max. Earth dist.	14130 Jul 06 15:11	23° $\mathbb{E}$ 10'56	1.44550 AU				
	14130 Jul 10 21:24	0° $\mathbb{O}$		superior conj	14131 Jun 21 15:27	11° $\mathbb{E}$ 04'46	-2°13'42
superior conj	14130 Jul 11 22:14	1° $\mathbb{O}$ 40'26	-2°04'50	minimum elong	14131 Jun 21 15:09	11° $\mathbb{E}$ 03'33	2°14'45
minimum elong	14130 Jul 12 04:15	2° $\mathbb{O}$ 04'53	2°05'28		14131 Jul 03 12:41	0° $\mathbb{O}$	
evening rise	14130 Jul 25 06:25	23° $\mathbb{O}$ 55'08		evening rise	14131 Jul 06 15:13	5° $\mathbb{O}$ 01'36	
	14130 Jul 28 20:05	0° $\mathbb{P}$		asc. node	14131 Jul 18 06:03	23° $\mathbb{O}$ 37'32	
asc. node	14130 Jul 31 09:18	4° $\mathbb{P}$ 18'23			14131 Jul 22 16:46	0° $\mathbb{P}$	
evening max el	14130 Aug 11 20:34	20° $\mathbb{P}$ 45'02	18°05'19	evening max el	14131 Jul 26 10:28	4° $\mathbb{P}$ 21'51	18°24'35
retrograde	14130 Aug 18 06:00	24° $\mathbb{P}$ 05'25		retrograde	14131 Aug 01 20:24	7° $\mathbb{P}$ 47'43	
evening set	14130 Aug 20 22:58	23° $\mathbb{P}$ 27'46		evening set	14131 Aug 04 22:08	6° $\mathbb{P}$ 55'10	
inferior conj	14130 Aug 27 05:26	18° $\mathbb{P}$ 12'37	1°43'41	inferior conj	14131 Aug 10 17:28	1° $\mathbb{P}$ 23'51	2°28'29
minimum elong	14130 Aug 27 07:48	18° $\mathbb{P}$ 06'17	1°42'37	minimum elong	14131 Aug 10 19:47	1° $\mathbb{P}$ 17'00	2°27'21
min. Earth dist.	14130 Aug 30 00:00	15° $\mathbb{P}$ 15'34	0.62810 AU		14131 Aug 11 21:41	30° $\mathbb{R}$ $\mathbb{O}$	
desc. node	14130 Sep 02 06:33	12° $\mathbb{P}$ 16'26		min. Earth dist.	14131 Aug 12 22:41	28° $\mathbb{O}$ 46'54	0.64869 AU
morning rise	14130 Sep 02 14:26	12° $\mathbb{P}$ 01'33		morning rise	14131 Aug 16 16:07	25° $\mathbb{O}$ 02'27	
direct	14130 Sep 09 06:36	9° $\mathbb{P}$ 33'54		desc. node	14131 Aug 20 04:04	22° $\mathbb{O}$ 57'24	
morning max el	14130 Sep 23 07:25	17° $\mathbb{P}$ 35'05	27°53'22	direct	14131 Aug 23 04:39	22° $\mathbb{O}$ 24'25	
	14130 Oct 03 16:33	0° $\mathbb{U}$			14131 Sep 05 09:38	0° $\mathbb{P}$	
	14130 Oct 22 04:45	0° $\mathbb{M}$		morning max el	14131 Sep 05 17:56	0° $\mathbb{P}$ 20'45	27°17'21
					14131 Sep 27 16:59	0° $\mathbb{U}$	

morning set	14131 Oct 11 04:07	24° $\Omega$ 01'42		morning max el	14132 Aug 18 05:07	13° $\Omega$ 31'14	26°14'20
asc. node	14131 Oct 14 08:01	0° $\mathbb{M}$ 19'25			14132 Aug 31 13:49	0° $\mathbb{M}$	
	14131 Oct 14 04:11	0° $\mathbb{M}$			14132 Sep 19 10:13	0° $\Omega$	
max. Earth dist.	14131 Oct 15 14:44	2° $\mathbb{M}$ 56'21	1.33179 AU	morning set	14132 Sep 23 03:52	6° $\Omega$ 48'14	
				max. Earth dist.	14132 Sep 26 23:50	14° $\Omega$ 06'11	1.34911 AU
superior conj	14131 Oct 19 11:04	11° $\mathbb{M}$ 00'19	0°46'48	asc. node	14132 Sep 30 04:37	20° $\Omega$ 26'25	
minimum elong	14131 Oct 19 09:00	10° $\mathbb{M}$ 49'18	0°47'01				
evening rise	14131 Oct 26 12:59	26° $\mathbb{M}$ 12'47		superior conj	14132 Oct 02 07:55	24° $\Omega$ 47'10	0°19'54
	14131 Oct 28 08:03	0° $\mathbb{X}$		minimum elong	14132 Oct 02 06:49	24° $\Omega$ 41'32	0°20'01
	14131 Nov 15 16:11	0° $\mathbb{Z}$			14132 Oct 04 20:23	0° $\mathbb{M}$	
desc. node	14131 Nov 16 00:23	0° $\mathbb{Z}$ 21'31		evening rise	14132 Oct 09 21:47	10° $\mathbb{M}$ 34'56	
evening max el	14131 Nov 16 21:09	1° $\mathbb{Z}$ 13'49	22°16'44		14132 Oct 20 01:01	0° $\mathbb{X}$	
retrograde	14131 Nov 29 15:11	7° $\mathbb{Z}$ 32'49		evening max el	14132 Oct 28 16:54	11° $\mathbb{X}$ 35'48	20°44'30
evening set	14131 Dec 03 03:16	7° $\mathbb{Z}$ 05'48		desc. node	14132 Nov 01 21:42	15° $\mathbb{X}$ 00'37	
min. Earth dist.	14131 Dec 11 03:56	3° $\mathbb{Z}$ 30'32	0.54616 AU	retrograde	14132 Nov 09 01:37	17° $\mathbb{X}$ 14'48	
inferior conj	14131 Dec 11 17:40	3° $\mathbb{Z}$ 11'15	-5°56'11	evening set	14132 Nov 11 10:47	17° $\mathbb{X}$ 01'01	
minimum elong	14131 Dec 11 14:55	3° $\mathbb{Z}$ 15'08	5°54'59	inferior conj	14132 Nov 20 09:07	13° $\mathbb{X}$ 07'03	-5°08'40
	14131 Dec 18 04:46	30° $\mathbb{R}$ $\mathbb{X}$		minimum elong	14132 Nov 19 23:37	13° $\mathbb{X}$ 20'41	5°05'34
morning rise	14131 Dec 20 03:39	29° $\mathbb{X}$ 24'02		min. Earth dist.	14132 Nov 21 09:56	12° $\mathbb{X}$ 31'29	0.54577 AU
direct	14131 Dec 23 12:23	28° $\mathbb{X}$ 58'40		morning rise	14132 Nov 28 12:30	9° $\mathbb{X}$ 11'47	
	14131 Dec 28 13:54	0° $\mathbb{Z}$		direct	14132 Dec 02 20:20	8° $\mathbb{X}$ 31'41	
morning max el	14132 Jan 04 12:17	4° $\mathbb{Z}$ 43'50	21°32'46	morning max el	14132 Dec 16 01:21	14° $\mathbb{X}$ 56'36	23°18'31
asc. node	14132 Jan 10 08:04	11° $\mathbb{Z}$ 31'14		asc. node	14132 Dec 27 05:14	29° $\mathbb{X}$ 17'24	
	14132 Jan 21 03:13	0° $\approx$			14132 Dec 27 15:44	0° $\mathbb{Z}$	
morning set	14132 Jan 24 21:14	7° $\approx$ 41'15		morning set	14133 Jan 08 08:52	22° $\mathbb{Z}$ 26'57	
					14133 Jan 11 20:51	0° $\approx$	
superior conj	14132 Feb 01 02:13	22° $\approx$ 53'18	1°20'26				
minimum elong	14132 Feb 01 04:33	23° $\approx$ 05'29	1°20'53	superior conj	14133 Jan 15 06:22	7° $\approx$ 21'48	1°32'11
	14132 Feb 04 13:18	0° $\mathbb{X}$		minimum elong	14133 Jan 15 07:50	7° $\approx$ 29'45	1°32'59
max. Earth dist.	14132 Feb 05 12:48	1° $\mathbb{X}$ 58'02	1.34883 AU	max. Earth dist.	14133 Jan 18 07:26	13° $\approx$ 51'11	1.33225 AU
evening rise	14132 Feb 09 16:20	10° $\mathbb{X}$ 02'32		evening rise	14133 Jan 23 01:54	23° $\approx$ 36'40	
desc. node	14132 Feb 12 00:26	14° $\mathbb{X}$ 24'19			14133 Jan 26 09:02	0° $\mathbb{X}$	
	14132 Feb 21 01:09	0° $\mathbb{Y}$		desc. node	14133 Jan 28 21:04	4° $\mathbb{X}$ 38'31	
	14132 Mar 14 02:52	0° $\mathbb{Z}$			14133 Feb 13 16:06	0° $\mathbb{Y}$	
evening max el	14132 Mar 15 21:24	1° $\mathbb{Z}$ 47'11	26°39'57	evening max el	14133 Feb 26 10:45	15° $\mathbb{Y}$ 17'01	27°20'48
retrograde	14132 Mar 29 00:18	9° $\mathbb{Z}$ 11'01		retrograde	14133 Mar 12 01:02	22° $\mathbb{Y}$ 45'21	
evening set	14132 Apr 04 09:56	6° $\mathbb{Z}$ 39'00		evening set	14133 Mar 18 18:30	20° $\mathbb{Y}$ 15'22	
asc. node	14132 Apr 07 04:43	3° $\mathbb{Z}$ 59'39		min. Earth dist.	14133 Mar 22 15:00	16° $\mathbb{Y}$ 43'04	0.64692 AU
min. Earth dist.	14132 Apr 08 10:54	2° $\mathbb{Z}$ 34'30	0.66367 AU	inferior conj	14133 Mar 25 02:27	14° $\mathbb{Y}$ 02'09	0°00'13
inferior conj	14132 Apr 10 10:16	0° $\mathbb{Z}$ 13'44	0°59'52	minimum elong	14133 Mar 25 02:27	14° $\mathbb{Y}$ 02'09	0°00'05
minimum elong	14132 Apr 10 08:49	0° $\mathbb{Z}$ 18'04	0°58'54	transit middle	14133 Mar 25 02:27	14° $\mathbb{Y}$ 02'09	0°00'05
	14132 Apr 10 14:53	30° $\mathbb{R}$ $\mathbb{Y}$		transit begin	14133 Mar 24 23:23	14° $\mathbb{Y}$ 10'30	
morning rise	14132 Apr 16 08:49	24° $\mathbb{Y}$ 34'30		transit end	14133 Mar 25 05:31	13° $\mathbb{Y}$ 53'50	
direct	14132 Apr 19 08:45	23° $\mathbb{Y}$ 44'34		asc. node	14133 Mar 25 02:10	14° $\mathbb{Y}$ 02'54	
morning max el	14132 Apr 25 18:34	27° $\mathbb{Y}$ 07'29	18°17'33	morning rise	14133 Mar 31 12:17	8° $\mathbb{Y}$ 36'36	
	14132 Apr 28 09:19	0° $\mathbb{Z}$		direct	14133 Apr 03 03:06	8° $\mathbb{Y}$ 01'04	
desc. node	14132 May 10 02:43	17° $\mathbb{Z}$ 10'25		morning max el	14133 Apr 09 11:12	11° $\mathbb{Y}$ 17'34	17°53'13
morning set	14132 May 15 11:52	25° $\mathbb{Z}$ 44'24			14133 Apr 22 12:28	0° $\mathbb{Z}$	
	14132 May 18 04:04	0° $\mathbb{I}$		morning set	14133 Apr 26 20:41	7° $\mathbb{Z}$ 12'53	
				desc. node	14133 Apr 26 23:23	7° $\mathbb{Z}$ 24'08	
superior conj	14132 May 30 23:29	20° $\mathbb{I}$ 10'53	-2°02'29				
minimum elong	14132 May 30 16:06	19° $\mathbb{I}$ 42'03	2°03'04	superior conj	14133 May 10 15:52	29° $\mathbb{Z}$ 45'24	-1°33'50
max. Earth dist.	14132 Jun 01 04:07	22° $\mathbb{I}$ 02'41	1.45884 AU	minimum elong	14133 May 10 07:05	29° $\mathbb{Z}$ 10'22	1°33'45
	14132 Jun 06 06:34	0° $\mathbb{Z}$			14133 May 10 19:32	0° $\mathbb{I}$	
evening rise	14132 Jun 15 23:29	15° $\mathbb{Z}$ 07'55		max. Earth dist.	14133 May 15 00:19	6° $\mathbb{I}$ 38'49	1.45432 AU
	14132 Jun 25 13:05	0° $\Omega$		evening rise	14133 May 26 14:06	24° $\mathbb{I}$ 35'39	
greatest brilliancy	14132 Jun 26 11:23	1° $\Omega$ 25'15	-0.8m		14133 May 30 03:04	0° $\mathbb{Z}$	
asc. node	14132 Jul 04 02:52	12° $\Omega$ 30'10		greatest brilliancy	14133 Jun 10 06:37	16° $\mathbb{Z}$ 40'11	-0.6m
evening max el	14132 Jul 08 21:03	18° $\Omega$ 07'30	19°01'09		14133 Jun 20 06:50	0° $\Omega$	
retrograde	14132 Jul 15 16:14	21° $\Omega$ 52'14		asc. node	14133 Jun 20 23:45	0° $\Omega$ 46'53	
evening set	14132 Jul 19 03:08	20° $\Omega$ 43'09		evening max el	14133 Jun 22 02:22	1° $\Omega$ 56'16	19°53'43
inferior conj	14132 Jul 24 14:54	14° $\Omega$ 57'15	2°56'08	retrograde	14133 Jun 29 14:42	6° $\Omega$ 11'58	
minimum elong	14132 Jul 24 16:29	14° $\Omega$ 52'09	2°55'05	evening set	14133 Jul 03 11:17	4° $\Omega$ 45'51	
min. Earth dist.	14132 Jul 26 05:37	12° $\Omega$ 53'37	0.66569 AU		14133 Jul 07 20:48	30° $\mathbb{R}$ $\mathbb{Z}$	
morning rise	14132 Jul 30 05:09	8° $\Omega$ 32'29		inferior conj	14133 Jul 08 18:41	28° $\mathbb{Z}$ 46'45	3°09'28
direct	14132 Aug 05 09:41	5° $\Omega$ 53'41		minimum elong	14133 Jul 08 19:18	28° $\mathbb{Z}$ 44'41	3°08'27
desc. node	14132 Aug 06 01:31	5° $\Omega$ 55'19		min. Earth dist.	14133 Jul 09 19:08	27° $\mathbb{Z}$ 24'20	0.67840 AU

morning rise	14133 Jul 14 02:57	22° $\text{♄}$ 23'15		minimum elong	14134 Jun 23 02:03	12° $\text{♄}$ 49'48	3°09'28
direct	14133 Jul 19 20:46	19° $\text{♄}$ 52'01		min. Earth dist.	14134 Jun 23 13:15	12° $\text{♄}$ 10'54	0.68649 AU
desc. node	14133 Jul 23 22:54	20° $\text{♄}$ 54'50		morning rise	14134 Jun 28 07:15	6° $\text{♄}$ 29'17	
morning max el	14133 Jul 31 15:49	26° $\text{♄}$ 56'07	24°53'24	direct	14134 Jul 03 12:58	4° $\text{♄}$ 11'53	
	14133 Aug 03 12:21	0° $\text{♄}$		desc. node	14134 Jul 10 20:11	7° $\text{♄}$ 30'31	
	14133 Aug 25 04:28	0° $\text{♄}$		morning max el	14134 Jul 14 02:30	10° $\text{♄}$ 29'41	23°24'20
morning set	14133 Sep 05 10:59	18° $\text{♄}$ 48'53			14134 Jul 29 13:57	0° $\text{♄}$	
max. Earth dist.	14133 Sep 09 00:40	25° $\text{♄}$ 14'41	1.37051 AU	morning set	14134 Aug 17 21:02	29° $\text{♄}$ 53'35	
	14133 Sep 11 14:03	0° $\text{♄}$			14134 Aug 17 22:34	0° $\text{♄}$	
				max. Earth dist.	14134 Aug 21 22:27	6° $\text{♄}$ 49'03	1.39406 AU
superior conj	14133 Sep 15 18:29	8° $\text{♄}$ 02'38	-0°11'48	superior conj	14134 Aug 29 15:04	20° $\text{♄}$ 38'33	-0°46'42
minimum elong	14133 Sep 15 19:14	8° $\text{♄}$ 06'21	0°11'37	minimum elong	14134 Aug 29 18:30	20° $\text{♄}$ 54'30	0°46'23
behind sun begin	14133 Sep 15 14:38	7° $\text{♄}$ 43'50		asc. node	14134 Sep 03 21:42	0° $\text{♄}$ 37'53	
behind sun end	14133 Sep 15 23:50	8° $\text{♄}$ 28'55			14134 Sep 03 13:49	0° $\text{♄}$	
asc. node	14133 Sep 17 01:09	10° $\text{♄}$ 33'36		evening rise	14134 Sep 07 23:25	8° $\text{♄}$ 30'15	
evening rise	14133 Sep 24 02:11	24° $\text{♄}$ 43'01			14134 Sep 20 05:10	0° $\text{♄}$	
	14133 Sep 26 17:40	0° $\text{♄}$		evening max el	14134 Sep 24 01:40	4° $\text{♄}$ 38'30	18°41'29
evening max el	14133 Oct 11 02:43	22° $\text{♄}$ 42'48	19°31'59	retrograde	14134 Oct 02 07:26	8° $\text{♄}$ 47'37	
desc. node	14133 Oct 19 19:05	27° $\text{♄}$ 31'21		evening set	14134 Oct 04 05:26	8° $\text{♄}$ 34'56	
retrograde	14133 Oct 20 20:04	27° $\text{♄}$ 34'34		desc. node	14134 Oct 06 16:32	7° $\text{♄}$ 44'22	
evening set	14133 Oct 22 17:23	27° $\text{♄}$ 24'23		inferior conj	14134 Oct 12 06:53	4° $\text{♄}$ 10'40	-1°46'58
inferior conj	14133 Oct 31 10:16	23° $\text{♄}$ 18'55	-3°35'12	minimum elong	14134 Oct 12 02:30	4° $\text{♄}$ 18'48	1°44'43
minimum elong	14133 Oct 31 01:21	23° $\text{♄}$ 33'10	3°31'19	min. Earth dist.	14134 Oct 15 09:52	1° $\text{♄}$ 52'08	0.57103 AU
min. Earth dist.	14133 Nov 02 19:02	21° $\text{♄}$ 48'22	0.55457 AU		14134 Oct 18 06:36	30° $\text{♄}$	
morning rise	14133 Nov 08 07:20	18° $\text{♄}$ 55'40		morning rise	14134 Oct 19 20:12	29° $\text{♄}$ 10'16	
direct	14133 Nov 13 12:22	17° $\text{♄}$ 54'55		direct	14134 Oct 25 18:49	27° $\text{♄}$ 43'27	
morning max el	14133 Nov 27 10:57	24° $\text{♄}$ 53'58	25°06'32		14134 Nov 02 09:42	0° $\text{♄}$	
	14133 Dec 02 04:24	0° $\text{♄}$		morning max el	14134 Nov 09 00:50	5° $\text{♄}$ 09'28	26°37'58
asc. node	14133 Dec 14 02:18	17° $\text{♄}$ 48'37			14134 Nov 27 04:16	0° $\text{♄}$	
	14133 Dec 20 10:58	0° $\text{♄}$		asc. node	14134 Nov 30 23:15	6° $\text{♄}$ 53'23	
morning set	14133 Dec 23 20:39	7° $\text{♄}$ 08'59		morning set	14134 Dec 08 06:53	21° $\text{♄}$ 42'42	
					14134 Dec 12 01:52	0° $\text{♄}$	
superior conj	14133 Dec 30 15:01	22° $\text{♄}$ 00'13	1°37'35	superior conj	14134 Dec 15 02:04	6° $\text{♄}$ 42'24	1°36'55
minimum elong	14133 Dec 30 15:26	22° $\text{♄}$ 02'29	1°38'36	minimum elong	14134 Dec 15 01:25	6° $\text{♄}$ 38'45	1°37'58
max. Earth dist.	14134 Jan 01 09:11	25° $\text{♄}$ 51'43	1.32024 AU	max. Earth dist.	14134 Dec 15 15:47	7° $\text{♄}$ 58'54	1.31325 AU
	14134 Jan 03 06:59	0° $\text{♄}$		evening rise	14134 Dec 21 23:35	21° $\text{♄}$ 47'56	
evening rise	14134 Jan 06 21:11	7° $\text{♄}$ 33'55			14134 Dec 25 23:26	0° $\text{♄}$	
desc. node	14134 Jan 15 17:46	24° $\text{♄}$ 35'37		desc. node	14135 Jan 02 14:34	14° $\text{♄}$ 08'26	
	14134 Jan 18 20:38	0° $\text{♄}$			14135 Jan 12 23:15	0° $\text{♄}$	
evening max el	14134 Feb 08 21:50	28° $\text{♄}$ 17'49	27°34'11	evening max el	14135 Jan 22 04:25	10° $\text{♄}$ 37'44	27°14'42
	14134 Feb 10 18:46	0° $\text{♄}$		retrograde	14135 Feb 05 04:02	17° $\text{♄}$ 54'49	
retrograde	14134 Feb 22 18:42	5° $\text{♄}$ 43'17		evening set	14135 Feb 11 23:06	15° $\text{♄}$ 51'55	
evening set	14134 Mar 01 15:56	3° $\text{♄}$ 22'42		min. Earth dist.	14135 Feb 15 18:57	13° $\text{♄}$ 06'53	0.60532 AU
min. Earth dist.	14134 Mar 05 10:03	0° $\text{♄}$ 17'58	0.62703 AU	inferior conj	14135 Feb 18 22:57	10° $\text{♄}$ 25'05	-2°32'46
	14134 Mar 05 17:41	30° $\text{♄}$		minimum elong	14135 Feb 19 04:29	10° $\text{♄}$ 13'14	2°30'10
inferior conj	14134 Mar 08 07:49	27° $\text{♄}$ 29'00	-1°11'16	morning rise	14135 Feb 26 13:07	5° $\text{♄}$ 34'53	
minimum elong	14134 Mar 08 10:13	27° $\text{♄}$ 23'11	1°10'08	asc. node	14135 Feb 26 21:06	5° $\text{♄}$ 29'49	
asc. node	14134 Mar 11 23:37	24° $\text{♄}$ 13'15		direct	14135 Feb 28 14:56	5° $\text{♄}$ 17'32	
morning rise	14134 Mar 15 07:14	22° $\text{♄}$ 19'49		morning max el	14135 Mar 07 20:23	8° $\text{♄}$ 54'41	17°57'51
direct	14134 Mar 17 14:22	21° $\text{♄}$ 55'13			14135 Mar 21 14:07	0° $\text{♄}$	
morning max el	14134 Mar 24 04:57	25° $\text{♄}$ 16'44	17°46'24	morning set	14135 Mar 23 10:09	3° $\text{♄}$ 21'29	
	14134 Mar 28 04:01	0° $\text{♄}$		desc. node	14135 Mar 31 16:31	18° $\text{♄}$ 21'07	
morning set	14134 Apr 09 06:11	19° $\text{♄}$ 51'41					
desc. node	14134 Apr 13 19:59	27° $\text{♄}$ 49'19		superior conj	14135 Apr 02 18:34	22° $\text{♄}$ 01'37	-0°16'38
	14134 Apr 15 02:20	0° $\text{♄}$		minimum elong	14135 Apr 02 17:07	21° $\text{♄}$ 55'17	0°16'41
superior conj	14134 Apr 21 05:16	10° $\text{♄}$ 20'40	-0°55'53		14135 Apr 07 09:55	0° $\text{♄}$	
minimum elong	14134 Apr 20 23:47	9° $\text{♄}$ 57'55	0°55'42	max. Earth dist.	14135 Apr 10 06:56	4° $\text{♄}$ 48'12	1.42561 AU
max. Earth dist.	14134 Apr 27 17:48	20° $\text{♄}$ 58'51	1.44281 AU	evening rise	14135 Apr 16 02:13	14° $\text{♄}$ 11'42	
	14134 May 03 10:50	0° $\text{♄}$			14135 Apr 26 09:24	0° $\text{♄}$	
evening rise	14134 May 06 02:03	4° $\text{♄}$ 04'57		evening max el	14135 May 18 20:01	29° $\text{♄}$ 36'50	22°16'19
	14134 May 23 13:24	0° $\text{♄}$			14135 May 19 05:23	0° $\text{♄}$	
evening max el	14134 Jun 05 01:45	15° $\text{♄}$ 46'11	21°00'00	asc. node	14135 May 25 17:53	4° $\text{♄}$ 42'55	
asc. node	14134 Jun 07 20:46	18° $\text{♄}$ 16'19		retrograde	14135 May 28 11:20	5° $\text{♄}$ 16'29	
retrograde	14134 Jun 13 13:40	20° $\text{♄}$ 42'03		evening set	14135 Jun 02 05:18	3° $\text{♄}$ 17'49	
evening set	14134 Jun 17 20:35	18° $\text{♄}$ 59'08			14135 Jun 05 06:16	30° $\text{♄}$	
inferior conj	14134 Jun 23 02:26	12° $\text{♄}$ 48'28	3°10'33				

inferior conj	14135 Jun 07 11:59	26° $\Pi$ 57'34	3°00'43	evening set	14136 May 16 11:50	17° $\Pi$ 37'24	
minimum elong	14135 Jun 07 10:43	27° $\Pi$ 01'57	2°59'31	inferior conj	14136 May 21 21:25	11° $\Pi$ 10'13	2°40'34
min. Earth dist.	14135 Jun 07 09:43	27° $\Pi$ 05'26	0.68980 AU	minimum elong	14136 May 21 19:32	11° $\Pi$ 16'42	2°39'13
morning rise	14135 Jun 12 15:58	20° $\Pi$ 44'44		min. Earth dist.	14136 May 21 06:24	12° $\Pi$ 01'45	0.68834 AU
direct	14135 Jun 17 09:06	18° $\Pi$ 45'31		morning rise	14136 May 27 03:11	5° $\Pi$ 05'12	
morning max el	14135 Jun 26 15:33	24° $\Pi$ 10'49	21°56'19	direct	14136 May 31 07:50	3° $\Pi$ 26'18	
desc. node	14135 Jun 27 17:21	25° $\Pi$ 17'26		morning max el	14136 Jun 08 10:12	8° $\Pi$ 02'34	20°36'40
	14135 Jul 01 19:25	0° $\mathfrak{C}$		desc. node	14136 Jun 13 14:26	13° $\Pi$ 56'35	
	14135 Jul 22 23:06	0° $\mathcal{O}$			14136 Jun 25 04:24	0° $\mathfrak{C}$	
morning set	14135 Jul 29 06:33	9° $\mathcal{O}$ 53'51		morning set	14136 Jul 07 17:38	18° $\mathfrak{C}$ 56'57	
max. Earth dist.	14135 Aug 03 23:45	19° $\mathcal{O}$ 12'51	1.41706 AU		14136 Jul 14 18:21	0° $\mathcal{O}$	
	14135 Aug 10 08:06	0° $\mathfrak{M}$		max. Earth dist.	14136 Jul 16 08:12	2° $\mathcal{O}$ 31'41	1.43671 AU
superior conj	14135 Aug 11 17:22	2° $\mathfrak{M}$ 25'18	-1°21'48	superior conj	14136 Jul 22 21:16	13° $\mathcal{O}$ 14'10	-1°52'09
minimum elong	14135 Aug 11 23:36	2° $\mathfrak{M}$ 52'44	1°21'32	minimum elong	14136 Jul 23 04:35	13° $\mathcal{O}$ 44'40	1°52'22
asc. node	14135 Aug 21 18:17	20° $\mathfrak{M}$ 35'27			14136 Aug 01 16:50	0° $\mathfrak{M}$	
evening rise	14135 Aug 22 09:53	21° $\mathfrak{M}$ 47'27		evening rise	14136 Aug 04 05:01	4° $\mathfrak{M}$ 23'26	
	14135 Aug 26 21:27	0° $\mathfrak{L}$		asc. node	14136 Aug 07 14:54	10° $\mathfrak{M}$ 22'10	
evening max el	14135 Sep 07 09:53	17° $\mathfrak{L}$ 15'07	18°12'06		14136 Aug 20 14:19	0° $\mathfrak{L}$	
retrograde	14135 Sep 14 13:49	20° $\mathfrak{L}$ 53'57		evening max el	14136 Aug 20 23:07	0° $\mathfrak{L}$ 22'15	18°02'23
evening set	14135 Sep 16 18:07	20° $\mathfrak{L}$ 34'17		retrograde	14136 Aug 27 12:15	3° $\mathfrak{L}$ 45'16	
desc. node	14135 Sep 23 14:01	16° $\mathfrak{L}$ 13'09		evening set	14136 Aug 30 00:31	3° $\mathfrak{L}$ 14'57	
inferior conj	14135 Sep 24 01:15	15° $\mathfrak{L}$ 48'54	-0°08'48		14136 Sep 03 17:20	30° $\mathfrak{R}$ $\mathfrak{M}$	
minimum elong	14135 Sep 24 00:56	15° $\mathfrak{L}$ 49'34	0°08'30	inferior conj	14136 Sep 05 14:59	28° $\mathfrak{M}$ 09'43	1°08'53
transit middle	14135 Sep 24 00:56	15° $\mathfrak{L}$ 49'34	0°08'30	minimum elong	14136 Sep 05 16:51	28° $\mathfrak{M}$ 05'01	1°08'05
transit begin	14135 Sep 23 22:02	15° $\mathfrak{L}$ 55'52		min. Earth dist.	14136 Sep 08 15:41	25° $\mathfrak{M}$ 09'33	0.61523 AU
transit end	14135 Sep 24 03:51	15° $\mathfrak{L}$ 43'14		desc. node	14136 Sep 09 11:33	24° $\mathfrak{M}$ 23'23	
min. Earth dist.	14135 Sep 27 08:12	12° $\mathfrak{L}$ 58'55	0.59229 AU	morning rise	14136 Sep 12 06:34	22° $\mathfrak{M}$ 09'02	
morning rise	14135 Oct 01 04:22	10° $\mathfrak{L}$ 14'05		direct	14136 Sep 18 22:27	19° $\mathfrak{M}$ 51'55	
direct	14135 Oct 07 14:59	8° $\mathfrak{L}$ 20'08		morning max el	14136 Oct 03 02:57	27° $\mathfrak{M}$ 49'12	27°58'50
morning max el	14135 Oct 21 22:19	16° $\mathfrak{L}$ 05'26	27°37'45		14136 Oct 05 05:19	0° $\mathfrak{L}$	
	14135 Nov 02 07:59	0° $\mathfrak{M}$			14136 Oct 26 02:49	0° $\mathfrak{M}$	
asc. node	14135 Nov 17 20:09	26° $\mathfrak{M}$ 22'42		asc. node	14136 Nov 03 16:55	16° $\mathfrak{M}$ 08'54	
	14135 Nov 19 15:40	0° $\mathfrak{X}$		morning set	14136 Nov 05 15:22	20° $\mathfrak{M}$ 05'35	
morning set	14135 Nov 22 13:48	6° $\mathfrak{X}$ 03'29			14136 Nov 10 07:13	0° $\mathfrak{X}$	
max. Earth dist.	14135 Nov 29 00:02	20° $\mathfrak{X}$ 06'41	1.31147 AU	max. Earth dist.	14136 Nov 11 06:02	2° $\mathfrak{X}$ 04'40	1.31508 AU
superior conj	14135 Nov 29 13:38	21° $\mathfrak{X}$ 22'41	1°30'22	superior conj	14136 Nov 12 23:48	5° $\mathfrak{X}$ 54'48	1°17'59
minimum elong	14135 Nov 29 12:05	21° $\mathfrak{X}$ 13'59	1°31'16	minimum elong	14136 Nov 12 21:39	5° $\mathfrak{X}$ 42'54	1°18'37
	14135 Dec 03 10:29	0° $\mathfrak{Z}$		evening rise	14136 Nov 19 16:56	20° $\mathfrak{X}$ 43'05	
evening rise	14135 Dec 06 06:51	6° $\mathfrak{Z}$ 13'03			14136 Nov 24 03:15	0° $\mathfrak{Z}$	
	14135 Dec 18 14:00	0° $\mathfrak{A}$		desc. node	14136 Dec 06 08:29	21° $\mathfrak{Z}$ 19'47	
desc. node	14135 Dec 20 11:27	3° $\mathfrak{A}$ 07'42			14136 Dec 13 02:50	0° $\mathfrak{A}$	
evening max el	14136 Jan 04 04:04	22° $\mathfrak{A}$ 07'54	26°20'31	evening max el	14136 Dec 15 19:09	2° $\mathfrak{A}$ 45'28	24°56'14
retrograde	14136 Jan 18 03:07	29° $\mathfrak{A}$ 13'44		retrograde	14136 Dec 29 13:49	9° $\mathfrak{A}$ 39'10	
evening set	14136 Jan 24 12:15	27° $\mathfrak{A}$ 35'43		evening set	14137 Jan 04 03:14	8° $\mathfrak{A}$ 30'17	
min. Earth dist.	14136 Jan 28 17:35	24° $\mathfrak{A}$ 58'55	0.58365 AU	min. Earth dist.	14137 Jan 09 07:04	5° $\mathfrak{A}$ 45'52	0.56442 AU
inferior conj	14136 Jan 31 20:15	22° $\mathfrak{A}$ 41'00	-3°58'00	inferior conj	14137 Jan 11 20:50	4° $\mathfrak{A}$ 06'44	-5°13'17
minimum elong	14136 Feb 01 04:39	22° $\mathfrak{A}$ 25'26	3°54'34	minimum elong	14137 Jan 12 05:13	3° $\mathfrak{A}$ 53'14	5°10'36
morning rise	14136 Feb 09 00:04	18° $\mathfrak{A}$ 12'00		morning rise	14137 Jan 20 09:27	29° $\mathfrak{Z}$ 59'29	
direct	14136 Feb 11 00:35	17° $\mathfrak{A}$ 58'10			14137 Jan 20 08:28	30° $\mathfrak{R}$ $\mathfrak{Z}$	
asc. node	14136 Feb 13 18:33	18° $\mathfrak{A}$ 25'03		direct	14137 Jan 22 15:26	29° $\mathfrak{Z}$ 45'18	
morning max el	14136 Feb 19 05:45	22° $\mathfrak{A}$ 01'02	18°29'10		14137 Jan 24 20:58	0° $\mathfrak{A}$	
	14136 Feb 25 10:15	0° $\mathfrak{H}$		asc. node	14137 Jan 30 15:57	3° $\mathfrak{A}$ 00'37	
morning set	14136 Mar 06 03:12	17° $\mathfrak{H}$ 26'30		morning max el	14137 Feb 01 04:52	4° $\mathfrak{A}$ 23'06	19°22'30
	14136 Mar 12 16:57	0° $\mathfrak{Y}$			14137 Feb 17 06:15	0° $\mathfrak{H}$	
				morning set	14137 Feb 18 05:01	1° $\mathfrak{H}$ 53'23	
superior conj	14136 Mar 15 05:08	4° $\mathfrak{Y}$ 40'37	0°18'52	superior conj	14137 Feb 26 08:23	18° $\mathfrak{H}$ 04'33	0°48'12
minimum elong	14136 Mar 15 06:26	4° $\mathfrak{Y}$ 46'39	0°18'40	minimum elong	14137 Feb 26 10:55	18° $\mathfrak{H}$ 16'54	0°48'06
desc. node	14136 Mar 17 13:02	8° $\mathfrak{Y}$ 56'10		desc. node	14137 Mar 04 09:33	29° $\mathfrak{H}$ 30'25	
max. Earth dist.	14136 Mar 22 15:59	17° $\mathfrak{Y}$ 59'18	1.40459 AU		14137 Mar 04 16:02	0° $\mathfrak{Y}$	
evening rise	14136 Mar 26 22:31	25° $\mathfrak{Y}$ 12'53			14137 Mar 04 22:33	0° $\mathfrak{Y}$ 29'45	1.38191 AU
	14136 Mar 29 20:42	0° $\mathfrak{B}$		max. Earth dist.	14137 Mar 08 15:44	7° $\mathfrak{Y}$ 07'18	
	14136 Apr 19 03:32	0° $\Pi$		evening rise	14137 Mar 22 18:49	0° $\mathfrak{B}$	
evening max el	14136 Apr 30 11:00	13° $\Pi$ 29'12	23°37'17		14137 Mar 22 18:49	0° $\mathfrak{B}$	
retrograde	14136 May 11 06:15	19° $\Pi$ 50'06		evening max el	14137 Apr 13 00:35	27° $\mathfrak{B}$ 22'30	24°56'25
asc. node	14136 May 11 15:07	19° $\Pi$ 49'30			14137 Apr 15 21:22	0° $\Pi$	

retrograde	14137 Apr 24 21:23	4° $\Pi$ 17'04		retrograde	14138 Apr 08 07:47	18° $\mathcal{B}$ 30'14	
asc. node	14137 Apr 28 12:26	3° $\Pi$ 20'31		evening set	14138 Apr 14 11:53	15° $\mathcal{B}$ 59'25	
evening set	14137 Apr 30 14:37	1° $\Pi$ 53'13		asc. node	14138 Apr 15 09:50	15° $\mathcal{B}$ 10'48	
	14137 May 02 12:28	30° $\mathcal{R}$ 8		min. Earth dist.	14138 Apr 18 15:50	11° $\mathcal{B}$ 35'35	0.67158 AU
min. Earth dist.	14137 May 05 01:08	26° $\mathcal{B}$ 54'01	0.68219 AU	inferior conj	14138 Apr 20 08:11	9° $\mathcal{B}$ 30'19	1°28'49
inferior conj	14137 May 06 04:50	25° $\mathcal{B}$ 22'39	2°10'05	minimum elong	14138 Apr 20 06:16	9° $\mathcal{B}$ 36'16	1°27'35
minimum elong	14137 May 06 02:41	25° $\mathcal{B}$ 29'47	2°08'41	morning rise	14138 Apr 26 01:27	3° $\mathcal{B}$ 44'37	
morning rise	14137 May 11 15:01	19° $\mathcal{B}$ 26'40		direct	14138 Apr 29 07:07	2° $\mathcal{B}$ 45'10	
direct	14137 May 15 07:44	18° $\mathcal{B}$ 08'16		morning max el	14138 May 05 21:38	6° $\mathcal{B}$ 17'19	18°39'16
morning max el	14137 May 22 12:20	22° $\mathcal{B}$ 05'57	19°30'10	desc. node	14138 May 18 08:14	22° $\mathcal{B}$ 59'07	
	14137 May 29 03:10	0° $\Pi$			14138 May 22 21:09	0° $\Pi$	
desc. node	14137 May 31 11:24	3° $\Pi$ 14'00		morning set	14138 May 27 10:05	7° $\Pi$ 05'30	
greatest brilliancy	14137 Jun 04 03:22	8° $\Pi$ 31'11	-0.7m		14138 Jun 11 02:11	0° $\mathcal{E}$	
morning set	14137 Jun 16 19:48	27° $\Pi$ 41'38		max. Earth dist.	14138 Jun 11 17:26	0° $\mathcal{E}$ 59'31	1.45800 AU
	14137 Jun 18 07:46	0° $\mathcal{E}$					
max. Earth dist.	14137 Jun 28 22:56	16° $\mathcal{E}$ 33'11	1.45078 AU	superior conj	14138 Jun 12 12:59	2° $\mathcal{E}$ 15'51	-2°11'25
				minimum elong	14138 Jun 12 09:17	2° $\mathcal{E}$ 01'25	2°12'23
superior conj	14137 Jul 03 01:40	23° $\mathcal{E}$ 04'40	-2°10'54	evening rise	14138 Jun 28 01:50	26° $\mathcal{E}$ 45'56	
minimum elong	14137 Jul 03 05:33	23° $\mathcal{E}$ 20'11	2°11'47		14138 Jun 30 02:32	0° $\mathcal{Q}$	
	14137 Jul 07 08:59	0° $\mathcal{Q}$		greatest brilliancy	14138 Jul 05 07:38	8° $\mathcal{Q}$ 17'21	-0.9m
evening rise	14137 Jul 17 03:40	16° $\mathcal{Q}$ 05'56		asc. node	14138 Jul 12 08:20	19° $\mathcal{Q}$ 02'12	
asc. node	14137 Jul 25 11:35	29° $\mathcal{Q}$ 53'21		evening max el	14138 Jul 19 02:20	27° $\mathcal{Q}$ 31'33	18°38'03
	14137 Jul 25 13:14	0° $\mathcal{P}$			14138 Jul 22 04:07	0° $\mathcal{P}$	
evening max el	14137 Aug 04 13:39	13° $\mathcal{P}$ 50'39	18°11'18	retrograde	14138 Jul 25 15:22	1° $\mathcal{P}$ 04'17	
retrograde	14137 Aug 10 22:12	17° $\mathcal{P}$ 11'56		evening set	14138 Jul 28 20:50	0° $\mathcal{P}$ 04'59	
evening set	14137 Aug 13 18:51	16° $\mathcal{P}$ 28'09			14138 Jul 29 00:03	30° $\mathcal{R}$ 8	
inferior conj	14137 Aug 19 20:05	11° $\mathcal{P}$ 05'34	2°04'59	inferior conj	14138 Aug 03 12:32	24° $\mathcal{Q}$ 27'13	2°42'08
minimum elong	14137 Aug 19 22:33	10° $\mathcal{P}$ 58'41	2°03'52	minimum elong	14138 Aug 03 14:36	24° $\mathcal{Q}$ 20'53	2°41'01
min. Earth dist.	14137 Aug 22 09:06	8° $\mathcal{P}$ 15'20	0.63718 AU	min. Earth dist.	14138 Aug 05 11:38	22° $\mathcal{Q}$ 02'59	0.65638 AU
morning rise	14137 Aug 26 00:29	4° $\mathcal{P}$ 48'58		morning rise	14138 Aug 09 07:18	18° $\mathcal{Q}$ 03'21	
desc. node	14137 Aug 27 09:05	3° $\mathcal{P}$ 52'13		desc. node	14138 Aug 14 06:35	15° $\mathcal{Q}$ 31'17	
direct	14137 Sep 01 15:31	2° $\mathcal{P}$ 16'03		direct	14138 Aug 15 16:44	15° $\mathcal{Q}$ 23'49	
morning max el	14137 Sep 15 12:22	10° $\mathcal{P}$ 16'33	27°42'01	morning max el	14138 Aug 28 23:35	23° $\mathcal{Q}$ 14'52	26°53'17
	14137 Oct 01 00:25	0° $\mathcal{L}$			14138 Sep 03 23:40	0° $\mathcal{P}$	
	14137 Oct 18 11:48	0° $\mathcal{M}$			14138 Sep 24 08:14	0° $\mathcal{L}$	
morning set	14137 Oct 20 09:17	3° $\mathcal{M}$ 44'17		morning set	14138 Oct 03 16:38	16° $\mathcal{L}$ 52'05	
asc. node	14137 Oct 21 13:38	6° $\mathcal{M}$ 06'54		max. Earth dist.	14138 Oct 07 20:38	25° $\mathcal{L}$ 02'53	1.33855 AU
max. Earth dist.	14137 Oct 25 06:01	13° $\mathcal{M}$ 45'06	1.32415 AU	asc. node	14138 Oct 08 10:15	26° $\mathcal{L}$ 11'35	
					14138 Oct 10 06:57	0° $\mathcal{M}$	
superior conj	14137 Oct 28 06:38	20° $\mathcal{M}$ 14'07	0°59'50	superior conj	14138 Oct 12 07:50	4° $\mathcal{M}$ 14'23	0°36'01
minimum elong	14137 Oct 28 04:21	20° $\mathcal{M}$ 01'47	1°00'11	minimum elong	14138 Oct 12 06:04	4° $\mathcal{M}$ 05'10	0°36'11
	14137 Nov 01 18:05	0° $\mathcal{X}$		evening rise	14138 Oct 19 14:12	19° $\mathcal{M}$ 40'09	
evening rise	14137 Nov 04 04:02	5° $\mathcal{X}$ 13'53			14138 Oct 24 15:15	0° $\mathcal{X}$	
	14137 Nov 17 04:35	0° $\mathcal{Z}$		evening max el	14138 Nov 08 18:18	22° $\mathcal{X}$ 52'37	21°35'28
desc. node	14137 Nov 23 05:36	8° $\mathcal{Z}$ 27'33		desc. node	14138 Nov 10 02:49	24° $\mathcal{X}$ 08'23	
evening max el	14137 Nov 27 04:52	12° $\mathcal{Z}$ 48'06	23°15'09	retrograde	14138 Nov 21 00:05	28° $\mathcal{X}$ 56'42	
retrograde	14137 Dec 10 11:49	19° $\mathcal{Z}$ 24'19		evening set	14138 Nov 23 22:49	28° $\mathcal{X}$ 36'56	
evening set	14137 Dec 14 19:09	18° $\mathcal{Z}$ 44'02		inferior conj	14138 Dec 02 17:57	24° $\mathcal{X}$ 44'06	-5°43'16
min. Earth dist.	14137 Dec 21 14:45	15° $\mathcal{Z}$ 32'28	0.55057 AU	minimum elong	14138 Dec 02 11:33	24° $\mathcal{X}$ 53'04	5°41'24
inferior conj	14137 Dec 23 01:30	14° $\mathcal{Z}$ 42'13	-5°55'54	min. Earth dist.	14138 Dec 02 20:45	24° $\mathcal{X}$ 40'11	0.54477 AU
minimum elong	14137 Dec 23 04:04	14° $\mathcal{Z}$ 38'30	5°54'44	morning rise	14138 Dec 11 01:03	20° $\mathcal{X}$ 55'45	
morning rise	14137 Dec 31 14:35	10° $\mathcal{Z}$ 51'32		direct	14138 Dec 14 19:19	20° $\mathcal{X}$ 24'57	
direct	14138 Jan 03 11:02	10° $\mathcal{Z}$ 32'09		morning max el	14138 Dec 27 09:27	26° $\mathcal{X}$ 28'21	22°16'30
morning max el	14138 Jan 14 14:14	15° $\mathcal{Z}$ 52'02	20°39'04		14138 Dec 30 17:09	0° $\mathcal{Z}$	
asc. node	14138 Jan 17 13:17	19° $\mathcal{Z}$ 03'46		asc. node	14139 Jan 04 10:30	6° $\mathcal{Z}$ 17'18	
	14138 Jan 24 22:57	0° $\approx$			14139 Jan 17 08:24	0° $\approx$	
morning set	14138 Feb 02 12:29	16° $\approx$ 32'43		morning set	14139 Jan 17 23:10	1° $\approx$ 17'47	
	14138 Feb 09 00:15	0° $\mathcal{H}$					
superior conj	14138 Feb 09 23:59	2° $\mathcal{H}$ 01'21	1°10'38	superior conj	14139 Jan 25 00:24	16° $\approx$ 20'57	1°26'12
minimum elong	14138 Feb 10 02:37	2° $\mathcal{H}$ 14'45	1°10'52	minimum elong	14139 Jan 25 02:25	16° $\approx$ 31'36	1°26'50
max. Earth dist.	14138 Feb 15 06:30	12° $\mathcal{H}$ 29'44	1.36006 AU	max. Earth dist.	14139 Jan 28 20:20	24° $\approx$ 19'48	1.34117 AU
evening rise	14138 Feb 19 03:20	19° $\mathcal{H}$ 47'36			14139 Jan 31 16:02	0° $\mathcal{H}$	
desc. node	14138 Feb 19 06:05	20° $\mathcal{H}$ 00'14		evening rise	14139 Feb 02 05:54	3° $\mathcal{H}$ 05'04	
	14138 Feb 24 21:16	0° $\mathcal{Y}$		desc. node	14139 Feb 06 02:39	10° $\mathcal{H}$ 21'43	
	14138 Mar 16 19:52	0° $\mathcal{B}$			14139 Feb 17 18:29	0° $\mathcal{Y}$	
evening max el	14138 Mar 26 14:04	11° $\mathcal{B}$ 12'57	26°06'34	evening max el	14139 Mar 09 03:44	24° $\mathcal{Y}$ 53'45	27°00'20

	14139 Mar 15 11:33	0°♄		minimum elong	14140 Jan 09 07:45	1°♁00'05	1°36'09
retrograde	14139 Mar 22 12:31	2°♄21'35		max. Earth dist.	14140 Jan 11 18:03	6°♁15'15	1.32651 AU
	14139 Mar 28 20:17	30°♄♂		evening rise	14140 Jan 16 19:57	16°♁50'10	
evening set	14139 Mar 29 01:44	29°♄49'32		desc. node	14140 Jan 23 23:16	0°♄29'25	
min. Earth dist.	14139 Apr 02 00:32	25°♄59'04	0.65689 AU		14140 Jan 23 16:46	0°♄	
asc. node	14139 Apr 02 07:14	25°♄40'13			14140 Feb 12 06:26	0°♄	
inferior conj	14139 Apr 04 05:12	23°♄28'11	0°36'05	evening max el	14140 Feb 19 16:32	8°♄13'25	27°30'23
minimum elong	14139 Apr 04 04:15	23°♄30'55	0°35'24	retrograde	14140 Mar 04 10:25	15°♄41'16	
morning rise	14139 Apr 10 08:14	17°♄54'30		evening set	14140 Mar 11 05:52	13°♄14'41	
direct	14139 Apr 13 04:01	17°♄11'15		min. Earth dist.	14140 Mar 15 01:08	9°♄54'31	0.63872 AU
morning max el	14139 Apr 19 12:19	20°♄30'24	18°05'06	inferior conj	14140 Mar 17 17:10	7°♄08'40	-0°28'40
	14139 Apr 26 22:08	0°♄		minimum elong	14140 Mar 17 18:04	7°♄06'20	0°28'20
desc. node	14139 May 05 04:58	13°♄04'32		asc. node	14140 Mar 19 04:42	5°♄38'11	
morning set	14139 May 08 02:46	17°♄47'37		morning rise	14140 Mar 24 08:30	1°♄49'26	
	14139 May 15 16:29	0°♄		direct	14140 Mar 26 19:48	1°♄18'59	
				morning max el	14140 Apr 02 05:43	4°♄36'33	17°48'08
superior conj	14139 May 22 22:39	11°♄29'53	-1°52'03	morning set	14140 Apr 18 22:49	29°♄48'25	
minimum elong	14139 May 22 13:52	10°♄55'21	1°52'19		14140 Apr 19 01:32	0°♄	
max. Earth dist.	14139 May 25 13:19	15°♄35'26	1.45781 AU	desc. node	14140 Apr 21 01:35	3°♄23'44	
	14139 Jun 03 19:48	0°♄					
evening rise	14139 Jun 08 01:13	6°♄32'03		superior conj	14140 May 01 22:57	21°♄27'39	-1°18'22
greatest brilliancy	14139 Jun 20 14:29	25°♄42'37	-0.7m	minimum elong	14140 May 01 15:15	20°♄56'26	1°18'09
	14139 Jun 23 12:42	0°♄			14140 May 07 06:57	0°♄	
asc. node	14139 Jun 29 05:10	7°♄41'08		max. Earth dist.	14140 May 07 08:33	0°♄06'20	1.45026 AU
evening max el	14139 Jul 02 10:52	11°♄19'21	19°21'37	evening rise	14140 May 17 12:38	15°♄55'22	
retrograde	14139 Jul 09 12:34	15°♄15'56			14140 May 26 20:16	0°♄	
evening set	14139 Jul 13 03:26	13°♄59'50		evening max el	14140 Jun 14 13:48	25°♄09'39	20°20'26
inferior conj	14139 Jul 18 13:00	8°♄08'22	3°03'23	asc. node	14140 Jun 15 02:06	25°♄39'49	
minimum elong	14139 Jul 18 14:12	8°♄04'26	3°02'20	retrograde	14140 Jun 22 11:23	29°♄41'04	
min. Earth dist.	14139 Jul 19 21:42	6°♄21'14	0.67172 AU	evening set	14140 Jun 26 12:19	28°♄07'45	
morning rise	14139 Jul 24 00:24	1°♄43'32		inferior conj	14140 Jul 01 18:46	22°♄03'48	3°11'17
	14139 Jul 26 11:31	30°♄♂		minimum elong	14140 Jul 01 18:57	22°♄03'10	3°10'16
direct	14139 Jul 30 00:44	29°♄06'42		min. Earth dist.	14140 Jul 02 13:23	21°♄00'07	0.68250 AU
desc. node	14139 Aug 01 04:01	29°♄23'53		morning rise	14140 Jul 07 01:16	15°♄42'00	
	14139 Aug 02 21:02	0°♄		direct	14140 Jul 12 14:11	13°♄15'50	
morning max el	14139 Aug 11 10:30	6°♄32'14	25°41'18	desc. node	14140 Jul 18 01:22	15°♄07'53	
	14139 Aug 29 15:27	0°♄		morning max el	14140 Jul 23 20:49	20°♄00'51	24°15'51
morning set	14139 Sep 16 09:49	29°♄20'20			14140 Aug 01 09:31	0°♄	
	14139 Sep 16 18:31	0°♄			14140 Aug 21 19:13	0°♄	
max. Earth dist.	14139 Sep 20 01:16	6°♄06'56	1.35780 AU	morning set	14140 Aug 28 08:34	10°♄58'57	
asc. node	14139 Sep 25 06:48	16°♄19'07		max. Earth dist.	14140 Sep 01 00:04	17°♄23'50	1.38047 AU
					14140 Sep 07 19:31	0°♄	
superior conj	14139 Sep 26 00:42	17°♄48'54	0°06'57				
minimum elong	14139 Sep 26 00:17	17°♄46'46	0°07'06	superior conj	14140 Sep 08 05:55	0°♄49'44	-0°26'21
behind sun begin	14139 Sep 25 18:40	17°♄18'33		minimum elong	14140 Sep 08 07:43	0°♄58'25	0°26'06
behind sun end	14139 Sep 26 05:53	18°♄15'03		asc. node	14140 Sep 11 03:21	6°♄26'04	
	14139 Oct 01 23:28	0°♄		evening rise	14140 Sep 16 23:10	17°♄57'38	
evening rise	14139 Oct 03 21:24	3°♄56'45			14140 Sep 23 05:22	0°♄	
	14139 Oct 18 17:01	0°♄		evening max el	14140 Oct 03 11:50	15°♄01'52	19°07'48
evening max el	14139 Oct 21 19:56	3°♄32'44	20°11'01	retrograde	14140 Oct 12 12:46	19°♄34'01	
desc. node	14139 Oct 28 00:09	7°♄55'39		desc. node	14140 Oct 13 21:34	19°♄28'11	
retrograde	14139 Nov 01 11:58	8°♄51'14		evening set	14140 Oct 14 09:32	19°♄23'14	
evening set	14139 Nov 03 14:07	8°♄39'57		inferior conj	14140 Oct 22 20:36	15°♄10'15	-2°49'14
inferior conj	14139 Nov 12 11:52	4°♄42'53	-4°32'51	minimum elong	14140 Oct 22 13:27	15°♄22'23	2°45'52
minimum elong	14139 Nov 12 01:46	4°♄57'54	4°29'05	min. Earth dist.	14140 Oct 25 14:58	13°♄18'02	0.56083 AU
min. Earth dist.	14139 Nov 14 03:57	3°♄43'16	0.54842 AU	morning rise	14140 Oct 30 14:44	10°♄31'59	
morning rise	14139 Nov 20 12:30	0°♄37'32		direct	14140 Nov 05 04:01	9°♄20'39	
	14139 Nov 23 00:42	30°♄♂		morning max el	14140 Nov 19 06:18	16°♄31'11	25°48'32
direct	14139 Nov 25 05:57	29°♄49'03			14140 Nov 30 05:41	0°♄	
	14139 Nov 27 10:47	0°♄		asc. node	14140 Dec 08 04:41	13°♄11'47	
morning max el	14139 Dec 08 19:44	6°♄29'52	24°05'19	morning set	14140 Dec 16 22:24	0°♄41'47	
asc. node	14139 Dec 22 07:39	24°♄24'26			14140 Dec 16 14:37	0°♄	
	14139 Dec 25 11:36	0°♄					
morning set	14140 Jan 02 11:02	16°♄02'18		superior conj	14140 Dec 23 16:39	15°♄35'22	1°38'02
	14140 Jan 08 20:44	0°♄		minimum elong	14140 Dec 23 16:36	15°♄35'05	1°39'04
				max. Earth dist.	14140 Dec 24 22:30	18°♄20'42	1.31669 AU
superior conj	14140 Jan 09 06:43	0°♄54'26	1°35'13		14140 Dec 30 07:56	0°♄	

evening rise	14140 Dec 30 18:36	0°≈55'50		max. Earth dist.	14141 Dec 08 06:24	0°≈29'54	1.31188 AU
desc. node	14141 Jan 09 20:00	20°≈17'28		evening rise	14141 Dec 14 23:20	15°≈15'06	
	14141 Jan 15 16:15	0°≈			14141 Dec 22 07:06	0°≈	
evening max el	14141 Feb 01 02:14	20°≈58'58	27°30'10	desc. node	14141 Dec 27 16:51	9°≈37'30	
retrograde	14141 Feb 15 00:22	28°≈20'20			14142 Jan 11 08:10	0°≈	
evening set	14141 Feb 21 21:35	26°≈06'31		evening max el	14142 Jan 14 06:00	2°≈57'56	26°55'41
min. Earth dist.	14141 Feb 25 15:55	23°≈11'17	0.61798 AU	retrograde	14142 Jan 28 05:23	10°≈10'22	
inferior conj	14141 Feb 28 16:55	20°≈23'43	-1°44'51	evening set	14142 Feb 03 21:34	8°≈16'58	
minimum elong	14141 Feb 28 20:36	20°≈15'15	1°43'05	min. Earth dist.	14142 Feb 07 20:06	5°≈37'27	0.59599 AU
asc. node	14141 Mar 06 02:11	16°≈10'34		inferior conj	14142 Feb 11 00:51	3°≈03'42	-3°09'05
morning rise	14141 Mar 07 22:32	15°≈22'01		minimum elong	14142 Feb 11 07:46	2°≈49'48	3°05'59
direct	14141 Mar 10 03:12	15°≈00'49			14142 Feb 15 05:15	30°≈	
morning max el	14141 Mar 16 22:51	18°≈27'29	17°48'57	morning rise	14142 Feb 18 21:12	28°≈22'36	
	14141 Mar 25 08:04	0°≈		direct	14142 Feb 20 21:56	28°≈07'09	
morning set	14141 Apr 01 16:52	12°≈51'07		asc. node	14142 Feb 20 23:39	28°≈07'10	
desc. node	14141 Apr 07 22:09	23°≈52'11			14142 Feb 26 06:20	0°≈	
	14141 Apr 11 11:08	0°≈		morning max el	14142 Feb 28 12:13	1°≈53'35	18°08'43
				morning set	14142 Mar 16 03:00	26°≈37'47	
superior conj	14141 Apr 12 22:30	2°≈30'42	-0°39'01		14142 Mar 17 22:12	0°≈	
minimum elong	14141 Apr 12 18:49	2°≈15'04	0°38'54	superior conj	14142 Mar 25 21:25	14°≈38'22	-0°00'56
max. Earth dist.	14141 Apr 20 00:52	14°≈16'47	1.43614 AU	minimum elong	14142 Mar 25 21:20	14°≈38'01	0°01'05
evening rise	14141 Apr 27 04:15	25°≈37'07		behind sun begin	14142 Mar 25 13:43	14°≈03'51	
	14141 Apr 30 00:19	0°≈		behind sun end	14142 Mar 26 04:58	15°≈12'05	
	14141 May 20 19:34	0°≈		desc. node	14142 Mar 25 18:41	14°≈26'06	
evening max el	14141 May 28 10:53	8°≈59'57	21°31'33	max. Earth dist.	14142 Apr 02 12:20	27°≈51'31	1.41695 AU
asc. node	14141 Jun 01 23:10	12°≈44'45			14142 Apr 03 19:05	0°≈	
retrograde	14141 Jun 06 09:56	14°≈13'54		evening rise	14142 Apr 07 12:28	6°≈06'07	
evening set	14141 Jun 10 21:36	12°≈23'53			14142 Apr 23 04:47	0°≈	
inferior conj	14141 Jun 16 03:31	6°≈08'54	3°07'38	evening max el	14142 May 11 03:22	22°≈11'04	22°50'33
minimum elong	14141 Jun 16 02:44	6°≈11'36	3°06'31	asc. node	14142 May 19 20:20	28°≈40'09	
min. Earth dist.	14141 Jun 16 08:39	5°≈51'00	0.68850 AU	retrograde	14142 May 21 06:42	28°≈49'24	
morning rise	14141 Jun 21 07:41	29°≈52'30		evening set	14142 May 26 05:37	26°≈44'14	
	14141 Jun 21 04:19	30°≈		min. Earth dist.	14142 May 31 05:28	20°≈47'33	0.68969 AU
direct	14141 Jun 26 08:05	27°≈42'37		inferior conj	14142 May 31 13:16	20°≈20'28	2°53'25
	14141 Jul 02 04:20	0°≈		minimum elong	14142 May 31 11:42	20°≈25'53	2°52'10
desc. node	14141 Jul 04 22:37	2°≈16'38		morning rise	14142 Jun 05 17:41	14°≈10'52	
morning max el	14141 Jul 06 08:12	3°≈37'42	22°46'21	direct	14142 Jun 10 05:21	12°≈20'25	
	14141 Jul 26 11:51	0°≈		morning max el	14142 Jun 18 23:29	17°≈24'14	21°21'12
morning set	14141 Aug 09 08:26	21°≈36'55		desc. node	14142 Jun 21 19:45	20°≈28'17	
max. Earth dist.	14141 Aug 13 23:21	29°≈20'21	1.40413 AU		14142 Jun 29 07:10	0°≈	
	14141 Aug 14 08:39	0°≈			14142 Jul 19 13:29	0°≈	
superior conj	14141 Aug 21 19:18	13°≈06'16	-1°01'47	morning set	14142 Jul 20 07:45	1°≈11'43	
minimum elong	14141 Aug 21 23:59	13°≈27'33	1°01'28	max. Earth dist.	14142 Jul 27 03:38	12°≈08'53	1.42593 AU
asc. node	14141 Aug 28 23:54	26°≈28'12					
	14141 Aug 30 20:34	0°≈		superior conj	14142 Aug 03 12:30	24°≈29'33	-1°35'36
evening rise	14141 Aug 31 16:22	1°≈34'01		minimum elong	14142 Aug 03 19:35	24°≈59'56	1°35'29
evening max el	14141 Sep 16 15:13	27°≈16'08	18°26'23		14142 Aug 06 16:46	0°≈	
	14141 Sep 20 02:55	0°≈		evening rise	14142 Aug 14 21:01	14°≈36'07	
retrograde	14141 Sep 24 08:43	1°≈11'00		asc. node	14142 Aug 15 20:30	16°≈22'14	
evening set	14141 Sep 26 08:58	0°≈55'50			14142 Aug 23 15:24	0°≈	
	14141 Sep 28 19:35	30°≈		evening max el	14142 Aug 31 02:03	10°≈07'17	18°05'34
desc. node	14141 Sep 30 19:04	28°≈50'09		retrograde	14142 Sep 06 22:35	13°≈37'59	
inferior conj	14141 Oct 04 02:36	26°≈22'10	-1°03'10	evening set	14142 Sep 09 06:01	13°≈14'20	
minimum elong	14141 Oct 04 00:09	26°≈27'02	1°01'49	inferior conj	14142 Sep 16 05:44	8°≈20'19	0°26'47
min. Earth dist.	14141 Oct 07 08:36	23°≈48'06	0.57969 AU	minimum elong	14142 Sep 16 06:35	8°≈18'20	0°26'31
morning rise	14141 Oct 11 11:51	21°≈06'16		desc. node	14142 Sep 17 16:35	6°≈59'21	
direct	14141 Oct 17 16:07	19°≈28'08		min. Earth dist.	14142 Sep 19 10:59	5°≈23'08	0.60202 AU
morning max el	14141 Oct 31 23:29	27°≈02'49	27°07'58	morning rise	14142 Sep 23 03:58	2°≈32'52	
	14141 Nov 03 19:44	0°≈		direct	14142 Sep 29 17:27	0°≈28'16	
	14141 Nov 23 18:30	0°≈		morning max el	14142 Oct 14 00:30	8°≈20'26	27°51'28
asc. node	14141 Nov 25 01:37	2°≈28'09			14142 Oct 30 14:00	0°≈	
morning set	14141 Dec 01 07:28	15°≈10'49		asc. node	14142 Nov 11 22:28	22°≈05'39	
				morning set	14142 Nov 15 12:24	29°≈24'46	
superior conj	14141 Dec 08 04:09	0°≈17'19	1°34'51		14142 Nov 15 19:07	0°≈	
minimum elong	14141 Dec 08 03:05	0°≈11'22	1°35'50	max. Earth dist.	14142 Nov 21 14:06	12°≈34'31	1.31233 AU
	14141 Dec 08 01:03	0°≈					

superior conj	14142 Nov 22 15:23	14° $\mathbb{A}$ 55'05	1°25'50	minimum elong	14143 Nov 06 22:09	29° $\mathbb{M}$ 10'54	1°11'31
minimum elong	14142 Nov 22 13:31	14° $\mathbb{A}$ 44'45	1°26'37		14143 Nov 07 07:06	0° $\mathbb{A}$	
evening rise	14142 Nov 29 08:02	29° $\mathbb{A}$ 42'55		evening rise	14143 Nov 13 18:48	14° $\mathbb{A}$ 14'30	
	14142 Nov 29 11:13	0° $\mathbb{B}$			14143 Nov 21 12:57	0° $\mathbb{B}$	
desc. node	14142 Dec 14 13:47	28° $\mathbb{B}$ 18'41		desc. node	14143 Dec 01 10:50	16° $\mathbb{B}$ 06'35	
	14142 Dec 15 16:18	0° $\mathbb{A}$		evening max el	14143 Dec 08 14:01	24° $\mathbb{B}$ 25'14	24°14'20
evening max el	14142 Dec 27 01:46	14° $\mathbb{A}$ 04'20	25°47'38		14143 Dec 16 13:36	0° $\mathbb{A}$	
retrograde	14143 Jan 09 23:50	21° $\mathbb{A}$ 06'10		retrograde	14143 Dec 22 05:24	1° $\mathbb{A}$ 12'38	
evening set	14143 Jan 16 01:47	19° $\mathbb{A}$ 40'06		evening set	14143 Dec 27 06:44	0° $\mathbb{A}$ 16'43	
min. Earth dist.	14143 Jan 20 14:34	17° $\mathbb{A}$ 02'13	0.57494 AU		14143 Dec 28 00:22	30° $\mathbb{R}$ $\mathbb{B}$	
inferior conj	14143 Jan 23 13:31	14° $\mathbb{A}$ 58'54	-4°32'22	min. Earth dist.	14144 Jan 02 01:36	27° $\mathbb{B}$ 22'53	0.55767 AU
minimum elong	14143 Jan 23 22:28	14° $\mathbb{A}$ 43'17	4°29'03	inferior conj	14144 Jan 04 05:20	26° $\mathbb{B}$ 03'51	-5°36'53
morning rise	14143 Jan 31 22:00	10° $\mathbb{A}$ 39'41		minimum elong	14144 Jan 04 12:01	25° $\mathbb{B}$ 53'37	5°34'56
direct	14143 Feb 02 23:39	10° $\mathbb{A}$ 26'21		morning rise	14144 Jan 12 19:12	22° $\mathbb{B}$ 04'21	
asc. node	14143 Feb 07 21:07	11° $\mathbb{A}$ 46'02		direct	14144 Jan 15 06:00	21° $\mathbb{B}$ 48'42	
morning max el	14143 Feb 11 17:49	14° $\mathbb{A}$ 43'08	18°49'08	morning max el	14144 Jan 25 11:29	26° $\mathbb{B}$ 44'27	19°52'09
	14143 Feb 22 06:46	0° $\mathbb{H}$		asc. node	14144 Jan 25 18:29	27° $\mathbb{B}$ 01'35	
morning set	14143 Feb 28 00:12	10° $\mathbb{H}$ 53'21			14144 Jan 28 10:38	0° $\mathbb{A}$	
				morning set	14144 Feb 12 04:48	25° $\mathbb{A}$ 27'08	
superior conj	14143 Mar 08 15:39	27° $\mathbb{H}$ 38'24	0°32'07		14144 Feb 14 10:25	0° $\mathbb{H}$	
minimum elong	14143 Mar 08 17:39	27° $\mathbb{H}$ 47'50	0°31'56				
	14143 Mar 09 21:48	0° $\mathbb{Y}$		superior conj	14144 Feb 20 00:40	11° $\mathbb{H}$ 18'11	0°58'32
desc. node	14143 Mar 12 15:11	5° $\mathbb{Y}$ 01'29		minimum elong	14144 Feb 20 03:22	11° $\mathbb{H}$ 31'32	0°58'35
max. Earth dist.	14143 Mar 15 19:26	10° $\mathbb{Y}$ 42'59	1.39489 AU	max. Earth dist.	14144 Feb 26 01:54	22° $\mathbb{H}$ 58'19	1.37240 AU
evening rise	14143 Mar 19 17:49	17° $\mathbb{Y}$ 30'44		desc. node	14144 Feb 27 11:42	25° $\mathbb{H}$ 34'48	
	14143 Mar 27 09:23	0° $\mathbb{B}$		evening rise	14144 Feb 29 19:22	29° $\mathbb{H}$ 46'50	
	14143 Apr 17 15:56	0° $\mathbb{I}$			14144 Feb 29 22:19	0° $\mathbb{Y}$	
evening max el	14143 Apr 23 17:24	6° $\mathbb{I}$ 43'47	24°11'39		14144 Mar 19 15:46	0° $\mathbb{B}$	
retrograde	14143 May 05 00:18	13° $\mathbb{I}$ 21'02		evening max el	14144 Apr 05 06:59	20° $\mathbb{B}$ 37'16	25°27'50
asc. node	14143 May 06 17:37	13° $\mathbb{I}$ 07'56		retrograde	14144 Apr 17 13:29	27° $\mathbb{B}$ 42'48	
evening set	14143 May 10 10:45	11° $\mathbb{I}$ 03'12		asc. node	14144 Apr 22 14:57	25° $\mathbb{B}$ 55'45	
min. Earth dist.	14143 May 15 01:39	5° $\mathbb{I}$ 42'56	0.68620 AU	evening set	14144 Apr 23 11:22	25° $\mathbb{B}$ 15'43	
inferior conj	14143 May 15 22:05	4° $\mathbb{I}$ 33'49	2°28'56	min. Earth dist.	14144 Apr 27 19:02	20° $\mathbb{B}$ 31'26	0.67822 AU
minimum elong	14143 May 15 20:01	4° $\mathbb{I}$ 40'47	2°27'33	inferior conj	14144 Apr 29 04:01	18° $\mathbb{B}$ 45'06	1°53'59
	14143 May 19 14:27	30° $\mathbb{R}$ $\mathbb{B}$		minimum elong	14144 Apr 29 01:54	18° $\mathbb{B}$ 51'58	1°52'36
morning rise	14143 May 21 05:23	28° $\mathbb{B}$ 32'19		morning rise	14144 May 04 16:51	12° $\mathbb{B}$ 53'00	
direct	14143 May 25 04:47	27° $\mathbb{B}$ 02'17		direct	14144 May 08 04:46	11° $\mathbb{B}$ 42'47	
	14143 May 31 10:06	0° $\mathbb{I}$		morning max el	14144 May 15 02:22	15° $\mathbb{B}$ 28'04	19°06'25
morning max el	14143 Jun 01 21:12	1° $\mathbb{I}$ 21'12	20°06'35	desc. node	14144 May 25 13:41	28° $\mathbb{B}$ 55'41	
desc. node	14143 Jun 08 16:47	9° $\mathbb{I}$ 25'20			14144 May 26 07:12	0° $\mathbb{I}$	
	14143 Jun 22 23:02	0° $\mathbb{E}$		greatest brilliancy	14144 May 28 02:47	2° $\mathbb{I}$ 41'57	-0.7m
morning set	14143 Jun 29 12:34	10° $\mathbb{E}$ 00'05		morning set	14144 Jun 07 17:15	18° $\mathbb{I}$ 53'51	
max. Earth dist.	14143 Jul 09 14:17	25° $\mathbb{E}$ 45'18	1.44342 AU		14144 Jun 14 21:17	0° $\mathbb{E}$	
	14143 Jul 12 05:55	0° $\mathbb{Q}$		max. Earth dist.	14144 Jun 21 06:43	9° $\mathbb{E}$ 58'33	1.45478 AU
superior conj	14143 Jul 15 06:11	4° $\mathbb{Q}$ 52'48	-2°01'58	superior conj	14144 Jun 24 01:54	14° $\mathbb{E}$ 22'40	-2°13'37
minimum elong	14143 Jul 15 12:43	5° $\mathbb{Q}$ 19'30	2°02'28	minimum elong	14144 Jun 24 02:47	14° $\mathbb{E}$ 26'10	2°14'39
evening rise	14143 Jul 28 08:01	26° $\mathbb{Q}$ 50'34			14144 Jul 03 20:49	0° $\mathbb{Q}$	
	14143 Jul 30 04:08	0° $\mathbb{P}$		evening rise	14144 Jul 08 20:24	8° $\mathbb{Q}$ 06'06	
asc. node	14143 Aug 02 17:08	6° $\mathbb{P}$ 03'09		asc. node	14144 Jul 19 13:49	25° $\mathbb{Q}$ 25'29	
evening max el	14143 Aug 14 16:16	23° $\mathbb{P}$ 24'54	18°04'01		14144 Jul 22 15:12	0° $\mathbb{P}$	
retrograde	14143 Aug 21 02:19	26° $\mathbb{P}$ 45'24		evening max el	14144 Jul 28 06:23	6° $\mathbb{P}$ 59'40	18°20'38
evening set	14143 Aug 23 18:04	26° $\mathbb{P}$ 09'45		retrograde	14144 Aug 03 15:37	10° $\mathbb{P}$ 23'51	
inferior conj	14143 Aug 30 02:30	20° $\mathbb{P}$ 57'13	1°35'08	evening set	14144 Aug 06 16:04	9° $\mathbb{P}$ 33'33	
minimum elong	14143 Aug 30 04:47	20° $\mathbb{P}$ 51'12	1°34'08	inferior conj	14144 Aug 12 12:49	4° $\mathbb{P}$ 04'25	2°22'52
min. Earth dist.	14143 Sep 01 22:50	17° $\mathbb{P}$ 58'41	0.62481 AU	minimum elong	14144 Aug 12 15:11	3° $\mathbb{P}$ 57'28	2°21'43
desc. node	14143 Sep 04 14:06	15° $\mathbb{P}$ 33'07		min. Earth dist.	14144 Aug 14 20:04	1° $\mathbb{P}$ 23'41	0.64579 AU
morning rise	14143 Sep 05 13:11	14° $\mathbb{P}$ 48'36			14144 Aug 16 02:41	30° $\mathbb{R}$ $\mathbb{Q}$	
direct	14143 Sep 12 05:34	12° $\mathbb{P}$ 23'19		morning rise	14144 Aug 18 12:54	27° $\mathbb{Q}$ 44'08	
morning max el	14143 Sep 26 07:23	20° $\mathbb{P}$ 23'50	27°55'57	desc. node	14144 Aug 21 11:37	25° $\mathbb{Q}$ 53'45	
	14143 Oct 04 13:58	0° $\mathbb{L}$		direct	14144 Aug 25 02:13	25° $\mathbb{Q}$ 07'11	
	14143 Oct 23 14:36	0° $\mathbb{M}$			14144 Sep 04 09:58	0° $\mathbb{P}$	
asc. node	14143 Oct 29 19:13	11° $\mathbb{M}$ 57'57		morning max el	14144 Sep 07 17:35	3° $\mathbb{P}$ 04'45	27°24'45
morning set	14143 Oct 30 11:04	13° $\mathbb{M}$ 18'23			14144 Sep 27 23:00	0° $\mathbb{L}$	
max. Earth dist.	14143 Nov 04 17:49	24° $\mathbb{M}$ 25'34	1.31823 AU	morning set	14144 Oct 13 00:50	26° $\mathbb{L}$ 44'44	
					14144 Oct 14 16:12	0° $\mathbb{M}$	
superior conj	14143 Nov 07 00:25	29° $\mathbb{M}$ 23'21	1°11'00	asc. node	14144 Oct 15 15:51	1° $\mathbb{M}$ 59'19	



max. Earth dist.	14144 Oct 17 14:01	5°♄56'10	1.32962 AU	asc. node	14145 Oct 02 12:25	22°♄05'47	
superior conj	14144 Oct 21 05:09	13°♄35'40	0°50'25	superior conj	14145 Oct 05 03:09	27°♄26'00	0°24'18
minimum elong	14144 Oct 21 03:00	13°♄24'11	0°50'41	minimum elong	14145 Oct 05 01:51	27°♄19'16	0°24'27
evening rise	14144 Oct 28 05:44	28°♄44'21			14145 Oct 06 08:52	0°♄	
	14144 Oct 28 19:57	0°♄		evening rise	14145 Oct 12 14:55	13°♄07'38	
	14144 Nov 15 00:52	0°♄			14145 Oct 21 05:35	0°♄	
desc. node	14144 Nov 17 08:00	2°♄40'54		evening max el	14145 Oct 31 18:01	14°♄40'46	20°57'07
evening max el	14144 Nov 19 00:14	4°♄24'42	22°31'41	desc. node	14145 Nov 04 05:16	17°♄36'58	
retrograde	14144 Dec 01 21:56	10°♄48'30		retrograde	14145 Nov 12 08:30	20°♄26'47	
evening set	14144 Dec 05 15:04	10°♄18'19		evening set	14145 Nov 14 20:44	20°♄11'46	
min. Earth dist.	14144 Dec 13 08:01	6°♄49'50	0.54706 AU	inferior conj	14145 Nov 23 18:38	16°♄18'22	-5°19'28
inferior conj	14144 Dec 14 03:28	6°♄22'25	-5°58'06	minimum elong	14145 Nov 23 09:41	16°♄31'05	5°16'41
minimum elong	14144 Dec 14 02:08	6°♄24'19	5°57'00	min. Earth dist.	14145 Nov 24 13:46	15°♄51'09	0.54521 AU
morning rise	14144 Dec 22 14:25	2°♄34'53		morning rise	14145 Dec 01 22:56	12°♄25'37	
direct	14144 Dec 25 19:52	2°♄11'15		direct	14145 Dec 06 03:16	11°♄48'11	
morning max el	14145 Jan 06 14:27	7°♄49'43	21°18'11	morning max el	14145 Dec 19 04:51	18°♄07'37	23°02'15
asc. node	14145 Jan 11 15:46	13°♄36'54			14145 Dec 28 17:43	0°♄	
	14145 Jan 21 13:15	0°♄		asc. node	14145 Dec 29 12:58	1°♄14'54	
morning set	14145 Jan 26 13:54	10°♄10'00		morning set	14146 Jan 11 01:19	24°♄55'37	
					14146 Jan 13 10:03	0°♄	
superior conj	14145 Feb 02 20:25	25°♄25'43	1°18'03	superior conj	14146 Jan 17 23:39	9°♄52'05	1°30'49
minimum elong	14145 Feb 02 22:50	25°♄38'19	1°18'27	minimum elong	14146 Jan 18 01:16	10°♄00'48	1°31'34
	14145 Feb 05 01:49	0°♄		max. Earth dist.	14146 Jan 21 05:35	16°♄45'04	1.33442 AU
max. Earth dist.	14145 Feb 07 12:15	4°♄53'14	1.35167 AU	evening rise	14146 Jan 25 21:36	26°♄14'04	
evening rise	14145 Feb 11 13:47	12°♄44'14			14146 Jan 27 20:04	0°♄	
desc. node	14145 Feb 13 08:14	16°♄01'39		desc. node	14146 Jan 31 04:49	6°♄17'46	
	14145 Feb 21 08:42	0°♄			14146 Feb 14 17:45	0°♄	
	14145 Mar 14 16:16	0°♄		evening max el	14146 Mar 01 10:10	17°♄58'10	27°16'18
evening max el	14145 Mar 18 20:47	4°♄25'24	26°31'50	retrograde	14146 Mar 14 23:10	25°♄26'51	
retrograde	14145 Mar 31 21:23	11°♄47'37		evening set	14146 Mar 21 15:42	22°♄55'59	
evening set	14145 Apr 07 05:41	9°♄15'43		min. Earth dist.	14146 Mar 25 12:41	19°♄19'13	0.64960 AU
asc. node	14145 Apr 09 12:20	7°♄07'24		asc. node	14146 Mar 27 09:48	17°♄15'30	
min. Earth dist.	14145 Apr 11 07:23	5°♄06'22	0.66588 AU	inferior conj	14146 Mar 27 22:28	16°♄40'26	0°10'05
inferior conj	14145 Apr 13 04:58	2°♄49'21	1°07'56	minimum elong	14146 Mar 27 22:11	16°♄41'13	0°09'46
minimum elong	14145 Apr 13 03:22	2°♄54'11	1°06'52	transit middle	14146 Mar 27 22:11	16°♄41'13	0°09'46
	14145 Apr 15 15:52	30°♄		transit begin	14146 Mar 27 19:46	16°♄47'52	
morning rise	14145 Apr 19 02:03	27°♄08'27		transit end	14146 Mar 28 00:35	16°♄34'34	
direct	14145 Apr 22 03:29	26°♄16'05		morning rise	14146 Apr 03 06:28	11°♄12'50	
morning max el	14145 Apr 28 14:11	29°♄40'52	18°22'38	direct	14146 Apr 05 22:30	10°♄35'26	
	14145 Apr 28 21:55	0°♄		morning max el	14146 Apr 12 06:26	13°♄52'14	17°55'47
desc. node	14145 May 12 10:29	18°♄50'21			14146 Apr 23 19:19	0°♄	
morning set	14145 May 18 17:56	28°♄49'15		desc. node	14146 Apr 29 07:11	9°♄02'12	
	14145 May 19 11:47	0°♄		morning set	14146 Apr 29 22:39	10°♄06'09	
superior conj	14145 Jun 03 10:14	23°♄28'58	-2°05'26		14146 May 12 03:54	0°♄	
minimum elong	14145 Jun 03 03:39	23°♄03'16	2°06'09	superior conj	14146 May 14 00:28	2°♄57'23	-1°39'00
max. Earth dist.	14145 Jun 04 02:40	24°♄33'05	1.45887 AU	minimum elong	14146 May 13 15:30	2°♄21'47	1°38'59
	14145 Jun 07 14:29	0°♄		max. Earth dist.	14146 May 17 22:52	9°♄09'52	1.45544 AU
evening rise	14145 Jun 19 08:11	18°♄21'16		evening rise	14146 May 30 00:40	27°♄52'50	
	14145 Jun 26 18:42	0°♄			14146 May 31 09:52	0°♄	
greatest brilliancy	14145 Jun 29 01:26	3°♄31'44	-0.8m	greatest brilliancy	14146 Jun 13 06:29	19°♄21'41	-0.6m
asc. node	14145 Jul 06 10:35	14°♄22'47			14146 Jun 20 23:50	0°♄	
evening max el	14145 Jul 11 17:34	20°♄44'25	18°54'37	asc. node	14146 Jun 23 07:27	2°♄45'55	
retrograde	14145 Jul 18 10:52	24°♄25'40		evening max el	14146 Jun 24 23:43	4°♄33'04	19°44'53
evening set	14145 Jul 21 20:21	23°♄19'07		retrograde	14146 Jul 02 09:08	8°♄43'39	
inferior conj	14145 Jul 27 09:02	17°♄35'10	2°52'55	evening set	14146 Jul 06 04:11	7°♄20'10	
minimum elong	14145 Jul 27 10:45	17°♄29'41	2°51'51	inferior conj	14146 Jul 11 12:03	1°♄22'58	3°08'14
min. Earth dist.	14145 Jul 29 01:53	15°♄26'00	0.66340 AU	minimum elong	14146 Jul 11 12:49	1°♄20'22	3°07'13
morning rise	14145 Aug 02 00:23	11°♄10'27		min. Earth dist.	14146 Jul 12 14:37	29°♄53'57	0.67683 AU
direct	14145 Aug 08 06:14	8°♄31'20			14146 Jul 12 12:48	30°♄	
desc. node	14145 Aug 08 09:05	8°♄31'23		morning rise	14146 Jul 16 21:02	24°♄58'53	
morning max el	14145 Aug 21 04:54	16°♄12'49	26°25'06	direct	14146 Jul 22 16:33	22°♄25'59	
	14145 Sep 01 14:52	0°♄		desc. node	14146 Jul 26 06:31	23°♄14'15	
	14145 Sep 20 19:36	0°♄		morning max el	14146 Aug 03 15:43	29°♄36'21	25°06'06
morning set	14145 Sep 26 02:38	9°♄36'54			14146 Aug 04 00:58	0°♄	
max. Earth dist.	14145 Sep 30 00:37	17°♄08'04	1.34622 AU				

	14146 Aug 26 10:55	0°♍		direct	14147 Jul 06 08:11	6°♊43'31	
morning set	14146 Sep 08 12:30	21°♍45'03		desc. node	14147 Jul 13 03:52	9°♊37'18	
max. Earth dist.	14146 Sep 12 02:09	28°♍13'54	1.36713 AU	morning max el	14147 Jul 17 02:13	13°♊08'42	23°37'36
	14146 Sep 13 00:58	0°♊			14147 Jul 30 16:48	0°♊	
					14147 Aug 19 07:17	0°♍	
superior conj	14146 Sep 18 15:27	10°♊46'28	-0°06'46	morning set	14147 Aug 21 01:58	2°♍58'50	
minimum elong	14146 Sep 18 15:52	10°♊48'32	0°06'36	max. Earth dist.	14147 Aug 24 23:49	9°♍42'11	1.39057 AU
behind sun begin	14146 Sep 18 09:55	10°♊19'12					
behind sun end	14146 Sep 18 21:49	11°♊17'55		superior conj	14147 Sep 01 14:26	23°♍29'10	-0°41'18
asc. node	14146 Sep 19 08:58	12°♊13'07		minimum elong	14147 Sep 01 17:26	23°♍43'12	0°41'01
evening rise	14146 Sep 26 20:06	27°♊17'57			14147 Sep 05 00:50	0°♊	
	14146 Sep 28 04:14	0°♌		asc. node	14147 Sep 06 05:31	2°♊18'06	
evening max el	14146 Oct 14 01:40	25°♌40'24	19°41'26	evening rise	14147 Sep 10 18:38	11°♊08'52	
	14146 Oct 20 09:32	0°♌			14147 Sep 21 03:58	0°♌	
desc. node	14146 Oct 22 02:38	0°♌28'17		evening max el	14147 Sep 26 22:57	7°♌29'28	18°47'37
retrograde	14146 Oct 24 00:59	0°♌39'08		retrograde	14147 Oct 05 09:20	11°♌44'02	
evening set	14146 Oct 25 22:59	0°♌28'54		evening set	14147 Oct 07 06:49	11°♌31'58	
	14146 Oct 27 20:28	30°♌		desc. node	14147 Oct 09 00:06	11°♌01'28	
inferior conj	14146 Nov 03 17:31	26°♌25'58	-3°51'01	inferior conj	14147 Oct 15 10:54	7°♌10'51	-2°03'05
minimum elong	14146 Nov 03 08:07	26°♌40'41	3°47'05	minimum elong	14147 Oct 15 05:48	7°♌20'06	2°00'30
min. Earth dist.	14146 Nov 05 22:25	25°♌03'11	0.55266 AU	min. Earth dist.	14147 Oct 18 12:13	4°♌58'34	0.56820 AU
morning rise	14146 Nov 11 15:29	22°♌07'40		morning rise	14147 Oct 23 01:32	2°♌16'14	
direct	14146 Nov 16 17:35	21°♌10'14		direct	14147 Oct 28 22:00	0°♌53'22	
morning max el	14146 Nov 30 14:22	28°♌05'08	24°51'08	morning max el	14147 Nov 12 03:11	8°♌15'43	26°26'11
	14146 Dec 02 12:11	0°♌			14147 Nov 28 09:57	0°♌	
asc. node	14146 Dec 16 10:04	19°♌40'25		asc. node	14147 Dec 03 07:04	8°♌40'53	
	14146 Dec 21 21:52	0°♍		morning set	14147 Dec 10 23:48	24°♌14'03	
morning set	14146 Dec 26 13:13	9°♍38'52			14147 Dec 13 15:20	0°♍	
superior conj	14147 Jan 02 07:47	24°♍29'57	1°37'10	superior conj	14147 Dec 17 18:37	9°♍11'56	1°37'25
minimum elong	14147 Jan 02 08:22	24°♍33'08	1°38'09	minimum elong	14147 Dec 17 18:07	9°♍09'09	1°38'27
max. Earth dist.	14147 Jan 04 06:18	28°♍44'23	1.32166 AU	max. Earth dist.	14147 Dec 18 12:25	10°♍51'05	1.31392 AU
	14147 Jan 04 20:14	0°♎		evening rise	14147 Dec 24 17:08	24°♍20'55	
evening rise	14147 Jan 09 15:38	10°♎08'52			14147 Dec 27 10:45	0°♎	
desc. node	14147 Jan 18 01:29	26°♎18'05		desc. node	14148 Jan 04 22:14	15°♎55'09	
	14147 Jan 20 03:59	0°♏			14148 Jan 13 21:11	0°♏	
	14147 Feb 10 19:22	0°♐		evening max el	14148 Jan 25 05:20	13°♏32'05	27°19'57
evening max el	14147 Feb 11 21:46	1°♐04'42	27°34'14	retrograde	14148 Feb 08 04:47	20°♏50'20	
retrograde	14147 Feb 25 18:09	8°♐31'18		evening set	14148 Feb 15 00:32	18°♏44'29	
evening set	14147 Mar 04 15:01	6°♐08'53		min. Earth dist.	14148 Feb 18 19:50	15°♏57'04	0.60861 AU
min. Earth dist.	14147 Mar 08 09:17	3°♐00'20	0.63012 AU	inferior conj	14148 Feb 21 23:14	13°♏13'15	-2°19'57
inferior conj	14147 Mar 11 05:42	0°♐11'36	-0°59'42	minimum elong	14148 Feb 22 04:16	13°♏02'14	2°17'33
minimum elong	14147 Mar 11 07:40	0°♐06'44	0°58'47	morning rise	14148 Feb 29 11:10	8°♏19'51	
	14147 Mar 11 10:23	30°♏		asc. node	14148 Feb 29 04:49	8°♏24'39	
asc. node	14147 Mar 14 07:18	27°♏20'53		direct	14148 Mar 02 13:35	8°♏01'38	
morning rise	14147 Mar 18 02:58	24°♏59'45		morning max el	14148 Mar 09 16:15	11°♏35'50	17°54'53
direct	14147 Mar 20 11:05	24°♏33'48			14148 Mar 21 23:05	0°♐	
morning max el	14147 Mar 27 00:15	27°♏54'04	17°46'16	morning set	14148 Mar 25 06:30	5°♐59'32	
	14147 Mar 28 22:34	0°♐		desc. node	14148 Apr 02 00:19	19°♐57'08	
morning set	14147 Apr 12 04:53	22°♐36'01					
desc. node	14147 Apr 16 03:47	29°♐26'07		superior conj	14148 Apr 04 20:10	24°♐54'19	-0°22'26
	14147 Apr 16 11:41	0°♑		minimum elong	14148 Apr 04 18:09	24°♐45'38	0°22'27
					14148 Apr 07 19:24	0°♑	
superior conj	14147 Apr 24 10:22	13°♑23'01	-1°01'54	max. Earth dist.	14148 Apr 12 06:41	7°♑27'59	1.42852 AU
minimum elong	14147 Apr 24 04:15	12°♑57'49	1°01'41	evening rise	14148 Apr 18 09:38	17°♑19'15	
max. Earth dist.	14147 Apr 30 16:41	23°♑32'37	1.44495 AU		14148 Apr 26 15:28	0°♒	
	14147 May 04 18:40	0°♒			14148 May 18 16:17	0°♑	
evening rise	14147 May 09 11:58	7°♒19'30		evening max el	14148 May 20 19:04	2°♑14'15	22°04'32
	14147 May 24 16:44	0°♑		asc. node	14148 May 27 01:36	7°♑01'16	
evening max el	14147 Jun 08 00:03	18°♑23'22	20°49'20	retrograde	14148 May 30 06:04	7°♑47'04	
asc. node	14147 Jun 10 04:28	20°♑23'46		evening set	14148 Jun 03 22:24	5°♑50'36	
retrograde	14147 Jun 16 08:09	23°♑12'43			14148 Jun 08 20:44	30°♏♒	
evening set	14147 Jun 20 13:28	21°♑32'22		inferior conj	14148 Jun 09 04:50	29°♒31'46	3°02'51
inferior conj	14147 Jun 25 19:23	15°♑23'25	3°11'04	minimum elong	14148 Jun 09 03:41	29°♒35'44	3°01'41
minimum elong	14147 Jun 25 19:09	15°♑24'14	3°10'01	min. Earth dist.	14148 Jun 09 04:30	29°♒32'55	0.68965 AU
min. Earth dist.	14147 Jun 26 08:15	14°♑38'55	0.68565 AU	morning rise	14148 Jun 14 08:47	23°♒17'59	
morning rise	14147 Jul 01 00:34	9°♑03'25		direct	14148 Jun 19 03:50	21°♒15'51	

morning max el	14148 Jun 28 14:43	26° $\Pi$ 48'41	22°09'02	morning rise	14149 May 29 19:44	7° $\Pi$ 37'57	
desc. node	14148 Jun 29 01:04	27° $\Pi$ 14'58		direct	14149 Jun 03 02:12	5° $\Pi$ 56'03	
	14148 Jul 01 13:36	0° $\mathfrak{S}$		morning max el	14149 Jun 11 08:25	10° $\Pi$ 38'59	20°47'49
	14148 Jul 23 05:40	0° $\Omega$		desc. node	14149 Jun 15 22:10	15° $\Pi$ 47'18	
morning set	14148 Jul 31 15:16	13° $\Omega$ 09'21			14149 Jun 26 08:47	0° $\mathfrak{S}$	
max. Earth dist.	14148 Aug 06 00:39	21° $\Omega$ 59'45	1.41383 AU	morning set	14149 Jul 11 05:11	22° $\mathfrak{S}$ 19'43	
	14148 Aug 10 17:37	0° $\mathfrak{M}$			14149 Jul 16 02:22	0° $\Omega$	
				max. Earth dist.	14149 Jul 19 08:10	5° $\Omega$ 11'38	1.43409 AU
superior conj	14148 Aug 13 19:49	5° $\mathfrak{M}$ 24'42	-1°16'38	superior conj	14149 Jul 26 03:13	16° $\Omega$ 22'30	-1°48'08
minimum elong	14148 Aug 14 01:41	5° $\mathfrak{M}$ 50'42	1°16'20	minimum elong	14149 Jul 26 10:36	16° $\Omega$ 53'31	1°48'14
asc. node	14148 Aug 23 02:05	22° $\mathfrak{M}$ 17'23			14149 Aug 03 01:55	0° $\mathfrak{M}$	
evening rise	14148 Aug 24 07:03	24° $\mathfrak{M}$ 32'01		evening rise	14149 Aug 07 04:48	7° $\mathfrak{M}$ 15'16	
	14148 Aug 27 05:52	0° $\mathfrak{L}$		asc. node	14149 Aug 09 22:41	12° $\mathfrak{M}$ 06'13	
evening max el	14148 Sep 09 06:08	20° $\mathfrak{L}$ 01'16	18°15'08		14149 Aug 21 02:18	0° $\mathfrak{L}$	
retrograde	14148 Sep 16 13:08	23° $\mathfrak{L}$ 43'42		evening max el	14149 Aug 23 18:50	3° $\mathfrak{L}$ 04'29	18°02'35
evening set	14148 Sep 18 16:23	23° $\mathfrak{L}$ 25'16		retrograde	14149 Aug 30 09:36	6° $\mathfrak{L}$ 29'10	
desc. node	14148 Sep 24 21:37	19° $\mathfrak{L}$ 42'29		evening set	14149 Sep 01 20:33	6° $\mathfrak{L}$ 00'42	
inferior conj	14148 Sep 26 02:11	18° $\mathfrak{L}$ 42'49	-0°22'28	inferior conj	14149 Sep 08 13:18	0° $\mathfrak{L}$ 58'09	0°58'30
minimum elong	14148 Sep 26 01:22	18° $\mathfrak{L}$ 44'31	0°21'55	minimum elong	14149 Sep 08 14:58	0° $\mathfrak{L}$ 54'04	0°57'48
min. Earth dist.	14148 Sep 29 09:13	15° $\mathfrak{L}$ 56'24	0.58899 AU		14149 Sep 09 12:55	30° $\mathfrak{R}$ $\mathfrak{M}$	
morning rise	14148 Oct 03 06:57	13° $\mathfrak{L}$ 12'44		min. Earth dist.	14149 Sep 11 15:19	27° $\mathfrak{M}$ 58'11	0.61184 AU
direct	14148 Oct 09 16:12	11° $\mathfrak{L}$ 22'51		desc. node	14149 Sep 11 19:10	27° $\mathfrak{M}$ 49'17	
morning max el	14148 Oct 23 23:33	19° $\mathfrak{L}$ 05'15	27°31'16	morning rise	14149 Sep 15 06:36	25° $\mathfrak{M}$ 00'33	
	14148 Nov 02 05:42	0° $\mathfrak{M}$		direct	14149 Sep 21 22:00	22° $\mathfrak{M}$ 46'33	
asc. node	14148 Nov 19 03:57	28° $\mathfrak{M}$ 07'02			14149 Oct 05 09:50	0° $\mathfrak{L}$	
	14148 Nov 20 02:51	0° $\mathfrak{X}$		morning max el	14149 Oct 06 03:21	0° $\mathfrak{L}$ 42'39	27°58'09
morning set	14148 Nov 24 07:20	8° $\mathfrak{X}$ 36'59			14149 Oct 27 10:00	0° $\mathfrak{M}$	
superior conj	14148 Dec 01 06:13	23° $\mathfrak{X}$ 52'40	1°31'44	asc. node	14149 Nov 06 00:43	17° $\mathfrak{M}$ 51'07	
minimum elong	14148 Dec 01 04:47	23° $\mathfrak{X}$ 44'38	1°32'39	morning set	14149 Nov 08 09:49	22° $\mathfrak{M}$ 42'21	
max. Earth dist.	14148 Nov 30 20:43	22° $\mathfrak{X}$ 59'31	1.31142 AU		14149 Nov 11 20:24	0° $\mathfrak{X}$	
	14148 Dec 04 00:01	0° $\mathfrak{Z}$		max. Earth dist.	14149 Nov 14 03:21	4° $\mathfrak{X}$ 59'49	1.31423 AU
evening rise	14148 Dec 07 23:49	8° $\mathfrak{Z}$ 44'36		superior conj	14149 Nov 15 16:42	8° $\mathfrak{X}$ 26'16	1°20'14
	14148 Dec 18 20:09	0° $\mathfrak{A}$		minimum elong	14149 Nov 15 14:37	8° $\mathfrak{X}$ 14'43	1°20'55
desc. node	14148 Dec 21 19:07	5° $\mathfrak{A}$ 00'02		evening rise	14149 Nov 22 09:36	23° $\mathfrak{X}$ 14'08	
evening max el	14149 Jan 06 06:08	25° $\mathfrak{A}$ 09'32	26°30'41		14149 Nov 25 14:21	0° $\mathfrak{Z}$	
	14149 Jan 12 13:28	0° $\mathfrak{H}$		desc. node	14149 Dec 08 16:07	23° $\mathfrak{Z}$ 20'09	
retrograde	14149 Jan 20 05:14	2° $\mathfrak{H}$ 16'49			14149 Dec 13 13:32	0° $\mathfrak{A}$	
evening set	14149 Jan 26 16:33	0° $\mathfrak{H}$ 34'43		evening max el	14149 Dec 18 22:17	5° $\mathfrak{A}$ 53'39	25°10'08
	14149 Jan 27 17:55	30° $\mathfrak{R}$ $\mathfrak{A}$		retrograde	14150 Jan 01 17:56	12° $\mathfrak{A}$ 49'38	
min. Earth dist.	14149 Jan 30 19:49	27° $\mathfrak{A}$ 57'42	0.58679 AU	evening set	14150 Jan 07 11:00	11° $\mathfrak{A}$ 36'10	
inferior conj	14149 Feb 02 23:20	25° $\mathfrak{A}$ 35'17	-3°45'19	min. Earth dist.	14150 Jan 12 10:20	8° $\mathfrak{A}$ 54'05	0.56697 AU
minimum elong	14149 Feb 03 07:24	25° $\mathfrak{A}$ 20'00	3°41'56	inferior conj	14150 Jan 15 02:58	7° $\mathfrak{A}$ 08'18	-5°03'25
morning rise	14149 Feb 11 01:20	21° $\mathfrak{A}$ 03'03		minimum elong	14150 Jan 15 11:41	6° $\mathfrak{A}$ 54'00	5°00'32
direct	14149 Feb 13 01:47	20° $\mathfrak{A}$ 48'53		morning rise	14150 Jan 23 14:48	2° $\mathfrak{A}$ 58'13	
asc. node	14149 Feb 15 02:16	21° $\mathfrak{A}$ 03'44		direct	14150 Jan 25 19:23	2° $\mathfrak{A}$ 44'23	
morning max el	14149 Feb 21 02:43	24° $\mathfrak{A}$ 47'05	18°23'12	asc. node	14150 Feb 01 23:39	5° $\mathfrak{A}$ 24'31	
	14149 Feb 25 10:24	0° $\mathfrak{H}$		morning max el	14150 Feb 04 03:36	7° $\mathfrak{A}$ 16'24	19°13'13
morning set	14149 Mar 08 21:52	20° $\mathfrak{H}$ 00'03			14150 Feb 18 16:59	0° $\mathfrak{H}$	
	14149 Mar 14 04:01	0° $\mathfrak{Y}$		morning set	14150 Feb 20 22:35	4° $\mathfrak{H}$ 24'14	
superior conj	14149 Mar 18 03:48	7° $\mathfrak{Y}$ 25'18	0°13'50	superior conj	14150 Mar 01 04:51	20° $\mathfrak{H}$ 43'33	0°44'10
minimum elong	14149 Mar 18 04:48	7° $\mathfrak{Y}$ 29'50	0°13'39	minimum elong	14150 Mar 01 07:17	20° $\mathfrak{H}$ 55'18	0°44'03
behind sun begin	14149 Mar 18 01:01	7° $\mathfrak{Y}$ 12'31			14150 Mar 06 02:50	0° $\mathfrak{Y}$	
behind sun end	14149 Mar 18 08:35	7° $\mathfrak{Y}$ 47'08		desc. node	14150 Mar 06 17:19	1° $\mathfrak{Y}$ 06'28	
desc. node	14149 Mar 19 20:49	10° $\mathfrak{Y}$ 31'46		max. Earth dist.	14150 Mar 07 23:05	3° $\mathfrak{Y}$ 21'38	1.38520 AU
max. Earth dist.	14149 Mar 25 16:28	20° $\mathfrak{Y}$ 45'49	1.40787 AU	evening rise	14150 Mar 11 16:52	9° $\mathfrak{Y}$ 58'39	
evening rise	14149 Mar 30 02:42	28° $\mathfrak{Y}$ 11'47			14150 Mar 24 00:35	0° $\mathfrak{Z}$	
	14149 Mar 31 05:07	0° $\mathfrak{Z}$		evening max el	14150 Apr 15 23:57	29° $\mathfrak{Z}$ 59'33	24°45'02
	14149 Apr 20 04:59	0° $\mathfrak{H}$			14150 Apr 16 00:08	0° $\mathfrak{H}$	
evening max el	14149 May 03 10:22	16° $\mathfrak{H}$ 06'16	23°25'11	retrograde	14150 Apr 27 17:17	6° $\mathfrak{H}$ 50'08	
asc. node	14149 May 13 22:50	22° $\mathfrak{H}$ 21'19		asc. node	14150 Apr 30 20:07	6° $\mathfrak{H}$ 07'59	
retrograde	14149 May 14 01:28	22° $\mathfrak{H}$ 21'22		evening set	14150 May 03 08:48	4° $\mathfrak{H}$ 27'36	
evening set	14149 May 19 05:22	20° $\mathfrak{H}$ 10'26			14150 May 07 09:04	30° $\mathfrak{R}$ $\mathfrak{Z}$	
min. Earth dist.	14149 May 24 01:13	14° $\mathfrak{H}$ 29'27	0.68886 AU	min. Earth dist.	14150 May 07 20:21	29° $\mathfrak{Z}$ 23'03	0.68337 AU
inferior conj	14149 May 24 14:23	13° $\mathfrak{H}$ 44'06	2°44'17	inferior conj	14150 May 08 22:12	27° $\mathfrak{Z}$ 57'08	2°15'27
minimum elong	14149 May 24 12:35	13° $\mathfrak{H}$ 50'20	2°42'57				

minimum elong	14150 May 08 20:04	28° $\text{804}'17$	2° $14'02$	morning rise	14151 Apr 28 18:18	6° $\text{818}'23$	
morning rise	14150 May 14 07:34	21° $\text{859}'45$		direct	14151 May 02 01:31	5° $\text{816}'16$	
direct	14150 May 18 01:58	20° $\text{838}'27$		morning max el	14151 May 08 17:42	8° $\text{851}'35$	18° $45'49$
morning max el	14150 May 25 09:26	24° $\text{841}'15$	19° $39'09$	desc. node	14151 May 20 15:58	24° $\text{841}'23$	
	14150 May 30 01:12	0° $\text{II}$		greatest brilliancy	14151 May 22 23:51	28° $\text{814}'18$	-0.8m
desc. node	14150 Jun 02 19:08	4° $\text{II}59'56$			14151 May 24 03:21	0° $\text{II}$	
greatest brilliancy	14150 Jun 07 02:02	11° $\text{II}07'38$	-0.6m	morning set	14151 May 30 18:37	10° $\text{II}18'18$	
	14150 Jun 19 14:46	0° $\text{III}$			14151 Jun 12 09:56	0° $\text{III}$	
morning set	14150 Jun 20 07:23	1° $\text{III}03'47$		max. Earth dist.	14151 Jun 14 15:44	3° $\text{III}29'57$	1.45741 AU
max. Earth dist.	14150 Jul 01 21:55	19° $\text{III}07'16$	1.44909 AU				
				superior conj	14151 Jun 16 00:00	5° $\text{III}36'08$	-2° $12'40$
superior conj	14150 Jul 06 10:56	26° $\text{III}21'03$	-2° $09'06$	minimum elong	14151 Jun 15 21:29	5° $\text{III}26'18$	2° $13'41$
minimum elong	14150 Jul 06 15:42	26° $\text{III}40'11$	2° $09'54$	evening rise	14151 Jul 01 08:41	29° $\text{III}55'35$	
	14150 Jul 08 17:17	0° $\text{IV}$			14151 Jul 01 09:47	0° $\text{IV}$	
evening rise	14150 Jul 20 06:49	19° $\text{IV}06'28$		greatest brilliancy	14151 Jul 06 15:27	8° $\text{IV}23'52$	-0.9m
	14150 Jul 26 18:58	0° $\text{V}$		asc. node	14151 Jul 14 16:04	20° $\text{IV}52'53$	
asc. node	14150 Jul 27 19:21	1° $\text{V}40'11$			14151 Jul 21 18:36	0° $\text{V}$	
evening max el	14150 Aug 07 09:20	16° $\text{V}30'07$	18° $08'48$	evening max el	14151 Jul 21 22:29	0° $\text{V}09'41$	18° $32'59$
retrograde	14150 Aug 13 18:02	19° $\text{V}50'52$		retrograde	14151 Jul 28 10:17	3° $\text{V}39'46$	
evening set	14150 Aug 16 13:22	19° $\text{V}09'20$		evening set	14151 Jul 31 14:25	2° $\text{V}42'54$	
inferior conj	14150 Aug 22 16:22	13° $\text{V}49'18$	1° $57'45$		14151 Aug 03 19:31	30° $\text{V}R$	
minimum elong	14150 Aug 22 18:49	13° $\text{V}42'32$	1° $56'38$	inferior conj	14151 Aug 06 07:20	27° $\text{V}07'25$	2° $37'33$
min. Earth dist.	14150 Aug 25 07:22	10° $\text{V}56'17$	0.63407 AU	minimum elong	14151 Aug 06 09:29	27° $\text{V}00'52$	2° $36'26$
morning rise	14150 Aug 28 22:20	7° $\text{V}34'20$		min. Earth dist.	14151 Aug 08 08:36	24° $\text{V}38'24$	0.65377 AU
desc. node	14150 Aug 29 16:41	7° $\text{V}01'19$		morning rise	14151 Aug 12 03:25	20° $\text{V}44'15$	
direct	14150 Sep 04 13:50	5° $\text{V}03'06$		desc. node	14151 Aug 16 14:12	18° $\text{V}19'31$	
morning max el	14150 Sep 18 12:17	13° $\text{V}04'16$	27° $46'39$	direct	14151 Aug 18 14:01	18° $\text{V}04'58$	
	14150 Oct 02 02:31	0° $\text{VI}$		morning max el	14151 Aug 31 23:16	25° $\text{V}58'20$	27° $02'12$
	14150 Oct 19 22:37	0° $\text{VII}$			14151 Sep 04 16:27	0° $\text{VI}$	
morning set	14150 Oct 23 05:02	6° $\text{VII}24'59$			14151 Sep 25 15:52	0° $\text{VI}$	
asc. node	14150 Oct 23 21:25	7° $\text{VII}47'37$		morning set	14151 Oct 06 14:11	19° $\text{VI}38'08$	
max. Earth dist.	14150 Oct 28 04:21	16° $\text{VII}42'54$	1.32244 AU	asc. node	14151 Oct 10 18:02	27° $\text{VI}51'44$	
				max. Earth dist.	14151 Oct 10 20:22	28° $\text{VI}03'35$	1.33604 AU
					14151 Oct 11 19:13	0° $\text{VII}$	
superior conj	14150 Oct 31 00:09	22° $\text{VII}47'53$	1° $02'57$				
minimum elong	14150 Oct 30 21:51	22° $\text{VII}35'25$	1° $03'21$	superior conj	14151 Oct 15 02:22	6° $\text{VII}51'48$	0° $39'59$
	14150 Nov 03 07:10	0° $\text{VIII}$		minimum elong	14151 Oct 15 00:28	6° $\text{VII}41'52$	0° $40'11$
evening rise	14150 Nov 06 20:38	7° $\text{VIII}45'00$		evening rise	14151 Oct 22 07:04	22° $\text{VII}12'34$	
	14150 Nov 18 07:16	0° $\text{IX}$			14151 Oct 26 01:12	0° $\text{VIII}$	
desc. node	14150 Nov 25 13:13	10° $\text{IX}39'08$		evening max el	14151 Nov 11 20:43	26° $\text{VIII}02'26$	21° $49'41$
evening max el	14150 Nov 30 08:19	15° $\text{IX}59'41$	23° $30'32$	desc. node	14151 Nov 12 10:26	26° $\text{VIII}35'20$	
retrograde	14150 Dec 13 18:00	22° $\text{IX}39'24$			14151 Nov 16 21:00	0° $\text{IX}$	
evening set	14150 Dec 18 06:06	21° $\text{IX}55'18$		retrograde	14151 Nov 24 07:07	2° $\text{IX}12'00$	
min. Earth dist.	14150 Dec 24 18:48	18° $\text{IX}48'50$	0.55213 AU	evening set	14151 Nov 27 10:19	1° $\text{IX}49'58$	
inferior conj	14150 Dec 26 10:20	17° $\text{IX}50'56$	-5° $52'40$		14151 Dec 02 08:14	30° $\text{IX}R$	
minimum elong	14150 Dec 26 14:09	17° $\text{IX}45'20$	5° $51'20$	inferior conj	14151 Dec 06 03:58	27° $\text{IX}56'54$	-5° $49'10$
morning rise	14151 Jan 03 23:53	13° $\text{IX}58'20$		minimum elong	14151 Dec 05 22:46	28° $\text{IX}04'10$	5° $47'35$
direct	14151 Jan 06 17:27	13° $\text{IX}40'11$		min. Earth dist.	14151 Dec 06 00:59	28° $\text{IX}01'05$	0.54506 AU
morning max el	14151 Jan 17 15:12	18° $\text{IX}53'53$	20° $26'16$	morning rise	14151 Dec 14 12:04	24° $\text{IX}09'15$	
asc. node	14151 Jan 19 20:59	21° $\text{IX}15'42$		direct	14151 Dec 18 02:57	23° $\text{IX}40'28$	
	14151 Jan 26 03:19	0° $\text{X}$		morning max el	14151 Dec 30 12:21	29° $\text{IX}37'43$	22° $00'50$
morning set	14151 Feb 05 05:20	19° $\text{X}02'04$			14151 Dec 30 21:36	0° $\text{X}$	
	14151 Feb 10 12:44	0° $\text{XI}$		asc. node	14152 Jan 06 18:14	8° $\text{X}20'02$	
					14152 Jan 18 20:13	0° $\text{XI}$	
superior conj	14151 Feb 12 18:50	4° $\text{XI}36'04$	1° $07'39$	morning set	14152 Jan 20 15:41	3° $\text{XI}46'48$	
minimum elong	14151 Feb 12 21:31	4° $\text{XI}49'35$	1° $07'51$				
max. Earth dist.	14151 Feb 18 06:17	15° $\text{XI}24'03$	1.36312 AU	superior conj	14152 Jan 27 18:09	18° $\text{XI}52'51$	1° $24'16$
desc. node	14151 Feb 21 13:48	21° $\text{XI}37'08$		minimum elong	14152 Jan 27 20:17	19° $\text{XI}04'06$	1° $24'49$
evening rise	14151 Feb 22 01:57	22° $\text{XI}32'46$		max. Earth dist.	14152 Jan 31 19:06	27° $\text{XI}14'37$	1.34378 AU
	14151 Feb 26 06:25	0° $\text{XII}$			14152 Feb 02 03:59	0° $\text{XI}$	
	14151 Mar 17 19:16	0° $\text{XIII}$		evening rise	14152 Feb 05 02:33	5° $\text{XI}45'29$	
evening max el	14151 Mar 29 13:21	13° $\text{XIII}50'39$	25° $57'02$	desc. node	14152 Feb 08 10:22	12° $\text{XI}00'08$	
retrograde	14151 Apr 11 04:29	21° $\text{XIII}05'39$			14152 Feb 19 00:07	0° $\text{XII}$	
evening set	14151 Apr 17 06:58	18° $\text{XIII}35'37$		evening max el	14152 Mar 11 03:09	27° $\text{XII}33'35$	26° $53'40$
asc. node	14151 Apr 17 17:29	18° $\text{XIII}12'57$			14152 Mar 13 19:47	0° $\text{XIII}$	
min. Earth dist.	14151 Apr 21 11:49	14° $\text{XIII}06'29$	0.67339 AU	retrograde	14152 Mar 24 10:04	5° $\text{XIII}00'15$	
inferior conj	14151 Apr 23 02:16	12° $\text{XIII}05'50$	1° $35'52$	evening set	14152 Mar 30 22:02	2° $\text{XIII}28'10$	
minimum elong	14151 Apr 23 00:17	12° $\text{XIII}12'05$	1° $34'35$				

	14152 Apr 02 13:47	30° $\Upsilon$		retrograde	14153 Mar 07 08:56	18° $\Upsilon$ 25'04	
asc. node	14152 Apr 03 14:54	28° $\Upsilon$ 51'35		evening set	14153 Mar 14 03:46	15° $\Upsilon$ 57'12	
min. Earth dist.	14152 Apr 03 21:34	28° $\Upsilon$ 32'46	0.65933 AU	min. Earth dist.	14153 Mar 17 23:28	12° $\Upsilon$ 32'51	0.64165 AU
inferior conj	14152 Apr 06 00:22	26° $\Upsilon$ 05'14	0°44'52	inferior conj	14153 Mar 20 13:54	9° $\Upsilon$ 48'34	-0°18'06
minimum elong	14152 Apr 05 23:14	26° $\Upsilon$ 08'35	0°44'04	minimum elong	14153 Mar 20 14:28	9° $\Upsilon$ 47'06	0°17'56
morning rise	14152 Apr 12 01:46	20° $\Upsilon$ 29'30		asc. node	14153 Mar 21 12:24	8° $\Upsilon$ 49'48	
direct	14152 Apr 14 22:59	19° $\Upsilon$ 43'57		morning rise	14153 Mar 27 03:16	4° $\Upsilon$ 27'00	
morning max el	14152 Apr 21 07:39	23° $\Upsilon$ 04'14	18°09'05	direct	14153 Mar 29 15:47	3° $\Upsilon$ 54'48	
	14152 Apr 26 23:41	0° $\text{♄}$		morning max el	14153 Apr 05 00:52	7° $\Upsilon$ 11'45	17°49'34
desc. node	14152 May 06 12:42	14° $\text{♄}$ 43'50			14153 Apr 20 09:54	0° $\text{♄}$	
morning set	14152 May 10 07:00	20° $\text{♄}$ 47'34		morning set	14153 Apr 21 23:15	2° $\text{♄}$ 37'26	
	14152 May 16 00:37	0° $\text{♂}$		desc. node	14153 Apr 23 09:22	5° $\text{♄}$ 01'06	
superior conj	14152 May 25 08:42	14° $\text{♂}$ 46'13	-1°56'06	superior conj	14153 May 05 06:04	24° $\text{♄}$ 35'17	-1°24'01
minimum elong	14152 May 25 00:17	14° $\text{♂}$ 13'11	1°56'29	minimum elong	14153 May 04 21:54	24° $\text{♄}$ 02'25	1°23'51
max. Earth dist.	14152 May 27 11:38	18° $\text{♂}$ 05'26	1.45833 AU		14153 May 08 15:16	0° $\text{♂}$	
	14152 Jun 04 03:17	0° $\text{♄}$		max. Earth dist.	14153 May 10 07:26	2° $\text{♂}$ 39'05	1.45180 AU
evening rise	14152 Jun 10 10:57	9° $\text{♄}$ 47'56		evening rise	14153 May 20 23:12	19° $\text{♂}$ 12'09	
greatest brilliancy	14152 Jun 22 07:42	28° $\text{♄}$ 01'08	-0.7m		14153 May 28 02:01	0° $\text{♄}$	
	14152 Jun 23 15:34	0° $\text{♂}$		asc. node	14153 Jun 17 09:50	27° $\text{♄}$ 42'32	
asc. node	14152 Jun 30 12:53	9° $\text{♂}$ 36'53		evening max el	14153 Jun 17 11:37	27° $\text{♄}$ 47'02	20°10'48
evening max el	14152 Jul 04 07:47	13° $\text{♂}$ 56'55	19°14'09		14153 Jun 19 23:13	0° $\text{♂}$	
retrograde	14152 Jul 11 07:00	17° $\text{♂}$ 48'59		retrograde	14153 Jun 25 05:47	2° $\text{♂}$ 12'40	
evening set	14152 Jul 14 20:30	16° $\text{♂}$ 35'20		evening set	14153 Jun 29 05:13	0° $\text{♂}$ 41'48	
inferior conj	14152 Jul 20 06:47	10° $\text{♂}$ 45'51	3°01'01		14153 Jun 30 01:06	30° $\text{♄}$	
minimum elong	14152 Jul 20 08:07	10° $\text{♂}$ 41'29	2°59'59	inferior conj	14153 Jul 04 11:56	24° $\text{♄}$ 39'31	3°10'50
min. Earth dist.	14152 Jul 21 17:36	8° $\text{♂}$ 52'47	0.66972 AU	minimum elong	14153 Jul 04 12:16	24° $\text{♄}$ 38'21	3°09'49
morning rise	14152 Jul 25 19:09	4° $\text{♂}$ 21'00		min. Earth dist.	14153 Jul 05 08:33	23° $\text{♄}$ 29'17	0.68117 AU
direct	14152 Jul 31 21:01	1° $\text{♂}$ 43'17		morning rise	14153 Jul 09 19:00	18° $\text{♄}$ 17'08	
desc. node	14152 Aug 02 11:39	1° $\text{♂}$ 53'01		direct	14153 Jul 15 09:41	15° $\text{♄}$ 49'07	
morning max el	14152 Aug 13 10:13	9° $\text{♂}$ 13'10	25°53'09	desc. node	14153 Jul 20 09:03	17° $\text{♄}$ 21'59	
	14152 Aug 29 19:16	0° $\text{♄}$		morning max el	14153 Jul 26 20:42	22° $\text{♄}$ 40'52	24°29'08
	14152 Sep 17 04:37	0° $\text{♂}$			14153 Aug 02 07:05	0° $\text{♂}$	
morning set	14152 Sep 18 09:43	2° $\text{♂}$ 12'42			14153 Aug 23 02:45	0° $\text{♄}$	
max. Earth dist.	14152 Sep 22 02:29	9° $\text{♂}$ 08'53	1.35468 AU	morning set	14153 Aug 31 11:31	13° $\text{♄}$ 59'20	
asc. node	14152 Sep 26 14:36	17° $\text{♄}$ 58'58		max. Earth dist.	14153 Sep 04 02:01	20° $\text{♄}$ 22'51	1.37700 AU
					14153 Sep 09 06:36	0° $\text{♄}$	
superior conj	14152 Sep 27 20:41	20° $\text{♄}$ 30'40	0°11'41	superior conj	14153 Sep 11 03:54	3° $\text{♄}$ 36'56	-0°21'05
minimum elong	14152 Sep 27 20:00	20° $\text{♄}$ 27'12	0°11'49	minimum elong	14153 Sep 11 05:19	3° $\text{♄}$ 43'47	0°20'52
behind sun begin	14152 Sep 27 15:48	20° $\text{♄}$ 05'57		asc. node	14153 Sep 13 11:09	8° $\text{♄}$ 06'05	
behind sun end	14152 Sep 28 00:12	20° $\text{♄}$ 48'29		evening rise	14153 Sep 19 17:40	20° $\text{♄}$ 34'43	
	14152 Oct 02 11:26	0° $\text{♄}$			14153 Sep 24 13:23	0° $\text{♄}$	
evening rise	14152 Oct 05 14:51	6° $\text{♄}$ 31'00		evening max el	14153 Oct 06 10:03	17° $\text{♄}$ 56'47	19°15'44
	14152 Oct 18 11:08	0° $\text{♄}$		retrograde	14153 Oct 15 16:34	22° $\text{♄}$ 35'39	
evening max el	14152 Oct 23 20:15	6° $\text{♄}$ 35'41	20°22'20	desc. node	14153 Oct 16 05:12	22° $\text{♄}$ 34'48	
desc. node	14152 Oct 29 07:46	10° $\text{♄}$ 41'33		evening set	14153 Oct 17 13:19	22° $\text{♄}$ 25'10	
retrograde	14152 Nov 03 18:07	12° $\text{♄}$ 01'19		inferior conj	14153 Oct 26 02:35	18° $\text{♄}$ 14'49	-3°05'44
evening set	14152 Nov 05 22:27	11° $\text{♄}$ 49'19		minimum elong	14153 Oct 25 18:45	18° $\text{♄}$ 27'49	3°02'07
inferior conj	14152 Nov 14 20:42	7° $\text{♄}$ 53'38	-4°46'24	min. Earth dist.	14153 Oct 28 17:51	16° $\text{♄}$ 30'02	0.55851 AU
minimum elong	14152 Nov 14 10:38	8° $\text{♄}$ 08'22	4°42'49	morning rise	14153 Nov 02 21:46	13° $\text{♄}$ 41'59	
min. Earth dist.	14152 Nov 16 07:38	7° $\text{♄}$ 02'26	0.54731 AU	direct	14153 Nov 08 08:16	12° $\text{♄}$ 34'28	
morning rise	14152 Nov 22 22:16	3° $\text{♄}$ 52'16		morning max el	14153 Nov 22 09:25	19° $\text{♄}$ 40'57	25°34'20
direct	14152 Nov 27 12:31	3° $\text{♄}$ 06'48			14153 Dec 01 03:35	0° $\text{♄}$	
morning max el	14152 Dec 10 23:22	9° $\text{♄}$ 42'06	23°48'56	asc. node	14153 Dec 10 12:28	15° $\text{♄}$ 01'29	
asc. node	14152 Dec 23 15:23	26° $\text{♄}$ 19'51			14153 Dec 18 03:02	0° $\text{♄}$	
	14152 Dec 25 18:41	0° $\text{♄}$		morning set	14153 Dec 19 15:07	3° $\text{♄}$ 12'05	
morning set	14153 Jan 04 03:32	18° $\text{♄}$ 31'44					
	14153 Jan 09 10:12	0° $\text{♄}$		superior conj	14153 Dec 26 09:18	18° $\text{♄}$ 04'30	1°38'00
superior conj	14153 Jan 10 23:46	3° $\text{♄}$ 24'33	1°34'16	minimum elong	14153 Dec 26 09:25	18° $\text{♄}$ 05'09	1°39'01
minimum elong	14153 Jan 11 00:58	3° $\text{♄}$ 31'04	1°35'08	max. Earth dist.	14153 Dec 27 19:27	21° $\text{♄}$ 13'08	1.31783 AU
max. Earth dist.	14153 Jan 13 15:51	9° $\text{♄}$ 09'26	1.32846 AU		14153 Dec 31 20:45	0° $\text{♄}$	
evening rise	14153 Jan 18 15:07	19° $\text{♄}$ 26'50		evening rise	14154 Jan 02 12:39	3° $\text{♄}$ 29'25	
	14153 Jan 24 02:33	0° $\text{♄}$		desc. node	14154 Jan 12 03:42	22° $\text{♄}$ 01'13	
desc. node	14153 Jan 25 06:59	2° $\text{♄}$ 10'05			14154 Jan 16 20:57	0° $\text{♄}$	
	14153 Feb 12 02:49	0° $\text{♄}$		evening max el	14154 Feb 04 02:28	23° $\text{♄}$ 48'01	27°32'15
evening max el	14153 Feb 21 16:16	10° $\text{♄}$ 57'08	27°27'37		14154 Feb 12 18:58	0° $\text{♄}$	

retrograde	14154 Feb 18 00:10	1° $\Upsilon$ 10'51		evening max el	14155 Jan 17 07:17	5° $\text{X}$ 54'42	27°03'06
	14154 Feb 22 23:21	30° $\text{K}$		retrograde	14155 Jan 31 06:52	13° $\text{X}$ 09'01	
evening set	14154 Feb 24 21:34	28° $\text{X}$ 54'29		evening set	14155 Feb 07 00:12	11° $\text{X}$ 12'05	
min. Earth dist.	14154 Feb 28 15:43	25° $\text{X}$ 56'10	0.62118 AU	min. Earth dist.	14155 Feb 10 21:34	8° $\text{X}$ 30'59	0.59923 AU
inferior conj	14154 Mar 03 15:43	23° $\text{X}$ 07'46	-1°32'41	inferior conj	14155 Feb 14 02:18	5° $\text{X}$ 53'56	-2°56'04
minimum elong	14154 Mar 03 18:55	23° $\text{X}$ 00'15	1°31'08	minimum elong	14155 Feb 14 08:44	5° $\text{X}$ 40'43	2°53'08
asc. node	14154 Mar 08 09:55	19° $\text{X}$ 12'53		morning rise	14155 Feb 21 20:32	1° $\text{X}$ 09'42	
morning rise	14154 Mar 10 19:09	18° $\text{X}$ 03'27		asc. node	14155 Feb 23 07:24	0° $\text{X}$ 55'02	
direct	14154 Mar 13 00:39	17° $\text{X}$ 41'07		direct	14155 Feb 23 21:31	0° $\text{X}$ 53'41	
morning max el	14154 Mar 19 18:18	21° $\text{X}$ 05'39	17°47'41	morning max el	14155 Mar 03 08:33	4° $\text{X}$ 36'39	18°04'29
	14154 Mar 26 12:45	0° $\Upsilon$		morning set	14155 Mar 18 22:32	29° $\text{X}$ 13'09	
morning set	14154 Apr 04 14:27	15° $\Upsilon$ 31'53			14155 Mar 19 08:37	0° $\Upsilon$	
desc. node	14154 Apr 10 05:55	25° $\Upsilon$ 28'10		desc. node	14155 Mar 28 02:25	16° $\Upsilon$ 01'23	
	14154 Apr 12 20:47	0° $\text{B}$					
superior conj	14154 Apr 16 02:02	5° $\text{B}$ 28'19	-0°45'00	superior conj	14155 Mar 28 21:42	17° $\Upsilon$ 27'10	-0°06'28
minimum elong	14154 Apr 15 21:43	5° $\text{B}$ 10'09	0°44'53	minimum elong	14155 Mar 28 21:09	17° $\Upsilon$ 24'46	0°06'35
max. Earth dist.	14154 Apr 23 00:14	16° $\text{B}$ 53'03	1.43856 AU	behind sun begin	14155 Mar 28 14:00	16° $\Upsilon$ 53'00	
evening rise	14154 Apr 30 13:12	28° $\text{B}$ 48'24		behind sun end	14155 Mar 29 04:18	17° $\Upsilon$ 56'29	
	14154 May 01 07:42	0° $\text{II}$			14155 Apr 05 04:20	0° $\text{B}$	
	14154 May 21 19:35	0° $\text{B}$		max. Earth dist.	14155 Apr 05 12:15	0° $\text{B}$ 33'02	1.42006 AU
evening max el	14154 May 31 09:28	11° $\text{B}$ 36'50	21°20'19	evening rise	14155 Apr 10 18:30	9° $\text{B}$ 09'28	
asc. node	14154 Jun 04 06:54	14° $\text{B}$ 56'27			14155 Apr 24 09:36	0° $\text{II}$	
retrograde	14154 Jun 09 04:33	16° $\text{B}$ 44'30		evening max el	14155 May 14 02:30	25° $\text{II}$ 27'28	22°38'29
evening set	14154 Jun 13 14:34	14° $\text{B}$ 56'52			14155 May 19 17:21	0° $\text{B}$	
inferior conj	14154 Jun 18 20:23	8° $\text{B}$ 43'19	3°08'53	asc. node	14155 May 22 04:05	1° $\text{B}$ 03'10	
minimum elong	14154 Jun 18 19:45	8° $\text{B}$ 45'32	3°07'48	retrograde	14155 May 24 01:42	1° $\text{B}$ 19'29	
min. Earth dist.	14154 Jun 19 03:29	8° $\text{B}$ 18'36	0.68788 AU		14155 May 28 00:19	30° $\text{K}$ $\text{II}$	
morning rise	14154 Jun 24 00:44	2° $\text{B}$ 25'54		evening set	14155 May 28 22:51	29° $\text{II}$ 16'33	
direct	14154 Jun 29 02:57	0° $\text{B}$ 13'24		inferior conj	14155 Jun 03 06:07	22° $\text{II}$ 53'52	2°56'16
desc. node	14154 Jul 07 06:19	4° $\text{B}$ 19'14		minimum elong	14155 Jun 03 04:39	22° $\text{II}$ 58'57	2°55'01
morning max el	14154 Jul 09 07:50	6° $\text{B}$ 16'34	22°59'37	min. Earth dist.	14155 Jun 03 00:15	23° $\text{II}$ 14'18	0.68983 AU
	14154 Jul 27 16:46	0° $\text{Q}$		morning rise	14155 Jun 08 10:19	16° $\text{II}$ 43'04	
morning set	14154 Aug 12 15:04	24° $\text{Q}$ 46'54		direct	14155 Jun 12 23:52	14° $\text{II}$ 49'32	
	14154 Aug 15 17:53	0° $\text{M}$		morning max el	14155 Jun 21 22:17	20° $\text{II}$ 00'55	21°33'14
max. Earth dist.	14154 Aug 17 00:44	2° $\text{M}$ 11'31	1.40064 AU	desc. node	14155 Jun 24 03:28	22° $\text{II}$ 22'08	
					14155 Jun 30 07:51	0° $\text{B}$	
superior conj	14154 Aug 24 19:55	16° $\text{M}$ 00'24	-0°56'24		14155 Jul 20 20:59	0° $\text{Q}$	
minimum elong	14154 Aug 25 00:09	16° $\text{M}$ 19'49	0°56'04	morning set	14155 Jul 23 17:48	4° $\text{Q}$ 29'57	
asc. node	14154 Aug 31 07:42	28° $\text{M}$ 09'00		max. Earth dist.	14155 Jul 30 03:45	14° $\text{Q}$ 50'30	1.42290 AU
	14154 Sep 01 06:59	0° $\text{A}$					
evening rise	14154 Sep 03 12:23	4° $\text{A}$ 15'10		superior conj	14155 Aug 06 16:19	27° $\text{Q}$ 31'37	-1°30'50
	14154 Sep 19 10:06	0° $\text{M}$		minimum elong	14155 Aug 06 23:09	28° $\text{Q}$ 01'11	1°30'38
evening max el	14154 Sep 19 11:58	0° $\text{M}$ 04'39	18°31'12		14155 Aug 08 02:29	0° $\text{M}$	
retrograde	14154 Sep 27 09:36	4° $\text{M}$ 04'19		evening rise	14155 Aug 17 19:07	17° $\text{M}$ 22'27	
evening set	14154 Sep 29 08:55	3° $\text{M}$ 50'09		asc. node	14155 Aug 18 04:16	18° $\text{M}$ 04'07	
desc. node	14154 Oct 03 02:41	2° $\text{M}$ 14'12			14155 Aug 24 20:37	0° $\text{A}$	
	14154 Oct 06 08:25	30° $\text{K}$ $\text{A}$		evening max el	14155 Sep 02 21:57	12° $\text{A}$ 50'49	18°07'28
inferior conj	14154 Oct 07 05:19	29° $\text{A}$ 19'45	-1°18'30	retrograde	14155 Sep 09 20:53	16° $\text{A}$ 24'03	
minimum elong	14154 Oct 07 02:12	29° $\text{A}$ 25'47	1°16'49		14155 Sep 12 03:10	16° $\text{A}$ 01'54	
min. Earth dist.	14154 Oct 10 10:32	26° $\text{A}$ 50'40	0.57658 AU	inferior conj	14155 Sep 19 05:26	11° $\text{A}$ 10'56	0°14'32
morning rise	14154 Oct 14 16:00	24° $\text{A}$ 09'04		minimum elong	14155 Sep 19 05:55	11° $\text{A}$ 09'51	0°14'26
direct	14154 Oct 20 18:24	22° $\text{A}$ 34'52		transit middle	14155 Sep 19 05:55	11° $\text{A}$ 09'51	0°14'26
	14154 Nov 03 22:41	0° $\text{M}$		transit begin	14155 Sep 19 04:24	11° $\text{A}$ 13'17	
morning max el	14154 Nov 04 01:30	0° $\text{M}$ 06'48	26°58'15	transit end	14155 Sep 19 07:27	11° $\text{A}$ 06'25	
	14154 Nov 25 03:13	0° $\text{X}$		desc. node	14155 Sep 20 00:12	10° $\text{A}$ 28'18	
asc. node	14154 Nov 27 09:25	4° $\text{X}$ 13'50		min. Earth dist.	14155 Sep 22 11:30	8° $\text{A}$ 15'46	0.59860 AU
morning set	14154 Dec 04 00:40	17° $\text{X}$ 43'01		morning rise	14155 Sep 26 05:23	5° $\text{A}$ 27'41	
	14154 Dec 09 14:52	0° $\text{B}$		direct	14155 Oct 02 18:03	3° $\text{A}$ 26'35	
				morning max el	14155 Oct 17 01:17	11° $\text{A}$ 16'42	27°47'29
superior conj	14154 Dec 10 20:43	2° $\text{B}$ 46'48	1°35'43		14155 Oct 31 17:12	0° $\text{M}$	
minimum elong	14154 Dec 10 19:48	2° $\text{B}$ 41'40	1°36'44	asc. node	14155 Nov 14 06:13	23° $\text{M}$ 48'17	
max. Earth dist.	14154 Dec 11 03:00	3° $\text{B}$ 21'53	1.31220 AU		14155 Nov 17 07:29	0° $\text{X}$	
evening rise	14154 Dec 17 16:37	17° $\text{B}$ 47'02		morning set	14155 Nov 18 06:17	1° $\text{X}$ 59'13	
	14154 Dec 23 16:56	0° $\approx$		max. Earth dist.	14155 Nov 24 10:52	15° $\text{X}$ 27'15	1.31190 AU
desc. node	14154 Dec 30 00:31	11° $\approx$ 26'06					
	14155 Jan 11 19:35	0° $\text{X}$		superior conj	14155 Nov 25 08:04	17° $\text{X}$ 25'22	1°27'34
				minimum elong	14155 Nov 25 06:19	17° $\text{X}$ 15'35	1°28'25

































































































































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evening rise	14155 Dec 02 00:50	2°♄13'44			14156 Nov 21 21:52	0°♄	
desc. node	14155 Dec 16 21:27	0°♄13'51		desc. node	14156 Dec 02 18:30	18°♄10'46	
	14155 Dec 16 17:56	0°♄		evening max el	14156 Dec 10 17:33	27°♄35'21	24°29'14
evening max el	14155 Dec 30 04:23	17°♄09'03	25°59'46		14156 Dec 13 12:01	0°♄	
retrograde	14156 Jan 13 02:59	24°♄12'26		retrograde	14156 Dec 24 10:12	4°♄24'51	
evening set	14156 Jan 19 07:36	22°♄42'10		evening set	14156 Dec 29 16:00	3°♄24'30	
min. Earth dist.	14156 Jan 23 17:30	20°♄04'57	0.57789 AU	min. Earth dist.	14157 Jan 04 05:18	0°♄34'19	0.55992 AU
inferior conj	14156 Jan 26 17:59	17°♄56'14	-4°20'27		14157 Jan 05 03:34	30°♄♄	
minimum elong	14156 Jan 27 02:49	17°♄40'30	4°17'03	inferior conj	14157 Jan 06 12:46	29°♄08'10	-5°29'21
morning rise	14156 Feb 04 00:58	13°♄33'35		minimum elong	14157 Jan 06 20:12	28°♄56'36	5°27'07
direct	14156 Feb 06 01:59	13°♄20'11		morning rise	14157 Jan 15 02:23	25°♄06'00	
asc. node	14156 Feb 10 04:50	14°♄17'58		direct	14157 Jan 17 11:22	24°♄50'56	
morning max el	14156 Feb 14 15:31	17°♄32'02	18°41'41	asc. node	14157 Jan 27 02:10	29°♄19'09	
	14156 Feb 23 13:53	0°♄♄		morning max el	14157 Jan 27 11:05	29°♄40'20	19°41'18
morning set	14156 Mar 01 18:21	13°♄♄25'02			14157 Jan 27 19:05	0°♄	
	14156 Mar 10 09:05	0°♄♄		morning set	14157 Feb 13 22:01	27°♄56'20	
					14157 Feb 14 22:29	0°♄♄	
superior conj	14156 Mar 10 13:19	0°♄♄19'52	0°27'29	superior conj	14157 Feb 21 20:22	13°♄♄54'00	0°54'58
minimum elong	14156 Mar 10 15:06	0°♄♄28'13	0°27'18	minimum elong	14157 Feb 21 23:02	14°♄♄07'06	0°54'58
desc. node	14156 Mar 13 22:55	6°♄♄36'25		max. Earth dist.	14157 Feb 28 02:16	25°♄♄50'53	1.37571 AU
max. Earth dist.	14156 Mar 17 19:51	13°♄♄30'45	1.39832 AU	desc. node	14157 Feb 28 19:25	27°♄♄09'54	
evening rise	14156 Mar 21 20:41	20°♄♄25'54			14157 Mar 02 08:50	0°♄♄	
	14156 Mar 27 17:07	0°♄♄		evening rise	14157 Mar 03 19:22	2°♄♄34'24	
	14156 Apr 17 13:10	0°♄♄			14157 Mar 20 19:58	0°♄♄	
evening max el	14156 Apr 25 16:48	9°♄♄19'54	23°59'42	evening max el	14157 Apr 08 06:24	23°♄♄13'31	25°17'04
retrograde	14156 May 06 19:44	15°♄♄51'36			14157 Apr 18 08:57	0°♄♄	
asc. node	14156 May 08 01:20	15°♄♄44'51		retrograde	14157 Apr 20 09:34	0°♄♄15'14	
evening set	14156 May 12 04:28	13°♄♄35'34			14157 Apr 22 08:05	30°♄♄♄	
min. Earth dist.	14156 May 16 20:39	8°♄♄09'50	0.68707 AU	asc. node	14157 Apr 24 22:39	28°♄♄47'59	
inferior conj	14156 May 17 15:09	7°♄♄06'53	2°33'21	evening set	14157 Apr 26 05:51	27°♄♄49'13	
minimum elong	14156 May 17 13:09	7°♄♄13'42	2°31'58	min. Earth dist.	14157 Apr 30 14:30	22°♄♄59'45	0.67972 AU
morning rise	14156 May 22 21:51	1°♄♄04'02		inferior conj	14157 May 01 21:38	21°♄♄18'35	2°00'00
	14156 May 24 16:21	30°♄♄♄		minimum elong	14157 May 01 19:29	21°♄♄25'35	1°58'36
direct	14156 May 26 23:05	29°♄♄30'53		morning rise	14157 May 07 09:29	15°♄♄25'05	
	14156 May 29 08:29	0°♄♄		direct	14157 May 10 23:06	14°♄♄11'59	
morning max el	14156 Jun 03 18:49	3°♄♄55'38	20°16'45	morning max el	14157 May 17 22:55	18°♄♄01'13	19°14'23
desc. node	14156 Jun 10 00:28	11°♄♄12'46			14157 May 27 10:41	0°♄♄	
	14156 Jun 23 05:08	0°♄♄		desc. node	14157 May 27 21:23	0°♄♄38'33	
morning set	14156 Jul 02 00:25	13°♄♄22'09		greatest brilliancy	14157 May 30 18:36	4°♄♄52'25	-0.7m
max. Earth dist.	14156 Jul 11 13:30	28°♄♄20'23	1.44118 AU	morning set	14157 Jun 11 03:47	22°♄♄11'28	
	14156 Jul 12 14:23	0°♄♄			14157 Jun 16 05:05	0°♄♄	
superior conj	14156 Jul 17 13:33	8°♄♄03'40	-1°58'46	max. Earth dist.	14157 Jun 24 05:33	12°♄♄30'20	1.45354 AU
minimum elong	14156 Jul 17 20:29	8°♄♄32'09	1°59'09	superior conj	14157 Jun 27 12:07	17°♄♄40'01	-2°13'03
evening rise	14156 Jul 30 09:03	29°♄♄44'29		minimum elong	14157 Jun 27 14:08	17°♄♄48'02	2°14'04
	14156 Jul 30 12:38	0°♄♄			14157 Jul 05 05:07	0°♄♄	
asc. node	14156 Aug 04 00:54	7°♄♄47'11		evening rise	14157 Jul 12 01:04	11°♄♄09'20	
evening max el	14156 Aug 16 11:55	26°♄♄05'04	18°03'07	asc. node	14157 Jul 21 21:35	27°♄♄12'39	
retrograde	14156 Aug 22 22:49	29°♄♄26'06			14157 Jul 23 16:52	0°♄♄	
evening set	14156 Aug 25 13:21	28°♄♄52'21		evening max el	14157 Jul 31 02:13	9°♄♄37'25	18°17'01
inferior conj	14156 Aug 31 23:49	23°♄♄42'22	1°26'10	retrograde	14157 Aug 06 10:59	13°♄♄00'18	
minimum elong	14156 Sep 01 01:59	23°♄♄36'45	1°25'13	evening set	14157 Aug 09 10:08	12°♄♄12'17	
min. Earth dist.	14156 Sep 03 21:47	20°♄♄42'54	0.62148 AU	inferior conj	14157 Aug 15 08:21	6°♄♄45'21	2°16'49
desc. node	14156 Sep 05 21:44	18°♄♄51'54		minimum elong	14157 Aug 15 10:47	6°♄♄38'22	2°15'41
morning rise	14156 Sep 07 12:12	17°♄♄36'25		min. Earth dist.	14157 Aug 17 17:38	4°♄♄01'03	0.64283 AU
direct	14156 Sep 14 04:35	15°♄♄13'47		morning rise	14157 Aug 21 09:55	0°♄♄26'15	
morning max el	14156 Sep 28 07:20	23°♄♄13'14	27°57'44		14157 Aug 21 23:43	30°♄♄♄	
	14156 Oct 04 08:35	0°♄♄		desc. node	14157 Aug 23 19:16	28°♄♄52'51	
	14156 Oct 23 23:49	0°♄♄		direct	14157 Aug 27 23:55	27°♄♄50'36	
asc. node	14156 Oct 31 02:56	13°♄♄38'27			14157 Sep 03 15:15	0°♄♄	
morning set	14156 Nov 01 05:59	15°♄♄55'57		morning max el	14157 Sep 10 17:18	5°♄♄49'18	27°31'27
max. Earth dist.	14156 Nov 06 15:27	27°♄♄21'02	1.31703 AU		14157 Sep 29 04:14	0°♄♄	
	14156 Nov 07 20:34	0°♄♄		morning set	14157 Oct 15 21:15	29°♄♄26'31	
superior conj	14156 Nov 08 17:32	1°♄♄55'15	1°13'37		14157 Oct 16 04:01	0°♄♄	
minimum elong	14156 Nov 08 15:18	1°♄♄42'56	1°14'12	asc. node	14157 Oct 17 23:35	3°♄♄38'30	

max. Earth dist.	14157 Oct 20 13:05	8°♄55'13	1.32760 AU	asc. node	14158 Oct 04 20:12	23°♄44'15	
superior conj	14157 Oct 23 23:01	16°♄09'55	0°53'55	superior conj	14158 Oct 07 22:12	0°♄03'26	0°28'36
minimum elong	14157 Oct 23 20:49	15°♄58'03	0°54'13	minimum elong	14158 Oct 07 20:43	29°♄55'44	0°28'44
	14157 Oct 30 08:22	0°♄			14158 Oct 07 21:32	0°♄	
evening rise	14157 Oct 30 22:23	1°♄15'11		evening rise	14158 Oct 15 07:58	15°♄39'16	
	14157 Nov 15 17:34	0°♄			14158 Oct 22 12:23	0°♄	
desc. node	14157 Nov 19 15:39	4°♄57'29		evening max el	14158 Nov 03 19:27	17°♄46'06	21°10'12
evening max el	14157 Nov 22 03:23	7°♄35'06	22°46'47	desc. node	14158 Nov 06 12:56	20°♄09'54	
retrograde	14157 Dec 05 04:32	14°♄03'28		retrograde	14158 Nov 15 15:35	23°♄38'53	
evening set	14157 Dec 09 02:43	13°♄29'55		evening set	14158 Nov 18 07:10	23°♄22'25	
min. Earth dist.	14157 Dec 16 11:59	10°♄07'44	0.54813 AU	inferior conj	14158 Nov 27 04:19	19°♄29'27	-5°29'05
inferior conj	14157 Dec 17 13:00	9°♄32'14	-5°58'35	minimum elong	14158 Nov 26 20:08	19°♄41'01	5°26'39
minimum elong	14157 Dec 17 13:05	9°♄32'07	5°57'31	min. Earth dist.	14158 Nov 27 17:47	19°♄10'26	0.54482 AU
morning rise	14157 Dec 26 00:50	5°♄43'58		morning rise	14158 Dec 05 09:35	15°♄38'41	
direct	14157 Dec 29 03:02	5°♄21'56		direct	14158 Dec 09 10:19	15°♄03'46	
morning max el	14158 Jan 09 16:17	10°♄53'46	21°04'06	morning max el	14158 Dec 22 08:16	21°♄17'45	22°46'06
asc. node	14158 Jan 13 23:26	15°♄43'14			14158 Dec 29 16:37	0°♄	
	14158 Jan 22 22:19	0°♄		asc. node	14158 Dec 31 20:39	3°♄12'48	
morning set	14158 Jan 29 06:36	12°♄38'15		morning set	14159 Jan 13 17:49	27°♄23'52	
					14159 Jan 14 23:05	0°♄	
superior conj	14158 Feb 05 14:45	27°♄58'04	1°15'32	superior conj	14159 Jan 20 17:03	12°♄22'21	1°29'18
minimum elong	14158 Feb 05 17:16	28°♄11'02	1°15'52	minimum elong	14159 Jan 20 18:50	12°♄31'48	1°30'00
	14158 Feb 06 14:30	0°♄		max. Earth dist.	14159 Jan 24 03:53	19°♄38'39	1.33667 AU
max. Earth dist.	14158 Feb 10 11:48	7°♄47'44	1.35453 AU	evening rise	14159 Jan 28 17:32	28°♄51'44	
evening rise	14158 Feb 14 11:30	15°♄26'04			14159 Jan 29 07:32	0°♄	
desc. node	14158 Feb 15 15:58	17°♄37'59		desc. node	14159 Feb 02 12:33	7°♄56'08	
	14158 Feb 22 16:57	0°♄			14159 Feb 15 20:53	0°♄	
	14158 Mar 15 09:50	0°♄		evening max el	14159 Mar 04 09:35	20°♄38'27	27°11'14
evening max el	14158 Mar 21 20:07	7°♄02'53	26°23'22	retrograde	14159 Mar 17 21:16	28°♄07'17	
retrograde	14158 Apr 03 18:21	14°♄23'33		evening set	14159 Mar 24 12:42	25°♄35'46	
evening set	14158 Apr 10 01:16	11°♄51'51		min. Earth dist.	14159 Mar 28 10:15	21°♄54'20	0.65222 AU
asc. node	14158 Apr 11 20:03	10°♄13'16		asc. node	14159 Mar 29 17:31	20°♄27'40	
min. Earth dist.	14158 Apr 14 03:43	7°♄37'34	0.66796 AU	inferior conj	14159 Mar 30 18:18	19°♄17'58	0°19'38
inferior conj	14158 Apr 15 23:29	5°♄24'27	1°15'40	minimum elong	14159 Mar 30 17:45	19°♄19'29	0°19'12
minimum elong	14158 Apr 15 21:45	5°♄29'43	1°14'33	morning rise	14159 Apr 06 00:31	13°♄48'16	
	14158 Apr 21 07:35	30°♄		direct	14159 Apr 08 17:49	13°♄08'56	
morning rise	14158 Apr 21 19:11	29°♄41'55		morning max el	14159 Apr 15 01:45	16°♄26'20	17°58'42
direct	14158 Apr 24 22:05	28°♄47'07			14159 Apr 25 01:22	0°♄	
	14158 Apr 28 15:34	0°♄		desc. node	14159 May 01 14:53	10°♄39'33	
morning max el	14158 May 01 09:57	2°♄14'07	18°28'09	morning set	14159 May 03 01:14	13°♄00'35	
desc. node	14158 May 14 18:12	20°♄30'05			14159 May 13 12:24	0°♄	
	14158 May 20 19:20	0°♄		superior conj	14159 May 17 09:33	6°♄10'12	-1°43'55
morning set	14158 May 22 00:43	1°♄55'54		minimum elong	14159 May 17 00:31	5°♄34'30	1°43'59
superior conj	14158 Jun 06 21:13	26°♄47'33	-2°07'59	max. Earth dist.	14159 May 20 21:16	11°♄39'37	1.45641 AU
minimum elong	14158 Jun 06 15:34	26°♄25'30	2°08'47		14159 Jun 01 17:06	0°♄	
max. Earth dist.	14158 Jun 07 01:15	27°♄03'16	1.45875 AU	evening rise	14159 Jun 02 11:09	1°♄09'22	
	14158 Jun 08 22:33	0°♄		greatest brilliancy	14159 Jun 16 04:07	21°♄54'51	-0.7m
evening rise	14158 Jun 22 16:30	21°♄33'27			14159 Jun 21 21:17	0°♄	
	14158 Jun 28 01:03	0°♄		asc. node	14159 Jun 25 15:17	4°♄43'43	
greatest brilliancy	14158 Jul 01 14:11	5°♄32'49	-0.8m	evening max el	14159 Jun 27 21:00	7°♄09'31	19°36'24
asc. node	14158 Jul 08 18:22	16°♄14'28		retrograde	14159 Jul 05 03:37	11°♄15'05	
evening max el	14158 Jul 14 13:58	23°♄20'57	18°48'25	evening set	14159 Jul 08 21:10	9°♄54'13	
retrograde	14158 Jul 21 05:38	26°♄59'00		inferior conj	14159 Jul 14 05:35	3°♄58'58	3°06'42
evening set	14158 Jul 24 13:41	25°♄55'01		minimum elong	14159 Jul 14 06:30	3°♄55'54	3°05'42
inferior conj	14158 Jul 30 03:21	20°♄13'07	2°49'19	min. Earth dist.	14159 Jul 15 10:18	2°♄23'27	0.67515 AU
minimum elong	14158 Jul 30 05:12	20°♄07'18	2°48'14		14159 Jul 17 07:45	30°♄	
min. Earth dist.	14158 Jul 31 22:22	17°♄58'30	0.66105 AU	morning rise	14159 Jul 19 15:21	27°♄34'28	
morning rise	14158 Aug 04 19:52	13°♄48'30		direct	14159 Jul 25 12:34	25°♄00'02	
desc. node	14158 Aug 10 16:45	11°♄09'49		desc. node	14159 Jul 28 14:10	25°♄35'26	
direct	14158 Aug 11 02:59	11°♄09'08			14159 Aug 04 06:38	0°♄	
morning max el	14158 Aug 24 04:43	18°♄54'20	26°35'22	morning max el	14159 Aug 06 15:37	2°♄16'10	25°18'36
	14158 Sep 02 14:34	0°♄			14159 Aug 27 16:59	0°♄	
	14158 Sep 22 04:45	0°♄		morning set	14159 Sep 11 13:38	24°♄39'42	
morning set	14158 Sep 29 01:04	12°♄23'58			14159 Sep 14 11:51	0°♄	
max. Earth dist.	14158 Oct 03 01:04	20°♄08'28	1.34343 AU				



max. Earth dist.	14159 Sep 15 03:34	1°♄13'06	1.36379 AU			14160 Jul 30 18:46	0°♄	
						14160 Aug 19 15:54	0°♄	
superior conj	14159 Sep 21 12:13	13°♄29'14	-0°01'47	morning set		14160 Aug 23 06:26	6°♄02'24	
minimum elong	14159 Sep 21 12:19	13°♄29'44	0°01'38	max. Earth dist.		14160 Aug 27 01:27	12°♄36'41	1.38704 AU
behind sun begin	14159 Sep 21 05:58	12°♄58'13						
behind sun end	14159 Sep 21 18:40	14°♄01'19		superior conj		14160 Sep 03 13:29	26°♄18'37	-0°35'56
asc. node	14159 Sep 21 16:50	13°♄52'11		minimum elong		14160 Sep 03 16:03	26°♄30'43	0°35'39
evening rise	14159 Sep 29 13:57	29°♄52'07				14160 Sep 05 12:03	0°♄	
	14159 Sep 29 15:30	0°♄		asc. node		14160 Sep 07 13:22	3°♄57'54	
evening max el	14159 Oct 17 01:02	28°♄39'00	19°51'22	evening rise		14160 Sep 12 13:43	13°♄46'44	
	14159 Oct 18 11:53	0°♄				14160 Sep 21 06:49	0°♄	
desc. node	14159 Oct 24 10:18	3°♄21'48		evening max el		14160 Sep 28 20:32	10°♄21'13	18°54'12
retrograde	14159 Oct 27 06:14	3°♄44'40		retrograde		14160 Oct 07 11:45	14°♄41'32	
evening set	14159 Oct 29 05:22	3°♄34'13		evening set		14160 Oct 09 08:51	14°♄30'01	
	14159 Nov 06 08:05	30°♄		desc. node		14160 Oct 10 07:45	14°♄15'45	
inferior conj	14159 Nov 07 01:16	29°♄33'40	-4°06'29	inferior conj		14160 Oct 17 15:29	10°♄11'50	-2°19'25
minimum elong	14159 Nov 06 15:30	29°♄48'41	4°02'32	minimum elong		14160 Oct 17 09:39	10°♄22'11	2°16'32
min. Earth dist.	14159 Nov 09 02:01	28°♄18'49	0.55096 AU	min. Earth dist.		14160 Oct 20 14:43	8°♄06'17	0.56552 AU
morning rise	14159 Nov 15 00:09	25°♄20'08		morning rise		14160 Oct 25 07:22	5°♄23'04	
direct	14159 Nov 19 23:18	24°♄25'55		direct		14160 Oct 31 01:34	4°♄04'11	
	14159 Dec 02 08:15	0°♄		morning max el		14160 Nov 14 05:45	11°♄22'30	26°13'38
morning max el	14159 Dec 03 17:55	1°♄16'18	24°35'20			14160 Nov 28 14:10	0°♄	
asc. node	14159 Dec 18 17:47	21°♄32'11		asc. node		14160 Dec 04 14:48	10°♄27'56	
	14159 Dec 23 08:08	0°♄		morning set		14160 Dec 12 16:40	26°♄44'24	
morning set	14159 Dec 29 05:47	12°♄07'56				14160 Dec 14 04:46	0°♄	
superior conj	14160 Jan 05 00:39	26°♄59'10	1°36'36	superior conj		14160 Dec 19 11:12	11°♄40'37	1°37'45
minimum elong	14160 Jan 05 01:24	27°♄03'15	1°37'33	minimum elong		14160 Dec 19 10:52	11°♄38'44	1°38'48
	14160 Jan 06 09:46	0°♄		max. Earth dist.		14160 Dec 20 09:08	13°♄42'40	1.31477 AU
max. Earth dist.	14160 Jan 07 03:35	1°♄36'42	1.32324 AU	evening rise		14160 Dec 26 10:49	26°♄53'23	
evening rise	14160 Jan 12 10:17	12°♄43'40				14160 Dec 27 22:44	0°♄	
desc. node	14160 Jan 20 09:14	27°♄59'26		desc. node		14161 Jan 06 05:59	17°♄40'26	
	14160 Jan 21 12:19	0°♄				14161 Jan 13 21:49	0°♄	
	14160 Feb 11 04:52	0°♄		evening max el		14161 Jan 27 06:04	16°♄24'04	27°24'16
evening max el	14160 Feb 14 21:40	3°♄50'03	27°33'31	retrograde		14161 Feb 10 05:09	23°♄43'21	
retrograde	14160 Feb 28 17:22	11°♄17'20		evening set		14161 Feb 17 01:31	21°♄34'40	
evening set	14160 Mar 06 13:47	8°♄53'20		min. Earth dist.		14161 Feb 20 20:25	18°♄44'39	0.61190 AU
min. Earth dist.	14160 Mar 10 08:21	5°♄40'46	0.63320 AU	inferior conj		14161 Feb 23 23:03	15°♄59'15	-2°07'13
inferior conj	14160 Mar 13 03:17	2°♄52'42	-0°48'20	minimum elong		14161 Feb 24 03:36	15°♄49'08	2°05'04
minimum elong	14160 Mar 13 04:51	2°♄48'45	0°47'38	asc. node		14161 Mar 02 12:27	11°♄20'36	
asc. node	14160 Mar 15 14:59	0°♄29'06		morning rise		14161 Mar 03 08:46	11°♄02'48	
	14160 Mar 16 04:24	30°♄		direct		14161 Mar 05 11:55	10°♄43'36	
morning rise	14160 Mar 19 22:26	27°♄38'10		morning max el		14161 Mar 12 11:56	14°♄14'59	17°52'23
direct	14160 Mar 22 07:36	27°♄10'44				14161 Mar 23 07:27	0°♄	
	14160 Mar 28 06:48	0°♄		morning set		14161 Mar 28 03:07	8°♄37'16	
morning max el	14160 Mar 28 19:30	0°♄29'54	17°46'29	desc. node		14161 Apr 04 08:04	21°♄32'07	
morning set	14160 Apr 14 04:00	25°♄20'26						
	14160 Apr 16 21:04	0°♄		superior conj		14161 Apr 07 22:11	27°♄47'12	-0°28'18
desc. node	14160 Apr 17 11:31	1°♄01'47		minimum elong		14161 Apr 07 19:36	27°♄36'06	0°28'16
						14161 Apr 09 05:11	0°♄	
superior conj	14160 Apr 26 15:56	16°♄25'32	-1°07'50	max. Earth dist.		14161 Apr 15 06:22	10°♄06'05	1.43130 AU
minimum elong	14160 Apr 26 09:13	15°♄58'02	1°07'37	evening rise		14161 Apr 21 17:25	20°♄26'53	
max. Earth dist.	14160 May 02 15:28	26°♄04'50	1.44695 AU			14161 Apr 27 22:09	0°♄	
	14160 May 05 02:55	0°♄				14161 May 19 09:14	0°♄	
evening rise	14160 May 11 22:04	10°♄33'37		evening max el		14161 May 23 17:59	4°♄50'47	21°52'51
	14160 May 24 21:12	0°♄		asc. node		14161 May 29 09:21	9°♄17'06	
evening max el	14160 Jun 09 22:16	20°♄59'49	20°39'01	retrograde		14161 Jun 02 00:43	10°♄16'51	
asc. node	14160 Jun 11 12:17	22°♄29'15		evening set		14161 Jun 06 15:26	8°♄22'34	
retrograde	14160 Jun 18 02:36	25°♄42'42		inferior conj		14161 Jun 11 21:38	2°♄05'07	3°04'48
evening set	14160 Jun 22 06:21	24°♄04'51		minimum elong		14161 Jun 11 20:37	2°♄08'39	3°03'38
inferior conj	14160 Jun 27 12:24	17°♄57'42	3°11'21	min. Earth dist.		14161 Jun 11 23:13	1°♄59'36	0.68936 AU
minimum elong	14160 Jun 27 12:19	17°♄57'59	3°10'18			14161 Jun 13 09:55	30°♄	
min. Earth dist.	14160 Jun 28 03:18	17°♄06'21	0.68465 AU	morning rise		14161 Jun 17 01:37	25°♄50'26	
morning rise	14160 Jul 02 18:00	11°♄36'58		direct		14161 Jun 21 22:33	23°♄45'30	
direct	14160 Jul 08 03:31	9°♄14'43		desc. node		14161 Jul 01 08:43	29°♄12'50	
desc. node	14160 Jul 14 11:29	11°♄44'55		morning max el		14161 Jul 01 13:58	29°♄25'58	22°21'58
morning max el	14160 Jul 19 01:58	15°♄47'03	23°50'59			14161 Jul 02 03:20	0°♄	

	14161 Jul 24 12:02	0°♎		desc. node	14162 Jun 18 05:48	17°♊38'05	
morning set	14161 Aug 03 23:27	16°♎22'41			14162 Jun 27 12:36	0°♊	
max. Earth dist.	14161 Aug 09 01:44	24°♎47'16	1.41050 AU	morning set	14162 Jul 14 16:24	25°♊40'56	
	14161 Aug 12 03:16	0°♎			14162 Jul 17 10:24	0°♎	
				max. Earth dist.	14162 Jul 22 08:11	7°♎51'27	1.43135 AU
superior conj	14161 Aug 16 21:46	8°♎21'56	-1°11'24				
minimum elong	14161 Aug 17 03:14	8°♎46'21	1°11'04	superior conj	14162 Jul 29 08:34	19°♎28'25	-1°43'52
asc. node	14161 Aug 25 09:56	23°♎58'32		minimum elong	14162 Jul 29 15:55	19°♎59'33	1°43'52
evening rise	14161 Aug 27 03:52	27°♎14'54			14162 Aug 04 11:22	0°♎	
	14161 Aug 28 15:11	0°♎		evening rise	14162 Aug 10 04:05	10°♎04'51	
evening max el	14161 Sep 12 02:27	22°♎47'12	18°18'37	asc. node	14162 Aug 12 06:30	13°♎49'17	
retrograde	14161 Sep 19 12:52	26°♎33'40			14162 Aug 21 22:57	0°♎	
evening set	14161 Sep 21 15:02	26°♎16'27		evening max el	14162 Aug 26 14:32	5°♎46'11	18°03'14
desc. node	14161 Sep 27 05:14	23°♎10'12		retrograde	14162 Sep 02 07:08	9°♎12'47	
inferior conj	14161 Sep 29 03:33	21°♎36'56	-0°36'36	evening set	14162 Sep 04 16:49	8°♎46'06	
minimum elong	14161 Sep 29 02:12	21°♎39'44	0°35'46	inferior conj	14162 Sep 11 11:57	3°♎46'25	0°47'36
min. Earth dist.	14161 Oct 02 10:25	18°♎54'30	0.58572 AU	minimum elong	14162 Sep 11 13:21	3°♎43'01	0°47'03
morning rise	14161 Oct 06 09:55	16°♎11'42		desc. node	14162 Sep 14 02:46	1°♎15'44	
direct	14161 Oct 12 17:34	14°♎25'55		min. Earth dist.	14162 Sep 14 15:12	0°♎46'59	0.60840 AU
morning max el	14161 Oct 27 00:58	22°♎05'28	27°23'54		14162 Sep 15 12:18	30°♎	
	14161 Nov 03 00:36	0°♎		morning rise	14162 Sep 18 06:57	27°♎52'04	
asc. node	14161 Nov 21 11:42	29°♎50'47		direct	14162 Sep 24 21:46	25°♎41'17	
	14161 Nov 21 13:36	0°♎			14162 Oct 05 02:22	0°♎	
morning set	14161 Nov 27 00:44	11°♎09'19		morning max el	14162 Oct 09 03:54	3°♎36'15	27°56'39
					14162 Oct 28 16:27	0°♎	
superior conj	14161 Dec 03 22:46	26°♎21'35	1°32'57	asc. node	14162 Nov 08 08:29	19°♎32'50	
minimum elong	14161 Dec 03 21:28	26°♎14'17	1°33'55	morning set	14162 Nov 11 04:06	25°♎17'59	
max. Earth dist.	14161 Dec 03 17:23	25°♎51'27	1.31148 AU		14162 Nov 13 09:30	0°♎	
	14161 Dec 05 13:50	0°♎		max. Earth dist.	14162 Nov 17 00:30	7°♎53'49	1.31343 AU
evening rise	14161 Dec 10 16:50	11°♎15'24					
	14161 Dec 20 03:42	0°♎		superior conj	14162 Nov 18 09:32	10°♎56'52	1°22'21
desc. node	14161 Dec 24 02:50	6°♎50'46		minimum elong	14162 Nov 18 07:31	10°♎45'42	1°23'05
evening max el	14162 Jan 09 07:57	28°♎08'54	26°40'07	evening rise	14162 Nov 25 02:15	25°♎44'32	
	14162 Jan 11 09:47	0°♎			14162 Nov 27 02:10	0°♎	
retrograde	14162 Jan 23 07:07	5°♎17'52		desc. node	14162 Dec 10 23:49	25°♎19'03	
evening set	14162 Jan 29 20:21	3°♎31'44			14162 Dec 14 06:20	0°♎	
min. Earth dist.	14162 Feb 02 21:44	0°♎54'13	0.58995 AU	evening max el	14162 Dec 22 01:18	9°♎00'48	25°23'45
	14162 Feb 04 02:21	30°♎		retrograde	14163 Jan 04 21:55	15°♎59'04	
inferior conj	14162 Feb 06 01:55	28°♎27'31	-3°32'30	evening set	14163 Jan 10 18:20	14°♎41'05	
minimum elong	14162 Feb 06 09:37	28°♎12'38	3°29'12	min. Earth dist.	14163 Jan 15 13:34	12°♎00'54	0.56964 AU
morning rise	14162 Feb 14 02:01	23°♎52'11		inferior conj	14163 Jan 18 08:45	10°♎08'40	-4°52'56
direct	14162 Feb 16 02:29	23°♎37'37		minimum elong	14163 Jan 18 17:40	9°♎53'45	4°49'50
asc. node	14162 Feb 17 09:54	23°♎43'59		morning rise	14163 Jan 26 19:36	5°♎55'33	
morning max el	14162 Feb 23 23:27	27°♎31'27	18°17'44	direct	14163 Jan 28 22:56	5°♎42'00	
	14162 Feb 26 05:18	0°♎		asc. node	14163 Feb 04 07:18	7°♎50'17	
morning set	14162 Mar 11 16:43	22°♎33'13		morning max el	14163 Feb 07 02:06	10°♎08'29	19°04'21
	14162 Mar 15 15:07	0°♎			14163 Feb 20 03:07	0°♎	
				morning set	14163 Feb 23 16:16	6°♎54'52	
superior conj	14162 Mar 21 02:50	10°♎10'17	0°08'41				
minimum elong	14162 Mar 21 03:28	10°♎13'11	0°08'30	superior conj	14163 Mar 04 01:37	23°♎22'51	0°39'59
behind sun begin	14162 Mar 20 21:10	9°♎44'31		minimum elong	14163 Mar 04 03:56	23°♎33'53	0°39'50
behind sun end	14162 Mar 21 09:47	10°♎41'47			14163 Mar 07 13:52	0°♎	
desc. node	14162 Mar 22 04:33	12°♎06'33		desc. node	14163 Mar 09 01:03	2°♎41'48	
max. Earth dist.	14162 Mar 28 16:50	23°♎30'34	1.41109 AU	max. Earth dist.	14163 Mar 10 23:34	6°♎12'02	1.38858 AU
	14162 Apr 01 13:58	0°♎		evening rise	14163 Mar 14 18:28	12°♎50'38	
evening rise	14162 Apr 02 07:18	1°♎11'03			14163 Mar 25 07:08	0°♎	
	14162 Apr 21 07:43	0°♎			14163 Apr 16 11:35	0°♎	
evening max el	14162 May 06 09:37	18°♎42'27	23°13'02	evening max el	14163 Apr 18 23:16	2°♎35'37	24°33'24
asc. node	14162 May 16 06:31	24°♎50'12		retrograde	14163 Apr 30 13:04	9°♎21'55	
retrograde	14162 May 16 20:35	24°♎51'45		asc. node	14163 May 03 03:47	8°♎52'05	
evening set	14162 May 21 22:46	22°♎42'43		evening set	14163 May 06 02:49	7°♎00'53	
inferior conj	14162 May 27 07:16	16°♎17'11	2°47'48	min. Earth dist.	14163 May 10 15:29	1°♎50'52	0.68449 AU
minimum elong	14162 May 27 05:32	16°♎23'09	2°46'29	inferior conj	14163 May 11 15:28	0°♎30'39	2°20'31
min. Earth dist.	14162 May 26 19:57	16°♎56'18	0.68927 AU	minimum elong	14163 May 11 13:21	0°♎37'46	2°19'06
morning rise	14162 Jun 01 12:15	10°♎09'54			14163 May 12 00:38	30°♎	
direct	14162 Jun 05 20:31	8°♎25'02		morning rise	14163 May 17 00:03	24°♎31'47	
morning max el	14162 Jun 14 06:47	13°♎15'00	20°59'14	direct	14163 May 20 20:09	23°♎07'30	

morning max el	14163 May 28 06:39	27°  15'45	19°48'23	desc. node	14164 May 21 23:39	26°  23'15	
	14163 May 30 19:42	0°  II		greatest brilliancy	14164 May 24 04:06	29°  40'58	-0.8m
desc. node	14163 Jun 05 02:47	6°  II45'31			14164 May 24 09:07	0°  II	
greatest brilliancy	14163 Jun 10 22:53	15°  II03'59	-0.6m	morning set	14164 Jun 02 03:43	13°  II31'58	
	14163 Jun 20 21:44	0°  ☿			14164 Jun 12 17:50	0°  ☿	
morning set	14163 Jun 23 19:05	4°  ☿25'24		max. Earth dist.	14164 Jun 16 14:03	5°  ☿59'52	1.45665 AU
max. Earth dist.	14163 Jul 04 20:46	21°  ☿40'17	1.44728 AU				
				superior conj	14164 Jun 18 10:54	8°  ☿55'29	-2°13'26
superior conj	14163 Jul 09 19:40	29°  ☿35'18	-2°06'54	minimum elong	14164 Jun 18 09:36	8°  ☿50'23	2°14'29
minimum elong	14163 Jul 10 01:11	29°  ☿57'33	2°07'37		14164 Jul 01 17:29	0°  ☿	
	14163 Jul 10 01:47	0°  ☿		evening rise	14164 Jul 03 14:58	3°  ☿03'13	
evening rise	14163 Jul 23 09:19	22°  ☿04'23		asc. node	14164 Jul 15 23:52	22°  ☿04'23	
	14163 Jul 28 01:50	0°  ☿			14164 Jul 21 06:22	0°  ☿	
asc. node	14163 Jul 30 03:08	3°  ☿25'49		evening max el	14164 Jul 23 18:33	2°  ☿47'36	18°28'18
evening max el	14163 Aug 10 04:58	19°  ☿08'59	18°06'46	retrograde	14164 Jul 30 05:16	6°  ☿15'17	
retrograde	14163 Aug 16 14:00	22°  ☿29'27		evening set	14164 Aug 02 08:07	5°  ☿20'46	
evening set	14163 Aug 19 08:02	21°  ☿50'04			14164 Aug 07 22:09	30°  ☿	
inferior conj	14163 Aug 25 12:52	16°  ☿32'39	1°50'03	inferior conj	14164 Aug 08 02:18	29°  ☿47'34	2°32'35
minimum elong	14163 Aug 25 15:17	16°  ☿26'06	1°48'58	minimum elong	14164 Aug 08 04:33	29°  ☿40'49	2°31'28
min. Earth dist.	14163 Aug 28 05:49	13°  ☿37'16	0.63087 AU	min. Earth dist.	14164 Aug 10 05:44	27°  ☿14'06	0.65106 AU
morning rise	14163 Aug 31 20:27	10°  ☿19'39		morning rise	14164 Aug 13 23:46	23°  ☿25'18	
desc. node	14163 Sep 01 00:18	10°  ☿12'32		desc. node	14164 Aug 17 21:48	21°  ☿10'33	
direct	14163 Sep 07 12:21	7°  ☿50'14		direct	14164 Aug 20 11:26	20°  ☿46'34	
morning max el	14163 Sep 21 12:09	15°  ☿51'40	27°50'36	morning max el	14164 Sep 02 22:54	28°  ☿41'41	27°10'36
	14163 Oct 03 03:16	0°  ☿			14164 Sep 04 05:10	0°  ☿	
	14163 Oct 21 09:09	0°  ☿			14164 Sep 25 23:01	0°  ☿	
morning set	14163 Oct 26 00:34	9°  ☿04'35		morning set	14164 Oct 08 11:26	22°  ☿22'51	
asc. node	14163 Oct 26 05:11	9°  ☿27'58		asc. node	14164 Oct 12 01:50	29°  ☿31'30	
max. Earth dist.	14163 Oct 31 02:27	19°  ☿39'30	1.32082 AU		14164 Oct 12 07:27	0°  ☿	
				max. Earth dist.	14164 Oct 12 19:57	1°  ☿03'44	1.33368 AU
superior conj	14163 Nov 02 17:34	25°  ☿20'56	1°05'58				
minimum elong	14163 Nov 02 15:16	25°  ☿08'24	1°06'24	superior conj	14164 Oct 16 20:45	9°  ☿28'18	0°43'51
	14163 Nov 04 20:30	0°  ☿		minimum elong	14164 Oct 16 18:45	9°  ☿17'43	0°44'04
evening rise	14163 Nov 09 13:13	10°  ☿15'39		evening rise	14164 Oct 23 23:53	24°  ☿44'24	
	14163 Nov 19 12:17	0°  ☿			14164 Oct 26 12:05	0°  ☿	
desc. node	14163 Nov 27 20:55	12°  ☿48'54		desc. node	14164 Nov 13 18:08	28°  ☿59'22	
evening max el	14163 Dec 03 11:56	19°  ☿11'19	23°46'01	evening max el	14164 Nov 13 23:25	29°  ☿12'24	22°04'09
retrograde	14163 Dec 16 23:57	25°  ☿54'07			14164 Nov 14 19:30	0°  ☿	
evening set	14163 Dec 21 16:47	25°  ☿06'00		retrograde	14164 Nov 26 14:01	5°  ☿27'05	
min. Earth dist.	14163 Dec 27 22:55	22°  ☿04'19	0.55388 AU	evening set	14164 Nov 29 21:59	5°  ☿02'29	
inferior conj	14163 Dec 29 18:58	20°  ☿58'53	-5°48'09	min. Earth dist.	14164 Dec 08 05:09	1°  ☿21'05	0.54557 AU
minimum elong	14163 Dec 29 23:55	20°  ☿51'31	5°46'37	inferior conj	14164 Dec 08 13:55	1°  ☿08'48	-5°53'39
morning rise	14164 Jan 07 08:48	17°  ☿04'03		minimum elong	14164 Dec 08 10:02	1°  ☿14'15	5°52'18
direct	14164 Jan 09 23:43	16°  ☿46'56			14164 Dec 10 15:41	30°  ☿	
morning max el	14164 Jan 20 15:53	21°  ☿54'27	20°13'53	morning rise	14164 Dec 16 23:03	27°  ☿21'31	
asc. node	14164 Jan 22 04:39	23°  ☿29'00		direct	14164 Dec 20 10:38	26°  ☿54'37	
	14164 Jan 27 04:49	0°  ☿			14164 Dec 29 06:46	0°  ☿	
morning set	14164 Feb 07 22:19	21°  ☿31'20		morning max el	14165 Jan 01 14:59	2°  ☿45'30	21°45'34
	14164 Feb 12 01:15	0°  ☿		asc. node	14165 Jan 08 01:56	10°  ☿23'20	
					14165 Jan 19 07:34	0°  ☿	
superior conj	14164 Feb 15 13:57	7°  ☿11'03	1°04'32	morning set	14165 Jan 22 08:17	6°  ☿15'27	
minimum elong	14164 Feb 15 16:39	7°  ☿24'36	1°04'39				
max. Earth dist.	14164 Feb 21 06:14	18°  ☿17'49	1.36631 AU	superior conj	14165 Jan 29 12:04	21°  ☿24'38	1°22'10
desc. node	14164 Feb 23 21:34	23°  ☿13'32		minimum elong	14165 Jan 29 14:19	21°  ☿36'26	1°22'40
evening rise	14164 Feb 25 00:59	25°  ☿18'38			14165 Feb 02 16:16	0°  ☿	
	14164 Feb 27 16:04	0°  ☿		max. Earth dist.	14165 Feb 02 18:09	0°  ☿09'27	1.34647 AU
	14164 Mar 17 20:28	0°  ☿		evening rise	14165 Feb 06 23:30	8°  ☿26'06	
evening max el	14164 Mar 31 12:44	16°  ☿27'43	25°47'05	desc. node	14165 Feb 09 18:09	13°  ☿38'00	
retrograde	14164 Apr 13 01:03	23°  ☿39'47			14165 Feb 19 06:39	0°  ☿	
evening set	14164 Apr 19 01:54	21°  ☿10'45			14165 Mar 13 21:21	0°  ☿	
asc. node	14164 Apr 19 01:09	21°  ☿12'19		evening max el	14165 Mar 14 02:37	0°  ☿12'50	26°46'31
min. Earth dist.	14164 Apr 23 07:43	16°  ☿36'16	0.67517 AU	retrograde	14165 Mar 27 07:27	7°  ☿38'03	
inferior conj	14164 Apr 24 20:15	14°  ☿40'28	1°42'36	evening set	14165 Apr 02 18:10	5°  ☿05'58	
minimum elong	14164 Apr 24 18:12	14°  ☿46'59	1°41'17	asc. node	14165 Apr 05 22:36	2°  ☿01'45	
morning rise	14164 Apr 30 11:06	8°  ☿51'19		min. Earth dist.	14165 Apr 06 18:28	1°  ☿05'42	0.66169 AU
direct	14164 May 03 19:56	7°  ☿46'25			14165 Apr 07 16:58	30°  ☿	
morning max el	14164 May 10 13:52	11°  ☿25'02	18°52'40	inferior conj	14165 Apr 08 19:25	28°  ☿41'43	0°53'23

minimum elong	14165 Apr 08 18:06	28° $\Upsilon$ 45'39	0°52'29	transit begin	14166 Mar 23 07:59	12° $\Upsilon$ 34'56	
morning rise	14165 Apr 14 19:15	23° $\Upsilon$ 04'04		transit end	14166 Mar 23 13:23	12° $\Upsilon$ 20'27	
direct	14165 Apr 17 17:55	22° $\Upsilon$ 16'09		asc. node	14166 Mar 23 20:05	12° $\Upsilon$ 02'32	
morning max el	14165 Apr 24 03:07	25° $\Upsilon$ 37'46	18°13'29	morning rise	14166 Mar 29 21:52	7° $\Upsilon$ 04'36	
	14165 Apr 27 22:15	0° $\text{B}$		direct	14166 Apr 01 11:38	6° $\Upsilon$ 30'36	
desc. node	14165 May 08 20:25	16° $\text{B}$ 23'00		morning max el	14166 Apr 07 20:05	9° $\Upsilon$ 47'09	17°51'23
morning set	14165 May 13 11:56	23° $\text{B}$ 49'15			14166 Apr 21 17:46	0° $\text{B}$	
	14165 May 17 08:40	0° $\text{II}$		morning set	14166 Apr 25 00:15	5° $\text{B}$ 28'16	
				desc. node	14166 Apr 25 17:05	6° $\text{B}$ 38'40	
superior conj	14165 May 28 19:07	18° $\text{II}$ 03'19	-1°59'47				
minimum elong	14165 May 28 11:12	17° $\text{II}$ 32'22	2°00'17	superior conj	14166 May 08 13:44	27° $\text{B}$ 44'49	-1°29'32
max. Earth dist.	14165 May 30 10:10	20° $\text{II}$ 35'57	1.45868 AU	minimum elong	14166 May 08 05:12	27° $\text{B}$ 10'36	1°29'24
	14165 Jun 05 10:59	0° $\text{B}$			14166 May 09 23:35	0° $\text{II}$	
evening rise	14165 Jun 13 20:25	13° $\text{B}$ 03'14		max. Earth dist.	14166 May 13 06:18	5° $\text{II}$ 11'46	1.45322 AU
	14165 Jun 24 19:44	0° $\Omega$		evening rise	14166 May 24 09:51	22° $\text{II}$ 29'32	
greatest brilliancy	14165 Jun 24 23:45	0° $\Omega$ 15'13	-0.7m		14166 May 29 08:10	0° $\text{B}$	
asc. node	14165 Jul 02 20:42	11° $\Omega$ 31'45		greatest brilliancy	14166 Jun 08 07:58	14° $\text{B}$ 52'00	-0.6m
evening max el	14165 Jul 07 04:37	16° $\Omega$ 34'25	19°06'58	asc. node	14166 Jun 19 17:38	29° $\text{B}$ 44'12	
retrograde	14165 Jul 14 01:33	20° $\Omega$ 22'19			14166 Jun 19 23:43	0° $\Omega$	
evening set	14165 Jul 17 13:39	19° $\Omega$ 11'08		evening max el	14166 Jun 20 09:18	0° $\Omega$ 24'21	20°01'24
inferior conj	14165 Jul 23 00:43	13° $\Omega$ 23'36	2°58'22	retrograde	14166 Jun 28 00:15	4° $\Omega$ 44'31	
minimum elong	14165 Jul 23 02:12	13° $\Omega$ 18'48	2°57'19	evening set	14166 Jul 01 22:08	3° $\Omega$ 16'10	
min. Earth dist.	14165 Jul 24 13:38	11° $\Omega$ 24'47	0.66762 AU		14166 Jul 05 03:05	30° $\text{R}$ $\text{B}$	
morning rise	14165 Jul 28 14:05	6° $\Omega$ 58'45		inferior conj	14166 Jul 07 05:11	27° $\text{B}$ 15'34	3°10'07
direct	14165 Aug 03 17:25	4° $\Omega$ 20'25		minimum elong	14166 Jul 07 05:41	27° $\text{B}$ 13'53	3°09'06
desc. node	14165 Aug 04 19:16	4° $\Omega$ 24'46		min. Earth dist.	14166 Jul 08 03:52	25° $\text{B}$ 58'47	0.67977 AU
morning max el	14165 Aug 16 10:00	11° $\Omega$ 54'28	26°04'39	morning rise	14166 Jul 12 12:54	20° $\text{B}$ 52'33	
	14165 Aug 30 22:09	0° $\text{B}$		direct	14166 Jul 18 05:16	18° $\text{B}$ 22'48	
	14165 Sep 18 14:30	0° $\text{B}$		desc. node	14166 Jul 22 16:38	19° $\text{B}$ 38'01	
morning set	14165 Sep 21 09:14	5° $\text{B}$ 03'44		morning max el	14166 Jul 29 20:38	25° $\text{B}$ 21'12	24°42'12
max. Earth dist.	14165 Sep 25 03:37	12° $\text{B}$ 11'02	1.35167 AU		14166 Aug 03 02:05	0° $\Omega$	
asc. node	14165 Sep 28 22:26	19° $\text{B}$ 38'41			14166 Aug 24 09:51	0° $\text{B}$	
				morning set	14166 Sep 03 13:57	16° $\text{B}$ 58'16	
superior conj	14165 Sep 30 16:26	23° $\text{B}$ 11'25	0°16'18	max. Earth dist.	14166 Sep 07 03:50	23° $\text{B}$ 22'10	1.37355 AU
minimum elong	14165 Sep 30 15:31	23° $\text{B}$ 06'42	0°16'26		14166 Sep 10 17:38	0° $\text{B}$	
	14165 Oct 03 23:40	0° $\text{B}$					
evening rise	14165 Oct 08 08:14	9° $\text{B}$ 04'45		superior conj	14166 Sep 14 01:31	6° $\text{B}$ 22'56	-0°15'54
	14165 Oct 19 10:36	0° $\text{B}$		minimum elong	14166 Sep 14 02:33	6° $\text{B}$ 28'02	0°15'41
evening max el	14165 Oct 26 20:50	9° $\text{B}$ 39'08	20°34'03	behind sun begin	14166 Sep 14 00:59	6° $\text{B}$ 20'20	
desc. node	14165 Oct 31 15:27	13° $\text{B}$ 23'52		behind sun end	14166 Sep 14 04:08	6° $\text{B}$ 35'43	
retrograde	14165 Nov 07 00:33	15° $\text{B}$ 11'55		asc. node	14166 Sep 15 19:00	9° $\text{B}$ 46'11	
evening set	14165 Nov 09 07:22	14° $\text{B}$ 59'02		evening rise	14166 Sep 22 11:57	23° $\text{B}$ 11'08	
inferior conj	14165 Nov 18 05:46	11° $\text{B}$ 04'23	-4°59'05		14166 Sep 25 22:32	0° $\text{B}$	
minimum elong	14165 Nov 17 19:56	11° $\text{B}$ 18'37	4°55'44	evening max el	14166 Oct 09 08:29	20° $\text{B}$ 52'35	19°24'12
min. Earth dist.	14165 Nov 19 11:21	10° $\text{B}$ 21'35	0.54640 AU	retrograde	14166 Oct 18 20:46	25° $\text{B}$ 38'22	
morning rise	14165 Nov 26 08:17	7° $\text{B}$ 06'33		desc. node	14166 Oct 18 12:50	25° $\text{B}$ 38'02	
direct	14165 Nov 30 19:10	6° $\text{B}$ 23'59		evening set	14166 Oct 20 17:43	25° $\text{B}$ 28'05	
morning max el	14165 Dec 14 02:58	12° $\text{B}$ 53'44	23°32'38	inferior conj	14166 Oct 29 09:00	21° $\text{B}$ 20'22	-3°22'01
asc. node	14165 Dec 25 23:07	28° $\text{B}$ 15'41		minimum elong	14166 Oct 29 00:32	21° $\text{B}$ 34'07	3°18'15
	14165 Dec 27 00:14	0° $\text{B}$		min. Earth dist.	14166 Oct 31 20:55	19° $\text{B}$ 43'07	0.55633 AU
morning set	14166 Jan 06 20:03	21° $\text{B}$ 00'57		morning rise	14166 Nov 06 05:11	16° $\text{B}$ 52'47	
	14166 Jan 10 23:39	0° $\approx$		direct	14166 Nov 11 12:46	15° $\text{B}$ 48'56	
				morning max el	14166 Nov 25 12:41	22° $\text{B}$ 51'28	25°19'40
superior conj	14166 Jan 13 16:54	5° $\approx$ 54'42	1°33'09		14166 Dec 01 21:37	0° $\text{B}$	
minimum elong	14166 Jan 13 18:16	6° $\approx$ 02'01	1°33'59	asc. node	14166 Dec 12 20:11	16° $\text{B}$ 51'47	
max. Earth dist.	14166 Jan 16 13:49	12° $\approx$ 03'39	1.33043 AU		14166 Dec 19 14:54	0° $\text{B}$	
evening rise	14166 Jan 21 10:28	22° $\approx$ 03'43		morning set	14166 Dec 22 07:45	5° $\text{B}$ 42'27	
	14166 Jan 25 12:52	0° $\text{B}$					
desc. node	14166 Jan 27 14:47	3° $\text{B}$ 50'32		superior conj	14166 Dec 29 01:59	20° $\text{B}$ 34'04	1°37'49
	14166 Feb 13 01:32	0° $\Upsilon$		minimum elong	14166 Dec 29 02:16	20° $\text{B}$ 35'37	1°38'50
evening max el	14166 Feb 24 15:55	13° $\Upsilon$ 40'16	27°24'19	max. Earth dist.	14166 Dec 30 16:27	24° $\text{B}$ 05'51	1.31903 AU
retrograde	14166 Mar 10 07:20	21° $\Upsilon$ 08'30			14167 Jan 02 09:44	0° $\approx$	
evening set	14166 Mar 17 01:29	18° $\Upsilon$ 39'27		evening rise	14167 Jan 05 06:48	6° $\approx$ 03'38	
min. Earth dist.	14166 Mar 20 21:36	15° $\Upsilon$ 10'55	0.64448 AU	desc. node	14167 Jan 14 11:29	23° $\approx$ 45'11	
inferior conj	14166 Mar 23 10:27	12° $\Upsilon$ 28'18	-0°07'43		14167 Jan 18 02:43	0° $\text{B}$	
minimum elong	14166 Mar 23 10:41	12° $\Upsilon$ 27'41	0°07'45	evening max el	14167 Feb 07 02:36	26° $\text{B}$ 36'43	27°33'41
transit middle	14166 Mar 23 10:41	12° $\Upsilon$ 27'41	0°07'45		14167 Feb 11 01:47	0° $\Upsilon$	

retrograde	14167 Feb 20 23:53	4° $\Upsilon$ 01'06		evening max el	14168 Jan 20 08:21	8° $\text{X}$ 50'41	27°09'42
evening set	14167 Feb 27 21:15	1° $\Upsilon$ 42'22		retrograde	14168 Feb 03 08:02	16° $\text{X}$ 06'39	
	14167 Mar 02 03:22	30° $\text{R}$ $\text{X}$		evening set	14168 Feb 10 02:20	14° $\text{X}$ 06'26	
min. Earth dist.	14167 Mar 03 15:19	28° $\text{X}$ 40'45	0.62433 AU	min. Earth dist.	14168 Feb 13 22:48	11° $\text{X}$ 23'19	0.60250 AU
inferior conj	14167 Mar 06 14:13	25° $\text{X}$ 51'48	-1°20'39	inferior conj	14168 Feb 17 03:14	8° $\text{X}$ 43'30	-2°43'07
minimum elong	14167 Mar 06 16:57	25° $\text{X}$ 45'14	1°19'21	minimum elong	14168 Feb 17 09:11	8° $\text{X}$ 31'01	2°40'22
asc. node	14167 Mar 10 17:34	22° $\text{X}$ 17'54		morning rise	14168 Feb 24 19:19	3° $\text{X}$ 56'03	
morning rise	14167 Mar 13 15:27	20° $\text{X}$ 44'54		asc. node	14168 Feb 25 15:00	3° $\text{X}$ 45'28	
direct	14167 Mar 15 21:50	20° $\text{X}$ 21'23		direct	14168 Feb 26 20:40	3° $\text{X}$ 39'23	
morning max el	14167 Mar 22 13:43	23° $\text{X}$ 44'07	17°46'49	morning max el	14168 Mar 05 04:38	7° $\text{X}$ 19'07	18°00'43
	14167 Mar 27 14:43	0° $\Upsilon$			14168 Mar 19 18:32	0° $\Upsilon$	
morning set	14167 Apr 07 12:24	18° $\Upsilon$ 14'20		morning set	14168 Mar 20 18:19	1° $\Upsilon$ 49'34	
desc. node	14167 Apr 12 13:39	27° $\Upsilon$ 04'43		desc. node	14168 Mar 29 10:12	17° $\Upsilon$ 37'19	
	14167 Apr 14 06:15	0° $\text{B}$					
superior conj	14167 Apr 19 06:07	8° $\text{B}$ 28'08	-0°51'04	superior conj	14168 Mar 30 22:23	20° $\Upsilon$ 17'28	-0°12'05
minimum elong	14167 Apr 19 01:09	8° $\text{B}$ 07'25	0°50'53	minimum elong	14168 Mar 30 21:21	20° $\Upsilon$ 12'55	0°12'10
max. Earth dist.	14167 Apr 25 23:27	19° $\text{B}$ 28'57	1.44090 AU	behind sun begin	14168 Mar 30 16:10	19° $\Upsilon$ 50'04	
	14167 May 02 15:12	0° $\text{II}$		behind sun end	14168 Mar 31 02:32	20° $\Upsilon$ 35'44	
evening rise	14167 May 03 22:32	2° $\text{II}$ 01'23			14168 Apr 05 13:38	0° $\text{B}$	
	14167 May 22 21:01	0° $\text{B}$		max. Earth dist.	14168 Apr 07 11:58	3° $\text{B}$ 13'41	1.42310 AU
evening max el	14167 Jun 03 07:57	14° $\text{B}$ 14'05	21°09'15	evening rise	14168 Apr 13 00:59	12° $\text{B}$ 14'30	
asc. node	14167 Jun 06 14:40	17° $\text{B}$ 06'52			14168 Apr 24 14:54	0° $\text{II}$	
retrograde	14167 Jun 11 23:08	19° $\text{B}$ 15'22		evening max el	14168 May 16 01:34	28° $\text{II}$ 04'26	22°26'32
evening set	14167 Jun 16 07:29	17° $\text{B}$ 30'15			14168 May 18 02:48	0° $\text{B}$	
inferior conj	14167 Jun 21 13:16	11° $\text{B}$ 18'13	3°09'52	asc. node	14168 May 23 11:46	3° $\text{B}$ 24'36	
minimum elong	14167 Jun 21 12:47	11° $\text{B}$ 19'56	3°08'48	retrograde	14168 May 25 20:33	3° $\text{B}$ 49'52	
min. Earth dist.	14167 Jun 21 22:22	10° $\text{B}$ 46'35	0.68719 AU	evening set	14168 May 30 15:59	1° $\text{B}$ 49'12	
morning rise	14167 Jun 26 17:51	4° $\text{B}$ 59'47			14168 Jun 01 11:40	30° $\text{R}$ $\text{II}$	
direct	14167 Jul 01 21:56	2° $\text{B}$ 44'40		inferior conj	14168 Jun 04 22:54	25° $\text{II}$ 27'48	2°58'50
desc. node	14167 Jul 09 13:53	6° $\text{B}$ 23'19		minimum elong	14168 Jun 04 21:33	25° $\text{II}$ 32'30	2°57'37
morning max el	14167 Jul 12 07:31	8° $\text{B}$ 55'49	23°12'52	min. Earth dist.	14168 Jun 04 18:59	25° $\text{II}$ 41'27	0.68986 AU
	14167 Jul 28 20:55	0° $\Omega$		morning rise	14168 Jun 10 02:58	19° $\text{II}$ 15'51	
morning set	14167 Aug 15 21:04	27° $\Omega$ 55'30		direct	14168 Jun 14 18:26	17° $\text{II}$ 19'13	
	14167 Aug 17 02:49	0° $\text{M}$		morning max el	14168 Jun 23 21:09	22° $\text{II}$ 38'10	21°45'32
max. Earth dist.	14167 Aug 20 02:03	5° $\text{M}$ 03'27	1.39712 AU	desc. node	14168 Jun 25 11:04	24° $\text{II}$ 17'18	
					14168 Jun 30 06:31	0° $\text{B}$	
superior conj	14167 Aug 27 20:03	18° $\text{M}$ 53'34	-0°51'01		14168 Jul 21 04:05	0° $\Omega$	
minimum elong	14167 Aug 27 23:51	19° $\text{M}$ 11'05	0°50'41	morning set	14168 Jul 26 03:23	7° $\Omega$ 47'37	
asc. node	14167 Sep 02 15:34	29° $\text{M}$ 50'14		max. Earth dist.	14168 Aug 01 04:01	17° $\Omega$ 33'54	1.41977 AU
	14167 Sep 02 17:36	0° $\Omega$					
evening rise	14167 Sep 06 08:05	6° $\Omega$ 55'45		superior conj	14168 Aug 08 19:38	0° $\text{M}$ 33'08	-1°25'53
	14167 Sep 19 19:36	0° $\text{M}$		minimum elong	14168 Aug 09 02:10	1° $\text{M}$ 01'38	1°25'39
evening max el	14167 Sep 22 08:52	2° $\text{M}$ 54'32	18°36'30		14168 Aug 08 12:01	0° $\text{M}$	
retrograde	14167 Sep 30 10:48	6° $\text{M}$ 59'12		evening rise	14168 Aug 19 16:51	20° $\text{M}$ 08'29	
evening set	14167 Oct 02 09:20	6° $\text{M}$ 45'53		asc. node	14168 Aug 19 12:07	19° $\text{M}$ 46'46	
desc. node	14167 Oct 05 10:15	5° $\text{M}$ 36'32			14168 Aug 25 03:15	0° $\Omega$	
inferior conj	14167 Oct 10 08:29	2° $\text{M}$ 18'50	-1°34'09	evening max el	14168 Sep 04 17:58	15° $\Omega$ 35'50	18°09'47
minimum elong	14167 Oct 10 04:41	2° $\text{M}$ 26'03	1°32'09	retrograde	14168 Sep 11 19:29	19° $\Omega$ 11'57	
	14167 Oct 13 10:00	30° $\text{R}$ $\Omega$		evening set	14168 Sep 14 00:40	18° $\Omega$ 51'11	
min. Earth dist.	14167 Oct 13 12:38	29° $\Omega$ 55'13	0.57355 AU	inferior conj	14168 Sep 21 05:33	14° $\Omega$ 03'14	0°01'43
morning rise	14167 Oct 17 20:34	27° $\Omega$ 13'38		minimum elong	14168 Sep 21 05:37	14° $\Omega$ 03'06	0°01'51
direct	14167 Oct 23 21:00	25° $\Omega$ 43'23		transit middle	14168 Sep 21 05:37	14° $\Omega$ 03'06	0°01'51
	14167 Nov 03 10:51	0° $\text{M}$		transit begin	14168 Sep 21 02:15	14° $\Omega$ 10'32	
morning max el	14167 Nov 07 03:38	3° $\text{M}$ 12'19	26°47'42	transit end	14168 Sep 21 08:59	13° $\Omega$ 55'38	
	14167 Nov 26 10:46	0° $\text{X}$		desc. node	14168 Sep 21 07:46	13° $\Omega$ 58'21	
asc. node	14167 Nov 29 17:08	6° $\text{X}$ 00'25		min. Earth dist.	14168 Sep 24 12:10	11° $\Omega$ 10'41	0.59520 AU
morning set	14167 Dec 06 17:42	20° $\text{X}$ 15'20		morning rise	14168 Sep 28 07:12	8° $\Omega$ 24'29	
	14167 Dec 11 04:28	0° $\text{B}$		direct	14168 Oct 04 18:52	6° $\Omega$ 27'07	
				morning max el	14168 Oct 19 02:09	14° $\Omega$ 14'42	27°42'36
superior conj	14167 Dec 13 13:14	5° $\text{B}$ 16'45	1°36'26		14168 Oct 31 18:27	0° $\text{M}$	
minimum elong	14167 Dec 13 12:28	5° $\text{B}$ 12'27	1°37'28	asc. node	14168 Nov 15 13:59	25° $\text{M}$ 32'07	
max. Earth dist.	14167 Dec 13 23:32	6° $\text{B}$ 14'15	1.31269 AU		14168 Nov 17 19:18	0° $\text{X}$	
evening rise	14167 Dec 20 09:58	20° $\text{B}$ 19'44		morning set	14168 Nov 20 00:00	4° $\text{X}$ 33'53	
	14167 Dec 25 03:20	0° $\approx$		max. Earth dist.	14168 Nov 26 07:34	18° $\text{X}$ 20'37	1.31163 AU
desc. node	14168 Jan 01 08:16	13° $\approx$ 14'44					
	14168 Jan 12 11:58	0° $\text{X}$		superior conj	14168 Nov 27 00:42	19° $\text{X}$ 56'11	1°29'12
				minimum elong	14168 Nov 26 23:03	19° $\text{X}$ 47'00	1°30'03

	14168 Dec 01 13:14	0°♄		evening rise	14169 Nov 18 03:59	19°♄16'10	
evening rise	14168 Dec 03 17:39	4°♄45'28			14169 Nov 23 07:39	0°♄	
	14168 Dec 16 21:29	0°♄		desc. node	14169 Dec 05 02:10	20°♄14'01	
desc. node	14168 Dec 18 05:09	2°♄08'41			14169 Dec 13 02:24	0°♄	
evening max el	14169 Jan 01 06:47	20°♄13'08	26°11'10	evening max el	14169 Dec 13 21:00	0°♄45'26	24°43'51
retrograde	14169 Jan 15 05:42	27°♄17'49		retrograde	14169 Dec 27 14:46	7°♄37'04	
evening set	14169 Jan 21 12:47	25°♄43'26		evening set	14170 Jan 02 00:45	6°♄32'11	
min. Earth dist.	14169 Jan 25 20:10	23°♄06'31	0.58096 AU	min. Earth dist.	14170 Jan 07 08:50	3°♄45'14	0.56230 AU
inferior conj	14169 Jan 28 21:53	20°♄52'46	-4°08'12	inferior conj	14170 Jan 09 19:48	2°♄12'04	-5°20'52
minimum elong	14169 Jan 29 06:31	20°♄37'04	4°04'46	minimum elong	14170 Jan 10 03:49	1°♄59'23	5°18'23
morning rise	14169 Feb 06 03:15	16°♄26'40			14170 Jan 13 12:15	30°♄	
direct	14169 Feb 08 03:55	16°♄13'06		morning rise	14170 Jan 18 08:59	28°♄07'12	
asc. node	14169 Feb 11 12:25	16°♄52'21		direct	14170 Jan 20 16:16	27°♄52'38	
morning max el	14169 Feb 16 12:53	20°♄20'05	18°34'46		14170 Jan 27 05:42	0°♄	
	14169 Feb 23 18:56	0°♄		asc. node	14170 Jan 29 09:49	1°♄39'19	
morning set	14169 Mar 04 12:39	15°♄57'40		morning max el	14170 Jan 30 10:23	2°♄35'47	19°30'58
	14169 Mar 11 20:15	0°♄			14170 Feb 16 10:02	0°♄	
				morning set	14170 Feb 16 15:20	0°♄26'36	
superior conj	14169 Mar 13 11:18	3°♄02'43	0°22'45	superior conj	14170 Feb 24 16:19	16°♄31'21	0°51'15
minimum elong	14169 Mar 13 12:50	3°♄09'49	0°22'32	minimum elong	14170 Feb 24 18:55	16°♄44'05	0°51'11
desc. node	14169 Mar 16 06:43	8°♄12'20		max. Earth dist.	14170 Mar 03 02:46	28°♄44'05	1.37902 AU
max. Earth dist.	14169 Mar 20 20:14	16°♄18'14	1.40169 AU	desc. node	14170 Mar 03 03:14	28°♄46'10	
evening rise	14169 Mar 24 24:00	23°♄22'45			14170 Mar 03 19:24	0°♄	
	14169 Mar 29 01:01	0°♄		evening rise	14170 Mar 06 19:46	5°♄23'42	
	14169 Apr 18 12:11	0°♄			14170 Mar 22 00:43	0°♄	
evening max el	14169 Apr 28 16:14	11°♄57'06	23°47'42	evening max el	14170 Apr 11 05:50	25°♄50'41	25°06'04
retrograde	14169 May 09 15:03	18°♄23'03			14170 Apr 16 01:57	0°♄	
asc. node	14169 May 10 08:58	18°♄20'34		retrograde	14170 Apr 23 05:35	2°♄48'36	
evening set	14169 May 14 22:07	16°♄08'48		asc. node	14170 Apr 27 06:18	1°♄39'22	
min. Earth dist.	14169 May 19 15:33	10°♄37'43	0.68779 AU	evening set	14170 Apr 29 00:15	0°♄23'41	
inferior conj	14169 May 20 08:11	9°♄40'55	2°37'30		14170 Apr 29 10:57	30°♄	
minimum elong	14169 May 20 06:14	9°♄47'34	2°36'08	min. Earth dist.	14170 May 03 09:53	25°♄29'02	0.68109 AU
morning rise	14169 May 25 14:21	3°♄36'52		inferior conj	14170 May 04 15:11	23°♄53'05	2°05'46
direct	14169 May 29 17:25	2°♄00'35		minimum elong	14170 May 04 13:01	24°♄00'10	2°04'22
morning max el	14169 Jun 06 16:39	6°♄31'24	20°27'21	morning rise	14170 May 10 02:06	17°♄58'15	
desc. node	14169 Jun 12 08:09	13°♄01'54		direct	14170 May 13 17:24	16°♄42'17	
	14169 Jun 24 10:29	0°♄		morning max el	14170 May 20 19:42	20°♄35'54	19°22'44
morning set	14169 Jul 05 12:18	16°♄45'30			14170 May 28 12:25	0°♄	
	14169 Jul 13 22:34	0°♄		desc. node	14170 May 30 05:07	2°♄23'06	
max. Earth dist.	14169 Jul 14 13:05	0°♄58'08	1.43883 AU	greatest brilliancy	14170 Jun 02 12:08	7°♄10'12	-0.7m
				morning set	14170 Jun 14 14:48	25°♄31'44	
superior conj	14169 Jul 20 20:28	11°♄14'23	-1°55'14		14170 Jun 17 12:26	0°♄	
minimum elong	14169 Jul 21 03:40	11°♄44'10	1°55'31	max. Earth dist.	14170 Jun 27 04:36	15°♄04'08	1.45216 AU
	14169 Jul 31 21:17	0°♄					
evening rise	14169 Aug 02 09:37	2°♄38'11		superior conj	14170 Jun 30 22:05	20°♄57'57	-2°12'03
asc. node	14169 Aug 06 08:43	9°♄31'56		minimum elong	14170 Jul 01 01:11	21°♄10'15	2°13'00
evening max el	14169 Aug 19 07:35	28°♄46'27	18°02'34		14170 Jul 06 13:17	0°♄	
	14169 Aug 20 16:16	0°♄		evening rise	14170 Jul 15 05:15	14°♄12'26	
retrograde	14169 Aug 25 19:34	2°♄08'25		asc. node	14170 Jul 24 05:23	29°♄00'23	
evening set	14169 Aug 28 08:53	1°♄36'32			14170 Jul 24 20:25	0°♄	
	14169 Aug 31 01:37	30°♄		evening max el	14170 Aug 02 22:01	12°♄16'20	18°13'46
inferior conj	14169 Sep 03 21:29	26°♄29'04	1°16'39	retrograde	14170 Aug 09 06:34	15°♄38'12	
minimum elong	14169 Sep 03 23:30	26°♄23'57	1°15'48	evening set	14170 Aug 12 04:22	14°♄52'29	
min. Earth dist.	14169 Sep 06 20:58	23°♄29'06	0.61813 AU	inferior conj	14170 Aug 18 04:11	9°♄27'49	2°10'21
desc. node	14169 Sep 08 05:18	22°♄13'57		minimum elong	14170 Aug 18 06:38	9°♄20'51	2°09'13
morning rise	14169 Sep 10 11:36	20°♄25'55		min. Earth dist.	14170 Aug 20 15:28	6°♄40'13	0.63984 AU
direct	14169 Sep 17 03:46	18°♄06'12		morning rise	14170 Aug 24 07:15	3°♄09'57	
morning max el	14169 Oct 01 07:27	26°♄04'24	27°58'39	desc. node	14170 Aug 26 02:51	1°♄56'08	
	14169 Oct 04 23:18	0°♄		direct	14170 Aug 30 21:51	0°♄35'45	
	14169 Oct 25 08:16	0°♄		morning max el	14170 Sep 13 17:10	8°♄35'29	27°37'25
asc. node	14169 Nov 02 10:46	15°♄20'17			14170 Sep 30 08:22	0°♄	
morning set	14169 Nov 04 00:44	18°♄33'34			14170 Oct 17 15:28	0°♄	
	14169 Nov 09 09:53	0°♄		morning set	14170 Oct 18 17:28	2°♄08'14	
max. Earth dist.	14169 Nov 09 12:59	0°♄16'55	1.31595 AU	asc. node	14170 Oct 20 07:28	5°♄19'02	
				max. Earth dist.	14170 Oct 23 11:54	11°♄54'05	1.32566 AU
superior conj	14169 Nov 11 10:34	4°♄27'20	1°16'07				
minimum elong	14169 Nov 11 08:22	4°♄15'14	1°16'44				

superior conj	14170 Oct 26 16:48	18° $\mathbb{M}$ 44'18	0°57'16	minimum elong	14171 Oct 10 15:27	2° $\mathbb{M}$ 32'43	0°32'57
minimum elong	14170 Oct 26 14:33	18° $\mathbb{M}$ 32'08	0°57'37	evening rise	14171 Oct 18 00:59	18° $\mathbb{M}$ 11'36	
	14170 Oct 31 21:05	0° $\mathbb{A}$			14171 Oct 23 20:35	0° $\mathbb{A}$	
evening rise	14170 Nov 02 15:03	3° $\mathbb{A}$ 46'30		evening max el	14171 Nov 06 21:15	20° $\mathbb{A}$ 53'27	21°23'41
	14170 Nov 16 15:04	0° $\mathbb{B}$		desc. node	14171 Nov 08 20:34	22° $\mathbb{A}$ 40'55	
desc. node	14170 Nov 21 23:19	7° $\mathbb{B}$ 12'42		retrograde	14171 Nov 18 22:43	26° $\mathbb{A}$ 52'33	
evening max el	14170 Nov 25 06:44	10° $\mathbb{B}$ 46'38	23°02'06	evening set	14171 Nov 21 18:03	26° $\mathbb{A}$ 34'24	
retrograde	14170 Dec 08 11:07	17° $\mathbb{B}$ 19'25		inferior conj	14171 Nov 30 14:11	22° $\mathbb{A}$ 41'41	-5°37'31
evening set	14170 Dec 12 14:18	16° $\mathbb{B}$ 42'17		minimum elong	14171 Nov 30 06:54	22° $\mathbb{A}$ 51'54	5°35'23
min. Earth dist.	14170 Dec 19 16:03	13° $\mathbb{B}$ 26'02	0.54933 AU	min. Earth dist.	14171 Nov 30 21:56	22° $\mathbb{A}$ 30'47	0.54465 AU
inferior conj	14170 Dec 20 22:25	12° $\mathbb{B}$ 42'33	-5°57'44	morning rise	14171 Dec 08 20:25	18° $\mathbb{A}$ 52'25	
minimum elong	14170 Dec 20 23:54	12° $\mathbb{B}$ 40'26	5°56'38	direct	14171 Dec 12 17:37	18° $\mathbb{A}$ 19'49	
morning rise	14170 Dec 29 11:00	8° $\mathbb{B}$ 53'10		morning max el	14171 Dec 25 11:35	24° $\mathbb{A}$ 28'18	22°30'06
direct	14171 Jan 01 10:00	8° $\mathbb{B}$ 32'40			14171 Dec 30 10:43	0° $\mathbb{B}$	
morning max el	14171 Jan 12 17:53	13° $\mathbb{B}$ 58'03	20°50'25	asc. node	14172 Jan 03 04:25	5° $\mathbb{B}$ 13'02	
asc. node	14171 Jan 16 07:10	17° $\mathbb{B}$ 52'22		morning set	14172 Jan 16 10:21	29° $\mathbb{B}$ 52'58	
	14171 Jan 24 05:48	0° $\approx$			14172 Jan 16 11:41	0° $\approx$	
morning set	14171 Jan 31 23:23	15° $\approx$ 07'42					
				superior conj	14172 Jan 23 10:37	14° $\approx$ 53'49	1°27'36
superior conj	14171 Feb 08 09:18	0° $\mathbb{H}$ 32'05	1°12'50	minimum elong	14172 Jan 23 12:32	15° $\approx$ 03'58	1°28'16
minimum elong	14171 Feb 08 11:53	0° $\mathbb{H}$ 45'19	1°13'07	max. Earth dist.	14172 Jan 27 02:21	22° $\approx$ 33'11	1.33904 AU
	14171 Feb 08 03:02	0° $\mathbb{H}$			14172 Jan 30 19:08	0° $\mathbb{H}$	
max. Earth dist.	14171 Feb 13 11:32	10° $\mathbb{H}$ 43'10	1.35749 AU	evening rise	14172 Jan 31 13:45	1° $\mathbb{H}$ 30'59	
evening rise	14171 Feb 17 09:33	18° $\mathbb{H}$ 09'49		desc. node	14172 Feb 04 20:19	9° $\mathbb{H}$ 35'09	
desc. node	14171 Feb 17 23:45	19° $\mathbb{H}$ 15'23			14172 Feb 17 01:00	0° $\mathbb{Y}$	
	14171 Feb 24 01:29	0° $\mathbb{Y}$		evening max el	14172 Mar 06 08:59	23° $\mathbb{Y}$ 18'58	27°05'33
	14171 Mar 16 06:01	0° $\mathbb{B}$			14172 Mar 15 20:00	0° $\mathbb{B}$	
evening max el	14171 Mar 24 19:25	9° $\mathbb{B}$ 40'43	26°14'26	retrograde	14172 Mar 19 19:12	0° $\mathbb{B}$ 47'25	
retrograde	14171 Apr 06 15:15	16° $\mathbb{B}$ 59'43			14172 Mar 23 12:31	30° $\mathbb{R}$ $\mathbb{Y}$	
evening set	14171 Apr 12 20:42	14° $\mathbb{B}$ 28'24		evening set	14172 Mar 26 09:27	28° $\mathbb{Y}$ 15'31	
asc. node	14171 Apr 14 03:42	13° $\mathbb{B}$ 18'27		min. Earth dist.	14172 Mar 30 07:39	24° $\mathbb{Y}$ 29'17	0.65481 AU
min. Earth dist.	14171 Apr 16 23:56	10° $\mathbb{B}$ 09'01	0.66999 AU	asc. node	14172 Mar 31 01:10	23° $\mathbb{Y}$ 40'18	
inferior conj	14171 Apr 18 17:52	8° $\mathbb{B}$ 00'01	1°23'10	inferior conj	14172 Apr 01 13:54	21° $\mathbb{Y}$ 55'40	0°28'58
minimum elong	14171 Apr 18 16:02	8° $\mathbb{B}$ 05'41	1°21'58	minimum elong	14172 Apr 01 13:07	21° $\mathbb{Y}$ 57'53	0°28'22
morning rise	14171 Apr 24 12:14	2° $\mathbb{B}$ 15'47		morning rise	14172 Apr 07 18:23	16° $\mathbb{Y}$ 23'49	
direct	14171 Apr 27 16:37	1° $\mathbb{B}$ 18'31		direct	14172 Apr 10 13:00	15° $\mathbb{Y}$ 42'24	
morning max el	14171 May 04 05:50	4° $\mathbb{B}$ 48'07	18°33'58	morning max el	14172 Apr 16 21:03	19° $\mathbb{Y}$ 00'37	18°01'55
desc. node	14171 May 17 01:57	22° $\mathbb{B}$ 11'06			14172 Apr 25 06:01	0° $\mathbb{B}$	
	14171 May 22 02:23	0° $\mathbb{II}$		desc. node	14172 May 02 22:39	12° $\mathbb{B}$ 18'01	
morning set	14171 May 25 08:04	5° $\mathbb{II}$ 04'49		morning set	14172 May 05 04:19	15° $\mathbb{B}$ 56'54	
					14172 May 13 20:45	0° $\mathbb{II}$	
superior conj	14171 Jun 10 08:15	0° $\mathbb{B}$ 07'03	-2°10'04				
minimum elong	14171 Jun 10 03:38	29° $\mathbb{II}$ 49'04	2°10'58	superior conj	14172 May 19 18:56	9° $\mathbb{II}$ 24'19	-1°48'32
max. Earth dist.	14171 Jun 09 23:38	29° $\mathbb{II}$ 33'26	1.45846 AU	minimum elong	14172 May 19 09:59	8° $\mathbb{II}$ 49'03	1°48'42
	14171 Jun 10 06:26	0° $\mathbb{B}$		max. Earth dist.	14172 May 22 19:29	14° $\mathbb{II}$ 09'01	1.45724 AU
evening rise	14171 Jun 26 00:19	24° $\mathbb{B}$ 45'05			14172 Jun 02 00:25	0° $\mathbb{B}$	
	14171 Jun 29 07:45	0° $\mathbb{Q}$		evening rise	14172 Jun 04 21:20	4° $\mathbb{B}$ 25'44	
greatest brilliancy	14171 Jul 04 01:30	7° $\mathbb{Q}$ 28'59	-0.8m	greatest brilliancy	14172 Jun 18 00:05	24° $\mathbb{B}$ 22'47	-0.7m
asc. node	14171 Jul 11 02:10	18° $\mathbb{Q}$ 06'08			14172 Jun 21 21:20	0° $\mathbb{Q}$	
evening max el	14171 Jul 17 10:17	25° $\mathbb{Q}$ 58'20	18°42'38	asc. node	14172 Jun 26 23:01	6° $\mathbb{Q}$ 40'55	
retrograde	14171 Jul 24 00:28	29° $\mathbb{Q}$ 33'26		evening max el	14172 Jun 29 18:09	9° $\mathbb{Q}$ 46'37	19°28'20
evening set	14171 Jul 27 07:07	28° $\mathbb{Q}$ 31'59		retrograde	14172 Jul 06 22:04	13° $\mathbb{Q}$ 47'15	
inferior conj	14171 Aug 01 21:50	22° $\mathbb{Q}$ 52'16	2°45'24	evening set	14172 Jul 10 14:09	12° $\mathbb{Q}$ 29'00	
minimum elong	14171 Aug 01 23:49	22° $\mathbb{Q}$ 46'08	2°44'18	inferior conj	14172 Jul 15 23:10	6° $\mathbb{Q}$ 35'48	3°04'55
min. Earth dist.	14171 Aug 03 19:03	20° $\mathbb{Q}$ 32'21	0.65860 AU	minimum elong	14172 Jul 16 00:14	6° $\mathbb{Q}$ 32'14	3°03'54
morning rise	14171 Aug 07 15:33	16° $\mathbb{Q}$ 27'56		min. Earth dist.	14172 Jul 17 06:02	4° $\mathbb{Q}$ 53'55	0.67333 AU
desc. node	14171 Aug 13 00:21	13° $\mathbb{Q}$ 51'58		morning rise	14172 Jul 21 09:48	0° $\mathbb{Q}$ 11'02	
direct	14171 Aug 13 23:55	13° $\mathbb{Q}$ 48'24			14172 Jul 21 14:52	30° $\mathbb{R}$ $\mathbb{B}$	
morning max el	14171 Aug 27 04:30	21° $\mathbb{Q}$ 36'55	26°45'11	direct	14172 Jul 27 08:41	27° $\mathbb{B}$ 35'14	
	14171 Sep 03 12:02	0° $\mathbb{P}$		desc. node	14172 Jul 29 21:46	27° $\mathbb{B}$ 59'38	
	14171 Sep 23 13:18	0° $\mathbb{A}$			14172 Aug 02 21:23	0° $\mathbb{Q}$	
morning set	14171 Oct 01 23:13	15° $\mathbb{A}$ 11'10		morning max el	14172 Aug 08 15:26	4° $\mathbb{Q}$ 56'41	25°30'56
max. Earth dist.	14171 Oct 06 01:17	23° $\mathbb{A}$ 09'22	1.34072 AU		14172 Aug 27 22:10	0° $\mathbb{P}$	
asc. node	14171 Oct 07 04:05	25° $\mathbb{A}$ 24'03		morning set	14172 Sep 13 14:20	27° $\mathbb{P}$ 34'02	
	14171 Oct 09 10:03	0° $\mathbb{M}$			14172 Sep 14 22:22	0° $\mathbb{A}$	
				max. Earth dist.	14172 Sep 17 04:56	4° $\mathbb{A}$ 13'48	1.36053 AU
superior conj	14171 Oct 10 17:06	2° $\mathbb{M}$ 41'18	0°32'47				

superior conj	14172 Sep 23 08:43	16° $\Omega$ 12'06	0°03'08	morning set	14173 Aug 26 10:17	9° $\Pi$ 04'48	
minimum elong	14172 Sep 23 08:31	16° $\Omega$ 11'07	0°03'18	max. Earth dist.	14173 Aug 30 03:09	15° $\Pi$ 32'55	1.38353 AU
behind sun begin	14172 Sep 23 02:21	15° $\Omega$ 40'16					
behind sun end	14172 Sep 23 14:42	16° $\Omega$ 42'02		superior conj	14173 Sep 06 12:05	29° $\Pi$ 07'18	-0°30'35
asc. node	14172 Sep 23 00:39	15° $\Omega$ 31'49		minimum elong	14173 Sep 06 14:14	29° $\Pi$ 17'30	0°30'20
	14172 Sep 30 03:04	0° $\Pi$			14173 Sep 06 23:09	0° $\Omega$	
evening rise	14172 Oct 01 07:40	2° $\Pi$ 26'41		asc. node	14173 Sep 09 21:10	5° $\Omega$ 37'59	
	14172 Oct 17 11:33	0° $\Sigma$		evening rise	14173 Sep 15 08:30	16° $\Omega$ 24'18	
evening max el	14172 Oct 19 00:43	1° $\Sigma$ 39'21	20°01'43		14173 Sep 22 12:09	0° $\Pi$	
desc. node	14172 Oct 25 17:54	6° $\Sigma$ 12'38		evening max el	14173 Oct 01 18:16	13° $\Pi$ 14'07	19°01'16
retrograde	14172 Oct 29 11:43	6° $\Sigma$ 51'51		retrograde	14173 Oct 10 14:35	17° $\Pi$ 40'36	
evening set	14172 Oct 31 12:21	6° $\Sigma$ 41'01		evening set	14173 Oct 12 11:27	17° $\Pi$ 29'31	
inferior conj	14172 Nov 09 09:21	2° $\Sigma$ 42'29	-4°21'17	desc. node	14173 Oct 12 15:20	17° $\Pi$ 27'33	
minimum elong	14172 Nov 08 23:20	2° $\Sigma$ 57'36	4°17'24	inferior conj	14173 Oct 20 20:31	13° $\Pi$ 14'07	-2°35'50
min. Earth dist.	14172 Nov 11 05:35	1° $\Sigma$ 35'46	0.54951 AU	minimum elong	14173 Oct 20 13:57	13° $\Pi$ 25'29	2°32'40
	14172 Nov 14 01:39	30° $\Sigma$		min. Earth dist.	14173 Oct 23 17:17	11° $\Pi$ 15'37	0.56297 AU
morning rise	14172 Nov 17 09:09	28° $\Pi$ 33'29		morning rise	14173 Oct 28 13:37	8° $\Pi$ 31'05	
direct	14172 Nov 22 05:20	27° $\Pi$ 42'21		direct	14173 Nov 03 05:18	7° $\Pi$ 16'11	
	14172 Nov 30 01:34	0° $\Sigma$		morning max el	14173 Nov 17 08:27	14° $\Pi$ 30'15	26°00'27
morning max el	14172 Dec 05 21:28	4° $\Sigma$ 27'46	24°19'17		14173 Nov 29 16:24	0° $\Sigma$	
asc. node	14172 Dec 20 01:33	23° $\Sigma$ 25'26		asc. node	14173 Dec 06 22:34	12° $\Sigma$ 16'09	
	14172 Dec 23 17:22	0° $\Sigma$		morning set	14173 Dec 15 09:24	29° $\Sigma$ 14'32	
morning set	14172 Dec 30 22:17	14° $\Sigma$ 36'57			14173 Dec 15 17:51	0° $\Sigma$	
superior conj	14173 Jan 06 17:32	29° $\Sigma$ 28'32	1°35'52	superior conj	14173 Dec 22 03:45	14° $\Sigma$ 09'15	1°37'58
minimum elong	14173 Jan 06 18:27	29° $\Sigma$ 33'30	1°36'49	minimum elong	14173 Dec 22 03:34	14° $\Sigma$ 08'16	1°39'00
	14173 Jan 06 23:18	0° $\approx$		max. Earth dist.	14173 Dec 23 05:53	16° $\Sigma$ 34'21	1.31572 AU
max. Earth dist.	14173 Jan 09 00:57	4° $\approx$ 29'17	1.32495 AU	evening rise	14173 Dec 29 04:35	29° $\Sigma$ 26'05	
evening rise	14173 Jan 14 05:03	15° $\approx$ 18'57			14173 Dec 29 11:04	0° $\approx$	
desc. node	14173 Jan 21 16:58	29° $\approx$ 40'36		desc. node	14174 Jan 08 13:42	19° $\approx$ 25'18	
	14173 Jan 21 21:16	0° $\text{H}$			14174 Jan 15 00:15	0° $\text{H}$	
	14173 Feb 10 19:41	0° $\Upsilon$		evening max el	14174 Jan 30 06:38	19° $\text{H}$ 15'08	27°27'53
evening max el	14173 Feb 16 21:28	6° $\Upsilon$ 34'49	27°32'09	retrograde	14174 Feb 13 05:16	26° $\text{H}$ 35'36	
retrograde	14173 Mar 02 16:16	14° $\Upsilon$ 02'30		evening set	14174 Feb 20 02:07	24° $\text{H}$ 24'09	
evening set	14173 Mar 09 12:12	11° $\Upsilon$ 37'05		min. Earth dist.	14174 Feb 23 20:40	21° $\text{H}$ 31'26	0.61513 AU
min. Earth dist.	14173 Mar 13 07:08	8° $\Upsilon$ 20'27	0.63620 AU	inferior conj	14174 Feb 26 22:29	18° $\text{H}$ 44'42	-1°54'44
inferior conj	14173 Mar 16 00:32	5° $\Upsilon$ 33'25	-0°37'16	minimum elong	14174 Feb 27 02:33	18° $\text{H}$ 35'30	1°52'47
minimum elong	14173 Mar 16 01:43	5° $\Upsilon$ 30'23	0°36'47	asc. node	14174 Mar 04 20:06	14° $\text{H}$ 19'12	
asc. node	14173 Mar 17 22:38	3° $\Upsilon$ 38'50		morning rise	14174 Mar 06 05:59	13° $\text{H}$ 45'24	
morning rise	14173 Mar 22 17:36	0° $\Upsilon$ 16'18		direct	14174 Mar 08 09:56	13° $\text{H}$ 25'08	
	14173 Mar 23 13:28	30° $\text{H}$		morning max el	14174 Mar 15 07:29	16° $\text{H}$ 53'53	17°50'23
direct	14173 Mar 25 03:54	29° $\text{H}$ 47'18			14174 Mar 24 14:40	0° $\Upsilon$	
	14173 Mar 26 18:11	0° $\Upsilon$		morning set	14174 Mar 31 00:02	11° $\Upsilon$ 16'24	
morning max el	14173 Mar 31 14:38	3° $\Upsilon$ 05'29	17°47'09	desc. node	14174 Apr 06 15:50	23° $\Upsilon$ 07'54	
morning set	14173 Apr 17 03:31	28° $\Upsilon$ 06'33			14174 Apr 10 14:53	0° $\Sigma$	
	14173 Apr 18 06:05	0° $\Sigma$		superior conj	14174 Apr 11 00:43	0° $\Sigma$ 42'05	-0°34'14
desc. node	14173 Apr 19 19:16	2° $\Sigma$ 38'24		minimum elong	14174 Apr 10 21:32	0° $\Sigma$ 28'29	0°34'10
superior conj	14173 Apr 29 21:59	19° $\Sigma$ 29'53	-1°13'42	max. Earth dist.	14174 Apr 18 06:04	12° $\Sigma$ 44'23	1.43396 AU
minimum elong	14173 Apr 29 14:42	19° $\Sigma$ 00'15	1°13'28	evening rise	14174 Apr 25 01:39	23° $\Sigma$ 36'16	
max. Earth dist.	14173 May 05 14:15	28° $\Sigma$ 37'22	1.44881 AU		14174 Apr 29 05:03	0° $\Pi$	
	14173 May 06 11:07	0° $\Pi$			14174 May 20 05:40	0° $\Theta$	
evening rise	14173 May 15 08:19	13° $\Pi$ 48'50		evening max el	14174 May 26 16:47	7° $\Theta$ 27'37	21°41'15
	14173 May 26 02:12	0° $\Theta$		asc. node	14174 May 31 17:01	11° $\Theta$ 31'30	
evening max el	14173 Jun 12 20:17	23° $\Theta$ 36'41	20°28'55	retrograde	14174 Jun 04 19:18	12° $\Theta$ 47'01	
asc. node	14173 Jun 13 19:58	24° $\Theta$ 33'42		evening set	14174 Jun 09 08:23	10° $\Theta$ 54'59	
retrograde	14173 Jun 20 20:56	28° $\Theta$ 13'17		inferior conj	14174 Jun 14 14:25	4° $\Theta$ 38'52	3°06'26
evening set	14173 Jun 24 23:11	26° $\Theta$ 37'51		minimum elong	14174 Jun 14 13:32	4° $\Theta$ 41'56	3°05'19
inferior conj	14173 Jun 30 05:25	20° $\Theta$ 32'27	3°11'22	min. Earth dist.	14174 Jun 14 17:54	4° $\Theta$ 26'41	0.68900 AU
minimum elong	14173 Jun 30 05:29	20° $\Theta$ 32'13	3°10'21		14174 Jun 18 03:56	30° $\text{H}$	
min. Earth dist.	14173 Jun 30 22:19	19° $\Theta$ 34'26	0.68355 AU	morning rise	14174 Jun 19 18:29	28° $\Pi$ 23'14	
morning rise	14173 Jul 05 11:29	14° $\Theta$ 11'08		direct	14174 Jun 24 17:17	26° $\Pi$ 15'38	
direct	14173 Jul 10 22:50	11° $\Theta$ 46'43			14174 Jul 02 08:32	0° $\Theta$	
desc. node	14173 Jul 16 19:06	13° $\Theta$ 54'52		desc. node	14174 Jul 03 16:20	1° $\Theta$ 12'23	
morning max el	14173 Jul 22 01:41	18° $\Theta$ 25'56	24°04'21	morning max el	14174 Jul 04 13:20	2° $\Theta$ 03'50	22°34'58
	14173 Jul 31 19:17	0° $\Omega$			14174 Jul 25 17:52	0° $\Omega$	
	14173 Aug 21 00:04	0° $\Pi$		morning set	14174 Aug 07 06:58	19° $\Omega$ 34'28	



max. Earth dist.	14174 Aug 12 02:55	27°♎35'59	1.40714 AU	morning set	14175 Jul 18 03:18	29°♏01'18	
	14174 Aug 13 12:46	0°♎			14175 Jul 18 18:15	0°♎	
				max. Earth dist.	14175 Jul 25 08:12	10°♎31'42	1.42852 AU
superior conj	14174 Aug 19 23:08	11°♎17'38	-1°06'05				
minimum elong	14174 Aug 20 04:10	11°♎40'21	1°05'46	superior conj	14175 Aug 01 13:23	22°♎32'57	-1°39'24
asc. node	14174 Aug 27 17:43	25°♎39'23		minimum elong	14175 Aug 01 20:38	23°♎03'49	1°39'19
evening rise	14174 Aug 30 00:19	29°♎56'49			14175 Aug 05 20:58	0°♎	
	14174 Aug 30 00:59	0°♎		evening rise	14175 Aug 13 02:57	12°♎53'16	
evening max el	14174 Sep 14 22:51	25°♎33'40	18°22'35	asc. node	14175 Aug 14 14:18	15°♎31'51	
retrograde	14174 Sep 22 12:58	29°♎24'34			14175 Aug 23 00:04	0°♎	
evening set	14174 Sep 24 14:05	29°♎08'29		evening max el	14175 Aug 29 10:17	8°♎28'23	18°04'19
desc. node	14174 Sep 29 12:48	26°♎36'45		retrograde	14175 Sep 05 04:56	11°♎57'07	
inferior conj	14174 Oct 02 05:20	24°♎32'01	-0°51'10	evening set	14175 Sep 07 13:22	11°♎32'07	
minimum elong	14174 Oct 02 03:24	24°♎35'58	0°50'02	inferior conj	14175 Sep 14 10:57	6°♎35'29	0°36'12
min. Earth dist.	14174 Oct 05 11:50	21°♎53'55	0.58247 AU	minimum elong	14175 Sep 14 12:04	6°♎32'51	0°35'48
morning rise	14174 Oct 09 13:15	19°♎11'45		desc. node	14175 Sep 16 10:19	4°♎43'36	
direct	14174 Oct 15 19:09	17°♎30'03		min. Earth dist.	14175 Sep 17 15:20	3°♎37'04	0.60494 AU
morning max el	14174 Oct 30 02:34	25°♎06'56	27°15'44	morning rise	14175 Sep 21 07:41	0°♎44'44	
	14174 Nov 03 15:17	0°♎			14175 Sep 22 14:29	30°♎	
	14174 Nov 22 23:37	0°♎		direct	14175 Sep 27 21:50	28°♎37'13	
asc. node	14174 Nov 23 19:28	1°♎35'22			14175 Oct 03 12:00	0°♎	
morning set	14174 Nov 29 18:01	13°♎41'36		morning max el	14175 Oct 12 04:33	6°♎30'54	27°54'18
					14175 Oct 29 21:50	0°♎	
superior conj	14174 Dec 06 15:17	28°♎50'37	1°34'05	asc. node	14175 Nov 10 16:18	21°♎15'09	
minimum elong	14174 Dec 06 14:07	28°♎44'04	1°35'03	morning set	14175 Nov 13 22:17	27°♎53'23	
max. Earth dist.	14174 Dec 06 14:01	28°♎43'33	1.31161 AU		14175 Nov 14 22:20	0°♎	
	14174 Dec 07 03:41	0°♎		max. Earth dist.	14175 Nov 19 21:31	10°♎47'30	1.31276 AU
evening rise	14174 Dec 13 09:55	13°♎46'33					
	14174 Dec 21 12:13	0°♎		superior conj	14175 Nov 21 02:20	13°♎27'30	1°24'22
desc. node	14174 Dec 26 10:32	8°♎40'55		minimum elong	14175 Nov 21 00:24	13°♎16'47	1°25'07
	14175 Jan 11 05:56	0°♎		evening rise	14175 Nov 27 18:59	28°♎15'10	
evening max el	14175 Jan 12 09:34	1°♎07'28	26°48'53		14175 Nov 28 14:30	0°♎	
retrograde	14175 Jan 26 08:50	8°♎18'18		desc. node	14175 Dec 13 07:29	27°♎16'32	
evening set	14175 Feb 01 23:44	6°♎28'11			14175 Dec 15 03:18	0°♎	
min. Earth dist.	14175 Feb 05 23:29	3°♎49'47	0.59314 AU	evening max el	14175 Dec 25 04:11	12°♎07'01	25°36'52
inferior conj	14175 Feb 09 04:05	1°♎19'07	-3°19'35	retrograde	14176 Jan 08 01:38	19°♎07'20	
minimum elong	14175 Feb 09 11:22	1°♎04'45	3°16'23	evening set	14176 Jan 14 01:08	17°♎44'56	
	14175 Feb 10 21:02	30°♎		min. Earth dist.	14176 Jan 18 16:45	15°♎06'08	0.57244 AU
morning rise	14175 Feb 17 02:12	26°♎40'42		inferior conj	14176 Jan 21 14:04	13°♎07'48	-4°41'47
direct	14175 Feb 19 02:46	26°♎25'41		minimum elong	14176 Jan 21 23:04	12°♎52'26	4°38'34
asc. node	14175 Feb 19 17:34	26°♎27'08		morning rise	14176 Jan 29 23:45	8°♎51'28	
	14175 Feb 26 13:38	0°♎		direct	14176 Feb 01 02:04	8°♎38'05	
morning max el	14175 Feb 26 20:03	0°♎15'26	18°12'45	asc. node	14176 Feb 06 15:00	10°♎18'04	
morning set	14175 Mar 14 11:49	25°♎07'18		morning max el	14176 Feb 10 00:20	12°♎59'15	18°55'58
	14175 Mar 17 02:00	0°♎			14176 Feb 21 12:26	0°♎	
				morning set	14176 Feb 26 10:08	9°♎25'31	
superior conj	14175 Mar 24 02:21	12°♎56'54	0°03'23				
minimum elong	14175 Mar 24 02:35	12°♎58'00	0°03'13	superior conj	14176 Mar 05 22:43	26°♎02'34	0°35'38
behind sun begin	14175 Mar 23 19:11	12°♎24'37		minimum elong	14176 Mar 06 00:52	26°♎12'45	0°35'28
behind sun end	14175 Mar 24 09:59	13°♎31'17			14176 Mar 08 01:08	0°♎	
desc. node	14175 Mar 24 12:21	13°♎41'54		desc. node	14176 Mar 10 08:53	4°♎17'03	
max. Earth dist.	14175 Mar 31 17:08	26°♎14'34	1.41426 AU	max. Earth dist.	14176 Mar 12 23:55	9°♎00'35	1.39198 AU
	14175 Apr 02 23:01	0°♎		evening rise	14176 Mar 16 20:30	15°♎43'21	
evening rise	14175 Apr 05 12:28	4°♎12'03			14176 Mar 25 14:18	0°♎	
	14175 Apr 22 11:19	0°♎			14176 Apr 16 04:03	0°♎	
evening max el	14175 May 09 08:50	21°♎18'48	23°00'51	evening max el	14176 Apr 20 22:39	5°♎11'24	24°21'43
asc. node	14175 May 18 14:12	27°♎17'08		retrograde	14176 May 02 08:47	11°♎53'01	
retrograde	14175 May 19 15:40	27°♎22'12		asc. node	14176 May 04 11:28	11°♎33'25	
evening set	14175 May 24 16:07	25°♎15'10		evening set	14176 May 07 20:47	9°♎33'39	
min. Earth dist.	14175 May 29 14:42	19°♎23'15	0.68960 AU	min. Earth dist.	14176 May 12 10:38	4°♎18'05	0.68547 AU
inferior conj	14175 May 30 00:08	18°♎50'33	2°51'01	inferior conj	14176 May 13 08:42	3°♎03'47	2°25'21
minimum elong	14175 May 29 22:30	18°♎56'12	2°49'45	minimum elong	14176 May 13 06:36	3°♎10'50	2°23'57
morning rise	14175 Jun 04 04:48	12°♎42'00			14176 May 15 17:28	30°♎	
direct	14175 Jun 08 14:53	10°♎54'09		morning rise	14176 May 18 16:34	27°♎03'28	
morning max el	14175 Jun 17 05:21	15°♎51'28	21°10'53	direct	14176 May 22 14:25	25°♎36'07	
desc. node	14175 Jun 20 13:29	19°♎30'04		morning max el	14176 May 30 04:04	29°♎50'01	19°58'01
	14175 Jun 28 15:26	0°♎			14176 May 30 08:05	0°♎	

desc. node	14176 Jun 06 10:31	8° $\Pi$ 31'42		morning set	14177 Jun 05 13:24	16° $\Pi$ 47'07	
	14176 Jun 21 04:30	0° $\mathfrak{E}$			14177 Jun 14 01:48	0° $\mathfrak{E}$	
morning set	14176 Jun 26 07:00	7° $\mathfrak{E}$ 47'27		max. Earth dist.	14177 Jun 19 12:41	8° $\mathfrak{E}$ 30'42	1.45571 AU
max. Earth dist.	14176 Jul 06 19:43	24° $\mathfrak{E}$ 13'43	1.44528 AU				
	14176 Jul 10 10:20	0° $\Omega$		superior conj	14177 Jun 21 21:41	12° $\mathfrak{E}$ 14'18	-2°13'43
				minimum elong	14177 Jun 21 21:36	12° $\mathfrak{E}$ 13'59	2°14'47
superior conj	14176 Jul 12 04:03	2° $\Omega$ 48'37	-2°04'21		14177 Jul 03 01:29	0° $\Omega$	
minimum elong	14176 Jul 12 10:11	3° $\Omega$ 13'32	2°04'56	evening rise	14177 Jul 06 20:45	6° $\Omega$ 09'22	
evening rise	14176 Jul 25 11:23	25° $\Omega$ 00'59		asc. node	14177 Jul 18 07:39	24° $\Omega$ 31'02	
	14176 Jul 28 09:29	0° $\mathfrak{P}$			14177 Jul 22 02:00	0° $\mathfrak{P}$	
asc. node	14176 Jul 31 10:55	5° $\mathfrak{P}$ 10'47		evening max el	14177 Jul 26 14:37	5° $\mathfrak{P}$ 25'31	18°23'58
evening max el	14176 Aug 12 00:39	21° $\mathfrak{P}$ 48'25	18°05'07	retrograde	14177 Aug 02 00:25	8° $\mathfrak{P}$ 51'06	
retrograde	14176 Aug 18 10:10	25° $\mathfrak{P}$ 08'48		evening set	14177 Aug 05 01:59	7° $\mathfrak{P}$ 58'52	
evening set	14176 Aug 21 02:57	24° $\mathfrak{P}$ 31'29		inferior conj	14177 Aug 10 21:31	2° $\mathfrak{P}$ 27'52	2°27'15
inferior conj	14176 Aug 27 09:41	19° $\mathfrak{P}$ 16'41	1°41'54	minimum elong	14177 Aug 10 23:51	2° $\mathfrak{P}$ 21'00	2°26'07
minimum elong	14176 Aug 27 12:02	19° $\mathfrak{P}$ 10'24	1°40'51		14177 Aug 12 23:40	30° $\mathfrak{R}$ $\Omega$	
min. Earth dist.	14176 Aug 30 04:31	16° $\mathfrak{P}$ 19'25	0.62763 AU	min. Earth dist.	14177 Aug 13 03:01	29° $\Omega$ 50'22	0.64830 AU
desc. node	14176 Sep 02 07:53	13° $\mathfrak{P}$ 26'57		morning rise	14177 Aug 16 20:23	26° $\Omega$ 06'36	
morning rise	14176 Sep 02 18:56	13° $\mathfrak{P}$ 05'58		desc. node	14177 Aug 20 05:24	24° $\Omega$ 04'32	
direct	14176 Sep 09 11:08	10° $\mathfrak{P}$ 38'38		direct	14177 Aug 23 09:00	23° $\Omega$ 28'45	
morning max el	14176 Sep 23 12:05	18° $\mathfrak{P}$ 39'44	27°53'49		14177 Sep 04 11:37	0° $\mathfrak{P}$	
	14176 Oct 03 02:07	0° $\mathfrak{L}$		morning max el	14177 Sep 05 22:35	1° $\mathfrak{P}$ 25'12	27°18'24
	14176 Oct 21 19:18	0° $\mathfrak{M}$			14177 Sep 27 05:35	0° $\mathfrak{L}$	
morning set	14176 Oct 27 19:55	11° $\mathfrak{M}$ 43'29		morning set	14177 Oct 11 08:23	25° $\mathfrak{L}$ 06'00	
asc. node	14176 Oct 27 13:01	11° $\mathfrak{M}$ 08'32			14177 Oct 13 19:39	0° $\mathfrak{M}$	
max. Earth dist.	14176 Nov 02 00:24	22° $\mathfrak{M}$ 35'38	1.31935 AU	asc. node	14177 Oct 14 09:41	1° $\mathfrak{M}$ 10'52	
				max. Earth dist.	14177 Oct 15 19:21	4° $\mathfrak{M}$ 02'58	1.33148 AU
superior conj	14176 Nov 04 10:54	27° $\mathfrak{M}$ 53'34	1°08'50				
minimum elong	14176 Nov 04 08:37	27° $\mathfrak{M}$ 41'03	1°09'19	superior conj	14177 Oct 19 14:57	12° $\mathfrak{M}$ 03'33	0°47'33
	14176 Nov 05 09:57	0° $\mathfrak{X}$		minimum elong	14177 Oct 19 12:52	11° $\mathfrak{M}$ 52'26	0°47'49
evening rise	14176 Nov 11 05:50	12° $\mathfrak{X}$ 46'14		evening rise	14177 Oct 26 16:40	27° $\mathfrak{M}$ 15'25	
	14176 Nov 19 19:08	0° $\mathfrak{Z}$			14177 Oct 27 23:46	0° $\mathfrak{X}$	
desc. node	14176 Nov 29 04:34	14° $\mathfrak{Z}$ 56'16			14177 Nov 14 20:27	0° $\mathfrak{Z}$	
evening max el	14176 Dec 05 15:36	22° $\mathfrak{Z}$ 22'29	24°01'21	desc. node	14177 Nov 16 01:44	1° $\mathfrak{Z}$ 19'53	
retrograde	14176 Dec 19 05:35	29° $\mathfrak{Z}$ 07'50		evening max el	14177 Nov 17 02:18	2° $\mathfrak{Z}$ 22'05	22°18'50
evening set	14176 Dec 24 03:03	28° $\mathfrak{Z}$ 15'37		retrograde	14177 Nov 29 20:50	8° $\mathfrak{Z}$ 41'41	
min. Earth dist.	14176 Dec 30 02:58	25° $\mathfrak{Z}$ 18'17	0.55585 AU	evening set	14177 Dec 03 09:42	8° $\mathfrak{Z}$ 14'11	
inferior conj	14177 Jan 01 03:15	24° $\mathfrak{Z}$ 05'30	-5°42'26	inferior conj	14177 Dec 11 23:45	4° $\mathfrak{Z}$ 19'31	-5°56'45
minimum elong	14177 Jan 01 09:13	23° $\mathfrak{Z}$ 56'30	5°40'41	minimum elong	14177 Dec 11 21:15	4° $\mathfrak{Z}$ 23'02	5°55'33
morning rise	14177 Jan 09 17:12	20° $\mathfrak{Z}$ 08'12		min. Earth dist.	14177 Dec 11 09:14	4° $\mathfrak{Z}$ 39'54	0.54629 AU
direct	14177 Jan 12 05:48	19° $\mathfrak{Z}$ 51'56		morning rise	14177 Dec 20 09:54	0° $\mathfrak{Z}$ 32'15	
morning max el	14177 Jan 22 16:14	24° $\mathfrak{Z}$ 53'11	20°01'58	direct	14177 Dec 23 18:10	0° $\mathfrak{Z}$ 07'09	
asc. node	14177 Jan 23 12:23	25° $\mathfrak{Z}$ 43'40		morning max el	14178 Jan 04 17:20	5° $\mathfrak{Z}$ 51'25	21°30'41
	14177 Jan 27 02:16	0° $\approx$		asc. node	14178 Jan 10 09:41	12° $\mathfrak{Z}$ 27'26	
morning set	14177 Feb 09 15:24	24° $\approx$ 00'09			14178 Jan 20 18:16	0° $\approx$	
	14177 Feb 12 13:46	0° $\mathfrak{H}$		morning set	14178 Jan 25 00:54	8° $\approx$ 43'31	
superior conj	14177 Feb 17 09:16	9° $\mathfrak{H}$ 45'51	1°01'14	superior conj	14178 Feb 01 06:06	23° $\approx$ 56'05	1°19'55
minimum elong	14177 Feb 17 11:58	9° $\mathfrak{H}$ 59'20	1°01'19	minimum elong	14178 Feb 01 08:28	24° $\approx$ 08'21	1°20'22
max. Earth dist.	14177 Feb 23 06:20	21° $\mathfrak{H}$ 10'40	1.36956 AU		14178 Feb 04 04:51	0° $\mathfrak{H}$	
desc. node	14177 Feb 25 05:23	24° $\mathfrak{H}$ 49'19		max. Earth dist.	14178 Feb 05 17:26	3° $\mathfrak{H}$ 04'03	1.34922 AU
evening rise	14177 Feb 27 00:21	28° $\mathfrak{H}$ 04'38		evening rise	14178 Feb 09 20:41	11° $\mathfrak{H}$ 06'39	
	14177 Feb 28 02:10	0° $\mathfrak{Y}$		desc. node	14178 Feb 12 01:54	15° $\mathfrak{H}$ 14'56	
	14177 Mar 18 23:07	0° $\mathfrak{B}$			14178 Feb 20 13:59	0° $\mathfrak{Y}$	
evening max el	14177 Apr 03 12:12	19° $\mathfrak{B}$ 04'19	25°36'55		14178 Mar 14 07:31	0° $\mathfrak{B}$	
retrograde	14177 Apr 15 21:30	26° $\mathfrak{B}$ 13'03		evening max el	14178 Mar 17 02:04	2° $\mathfrak{B}$ 51'07	26°38'54
asc. node	14177 Apr 21 08:51	24° $\mathfrak{B}$ 09'03		retrograde	14178 Mar 30 04:40	10° $\mathfrak{B}$ 14'47	
evening set	14177 Apr 21 20:44	23° $\mathfrak{B}$ 45'03		evening set	14178 Apr 05 14:07	7° $\mathfrak{B}$ 42'46	
min. Earth dist.	14177 Apr 26 03:32	19° $\mathfrak{B}$ 05'18	0.67682 AU	asc. node	14178 Apr 08 06:17	5° $\mathfrak{B}$ 10'15	
inferior conj	14177 Apr 27 14:09	17° $\mathfrak{B}$ 14'31	1°49'08	min. Earth dist.	14178 Apr 09 15:09	3° $\mathfrak{B}$ 37'39	0.66396 AU
minimum elong	14177 Apr 27 12:03	17° $\mathfrak{B}$ 21'15	1°47'46	inferior conj	14178 Apr 11 14:18	1° $\mathfrak{B}$ 17'21	1°01'40
morning rise	14177 May 03 03:52	11° $\mathfrak{B}$ 23'45		minimum elong	14178 Apr 11 12:48	1° $\mathfrak{B}$ 21'47	1°00'39
direct	14177 May 06 14:22	10° $\mathfrak{B}$ 15'59			14178 Apr 12 16:33	30° $\mathfrak{R}$ $\mathfrak{Y}$	
morning max el	14177 May 13 10:12	13° $\mathfrak{B}$ 58'07	18°59'57	morning rise	14178 Apr 17 12:36	25° $\mathfrak{Y}$ 37'54	
desc. node	14177 May 24 07:25	28° $\mathfrak{B}$ 05'29		direct	14178 Apr 20 12:46	24° $\mathfrak{Y}$ 47'35	
	14177 May 25 14:14	0° $\mathfrak{I}$		morning max el	14178 Apr 26 22:41	28° $\mathfrak{Y}$ 10'45	18°18'15
greatest brilliancy	14177 May 26 15:43	1° $\mathfrak{I}$ 35'38	-0.7m		14178 Apr 28 15:56	0° $\mathfrak{B}$	

desc. node	14178 May 11 04:11	18°♄02'17		morning max el	14179 Apr 10 15:17	12°♄21'33	17°53'34
morning set	14178 May 16 17:29	26°♄52'15			14179 Apr 23 01:14	0°♄	
	14178 May 18 16:39	0°♄		morning set	14179 Apr 28 01:44	8°♄19'30	
				desc. node	14179 Apr 28 00:51	8°♄15'53	
superior conj	14178 Jun 01 05:45	21°♄20'36	-2°03'05		14179 May 11 08:09	0°♄	
minimum elong	14178 May 31 22:31	20°♄52'19	2°03'42	superior conj	14179 May 11 21:52	0°♄54'42	-1°34'52
max. Earth dist.	14178 Jun 02 08:46	23°♄06'04	1.45886 AU	minimum elong	14179 May 11 13:03	0°♄19'34	1°34'47
	14178 Jun 06 18:56	0°♄		max. Earth dist.	14179 May 16 04:56	7°♄42'28	1.45450 AU
evening rise	14178 Jun 17 05:32	16°♄17'12		evening rise	14179 May 27 20:25	25°♄45'47	
	14178 Jun 26 00:59	0°♄			14179 May 30 14:57	0°♄	
greatest brilliancy	14178 Jun 27 14:46	2°♄24'51	-0.8m	greatest brilliancy	14179 Jun 11 11:39	17°♄46'03	-0.6m
asc. node	14178 Jul 05 04:27	13°♄24'51			14179 Jun 20 13:08	0°♄	
evening max el	14178 Jul 10 01:18	19°♄11'11	19°00'07	asc. node	14179 Jun 22 01:20	1°♄43'17	
retrograde	14178 Jul 16 20:11	22°♄55'20		evening max el	14179 Jun 23 06:46	3°♄00'20	19°52'21
evening set	14178 Jul 20 06:52	21°♄46'39		retrograde	14179 Jun 30 18:40	7°♄15'14	
inferior conj	14178 Jul 25 18:46	16°♄00'58	2°55'22	evening set	14179 Jul 04 15:01	5°♄49'29	
minimum elong	14178 Jul 25 20:23	15°♄55'47	2°54'19	inferior conj	14179 Jul 09 22:29	29°♄50'40	3°09'07
min. Earth dist.	14178 Jul 27 09:47	13°♄56'35	0.66543 AU	minimum elong	14179 Jul 09 23:08	29°♄48'28	3°08'06
morning rise	14178 Jul 31 09:12	9°♄36'10			14179 Jul 09 19:43	30°♄	
direct	14178 Aug 06 13:55	6°♄57'23		min. Earth dist.	14179 Jul 10 23:14	28°♄27'16	0.67824 AU
desc. node	14178 Aug 07 02:52	6°♄58'28		morning rise	14179 Jul 15 06:52	23°♄27'00	
morning max el	14178 Aug 19 09:47	14°♄35'25	26°15'46	direct	14179 Jul 21 00:54	20°♄55'34	
	14178 Sep 01 00:07	0°♄		desc. node	14179 Jul 25 00:17	21°♄54'59	
	14178 Sep 20 00:13	0°♄		morning max el	14179 Aug 01 20:32	28°♄00'32	24°55'07
morning set	14178 Sep 24 08:22	7°♄52'56			14179 Aug 03 17:53	0°♄	
max. Earth dist.	14178 Sep 28 04:33	15°♄12'23	1.34873 AU		14179 Aug 25 16:45	0°♄	
asc. node	14178 Oct 01 06:16	21°♄17'36		morning set	14179 Sep 06 15:54	19°♄55'05	
				max. Earth dist.	14179 Sep 10 05:31	26°♄21'00	1.37008 AU
superior conj	14178 Oct 03 11:56	25°♄50'33	0°20'48		14179 Sep 12 04:43	0°♄	
minimum elong	14178 Oct 03 10:47	25°♄44'41	0°20'57	superior conj	14179 Sep 16 22:47	9°♄07'09	-0°10'47
	14178 Oct 05 12:11	0°♄		minimum elong	14179 Sep 16 23:28	9°♄10'32	0°10'36
evening rise	14178 Oct 11 01:29	11°♄37'22		behind sun begin	14179 Sep 16 18:29	8°♄46'05	
	14178 Oct 20 13:42	0°♄		behind sun end	14179 Sep 17 04:28	9°♄35'02	
evening max el	14178 Oct 29 21:41	12°♄42'43	20°46'13	asc. node	14179 Sep 18 02:48	11°♄25'07	
desc. node	14178 Nov 02 23:00	16°♄02'05		evening rise	14179 Sep 25 06:02	25°♄46'11	
retrograde	14178 Nov 10 07:14	18°♄22'42			14179 Sep 27 08:43	0°♄	
evening set	14178 Nov 12 16:50	18°♄08'45		evening max el	14179 Oct 12 07:12	23°♄48'54	19°33'13
inferior conj	14178 Nov 21 15:04	14°♄14'56	-5°10'46	desc. node	14179 Oct 20 20:23	28°♄37'19	
minimum elong	14178 Nov 21 05:38	14°♄28'25	5°07'43	retrograde	14179 Oct 22 01:23	28°♄41'39	
min. Earth dist.	14178 Nov 22 15:08	13°♄40'28	0.54564 AU	evening set	14179 Oct 23 22:47	28°♄31'27	
morning rise	14178 Nov 29 18:31	10°♄20'05		inferior conj	14179 Nov 01 15:53	24°♄26'22	-3°38'09
direct	14178 Dec 04 01:54	9°♄40'21		minimum elong	14179 Nov 01 06:53	24°♄40'43	3°34'16
morning max el	14178 Dec 17 06:31	16°♄04'38	23°16'21	min. Earth dist.	14179 Nov 04 00:11	22°♄56'48	0.55427 AU
asc. node	14178 Dec 28 06:52	0°♄12'08		morning rise	14179 Nov 09 13:01	20°♄03'51	
	14178 Dec 28 03:50	0°♄		direct	14179 Nov 14 17:42	19°♄03'30	
morning set	14179 Jan 09 12:32	23°♄29'34		morning max el	14179 Nov 28 16:04	26°♄02'04	25°04'32
	14179 Jan 12 13:00	0°♄			14179 Dec 02 10:25	0°♄	
superior conj	14179 Jan 16 10:07	8°♄24'36	1°31'53	asc. node	14179 Dec 15 03:56	18°♄42'25	
minimum elong	14179 Jan 16 11:38	8°♄32'44	1°32'41		14179 Dec 21 02:18	0°♄	
max. Earth dist.	14179 Jan 19 11:55	14°♄57'32	1.33250 AU	morning set	14179 Dec 25 00:20	8°♄11'56	
evening rise	14179 Jan 24 06:00	24°♄40'34					
	14179 Jan 26 23:44	0°♄		superior conj	14179 Dec 31 18:42	23°♄03'06	1°37'30
desc. node	14179 Jan 29 22:29	5°♄29'39		minimum elong	14179 Dec 31 19:09	23°♄05'35	1°38'30
	14179 Feb 14 02:18	0°♄		max. Earth dist.	14180 Jan 02 13:30	26°♄58'00	1.32037 AU
evening max el	14179 Feb 27 15:25	16°♄21'49	27°20'16		14180 Jan 03 23:02	0°♄	
retrograde	14179 Mar 13 05:34	23°♄50'23		evening rise	14180 Jan 08 01:06	8°♄37'35	
evening set	14179 Mar 19 22:54	21°♄20'17		desc. node	14180 Jan 16 19:08	25°♄27'19	
min. Earth dist.	14179 Mar 23 19:27	17°♄47'24	0.64729 AU		14180 Jan 19 09:41	0°♄	
inferior conj	14179 Mar 26 06:41	15°♄06'40	0°02'21	evening max el	14180 Feb 10 02:33	29°♄23'30	27°34'18
minimum elong	14179 Mar 26 06:37	15°♄06'50	0°02'10		14180 Feb 10 18:05	0°♄	
transit middle	14179 Mar 26 06:37	15°♄06'50	0°02'10	retrograde	14180 Feb 23 23:25	6°♄49'15	
transit begin	14179 Mar 26 03:35	15°♄15'07		evening set	14180 Mar 01 20:33	4°♄28'25	
transit end	14179 Mar 26 09:39	14°♄58'35		min. Earth dist.	14180 Mar 05 14:40	1°♄23'11	0.62748 AU
asc. node	14179 Mar 26 03:44	15°♄14'41			14180 Mar 07 01:18	30°♄	
morning rise	14179 Apr 01 16:14	9°♄40'53		inferior conj	14180 Mar 08 12:18	28°♄34'09	-1°08'54
direct	14179 Apr 04 07:14	9°♄05'04					

minimum elong	14180 Mar 08 14:37	28° $\Upsilon$ 28'31	1°07'48	minimum elong	14181 Feb 19 09:12	11° $\Upsilon$ 19'23	2°27'42
asc. node	14180 Mar 12 01:13	25° $\Upsilon$ 23'28		morning rise	14181 Feb 26 17:37	6° $\Upsilon$ 40'26	
morning rise	14180 Mar 15 11:24	23° $\Upsilon$ 24'35		asc. node	14181 Feb 26 22:42	6° $\Upsilon$ 37'07	
direct	14180 Mar 17 18:41	22° $\Upsilon$ 59'48		direct	14181 Feb 28 19:30	6° $\Upsilon$ 22'59	
morning max el	14180 Mar 24 09:02	26° $\Upsilon$ 21'05	17°46'20	morning max el	14181 Mar 08 00:33	9° $\Upsilon$ 59'40	17°57'24
	14180 Mar 27 13:00	0° $\Upsilon$			14181 Mar 21 04:06	0° $\Upsilon$	
morning set	14180 Apr 09 10:42	20° $\Upsilon$ 56'44		morning set	14181 Mar 23 14:21	4° $\Upsilon$ 25'49	
desc. node	14180 Apr 13 21:26	28° $\Upsilon$ 40'34		desc. node	14181 Mar 31 17:58	19° $\Upsilon$ 12'18	
	14180 Apr 14 15:52	0° $\Upsilon$					
superior conj	14180 Apr 21 10:41	11° $\Upsilon$ 28'14	-0°57'04	superior conj	14181 Apr 02 23:30	23° $\Upsilon$ 08'01	-0°17'47
minimum elong	14180 Apr 21 05:06	11° $\Upsilon$ 05'01	0°56'53	minimum elong	14181 Apr 02 21:57	23° $\Upsilon$ 01'13	0°17'51
max. Earth dist.	14180 Apr 27 22:22	22° $\Upsilon$ 02'25	1.44315 AU	max. Earth dist.	14181 Apr 06 23:16	0° $\Upsilon$	
	14180 May 02 23:10	0° $\Upsilon$		evening rise	14181 Apr 10 11:36	5° $\Upsilon$ 52'44	1.42605 AU
evening rise	14180 May 06 08:07	5° $\Upsilon$ 14'03			14181 Apr 16 07:56	15° $\Upsilon$ 20'00	
	14180 May 22 23:57	0° $\Upsilon$			14181 Apr 25 20:54	0° $\Upsilon$	
evening max el	14180 Jun 05 06:16	16° $\Upsilon$ 50'10	20°58'29	evening max el	14181 May 18 08:33	0° $\Upsilon$	
asc. node	14180 Jun 07 22:21	19° $\Upsilon$ 14'29			14181 May 19 00:37	0° $\Upsilon$ 40'56	22°14'40
retrograde	14180 Jun 13 17:39	21° $\Upsilon$ 45'04		asc. node	14181 May 25 19:28	5° $\Upsilon$ 43'34	
evening set	14180 Jun 18 00:20	20° $\Upsilon$ 02'30		retrograde	14181 May 28 15:19	6° $\Upsilon$ 19'36	
inferior conj	14180 Jun 23 06:10	13° $\Upsilon$ 52'07	3°10'36	evening set	14181 Jun 02 09:05	4° $\Upsilon$ 21'12	
minimum elong	14180 Jun 23 05:49	13° $\Upsilon$ 53'20	3°09'33		14181 Jun 06 05:17	30° $\Upsilon$	
min. Earth dist.	14180 Jun 23 17:17	13° $\Upsilon$ 13'31	0.68638 AU	inferior conj	14181 Jun 07 15:43	28° $\Upsilon$ 01'11	3°01'11
morning rise	14180 Jun 28 11:03	7° $\Upsilon$ 32'47		minimum elong	14181 Jun 07 14:29	28° $\Upsilon$ 05'28	2°59'59
direct	14180 Jul 03 17:02	5° $\Upsilon$ 15'03		min. Earth dist.	14181 Jun 07 13:44	28° $\Upsilon$ 08'03	0.68980 AU
desc. node	14180 Jul 10 21:35	8° $\Upsilon$ 28'04		morning rise	14181 Jun 12 19:42	21° $\Upsilon$ 48'12	
morning max el	14180 Jul 14 07:12	11° $\Upsilon$ 34'00	23°26'11	direct	14181 Jun 17 13:05	19° $\Upsilon$ 48'34	
	14180 Jul 29 00:32	0° $\Upsilon$		morning max el	14181 Jun 26 20:09	25° $\Upsilon$ 14'57	21°58'04
	14180 Aug 17 11:45	0° $\Upsilon$		desc. node	14181 Jun 27 18:48	26° $\Upsilon$ 13'12	
morning set	14180 Aug 18 02:29	1° $\Upsilon$ 01'40			14181 Jul 01 02:55	0° $\Upsilon$	
max. Earth dist.	14180 Aug 22 03:22	7° $\Upsilon$ 55'19	1.39356 AU		14181 Jul 22 11:04	0° $\Upsilon$	
				morning set	14181 Jul 29 12:29	11° $\Upsilon$ 03'16	
superior conj	14180 Aug 29 19:46	21° $\Upsilon$ 44'42	-0°45'37	max. Earth dist.	14181 Aug 04 04:35	20° $\Upsilon$ 18'13	1.41661 AU
minimum elong	14180 Aug 29 23:07	22° $\Upsilon$ 00'18	0°45'18		14181 Aug 09 21:43	0° $\Upsilon$	
	14180 Sep 03 04:35	0° $\Upsilon$		superior conj	14181 Aug 11 22:27	3° $\Upsilon$ 32'38	-1°20'49
asc. node	14180 Sep 03 23:19	1° $\Upsilon$ 29'57		minimum elong	14181 Aug 12 04:38	3° $\Upsilon$ 59'50	1°20'32
evening rise	14180 Sep 08 03:30	9° $\Upsilon$ 34'40		asc. node	14181 Aug 21 19:53	21° $\Upsilon$ 27'54	
	14180 Sep 19 14:59	0° $\Upsilon$		evening rise	14181 Aug 22 14:14	22° $\Upsilon$ 52'46	
evening max el	14180 Sep 24 06:01	5° $\Upsilon$ 44'36	18°42'19		14181 Aug 26 11:16	0° $\Upsilon$	
retrograde	14180 Oct 02 12:25	9° $\Upsilon$ 54'29		evening max el	14181 Sep 07 14:06	18° $\Upsilon$ 20'39	18°12'31
evening set	14180 Oct 04 10:19	9° $\Upsilon$ 41'54		retrograde	14181 Sep 14 18:28	22° $\Upsilon$ 00'02	
desc. node	14180 Oct 06 17:52	8° $\Upsilon$ 55'36		evening set	14181 Sep 16 22:36	21° $\Upsilon$ 40'33	
inferior conj	14180 Oct 12 12:10	5° $\Upsilon$ 18'05	-1°50'07	desc. node	14181 Sep 23 15:24	17° $\Upsilon$ 27'08	
minimum elong	14180 Oct 12 07:39	5° $\Upsilon$ 26'27	1°47'47	inferior conj	14181 Sep 24 06:07	16° $\Upsilon$ 55'32	-0°11'32
min. Earth dist.	14180 Oct 15 14:54	3° $\Upsilon$ 00'27	0.57063 AU	minimum elong	14181 Sep 24 05:43	16° $\Upsilon$ 56'24	0°11'11
morning rise	14180 Oct 20 01:37	0° $\Upsilon$ 18'34		transit middle	14181 Sep 24 05:43	16° $\Upsilon$ 56'24	0°11'11
	14180 Oct 20 18:09	30° $\Upsilon$		transit begin	14181 Sep 24 03:14	17° $\Upsilon$ 01'45	
direct	14180 Oct 26 00:01	28° $\Upsilon$ 52'14		transit end	14181 Sep 24 08:11	16° $\Upsilon$ 51'03	
	14180 Oct 31 07:36	0° $\Upsilon$		min. Earth dist.	14181 Sep 27 13:03	14° $\Upsilon$ 06'08	0.59184 AU
morning max el	14180 Nov 09 05:53	6° $\Upsilon$ 17'42	26°36'22	morning rise	14181 Oct 01 09:26	11° $\Upsilon$ 21'28	
	14180 Nov 26 17:23	0° $\Upsilon$		direct	14181 Oct 07 19:54	9° $\Upsilon$ 28'02	
asc. node	14180 Dec 01 00:54	7° $\Upsilon$ 46'43		morning max el	14181 Oct 22 03:11	17° $\Upsilon$ 12'47	27°36'52
morning set	14180 Dec 08 10:38	22° $\Upsilon$ 46'15			14181 Nov 01 17:54	0° $\Upsilon$	
	14180 Dec 11 18:08	0° $\Upsilon$		asc. node	14181 Nov 17 21:46	27° $\Upsilon$ 15'21	
					14181 Nov 19 06:54	0° $\Upsilon$	
superior conj	14180 Dec 15 05:45	7° $\Upsilon$ 45'36	1°37'02	morning set	14181 Nov 22 17:38	7° $\Upsilon$ 07'10	
minimum elong	14180 Dec 15 05:08	7° $\Upsilon$ 42'09	1°38'04	max. Earth dist.	14181 Nov 29 04:17	21° $\Upsilon$ 13'00	1.31147 AU
max. Earth dist.	14180 Dec 15 20:04	9° $\Upsilon$ 05'24	1.31332 AU				
evening rise	14180 Dec 22 03:24	22° $\Upsilon$ 51'41		superior conj	14181 Nov 29 17:19	22° $\Upsilon$ 25'49	1°30'40
	14180 Dec 25 14:32	0° $\Upsilon$		minimum elong	14181 Nov 29 15:48	22° $\Upsilon$ 17'17	1°31'34
desc. node	14181 Jan 02 15:56	15° $\Upsilon$ 01'05			14181 Dec 03 02:45	0° $\Upsilon$	
	14181 Jan 12 08:23	0° $\Upsilon$		evening rise	14181 Dec 06 10:35	7° $\Upsilon$ 16'25	
evening max el	14181 Jan 22 09:17	11° $\Upsilon$ 44'32	27°15'30		14181 Dec 18 02:55	0° $\Upsilon$	
retrograde	14181 Feb 05 08:54	19° $\Upsilon$ 01'50		desc. node	14181 Dec 20 12:50	4° $\Upsilon$ 01'19	
evening set	14181 Feb 12 04:01	16° $\Upsilon$ 58'36		evening max el	14182 Jan 04 09:05	23° $\Upsilon$ 15'27	26°21'58
min. Earth dist.	14181 Feb 15 23:50	14° $\Upsilon$ 13'13	0.60578 AU		14182 Jan 15 08:28	0° $\Upsilon$	
inferior conj	14181 Feb 19 03:45	11° $\Upsilon$ 31'05	-2°30'15	retrograde	14182 Jan 18 08:09	0° $\Upsilon$ 21'28	

	14182 Jan 21 07:12	30° $\approx$		retrograde	14182 Dec 30 19:09	10° $\approx$ 48'21	
evening set	14182 Jan 24 17:33	28° $\approx$ 42'58		evening set	14183 Jan 05 09:06	9° $\approx$ 38'49	
min. Earth dist.	14182 Jan 28 22:38	26° $\approx$ 06'06	0.58404 AU	min. Earth dist.	14183 Jan 10 12:17	6° $\approx$ 54'44	0.56474 AU
inferior conj	14182 Feb 01 01:24	23° $\approx$ 47'36	-3°55'39	inferior conj	14183 Jan 13 02:26	5° $\approx$ 14'42	-5°11'36
minimum elong	14182 Feb 01 09:45	23° $\approx$ 32'04	3°52'15	minimum elong	14183 Jan 13 10:54	5° $\approx$ 01'03	5°08'53
morning rise	14182 Feb 09 05:00	19° $\approx$ 18'09		morning rise	14183 Jan 21 15:00	1° $\approx$ 07'04	
direct	14182 Feb 11 05:28	19° $\approx$ 04'18		direct	14183 Jan 23 20:43	0° $\approx$ 52'58	
asc. node	14182 Feb 13 20:09	19° $\approx$ 28'39		asc. node	14183 Jan 31 17:34	4° $\approx$ 01'30	
morning max el	14182 Feb 19 10:03	23° $\approx$ 06'34	18°28'22	morning max el	14183 Feb 02 09:26	5° $\approx$ 30'00	19°21'11
	14182 Feb 24 21:26	0° $\approx$			14183 Feb 17 21:10	0° $\approx$	
morning set	14182 Mar 07 07:10	18° $\approx$ 30'22		morning set	14183 Feb 19 08:50	2° $\approx$ 57'06	
	14182 Mar 13 07:31	0° $\approx$					
				superior conj	14183 Feb 27 12:36	19° $\approx$ 09'29	0°47'20
superior conj	14182 Mar 16 09:40	5° $\approx$ 46'09	0°17'50	minimum elong	14183 Feb 27 15:07	19° $\approx$ 21'42	0°47'15
minimum elong	14182 Mar 16 10:55	5° $\approx$ 51'53	0°17'37	desc. node	14183 Mar 05 10:58	0° $\approx$ 21'43	
desc. node	14182 Mar 18 14:29	9° $\approx$ 47'23			14183 Mar 05 06:13	0° $\approx$	
max. Earth dist.	14182 Mar 23 20:48	19° $\approx$ 05'14	1.40501 AU	max. Earth dist.	14183 Mar 06 03:24	1° $\approx$ 36'45	1.38235 AU
evening rise	14182 Mar 28 03:49	26° $\approx$ 20'24		evening rise	14183 Mar 09 20:36	8° $\approx$ 13'58	
	14182 Mar 30 09:22	0° $\approx$			14183 Mar 23 06:15	0° $\approx$	
	14182 Apr 19 12:58	0° $\approx$		evening max el	14183 Apr 14 05:14	28° $\approx$ 27'21	24°54'48
evening max el	14182 May 01 15:40	14° $\approx$ 33'59	23°35'34		14183 Apr 15 20:18	0° $\approx$	
retrograde	14182 May 12 10:20	20° $\approx$ 54'03		retrograde	14183 Apr 26 01:33	5° $\approx$ 21'25	
asc. node	14182 May 12 16:42	20° $\approx$ 53'44		asc. node	14183 Apr 29 14:02	4° $\approx$ 28'05	
evening set	14182 May 17 15:42	18° $\approx$ 41'33		evening set	14183 May 01 18:33	2° $\approx$ 57'42	
min. Earth dist.	14182 May 22 10:25	13° $\approx$ 05'10	0.68844 AU		14183 May 04 14:34	30° $\approx$	
inferior conj	14182 May 23 01:11	12° $\approx$ 14'31	2°41'25	min. Earth dist.	14183 May 06 05:11	27° $\approx$ 57'46	0.68240 AU
minimum elong	14182 May 22 23:18	12° $\approx$ 20'56	2°40'04	inferior conj	14183 May 07 08:39	26° $\approx$ 27'09	2°11'18
morning rise	14182 May 28 06:53	6° $\approx$ 09'20		minimum elong	14183 May 07 06:29	26° $\approx$ 34'17	2°09'53
direct	14182 Jun 01 11:48	4° $\approx$ 29'59		morning rise	14183 May 12 18:42	20° $\approx$ 30'58	
morning max el	14182 Jun 09 14:43	9° $\approx$ 07'10	20°38'14	direct	14183 May 16 11:39	19° $\approx$ 12'08	
desc. node	14182 Jun 14 15:53	14° $\approx$ 51'30		morning max el	14183 May 23 16:40	23° $\approx$ 10'32	19°31'24
	14182 Jun 25 15:25	0° $\approx$			14183 May 29 12:12	0° $\approx$	
morning set	14182 Jul 09 00:01	20° $\approx$ 08'00		desc. node	14183 Jun 01 12:50	4° $\approx$ 07'56	
	14182 Jul 15 06:49	0° $\approx$		greatest brilliancy	14183 Jun 05 07:48	9° $\approx$ 35'24	-0.7m
max. Earth dist.	14182 Jul 17 12:58	3° $\approx$ 36'44	1.43639 AU	morning set	14183 Jun 18 02:10	28° $\approx$ 52'40	
					14183 Jun 18 19:41	0° $\approx$	
superior conj	14182 Jul 24 02:52	14° $\approx$ 23'07	-1°51'25	max. Earth dist.	14183 Jun 30 03:34	17° $\approx$ 37'27	1.45062 AU
minimum elong	14182 Jul 24 10:14	14° $\approx$ 53'47	1°51'35				
	14182 Aug 02 06:23	0° $\approx$		superior conj	14183 Jul 04 07:42	24° $\approx$ 14'41	-2°10'36
evening rise	14182 Aug 05 09:47	5° $\approx$ 30'06		minimum elong	14183 Jul 04 11:46	24° $\approx$ 30'56	2°11'29
asc. node	14182 Aug 08 16:30	11° $\approx$ 15'23			14183 Jul 07 21:39	0° $\approx$	
	14182 Aug 20 18:37	0° $\approx$		evening rise	14183 Jul 18 08:53	17° $\approx$ 13'48	
evening max el	14182 Aug 22 03:15	1° $\approx$ 27'16	18°02'22		14183 Jul 26 01:32	0° $\approx$	
retrograde	14182 Aug 28 16:37	4° $\approx$ 50'33		asc. node	14183 Jul 26 13:11	0° $\approx$ 47'12	
evening set	14182 Aug 31 04:40	4° $\approx$ 20'31		evening max el	14183 Aug 05 17:44	14° $\approx$ 55'03	18°10'53
	14182 Sep 06 01:29	30° $\approx$		retrograde	14183 Aug 12 02:18	18° $\approx$ 16'14	
inferior conj	14182 Sep 06 19:28	29° $\approx$ 15'38	1°06'45	evening set	14183 Aug 14 22:45	17° $\approx$ 32'49	
minimum elong	14182 Sep 06 21:18	29° $\approx$ 11'04	1°05'58	inferior conj	14183 Aug 21 00:15	12° $\approx$ 10'35	2°03'27
min. Earth dist.	14182 Sep 09 20:21	26° $\approx$ 15'30	0.61477 AU	minimum elong	14183 Aug 21 02:42	12° $\approx$ 03'42	2°02'19
desc. node	14182 Sep 10 12:57	25° $\approx$ 36'53		min. Earth dist.	14183 Aug 23 13:32	9° $\approx$ 19'55	0.63676 AU
morning rise	14182 Sep 13 11:17	23° $\approx$ 15'23		morning rise	14183 Aug 27 04:52	5° $\approx$ 54'10	
direct	14182 Sep 20 03:06	20° $\approx$ 58'42		desc. node	14183 Aug 28 10:28	5° $\approx$ 02'12	
morning max el	14182 Oct 04 07:44	28° $\approx$ 55'47	27°58'47	direct	14183 Sep 02 19:58	3° $\approx$ 21'30	
	14182 Oct 05 09:01	0° $\approx$		morning max el	14183 Sep 16 17:04	11° $\approx$ 22'11	27°42'44
	14182 Oct 26 16:09	0° $\approx$			14183 Oct 01 11:24	0° $\approx$	
asc. node	14182 Nov 04 18:33	17° $\approx$ 01'21			14183 Oct 19 02:36	0° $\approx$	
morning set	14182 Nov 06 19:21	21° $\approx$ 09'58		morning set	14183 Oct 21 13:27	4° $\approx$ 49'19	
	14182 Nov 10 23:17	0° $\approx$		asc. node	14183 Oct 22 15:15	6° $\approx$ 59'12	
max. Earth dist.	14182 Nov 12 10:24	3° $\approx$ 11'36	1.31494 AU	max. Earth dist.	14183 Oct 26 10:30	14° $\approx$ 52'18	1.32382 AU
superior conj	14182 Nov 14 03:32	6° $\approx$ 58'23	1°18'28	superior conj	14183 Oct 29 10:28	21° $\approx$ 18'12	1°00'30
minimum elong	14182 Nov 14 01:24	6° $\approx$ 46'34	1°19'08	minimum elong	14183 Oct 29 08:11	21° $\approx$ 05'50	1°00'53
evening rise	14182 Nov 20 20:38	21° $\approx$ 46'36			14183 Nov 02 10:07	0° $\approx$	
	14182 Nov 24 18:26	0° $\approx$		evening rise	14183 Nov 05 07:43	6° $\approx$ 17'34	
desc. node	14182 Dec 07 09:51	22° $\approx$ 15'15			14183 Nov 17 16:08	0° $\approx$	
	14182 Dec 13 07:39	0° $\approx$		desc. node	14183 Nov 24 06:58	9° $\approx$ 25'44	
evening max el	14182 Dec 17 00:22	3° $\approx$ 54'22	24°58'15	evening max el	14183 Nov 28 10:09	13° $\approx$ 58'04	23°17'29

retrograde	14183 Dec 11 17:32	20° $\text{♁}$ 34'51			14184 Nov 19 13:20	0° $\text{♁}$	
evening set	14183 Dec 16 01:35	19° $\text{♁}$ 54'01		retrograde	14184 Nov 21 05:48	0° $\text{♁}$ 06'46	
min. Earth dist.	14183 Dec 22 20:08	16° $\text{♁}$ 43'15	0.55072 AU		14184 Nov 22 22:54	30° $\text{♁}$	
inferior conj	14183 Dec 24 07:34	15° $\text{♁}$ 51'56	-5°55'33	evening set	14184 Nov 24 05:14	29° $\text{♁}$ 46'40	
minimum elong	14183 Dec 24 10:23	15° $\text{♁}$ 47'51	5°54'20	inferior conj	14184 Dec 03 00:05	25° $\text{♁}$ 53'55	-5°44'30
morning rise	14184 Jan 01 20:47	12° $\text{♁}$ 01'00		minimum elong	14184 Dec 02 17:54	26° $\text{♁}$ 02'35	5°42'42
direct	14184 Jan 04 16:44	11° $\text{♁}$ 41'52		min. Earth dist.	14184 Dec 03 02:06	25° $\text{♁}$ 51'06	0.54477 AU
morning max el	14184 Jan 15 19:12	17° $\text{♁}$ 00'58	20°37'11	morning rise	14184 Dec 11 07:20	22° $\text{♁}$ 05'42	
asc. node	14184 Jan 18 14:54	20° $\text{♁}$ 02'51		direct	14184 Dec 15 01:08	21° $\text{♁}$ 35'12	
	14184 Jan 25 11:35	0° $\text{♁}$		morning max el	14184 Dec 27 14:39	27° $\text{♁}$ 37'52	22°14'16
morning set	14184 Feb 03 16:13	17° $\text{♁}$ 36'52			14184 Dec 29 21:57	0° $\text{♁}$	
	14184 Feb 09 15:37	0° $\text{♁}$		asc. node	14185 Jan 04 12:07	7° $\text{♁}$ 14'11	
					14185 Jan 16 23:53	0° $\text{♁}$	
superior conj	14184 Feb 11 04:01	3° $\text{♁}$ 06'15	1°09'59	morning set	14185 Jan 18 02:51	2° $\text{♁}$ 21'35	
minimum elong	14184 Feb 11 06:39	3° $\text{♁}$ 19'40	1°10'12				
max. Earth dist.	14184 Feb 16 11:16	13° $\text{♁}$ 37'36	1.36051 AU	superior conj	14185 Jan 25 04:15	17° $\text{♁}$ 25'07	1°25'47
evening rise	14184 Feb 20 07:54	20° $\text{♁}$ 53'59		minimum elong	14185 Jan 25 06:18	17° $\text{♁}$ 35'54	1°26'23
desc. node	14184 Feb 20 07:29	20° $\text{♁}$ 52'01		max. Earth dist.	14185 Jan 29 00:55	25° $\text{♁}$ 27'19	1.34154 AU
	14184 Feb 25 10:31	0° $\text{♁}$			14185 Jan 31 07:03	0° $\text{♁}$	
	14184 Mar 16 04:30	0° $\text{♁}$		evening rise	14185 Feb 02 10:10	4° $\text{♁}$ 10'27	
evening max el	14184 Mar 26 18:42	12° $\text{♁}$ 18'01	26°05'10	desc. node	14185 Feb 06 04:02	11° $\text{♁}$ 13'31	
retrograde	14184 Apr 08 12:04	19° $\text{♁}$ 35'01			14185 Feb 17 06:11	0° $\text{♁}$	
evening set	14184 Apr 14 15:56	17° $\text{♁}$ 04'18		evening max el	14185 Mar 09 08:23	25° $\text{♁}$ 58'58	26°59'25
asc. node	14184 Apr 15 11:25	16° $\text{♁}$ 21'25			14185 Mar 14 01:27	0° $\text{♁}$	
min. Earth dist.	14184 Apr 18 20:01	12° $\text{♁}$ 39'43	0.67190 AU	retrograde	14185 Mar 22 16:56	3° $\text{♁}$ 26'41	
inferior conj	14184 Apr 20 12:06	10° $\text{♁}$ 35'03	1°30'23	evening set	14185 Mar 29 05:58	0° $\text{♁}$ 54'37	
minimum elong	14184 Apr 20 10:10	10° $\text{♁}$ 41'03	1°29'08		14185 Mar 30 07:54	30° $\text{♁}$	
morning rise	14184 Apr 26 05:11	4° $\text{♁}$ 49'06		min. Earth dist.	14185 Apr 02 04:52	27° $\text{♁}$ 03'28	0.65727 AU
direct	14184 Apr 29 11:04	3° $\text{♁}$ 49'15		asc. node	14185 Apr 02 08:51	26° $\text{♁}$ 52'16	
morning max el	14184 May 06 01:48	7° $\text{♁}$ 21'46	18°40'06	inferior conj	14185 Apr 04 09:17	24° $\text{♁}$ 32'59	0°37'59
desc. node	14184 May 18 09:39	23° $\text{♁}$ 52'15		minimum elong	14185 Apr 04 08:17	24° $\text{♁}$ 35'51	0°37'16
	14184 May 22 09:03	0° $\text{♁}$		morning rise	14185 Apr 10 12:04	18° $\text{♁}$ 59'01	
morning set	14184 May 27 15:59	8° $\text{♁}$ 15'10		direct	14185 Apr 13 08:03	18° $\text{♁}$ 15'25	
	14184 Jun 10 14:20	0° $\text{♁}$		morning max el	14185 Apr 19 16:22	21° $\text{♁}$ 34'41	18°05'35
max. Earth dist.	14184 Jun 11 21:52	2° $\text{♁}$ 03'06	1.45797 AU		14185 Apr 26 08:54	0° $\text{♁}$	
				desc. node	14185 May 05 06:22	13° $\text{♁}$ 56'56	
superior conj	14184 Jun 12 19:13	3° $\text{♁}$ 26'29	-2°11'42	morning set	14185 May 08 08:02	18° $\text{♁}$ 55'21	
minimum elong	14184 Jun 12 15:44	3° $\text{♁}$ 12'52	2°12'40		14185 May 15 04:57	0° $\text{♁}$	
evening rise	14184 Jun 28 07:34	27° $\text{♁}$ 55'14					
	14184 Jun 29 14:51	0° $\text{♁}$		superior conj	14185 May 23 04:43	12° $\text{♁}$ 39'54	-1°52'51
greatest brilliancy	14184 Jul 05 09:43	9° $\text{♁}$ 12'47	-0.9m	minimum elong	14185 May 22 20:00	12° $\text{♁}$ 05'38	1°53'08
asc. node	14184 Jul 12 09:55	19° $\text{♁}$ 57'09		max. Earth dist.	14185 May 25 17:47	16° $\text{♁}$ 39'07	1.45789 AU
evening max el	14184 Jul 19 06:30	28° $\text{♁}$ 36'02	18°37'17		14185 Jun 03 07:48	0° $\text{♁}$	
	14184 Jul 20 19:43	0° $\text{♁}$		evening rise	14185 Jun 08 07:18	7° $\text{♁}$ 42'11	
retrograde	14184 Jul 25 19:20	2° $\text{♁}$ 08'21		greatest brilliancy	14185 Jun 20 18:25	26° $\text{♁}$ 45'21	-0.7m
evening set	14184 Jul 29 00:36	1° $\text{♁}$ 09'24			14185 Jun 22 23:14	0° $\text{♁}$	
	14184 Jul 30 14:12	30° $\text{♁}$		asc. node	14185 Jun 29 06:46	8° $\text{♁}$ 37'32	
inferior conj	14184 Aug 03 16:29	25° $\text{♁}$ 31'57	2°41'05	evening max el	14185 Jul 02 15:10	12° $\text{♁}$ 24'09	19°20'33
minimum elong	14184 Aug 03 18:34	25° $\text{♁}$ 25'35	2°39'59	retrograde	14185 Jul 09 16:30	16° $\text{♁}$ 20'02	
min. Earth dist.	14184 Aug 05 15:54	23° $\text{♁}$ 07'00	0.65603 AU	evening set	14185 Jul 13 07:10	15° $\text{♁}$ 04'18	
morning rise	14184 Aug 09 11:27	19° $\text{♁}$ 08'09		inferior conj	14185 Jul 18 16:50	9° $\text{♁}$ 13'07	3°02'46
desc. node	14184 Aug 14 07:58	16° $\text{♁}$ 37'27		minimum elong	14185 Jul 18 18:03	9° $\text{♁}$ 09'05	3°01'46
direct	14184 Aug 15 21:01	16° $\text{♁}$ 28'40		min. Earth dist.	14185 Jul 20 01:50	7° $\text{♁}$ 25'07	0.67144 AU
morning max el	14184 Aug 29 04:13	24° $\text{♁}$ 20'02	26°54'33	morning rise	14185 Jul 24 04:23	2° $\text{♁}$ 48'15	
	14184 Sep 03 06:48	0° $\text{♁}$		direct	14185 Jul 30 04:54	0° $\text{♁}$ 11'21	
	14184 Sep 23 21:17	0° $\text{♁}$		desc. node	14185 Aug 01 05:23	0° $\text{♁}$ 26'42	
morning set	14184 Oct 03 21:01	17° $\text{♁}$ 57'47		morning max el	14185 Aug 11 15:09	7° $\text{♁}$ 37'31	25°42'59
max. Earth dist.	14184 Oct 08 01:16	26° $\text{♁}$ 10'24	1.33816 AU		14185 Aug 29 02:29	0° $\text{♁}$	
asc. node	14184 Oct 08 11:51	27° $\text{♁}$ 03'47			14185 Sep 16 08:34	0° $\text{♁}$	
	14184 Oct 09 22:25	0° $\text{♁}$		morning set	14185 Sep 16 14:32	0° $\text{♁}$ 27'09	
				max. Earth dist.	14185 Sep 20 06:09	7° $\text{♁}$ 15'01	1.35739 AU
superior conj	14184 Oct 12 11:47	5° $\text{♁}$ 18'55	0°36'51	asc. node	14185 Sep 25 08:25	17° $\text{♁}$ 11'34	
minimum elong	14184 Oct 12 10:00	5° $\text{♁}$ 09'32	0°37'02				
evening rise	14184 Oct 19 17:54	20° $\text{♁}$ 43'55		superior conj	14185 Sep 26 04:53	18° $\text{♁}$ 54'19	0°07'57
	14184 Oct 24 05:59	0° $\text{♁}$		minimum elong	14185 Sep 26 04:24	18° $\text{♁}$ 51'54	0°08'05
evening max el	14184 Nov 08 23:22	24° $\text{♁}$ 01'55	21°37'30	behind sun begin	14185 Sep 25 23:00	18° $\text{♁}$ 24'43	
desc. node	14184 Nov 10 04:12	25° $\text{♁}$ 09'29		behind sun end	14185 Sep 26 09:48	19° $\text{♁}$ 19'07	

	14185 Oct 01 14:53	0°♍		evening rise	14186 Sep 18 03:05	19°♑01'51	
evening rise	14185 Oct 04 01:12	5°♍00'59			14186 Sep 23 19:13	0°♍	
	14185 Oct 18 00:52	0°♊		evening max el	14186 Oct 04 16:14	16°♍08'24	19°08'50
evening max el	14185 Oct 22 00:41	4°♊40'54	20°12'32	retrograde	14186 Oct 13 17:56	20°♍41'28	
desc. node	14185 Oct 28 01:31	9°♊00'31		desc. node	14186 Oct 14 22:56	20°♍36'54	
retrograde	14185 Nov 01 17:30	10°♊00'19		evening set	14186 Oct 15 14:41	20°♍30'44	
evening set	14185 Nov 03 19:59	9°♊48'56		inferior conj	14186 Oct 24 02:03	16°♍18'04	-2°52'21
inferior conj	14185 Nov 12 17:46	5°♊52'03	-4°35'25	minimum elong	14186 Oct 23 18:47	16°♍30'23	2°48'55
minimum elong	14185 Nov 12 07:40	6°♊07'02	4°31'40	min. Earth dist.	14186 Oct 26 20:01	14°♍26'50	0.56051 AU
min. Earth dist.	14185 Nov 14 09:10	4°♊53'35	0.54828 AU	morning rise	14186 Oct 31 20:16	11°♍40'37	
morning rise	14185 Nov 20 18:30	1°♊47'18		direct	14186 Nov 06 09:15	10°♍29'43	
direct	14185 Nov 25 11:35	0°♊59'11		morning max el	14186 Nov 20 11:22	17°♍39'41	25°46'42
morning max el	14185 Dec 09 00:57	7°♊39'14	24°03'04		14186 Nov 30 16:01	0°♊	
asc. node	14185 Dec 22 09:15	25°♊19'34		asc. node	14186 Dec 09 06:17	14°♊05'36	
	14185 Dec 25 01:21	0°♊			14186 Dec 17 06:25	0°♊	
morning set	14186 Jan 02 14:44	17°♊05'56		morning set	14186 Dec 18 02:08	1°♊45'27	
	14186 Jan 08 12:50	0°♊					
superior conj	14186 Jan 09 10:28	1°♊58'06	1°35'02	superior conj	14186 Dec 24 20:21	16°♊38'50	1°38'02
minimum elong	14186 Jan 09 11:32	2°♊03'56	1°35'55	minimum elong	14186 Dec 24 20:20	16°♊38'45	1°39'04
max. Earth dist.	14186 Jan 11 22:29	7°♊22'21	1.32677 AU	max. Earth dist.	14186 Dec 26 02:48	19°♊27'25	1.31677 AU
evening rise	14186 Jan 17 00:00	17°♊54'50			14186 Dec 30 23:37	0°♊	
	14186 Jan 23 06:46	0°♋		evening rise	14186 Dec 31 22:30	2°♊00'00	
desc. node	14186 Jan 24 00:40	1°♋21'29		desc. node	14187 Jan 10 21:24	21°♊10'09	
	14186 Feb 11 14:14	0°♑			14187 Jan 16 04:01	0°♋	
evening max el	14186 Feb 19 21:14	9°♑19'11	27°30'05	evening max el	14187 Feb 02 07:03	22°♋05'50	27°30'37
retrograde	14186 Mar 05 14:58	16°♑47'07		retrograde	14187 Feb 16 05:11	29°♋27'34	
evening set	14186 Mar 12 10:20	14°♑20'23		evening set	14187 Feb 23 02:23	27°♋13'27	
min. Earth dist.	14186 Mar 16 05:39	10°♑59'39	0.63912 AU	min. Earth dist.	14187 Feb 26 20:40	24°♋17'50	0.61838 AU
inferior conj	14186 Mar 18 21:29	8°♑13'57	-0°26'28	inferior conj	14187 Mar 01 21:35	21°♋30'02	-1°42'21
minimum elong	14186 Mar 18 22:18	8°♑11'48	0°26'10	minimum elong	14187 Mar 02 01:09	21°♋21'46	1°40'38
asc. node	14186 Mar 20 06:19	6°♑49'58		asc. node	14187 Mar 07 03:48	17°♋20'36	
morning rise	14186 Mar 25 12:31	2°♑54'24		morning rise	14187 Mar 09 02:52	16°♋28'00	
direct	14186 Mar 28 00:01	2°♑23'41		direct	14187 Mar 11 07:39	16°♋06'38	
morning max el	14186 Apr 03 09:46	5°♑41'06	17°48'17	morning max el	14187 Mar 18 03:00	19°♋32'59	17°48'47
	14186 Apr 19 14:40	0°♌			14187 Mar 25 20:20	0°♑	
morning set	14186 Apr 20 03:34	0°♌54'46		morning set	14187 Apr 02 21:20	13°♑56'58	
desc. node	14186 Apr 22 03:00	4°♌15'44		desc. node	14187 Apr 08 23:35	24°♑44'10	
					14187 Apr 12 00:28	0°♌	
superior conj	14186 May 03 04:39	22°♌36'35	-1°19'27	superior conj	14187 Apr 14 03:49	3°♌38'59	-0°40'13
minimum elong	14186 May 02 20:51	22°♌05'03	1°19'16	minimum elong	14187 Apr 14 00:01	3°♌22'52	0°40'07
	14186 May 07 19:20	0°♍		max. Earth dist.	14187 Apr 21 05:39	15°♌22'15	1.43651 AU
max. Earth dist.	14186 May 08 13:08	1°♍10'34	1.45049 AU	evening rise	14187 Apr 28 10:19	26°♌47'11	
evening rise	14186 May 18 18:48	17°♍05'34			14187 Apr 30 12:09	0°♍	
	14186 May 27 07:35	0°♎			14187 May 21 04:27	0°♎	
evening max el	14186 Jun 15 18:14	26°♎14'18	20°19'02	evening max el	14187 May 29 15:28	10°♎04'51	21°29'51
asc. node	14186 Jun 16 03:42	26°♎37'39		asc. node	14187 Jun 03 00:46	13°♎44'46	
	14186 Jun 20 15:50	0°♏		retrograde	14187 Jun 07 13:55	15°♎17'48	
retrograde	14186 Jun 23 15:18	0°♏44'50		evening set	14187 Jun 12 01:22	13°♎28'05	
	14186 Jun 26 10:43	30°♏♎		inferior conj	14187 Jun 17 07:15	7°♎13'17	3°07'54
evening set	14186 Jun 27 16:02	29°♎11'49		minimum elong	14187 Jun 17 06:31	7°♎15'53	3°06'47
inferior conj	14186 Jul 02 22:31	23°♎08'08	3°11'08	min. Earth dist.	14187 Jun 17 12:40	6°♎54'24	0.68849 AU
minimum elong	14186 Jul 02 22:44	23°♎07'22	3°10'07	morning rise	14187 Jun 22 11:28	0°♎56'42	
min. Earth dist.	14186 Jul 03 17:25	22°♎03'29	0.68235 AU		14187 Jun 23 16:56	30°♏♍	
morning rise	14186 Jul 08 05:07	16°♎46'13		direct	14187 Jun 27 12:07	28°♍46'28	
direct	14186 Jul 13 18:15	14°♎19'50			14187 Jul 01 16:16	0°♎	
desc. node	14186 Jul 19 02:46	16°♎07'30		desc. node	14187 Jul 06 00:03	3°♎14'04	
morning max el	14186 Jul 25 01:29	21°♎05'45	24°17'40	morning max el	14187 Jul 07 12:53	4°♎42'39	22°48'07
	14186 Aug 01 18:00	0°♏			14187 Jul 26 23:03	0°♏	
	14186 Aug 22 07:47	0°♐		morning set	14187 Aug 10 14:01	22°♏45'39	
morning set	14186 Aug 29 13:38	12°♐06'22			14187 Aug 14 22:00	0°♐	
max. Earth dist.	14186 Sep 02 04:59	18°♐30'58	1.38003 AU	max. Earth dist.	14187 Aug 15 04:13	0°♐26'25	1.40369 AU
	14186 Sep 08 10:09	0°♑					
superior conj	14186 Sep 09 10:20	1°♑55'26	-0°25'18	superior conj	14187 Aug 23 00:05	14°♐12'52	-1°00'45
minimum elong	14186 Sep 09 12:04	2°♑03'46	0°25'03	minimum elong	14187 Aug 23 04:42	14°♐33'48	1°00'24
asc. node	14186 Sep 12 04:57	7°♑18'20		asc. node	14187 Aug 30 01:31	27°♐20'38	
					14187 Aug 31 11:06	0°♑	

evening rise	14187 Sep 01 20:31	2°♄38'45		minimum elong	14188 Aug 04 00:47	26°♄07'23	1°34'35
evening max el	14187 Sep 17 19:26	28°♄21'46	18°27'02		14188 Aug 06 06:28	0°♄	
	14187 Sep 19 15:44	0°♄		evening rise	14188 Aug 15 01:28	15°♄41'31	
retrograde	14187 Sep 25 13:30	2°♄17'21		asc. node	14188 Aug 15 22:06	17°♄14'53	
evening set	14187 Sep 27 13:37	2°♄02'20			14188 Aug 23 03:50	0°♄	
desc. node	14187 Oct 01 20:27	0°♄02'37		evening max el	14188 Aug 31 06:09	11°♄12'14	18°05'50
	14187 Oct 01 22:03	30°♄		retrograde	14188 Sep 07 03:03	14°♄43'19	
inferior conj	14187 Oct 05 07:38	27°♄29'06	-1°06'08	evening set	14188 Sep 09 10:17	14°♄19'55	
minimum elong	14187 Oct 05 05:04	27°♄34'12	1°04'43	inferior conj	14188 Sep 16 10:22	9°♄26'19	0°24'21
min. Earth dist.	14187 Oct 08 13:32	24°♄55'43	0.57925 AU	minimum elong	14188 Sep 16 11:09	9°♄24'31	0°24'06
morning rise	14187 Oct 12 17:02	22°♄13'57		desc. node	14188 Sep 17 17:59	8°♄13'04	
direct	14187 Oct 18 21:06	20°♄36'17		min. Earth dist.	14188 Sep 19 15:44	6°♄29'26	0.60151 AU
morning max el	14187 Nov 02 04:26	28°♄10'37	27°06'44	morning rise	14188 Sep 23 08:49	3°♄39'31	
	14187 Nov 03 23:37	0°♄		direct	14188 Sep 29 22:14	1°♄35'20	
	14187 Nov 24 08:41	0°♄		morning max el	14188 Oct 14 05:17	9°♄27'15	27°51'02
asc. node	14187 Nov 26 03:13	3°♄21'11			14188 Oct 30 01:47	0°♄	
morning set	14187 Dec 02 11:15	16°♄14'38		asc. node	14188 Nov 12 00:03	22°♄58'09	
	14187 Dec 08 17:24	0°♄			14188 Nov 15 10:46	0°♄	
				morning set	14188 Nov 15 16:17	0°♄28'57	
superior conj	14187 Dec 09 07:49	1°♄20'41	1°35'02	max. Earth dist.	14188 Nov 21 18:23	13°♄41'16	1.31223 AU
minimum elong	14187 Dec 09 06:48	1°♄14'55	1°36'03				
max. Earth dist.	14187 Dec 09 10:40	1°♄36'32	1.31187 AU	superior conj	14188 Nov 22 19:04	15°♄58'37	1°26'12
evening rise	14187 Dec 16 03:07	16°♄18'53		minimum elong	14188 Nov 22 17:14	15°♄48'24	1°27'01
	14187 Dec 22 21:28	0°♄		evening rise	14188 Nov 29 11:44	0°♄46'31	
desc. node	14187 Dec 28 18:14	10°♄30'58			14188 Nov 29 03:08	0°♄	
	14188 Jan 11 12:45	0°♄		desc. node	14188 Dec 14 15:11	29°♄13'24	
evening max el	14188 Jan 15 10:57	4°♄05'34	26°56'51		14188 Dec 15 03:14	0°♄	
retrograde	14188 Jan 29 10:24	11°♄18'22		evening max el	14188 Dec 27 06:53	15°♄12'51	25°49'25
evening set	14188 Feb 05 02:42	9°♄24'31		retrograde	14189 Jan 10 05:02	22°♄14'55	
min. Earth dist.	14188 Feb 09 01:05	6°♄44'47	0.59640 AU	evening set	14189 Jan 16 07:22	20°♄48'17	
inferior conj	14188 Feb 12 05:52	4°♄10'31	-3°06'34	min. Earth dist.	14189 Jan 20 19:46	18°♄10'26	0.57534 AU
minimum elong	14188 Feb 12 12:41	3°♄56'45	3°03'31	inferior conj	14189 Jan 23 18:55	16°♄06'22	-4°30'14
	14188 Feb 18 13:09	30°♄		minimum elong	14189 Jan 24 03:52	15°♄50'43	4°26'53
morning rise	14188 Feb 20 01:55	29°♄29'00		morning rise	14189 Feb 01 03:14	11°♄46'40	
direct	14188 Feb 22 02:39	29°♄13'30		direct	14189 Feb 03 04:45	11°♄33'20	
asc. node	14188 Feb 22 01:17	29°♄13'30		asc. node	14189 Feb 07 22:42	12°♄48'35	
	14188 Feb 25 13:03	0°♄		morning max el	14189 Feb 11 22:16	15°♄49'27	18°48'03
morning max el	14188 Feb 29 16:29	2°♄59'26	18°08'07		14189 Feb 21 20:23	0°♄	
morning set	14188 Mar 16 07:08	27°♄42'25		morning set	14189 Feb 28 04:06	11°♄57'02	
	14188 Mar 17 12:33	0°♄					
desc. node	14188 Mar 25 20:05	15°♄17'29		superior conj	14189 Mar 08 20:04	28°♄43'31	0°31'09
				minimum elong	14189 Mar 08 22:01	28°♄52'44	0°30'58
superior conj	14188 Mar 26 02:15	15°♄45'02	-0°02'05		14189 Mar 09 12:20	0°♄	
minimum elong	14188 Mar 26 02:04	15°♄44'12	0°02'13	desc. node	14189 Mar 12 16:36	5°♄52'27	
behind sun begin	14188 Mar 25 18:27	15°♄10'10		max. Earth dist.	14189 Mar 16 00:12	11°♄48'50	1.39539 AU
behind sun end	14188 Mar 26 09:40	16°♄18'09		evening rise	14189 Mar 19 22:57	18°♄37'43	
max. Earth dist.	14188 Apr 02 17:08	28°♄57'13	1.41742 AU		14189 Mar 26 21:43	0°♄	
	14188 Apr 03 08:08	0°♄			14189 Apr 16 23:34	0°♄	
evening rise	14188 Apr 07 18:04	7°♄14'35		evening max el	14189 Apr 23 22:03	7°♄48'04	24°09'57
	14188 Apr 22 15:36	0°♄		retrograde	14189 May 05 04:24	14°♄24'31	
evening max el	14188 May 11 07:59	23°♄55'31	22°48'47	asc. node	14189 May 06 19:14	14°♄12'58	
asc. node	14188 May 19 21:58	29°♄42'21		evening set	14189 May 10 14:38	12°♄06'56	
retrograde	14188 May 21 10:44	29°♄52'56		min. Earth dist.	14189 May 15 05:42	6°♄45'53	0.68636 AU
evening set	14188 May 26 09:26	27°♄48'02		inferior conj	14189 May 16 01:51	5°♄37'39	2°29'57
inferior conj	14188 May 31 17:00	21°♄24'25	2°54'04	minimum elong	14189 May 15 23:48	5°♄44'35	2°28'33
minimum elong	14188 May 31 15:28	21°♄29'45	2°52'47		14189 May 20 21:06	30°♄	
min. Earth dist.	14188 May 31 09:29	21°♄50'32	0.68978 AU	morning rise	14189 May 21 09:03	29°♄35'55	
morning rise	14188 Jun 05 21:24	15°♄14'37		direct	14189 May 25 08:43	28°♄05'27	
direct	14188 Jun 10 09:19	13°♄23'44			14189 May 30 06:17	0°♄	
morning max el	14188 Jun 19 04:03	18°♄28'37	21°22'47	morning max el	14189 Jun 02 01:35	2°♄25'08	20°07'57
desc. node	14188 Jun 21 21:11	21°♄23'38		desc. node	14189 Jun 08 18:12	10°♄19'15	
	14188 Jun 28 16:52	0°♄			14189 Jun 22 10:41	0°♄	
	14188 Jul 19 01:44	0°♄		morning set	14189 Jun 29 18:57	11°♄10'35	
morning set	14188 Jul 20 13:49	2°♄21'29		max. Earth dist.	14189 Jul 09 18:53	26°♄49'06	1.44314 AU
max. Earth dist.	14188 Jul 27 08:17	13°♄13'22	1.42553 AU		14189 Jul 11 18:37	0°♄	
superior conj	14188 Aug 03 17:44	25°♄37'06	-1°34'44	superior conj	14189 Jul 15 11:57	6°♄01'42	-2°01'23



minimum elong	14189 Jul 15 18:35	6°Ω28'48	2°01'53	minimum elong	14190 Jun 25 09:17	15°Ω37'29	2°14'35
evening rise	14189 Jul 28 12:56	27°Ω57'09			14190 Jul 04 09:29	0°Ω	
	14189 Jul 29 17:30	0°Π		evening rise	14190 Jul 10 01:56	9°Ω14'39	
asc. node	14189 Aug 02 18:45	6°Π56'14		asc. node	14190 Jul 20 15:28	26°Ω19'36	
evening max el	14189 Aug 14 20:21	24°Π29'12	18°03'49		14190 Jul 23 01:43	0°Π	
retrograde	14189 Aug 21 06:30	27°Π49'46		evening max el	14190 Jul 29 10:32	8°Π03'56	18°20'00
evening set	14189 Aug 23 22:04	27°Π14'24		retrograde	14190 Aug 04 19:40	11°Π27'51	
inferior conj	14189 Aug 30 06:47	22°Π02'11	1°33'16	evening set	14190 Aug 07 19:55	10°Π37'53	
minimum elong	14189 Aug 30 09:03	21°Π56'16	1°32'17	inferior conj	14190 Aug 13 16:53	5°Π09'02	2°21'29
min. Earth dist.	14189 Sep 02 03:21	19°Π03'32	0.62437 AU	minimum elong	14190 Aug 13 19:16	5°Π02'05	2°20'22
desc. node	14189 Sep 04 15:31	16°Π44'43		min. Earth dist.	14190 Aug 16 00:25	2°Π27'48	0.64544 AU
morning rise	14189 Sep 05 17:43	15°Π53'57			14190 Aug 18 08:48	30°RΩ	
direct	14189 Sep 12 10:05	13°Π29'01		morning rise	14190 Aug 19 17:12	28°Ω48'52	
morning max el	14189 Sep 26 12:02	21°Π29'18	27°56'14	desc. node	14190 Aug 22 13:01	27°Ω01'55	
	14189 Oct 03 22:21	0°Ω		direct	14190 Aug 26 06:38	26°Ω12'08	
	14189 Oct 23 04:45	0°Π			14190 Sep 04 06:19	0°Π	
asc. node	14189 Oct 29 20:47	12°Π49'36		morning max el	14190 Sep 08 22:15	4°Π09'44	27°25'38
morning set	14189 Oct 30 15:03	14°Π22'20			14190 Sep 28 11:12	0°Ω	
max. Earth dist.	14189 Nov 04 22:09	25°Π31'55	1.31804 AU	morning set	14190 Oct 14 05:02	27°Ω48'58	
	14189 Nov 06 23:19	0°X			14190 Oct 15 07:31	0°Π	
superior conj	14189 Nov 07 04:08	0°X26'28	1°11'34	asc. node	14190 Oct 16 17:27	2°Π50'37	
minimum elong	14189 Nov 07 01:53	0°X14'02	1°12'06	max. Earth dist.	14190 Oct 18 18:31	7°Π02'29	1.32935 AU
evening rise	14189 Nov 13 22:26	15°X17'23		superior conj	14190 Oct 22 08:59	14°Π38'51	0°51'10
	14189 Nov 21 03:14	0°Ω		minimum elong	14190 Oct 22 06:49	14°Π27'17	0°51'26
desc. node	14189 Dec 01 12:14	17°Ω02'32		evening rise	14190 Oct 29 09:22	29°Π46'57	
evening max el	14189 Dec 08 19:13	25°Ω33'47	24°16'28		14190 Oct 29 11:49	0°X	
	14189 Dec 14 12:34	0°≈			14190 Nov 15 08:28	0°Ω	
retrograde	14189 Dec 22 10:46	2°≈21'24		desc. node	14190 Nov 18 09:24	3°Ω38'58	
evening set	14189 Dec 27 12:45	1°≈24'53		evening max el	14190 Nov 20 05:21	5°Ω32'53	22°33'47
	14189 Dec 30 16:36	30°RΩ		retrograde	14190 Dec 03 03:31	11°Ω57'17	
min. Earth dist.	14190 Jan 02 06:49	28°Ω31'34	0.55794 AU	evening set	14190 Dec 06 21:25	11°Ω26'36	
inferior conj	14190 Jan 04 11:04	27°Ω11'35	-5°35'43	min. Earth dist.	14190 Dec 14 13:16	7°Ω59'01	0.54715 AU
minimum elong	14190 Jan 04 17:54	27°Ω01'06	5°33'42	inferior conj	14190 Dec 15 09:27	7°Ω30'33	-5°58'23
morning rise	14190 Jan 13 00:57	23°Ω11'42		minimum elong	14190 Dec 15 08:22	7°Ω32'06	5°57'19
direct	14190 Jan 15 11:27	22°Ω56'08		morning rise	14190 Dec 23 20:33	3°Ω42'57	
morning max el	14190 Jan 25 16:09	27°Ω51'07	19°50'38	direct	14190 Dec 27 01:30	3°Ω19'34	
asc. node	14190 Jan 25 20:03	28°Ω00'36		morning max el	14191 Jan 07 19:24	8°Ω57'13	21°16'15
	14190 Jan 27 16:51	0°≈		asc. node	14191 Jan 12 17:20	14°Ω33'28	
morning set	14190 Feb 12 08:32	26°≈30'03			14191 Jan 22 03:49	0°≈	
	14190 Feb 14 01:51	0°X		morning set	14191 Jan 27 17:34	11°≈12'41	
superior conj	14190 Feb 20 04:46	12°X22'04	0°57'48	superior conj	14191 Feb 04 00:18	26°≈28'57	1°17'31
minimum elong	14190 Feb 20 07:27	12°X35'22	0°57'49	minimum elong	14191 Feb 04 02:45	26°≈41'38	1°17'53
max. Earth dist.	14190 Feb 26 06:39	24°X04'38	1.37283 AU		14191 Feb 05 17:20	0°X	
desc. node	14190 Feb 27 13:06	26°X25'29		max. Earth dist.	14191 Feb 08 16:54	5°X59'49	1.35202 AU
	14190 Mar 01 12:21	0°Y		evening rise	14191 Feb 12 18:09	13°X48'51	
evening rise	14190 Mar 02 00:03	0°Y52'24		desc. node	14191 Feb 14 09:37	16°X52'22	
	14190 Mar 20 02:33	0°X			14191 Feb 21 21:40	0°Y	
evening max el	14190 Apr 06 11:39	21°X41'42	25°26'23		14191 Mar 14 22:31	0°X	
retrograde	14190 Apr 18 17:42	28°X46'46		evening max el	14191 Mar 20 01:24	5°X29'42	26°30'44
asc. node	14190 Apr 23 16:34	27°X04'07		retrograde	14191 Apr 02 01:42	12°X51'49	
evening set	14190 Apr 24 15:21	26°X19'47		evening set	14191 Apr 08 09:49	10°X19'55	
min. Earth dist.	14190 Apr 28 23:09	21°X34'49	0.67842 AU	asc. node	14191 Apr 10 13:57	8°X18'02	
inferior conj	14190 Apr 30 07:53	19°X49'11	1°55'20	min. Earth dist.	14191 Apr 12 11:36	6°X09'54	0.66618 AU
minimum elong	14190 Apr 30 05:45	19°X56'05	1°53'57	inferior conj	14191 Apr 14 08:57	3°X53'22	1°09'37
morning rise	14190 May 05 20:33	13°X56'54		minimum elong	14191 Apr 14 07:19	3°X58'17	1°08'33
direct	14190 May 09 08:44	12°X46'14			14191 Apr 17 21:17	30°RY	
morning max el	14190 May 16 06:38	16°X32'05	19°07'34	morning rise	14191 Apr 20 05:49	28°Y12'15	
desc. node	14190 May 26 15:05	29°X48'39		direct	14191 Apr 23 07:28	27°Y19'31	
	14190 May 26 18:11	0°Π			14191 Apr 28 23:06	0°X	
greatest brilliancy	14190 May 29 06:07	3°Π41'43	-0.7m	morning max el	14191 Apr 29 18:19	0°X44'33	18°23'24
morning set	14190 Jun 08 23:34	20°Π04'25		desc. node	14191 May 13 11:51	19°X42'10	
	14190 Jun 15 09:28	0°Ω		morning set	14191 May 19 23:38	29°X57'40	
max. Earth dist.	14190 Jun 22 11:26	11°Ω02'47	1.45464 AU		14191 May 20 00:13	0°Π	
superior conj	14190 Jun 25 08:10	15°Ω33'07	-2°13'33	superior conj	14191 Jun 04 16:32	24°Π38'59	-2°05'58

minimum elong	14191 Jun 04 10:07	24° $\Pi$ 13'57	2°06'41	superior conj	14192 May 14 06:26	4° $\Pi$ 06'13	-1°39'57
max. Earth dist.	14191 Jun 05 07:16	25° $\Pi$ 36'29	1.45890 AU	minimum elong	14192 May 13 21:27	3° $\Pi$ 30'35	1°39'58
	14191 Jun 08 02:49	0° $\mathfrak{S}$		max. Earth dist.	14192 May 18 03:22	10° $\Pi$ 12'42	1.45562 AU
evening rise	14191 Jun 20 14:10	19° $\mathfrak{S}$ 30'33		evening rise	14192 May 30 06:52	29° $\Pi$ 02'10	
	14191 Jun 27 06:47	0° $\Omega$			14192 May 30 21:57	0° $\mathfrak{S}$	
greatest brilliancy	14191 Jun 30 04:37	4° $\Omega$ 30'48	-0.8m	greatest brilliancy	14192 Jun 13 11:03	20° $\mathfrak{S}$ 25'31	-0.6m
asc. node	14191 Jul 07 12:14	15° $\Omega$ 17'42			14192 Jun 20 08:14	0° $\Omega$	
evening max el	14191 Jul 12 21:48	21° $\Omega$ 48'15	18°53'40	asc. node	14192 Jun 23 09:07	3° $\Omega$ 41'56	
retrograde	14191 Jul 19 14:52	25° $\Omega$ 29'00		evening max el	14192 Jun 25 04:05	5° $\Omega$ 36'44	19°43'40
evening set	14191 Jul 23 00:08	24° $\Omega$ 22'50		retrograde	14192 Jul 02 13:06	9° $\Omega$ 46'33	
inferior conj	14191 Jul 28 12:57	18° $\Omega$ 39'09	2°52'02	evening set	14192 Jul 06 07:56	8° $\Omega$ 23'27	
minimum elong	14191 Jul 28 14:42	18° $\Omega$ 33'36	2°50'59	inferior conj	14192 Jul 11 15:52	2° $\Omega$ 26'31	3°07'51
min. Earth dist.	14191 Jul 30 06:07	16° $\Omega$ 29'11	0.66311 AU	minimum elong	14192 Jul 11 16:41	2° $\Omega$ 23'49	3°06'50
morning rise	14191 Aug 03 04:29	12° $\Omega$ 14'23		min. Earth dist.	14192 Jul 12 18:45	0° $\Omega$ 56'33	0.67659 AU
direct	14191 Aug 09 10:29	9° $\Omega$ 35'16			14192 Jul 13 11:59	30° $\mathfrak{R}$ $\mathfrak{S}$	
desc. node	14191 Aug 09 10:28	9° $\Omega$ 35'16		morning rise	14192 Jul 17 00:59	26° $\mathfrak{S}$ 02'20	
morning max el	14191 Aug 22 09:35	17° $\Omega$ 17'16	26°26'31	direct	14192 Jul 22 20:43	23° $\mathfrak{S}$ 29'16	
	14191 Sep 02 00:35	0° $\mathfrak{M}$		desc. node	14192 Jul 26 07:53	24° $\mathfrak{S}$ 14'30	
	14191 Sep 21 09:23	0° $\mathfrak{L}$			14192 Aug 03 04:12	0° $\Omega$	
morning set	14191 Sep 27 07:09	10° $\mathfrak{L}$ 41'58		morning max el	14192 Aug 03 20:26	0° $\Omega$ 40'31	25°07'51
max. Earth dist.	14191 Oct 01 05:21	18° $\mathfrak{L}$ 14'40	1.34582 AU		14192 Aug 25 23:01	0° $\mathfrak{M}$	
asc. node	14191 Oct 03 14:03	22° $\mathfrak{L}$ 57'06		morning set	14192 Sep 08 17:24	22° $\mathfrak{M}$ 51'17	
				max. Earth dist.	14192 Sep 12 07:06	29° $\mathfrak{M}$ 20'44	1.36665 AU
superior conj	14191 Oct 06 07:12	28° $\mathfrak{L}$ 29'46	0°25'13		14192 Sep 12 15:33	0° $\mathfrak{L}$	
minimum elong	14191 Oct 06 05:52	28° $\mathfrak{L}$ 22'49	0°25'21				
	14191 Oct 07 00:37	0° $\mathfrak{M}$		superior conj	14192 Sep 18 19:46	11° $\mathfrak{L}$ 51'08	-0°05'45
evening rise	14191 Oct 13 18:39	14° $\mathfrak{M}$ 10'31		minimum elong	14192 Sep 18 20:08	11° $\mathfrak{L}$ 52'53	0°05'34
	14191 Oct 21 19:05	0° $\mathfrak{J}$		behind sun begin	14192 Sep 18 14:02	11° $\mathfrak{L}$ 22'47	
evening max el	14191 Nov 01 22:55	15° $\mathfrak{J}$ 48'25	20°58'57	behind sun end	14192 Sep 19 02:14	12° $\mathfrak{L}$ 23'04	
desc. node	14191 Nov 05 06:40	18° $\mathfrak{J}$ 38'30		asc. node	14192 Sep 19 10:37	13° $\mathfrak{L}$ 04'38	
retrograde	14191 Nov 13 14:12	21° $\mathfrak{J}$ 35'26		evening rise	14192 Sep 26 24:00	28° $\mathfrak{L}$ 21'20	
evening set	14191 Nov 16 02:57	21° $\mathfrak{J}$ 20'12			14192 Sep 27 19:30	0° $\mathfrak{M}$	
inferior conj	14191 Nov 25 00:41	17° $\mathfrak{J}$ 26'57	-5°21'24	evening max el	14192 Oct 14 06:19	26° $\mathfrak{M}$ 47'14	19°42'47
minimum elong	14191 Nov 24 15:52	17° $\mathfrak{J}$ 39'29	5°18'40		14192 Oct 18 06:27	0° $\mathfrak{J}$	
min. Earth dist.	14191 Nov 25 19:05	17° $\mathfrak{J}$ 00'48	0.54510 AU	desc. node	14192 Oct 22 04:04	1° $\mathfrak{J}$ 34'07	
morning rise	14191 Dec 03 05:06	13° $\mathfrak{J}$ 34'31		retrograde	14192 Oct 24 06:25	1° $\mathfrak{J}$ 46'53	
direct	14191 Dec 07 08:55	12° $\mathfrak{J}$ 57'28		evening set	14192 Oct 26 04:37	1° $\mathfrak{J}$ 36'38	
morning max el	14191 Dec 20 10:05	19° $\mathfrak{J}$ 16'16	23°00'02		14192 Oct 30 18:38	30° $\mathfrak{R}$ $\mathfrak{M}$	
	14191 Dec 29 04:37	0° $\mathfrak{Z}$		inferior conj	14192 Nov 03 23:19	27° $\mathfrak{M}$ 34'03	-3°53'59
asc. node	14191 Dec 30 14:31	2° $\mathfrak{Z}$ 09'53		minimum elong	14192 Nov 03 13:51	27° $\mathfrak{M}$ 48'51	3°50'02
morning set	14192 Jan 12 05:01	25° $\mathfrak{Z}$ 58'40		min. Earth dist.	14192 Nov 06 03:40	26° $\mathfrak{M}$ 12'21	0.55243 AU
	14192 Jan 14 02:04	0° $\approx$		morning rise	14192 Nov 11 21:22	23° $\mathfrak{M}$ 16'27	
				direct	14192 Nov 16 23:09	22° $\mathfrak{M}$ 19'24	
superior conj	14192 Jan 19 03:27	10° $\approx$ 55'22	1°30'29	morning max el	14192 Nov 30 19:36	29° $\mathfrak{M}$ 13'40	24°48'56
minimum elong	14192 Jan 19 05:07	11° $\approx$ 04'16	1°31'13		14192 Dec 01 14:41	0° $\mathfrak{J}$	
max. Earth dist.	14192 Jan 22 10:07	17° $\approx$ 51'54	1.33469 AU	asc. node	14192 Dec 16 11:38	20° $\mathfrak{J}$ 33'51	
evening rise	14192 Jan 27 01:46	27° $\approx$ 18'27			14192 Dec 21 12:57	0° $\mathfrak{Z}$	
	14192 Jan 28 10:53	0° $\mathfrak{H}$		morning set	14192 Dec 26 16:55	10° $\mathfrak{Z}$ 41'34	
desc. node	14192 Feb 01 06:14	7° $\mathfrak{H}$ 09'04					
	14192 Feb 15 04:29	0° $\mathfrak{Y}$		superior conj	14193 Jan 02 11:31	25° $\mathfrak{Z}$ 32'35	1°37'02
evening max el	14192 Mar 01 14:50	19° $\mathfrak{Y}$ 02'59	27°15'36	minimum elong	14193 Jan 02 12:08	25° $\mathfrak{Z}$ 35'58	1°38'01
retrograde	14192 Mar 15 03:41	26° $\mathfrak{Y}$ 31'44		max. Earth dist.	14193 Jan 04 10:40	29° $\mathfrak{Z}$ 50'20	1.32188 AU
evening set	14192 Mar 21 20:02	24° $\mathfrak{Y}$ 00'46			14193 Jan 04 12:26	0° $\approx$	
min. Earth dist.	14192 Mar 25 17:06	20° $\mathfrak{Y}$ 23'23	0.65002 AU	evening rise	14193 Jan 09 19:37	11° $\approx$ 12'20	
asc. node	14192 Mar 27 11:23	18° $\mathfrak{Y}$ 27'14		desc. node	14193 Jan 18 02:56	27° $\approx$ 09'29	
inferior conj	14192 Mar 28 02:40	17° $\mathfrak{Y}$ 44'48	0°12'09		14193 Jan 19 17:31	0° $\mathfrak{H}$	
minimum elong	14192 Mar 28 02:19	17° $\mathfrak{Y}$ 45'45	0°11'48		14193 Feb 09 22:49	0° $\mathfrak{Y}$	
transit middle	14192 Mar 28 02:19	17° $\mathfrak{Y}$ 45'45	0°11'48	evening max el	14193 Feb 12 02:28	2° $\mathfrak{Y}$ 09'35	27°34'11
transit begin	14192 Mar 28 00:16	17° $\mathfrak{Y}$ 51'26		retrograde	14193 Feb 25 22:47	9° $\mathfrak{Y}$ 36'22	
transit end	14192 Mar 28 04:22	17° $\mathfrak{Y}$ 40'05		evening set	14193 Mar 04 19:34	7° $\mathfrak{Y}$ 13'46	
morning rise	14192 Apr 03 10:24	12° $\mathfrak{Y}$ 16'55		min. Earth dist.	14193 Mar 08 13:53	4° $\mathfrak{Y}$ 04'39	0.63055 AU
direct	14192 Apr 06 02:37	11° $\mathfrak{Y}$ 39'14		inferior conj	14193 Mar 11 10:07	1° $\mathfrak{Y}$ 15'56	-0°57'19
morning max el	14192 Apr 12 10:31	14° $\mathfrak{Y}$ 56'02	17°56'07	minimum elong	14193 Mar 11 12:00	1° $\mathfrak{Y}$ 11'15	0°56'29
	14192 Apr 23 07:49	0° $\mathfrak{B}$			14193 Mar 12 17:14	30° $\mathfrak{R}$ $\mathfrak{H}$	
desc. node	14192 Apr 29 08:33	9° $\mathfrak{B}$ 53'20		asc. node	14193 Mar 14 08:51	28° $\mathfrak{H}$ 30'47	
morning set	14192 Apr 30 03:43	11° $\mathfrak{B}$ 12'30		morning rise	14193 Mar 18 07:04	26° $\mathfrak{H}$ 03'44	
	14192 May 11 16:36	0° $\Pi$		direct	14193 Mar 20 15:20	25° $\mathfrak{H}$ 37'34	

morning max el	14193 Mar 27 04:18	28° $\Upsilon$ 57'38	17°46'16	morning set	14194 Mar 26 10:44	7° $\Upsilon$ 03'11	
	14193 Mar 28 04:24	0° $\Upsilon$		desc. node	14194 Apr 03 01:44	20° $\Upsilon$ 47'30	
morning set	14193 Apr 12 09:28	23° $\Upsilon$ 40'37					
desc. node	14193 Apr 16 05:11	0° $\mathcal{B}$ 16'40		superior conj	14194 Apr 06 01:10	26° $\Upsilon$ 00'09	-0°23'36
	14193 Apr 16 01:19	0° $\mathcal{B}$		minimum elong	14194 Apr 05 23:03	25° $\Upsilon$ 51'00	0°23'37
					14194 Apr 08 09:00	0° $\mathcal{B}$	
superior conj	14193 Apr 24 15:51	14° $\mathcal{B}$ 30'10	-1°03'03	max. Earth dist.	14194 Apr 13 11:23	8° $\mathcal{B}$ 31'49	1.42890 AU
minimum elong	14193 Apr 24 09:37	14° $\mathcal{B}$ 04'32	1°02'51	evening rise	14194 Apr 19 15:25	18° $\mathcal{B}$ 27'05	
max. Earth dist.	14193 Apr 30 21:13	24° $\mathcal{B}$ 35'33	1.44524 AU		14194 Apr 27 03:18	0° $\Pi$	
	14193 May 04 07:12	0° $\Pi$			14194 May 18 22:21	0° $\mathcal{E}$	
evening rise	14193 May 09 18:04	8° $\Pi$ 28'09		evening max el	14194 May 21 23:39	3° $\mathcal{E}$ 17'50	22°02'50
	14193 May 24 03:46	0° $\mathcal{E}$		asc. node	14194 May 28 03:12	8° $\mathcal{E}$ 01'02	
evening max el	14193 Jun 08 04:32	19° $\mathcal{E}$ 26'55	20°47'54	retrograde	14194 May 31 10:01	8° $\mathcal{E}$ 49'37	
asc. node	14193 Jun 10 06:06	21° $\mathcal{E}$ 21'19		evening set	14194 Jun 05 02:09	6° $\mathcal{E}$ 53'26	
retrograde	14193 Jun 16 12:06	24° $\mathcal{E}$ 15'20		inferior conj	14194 Jun 10 08:32	0° $\mathcal{E}$ 34'49	3°03'17
evening set	14193 Jun 20 17:12	22° $\mathcal{E}$ 35'18		minimum elong	14194 Jun 10 07:25	0° $\mathcal{E}$ 38'41	3°02'06
inferior conj	14193 Jun 25 23:08	16° $\mathcal{E}$ 26'39	3°11'07	min. Earth dist.	14194 Jun 10 08:29	0° $\mathcal{E}$ 34'59	0.68964 AU
minimum elong	14193 Jun 25 22:56	16° $\mathcal{E}$ 27'20	3°10'04		14194 Jun 10 18:31	30° $\mathcal{R}\Pi$	
min. Earth dist.	14193 Jun 26 12:18	15° $\mathcal{E}$ 41'07	0.68550 AU	morning rise	14194 Jun 15 12:30	24° $\Pi$ 20'53	
morning rise	14193 Jul 01 04:23	10° $\mathcal{E}$ 06'30		direct	14194 Jun 20 07:49	22° $\Pi$ 18'21	
direct	14193 Jul 06 12:15	7° $\mathcal{E}$ 46'17		morning max el	14194 Jun 29 19:19	27° $\Pi$ 52'13	22°10'49
desc. node	14193 Jul 13 05:13	10° $\mathcal{E}$ 34'41		desc. node	14194 Jun 30 02:26	28° $\Pi$ 10'13	
morning max el	14193 Jul 17 06:55	14° $\mathcal{E}$ 12'34	23°39'32		14194 Jul 01 19:41	0° $\mathcal{E}$	
	14193 Jul 30 03:07	0° $\mathcal{Q}$			14194 Jul 23 17:41	0° $\mathcal{Q}$	
	14193 Aug 18 20:27	0° $\mathcal{P}$		morning set	14194 Aug 01 21:06	14° $\mathcal{Q}$ 17'39	
morning set	14193 Aug 21 07:22	4° $\mathcal{P}$ 06'26		max. Earth dist.	14194 Aug 07 05:29	23° $\mathcal{Q}$ 04'22	1.41340 AU
max. Earth dist.	14193 Aug 25 04:47	10° $\mathcal{P}$ 48'23	1.39006 AU		14194 Aug 11 07:23	0° $\mathcal{P}$	
superior conj	14193 Sep 01 19:06	24° $\mathcal{P}$ 34'55	-0°40'14	superior conj	14194 Aug 15 00:48	6° $\mathcal{P}$ 30'48	-1°15'38
minimum elong	14193 Sep 01 22:00	24° $\mathcal{P}$ 48'34	0°39'55	minimum elong	14194 Aug 15 06:36	6° $\mathcal{P}$ 56'32	1°15'20
	14193 Sep 04 15:42	0° $\mathcal{A}$		asc. node	14194 Aug 24 03:44	23° $\mathcal{P}$ 09'07	
asc. node	14193 Sep 06 07:11	3° $\mathcal{A}$ 09'59		evening rise	14194 Aug 25 11:19	25° $\mathcal{P}$ 36'04	
evening rise	14193 Sep 10 22:43	12° $\mathcal{A}$ 12'56			14194 Aug 27 20:11	0° $\mathcal{A}$	
	14193 Sep 20 15:39	0° $\mathcal{M}$		evening max el	14194 Sep 10 10:18	21° $\mathcal{A}$ 05'40	18°15'36
evening max el	14193 Sep 27 03:23	8° $\mathcal{M}$ 35'30	18°48'32	retrograde	14194 Sep 17 17:47	24° $\mathcal{A}$ 48'43	
retrograde	14193 Oct 05 14:27	12° $\mathcal{M}$ 50'53		evening set	14194 Sep 19 20:52	24° $\mathcal{A}$ 30'28	
evening set	14193 Oct 07 11:51	12° $\mathcal{M}$ 38'54		desc. node	14194 Sep 25 23:01	20° $\mathcal{A}$ 54'58	
desc. node	14193 Oct 09 01:30	12° $\mathcal{M}$ 11'55		inferior conj	14194 Sep 27 07:04	19° $\mathcal{A}$ 48'24	-0°25'15
inferior conj	14193 Oct 15 16:19	8° $\mathcal{M}$ 18'10	-2°06'16	minimum elong	14194 Sep 27 06:09	19° $\mathcal{A}$ 50'19	0°24'38
minimum elong	14193 Oct 15 11:04	8° $\mathcal{M}$ 27'39	2°03'37	min. Earth dist.	14194 Sep 30 14:04	17° $\mathcal{A}$ 02'33	0.58852 AU
min. Earth dist.	14193 Oct 18 17:19	6° $\mathcal{M}$ 06'54	0.56784 AU	morning rise	14194 Oct 04 12:01	14° $\mathcal{A}$ 19'03	
morning rise	14193 Oct 23 07:04	3° $\mathcal{M}$ 24'28		direct	14194 Oct 10 21:04	12° $\mathcal{A}$ 29'42	
direct	14193 Oct 29 03:18	2° $\mathcal{M}$ 02'04		morning max el	14194 Oct 25 04:26	20° $\mathcal{A}$ 11'41	27°30'21
morning max el	14193 Nov 12 08:17	9° $\mathcal{M}$ 23'42	26°24'24		14194 Nov 02 14:53	0° $\mathcal{M}$	
	14193 Nov 27 22:37	0° $\mathcal{J}$		asc. node	14194 Nov 20 05:34	28° $\mathcal{M}$ 58'54	
asc. node	14193 Dec 03 08:39	9° $\mathcal{J}$ 33'28			14194 Nov 20 18:00	0° $\mathcal{J}$	
morning set	14193 Dec 11 03:33	25° $\mathcal{J}$ 16'53		morning set	14194 Nov 25 11:10	9° $\mathcal{J}$ 40'01	
	14193 Dec 13 07:40	0° $\mathcal{Z}$					
				superior conj	14194 Dec 02 09:55	24° $\mathcal{J}$ 55'09	1°32'00
superior conj	14193 Dec 17 22:19	10° $\mathcal{Z}$ 14'27	1°37'28	minimum elong	14194 Dec 02 08:31	24° $\mathcal{J}$ 47'17	1°32'57
minimum elong	14193 Dec 17 21:52	10° $\mathcal{Z}$ 11'53	1°38'32	max. Earth dist.	14194 Dec 02 01:01	24° $\mathcal{J}$ 05'22	1.31137 AU
max. Earth dist.	14193 Dec 18 16:42	11° $\mathcal{Z}$ 56'47	1.31406 AU		14194 Dec 04 16:28	0° $\mathcal{Z}$	
evening rise	14193 Dec 24 21:00	25° $\mathcal{Z}$ 24'00		evening rise	14194 Dec 09 03:34	9° $\mathcal{Z}$ 47'25	
	14193 Dec 27 02:14	0° $\approx$			14194 Dec 19 09:42	0° $\approx$	
desc. node	14194 Jan 04 23:42	16° $\approx$ 47'08		desc. node	14194 Dec 22 20:34	5° $\approx$ 53'14	
	14194 Jan 13 07:34	0° $\mathcal{X}$		evening max el	14195 Jan 07 11:12	26° $\approx$ 16'47	26°32'09
evening max el	14194 Jan 25 10:11	14° $\mathcal{X}$ 37'43	27°20'34		14195 Jan 11 23:56	0° $\mathcal{X}$	
retrograde	14194 Feb 08 09:35	21° $\mathcal{X}$ 56'07		retrograde	14195 Jan 21 10:19	3° $\mathcal{X}$ 24'19	
evening set	14194 Feb 15 05:23	19° $\mathcal{X}$ 49'57		evening set	14195 Jan 27 21:53	1° $\mathcal{X}$ 41'41	
min. Earth dist.	14194 Feb 19 00:39	17° $\mathcal{X}$ 02'08	0.60904 AU		14195 Jan 30 17:29	30° $\mathcal{R}\approx$	
inferior conj	14194 Feb 22 03:57	14° $\mathcal{X}$ 18'05	-2°17'26	min. Earth dist.	14195 Feb 01 00:53	29° $\approx$ 04'37	0.58720 AU
minimum elong	14194 Feb 22 08:54	14° $\mathcal{X}$ 07'14	2°15'06	inferior conj	14195 Feb 04 04:31	26° $\approx$ 41'34	-3°42'55
asc. node	14194 Mar 01 06:21	9° $\mathcal{X}$ 31'26		minimum elong	14195 Feb 04 12:32	26° $\approx$ 26'21	3°39'32
morning rise	14194 Mar 01 15:35	9° $\mathcal{X}$ 24'15		morning rise	14195 Feb 12 06:16	22° $\approx$ 08'54	
direct	14194 Mar 03 18:05	9° $\mathcal{X}$ 05'54		direct	14195 Feb 14 06:41	21° $\approx$ 54'42	
morning max el	14194 Mar 10 20:22	12° $\mathcal{X}$ 39'42	17°54'32	asc. node	14195 Feb 16 03:49	22° $\approx$ 07'36	
	14194 Mar 22 12:59	0° $\Upsilon$		morning max el	14195 Feb 22 07:03	25° $\approx$ 52'17	18°22'24

	14195 Feb 25 19:50	0° $\text{H}$		asc. node	14196 Feb 03 01:14	6° $\approx$ 25'22	
morning set	14195 Mar 10 01:53	21° $\text{H}$ 03'29		morning max el	14196 Feb 05 08:12	8° $\approx$ 22'51	19°11'53
	14195 Mar 14 18:42	0° $\text{Y}$			14196 Feb 19 07:48	0° $\text{H}$	
				morning set	14196 Feb 22 02:26	5° $\text{H}$ 27'19	
superior conj	14195 Mar 19 08:26	8° $\text{Y}$ 30'30	0°12'46				
minimum elong	14195 Mar 19 09:21	8° $\text{Y}$ 34'42	0°12'34	superior conj	14196 Mar 01 09:08	21° $\text{H}$ 47'53	0°43'17
behind sun begin	14195 Mar 19 04:50	8° $\text{Y}$ 14'02		minimum elong	14196 Mar 01 11:33	21° $\text{H}$ 59'29	0°43'09
behind sun end	14195 Mar 19 13:52	8° $\text{Y}$ 55'20			14196 Mar 05 17:18	0° $\text{Y}$	
desc. node	14195 Mar 20 22:15	11° $\text{Y}$ 22'19		desc. node	14196 Mar 06 18:44	1° $\text{Y}$ 56'56	
max. Earth dist.	14195 Mar 26 21:21	21° $\text{Y}$ 51'16	1.40833 AU	max. Earth dist.	14196 Mar 08 03:56	4° $\text{Y}$ 27'41	1.38572 AU
evening rise	14195 Mar 31 08:06	29° $\text{Y}$ 18'57		evening rise	14196 Mar 11 21:50	11° $\text{Y}$ 04'42	
	14195 Mar 31 18:06	0° $\text{B}$			14196 Mar 23 12:33	0° $\text{B}$	
	14195 Apr 20 15:07	0° $\text{II}$			14196 Apr 15 03:39	0° $\text{II}$	
evening max el	14195 May 04 15:01	17° $\text{II}$ 10'09	23°23'23	evening max el	14196 Apr 16 04:34	1° $\text{II}$ 03'02	24°43'19
retrograde	14195 May 15 05:30	23° $\text{II}$ 24'22		retrograde	14196 Apr 27 21:24	7° $\text{II}$ 53'02	
asc. node	14195 May 15 00:25	23° $\text{II}$ 24'10		asc. node	14196 Apr 30 21:42	7° $\text{II}$ 13'39	
evening set	14195 May 20 09:11	21° $\text{II}$ 13'39		evening set	14196 May 03 12:41	5° $\text{II}$ 30'40	
min. Earth dist.	14195 May 25 05:12	15° $\text{II}$ 31'54	0.68899 AU	min. Earth dist.	14196 May 08 00:24	0° $\text{II}$ 25'20	0.68360 AU
inferior conj	14195 May 25 18:07	14° $\text{II}$ 47'25	2°45'04		14196 May 08 08:02	30° $\text{R}$ 8	
minimum elong	14195 May 25 16:19	14° $\text{II}$ 53'37	2°43'44	inferior conj	14196 May 09 01:59	29° $\text{B}$ 00'13	2°16'33
morning rise	14195 May 30 23:25	8° $\text{II}$ 41'07		minimum elong	14196 May 08 23:51	29° $\text{B}$ 07'21	2°15'09
direct	14195 Jun 04 06:08	6° $\text{II}$ 58'47		morning rise	14196 May 14 11:13	23° $\text{B}$ 02'36	
morning max el	14195 Jun 12 12:55	11° $\text{II}$ 42'41	20°49'22	direct	14196 May 18 05:52	21° $\text{B}$ 40'53	
desc. node	14195 Jun 16 23:31	16° $\text{II}$ 41'14		morning max el	14196 May 25 13:45	25° $\text{B}$ 44'25	19°40'21
	14195 Jun 26 19:47	0° $\text{E}$			14196 May 29 09:18	0° $\text{II}$	
morning set	14195 Jul 12 11:27	23° $\text{E}$ 29'20		desc. node	14196 Jun 02 20:28	5° $\text{II}$ 52'27	
	14195 Jul 16 15:02	0° $\text{O}$		greatest brilliancy	14196 Jun 07 06:59	12° $\text{II}$ 12'26	-0.6m
max. Earth dist.	14195 Jul 20 12:53	6° $\text{O}$ 15'27	1.43379 AU		14196 Jun 19 02:54	0° $\text{E}$	
				morning set	14196 Jun 20 13:42	2° $\text{E}$ 13'23	
superior conj	14195 Jul 27 08:41	17° $\text{O}$ 29'51	-1°47'20	max. Earth dist.	14196 Jul 02 02:25	20° $\text{E}$ 09'56	1.44887 AU
minimum elong	14195 Jul 27 16:05	18° $\text{O}$ 00'57	1°47'26				
	14195 Aug 03 15:46	0° $\text{np}$		superior conj	14196 Jul 06 16:51	27° $\text{E}$ 29'36	-2°08'45
evening rise	14195 Aug 08 09:26	8° $\text{np}$ 20'18		minimum elong	14196 Jul 06 21:46	27° $\text{E}$ 49'21	2°09'31
asc. node	14195 Aug 11 00:20	12° $\text{np}$ 58'23			14196 Jul 08 06:12	0° $\text{O}$	
	14195 Aug 21 11:07	0° $\text{E}$		evening rise	14196 Jul 20 11:55	20° $\text{O}$ 12'54	
evening max el	14195 Aug 24 22:53	4° $\text{E}$ 08'04	18°02'37		14196 Jul 26 07:53	0° $\text{np}$	
retrograde	14195 Aug 31 13:54	7° $\text{E}$ 33'01		asc. node	14196 Jul 27 20:59	2° $\text{np}$ 33'08	
evening set	14195 Sep 03 00:39	7° $\text{E}$ 04'49		evening max el	14196 Aug 07 13:24	17° $\text{np}$ 33'33	18°08'28
inferior conj	14195 Sep 09 17:45	2° $\text{E}$ 02'38	0°56'17	retrograde	14196 Aug 13 22:09	20° $\text{np}$ 54'17	
minimum elong	14195 Sep 09 19:22	1° $\text{E}$ 58'41	0°55'37	evening set	14196 Aug 16 17:16	20° $\text{np}$ 13'05	
	14195 Sep 11 19:49	30° $\text{R}$ np		inferior conj	14196 Aug 22 20:32	14° $\text{np}$ 53'24	1°56'05
desc. node	14195 Sep 12 20:32	29° $\text{np}$ 01'23		minimum elong	14196 Aug 22 22:58	14° $\text{np}$ 46'41	1°54'59
min. Earth dist.	14195 Sep 12 19:57	29° $\text{np}$ 02'44	0.61136 AU	min. Earth dist.	14196 Aug 25 11:49	12° $\text{np}$ 00'02	0.63361 AU
morning rise	14195 Sep 16 11:17	26° $\text{np}$ 05'29		morning rise	14196 Aug 29 02:43	8° $\text{np}$ 38'42	
direct	14195 Sep 23 02:37	23° $\text{np}$ 51'54		desc. node	14196 Aug 29 18:02	8° $\text{np}$ 10'58	
	14195 Oct 05 10:24	0° $\text{E}$		direct	14196 Sep 04 18:16	6° $\text{np}$ 07'42	
morning max el	14195 Oct 07 08:06	1° $\text{E}$ 47'53	27°58'05	morning max el	14196 Sep 18 16:55	14° $\text{np}$ 08'57	27°47'18
	14195 Oct 27 23:14	0° $\text{ml}$			14196 Oct 01 13:11	0° $\text{E}$	
asc. node	14195 Nov 07 02:20	18° $\text{ml}$ 42'33			14196 Oct 19 13:25	0° $\text{ml}$	
morning set	14195 Nov 09 13:46	23° $\text{ml}$ 45'39		morning set	14196 Oct 23 09:09	7° $\text{ml}$ 29'00	
	14195 Nov 12 12:33	0° $\text{A}$		asc. node	14196 Oct 23 23:02	8° $\text{ml}$ 39'02	
max. Earth dist.	14195 Nov 15 07:40	6° $\text{A}$ 05'38	1.31403 AU	max. Earth dist.	14196 Oct 28 08:48	17° $\text{ml}$ 49'11	1.32215 AU
superior conj	14195 Nov 16 20:25	9° $\text{A}$ 28'50	1°20'43	superior conj	14196 Oct 31 03:57	23° $\text{ml}$ 50'59	1°03'37
minimum elong	14195 Nov 16 18:21	9° $\text{A}$ 17'21	1°21'24	minimum elong	14196 Oct 31 01:39	23° $\text{ml}$ 38'29	1°04'01
evening rise	14195 Nov 23 13:16	24° $\text{A}$ 16'41			14196 Nov 02 23:26	0° $\text{A}$	
	14195 Nov 26 05:56	0° $\text{B}$		evening rise	14196 Nov 07 00:17	8° $\text{A}$ 47'43	
desc. node	14195 Dec 09 17:33	24° $\text{B}$ 14'57			14196 Nov 17 20:00	0° $\text{B}$	
	14195 Dec 13 21:02	0° $\approx$		desc. node	14196 Nov 25 14:38	11° $\text{B}$ 36'07	
evening max el	14195 Dec 20 03:31	7° $\approx$ 02'02	25°12'15	evening max el	14196 Nov 30 13:36	17° $\text{B}$ 08'36	23°32'50
retrograde	14196 Jan 02 23:19	13° $\approx$ 58'26		retrograde	14196 Dec 13 23:38	23° $\text{B}$ 48'47	
evening set	14196 Jan 08 16:54	12° $\approx$ 44'19		evening set	14196 Dec 18 12:27	23° $\text{B}$ 04'06	
min. Earth dist.	14196 Jan 13 15:36	10° $\approx$ 02'35	0.56730 AU	min. Earth dist.	14196 Dec 25 00:10	19° $\text{B}$ 58'22	0.55234 AU
inferior conj	14196 Jan 16 08:38	8° $\approx$ 15'51	-5°01'36	inferior conj	14196 Dec 26 16:20	18° $\text{B}$ 59'25	-5°52'01
minimum elong	14196 Jan 16 17:24	8° $\approx$ 01'25	4°58'40	minimum elong	14196 Dec 26 20:23	18° $\text{B}$ 53'29	5°50'40
morning rise	14196 Jan 24 20:23	4° $\approx$ 05'21		morning rise	14197 Jan 04 05:59	15° $\text{B}$ 06'31	
direct	14196 Jan 27 00:42	3° $\approx$ 51'36		direct	14197 Jan 06 23:06	14° $\text{B}$ 48'33	

morning max el	14197 Jan 17 20:07	20° $\text{☿}$ 01'30	20°24'28	morning rise	14197 Dec 14 18:14	25° $\text{♄}$ 17'26	
asc. node	14197 Jan 19 22:33	22° $\text{☿}$ 13'49		direct	14197 Dec 18 08:41	24° $\text{♄}$ 48'54	
	14197 Jan 25 15:11	0° $\approx$			14197 Dec 29 21:39	0° $\text{☿}$	
morning set	14197 Feb 05 09:06	20° $\approx$ 05'04		morning max el	14197 Dec 30 17:25	0° $\text{☿}$ 45'27	21°58'47
	14197 Feb 10 04:21	0° $\text{♁}$		asc. node	14198 Jan 06 19:47	9° $\text{☿}$ 15'36	
					14198 Jan 18 11:45	0° $\approx$	
superior conj	14197 Feb 12 22:54	5° $\text{♁}$ 39'53	1°06'59	morning set	14198 Jan 20 19:23	4° $\approx$ 49'26	
minimum elong	14197 Feb 13 01:35	5° $\text{♁}$ 53'24	1°07'09				
max. Earth dist.	14197 Feb 18 11:03	16° $\text{♁}$ 30'33	1.36360 AU	superior conj	14198 Jan 27 22:02	19° $\approx$ 55'55	1°23'49
desc. node	14197 Feb 21 15:15	22° $\text{♁}$ 27'53		minimum elong	14198 Jan 28 00:11	20° $\approx$ 07'18	1°24'21
evening rise	14197 Feb 22 06:34	23° $\text{♁}$ 38'06		max. Earth dist.	14198 Jan 31 23:43	28° $\approx$ 21'02	1.34411 AU
	14197 Feb 25 20:08	0° $\text{♄}$			14198 Feb 01 19:21	0° $\text{♁}$	
	14197 Mar 17 04:57	0° $\text{♂}$		evening rise	14198 Feb 05 06:51	6° $\text{♁}$ 49'53	
evening max el	14197 Mar 29 18:00	14° $\text{♂}$ 54'29	25°55'36	desc. node	14198 Feb 08 11:50	12° $\text{♁}$ 51'12	
retrograde	14197 Apr 11 08:45	22° $\text{♂}$ 09'03			14198 Feb 18 12:24	0° $\text{♄}$	
evening set	14197 Apr 17 11:00	19° $\text{♂}$ 39'09		evening max el	14198 Mar 12 07:50	28° $\text{♄}$ 38'09	26°52'46
asc. node	14197 Apr 17 19:04	19° $\text{♂}$ 21'53			14198 Mar 13 18:49	0° $\text{♂}$	
min. Earth dist.	14197 Apr 21 15:59	15° $\text{♂}$ 09'16	0.67371 AU	retrograde	14198 Mar 25 14:29	6° $\text{♂}$ 04'45	
inferior conj	14197 Apr 23 06:11	13° $\text{♂}$ 09'14	1°37'20	evening set	14198 Apr 01 02:17	3° $\text{♂}$ 32'40	
minimum elong	14197 Apr 23 04:10	13° $\text{♂}$ 15'33	1°36'03	asc. node	14198 Apr 04 16:29	0° $\text{♂}$ 03'15	
morning rise	14197 Apr 28 22:01	7° $\text{♂}$ 21'33			14198 Apr 04 17:38	30° $\text{♄}$	
direct	14197 May 02 05:29	6° $\text{♂}$ 19'01		min. Earth dist.	14198 Apr 05 01:55	29° $\text{♄}$ 36'38	0.65966 AU
morning max el	14197 May 08 21:52	9° $\text{♂}$ 54'44	18°46'40	inferior conj	14198 Apr 07 04:29	27° $\text{♄}$ 09'31	0°46'46
desc. node	14197 May 20 17:20	25° $\text{♂}$ 33'12		minimum elong	14198 Apr 07 03:17	27° $\text{♄}$ 13'00	0°45'55
greatest brilliancy	14197 May 23 00:12	29° $\text{♂}$ 01'52	-0.8m	morning rise	14198 Apr 13 05:38	21° $\text{♄}$ 33'32	
	14197 May 23 15:22	0° $\text{♀}$		direct	14198 Apr 16 03:04	20° $\text{♄}$ 47'38	
morning set	14197 May 31 00:33	11° $\text{♀}$ 26'49		morning max el	14198 Apr 22 11:47	24° $\text{♄}$ 08'03	18°09'41
	14197 Jun 11 22:22	0° $\text{♁}$			14198 Apr 27 09:32	0° $\text{♂}$	
max. Earth dist.	14197 Jun 14 20:11	4° $\text{♁}$ 32'24	1.45733 AU	desc. node	14198 May 07 14:06	15° $\text{♂}$ 35'34	
				morning set	14198 May 11 12:28	21° $\text{♂}$ 55'19	
					14198 May 16 13:13	0° $\text{♀}$	
superior conj	14197 Jun 16 06:12	6° $\text{♁}$ 45'25	-2°12'51				
minimum elong	14197 Jun 16 03:55	6° $\text{♁}$ 36'27	2°13'52				
	14197 Jun 30 22:29	0° $\text{♂}$		superior conj	14198 May 26 14:56	15° $\text{♀}$ 56'03	-1°56'50
evening rise	14197 Jul 01 14:18	1° $\text{♂}$ 03'28		minimum elong	14198 May 26 06:36	15° $\text{♀}$ 23'23	1°57'14
asc. node	14197 Jul 14 17:42	21° $\text{♂}$ 46'49		max. Earth dist.	14198 May 28 16:14	19° $\text{♀}$ 08'55	1.45842 AU
	14197 Jul 20 22:44	0° $\text{♄}$			14198 Jun 04 15:31	0° $\text{♁}$	
evening max el	14197 Jul 22 02:38	1° $\text{♄}$ 13'13	18°32'17	evening rise	14198 Jun 11 17:05	10° $\text{♁}$ 57'39	
retrograde	14197 Jul 28 14:16	4° $\text{♄}$ 42'55		greatest brilliancy	14198 Jun 23 11:19	29° $\text{♁}$ 01'55	-0.7m
evening set	14197 Jul 31 18:12	3° $\text{♄}$ 46'24			14198 Jun 24 02:50	0° $\text{♂}$	
	14197 Aug 04 22:33	30° $\text{♄}$		asc. node	14198 Jul 01 14:32	10° $\text{♂}$ 32'25	
inferior conj	14197 Aug 06 11:18	28° $\text{♂}$ 11'15	2°36'26	evening max el	14198 Jul 05 12:06	15° $\text{♂}$ 00'57	19°13'04
minimum elong	14197 Aug 06 13:29	28° $\text{♂}$ 04'39	2°35'19	retrograde	14198 Jul 12 10:58	18° $\text{♂}$ 52'20	
min. Earth dist.	14197 Aug 08 12:53	25° $\text{♂}$ 41'36	0.65340 AU	evening set	14198 Jul 16 00:15	17° $\text{♂}$ 39'03	
morning rise	14197 Aug 12 07:35	21° $\text{♂}$ 48'11		inferior conj	14198 Jul 21 10:39	11° $\text{♂}$ 49'51	3°00'23
desc. node	14197 Aug 16 15:32	19° $\text{♂}$ 25'24		minimum elong	14198 Jul 21 12:02	11° $\text{♂}$ 45'22	2°59'21
direct	14197 Aug 18 18:20	19° $\text{♂}$ 09'00		min. Earth dist.	14198 Jul 22 21:46	9° $\text{♂}$ 55'57	0.66947 AU
morning max el	14197 Sep 01 03:53	27° $\text{♂}$ 02'37	27°03'23	morning rise	14198 Jul 26 23:11	5° $\text{♂}$ 24'57	
	14197 Sep 03 22:27	0° $\text{♄}$		direct	14198 Aug 02 01:14	2° $\text{♂}$ 47'12	
	14197 Sep 25 04:55	0° $\text{♂}$		desc. node	14198 Aug 03 12:59	2° $\text{♂}$ 55'32	
morning set	14197 Oct 06 18:29	20° $\text{♂}$ 42'33		morning max el	14198 Aug 14 14:54	10° $\text{♂}$ 17'36	25°54'42
asc. node	14197 Oct 10 19:39	28° $\text{♂}$ 43'01			14198 Aug 30 06:12	0° $\text{♄}$	
max. Earth dist.	14197 Oct 11 00:58	29° $\text{♂}$ 09'58	1.33572 AU		14198 Sep 17 18:46	0° $\text{♂}$	
	14197 Oct 11 10:49	0° $\text{♄}$		morning set	14198 Sep 19 14:20	3° $\text{♂}$ 18'08	
				max. Earth dist.	14198 Sep 23 07:17	10° $\text{♂}$ 15'38	1.35430 AU
superior conj	14197 Oct 15 06:17	7° $\text{♄}$ 55'06	0°40'49	asc. node	14198 Sep 27 16:15	18° $\text{♂}$ 50'36	
minimum elong	14197 Oct 15 04:22	7° $\text{♄}$ 45'00	0°41'00				
evening rise	14197 Oct 22 10:44	23° $\text{♄}$ 15'07		superior conj	14198 Sep 29 00:48	21° $\text{♂}$ 34'45	0°12'38
	14197 Oct 25 16:30	0° $\text{♄}$		minimum elong	14198 Sep 29 00:04	21° $\text{♂}$ 31'01	0°12'47
evening max el	14197 Nov 12 01:46	27° $\text{♄}$ 10'17	21°51'40	behind sun begin	14198 Sep 28 20:19	21° $\text{♂}$ 12'00	
desc. node	14197 Nov 12 11:51	27° $\text{♄}$ 34'36		behind sun end	14198 Sep 29 03:50	21° $\text{♂}$ 50'04	
	14197 Nov 15 09:04	0° $\text{☿}$			14198 Oct 03 03:07	0° $\text{♄}$	
retrograde	14197 Nov 24 12:44	3° $\text{☿}$ 20'28		evening rise	14198 Oct 06 18:38	7° $\text{♄}$ 34'01	
evening set	14197 Nov 27 16:38	2° $\text{☿}$ 58'05			14198 Oct 18 21:36	0° $\text{♄}$	
	14197 Dec 04 18:24	30° $\text{♄}$		evening max el	14198 Oct 25 00:59	7° $\text{♄}$ 42'43	20°23'54
inferior conj	14197 Dec 06 09:59	29° $\text{♄}$ 05'00	-5°50'10	desc. node	14198 Oct 30 09:10	11° $\text{♄}$ 44'34	
minimum elong	14197 Dec 06 05:00	29° $\text{♄}$ 11'58	5°48'38	retrograde	14198 Nov 04 23:38	13° $\text{♄}$ 09'17	
min. Earth dist.	14197 Dec 06 06:16	29° $\text{♄}$ 10'13	0.54510 AU	evening set	14198 Nov 07 04:21	12° $\text{♄}$ 57'08	

inferior conj	14198 Nov 16 02:34	9° $\text{♊}$ 01'36	-4°48'49	desc. node	14199 Oct 17 06:34	23° $\text{♍}$ 42'38	
minimum elong	14198 Nov 15 16:32	9° $\text{♊}$ 16'16	4°45'16	evening set	14199 Oct 18 18:37	23° $\text{♍}$ 32'35	
min. Earth dist.	14198 Nov 17 12:50	8° $\text{♊}$ 11'29	0.54718 AU	inferior conj	14199 Oct 27 08:09	19° $\text{♍}$ 22'37	-3°08'48
morning rise	14198 Nov 24 04:14	5° $\text{♊}$ 00'46		minimum elong	14199 Oct 27 00:12	19° $\text{♍}$ 35'47	3°05'10
direct	14198 Nov 28 18:04	4° $\text{♊}$ 15'39		min. Earth dist.	14199 Oct 29 22:58	17° $\text{♍}$ 38'53	0.55817 AU
morning max el	14198 Dec 12 04:31	10° $\text{♊}$ 50'14	23°46'48	morning rise	14199 Nov 04 03:24	14° $\text{♍}$ 50'35	
asc. node	14198 Dec 24 16:58	27° $\text{♊}$ 14'04		direct	14199 Nov 09 13:34	13° $\text{♍}$ 43'33	
	14198 Dec 26 08:03	0° $\text{♊}$		morning max el	14199 Nov 23 14:34	20° $\text{♍}$ 49'32	25°32'24
morning set	14199 Jan 05 07:13	19° $\text{♊}$ 34'31			14199 Dec 01 12:41	0° $\text{♊}$	
	14199 Jan 10 02:26	0° $\text{♊}$		asc. node	14199 Dec 11 14:02	15° $\text{♊}$ 55'10	
					14199 Dec 18 18:40	0° $\text{♊}$	
superior conj	14199 Jan 12 03:31	4° $\text{♋}$ 27'26	1°34'01	morning set	14199 Dec 20 18:50	4° $\text{♊}$ 15'35	
minimum elong	14199 Jan 12 04:45	4° $\text{♋}$ 34'07	1°34'53				
max. Earth dist.	14199 Jan 14 20:17	10° $\text{♋}$ 15'44	1.32866 AU	superior conj	14199 Dec 27 13:00	19° $\text{♊}$ 07'49	1°37'58
evening rise	14199 Jan 19 19:11	20° $\text{♋}$ 30'45		minimum elong	14199 Dec 27 13:09	19° $\text{♊}$ 08'40	1°38'59
	14199 Jan 24 16:55	0° $\text{♋}$		max. Earth dist.	14199 Dec 28 23:48	22° $\text{♊}$ 19'58	1.31794 AU
desc. node	14199 Jan 26 08:28	3° $\text{♋}$ 01'46			14200 Jan 01 12:36	0° $\text{♋}$	
	14199 Feb 12 11:45	0° $\text{♋}$		evening rise	14200 Jan 03 16:34	4° $\text{♋}$ 33'30	
evening max el	14199 Feb 22 20:59	12° $\text{♋}$ 02'30	27°27'18	desc. node	14200 Jan 13 05:11	22° $\text{♋}$ 53'59	
retrograde	14199 Mar 08 13:32	19° $\text{♋}$ 30'38			14200 Jan 17 09:16	0° $\text{♋}$	
evening set	14199 Mar 15 08:15	17° $\text{♋}$ 02'38		evening max el	14200 Feb 05 07:17	24° $\text{♋}$ 54'31	27°32'34
min. Earth dist.	14199 Mar 19 03:59	13° $\text{♋}$ 37'46	0.64202 AU		14200 Feb 11 19:49	0° $\text{♋}$	
inferior conj	14199 Mar 21 18:14	10° $\text{♋}$ 53'35	-0°15'51	retrograde	14200 Feb 19 04:56	2° $\text{♋}$ 17'41	
minimum elong	14199 Mar 21 18:43	10° $\text{♋}$ 52'19	0°15'45	evening set	14200 Feb 26 02:18	0° $\text{♋}$ 01'00	
transit middle	14199 Mar 21 18:43	10° $\text{♋}$ 52'19	0°15'45		14200 Feb 26 02:55	30° $\text{♋}$	
transit begin	14199 Mar 21 18:12	10° $\text{♋}$ 53'42		min. Earth dist.	14200 Mar 01 20:26	27° $\text{♋}$ 02'15	0.62161 AU
transit end	14199 Mar 21 19:15	10° $\text{♋}$ 50'55		inferior conj	14200 Mar 04 20:19	24° $\text{♋}$ 13'41	-1°30'11
asc. node	14199 Mar 22 13:58	10° $\text{♋}$ 01'51		minimum elong	14200 Mar 04 23:26	24° $\text{♋}$ 06'21	1°28'42
morning rise	14199 Mar 28 07:18	5° $\text{♋}$ 31'46		asc. node	14200 Mar 09 11:26	20° $\text{♋}$ 23'09	
direct	14199 Mar 30 20:01	4° $\text{♋}$ 59'18		morning rise	14200 Mar 11 23:25	19° $\text{♋}$ 09'01	
morning max el	14199 Apr 06 04:58	8° $\text{♋}$ 16'08	17°49'48	direct	14200 Mar 14 05:03	18° $\text{♋}$ 46'31	
	14199 Apr 20 22:59	0° $\text{♋}$		morning max el	14200 Mar 20 22:26	22° $\text{♋}$ 10'45	17°47'33
morning set	14199 Apr 23 04:10	3° $\text{♋}$ 43'56			14200 Mar 27 00:11	0° $\text{♋}$	
desc. node	14199 Apr 24 10:47	5° $\text{♋}$ 52'43		morning set	14200 Apr 05 18:56	16° $\text{♋}$ 37'27	
				desc. node	14200 Apr 11 07:23	26° $\text{♋}$ 19'57	
superior conj	14199 May 06 11:55	25° $\text{♌}$ 44'22	-1°25'06		14200 Apr 13 10:13	0° $\text{♌}$	
minimum elong	14199 May 06 03:41	25° $\text{♌}$ 11'14	1°24'56	superior conj	14200 Apr 17 07:24	6° $\text{♌}$ 36'24	-0°46'14
	14199 May 09 03:48	0° $\text{♌}$		minimum elong	14200 Apr 17 02:58	6° $\text{♌}$ 17'44	0°46'05
max. Earth dist.	14199 May 11 12:07	3° $\text{♌}$ 43'13	1.45206 AU	max. Earth dist.	14200 Apr 24 04:58	17° $\text{♌}$ 57'55	1.43894 AU
evening rise	14199 May 22 05:29	20° $\text{♌}$ 22'16		evening rise	14200 May 01 19:18	29° $\text{♌}$ 58'12	
	14199 May 28 13:39	0° $\text{♌}$			14200 May 01 19:46	0° $\text{♌}$	
asc. node	14199 Jun 18 11:29	28° $\text{♌}$ 39'34			14200 May 22 05:15	0° $\text{♌}$	
evening max el	14199 Jun 18 16:03	28° $\text{♌}$ 51'07	20°09'23	evening max el	14200 Jun 01 14:01	12° $\text{♌}$ 41'15	21°18'39
	14199 Jun 19 21:02	0° $\text{♌}$		asc. node	14200 Jun 05 08:31	15° $\text{♌}$ 55'39	
retrograde	14199 Jun 26 09:44	3° $\text{♌}$ 15'53		retrograde	14200 Jun 10 08:32	17° $\text{♌}$ 47'55	
evening set	14199 Jun 30 08:57	1° $\text{♌}$ 45'20		evening set	14200 Jun 14 18:19	16° $\text{♌}$ 00'38	
	14199 Jul 02 06:17	30° $\text{♌}$		inferior conj	14200 Jun 20 00:07	9° $\text{♌}$ 47'17	3°09'04
inferior conj	14199 Jul 05 15:43	25° $\text{♌}$ 43'17	3°10'37	minimum elong	14200 Jun 19 23:31	9° $\text{♌}$ 49'23	3°07'59
minimum elong	14199 Jul 05 16:06	25° $\text{♌}$ 42'00	3°09'37	min. Earth dist.	14200 Jun 20 07:30	9° $\text{♌}$ 21'33	0.68786 AU
min. Earth dist.	14199 Jul 06 12:39	24° $\text{♌}$ 32'06	0.68105 AU	morning rise	14200 Jun 25 04:31	3° $\text{♌}$ 29'40	
morning rise	14199 Jul 10 22:54	19° $\text{♌}$ 20'45		direct	14200 Jun 30 07:00	1° $\text{♌}$ 16'50	
direct	14199 Jul 16 13:47	16° $\text{♌}$ 52'34		desc. node	14200 Jul 08 07:40	5° $\text{♌}$ 16'22	
desc. node	14199 Jul 21 10:22	18° $\text{♌}$ 21'16		morning max el	14200 Jul 10 12:32	7° $\text{♌}$ 21'07	23°01'23
morning max el	14199 Jul 28 01:25	23° $\text{♌}$ 45'12	24°30'51		14200 Jul 28 03:49	0° $\text{♌}$	
	14199 Aug 02 14:53	0° $\text{♌}$		morning set	14200 Aug 13 20:34	25° $\text{♌}$ 55'05	
	14199 Aug 23 15:19	0° $\text{♌}$			14200 Aug 16 07:12	0° $\text{♌}$	
morning set	14199 Sep 01 16:32	15° $\text{♌}$ 05'53		max. Earth dist.	14200 Aug 18 05:33	3° $\text{♌}$ 17'10	1.40018 AU
max. Earth dist.	14199 Sep 05 06:54	21° $\text{♌}$ 29'17	1.37653 AU				
	14199 Sep 09 21:20	0° $\text{♌}$		superior conj	14200 Aug 26 00:39	17° $\text{♌}$ 06'33	-0°55'22
superior conj	14199 Sep 12 08:16	4° $\text{♍}$ 41'51	-0°20'03	minimum elong	14200 Aug 26 04:49	17° $\text{♌}$ 25'38	0°55'01
minimum elong	14199 Sep 12 09:37	4° $\text{♍}$ 48'22	0°19'49	asc. node	14200 Sep 01 09:23	29° $\text{♌}$ 01'27	
asc. node	14199 Sep 14 12:50	8° $\text{♍}$ 58'05			14200 Sep 01 21:40	0° $\text{♍}$	
evening rise	14199 Sep 20 21:33	21° $\text{♍}$ 38'16		evening rise	14200 Sep 04 16:29	5° $\text{♍}$ 19'33	
	14199 Sep 25 03:49	0° $\text{♍}$			14200 Sep 19 13:43	0° $\text{♍}$	
evening max el	14199 Oct 07 14:30	19° $\text{♍}$ 03'08	19°16'55	evening max el	14200 Sep 20 16:12	1° $\text{♍}$ 10'17	18°31'54
retrograde	14199 Oct 16 21:50	23° $\text{♍}$ 43'03		retrograde	14200 Sep 28 14:27	5° $\text{♍}$ 10'41	

evening set	14200 Sep 30 13:38	4°♍56'39			14201 Aug 25 09:38	0°♊	
desc. node	14200 Oct 04 04:02	3°♍26'11		evening max el	14201 Sep 04 02:06	13°♊56'14	18°07'43
inferior conj	14200 Oct 08 10:25	0°♍26'45	-1°21'31	retrograde	14201 Sep 11 01:23	17°♊29'53	
minimum elong	14200 Oct 08 07:11	0°♍33'01	1°19'46	evening set	14201 Sep 13 07:29	17°♊07'57	
	14200 Oct 09 00:10	30°♋♊		inferior conj	14201 Sep 20 10:09	12°♊17'23	0°11'55
min. Earth dist.	14200 Oct 11 15:29	27°♊58'26	0.57614 AU	minimum elong	14201 Sep 20 10:33	12°♊16'29	0°11'54
morning rise	14200 Oct 15 21:15	25°♊16'54		transit middle	14201 Sep 20 10:33	12°♊16'29	0°11'54
direct	14200 Oct 21 23:26	23°♊43'11		transit begin	14201 Sep 20 08:16	12°♊21'38	
	14200 Nov 03 22:25	0°♍		transit end	14201 Sep 20 12:50	12°♊11'21	
morning max el	14200 Nov 05 06:28	1°♍14'43	26°56'53	desc. node	14201 Sep 21 01:31	11°♊42'35	
	14200 Nov 25 17:01	0°♊		min. Earth dist.	14201 Sep 23 16:17	9°♊22'36	0.59815 AU
asc. node	14200 Nov 28 11:00	5°♊06'58		morning rise	14201 Sep 27 10:19	6°♊34'50	
morning set	14200 Dec 05 04:24	18°♊46'39		direct	14201 Oct 03 22:52	4°♊34'12	
	14200 Dec 10 07:11	0°♊		morning max el	14201 Oct 18 06:05	12°♊23'51	27°46'51
					14201 Nov 01 04:21	0°♍	
superior conj	14200 Dec 12 00:22	3°♊50'02	1°35'53	asc. node	14201 Nov 15 07:52	24°♍41'12	
minimum elong	14200 Dec 11 23:28	3°♊45'05	1°36'54		14201 Nov 17 22:57	0°♊	
max. Earth dist.	14200 Dec 12 07:13	4°♊28'22	1.31224 AU	morning set	14201 Nov 19 10:08	3°♊03'16	
evening rise	14200 Dec 18 20:23	18°♊50'41		max. Earth dist.	14201 Nov 25 15:07	16°♊33'50	1.31184 AU
	14200 Dec 24 07:37	0°♋					
desc. node	14200 Dec 31 01:58	12°♋19'30		superior conj	14201 Nov 26 11:44	18°♊28'48	1°27'56
	14201 Jan 12 02:26	0°♋		minimum elong	14201 Nov 26 10:00	18°♊19'09	1°28'46
evening max el	14201 Jan 18 12:08	7°♋01'37	27°04'05		14201 Dec 01 16:12	0°♊	
retrograde	14201 Feb 01 11:45	14°♋16'15		evening rise	14201 Dec 03 04:31	3°♊17'17	
evening set	14201 Feb 08 05:12	12°♋18'55			14201 Dec 17 05:44	0°♋	
min. Earth dist.	14201 Feb 12 02:28	9°♋37'29	0.59966 AU	desc. node	14201 Dec 17 22:51	1°♋08'21	
inferior conj	14201 Feb 15 07:09	7°♋00'01	-2°53'36	evening max el	14201 Dec 31 09:26	18°♋17'12	26°01'25
minimum elong	14201 Feb 15 13:30	6°♋46'56	2°50'42	retrograde	14202 Jan 14 08:06	25°♋20'44	
morning rise	14201 Feb 23 01:06	2°♋15'22		evening set	14202 Jan 20 13:01	23°♋49'56	
asc. node	14201 Feb 24 08:54	2°♋01'17		min. Earth dist.	14202 Jan 24 22:36	21°♋12'44	0.57829 AU
direct	14201 Feb 25 02:07	1°♋59'16		inferior conj	14202 Jan 27 23:14	19°♋03'20	-4°18'15
morning max el	14201 Mar 04 12:43	5°♋41'47	18°03'57	minimum elong	14202 Jan 28 08:03	18°♋47'35	4°14'51
	14201 Mar 19 22:54	0°♎		morning rise	14202 Feb 05 06:02	14°♋40'11	
morning set	14201 Mar 20 02:39	0°♎17'23		direct	14202 Feb 07 06:57	14°♋26'47	
desc. node	14201 Mar 29 03:54	16°♎52'54		asc. node	14202 Feb 11 06:21	15°♋20'47	
				morning max el	14202 Feb 15 19:52	18°♋38'00	18°40'41
superior conj	14201 Mar 30 02:31	18°♎33'30	-0°07'35		14202 Feb 24 02:46	0°♋	
minimum elong	14201 Mar 30 01:52	18°♎30'39	0°07'43	morning set	14202 Mar 03 22:13	14°♋28'42	
behind sun begin	14201 Mar 29 18:59	18°♎00'03			14202 Mar 11 23:36	0°♎	
behind sun end	14201 Mar 30 08:46	19°♎01'11					
	14201 Apr 05 17:31	0°♌		superior conj	14202 Mar 12 17:42	1°♎25'03	0°26'32
max. Earth dist.	14201 Apr 06 16:54	1°♌37'54	1.42047 AU	minimum elong	14202 Mar 12 19:26	1°♎33'08	0°26'19
evening rise	14201 Apr 12 00:06	10°♌17'46		desc. node	14202 Mar 16 00:22	7°♎27'55	
	14201 Apr 24 20:41	0°♍		max. Earth dist.	14202 Mar 20 00:35	14°♎36'37	1.39875 AU
evening max el	14201 May 15 07:06	26°♍32'05	22°36'48	evening rise	14202 Mar 24 01:48	21°♎33'00	
	14201 May 19 06:17	0°♌			14202 Mar 29 05:31	0°♌	
asc. node	14201 May 23 05:38	2°♌05'06			14202 Apr 18 21:31	0°♍	
retrograde	14201 May 25 05:42	2°♌23'11		evening max el	14202 Apr 27 21:27	10°♍24'45	23°58'03
evening set	14201 May 30 02:38	0°♌20'32		retrograde	14202 May 08 23:50	16°♍55'40	
	14201 May 30 11:55	30°♋♍		asc. node	14202 May 10 02:52	16°♍50'02	
inferior conj	14201 Jun 04 09:50	23°♍58'05	2°56'49	evening set	14202 May 14 08:20	14°♍39'51	
minimum elong	14201 Jun 04 08:24	24°♍03'04	2°55'35	min. Earth dist.	14202 May 19 00:40	9°♍13'24	0.68717 AU
min. Earth dist.	14201 Jun 04 04:15	24°♍17'30	0.68985 AU	inferior conj	14202 May 19 18:54	8°♍11'18	2°34'16
morning rise	14201 Jun 09 14:01	17°♍47'06		minimum elong	14202 May 19 16:55	8°♍18'05	2°32'54
direct	14201 Jun 14 03:50	15°♍53'07		morning rise	14202 May 25 01:31	2°♍08'17	
morning max el	14201 Jun 23 02:52	21°♍05'36	21°34'58	direct	14202 May 29 03:01	0°♍34'40	
desc. node	14201 Jun 25 04:50	23°♍17'51		morning max el	14202 Jun 05 23:15	5°♍00'18	20°18'16
	14201 Jun 30 16:47	0°♌		desc. node	14202 Jun 12 01:52	12°♍07'24	
	14201 Jul 21 09:03	0°♎			14202 Jun 24 16:26	0°♌	
morning set	14201 Jul 24 23:55	5°♎40'18		morning set	14202 Jul 04 06:52	14°♌33'38	
max. Earth dist.	14201 Jul 31 08:30	15°♎55'52	1.42250 AU	max. Earth dist.	14202 Jul 13 18:16	29°♌25'35	1.44091 AU
					14202 Jul 14 02:52	0°♎	
superior conj	14201 Aug 07 21:34	28°♎39'43	-1°29'53				
minimum elong	14201 Aug 08 04:21	29°♎09'08	1°29'41	superior conj	14202 Jul 19 19:18	9°♎13'16	-1°58'08
	14201 Aug 08 16:04	0°♏		minimum elong	14202 Jul 20 02:18	9°♎42'04	1°58'29
evening rise	14201 Aug 18 23:35	18°♏28'20			14202 Aug 01 01:59	0°♏	
asc. node	14201 Aug 19 05:57	18°♏57'22		evening rise	14202 Aug 01 13:56	0°♏51'42	

asc. node	14202 Aug 06 02:32	8° $\cap$ 40'58		superior conj	14203 Jun 29 18:16	18° $\ominus$ 50'44	-2°12'55
evening max el	14202 Aug 18 16:01	27° $\cap$ 10'02	18°02'56	minimum elong	14203 Jun 29 20:31	18° $\ominus$ 59'36	2°13'54
	14202 Aug 22 15:17	0° $\underline{\cap}$			14203 Jul 06 17:39	0° $\Omega$	
retrograde	14202 Aug 25 03:02	0° $\underline{\cap}$ 31'09		evening rise	14203 Jul 14 06:28	12° $\Omega$ 18'06	
evening set	14202 Aug 27 17:23	29° $\cap$ 57'41		asc. node	14203 Jul 23 23:12	28° $\Omega$ 07'12	
	14202 Aug 27 15:09	30° $\cap$			14203 Jul 25 04:08	0° $\cap$	
inferior conj	14202 Sep 03 04:11	24° $\cap$ 48'01	1°24'09	evening max el	14203 Aug 02 06:21	10° $\cap$ 42'18	18°16'29
minimum elong	14202 Sep 03 06:19	24° $\cap$ 42'30	1°23'15	retrograde	14203 Aug 08 15:05	14° $\cap$ 05'00	
min. Earth dist.	14202 Sep 06 02:20	21° $\cap$ 48'29	0.62108 AU	evening set	14203 Aug 11 14:01	13° $\cap$ 17'20	
desc. node	14202 Sep 07 23:03	20° $\cap$ 04'44		inferior conj	14203 Aug 17 12:29	7° $\cap$ 50'41	2°15'24
morning rise	14202 Sep 09 16:49	18° $\cap$ 42'26		minimum elong	14203 Aug 17 14:54	7° $\cap$ 43'42	2°14'15
direct	14202 Sep 16 09:11	16° $\cap$ 20'13		min. Earth dist.	14203 Aug 19 22:02	5° $\cap$ 05'56	0.64245 AU
morning max el	14202 Sep 30 12:03	24° $\cap$ 19'23	27°57'51	morning rise	14203 Aug 23 14:16	1° $\cap$ 31'42	
	14202 Oct 05 15:36	0° $\underline{\cap}$		desc. node	14203 Aug 25 20:35	0° $\cap$ 02'22	
	14202 Oct 25 13:39	0° $\cap$			14203 Aug 25 22:26	30° $\cap$ $\Omega$	
asc. node	14202 Nov 02 04:37	14° $\cap$ 31'01		direct	14203 Aug 30 04:21	28° $\Omega$ 56'17	
morning set	14202 Nov 03 09:58	17° $\cap$ 00'13			14203 Sep 03 17:54	0° $\cap$	
max. Earth dist.	14202 Nov 08 19:46	28° $\cap$ 27'35	1.31684 AU	morning max el	14203 Sep 12 21:59	6° $\cap$ 55'02	27°32'16
	14202 Nov 09 12:42	0° $\sphericalcap$			14203 Sep 30 15:53	0° $\underline{\cap}$	
					14203 Oct 17 19:04	0° $\cap$	
superior conj	14202 Nov 10 21:16	2° $\sphericalcap$ 58'43	1°14'10	morning set	14203 Oct 18 01:27	0° $\cap$ 31'33	
minimum elong	14202 Nov 10 19:02	2° $\sphericalcap$ 46'27	1°14'45	asc. node	14203 Oct 20 01:17	4° $\cap$ 31'03	
evening rise	14202 Nov 17 15:02	17° $\sphericalcap$ 48'20		max. Earth dist.	14203 Oct 22 17:36	10° $\cap$ 02'21	1.32731 AU
	14202 Nov 23 12:29	0° $\ominus$					
desc. node	14202 Dec 04 19:52	19° $\ominus$ 06'52		superior conj	14203 Oct 26 02:53	17° $\cap$ 13'57	0°54'38
evening max el	14202 Dec 12 22:47	28° $\ominus$ 44'34	24°31'25	minimum elong	14203 Oct 26 00:40	17° $\cap$ 02'00	0°54'57
	14202 Dec 14 07:49	0° $\approx$			14203 Nov 01 00:16	0° $\sphericalcap$	
retrograde	14202 Dec 26 15:37	5° $\approx$ 34'24		evening rise	14203 Nov 02 02:05	2° $\sphericalcap$ 18'44	
evening set	14202 Dec 31 22:00	4° $\approx$ 33'25			14203 Nov 17 03:01	0° $\ominus$	
min. Earth dist.	14203 Jan 06 10:33	1° $\approx$ 43'45	0.56018 AU	desc. node	14203 Nov 21 17:02	5° $\ominus$ 56'00	
inferior conj	14203 Jan 08 18:31	0° $\approx$ 16'40	-5°27'57	evening max el	14203 Nov 24 08:35	8° $\ominus$ 44'27	22°48'57
minimum elong	14203 Jan 09 02:04	0° $\approx$ 04'53	5°25'41	retrograde	14203 Dec 07 10:11	15° $\ominus$ 13'29	
	14203 Jan 09 05:12	30° $\cap$ $\ominus$		evening set	14203 Dec 11 09:08	14° $\ominus$ 39'24	
morning rise	14203 Jan 17 08:08	26° $\ominus$ 14'09		min. Earth dist.	14203 Dec 18 17:19	11° $\ominus$ 18'05	0.54823 AU
direct	14203 Jan 19 16:46	25° $\ominus$ 59'12		inferior conj	14203 Dec 19 19:03	10° $\ominus$ 41'32	-5°58'40
	14203 Jan 28 19:07	0° $\approx$		minimum elong	14203 Dec 19 19:23	10° $\ominus$ 41'04	5°57'36
asc. node	14203 Jan 29 03:44	0° $\approx$ 19'29		morning rise	14203 Dec 28 07:01	6° $\ominus$ 53'10	
morning max el	14203 Jan 29 15:45	0° $\approx$ 47'49	19°39'50	direct	14203 Dec 31 08:43	6° $\ominus$ 31'24	
morning set	14203 Feb 16 01:47	29° $\approx$ 00'16		morning max el	14204 Jan 11 21:17	12° $\ominus$ 02'29	21°02'12
	14203 Feb 16 13:38	0° $\sphericalcap$		asc. node	14204 Jan 16 01:04	16° $\ominus$ 41'24	
					14204 Jan 24 12:10	0° $\approx$	
superior conj	14203 Feb 24 00:31	14° $\sphericalcap$ 58'58	0°54'11	morning set	14204 Jan 31 10:20	13° $\approx$ 42'11	
minimum elong	14203 Feb 24 03:10	15° $\sphericalcap$ 11'59	0°54'09				
max. Earth dist.	14203 Mar 02 07:07	26° $\sphericalcap$ 58'26	1.37616 AU	superior conj	14204 Feb 07 18:43	29° $\approx$ 02'38	1°14'56
desc. node	14203 Mar 02 20:52	28° $\sphericalcap$ 01'45		minimum elong	14204 Feb 07 21:15	29° $\approx$ 15'38	1°15'16
	14203 Mar 03 22:48	0° $\cap$			14204 Feb 08 05:53	0° $\sphericalcap$	
evening rise	14203 Mar 06 00:08	3° $\cap$ 41'04		max. Earth dist.	14204 Feb 12 16:33	8° $\sphericalcap$ 55'32	1.35493 AU
	14203 Mar 22 06:52	0° $\ominus$		evening rise	14204 Feb 16 15:58	16° $\sphericalcap$ 32'01	
evening max el	14203 Apr 10 11:04	24° $\ominus$ 18'40	25°15'31	desc. node	14204 Feb 17 17:25	18° $\sphericalcap$ 29'55	
	14203 Apr 17 18:32	0° $\cap$			14204 Feb 24 05:55	0° $\cap$	
retrograde	14203 Apr 22 13:45	1° $\cap$ 19'53			14204 Mar 15 17:04	0° $\ominus$	
	14203 Apr 26 22:08	30° $\cap$ $\ominus$		evening max el	14204 Mar 23 00:44	8° $\ominus$ 07'53	26°22'05
asc. node	14203 Apr 27 00:11	29° $\ominus$ 56'45		retrograde	14204 Apr 04 22:39	15° $\ominus$ 28'20	
evening set	14203 Apr 28 09:49	28° $\ominus$ 53'59		evening set	14204 Apr 11 05:22	12° $\ominus$ 56'40	
min. Earth dist.	14203 May 02 18:36	24° $\ominus$ 03'49	0.67995 AU	asc. node	14204 Apr 12 21:35	11° $\ominus$ 24'25	
inferior conj	14203 May 04 01:29	22° $\ominus$ 23'21	2°01'18	min. Earth dist.	14204 Apr 15 07:54	8° $\ominus$ 41'41	0.66830 AU
minimum elong	14203 May 03 23:19	22° $\ominus$ 30'22	1°59'54	inferior conj	14204 Apr 17 03:27	6° $\ominus$ 29'03	1°17'20
morning rise	14203 May 09 13:11	16° $\ominus$ 29'40		minimum elong	14204 Apr 17 01:42	6° $\ominus$ 34'25	1°16'11
direct	14203 May 13 03:03	15° $\ominus$ 16'08		morning rise	14204 Apr 22 22:57	0° $\ominus$ 46'18	
morning max el	14203 May 20 03:12	19° $\ominus$ 05'57	19°15'32		14204 Apr 24 19:56	30° $\cap$ $\cap$	
	14203 May 28 20:57	0° $\cap$		direct	14204 Apr 26 02:05	29° $\cap$ 51'08	
desc. node	14203 May 29 22:47	1° $\cap$ 32'22			14204 Apr 27 08:36	0° $\ominus$	
greatest brilliancy	14203 Jun 01 22:14	5° $\cap$ 54'00	-0.7m	morning max el	14204 May 02 14:05	3° $\ominus$ 18'25	18°28'53
morning set	14203 Jun 13 10:05	23° $\cap$ 22'37		desc. node	14204 May 15 19:37	21° $\ominus$ 22'55	
	14203 Jun 17 17:02	0° $\ominus$			14204 May 21 07:31	0° $\cap$	
max. Earth dist.	14203 Jun 26 10:12	13° $\ominus$ 34'59	1.45340 AU	morning set	14204 May 23 06:25	3° $\cap$ 04'52	



superior conj	14204 Jun 08 03:26	27° $\Pi$ 57'56	-2°08'24	minimum elong	14205 May 18 06:31	6° $\Pi$ 44'10	1°44'54
minimum elong	14204 Jun 07 21:58	27° $\Pi$ 36'36	2°09'14	max. Earth dist.	14205 May 22 01:43	12° $\Pi$ 43'01	1.45656 AU
max. Earth dist.	14204 Jun 08 05:42	28° $\Pi$ 06'46	1.45872 AU		14205 Jun 02 05:03	0° $\mathfrak{G}$	
	14204 Jun 09 10:43	0° $\mathfrak{G}$		evening rise	14205 Jun 03 17:15	2° $\mathfrak{G}$ 19'16	
evening rise	14204 Jun 23 22:20	22° $\mathfrak{G}$ 42'57		greatest brilliancy	14205 Jun 17 08:22	22° $\mathfrak{G}$ 58'23	-0.7m
	14204 Jun 28 13:08	0° $\Omega$			14205 Jun 22 06:39	0° $\Omega$	
greatest brilliancy	14204 Jul 02 17:22	6° $\Omega$ 32'41	-0.8m	asc. node	14205 Jun 26 16:50	5° $\Omega$ 40'04	
asc. node	14204 Jul 09 19:58	17° $\Omega$ 09'49		evening max el	14205 Jun 29 01:19	8° $\Omega$ 13'56	19°35'16
evening max el	14204 Jul 15 18:11	24° $\Omega$ 25'40	18°47'37	retrograde	14205 Jul 06 07:33	12° $\Omega$ 18'45	
retrograde	14204 Jul 22 09:38	28° $\Omega$ 03'18		evening set	14205 Jul 10 00:53	10° $\Omega$ 58'16	
evening set	14204 Jul 25 17:29	26° $\Omega$ 59'41		inferior conj	14205 Jul 15 09:22	5° $\Omega$ 03'20	3°06'17
inferior conj	14204 Jul 31 07:18	21° $\Omega$ 18'06	2°48'26	minimum elong	14205 Jul 15 10:20	5° $\Omega$ 00'08	3°05'16
minimum elong	14204 Jul 31 09:10	21° $\Omega$ 12'13	2°47'21	min. Earth dist.	14205 Jul 16 14:24	3° $\Omega$ 26'52	0.67488 AU
min. Earth dist.	14204 Aug 02 02:38	19° $\Omega$ 02'43	0.66066 AU		14205 Jul 19 10:20	30° $\mathfrak{R}$ $\mathfrak{G}$	
morning rise	14204 Aug 05 23:59	14° $\Omega$ 53'30		morning rise	14205 Jul 20 19:17	28° $\mathfrak{G}$ 38'45	
desc. node	14204 Aug 11 18:05	12° $\Omega$ 15'16		direct	14205 Jul 26 16:43	26° $\mathfrak{G}$ 04'09	
direct	14204 Aug 12 07:15	12° $\Omega$ 14'09		desc. node	14205 Jul 29 15:33	26° $\mathfrak{G}$ 36'59	
morning max el	14204 Aug 25 09:25	19° $\Omega$ 59'55	26°36'50		14205 Aug 04 05:02	0° $\Omega$	
	14204 Sep 02 23:13	0° $\mathfrak{M}$		morning max el	14205 Aug 07 20:18	3° $\Omega$ 21'07	25°20'22
	14204 Sep 22 18:04	0° $\mathfrak{L}$			14205 Aug 28 04:34	0° $\mathfrak{M}$	
morning set	14204 Sep 30 05:36	13° $\mathfrak{L}$ 30'28		morning set	14205 Sep 12 18:27	25° $\mathfrak{M}$ 46'41	
max. Earth dist.	14204 Oct 04 05:54	21° $\mathfrak{L}$ 16'57	1.34303 AU		14205 Sep 15 02:07	0° $\mathfrak{L}$	
asc. node	14204 Oct 05 21:53	24° $\mathfrak{L}$ 37'05		max. Earth dist.	14205 Sep 16 08:28	2° $\mathfrak{L}$ 20'54	1.36332 AU
	14204 Oct 08 13:02	0° $\mathfrak{M}$					
superior conj	14204 Oct 09 02:17	1° $\mathfrak{M}$ 08'41	0°29'30	superior conj	14205 Sep 22 16:28	14° $\mathfrak{L}$ 34'42	-0°00'46
minimum elong	14204 Oct 09 00:46	1° $\mathfrak{M}$ 00'46	0°29'40	minimum elong	14205 Sep 22 16:30	14° $\mathfrak{L}$ 34'53	0°00'36
evening rise	14204 Oct 16 11:45	16° $\mathfrak{M}$ 43'39		behind sun begin	14205 Sep 22 10:09	14° $\mathfrak{L}$ 03'19	
	14204 Oct 23 02:16	0° $\mathfrak{J}$		behind sun end	14205 Sep 22 22:51	15° $\mathfrak{L}$ 06'30	
evening max el	14204 Nov 05 00:28	18° $\mathfrak{J}$ 55'26	21°12'04	asc. node	14205 Sep 22 18:26	14° $\mathfrak{L}$ 44'31	
desc. node	14204 Nov 07 14:18	21° $\mathfrak{J}$ 12'09			14205 Sep 30 06:45	0° $\mathfrak{M}$	
retrograde	14204 Nov 16 21:20	24° $\mathfrak{J}$ 49'02		evening rise	14205 Sep 30 17:48	0° $\mathfrak{M}$ 56'21	
evening set	14204 Nov 19 13:31	24° $\mathfrak{J}$ 32'19		evening max el	14205 Oct 18 05:43	29° $\mathfrak{M}$ 46'54	19°52'48
inferior conj	14204 Nov 28 10:28	20° $\mathfrak{J}$ 39'25	-5°30'49		14205 Oct 18 11:01	0° $\mathfrak{J}$	
minimum elong	14204 Nov 28 02:25	20° $\mathfrak{J}$ 50'46	5°28'24	desc. node	14205 Oct 25 11:40	4° $\mathfrak{J}$ 27'49	
min. Earth dist.	14204 Nov 28 23:08	20° $\mathfrak{J}$ 21'31	0.54481 AU	retrograde	14205 Oct 28 11:42	4° $\mathfrak{J}$ 53'27	
morning rise	14204 Dec 06 15:51	16° $\mathfrak{J}$ 48'52		evening set	14205 Oct 30 11:04	4° $\mathfrak{J}$ 42'57	
direct	14204 Dec 10 16:07	16° $\mathfrak{J}$ 14'15		inferior conj	14205 Nov 08 07:07	0° $\mathfrak{J}$ 42'40	-4°09'15
morning max el	14204 Dec 23 13:33	22° $\mathfrak{J}$ 27'34	22°43'49	minimum elong	14205 Nov 07 21:17	0° $\mathfrak{J}$ 57'43	4°05'19
	14204 Dec 30 01:42	0° $\mathfrak{Z}$			14205 Nov 09 10:51	30° $\mathfrak{R}$ $\mathfrak{M}$	
asc. node	14205 Jan 01 22:18	4° $\mathfrak{Z}$ 09'17		min. Earth dist.	14205 Nov 10 07:14	29° $\mathfrak{M}$ 28'57	0.55078 AU
morning set	14205 Jan 14 21:32	28° $\mathfrak{Z}$ 27'46		morning rise	14205 Nov 16 06:04	26° $\mathfrak{M}$ 29'48	
	14205 Jan 15 14:52	0° $\approx$		direct	14205 Nov 21 04:53	25° $\mathfrak{M}$ 35'56	
					14205 Dec 02 03:43	0° $\mathfrak{J}$	
superior conj	14205 Jan 21 20:55	13° $\approx$ 26'33	1°28'55	morning max el	14205 Dec 04 23:08	2° $\mathfrak{J}$ 25'34	24°33'05
minimum elong	14205 Jan 21 22:43	13° $\approx$ 36'10	1°29'37	asc. node	14205 Dec 19 19:25	22° $\mathfrak{J}$ 26'57	
max. Earth dist.	14205 Jan 25 08:26	20° $\approx$ 46'09	1.33701 AU		14205 Dec 23 22:41	0° $\mathfrak{Z}$	
evening rise	14205 Jan 29 21:47	29° $\approx$ 57'04		morning set	14205 Dec 30 09:28	13° $\mathfrak{Z}$ 11'20	
	14205 Jan 29 22:23	0° $\mathfrak{H}$					
desc. node	14205 Feb 03 14:00	8° $\mathfrak{H}$ 48'13		superior conj	14206 Jan 06 04:23	28° $\mathfrak{Z}$ 02'34	1°36'27
	14205 Feb 16 07:56	0° $\mathfrak{Y}$		minimum elong	14206 Jan 06 05:10	28° $\mathfrak{Z}$ 06'50	1°37'23
evening max el	14205 Mar 05 14:14	21° $\mathfrak{Y}$ 43'48	27°10'26		14206 Jan 07 01:52	0° $\approx$	
retrograde	14205 Mar 19 01:43	29° $\mathfrak{Y}$ 12'37		max. Earth dist.	14206 Jan 08 07:55	2° $\approx$ 43'14	1.32347 AU
evening set	14205 Mar 25 16:59	26° $\mathfrak{Y}$ 41'04		evening rise	14206 Jan 13 14:17	13° $\approx$ 47'56	
min. Earth dist.	14205 Mar 29 14:37	22° $\mathfrak{Y}$ 58'59	0.65261 AU	desc. node	14206 Jan 21 10:40	28° $\approx$ 51'36	
asc. node	14205 Mar 30 19:04	21° $\mathfrak{Y}$ 40'04			14206 Jan 22 01:58	0° $\mathfrak{H}$	
inferior conj	14205 Mar 31 22:26	20° $\mathfrak{Y}$ 22'55	0°21'40		14206 Feb 11 10:19	0° $\mathfrak{Y}$	
minimum elong	14205 Mar 31 21:51	20° $\mathfrak{Y}$ 24'35	0°21'10	evening max el	14206 Feb 16 02:23	4° $\mathfrak{Y}$ 55'50	27°33'26
morning rise	14205 Apr 07 04:24	14° $\mathfrak{Y}$ 52'54		retrograde	14206 Mar 01 22:00	12° $\mathfrak{Y}$ 23'18	
direct	14205 Apr 09 21:53	14° $\mathfrak{Y}$ 13'16		evening set	14206 Mar 08 18:19	9° $\mathfrak{Y}$ 59'11	
morning max el	14205 Apr 16 05:49	17° $\mathfrak{Y}$ 30'43	17°59'05	min. Earth dist.	14206 Mar 12 12:56	6° $\mathfrak{Y}$ 46'04	0.63358 AU
	14205 Apr 25 13:15	0° $\mathfrak{X}$		inferior conj	14206 Mar 15 07:40	3° $\mathfrak{Y}$ 58'04	-0°46'02
desc. node	14205 May 02 16:21	11° $\mathfrak{X}$ 31'55		minimum elong	14206 Mar 15 09:10	3° $\mathfrak{Y}$ 54'18	0°45'23
morning set	14205 May 04 06:21	14° $\mathfrak{X}$ 07'48		asc. node	14206 Mar 17 16:33	1° $\mathfrak{Y}$ 40'27	
	14205 May 14 00:55	0° $\mathfrak{I}$			14206 Mar 19 18:18	30° $\mathfrak{R}$ $\mathfrak{H}$	
				morning rise	14206 Mar 22 02:31	28° $\mathfrak{H}$ 43'12	
superior conj	14205 May 18 15:32	7° $\mathfrak{I}$ 19'48	-1°44'48	direct	14206 Mar 24 11:51	28° $\mathfrak{H}$ 15'33	
					14206 Mar 29 03:23	0° $\mathfrak{Y}$	

morning max el	14206 Mar 30 23:33	1° $\Upsilon$ 34'33	17°46'35	desc. node	14207 Apr 06 09:30	22° $\Upsilon$ 23'47	
morning set	14206 Apr 16 08:41	26° $\Upsilon$ 26'39					
	14206 Apr 18 10:22	0° $\mathcal{B}$		superior conj	14207 Apr 10 03:17	28° $\Upsilon$ 54'33	-0°29'29
desc. node	14206 Apr 19 12:58	1° $\mathcal{B}$ 53'54		minimum elong	14207 Apr 10 00:36	28° $\Upsilon$ 42'57	0°29'28
					14207 Apr 10 18:33	0° $\mathcal{B}$	
superior conj	14206 Apr 28 21:32	17° $\mathcal{B}$ 34'23	-1°09'00	max. Earth dist.	14207 Apr 17 11:09	11° $\mathcal{B}$ 11'22	1.43170 AU
minimum elong	14206 Apr 28 14:43	17° $\mathcal{B}$ 06'28	1°08'47	evening rise	14207 Apr 23 23:19	21° $\mathcal{B}$ 36'13	
max. Earth dist.	14206 May 04 20:05	27° $\mathcal{B}$ 09'19	1.44722 AU		14207 Apr 29 09:51	0° $\Pi$	
	14206 May 06 15:11	0° $\Pi$			14207 May 20 16:36	0° $\mathcal{E}$	
evening rise	14206 May 14 04:16	11° $\Pi$ 43'58		evening max el	14207 May 25 22:34	5° $\mathcal{E}$ 55'24	21°51'07
	14206 May 26 08:10	0° $\mathcal{E}$		asc. node	14207 May 31 10:55	10° $\mathcal{E}$ 17'26	
evening max el	14206 Jun 12 02:44	22° $\mathcal{E}$ 04'36	20°37'30	retrograde	14207 Jun 04 04:39	11° $\mathcal{E}$ 20'24	
asc. node	14206 Jun 13 13:49	23° $\mathcal{E}$ 27'33		evening set	14207 Jun 08 19:10	9° $\mathcal{E}$ 26'24	
retrograde	14206 Jun 20 06:30	26° $\mathcal{E}$ 46'29		inferior conj	14207 Jun 14 01:20	3° $\mathcal{E}$ 09'09	3°05'06
evening set	14206 Jun 24 10:04	25° $\mathcal{E}$ 08'57		minimum elong	14207 Jun 14 00:21	3° $\mathcal{E}$ 12'34	3°03'58
inferior conj	14206 Jun 29 16:08	19° $\mathcal{E}$ 02'04	3°11'18	min. Earth dist.	14207 Jun 14 03:11	3° $\mathcal{E}$ 02'40	0.68939 AU
minimum elong	14206 Jun 29 16:05	19° $\mathcal{E}$ 02'14	3°10'16		14207 Jun 16 09:07	30° $\mathcal{R}$ $\Pi$	
min. Earth dist.	14206 Jun 30 07:19	18° $\mathcal{E}$ 09'43	0.68455 AU	morning rise	14207 Jun 19 05:20	26° $\Pi$ 54'18	
morning rise	14206 Jul 04 21:49	12° $\mathcal{E}$ 41'12		direct	14207 Jun 24 02:32	24° $\Pi$ 49'00	
direct	14206 Jul 10 07:35	10° $\mathcal{E}$ 18'40		desc. node	14207 Jul 03 10:05	0° $\mathcal{E}$ 09'21	
desc. node	14206 Jul 16 12:52	12° $\mathcal{E}$ 43'49			14207 Jul 03 06:16	0° $\mathcal{E}$	
morning max el	14206 Jul 21 06:38	16° $\mathcal{E}$ 51'54	23°52'49	morning max el	14207 Jul 03 18:36	0° $\mathcal{E}$ 30'30	22°23'42
	14206 Aug 01 04:18	0° $\mathcal{Q}$			14207 Jul 25 23:38	0° $\mathcal{Q}$	
	14206 Aug 21 04:43	0° $\mathcal{P}$		morning set	14207 Aug 06 05:09	17° $\mathcal{Q}$ 31'26	
morning set	14206 Aug 25 11:39	7° $\mathcal{P}$ 10'12		max. Earth dist.	14207 Aug 11 06:32	25° $\mathcal{Q}$ 52'39	1.41009 AU
max. Earth dist.	14206 Aug 29 06:19	13° $\mathcal{P}$ 43'24	1.38657 AU		14207 Aug 13 16:46	0° $\mathcal{P}$	
superior conj	14206 Sep 05 18:00	27° $\mathcal{P}$ 24'34	-0°34'52	superior conj	14207 Aug 19 02:39	9° $\mathcal{P}$ 28'30	-1°10'23
minimum elong	14206 Sep 05 20:29	27° $\mathcal{P}$ 36'18	0°34'35	minimum elong	14207 Aug 19 08:02	9° $\mathcal{P}$ 52'38	1°10'03
	14206 Sep 07 02:43	0° $\mathcal{A}$		asc. node	14207 Aug 27 11:32	24° $\mathcal{P}$ 50'52	
asc. node	14206 Sep 09 14:59	4° $\mathcal{A}$ 50'16		evening rise	14207 Aug 29 08:03	28° $\mathcal{P}$ 19'30	
evening rise	14206 Sep 14 17:40	14° $\mathcal{A}$ 51'02			14207 Aug 30 05:31	0° $\mathcal{A}$	
	14206 Sep 22 19:28	0° $\mathcal{M}$		evening max el	14207 Sep 14 06:36	23° $\mathcal{A}$ 52'18	18°19'08
evening max el	14206 Oct 01 00:53	11° $\mathcal{M}$ 27'41	18°55'11	retrograde	14207 Sep 21 17:31	27° $\mathcal{A}$ 39'26	
retrograde	14206 Oct 09 16:49	15° $\mathcal{M}$ 48'54		evening set	14207 Sep 23 19:31	27° $\mathcal{A}$ 22'23	
evening set	14206 Oct 11 13:54	15° $\mathcal{M}$ 37'26		desc. node	14207 Sep 29 06:33	24° $\mathcal{A}$ 23'06	
desc. node	14206 Oct 12 09:05	15° $\mathcal{M}$ 25'53		inferior conj	14207 Oct 01 08:26	22° $\mathcal{A}$ 43'17	-0°39'27
inferior conj	14206 Oct 19 20:52	11° $\mathcal{M}$ 19'38	-2°22'33	minimum elong	14207 Oct 01 06:58	22° $\mathcal{A}$ 46'19	0°38'33
minimum elong	14206 Oct 19 14:54	11° $\mathcal{M}$ 30'11	2°19'36	min. Earth dist.	14207 Oct 04 15:15	20° $\mathcal{A}$ 01'27	0.58522 AU
min. Earth dist.	14206 Oct 22 19:46	9° $\mathcal{M}$ 15'04	0.56515 AU	morning rise	14207 Oct 08 14:58	17° $\mathcal{A}$ 18'49	
morning rise	14206 Oct 27 12:52	6° $\mathcal{M}$ 31'44		direct	14207 Oct 14 22:25	15° $\mathcal{A}$ 33'33	
direct	14206 Nov 02 06:46	5° $\mathcal{M}$ 13'20		morning max el	14207 Oct 29 05:51	23° $\mathcal{A}$ 12'48	27°22'58
morning max el	14206 Nov 16 10:48	12° $\mathcal{M}$ 30'59	26°11'52		14207 Nov 04 08:08	0° $\mathcal{M}$	
	14206 Nov 30 01:57	0° $\mathcal{X}$			14207 Nov 23 04:16	0° $\mathcal{X}$	
asc. node	14206 Dec 06 16:26	11° $\mathcal{X}$ 21'44		asc. node	14207 Nov 23 13:19	0° $\mathcal{X}$ 43'50	
morning set	14206 Dec 14 20:22	27° $\mathcal{X}$ 48'00		morning set	14207 Nov 29 04:32	12° $\mathcal{X}$ 13'20	
	14206 Dec 15 20:48	0° $\mathcal{Z}$					
				superior conj	14207 Dec 06 02:26	27° $\mathcal{X}$ 25'04	1°33'14
superior conj	14206 Dec 21 14:52	12° $\mathcal{Z}$ 43'57	1°37'49	minimum elong	14207 Dec 06 01:10	27° $\mathcal{X}$ 17'55	1°34'11
minimum elong	14206 Dec 21 14:34	12° $\mathcal{Z}$ 42'16	1°38'51	max. Earth dist.	14207 Dec 05 21:40	26° $\mathcal{X}$ 58'25	1.31142 AU
max. Earth dist.	14206 Dec 22 13:25	14° $\mathcal{Z}$ 49'21	1.31487 AU		14207 Dec 07 06:08	0° $\mathcal{Z}$	
evening rise	14206 Dec 28 14:40	27° $\mathcal{Z}$ 57'21		evening rise	14207 Dec 12 20:35	12° $\mathcal{Z}$ 19'15	
	14206 Dec 29 14:12	0° $\approx$			14207 Dec 21 17:26	0° $\approx$	
desc. node	14207 Jan 08 07:24	18° $\approx$ 33'16		desc. node	14207 Dec 26 04:13	7° $\approx$ 44'44	
	14207 Jan 15 08:39	0° $\mathcal{H}$		evening max el	14208 Jan 11 12:59	29° $\approx$ 17'07	26°41'31
evening max el	14207 Jan 29 10:56	17° $\mathcal{H}$ 30'55	27°24'54		14208 Jan 12 07:29	0° $\mathcal{H}$	
retrograde	14207 Feb 12 09:58	24° $\mathcal{H}$ 50'25		retrograde	14208 Jan 25 12:10	6° $\mathcal{H}$ 26'24	
evening set	14207 Feb 19 06:22	22° $\mathcal{H}$ 41'23		evening set	14208 Feb 01 01:38	4° $\mathcal{H}$ 39'43	
min. Earth dist.	14207 Feb 23 01:13	19° $\mathcal{H}$ 51'00	0.61233 AU	min. Earth dist.	14208 Feb 05 02:47	2° $\mathcal{H}$ 02'05	0.59039 AU
inferior conj	14207 Feb 26 03:47	17° $\mathcal{H}$ 05'21	-2°04'46		14208 Feb 07 18:07	30° $\mathcal{R}$ $\approx$	
minimum elong	14207 Feb 26 08:14	16° $\mathcal{H}$ 55'24	2°02'38	inferior conj	14208 Feb 08 07:04	29° $\approx$ 34'45	-3°30'00
asc. node	14207 Mar 04 14:03	12° $\mathcal{H}$ 29'17		minimum elong	14208 Feb 08 14:42	29° $\approx$ 19'58	3°26'44
morning rise	14207 Mar 05 13:10	12° $\mathcal{H}$ 08'30		morning rise	14208 Feb 16 06:54	24° $\approx$ 58'59	
direct	14207 Mar 07 16:25	11° $\mathcal{H}$ 49'09		direct	14208 Feb 18 07:21	24° $\approx$ 44'22	
morning max el	14207 Mar 14 16:04	15° $\mathcal{H}$ 20'08	17°52'05	asc. node	14208 Feb 19 11:29	24° $\approx$ 49'29	
	14207 Mar 24 20:42	0° $\mathcal{Y}$		morning max el	14208 Feb 26 03:46	28° $\approx$ 37'33	18°16'57
morning set	14207 Mar 30 07:24	9° $\mathcal{Y}$ 42'19			14208 Feb 27 11:06	0° $\mathcal{H}$	

morning set	14208 Mar 12 20:46	23° $\text{H}$ 37'35		morning max el	14209 Feb 08 06:38	11° $\approx$ 14'52	19°03'08
	14208 Mar 16 05:36	0° $\text{Y}$			14209 Feb 20 17:34	0° $\text{H}$	
				morning set	14209 Feb 24 20:08	7° $\text{H}$ 58'13	
superior conj	14208 Mar 22 07:32	11° $\text{Y}$ 16'28	0°07'36				
minimum elong	14208 Mar 22 08:06	11° $\text{Y}$ 19'00	0°07'24	superior conj	14209 Mar 05 05:57	24° $\text{H}$ 27'29	0°39'04
behind sun begin	14208 Mar 22 01:29	10° $\text{Y}$ 48'57		minimum elong	14209 Mar 05 08:13	24° $\text{H}$ 38'21	0°38'54
behind sun end	14208 Mar 22 14:43	11° $\text{Y}$ 48'59			14209 Mar 08 04:22	0° $\text{Y}$	
desc. node	14208 Mar 23 06:01	12° $\text{Y}$ 58'04		desc. node	14209 Mar 10 02:31	3° $\text{Y}$ 32'48	
max. Earth dist.	14208 Mar 29 21:41	24° $\text{Y}$ 36'26	1.41160 AU	max. Earth dist.	14209 Mar 12 04:20	7° $\text{Y}$ 17'48	1.38907 AU
	14208 Apr 02 02:55	0° $\text{B}$		evening rise	14209 Mar 15 23:28	13° $\text{Y}$ 57'00	
evening rise	14208 Apr 03 12:48	2° $\text{B}$ 19'08			14209 Mar 25 19:14	0° $\text{B}$	
	14208 Apr 21 18:05	0° $\text{II}$			14209 Apr 16 17:09	0° $\text{II}$	
evening max el	14208 May 07 14:15	19° $\text{II}$ 46'44	23°11'13	evening max el	14209 Apr 20 03:55	3° $\text{II}$ 39'37	24°31'46
asc. node	14208 May 17 08:06	25° $\text{II}$ 53'02		retrograde	14209 May 01 17:13	10° $\text{II}$ 25'17	
retrograde	14208 May 18 00:36	25° $\text{II}$ 55'09		asc. node	14209 May 04 05:22	9° $\text{II}$ 57'50	
evening set	14208 May 23 02:35	23° $\text{II}$ 46'21		evening set	14209 May 07 06:45	8° $\text{II}$ 04'27	
inferior conj	14208 May 28 10:59	17° $\text{II}$ 20'57	2°48'29	min. Earth dist.	14209 May 11 19:33	2° $\text{II}$ 53'40	0.68465 AU
minimum elong	14208 May 28 09:17	17° $\text{II}$ 26'51	2°47'11	inferior conj	14209 May 12 19:16	1° $\text{II}$ 34'15	2°21'37
min. Earth dist.	14208 May 27 23:57	17° $\text{II}$ 59'08	0.68939 AU	minimum elong	14209 May 12 17:09	1° $\text{II}$ 41'21	2°20'12
morning rise	14208 Jun 02 15:56	11° $\text{II}$ 13'27			14209 May 13 23:45	30° $\text{R}$ $\text{B}$	
direct	14208 Jun 07 00:27	9° $\text{II}$ 28'11		morning rise	14209 May 18 03:45	25° $\text{B}$ 35'11	
morning max el	14208 Jun 15 11:18	14° $\text{II}$ 19'09	21°00'48	direct	14209 May 22 00:06	24° $\text{B}$ 10'27	
desc. node	14208 Jun 19 07:12	18° $\text{II}$ 32'50		morning max el	14209 May 29 11:02	28° $\text{B}$ 19'30	19°49'42
	14208 Jun 27 23:07	0° $\text{D}$			14209 May 31 01:32	0° $\text{II}$	
morning set	14208 Jul 15 22:37	26° $\text{D}$ 50'58		desc. node	14209 Jun 06 04:13	7° $\text{II}$ 38'58	
	14208 Jul 17 22:50	0° $\text{Q}$			14209 Jun 21 09:39	0° $\text{D}$	
max. Earth dist.	14208 Jul 23 12:51	8° $\text{Q}$ 55'44	1.43100 AU	morning set	14209 Jun 25 01:30	5° $\text{D}$ 35'52	
				max. Earth dist.	14209 Jul 06 01:22	22° $\text{D}$ 43'58	1.44701 AU
					14209 Jul 10 14:33	0° $\text{Q}$	
superior conj	14208 Jul 30 13:58	20° $\text{Q}$ 36'14	-1°43'03				
minimum elong	14208 Jul 30 21:19	21° $\text{Q}$ 07'22	1°43'01	superior conj	14209 Jul 11 01:36	0° $\text{Q}$ 44'34	-2°06'29
	14208 Aug 05 01:06	0° $\text{P}$		minimum elong	14209 Jul 11 07:15	1° $\text{Q}$ 07'23	2°07'09
evening rise	14208 Aug 11 08:40	11° $\text{P}$ 10'28		evening rise	14209 Jul 24 14:25	23° $\text{Q}$ 11'28	
asc. node	14208 Aug 13 08:07	14° $\text{P}$ 41'55			14209 Jul 28 14:54	0° $\text{P}$	
	14208 Aug 22 09:37	0° $\text{L}$		asc. node	14209 Jul 31 04:45	4° $\text{P}$ 19'08	
evening max el	14208 Aug 27 18:36	6° $\text{L}$ 50'34	18°03'19	evening max el	14209 Aug 11 09:06	20° $\text{P}$ 13'21	18°06'29
retrograde	14208 Sep 03 11:29	10° $\text{L}$ 17'30		retrograde	14209 Aug 17 18:11	23° $\text{P}$ 33'47	
evening set	14208 Sep 05 20:58	9° $\text{L}$ 51'04		evening set	14209 Aug 20 12:01	22° $\text{P}$ 54'43	
inferior conj	14208 Sep 12 16:27	4° $\text{L}$ 51'47	0°45'18	inferior conj	14209 Aug 26 17:08	17° $\text{P}$ 37'40	1°48'18
minimum elong	14208 Sep 12 17:48	4° $\text{L}$ 48'33	0°44'47	minimum elong	14209 Aug 26 19:32	17° $\text{P}$ 31'10	1°47'14
desc. node	14208 Sep 15 04:05	2° $\text{L}$ 28'57		min. Earth dist.	14209 Aug 29 10:21	14° $\text{P}$ 42'01	0.63043 AU
min. Earth dist.	14208 Sep 15 19:52	1° $\text{L}$ 52'29	0.60791 AU	morning rise	14209 Sep 02 00:57	11° $\text{P}$ 24'58	
	14208 Sep 18 00:56	30° $\text{R}$ $\text{P}$		desc. node	14209 Sep 02 01:38	11° $\text{P}$ 23'43	
morning rise	14208 Sep 19 11:40	28° $\text{P}$ 57'58		direct	14209 Sep 08 16:54	8° $\text{P}$ 55'51	
direct	14208 Sep 26 02:25	26° $\text{P}$ 47'34		morning max el	14209 Sep 22 16:52	16° $\text{P}$ 57'11	27°51'04
	14208 Oct 04 19:01	0° $\text{L}$			14209 Oct 03 13:06	0° $\text{L}$	
morning max el	14208 Oct 10 08:38	4° $\text{L}$ 42'22	27°56'28		14209 Oct 21 23:42	0° $\text{L}$	
	14208 Oct 29 05:07	0° $\text{L}$		morning set	14209 Oct 27 04:39	10° $\text{L}$ 08'45	
asc. node	14208 Nov 09 10:07	20° $\text{L}$ 25'05		asc. node	14209 Oct 27 06:50	10° $\text{L}$ 19'50	
morning set	14208 Nov 12 08:01	26° $\text{L}$ 21'53		max. Earth dist.	14209 Nov 01 06:52	20° $\text{L}$ 45'55	1.32061 AU
	14208 Nov 14 01:25	0° $\text{X}$					
max. Earth dist.	14208 Nov 18 04:47	9° $\text{X}$ 00'13	1.31328 AU	superior conj	14209 Nov 03 21:21	26° $\text{L}$ 24'09	1°06'34
				minimum elong	14209 Nov 03 19:03	26° $\text{L}$ 11'37	1°07'03
superior conj	14208 Nov 19 13:13	12° $\text{X}$ 00'02	1°22'48		14209 Nov 05 12:45	0° $\text{X}$	
minimum elong	14208 Nov 19 11:14	11° $\text{X}$ 48'57	1°23'32	evening rise	14209 Nov 10 16:53	11° $\text{X}$ 18'31	
evening rise	14208 Nov 26 05:56	26° $\text{X}$ 47'42			14209 Nov 20 01:45	0° $\text{Z}$	
	14208 Nov 27 17:52	0° $\text{Z}$		desc. node	14209 Nov 28 22:15	13° $\text{Z}$ 45'07	
desc. node	14208 Dec 12 01:10	26° $\text{Z}$ 13'49		evening max el	14209 Dec 04 17:10	20° $\text{Z}$ 19'54	23°48'11
	14208 Dec 14 15:25	0° $\approx$		retrograde	14209 Dec 18 05:28	27° $\text{Z}$ 02'59	
evening max el	14208 Dec 23 06:27	10° $\approx$ 09'13	25°25'42	evening set	14209 Dec 22 22:58	26° $\text{Z}$ 14'18	
retrograde	14209 Jan 06 03:12	17° $\approx$ 07'50		min. Earth dist.	14209 Dec 29 04:13	23° $\text{Z}$ 13'12	0.55412 AU
evening set	14209 Jan 12 00:03	15° $\approx$ 49'15		inferior conj	14209 Dec 31 00:50	22° $\text{Z}$ 06'50	-5°47'19
min. Earth dist.	14209 Jan 16 18:46	13° $\approx$ 09'15	0.57000 AU	minimum elong	14209 Dec 31 05:59	21° $\text{Z}$ 59'09	5°45'45
inferior conj	14209 Jan 19 14:16	11° $\approx$ 16'09	-4°50'56	morning rise	14210 Jan 08 14:44	18° $\text{Z}$ 11'38	
minimum elong	14209 Jan 19 23:12	11° $\approx$ 01'08	4°47'50	direct	14210 Jan 11 05:16	17° $\text{Z}$ 54'40	
morning rise	14209 Jan 28 01:00	7° $\approx$ 02'36		morning max el	14210 Jan 21 20:41	23° $\text{Z}$ 01'25	20°12'13
direct	14209 Jan 30 04:08	6° $\approx$ 49'06		asc. node	14210 Jan 23 06:16	24° $\text{Z}$ 27'21	
asc. node	14209 Feb 05 08:54	8° $\approx$ 51'47					

	14210 Jan 27 15:17	0°♊			14210 Dec 29 16:42	0°♊	
morning set	14210 Feb 09 02:04	22°♊34'06		morning max el	14211 Jan 03 20:03	3°♊53'11	21°43'34
	14210 Feb 12 16:51	0°♋		asc. node	14211 Jan 10 03:33	11°♊19'28	
					14211 Jan 20 22:47	0°♋	
superior conj	14210 Feb 16 18:01	8°♋14'42	1°03'49	morning set	14211 Jan 24 12:00	7°♋18'14	
minimum elong	14210 Feb 16 20:42	8°♋28'14	1°03'56				
max. Earth dist.	14210 Feb 22 10:59	19°♋24'05	1.36674 AU	superior conj	14211 Jan 31 15:58	22°♋27'54	1°21'41
desc. node	14210 Feb 24 23:01	24°♋04'18		minimum elong	14211 Jan 31 18:15	22°♋39'48	1°22'10
evening rise	14210 Feb 26 05:36	26°♋23'51			14211 Feb 04 07:43	0°♌	
	14210 Feb 28 05:56	0°♍		max. Earth dist.	14211 Feb 04 22:49	1°♌16'12	1.34680 AU
	14210 Mar 19 06:39	0°♎		evening rise	14211 Feb 09 03:51	9°♌30'46	
evening max el	14210 Apr 02 17:24	17°♎31'49	25°45'43	desc. node	14211 Feb 11 19:34	14°♌28'55	
retrograde	14210 Apr 15 05:20	24°♎43'29			14211 Feb 20 19:12	0°♏	
evening set	14210 Apr 21 05:58	22°♎14'34			14211 Mar 15 00:15	0°♐	
asc. node	14210 Apr 21 02:45	22°♎21'14		evening max el	14211 Mar 16 07:19	1°♐17'30	26°45'29
min. Earth dist.	14210 Apr 25 11:54	17°♎39'22	0.67542 AU	retrograde	14211 Mar 29 11:51	8°♐42'34	
inferior conj	14210 Apr 27 00:10	15°♎44'14	1°44'05	evening set	14211 Apr 04 22:24	6°♐10'31	
minimum elong	14210 Apr 26 22:06	15°♎50'48	1°42'45	asc. node	14211 Apr 08 00:10	3°♐13'21	
morning rise	14210 May 02 14:51	9°♐54'51		min. Earth dist.	14211 Apr 08 22:47	2°♐09'36	0.66203 AU
direct	14210 May 05 23:56	8°♐49'31		inferior conj	14211 Apr 10 23:30	29°♐46'03	0°55'15
morning max el	14210 May 12 18:06	12°♐28'36	18°53'39	minimum elong	14211 Apr 10 22:08	29°♐50'05	0°54'18
desc. node	14210 May 24 01:07	27°♐15'47			14211 Apr 10 18:47	30°♑	
	14210 May 25 20:49	0°♒		morning rise	14211 Apr 16 23:05	24°♑08'08	
greatest brilliancy	14210 May 26 06:56	0°♒38'20	-0.8m	direct	14211 Apr 19 22:00	23°♑19'51	
morning set	14210 Jun 04 09:48	14°♒41'17		morning max el	14211 Apr 26 07:16	26°♑41'36	18°14'08
	14210 Jun 14 06:12	0°♓			14211 Apr 29 06:22	0°♒	
max. Earth dist.	14210 Jun 18 18:39	7°♓03'07	1.45656 AU	desc. node	14211 May 10 21:54	17°♒15'05	
				morning set	14211 May 15 17:30	24°♒57'15	
superior conj	14210 Jun 20 17:08	10°♓05'11	-2°13'32		14211 May 18 21:16	0°♓	
minimum elong	14210 Jun 20 16:04	10°♓00'59	2°14'35				
	14210 Jul 03 06:12	0°♈		superior conj	14211 May 31 01:23	19°♓13'08	-2°00'27
evening rise	14210 Jul 05 20:34	4°♈11'18		minimum elong	14211 May 30 17:36	18°♓42'40	2°00'58
asc. node	14210 Jul 18 01:28	23°♈36'17		max. Earth dist.	14211 Jun 01 14:47	21°♓39'13	1.45878 AU
	14210 Jul 22 14:16	0°♉			14211 Jun 06 23:20	0°♔	
evening max el	14210 Jul 25 22:45	3°♉51'22	18°27'38	evening rise	14211 Jun 16 02:32	14°♔12'35	
retrograde	14210 Aug 01 09:19	7°♉18'42			14211 Jun 26 07:27	0°♌	
evening set	14210 Aug 04 11:58	6°♉24'31		greatest brilliancy	14211 Jun 27 03:11	1°♌14'55	-0.7m
inferior conj	14210 Aug 10 06:21	0°♉51'36	2°31'23	asc. node	14211 Jul 04 22:17	12°♌26'25	
minimum elong	14210 Aug 10 08:37	0°♉44'49	2°30'16	evening max el	14211 Jul 09 08:54	17°♌37'56	19°05'54
	14210 Aug 10 23:33	30°♊		retrograde	14211 Jul 16 05:31	21°♌25'13	
min. Earth dist.	14210 Aug 12 10:03	28°♌17'36	0.65073 AU	evening set	14211 Jul 19 17:25	20°♌14'23	
morning rise	14210 Aug 16 04:01	24°♌29'26		inferior conj	14211 Jul 25 04:36	14°♌27'05	2°57'38
desc. node	14210 Aug 19 23:11	22°♌17'14		minimum elong	14211 Jul 25 06:07	14°♌22'12	2°56'36
direct	14210 Aug 22 15:50	21°♌50'52		min. Earth dist.	14211 Jul 26 17:49	12°♌27'27	0.66738 AU
morning max el	14210 Sep 05 03:33	29°♌46'05	27°11'38	morning rise	14211 Jul 30 18:09	8°♌02'11	
	14210 Sep 05 09:03	0°♍		direct	14211 Aug 05 21:39	5°♌23'50	
	14210 Sep 27 11:49	0°♎		desc. node	14211 Aug 06 20:40	5°♌27'17	
morning set	14210 Oct 10 15:42	23°♎26'59		morning max el	14211 Aug 18 14:40	12°♌58'21	26°06'08
	14210 Oct 13 22:59	0°♏			14211 Sep 01 08:49	0°♐	
asc. node	14210 Oct 14 03:29	0°♏22'45			14211 Sep 20 04:37	0°♑	
max. Earth dist.	14210 Oct 15 00:30	2°♏09'44	1.33338 AU	morning set	14211 Sep 23 13:49	6°♑08'33	
				max. Earth dist.	14211 Sep 27 08:23	13°♑17'16	1.35126 AU
superior conj	14210 Oct 19 00:39	10°♏31'23	0°44'37	asc. node	14211 Oct 01 00:04	20°♑29'43	
minimum elong	14210 Oct 18 22:38	10°♏20'41	0°44'52				
evening rise	14210 Oct 26 03:34	25°♏46'50		superior conj	14211 Oct 02 20:32	24°♑14'56	0°17'14
	14210 Oct 28 03:42	0°♐		minimum elong	14211 Oct 02 19:33	24°♑09'59	0°17'22
desc. node	14210 Nov 15 19:28	29°♐57'54			14211 Oct 05 15:28	0°♒	
	14210 Nov 15 20:18	0°♑		evening rise	14211 Oct 10 11:59	10°♒07'17	
evening max el	14210 Nov 16 04:31	0°♑20'21	22°06'13		14211 Oct 20 22:38	0°♓	
retrograde	14210 Nov 28 19:40	6°♑35'42		evening max el	14211 Oct 29 01:38	10°♓46'04	20°35'44
evening set	14210 Dec 02 04:22	6°♑10'40		desc. node	14211 Nov 02 16:47	14°♓25'57	
inferior conj	14210 Dec 10 19:58	2°♑16'58	-5°54'27	retrograde	14211 Nov 09 06:09	16°♓19'53	
minimum elong	14210 Dec 10 16:18	2°♑22'05	5°53'08	evening set	14211 Nov 11 13:24	16°♓06'49	
min. Earth dist.	14210 Dec 10 10:28	2°♑30'16	0.54561 AU	inferior conj	14211 Nov 20 11:43	12°♓12'21	-5°01'20
	14210 Dec 15 03:23	30°♒		minimum elong	14211 Nov 20 01:57	12°♓26'28	4°58'02
morning rise	14210 Dec 19 05:15	28°♒29'42		min. Earth dist.	14211 Nov 21 16:34	11°♒30'39	0.54625 AU
direct	14210 Dec 22 16:21	28°♒03'04		morning rise	14211 Nov 28 14:19	8°♒14'59	

direct	14211 Dec 03 00:46	7° $\text{♊}$ 32'48		evening set	14212 Oct 21 23:08	26° $\text{♍}$ 35'15	
morning max el	14211 Dec 16 08:10	14° $\text{♊}$ 01'53	23°30'26	inferior conj	14212 Oct 30 14:40	22° $\text{♍}$ 27'56	-3°25'07
asc. node	14211 Dec 28 00:44	29° $\text{♊}$ 10'12		minimum elong	14212 Oct 30 06:06	22° $\text{♍}$ 41'49	3°21'19
	14211 Dec 28 12:52	0° $\text{♊}$		min. Earth dist.	14212 Nov 02 02:05	20° $\text{♍}$ 51'47	0.55601 AU
morning set	14212 Jan 08 23:44	22° $\text{♋}$ 03'33		morning rise	14212 Nov 07 10:55	18° $\text{♍}$ 01'08	
	14212 Jan 12 15:51	0° $\text{♋}$		direct	14212 Nov 12 18:10	16° $\text{♍}$ 57'43	
				morning max el	14212 Nov 26 17:52	23° $\text{♍}$ 59'44	25°17'35
superior conj	14212 Jan 15 20:40	6° $\text{♋}$ 57'26	1°32'53		14212 Dec 02 05:08	0° $\text{♊}$	
minimum elong	14212 Jan 15 22:03	7° $\text{♋}$ 04'57	1°33'42	asc. node	14212 Dec 13 21:48	17° $\text{♊}$ 45'12	
max. Earth dist.	14212 Jan 18 18:18	13° $\text{♋}$ 09'59	1.33068 AU		14212 Dec 20 06:26	0° $\text{♊}$	
evening rise	14212 Jan 23 14:34	23° $\text{♋}$ 07'31		morning set	14212 Dec 23 11:27	6° $\text{♋}$ 45'07	
	14212 Jan 27 03:30	0° $\text{♋}$					
desc. node	14212 Jan 29 16:09	4° $\text{♋}$ 41'25		superior conj	14212 Dec 30 05:40	21° $\text{♋}$ 36'35	1°37'45
	14212 Feb 14 11:24	0° $\text{♋}$		minimum elong	14212 Dec 30 05:59	21° $\text{♋}$ 38'20	1°38'46
evening max el	14212 Feb 26 20:35	14° $\text{♋}$ 44'54	27°23'47	max. Earth dist.	14212 Dec 31 20:47	25° $\text{♋}$ 11'48	1.31920 AU
retrograde	14212 Mar 11 11:50	22° $\text{♋}$ 13'15			14213 Jan 03 01:49	0° $\text{♋}$	
evening set	14212 Mar 18 05:52	19° $\text{♋}$ 44'03		evening rise	14213 Jan 06 10:43	7° $\text{♋}$ 06'53	
min. Earth dist.	14212 Mar 22 02:01	16° $\text{♋}$ 14'56	0.64490 AU	desc. node	14213 Jan 15 12:50	24° $\text{♋}$ 36'23	
inferior conj	14212 Mar 24 14:41	13° $\text{♋}$ 32'30	-0°05'35		14213 Jan 18 15:41	0° $\text{♋}$	
minimum elong	14212 Mar 24 14:51	13° $\text{♋}$ 32'03	0°05'39	evening max el	14213 Feb 08 07:18	27° $\text{♋}$ 41'42	27°33'49
transit middle	14212 Mar 24 14:51	13° $\text{♋}$ 32'03	0°05'39		14213 Feb 10 21:25	0° $\text{♋}$	
transit begin	14212 Mar 24 11:58	13° $\text{♋}$ 39'48		retrograde	14213 Feb 22 04:33	5° $\text{♋}$ 06'22	
transit end	14212 Mar 24 17:44	13° $\text{♋}$ 24'18		evening set	14213 Mar 01 01:52	2° $\text{♋}$ 47'23	
asc. node	14212 Mar 24 21:39	13° $\text{♋}$ 13'47			14213 Mar 04 13:30	30° $\text{♋}$	
morning rise	14212 Mar 31 01:49	8° $\text{♋}$ 08'30		min. Earth dist.	14213 Mar 04 19:56	29° $\text{♋}$ 45'15	0.62477 AU
direct	14212 Apr 02 15:46	7° $\text{♋}$ 34'14		inferior conj	14213 Mar 07 18:41	26° $\text{♋}$ 56'13	-1°18'17
morning max el	14212 Apr 09 00:08	10° $\text{♋}$ 50'43	17°51'40	minimum elong	14213 Mar 07 21:20	26° $\text{♋}$ 49'50	1°17'01
	14212 Apr 22 06:49	0° $\text{♋}$		asc. node	14213 Mar 11 19:09	23° $\text{♋}$ 26'56	
morning set	14212 Apr 26 05:11	6° $\text{♋}$ 34'04		morning rise	14213 Mar 14 19:37	21° $\text{♋}$ 48'57	
desc. node	14212 Apr 26 18:32	7° $\text{♋}$ 29'52		direct	14213 Mar 17 02:07	21° $\text{♋}$ 25'15	
				morning max el	14213 Mar 23 17:46	24° $\text{♋}$ 47'44	17°46'43
superior conj	14212 May 09 19:37	28° $\text{♋}$ 53'11	-1°30'34		14213 Mar 28 01:05	0° $\text{♋}$	
minimum elong	14212 May 09 11:01	28° $\text{♋}$ 18'48	1°30'28	morning set	14213 Apr 08 16:50	19° $\text{♋}$ 18'34	
	14212 May 10 12:20	0° $\text{♋}$		desc. node	14213 Apr 13 15:05	27° $\text{♋}$ 55'20	
max. Earth dist.	14212 May 14 10:54	6° $\text{♋}$ 14'47	1.45344 AU		14213 Apr 14 19:56	0° $\text{♋}$	
evening rise	14212 May 25 16:05	23° $\text{♋}$ 38'44					
	14212 May 29 20:08	0° $\text{♋}$		superior conj	14213 Apr 20 11:27	9° $\text{♋}$ 34'55	-0°52'14
greatest brilliancy	14212 Jun 09 13:22	15° $\text{♋}$ 58'29	-0.6m	minimum elong	14213 Apr 20 06:22	9° $\text{♋}$ 13'44	0°52'04
	14212 Jun 20 04:21	0° $\text{♋}$		max. Earth dist.	14213 Apr 27 04:00	20° $\text{♋}$ 32'01	1.44123 AU
asc. node	14212 Jun 20 19:12	0° $\text{♋}$ 40'05			14213 May 03 03:37	0° $\text{♋}$	
evening max el	14212 Jun 21 13:40	1° $\text{♋}$ 27'39	20°00'04	evening rise	14213 May 05 04:34	3° $\text{♋}$ 09'50	
retrograde	14212 Jun 29 04:10	5° $\text{♋}$ 46'59			14213 May 23 07:27	0° $\text{♋}$	
evening set	14212 Jul 03 01:50	4° $\text{♋}$ 19'00		evening max el	14213 Jun 04 12:25	15° $\text{♋}$ 17'26	21°07'42
	14212 Jul 07 02:37	30° $\text{♋}$		asc. node	14213 Jun 07 16:13	18° $\text{♋}$ 04'43	
inferior conj	14212 Jul 08 08:57	28° $\text{♋}$ 18'39	3°09'50	retrograde	14213 Jun 13 03:04	20° $\text{♋}$ 17'48	
minimum elong	14212 Jul 08 09:29	28° $\text{♋}$ 16'51	3°08'50	evening set	14213 Jun 17 11:11	18° $\text{♋}$ 33'01	
min. Earth dist.	14212 Jul 09 07:56	27° $\text{♋}$ 00'53	0.67958 AU	inferior conj	14213 Jun 22 16:59	12° $\text{♋}$ 21'14	3°10'01
morning rise	14212 Jul 13 16:46	21° $\text{♋}$ 55'29		minimum elong	14213 Jun 22 16:31	12° $\text{♋}$ 22'51	3°08'56
direct	14212 Jul 19 09:21	19° $\text{♋}$ 25'33		min. Earth dist.	14213 Jun 23 02:22	11° $\text{♋}$ 48'34	0.68710 AU
desc. node	14212 Jul 23 18:04	20° $\text{♋}$ 37'11		morning rise	14213 Jun 27 21:37	6° $\text{♋}$ 02'38	
morning max el	14212 Jul 31 01:20	26° $\text{♋}$ 24'55	24°43'59	direct	14213 Jul 03 01:56	3° $\text{♋}$ 47'10	
	14212 Aug 03 08:50	0° $\text{♋}$		desc. node	14213 Jul 10 15:20	7° $\text{♋}$ 20'07	
	14212 Aug 24 22:23	0° $\text{♋}$		morning max el	14213 Jul 13 12:11	9° $\text{♋}$ 59'26	23°14'43
morning set	14212 Sep 04 18:57	18° $\text{♋}$ 04'19			14213 Jul 29 07:53	0° $\text{♋}$	
max. Earth dist.	14212 Sep 08 08:45	24° $\text{♋}$ 28'20	1.37305 AU	morning set	14213 Aug 17 02:30	29° $\text{♋}$ 02'46	
	14212 Sep 11 08:24	0° $\text{♋}$			14213 Aug 17 16:12	0° $\text{♋}$	
				max. Earth dist.	14213 Aug 21 06:53	6° $\text{♋}$ 08'35	1.39666 AU
superior conj	14212 Sep 15 05:52	7° $\text{♋}$ 27'21	-0°14'51				
minimum elong	14212 Sep 15 06:51	7° $\text{♋}$ 32'06	0°14'39	superior conj	14213 Aug 29 00:44	19° $\text{♋}$ 58'48	-0°49'57
behind sun begin	14212 Sep 15 04:02	7° $\text{♋}$ 18'23		minimum elong	14213 Aug 29 04:27	20° $\text{♋}$ 15'57	0°49'38
behind sun end	14212 Sep 15 09:40	7° $\text{♋}$ 45'50			14213 Sep 03 08:30	0° $\text{♋}$	
asc. node	14212 Sep 16 20:37	10° $\text{♋}$ 37'17		asc. node	14213 Sep 03 17:08	0° $\text{♋}$ 41'20	
evening rise	14212 Sep 23 15:50	24° $\text{♋}$ 14'13		evening rise	14213 Sep 07 12:09	7° $\text{♋}$ 59'12	
	14212 Sep 26 13:26	0° $\text{♋}$			14213 Sep 20 04:06	0° $\text{♋}$	
evening max el	14212 Oct 10 13:00	21° $\text{♋}$ 58'44	19°25'27	evening max el	14213 Sep 23 13:08	3° $\text{♋}$ 59'21	18°37'15
desc. node	14212 Oct 19 14:11	26° $\text{♋}$ 44'46		retrograde	14213 Oct 01 15:41	8° $\text{♋}$ 04'45	
retrograde	14212 Oct 20 02:08	26° $\text{♋}$ 45'31		evening set	14213 Oct 03 14:07	7° $\text{♋}$ 51'33	

desc. node	14213 Oct 06 11:39	6°♍46'53		evening max el	14214 Sep 06 22:07	16°♌40'11	18°10'04
inferior conj	14213 Oct 11 13:39	3°♍24'56	-1°37'12	retrograde	14214 Sep 14 00:00	20°♌16'42	
minimum elong	14213 Oct 11 09:43	3°♍32'22	1°35'08	evening set	14214 Sep 16 05:02	19°♌56'08	
min. Earth dist.	14213 Oct 14 17:37	1°♍02'08	0.57317 AU	inferior conj	14214 Sep 23 10:18	15°♌08'33	-0°00'54
	14213 Oct 16 05:22	30°♋♌		minimum elong	14214 Sep 23 10:17	15°♌08'37	0°00'44
morning rise	14213 Oct 19 01:53	28°♌20'35		transit middle	14214 Sep 23 10:17	15°♌08'37	0°00'44
direct	14213 Oct 25 02:06	26°♌50'47		transit begin	14214 Sep 23 06:53	15°♌16'05	
	14213 Nov 03 02:22	0°♍		transit end	14214 Sep 23 13:40	15°♌01'07	
morning max el	14213 Nov 08 08:36	4°♍19'10	26°46'11	desc. node	14214 Sep 23 09:09	15°♌11'05	
	14213 Nov 27 00:25	0°♌		min. Earth dist.	14214 Sep 26 16:58	12°♌16'27	0.59479 AU
asc. node	14213 Nov 30 18:45	6°♌52'32		morning rise	14214 Sep 30 12:10	9°♌30'28	
morning set	14213 Dec 07 21:25	21°♌17'40		direct	14214 Oct 06 23:43	7°♌33'35	
	14213 Dec 11 20:57	0°♌		morning max el	14214 Oct 21 06:58	15°♌20'39	27°41'51
					14214 Nov 02 05:13	0°♍	
superior conj	14213 Dec 14 16:52	6°♌18'43	1°36'35	asc. node	14214 Nov 17 15:36	26°♍23'36	
minimum elong	14213 Dec 14 16:08	6°♌14'36	1°37'36		14214 Nov 19 10:52	0°♌	
max. Earth dist.	14213 Dec 15 03:43	7°♌19'17	1.31274 AU	morning set	14214 Nov 22 03:50	5°♌36'35	
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desc. node	14214 Jan 02 09:38	14°♌06'28		superior conj	14214 Nov 29 04:23	20°♌58'19	1°29'31
	14214 Jan 12 20:40	0°♌		minimum elong	14214 Nov 29 02:45	20°♌49'16	1°30'24
evening max el	14214 Jan 21 13:12	9°♌56'27	27°10'38		14214 Dec 03 05:38	0°♌	
retrograde	14214 Feb 04 12:56	17°♌12'42		evening rise	14214 Dec 05 21:22	5°♌47'48	
evening set	14214 Feb 11 07:17	15°♌12'09			14214 Dec 18 10:15	0°♌	
min. Earth dist.	14214 Feb 15 03:40	12°♌28'43	0.60290 AU	desc. node	14214 Dec 20 06:32	3°♌01'41	
inferior conj	14214 Feb 18 08:04	9°♌48'30	-2°40'38	evening max el	14215 Jan 03 11:52	21°♌20'17	26°12'50
minimum elong	14214 Feb 18 13:55	9°♌36'10	2°37'55	retrograde	14215 Jan 17 10:50	28°♌25'13	
morning rise	14214 Feb 25 23:49	5°♌00'39		evening set	14215 Jan 23 18:13	26°♌50'18	
asc. node	14214 Feb 26 16:36	4°♌51'15		min. Earth dist.	14215 Jan 28 01:17	24°♌13'25	0.58131 AU
direct	14214 Feb 28 01:14	4°♌43'52		inferior conj	14215 Jan 31 03:10	21°♌59'01	-4°05'54
morning max el	14214 Mar 07 08:47	8°♌23'12	18°00'14	minimum elong	14215 Jan 31 11:45	21°♌43'19	4°02'29
	14214 Mar 21 08:50	0°♌		morning rise	14215 Feb 08 08:18	17°♌32'28	
morning set	14214 Mar 22 22:27	2°♌53'01		direct	14215 Feb 10 08:52	17°♌18'53	
desc. node	14214 Mar 31 11:36	18°♌27'39		asc. node	14215 Feb 13 14:03	17°♌55'04	
				morning max el	14215 Feb 18 17:15	21°♌25'15	18°33'51
superior conj	14214 Apr 02 03:15	21°♌23'03	-0°13'14		14215 Feb 25 07:03	0°♌	
minimum elong	14214 Apr 02 02:07	21°♌18'03	0°13'19	morning set	14215 Mar 06 16:36	17°♌00'48	
behind sun begin	14214 Apr 01 21:41	20°♌58'34			14215 Mar 13 10:59	0°♌	
behind sun end	14214 Apr 02 06:32	21°♌37'32					
	14214 Apr 07 03:05	0°♌		superior conj	14215 Mar 15 15:48	4°♌07'26	0°21'43
max. Earth dist.	14214 Apr 09 16:39	4°♌17'49	1.42348 AU	minimum elong	14215 Mar 15 17:16	4°♌14'15	0°21'31
evening rise	14214 Apr 15 06:39	13°♌22'11		desc. node	14215 Mar 18 08:06	9°♌02'35	
	14214 Apr 26 02:24	0°♌		max. Earth dist.	14215 Mar 23 01:07	17°♌23'46	1.40215 AU
evening max el	14214 May 18 06:11	29°♌08'24	22°24'50	evening rise	14215 Mar 27 05:14	24°♌29'25	
	14214 May 19 03:21	0°♌			14215 Mar 30 13:48	0°♌	
asc. node	14214 May 25 13:22	4°♌25'26			14215 Apr 19 21:31	0°♌	
retrograde	14214 May 28 00:34	4°♌52'51		evening max el	14215 Apr 30 20:54	13°♌01'00	23°45'58
evening set	14214 Jun 01 19:46	2°♌52'29		retrograde	14215 May 11 19:08	19°♌26'07	
	14214 Jun 04 12:38	30°♋♌		asc. node	14215 May 12 10:36	19°♌24'16	
inferior conj	14214 Jun 07 02:37	26°♌31'19	2°59'21	evening set	14215 May 17 01:58	17°♌12'03	
minimum elong	14214 Jun 07 01:18	26°♌35'54	2°58'08	inferior conj	14215 May 22 11:56	10°♌44'20	2°38'23
min. Earth dist.	14214 Jun 06 23:00	26°♌43'58	0.68987 AU	minimum elong	14215 May 22 10:01	10°♌50'55	2°37'01
morning rise	14214 Jun 12 06:41	20°♌19'11		min. Earth dist.	14215 May 21 19:35	11°♌40'15	0.68793 AU
direct	14214 Jun 16 22:25	18°♌22'07		morning rise	14215 May 27 18:02	4°♌40'06	
morning max el	14214 Jun 26 01:45	23°♌42'08	21°47'18	direct	14215 May 31 21:22	3°♌03'22	
desc. node	14214 Jun 27 12:29	25°♌12'37		morning max el	14215 Jun 08 21:07	7°♌35'04	20°28'50
	14214 Jul 01 14:47	0°♌		desc. node	14215 Jun 14 09:33	13°♌55'38	
	14214 Jul 22 16:14	0°♌			14215 Jun 25 21:53	0°♌	
morning set	14214 Jul 28 09:25	8°♌56'54		morning set	14215 Jul 07 18:40	17°♌55'37	
max. Earth dist.	14214 Aug 03 08:52	18°♌38'50	1.41940 AU		14215 Jul 15 11:17	0°♌	
	14214 Aug 10 01:47	0°♌		max. Earth dist.	14215 Jul 16 17:48	2°♌02'04	1.43853 AU
superior conj	14214 Aug 11 00:48	1°♌40'06	-1°24'55	superior conj	14215 Jul 23 02:07	12°♌22'34	-1°54'33
minimum elong	14214 Aug 11 07:17	2°♌08'23	1°24'39	minimum elong	14215 Jul 23 09:22	12°♌52'36	1°54'48
evening rise	14214 Aug 21 21:15	21°♌13'12			14215 Aug 02 10:59	0°♌	
asc. node	14214 Aug 21 13:42	20°♌38'32		evening rise	14215 Aug 04 14:25	3°♌44'03	
	14214 Aug 26 17:00	0°♌		asc. node	14215 Aug 08 10:20	10°♌24'25	



























































































































































































evening max el	14215 Aug 21 11:41	29° $\mathbb{M}$ 50'26	18°02'29	minimum elong	14216 Jul 02 07:25	22° $\mathbb{Q}$ 20'10	2°12'46
	14215 Aug 21 15:35	0° $\mathbb{L}$			14216 Jul 07 02:08	0° $\mathbb{Q}$	
retrograde	14215 Aug 27 23:51	3° $\mathbb{L}$ 12'35		evening rise	14216 Jul 16 10:31	15° $\mathbb{Q}$ 19'40	
evening set	14215 Aug 30 12:58	2° $\mathbb{L}$ 41'00		asc. node	14216 Jul 25 07:01	29° $\mathbb{Q}$ 53'46	
	14215 Sep 03 13:06	30° $\mathbb{R}$ $\mathbb{M}$			14216 Jul 25 08:34	0° $\mathbb{M}$	
inferior conj	14215 Sep 06 01:53	27° $\mathbb{M}$ 33'51	1°14'36	evening max el	14216 Aug 04 02:08	13° $\mathbb{M}$ 20'15	18°13'21
minimum elong	14215 Sep 06 03:52	27° $\mathbb{M}$ 28'50	1°13'46	retrograde	14216 Aug 10 10:42	16° $\mathbb{M}$ 42'03	
min. Earth dist.	14215 Sep 09 01:32	24° $\mathbb{M}$ 33'54	0.61768 AU	evening set	14216 Aug 13 08:17	15° $\mathbb{M}$ 56'41	
desc. node	14215 Sep 10 06:41	23° $\mathbb{M}$ 26'04		inferior conj	14216 Aug 19 08:21	10° $\mathbb{M}$ 32'21	2°08'50
morning rise	14215 Sep 12 16:14	21° $\mathbb{M}$ 31'07		minimum elong	14216 Aug 19 10:47	10° $\mathbb{M}$ 25'24	2°07'43
direct	14215 Sep 19 08:22	19° $\mathbb{M}$ 11'49		min. Earth dist.	14216 Aug 21 19:54	7° $\mathbb{M}$ 44'19	0.63938 AU
morning max el	14215 Oct 03 12:11	27° $\mathbb{M}$ 09'49	27°58'45	morning rise	14216 Aug 25 11:38	4° $\mathbb{M}$ 14'41	
	14215 Oct 06 04:52	0° $\mathbb{L}$		desc. node	14216 Aug 27 04:14	3° $\mathbb{M}$ 05'18	
	14215 Oct 26 21:59	0° $\mathbb{M}$		direct	14216 Sep 01 02:17	1° $\mathbb{M}$ 40'44	
asc. node	14215 Nov 04 12:22	16° $\mathbb{M}$ 11'40		morning max el	14216 Sep 14 21:51	9° $\mathbb{M}$ 40'37	27°38'15
morning set	14215 Nov 06 04:45	19° $\mathbb{M}$ 37'12			14216 Sep 30 19:45	0° $\mathbb{L}$	
	14215 Nov 11 02:09	0° $\mathbb{M}$			14216 Oct 18 06:27	0° $\mathbb{M}$	
max. Earth dist.	14215 Nov 11 17:21	1° $\mathbb{M}$ 22'55	1.31577 AU	morning set	14216 Oct 19 21:39	3° $\mathbb{M}$ 12'49	
				asc. node	14216 Oct 21 09:03	6° $\mathbb{M}$ 10'32	
superior conj	14215 Nov 13 14:20	5° $\mathbb{M}$ 30'13	1°16'38	max. Earth dist.	14216 Oct 24 16:29	13° $\mathbb{M}$ 01'10	1.32539 AU
minimum elong	14215 Nov 13 12:09	5° $\mathbb{M}$ 18'10	1°17'16				
evening rise	14215 Nov 20 07:42	20° $\mathbb{M}$ 18'57		superior conj	14216 Oct 27 20:39	19° $\mathbb{M}$ 47'51	0°57'59
	14215 Nov 24 22:48	0° $\mathbb{L}$		minimum elong	14216 Oct 27 18:24	19° $\mathbb{M}$ 35'37	0°58'20
desc. node	14215 Dec 07 03:34	21° $\mathbb{L}$ 09'09			14216 Nov 01 13:11	0° $\mathbb{M}$	
	14215 Dec 14 05:03	0° $\mathbb{M}$		evening rise	14216 Nov 03 18:46	4° $\mathbb{M}$ 49'37	
evening max el	14215 Dec 16 02:17	1° $\mathbb{M}$ 53'59	24°45'59		14216 Nov 17 02:09	0° $\mathbb{L}$	
retrograde	14215 Dec 29 20:11	8° $\mathbb{M}$ 45'59		desc. node	14216 Nov 23 00:44	8° $\mathbb{L}$ 10'18	
evening set	14216 Jan 04 06:45	7° $\mathbb{M}$ 40'27		evening max el	14216 Nov 26 11:57	11° $\mathbb{L}$ 55'23	23°04'14
min. Earth dist.	14216 Jan 09 14:07	4° $\mathbb{M}$ 53'57	0.56258 AU	retrograde	14216 Dec 09 16:45	18° $\mathbb{L}$ 28'40	
inferior conj	14216 Jan 12 01:32	3° $\mathbb{M}$ 19'52	-5°19'18	evening set	14216 Dec 13 20:40	17° $\mathbb{L}$ 51'00	
minimum elong	14216 Jan 12 09:39	3° $\mathbb{M}$ 06'58	5°16'47	min. Earth dist.	14216 Dec 20 21:23	14° $\mathbb{L}$ 35'30	0.54952 AU
	14216 Jan 18 03:18	30° $\mathbb{R}$ $\mathbb{L}$		inferior conj	14216 Dec 22 04:26	13° $\mathbb{L}$ 50'58	-5°57'30
morning rise	14216 Jan 20 14:42	29° $\mathbb{L}$ 14'38		minimum elong	14216 Dec 22 06:09	13° $\mathbb{L}$ 48'29	5°56'24
direct	14216 Jan 22 21:41	29° $\mathbb{L}$ 00'11		morning rise	14216 Dec 30 17:10	10° $\mathbb{L}$ 01'22	
	14216 Jan 27 09:50	0° $\mathbb{M}$		direct	14217 Jan 02 15:41	9° $\mathbb{L}$ 41'05	
asc. node	14216 Jan 31 11:26	2° $\mathbb{M}$ 39'26		morning max el	14217 Jan 13 22:52	15° $\mathbb{L}$ 05'40	20°48'33
morning max el	14216 Feb 01 15:04	3° $\mathbb{M}$ 42'32	19°29'34	asc. node	14217 Jan 17 08:46	18° $\mathbb{L}$ 49'44	
	14216 Feb 18 01:13	0° $\mathbb{M}$			14217 Jan 24 19:15	0° $\mathbb{M}$	
morning set	14216 Feb 18 19:12	1° $\mathbb{M}$ 29'57		morning set	14217 Feb 02 03:07	16° $\mathbb{M}$ 10'29	
					14217 Feb 08 18:40	0° $\mathbb{M}$	
superior conj	14216 Feb 26 20:35	17° $\mathbb{M}$ 35'47	0°50'25				
minimum elong	14216 Feb 26 23:10	17° $\mathbb{M}$ 48'24	0°50'20	superior conj	14217 Feb 09 13:18	1° $\mathbb{M}$ 35'35	1°12'14
desc. node	14216 Mar 04 04:38	29° $\mathbb{M}$ 36'48		minimum elong	14217 Feb 09 15:53	1° $\mathbb{M}$ 48'51	1°12'29
	14216 Mar 04 09:42	0° $\mathbb{Y}$		max. Earth dist.	14217 Feb 14 16:13	11° $\mathbb{M}$ 49'27	1.35790 AU
max. Earth dist.	14216 Mar 04 07:41	29° $\mathbb{M}$ 50'45	1.37950 AU	evening rise	14217 Feb 18 14:03	19° $\mathbb{M}$ 14'42	
evening rise	14216 Mar 08 00:39	6° $\mathbb{Y}$ 29'48		desc. node	14217 Feb 19 01:11	20° $\mathbb{M}$ 06'02	
	14216 Mar 22 12:12	0° $\mathbb{L}$			14217 Feb 24 14:55	0° $\mathbb{Y}$	
evening max el	14216 Apr 12 10:30	26° $\mathbb{L}$ 54'39	25°04'26		14217 Mar 16 14:32	0° $\mathbb{L}$	
	14216 Apr 15 20:54	0° $\mathbb{L}$		evening max el	14217 Mar 26 00:03	10° $\mathbb{L}$ 44'46	26°13'11
retrograde	14216 Apr 24 09:46	3° $\mathbb{L}$ 52'00		retrograde	14217 Apr 07 19:34	18° $\mathbb{L}$ 03'34	
asc. node	14216 Apr 28 07:55	2° $\mathbb{L}$ 46'18		evening set	14217 Apr 14 00:47	15° $\mathbb{L}$ 32'19	
evening set	14216 Apr 30 04:12	1° $\mathbb{L}$ 27'12		asc. node	14217 Apr 15 05:18	14° $\mathbb{L}$ 28'20	
	14216 May 01 16:36	30° $\mathbb{R}$ $\mathbb{L}$		min. Earth dist.	14217 Apr 18 04:07	11° $\mathbb{L}$ 12'15	0.67027 AU
min. Earth dist.	14216 May 04 13:58	26° $\mathbb{L}$ 31'49	0.68135 AU	inferior conj	14217 Apr 19 21:49	9° $\mathbb{L}$ 03'47	1°24'46
inferior conj	14216 May 05 19:01	24° $\mathbb{L}$ 56'34	2°07'01	minimum elong	14217 Apr 19 19:58	9° $\mathbb{L}$ 09'31	1°23'33
minimum elong	14216 May 05 16:51	25° $\mathbb{L}$ 03'41	2°05'36	morning rise	14217 Apr 25 15:59	3° $\mathbb{L}$ 19'20	
morning rise	14216 May 11 05:49	19° $\mathbb{L}$ 01'34		direct	14217 Apr 28 20:35	2° $\mathbb{L}$ 21'41	
direct	14216 May 14 21:21	17° $\mathbb{L}$ 45'11		morning max el	14217 May 05 10:00	5° $\mathbb{L}$ 51'40	18°34'47
morning max el	14216 May 22 00:00	21° $\mathbb{L}$ 39'24	19°23'52	desc. node	14217 May 18 03:21	23° $\mathbb{L}$ 03'13	
	14216 May 28 22:20	0° $\mathbb{L}$			14217 May 22 14:37	0° $\mathbb{L}$	
desc. node	14216 May 31 06:31	3° $\mathbb{L}$ 15'47		morning set	14217 May 26 13:53	6° $\mathbb{L}$ 13'27	
greatest brilliancy	14216 Jun 03 16:07	8° $\mathbb{L}$ 11'49	-0.7m		14217 Jun 10 18:47	0° $\mathbb{L}$	
morning set	14216 Jun 15 21:05	26° $\mathbb{L}$ 41'32		max. Earth dist.	14217 Jun 11 04:08	0° $\mathbb{L}$ 36'29	1.45839 AU
	14216 Jun 18 00:38	0° $\mathbb{L}$					
max. Earth dist.	14216 Jun 28 09:08	16° $\mathbb{L}$ 07'09	1.45196 AU	superior conj	14217 Jun 11 14:29	1° $\mathbb{L}$ 16'54	-2°10'25
				minimum elong	14217 Jun 11 10:05	0° $\mathbb{L}$ 59'42	2°11'20
superior conj	14216 Jul 02 04:08	22° $\mathbb{L}$ 07'06	-2°11'49	evening rise	14217 Jun 27 06:06	25° $\mathbb{L}$ 53'50	

	14217 Jun 29 20:08	0°♎		max. Earth dist.	14218 May 25 00:01	15°♊12'27	1.45735 AU
greatest brilliancy	14217 Jul 05 04:17	8°♎26'36	-0.8m		14218 Jun 03 12:31	0°♊	
asc. node	14217 Jul 12 03:46	19°♎00'45		evening rise	14218 Jun 07 03:30	5°♊35'36	
evening max el	14217 Jul 18 14:30	27°♎02'27	18°41'53	greatest brilliancy	14218 Jun 20 04:03	25°♊25'00	-0.7m
	14217 Jul 22 13:44	0°♎			14218 Jun 23 07:38	0°♎	
retrograde	14217 Jul 25 04:28	0°♎37'08		asc. node	14218 Jun 29 00:38	7°♎36'51	
	14217 Jul 27 17:35	30°♎♎		evening max el	14218 Jul 01 22:27	10°♎50'40	19°27'09
evening set	14217 Jul 28 10:55	29°♎36'05		retrograde	14218 Jul 09 01:59	14°♎50'33	
inferior conj	14217 Aug 03 01:48	23°♎56'42	2°44'23	evening set	14218 Jul 12 17:52	13°♎32'39	
minimum elong	14217 Aug 03 03:48	23°♎50'31	2°43'19	inferior conj	14218 Jul 18 02:58	7°♎39'44	3°04'23
min. Earth dist.	14217 Aug 04 23:20	21°♎36'03	0.65821 AU	minimum elong	14218 Jul 18 04:04	7°♎36'04	3°03'22
morning rise	14217 Aug 08 19:43	17°♎32'24		min. Earth dist.	14218 Jul 19 10:09	5°♎56'57	0.67311 AU
desc. node	14217 Aug 14 01:44	14°♎57'26		morning rise	14218 Jul 23 13:45	1°♎14'55	
direct	14217 Aug 15 04:13	14°♎52'56			14218 Jul 25 04:56	30°♎♊	
morning max el	14217 Aug 28 09:12	22°♎41'57	26°46'33	direct	14218 Jul 29 12:51	28°♊39'00	
	14217 Sep 03 19:56	0°♎		desc. node	14218 Jul 31 23:09	29°♊01'15	
	14217 Sep 24 02:32	0°♎			14218 Aug 03 07:30	0°♎	
morning set	14217 Oct 03 03:39	16°♎16'46		morning max el	14218 Aug 10 20:04	6°♎01'03	25°32'34
max. Earth dist.	14217 Oct 07 06:02	24°♎17'02	1.34035 AU		14218 Aug 29 09:37	0°♎	
asc. node	14217 Oct 08 05:40	26°♎15'52		morning set	14218 Sep 15 19:01	28°♎39'55	
	14217 Oct 10 01:36	0°♎			14218 Sep 16 12:38	0°♎	
				max. Earth dist.	14218 Sep 19 09:41	5°♎20'24	1.36009 AU
superior conj	14217 Oct 11 21:06	3°♎45'39	0°33'39	asc. node	14218 Sep 25 02:14	16°♎23'27	
minimum elong	14217 Oct 11 19:25	3°♎36'53	0°33'50				
evening rise	14217 Oct 19 04:43	19°♎15'07		superior conj	14218 Sep 25 12:52	17°♎16'36	0°04'08
	14217 Oct 24 11:08	0°♎		minimum elong	14218 Sep 25 12:36	17°♎15'17	0°04'17
evening max el	14217 Nov 08 02:18	22°♎02'06	21°25'37	behind sun begin	14218 Sep 25 06:32	16°♎44'53	
desc. node	14217 Nov 09 21:58	23°♎41'55		behind sun end	14218 Sep 25 18:41	17°♎45'45	
retrograde	14217 Nov 20 04:27	28°♎01'54			14218 Oct 01 18:32	0°♎	
evening set	14217 Nov 23 00:24	27°♎43'28		evening rise	14218 Oct 03 11:25	3°♎29'58	
inferior conj	14217 Dec 01 20:18	23°♎50'45	-5°38'55		14218 Oct 18 17:24	0°♎	
minimum elong	14217 Dec 01 13:13	24°♎00'42	5°36'51	evening max el	14218 Oct 21 05:23	2°♎46'40	20°03'15
min. Earth dist.	14217 Dec 02 03:16	23°♎40'56	0.54469 AU	desc. node	14218 Oct 27 19:17	7°♎17'24	
morning rise	14217 Dec 10 02:40	20°♎01'35		retrograde	14218 Oct 31 17:12	8°♎00'10	
direct	14217 Dec 13 23:24	19°♎29'16		evening set	14218 Nov 02 18:07	7°♎49'15	
morning max el	14217 Dec 26 16:46	25°♎36'58	22°27'50	inferior conj	14218 Nov 11 15:12	3°♎51'01	-4°24'01
	14217 Dec 30 17:50	0°♎		minimum elong	14218 Nov 11 05:09	4°♎06'08	4°20'08
asc. node	14218 Jan 04 05:59	6°♎08'38		min. Earth dist.	14218 Nov 13 10:48	2°♎45'25	0.54929 AU
	14218 Jan 17 03:27	0°♎			14218 Nov 18 20:05	30°♎♎	
morning set	14218 Jan 17 14:01	0°♎55'44		morning rise	14218 Nov 19 15:04	29°♎42'42	
				direct	14218 Nov 24 10:52	28°♎51'57	
superior conj	14218 Jan 24 14:26	15°♎56'56	1°27'13		14218 Nov 29 22:42	0°♎	
minimum elong	14218 Jan 24 16:23	16°♎07'13	1°27'51	morning max el	14218 Dec 08 02:38	5°♎36'41	24°17'05
max. Earth dist.	14218 Jan 28 06:50	23°♎39'22	1.33940 AU	asc. node	14218 Dec 22 03:07	24°♎19'59	
	14218 Jan 31 10:18	0°♎			14218 Dec 25 07:28	0°♎	
evening rise	14218 Feb 01 17:58	2°♎35'18		morning set	14219 Jan 02 01:57	15°♎40'19	
desc. node	14218 Feb 05 21:44	10°♎26'12					
	14218 Feb 17 12:44	0°♎		superior conj	14219 Jan 08 21:16	0°♎31'58	1°35'42
evening max el	14218 Mar 08 13:37	24°♎23'27	27°04'46	minimum elong	14219 Jan 08 22:13	0°♎37'08	1°36'37
	14218 Mar 15 18:06	0°♎			14219 Jan 08 15:25	0°♎	
retrograde	14218 Mar 21 23:39	1°♎51'56		max. Earth dist.	14219 Jan 11 05:21	5°♎36'13	1.32517 AU
	14218 Mar 27 15:36	30°♎♎		evening rise	14219 Jan 16 09:05	16°♎23'23	
evening set	14218 Mar 28 13:43	29°♎20'03			14219 Jan 23 11:09	0°♎	
min. Earth dist.	14218 Apr 01 11:59	25°♎33'08	0.65513 AU	desc. node	14219 Jan 23 18:22	0°♎32'37	
asc. node	14218 Apr 02 02:45	24°♎51'50			14219 Feb 12 02:44	0°♎	
inferior conj	14218 Apr 03 18:00	22°♎59'54	0°30'54	evening max el	14219 Feb 19 02:13	7°♎40'42	27°31'55
minimum elong	14218 Apr 03 17:11	23°♎02'15	0°30'16	retrograde	14219 Mar 04 20:54	15°♎08'29	
morning rise	14218 Apr 09 22:13	17°♎27'47		evening set	14219 Mar 11 16:42	12°♎42'55	
direct	14218 Apr 12 17:03	16°♎46'03		min. Earth dist.	14219 Mar 15 11:41	9°♎25'43	0.63661 AU
morning max el	14218 Apr 19 01:07	20°♎04'23	18°02'26	inferior conj	14219 Mar 18 04:53	6°♎38'47	-0°34'59
	14218 Apr 26 17:25	0°♎		minimum elong	14219 Mar 18 06:00	6°♎35'56	0°34'32
desc. node	14218 May 05 00:04	13°♎09'50		asc. node	14219 Mar 20 00:13	4°♎50'34	
morning set	14218 May 07 09:34	17°♎04'10		morning rise	14219 Mar 24 21:39	1°♎21'19	
	14218 May 15 09:21	0°♎		direct	14219 Mar 27 08:08	0°♎52'04	
				morning max el	14219 Apr 02 18:42	4°♎10'06	17°47'17
superior conj	14218 May 22 01:02	10°♎33'59	-1°49'23	morning set	14219 Apr 19 08:17	29°♎12'55	
minimum elong	14218 May 21 16:08	9°♎58'53	1°49'35		14219 Apr 19 19:19	0°♎	



desc. node	14219 Apr 21 20:41	3°♄30'14		superior conj	14220 Apr 12 05:52	1°♄49'23	-0°35'25
				minimum elong	14220 Apr 12 02:34	1°♄35'19	0°35'21
superior conj	14219 May 02 03:42	20°♄38'54	-1°14'49	max. Earth dist.	14220 Apr 19 10:44	13°♄49'01	1.43437 AU
minimum elong	14219 May 01 20:20	20°♄08'54	1°14'38	evening rise	14220 Apr 26 07:33	24°♄45'21	
	14219 May 07 23:31	0°♄			14220 Apr 29 16:56	0°♄	
max. Earth dist.	14219 May 07 18:55	29°♄41'46	1.44908 AU		14220 May 20 14:11	0°♄	
evening rise	14219 May 17 14:35	14°♄59'15		evening max el	14220 May 27 21:19	8°♄31'57	21°39'37
	14219 May 27 13:27	0°♄		asc. node	14220 Jun 01 18:39	12°♄31'23	
evening max el	14219 Jun 15 00:46	24°♄41'15	20°27'24	retrograde	14220 Jun 05 23:15	13°♄50'26	
asc. node	14219 Jun 15 21:35	25°♄31'38		evening set	14220 Jun 10 12:08	11°♄58'40	
retrograde	14219 Jun 23 00:51	29°♄16'51		inferior conj	14220 Jun 15 18:08	5°♄42'45	3°06'45
evening set	14219 Jun 27 02:53	27°♄41'46		minimum elong	14220 Jun 15 17:17	5°♄45'43	3°05'37
inferior conj	14219 Jul 02 09:09	21°♄36'36	3°11'16	min. Earth dist.	14220 Jun 15 21:54	5°♄29'36	0.68896 AU
minimum elong	14219 Jul 02 09:16	21°♄36'15	3°10'15		14220 Jun 20 07:56	30°♄	
min. Earth dist.	14219 Jul 03 02:21	20°♄37'36	0.68346 AU	morning rise	14220 Jun 20 22:14	29°♄26'59	
morning rise	14219 Jul 07 15:19	15°♄15'09		direct	14220 Jun 25 21:16	27°♄19'02	
direct	14219 Jul 13 02:55	12°♄50'30			14220 Jul 02 05:35	0°♄	
desc. node	14219 Jul 18 20:30	14°♄53'57		desc. node	14220 Jul 04 17:44	2°♄09'12	
morning max el	14219 Jul 24 06:22	19°♄30'36	24°06'08	morning max el	14220 Jul 05 18:00	3°♄08'24	22°36'47
	14219 Aug 02 04:18	0°♄			14220 Jul 26 05:14	0°♄	
	14219 Aug 22 12:49	0°♄		morning set	14220 Aug 08 12:40	20°♄43'29	
morning set	14219 Aug 28 15:25	10°♄12'04		max. Earth dist.	14220 Aug 13 07:47	28°♄42'00	1.40667 AU
max. Earth dist.	14219 Sep 01 08:02	16°♄39'24	1.38307 AU		14220 Aug 14 02:09	0°♄	
superior conj	14219 Sep 08 16:33	0°♄12'49	-0°29'33	superior conj	14220 Aug 21 04:01	12°♄24'33	-1°05'04
minimum elong	14219 Sep 08 18:37	0°♄22'38	0°29'16	minimum elong	14220 Aug 21 08:59	12°♄46'58	1°04'43
	14219 Sep 08 13:52	0°♄		asc. node	14220 Aug 28 19:21	26°♄32'04	
asc. node	14219 Sep 11 22:47	6°♄30'03			14220 Aug 30 15:25	0°♄	
evening rise	14219 Sep 17 12:25	17°♄28'13		evening rise	14220 Aug 31 04:31	1°♄01'52	
	14219 Sep 24 01:40	0°♄		evening max el	14220 Sep 16 03:03	26°♄39'27	18°23'10
evening max el	14219 Oct 03 22:38	14°♄20'22	19°02'18		14220 Sep 20 22:54	0°♄	
retrograde	14219 Oct 12 19:42	18°♄47'49		retrograde	14220 Sep 23 17:44	0°♄31'03	
evening set	14219 Oct 14 16:33	18°♄36'46		evening set	14220 Sep 25 18:41	0°♄15'09	
desc. node	14219 Oct 14 16:42	18°♄36'42			14220 Sep 26 14:35	30°♄	
inferior conj	14219 Oct 23 01:56	14°♄21'47	-2°38'59	desc. node	14220 Sep 30 14:12	27°♄49'51	
minimum elong	14219 Oct 22 19:13	14°♄33'21	2°35'45	inferior conj	14220 Oct 03 10:20	25°♄39'08	-0°54'04
min. Earth dist.	14219 Oct 25 22:19	12°♄24'17	0.56258 AU	minimum elong	14220 Oct 03 08:16	25°♄43'18	0°52'53
morning rise	14219 Oct 30 19:06	9°♄39'37		min. Earth dist.	14220 Oct 06 16:44	23°♄01'42	0.58200 AU
direct	14219 Nov 05 10:29	8°♄25'15		morning rise	14220 Oct 10 18:24	20°♄19'38	
morning max el	14219 Nov 19 13:31	15°♄38'49	25°58'41	direct	14220 Oct 17 00:06	18°♄38'26	
	14219 Dec 01 03:18	0°♄		morning max el	14220 Oct 31 07:31	26°♄14'58	27°14'37
asc. node	14219 Dec 09 00:08	13°♄09'57			14220 Nov 03 20:45	0°♄	
	14219 Dec 17 09:42	0°♄			14220 Nov 23 13:56	0°♄	
morning set	14219 Dec 17 13:07	0°♄18'23		asc. node	14220 Nov 24 21:03	2°♄28'36	
				morning set	14220 Nov 30 21:50	14°♄45'51	
superior conj	14219 Dec 24 07:25	15°♄12'50	1°37'58	superior conj	14220 Dec 07 18:58	29°♄54'22	1°34'17
minimum elong	14219 Dec 24 07:16	15°♄12'03	1°39'01	minimum elong	14220 Dec 07 17:49	29°♄47'59	1°35'17
max. Earth dist.	14219 Dec 25 10:13	17°♄41'36	1.31581 AU		14220 Dec 07 19:58	0°♄	
evening rise	14219 Dec 31 08:26	0°♄30'22			14220 Dec 07 18:18	29°♄50'40	1.31160 AU
	14219 Dec 31 02:38	0°♄		max. Earth dist.	14220 Dec 14 13:41	14°♄50'39	
desc. node	14220 Jan 10 15:05	20°♄18'10		evening rise	14220 Dec 22 02:19	0°♄	
	14220 Jan 16 11:38	0°♄			14220 Dec 27 11:56	9°♄34'52	
evening max el	14220 Feb 01 11:27	20°♄22'01	27°28'21	desc. node	14221 Jan 11 08:33	0°♄	
retrograde	14220 Feb 15 10:00	27°♄42'42			14221 Jan 13 14:31	2°♄15'23	26°50'06
evening set	14220 Feb 22 06:54	25°♄30'55		evening max el	14221 Jan 27 13:49	9°♄26'34	
min. Earth dist.	14220 Feb 26 01:26	22°♄37'47	0.61561 AU	retrograde	14221 Feb 03 04:55	7°♄35'58	
inferior conj	14220 Feb 29 03:09	19°♄50'50	-1°52'12	evening set	14221 Feb 07 04:28	4°♄57'23	0.59360 AU
minimum elong	14220 Feb 29 07:07	19°♄41'49	1°50'19	min. Earth dist.	14221 Feb 10 09:08	2°♄26'09	-3°17'04
asc. node	14220 Mar 05 21:41	15°♄28'31		inferior conj	14221 Feb 10 16:20	2°♄11'53	3°13'54
morning rise	14220 Mar 07 10:20	14°♄51'08		minimum elong	14221 Feb 13 15:36	30°♄	
direct	14220 Mar 09 14:24	14°♄30'44			14221 Feb 18 06:58	27°♄47'18	
morning max el	14220 Mar 16 11:36	17°♄59'02	17°50'05	morning rise	14221 Feb 20 07:32	27°♄32'15	
	14220 Mar 25 03:24	0°♄		direct	14221 Feb 20 19:09	27°♄33'08	
morning set	14220 Apr 01 04:21	12°♄21'25		asc. node	14221 Feb 26 11:39	0°♄	
desc. node	14220 Apr 07 17:13	23°♄59'17			14221 Feb 28 00:18	1°♄21'24	18°12'01
	14220 Apr 11 04:19	0°♄		morning max el	14221 Mar 15 15:51	26°♄11'41	
				morning set			

	14221 Mar 17 16:24	0°♿				14222 Feb 22 02:18	0°♿	
				morning set		14222 Feb 27 14:01	10°♿29'36	
superior conj	14221 Mar 25 07:02	14°♿03'06	0°02'16					
minimum elong	14221 Mar 25 07:12	14°♿03'50	0°02'07	superior conj	14222 Mar 08 03:05	27°♿08'06	0°34'42	
behind sun begin	14221 Mar 24 23:43	13°♿30'05		minimum elong	14222 Mar 08 05:11	27°♿18'04	0°34'31	
behind sun end	14221 Mar 25 14:42	14°♿37'30			14222 Mar 09 15:32	0°♿		
desc. node	14221 Mar 25 13:45	14°♿33'14		desc. node	14222 Mar 12 10:16	5°♿08'32		
max. Earth dist.	14221 Apr 01 21:50	27°♿19'55	1.41475 AU	max. Earth dist.	14222 Mar 15 04:45	10°♿07'21	1.39243 AU	
	14221 Apr 03 12:02	0°♿		evening rise	14222 Mar 19 01:35	16°♿50'44		
evening rise	14221 Apr 06 17:56	5°♿20'06			14222 Mar 27 02:23	0°♿		
	14221 Apr 22 21:58	0°♿			14222 Apr 17 10:45	0°♿		
evening max el	14221 May 10 13:26	22°♿23'13	22°59'08	evening max el	14222 Apr 23 03:19	6°♿16'29	24°20'03	
asc. node	14221 May 19 15:50	28°♿19'42		retrograde	14222 May 04 12:56	12°♿57'24		
retrograde	14221 May 20 19:42	28°♿25'46		asc. node	14222 May 06 13:06	12°♿39'42		
evening set	14221 May 25 19:56	26°♿19'00		evening set	14222 May 10 00:42	10°♿38'14		
inferior conj	14221 May 31 03:52	19°♿54'30	2°51'42	min. Earth dist.	14222 May 14 14:42	5°♿21'55	0.68563 AU	
minimum elong	14221 May 31 02:15	20°♿00'06	2°50'25	inferior conj	14222 May 15 12:30	4°♿08'28	2°26'23	
min. Earth dist.	14221 May 30 18:42	20°♿26'17	0.68965 AU	minimum elong	14222 May 15 10:25	4°♿15'29	2°25'00	
morning rise	14221 Jun 05 08:30	13°♿45'46			14222 May 18 19:46	30°♿♿		
direct	14221 Jun 09 18:50	11°♿57'31		morning rise	14222 May 20 20:16	28°♿07'55		
morning max el	14221 Jun 18 09:53	16°♿55'54	21°12'29	direct	14222 May 24 18:23	26°♿40'06		
desc. node	14221 Jun 21 14:52	20°♿25'16			14222 May 31 09:16	0°♿		
	14221 Jun 29 01:25	0°♿		morning max el	14222 Jun 01 08:29	0°♿54'50	19°59'22	
morning set	14221 Jul 19 09:27	0°♿11'39		desc. node	14222 Jun 08 11:54	9°♿26'03		
	14221 Jul 19 06:29	0°♿			14222 Jun 22 16:04	0°♿		
max. Earth dist.	14221 Jul 26 12:55	11°♿36'44	1.42812 AU	morning set	14222 Jun 28 13:25	8°♿58'49		
				max. Earth dist.	14222 Jul 09 00:23	25°♿18'26	1.44504 AU	
superior conj	14221 Aug 02 18:44	23°♿41'10	-1°38'31		14222 Jul 11 22:52	0°♿		
minimum elong	14221 Aug 03 01:57	24°♿11'59	1°38'26					
	14221 Aug 06 10:34	0°♿		superior conj	14222 Jul 14 09:55	3°♿58'29	-2°03'49	
evening rise	14221 Aug 14 07:30	13°♿59'22		minimum elong	14222 Jul 14 16:10	4°♿23'52	2°04'23	
asc. node	14221 Aug 15 15:56	16°♿25'04		evening rise	14222 Jul 27 16:24	26°♿08'34		
	14221 Aug 23 11:52	0°♿			14222 Jul 29 22:36	0°♿		
evening max el	14221 Aug 30 14:25	9°♿33'39	18°04'29	asc. node	14222 Aug 02 12:36	6°♿04'50		
retrograde	14221 Sep 06 09:23	13°♿02'44		evening max el	14222 Aug 14 04:47	22°♿53'26	18°04'52	
evening set	14221 Sep 08 17:37	12°♿37'59		retrograde	14222 Aug 20 14:22	26°♿13'48		
inferior conj	14221 Sep 15 15:34	7°♿41'44	0°33'49	evening set	14222 Aug 23 06:57	25°♿36'47		
minimum elong	14221 Sep 15 16:37	7°♿39'16	0°33'27	inferior conj	14222 Aug 29 14:00	20°♿22'20	1°40'02	
desc. node	14221 Sep 17 11:44	5°♿57'38		minimum elong	14222 Aug 29 16:20	20°♿16'07	1°39'01	
min. Earth dist.	14221 Sep 18 20:05	4°♿43'32	0.60448 AU	min. Earth dist.	14222 Sep 01 09:03	17°♿24'53	0.62722 AU	
morning rise	14221 Sep 22 12:30	1°♿51'33		desc. node	14222 Sep 04 09:16	14°♿39'04		
	14221 Sep 26 18:58	30°♿♿		morning rise	14222 Sep 04 23:29	14°♿11'56		
direct	14221 Sep 29 02:35	29°♿44'26		direct	14222 Sep 11 15:43	11°♿44'56		
	14221 Oct 01 11:32	0°♿		morning max el	14222 Sep 25 16:47	19°♿45'51	27°54'08	
morning max el	14221 Oct 13 09:20	7°♿37'49	27°53'53		14222 Oct 04 10:57	0°♿		
	14221 Oct 30 09:56	0°♿			14222 Oct 23 09:30	0°♿		
asc. node	14221 Nov 11 17:53	22°♿07'37		morning set	14222 Oct 29 23:58	12°♿48'03		
morning set	14221 Nov 15 02:10	28°♿57'32		asc. node	14222 Oct 29 14:38	12°♿00'45		
	14221 Nov 15 14:04	0°♿		max. Earth dist.	14222 Nov 04 04:45	23°♿42'19	1.31916 AU	
max. Earth dist.	14221 Nov 21 01:46	11°♿54'03	1.31266 AU					
				superior conj	14222 Nov 06 14:41	28°♿57'18	1°09'26	
superior conj	14221 Nov 22 06:01	14°♿30'58	1°24'46	minimum elong	14222 Nov 06 12:24	28°♿44'47	1°09'56	
minimum elong	14221 Nov 22 04:07	14°♿20'21	1°25'33		14222 Nov 07 02:07	0°♿		
evening rise	14221 Nov 28 22:40	29°♿18'39		evening rise	14222 Nov 13 09:30	13°♿49'39		
	14221 Nov 29 06:21	0°♿			14222 Nov 21 09:03	0°♿		
desc. node	14221 Dec 14 08:55	28°♿11'32		desc. node	14222 Dec 01 05:59	15°♿53'03		
	14221 Dec 15 13:36	0°♿		evening max el	14222 Dec 07 20:49	23°♿31'39	24°03'30	
evening max el	14221 Dec 26 09:18	13°♿15'35	25°38'43		14222 Dec 18 16:51	0°♿		
retrograde	14222 Jan 09 06:54	20°♿16'11		retrograde	14222 Dec 21 11:01	0°♿17'18		
evening set	14222 Jan 15 06:45	18°♿53'16			14222 Dec 24 05:53	30°♿♿		
min. Earth dist.	14222 Jan 19 21:54	16°♿14'36	0.57277 AU	evening set	14222 Dec 26 09:08	29°♿24'29		
inferior conj	14222 Jan 22 19:29	14°♿15'29	-4°39'47	min. Earth dist.	14223 Jan 01 08:15	26°♿27'43	0.55606 AU	
minimum elong	14222 Jan 23 04:29	14°♿00'03	4°36'31	inferior conj	14223 Jan 03 09:02	25°♿14'02	-5°41'26	
morning rise	14222 Jan 31 05:01	9°♿58'42		minimum elong	14223 Jan 03 05:10	25°♿04'45	5°39'38	
direct	14222 Feb 02 07:09	9°♿45'22		morning rise	14223 Jan 11 23:02	21°♿16'23		
asc. node	14222 Feb 07 16:34	11°♿20'26		direct	14223 Jan 14 11:15	21°♿00'15		
morning max el	14222 Feb 11 04:48	14°♿05'57	18°54'53	morning max el	14223 Jan 24 20:57	26°♿00'47	20°00'26	

asc. node	14223 Jan 25 13:56	26°  43'05		morning max el	14224 Jan 06 22:25	7°  00'33	21°28'39
	14223 Jan 28 10:16	0° 		asc. node	14224 Jan 12 11:13	13°  24'54	
morning set	14223 Feb 11 19:10	25°  04'03			14224 Jan 22 08:52	0° 	
	14223 Feb 14 05:06	0° 		morning set	14224 Jan 27 04:37	9°  47'33	
superior conj	14223 Feb 19 13:22	10°  50'41	1°00'31	superior conj	14224 Feb 03 10:02	25°  00'37	1°19'24
minimum elong	14223 Feb 19 16:03	11°  04'07	1°00'33	minimum elong	14224 Feb 03 12:24	25°  12'59	1°19'49
max. Earth dist.	14223 Feb 25 11:09	22°  18'13	1.36997 AU		14224 Feb 05 20:08	0° 	
desc. node	14223 Feb 27 06:47	25°  40'56		max. Earth dist.	14224 Feb 07 22:09	4°  12'04	1.34960 AU
evening rise	14223 Mar 01 05:02	29°  11'09		evening rise	14224 Feb 12 01:05	12°  12'34	
	14223 Mar 01 15:56	0° 		desc. node	14224 Feb 14 03:20	16°  06'58	
	14223 Mar 20 09:26	0° 			14224 Feb 22 02:33	0° 	
evening max el	14223 Apr 05 16:52	20°  09'31	25°35'25		14224 Mar 14 12:24	0° 	
retrograde	14223 Apr 18 01:42	27°  17'45		evening max el	14224 Mar 18 06:43	3°  56'32	26°37'43
asc. node	14223 Apr 23 10:26	25°  18'30		retrograde	14224 Mar 31 09:00	11°  20'00	
evening set	14223 Apr 24 00:44	24°  49'53		evening set	14224 Apr 06 18:15	8°  47'58	
min. Earth dist.	14223 Apr 28 07:39	20°  09'25	0.67710 AU	asc. node	14224 Apr 09 07:50	6°  22'13	
inferior conj	14223 Apr 29 18:01	18°  19'19	1°50'30	min. Earth dist.	14224 Apr 10 19:23	4°  42'12	0.66433 AU
minimum elong	14223 Apr 29 15:54	18°  26'06	1°49'09	inferior conj	14224 Apr 12 18:18	2°  22'21	1°03'25
morning rise	14223 May 05 07:35	12°  28'20		minimum elong	14224 Apr 12 16:46	2°  26'54	1°02'23
direct	14223 May 08 18:20	11°  20'08			14224 Apr 14 19:37	30°  R 	
morning max el	14223 May 15 14:26	15°  02'42	19°00'57	morning rise	14224 Apr 18 16:23	26°  Y 	
desc. node	14223 May 26 08:47	28°  58'49		direct	14224 Apr 21 16:47	25°  Y 	
	14223 May 27 01:20	0° 		morning max el	14224 Apr 28 02:48	29°  Y 	18°18'55
greatest brilliancy	14223 May 28 19:13	2°  II 	-0.7m		14224 Apr 28 20:28	0° 	
morning set	14223 Jun 07 19:33	17°  II 	57'32	desc. node	14224 May 12 05:33	18°  S 	
	14223 Jun 15 13:54	0° 		morning set	14224 May 17 23:04	28°  S 	
max. Earth dist.	14223 Jun 21 17:12	9°  S 	1.45564 AU		14224 May 19 04:57	0° 	
superior conj	14223 Jun 24 03:51	13°  S 	24'42	superior conj	14224 Jun 02 11:58	22°  II 	31'05
minimum elong	14223 Jun 24 04:00	13°  S 	25'15	minimum elong	14224 Jun 02 04:53	22°  II 	03'24
	14223 Jul 04 14:02	0° 		max. Earth dist.	14224 Jun 03 13:18	24°  II 	09'59
evening rise	14223 Jul 09 02:14	7°  S 	17'54		14224 Jun 07 07:05	0° 	
asc. node	14223 Jul 20 09:18	25°  S 	25'36	evening rise	14224 Jun 18 11:30	17°  S 	
	14223 Jul 23 11:38	0° 			14224 Jun 26 12:44	0° 	
evening max el	14223 Jul 28 18:45	6°  S 	29'55	greatest brilliancy	14224 Jun 28 17:58	3°  S 	24'42
retrograde	14223 Aug 04 04:26	9°  S 	55'13	asc. node	14224 Jul 06 06:04	14°  S 	20'23
evening set	14223 Aug 07 05:48	9°  S 	03'20	evening max el	14224 Jul 11 05:31	20°  S 	15'29
inferior conj	14223 Aug 13 01:33	3°  S 	32'36	retrograde	14224 Jul 18 00:06	23°  S 	05'05
minimum elong	14223 Aug 13 03:53	3°  S 	25'43	evening set	14224 Jul 21 10:36	22°  S 	05'04
min. Earth dist.	14223 Aug 15 07:21	0°  S 	54'34	inferior conj	14224 Jul 26 22:38	17°  S 	05'21
	14223 Aug 16 02:49	30°  R 		minimum elong	14224 Jul 27 00:17	17°  S 	00'04
morning rise	14223 Aug 19 00:38	27°  S 	11'28	min. Earth dist.	14224 Jul 28 13:57	15°  S 	00'07
desc. node	14223 Aug 22 06:47	25°  S 	12'26	morning rise	14224 Aug 01 13:14	10°  S 	40'29
direct	14223 Aug 25 13:21	24°  S 	33'49	direct	14224 Aug 07 18:06	8°  S 	01'43
	14223 Sep 05 11:37	0° 		desc. node	14224 Aug 08 04:14	8°  S 	02'22
morning max el	14223 Sep 08 03:13	2°  S 	30'23	morning max el	14224 Aug 20 14:27	15°  S 	40'18
	14223 Sep 28 17:50	0° 			14224 Sep 01 09:59	0° 	
morning set	14223 Oct 13 12:39	26°  S 	11'18		14224 Sep 20 13:54	0° 	
	14223 Oct 15 10:52	0° 		morning set	14224 Sep 25 12:53	8°  S 	58'49
asc. node	14223 Oct 16 11:18	2°  S 	03'05	max. Earth dist.	14224 Sep 29 09:20	16°  S 	20'03
max. Earth dist.	14223 Oct 17 23:55	5°  S 	10'22	asc. node	14224 Oct 02 07:53	22°  S 	09'45
superior conj	14223 Oct 21 18:51	13°  S 	07'49	superior conj	14224 Oct 04 15:59	26°  S 	55'10
minimum elong	14223 Oct 21 16:45	12°  S 	56'35	minimum elong	14224 Oct 04 14:47	26°  S 	49'04
evening rise	14223 Oct 28 20:21	28°  S 	19'07		14224 Oct 06 03:45	0° 	
	14223 Oct 29 15:21	0° 		evening rise	14224 Oct 12 05:13	12°  S 	41'05
	14223 Nov 16 01:45	0° 			14224 Oct 21 02:29	0° 	
desc. node	14223 Nov 18 03:10	2°  S 	19'36	evening max el	14224 Oct 31 02:34	13°  S 	51'13
evening max el	14223 Nov 19 07:29	3°  S 	31'40	desc. node	14224 Nov 04 00:26	17°  S 	05'06
retrograde	14223 Dec 02 02:31	9°  S 	51'56	retrograde	14224 Nov 11 12:56	19°  S 	32'12
evening set	14223 Dec 05 16:11	9°  S 	23'58	evening set	14224 Nov 13 23:01	19°  S 	18'03
min. Earth dist.	14223 Dec 13 14:34	5°  S 	50'41	inferior conj	14224 Nov 22 21:07	15°  S 	24'20
inferior conj	14223 Dec 14 05:52	5°  S 	29'12	minimum elong	14224 Nov 22 11:47	15°  S 	37'40
minimum elong	14223 Dec 14 03:37	5°  S	32'22	min. Earth dist.	14224 Nov 23 20:24	14°  S	51'02
morning rise	14223 Dec 22 16:10	1°  S	41'55	morning rise	14224 Dec 01 00:41	11°  S	29'53
direct	14223 Dec 25 23:57	1°  S	17'05	direct	14224 Dec 05 07:36	10°  S	50'30

morning max el	14224 Dec 18 11:45	17°♊14'03	23°14'03	inferior conj	14225 Nov 02 21:36	25°♍34'51	-3°41'09
	14224 Dec 28 15:17	0°♊		minimum elong	14225 Nov 02 12:30	25°♍49'18	3°37'14
asc. node	14224 Dec 29 08:25	1°♊07'35		min. Earth dist.	14225 Nov 05 05:23	24°♍06'21	0.55403 AU
morning set	14225 Jan 10 16:12	24°♊33'01		morning rise	14225 Nov 10 18:48	21°♍13'03	
	14225 Jan 13 04:59	0°♊		direct	14225 Nov 15 23:08	20°♍13'05	
				morning max el	14225 Nov 29 21:16	27°♍11'03	25°02'24
superior conj	14225 Jan 17 13:53	9°♋28'13	1°31'35		14225 Dec 02 15:08	0°♊	
minimum elong	14225 Jan 17 15:26	9°♋36'30	1°32'21	asc. node	14225 Dec 16 05:30	19°♊36'26	
max. Earth dist.	14225 Jan 20 16:23	16°♋04'35	1.33280 AU		14225 Dec 21 17:26	0°♊	
evening rise	14225 Jan 25 10:07	25°♋45'13		morning set	14225 Dec 26 04:02	9°♊15'15	
	14225 Jan 27 14:22	0°♋					
desc. node	14225 Jan 30 23:56	6°♋21'37		superior conj	14226 Jan 01 22:24	24°♊06'20	1°37'24
	14225 Feb 14 12:36	0°♋		minimum elong	14226 Jan 01 22:53	24°♊09'00	1°38'24
evening max el	14225 Feb 28 20:03	17°♋26'58	27°19'40	max. Earth dist.	14226 Jan 03 17:48	28°♊04'24	1.32056 AU
retrograde	14225 Mar 14 10:02	24°♋55'39			14226 Jan 04 15:04	0°♋	
evening set	14225 Mar 21 03:13	22°♋25'27		evening rise	14226 Jan 09 05:03	9°♋41'35	
min. Earth dist.	14225 Mar 24 23:50	18°♋51'57	0.64766 AU	desc. node	14226 Jan 17 20:36	26°♋19'36	
inferior conj	14225 Mar 27 10:52	16°♋11'27	0°04'27		14226 Jan 19 22:51	0°♋	
minimum elong	14225 Mar 27 10:44	16°♋11'47	0°04'12		14226 Feb 10 19:12	0°♋	
transit middle	14225 Mar 27 10:44	16°♋11'47	0°04'12	evening max el	14226 Feb 11 07:16	0°♋29'10	27°34'22
transit begin	14225 Mar 27 07:47	16°♋19'51		retrograde	14226 Feb 25 04:06	7°♋55'10	
transit end	14225 Mar 27 13:41	16°♋03'44		evening set	14226 Mar 04 01:09	5°♋34'08	
asc. node	14225 Mar 27 05:17	16°♋26'43		min. Earth dist.	14226 Mar 07 19:17	2°♋28'22	0.62787 AU
morning rise	14225 Apr 02 20:08	10°♋45'24			14226 Mar 10 08:19	30°♋	
direct	14225 Apr 05 11:19	10°♋09'19		inferior conj	14226 Mar 10 16:46	29°♋39'16	-1°06'30
morning max el	14225 Apr 11 19:19	13°♋25'47	17°53'55	minimum elong	14226 Mar 10 18:59	29°♋33'50	1°05'29
	14225 Apr 23 13:47	0°♋		asc. node	14226 Mar 14 02:46	26°♋33'48	
morning set	14225 Apr 29 06:43	9°♋26'22		morning rise	14226 Mar 17 15:32	24°♋29'22	
desc. node	14225 Apr 29 02:14	9°♋07'47		direct	14226 Mar 19 22:58	24°♋04'23	
	14225 May 11 20:39	0°♋		morning max el	14226 Mar 26 13:06	27°♋25'28	17°46'18
					14226 Mar 28 20:49	0°♋	
superior conj	14225 May 13 03:47	2°♋04'15	-1°35'51	morning set	14226 Apr 11 15:14	22°♋02'06	
minimum elong	14225 May 12 18:56	1°♋29'00	1°35'48	desc. node	14226 Apr 15 22:50	29°♋32'00	
max. Earth dist.	14225 May 17 09:28	8°♋46'22	1.45466 AU		14226 Apr 16 05:20	0°♋	
evening rise	14225 May 29 02:39	26°♋56'07					
	14225 May 31 02:43	0°♋		superior conj	14226 Apr 23 16:08	12°♋36'15	-0°58'15
greatest brilliancy	14225 Jun 12 16:28	18°♋51'44	-0.6m	minimum elong	14226 Apr 23 10:25	12°♋12'34	0°58'03
	14225 Jun 20 20:08	0°♋		max. Earth dist.	14226 Apr 30 02:58	23°♋06'32	1.44342 AU
asc. node	14225 Jun 23 02:58	2°♋40'22			14226 May 04 11:25	0°♋	
evening max el	14225 Jun 24 11:07	4°♋04'54	19°51'03	evening rise	14226 May 08 14:14	6°♋23'47	
retrograde	14225 Jul 01 22:35	8°♋19'03			14226 May 24 10:29	0°♋	
evening set	14225 Jul 05 18:43	6°♋53'40		evening max el	14226 Jun 07 10:46	17°♋54'46	20°56'55
inferior conj	14225 Jul 11 02:15	0°♋55'07	3°08'48	asc. node	14226 Jun 09 23:58	20°♋13'16	
minimum elong	14225 Jul 11 02:56	0°♋52'48	3°07'47	retrograde	14226 Jun 15 21:35	22°♋48'40	
	14225 Jul 11 18:36	30°♋		evening set	14226 Jun 20 04:04	21°♋06'27	
min. Earth dist.	14225 Jul 12 03:19	29°♋30'45	0.67803 AU	inferior conj	14226 Jun 25 09:54	14°♋56'20	3°10'42
morning rise	14225 Jul 16 10:45	24°♋31'20		minimum elong	14226 Jun 25 09:35	14°♋57'26	3°09'38
direct	14225 Jul 22 05:01	21°♋59'42		min. Earth dist.	14226 Jun 25 21:19	14°♋16'42	0.68630 AU
desc. node	14225 Jul 26 01:36	22°♋55'47		morning rise	14226 Jun 30 14:50	8°♋36'49	
morning max el	14225 Aug 03 01:14	29°♋05'34	24°56'54	direct	14226 Jul 05 21:04	6°♋18'47	
	14225 Aug 03 22:19	0°♋		desc. node	14226 Jul 12 22:55	9°♋26'04	
	14225 Aug 26 04:45	0°♋		morning max el	14226 Jul 16 11:53	12°♋38'44	23°28'01
morning set	14225 Sep 07 20:49	21°♋02'06			14226 Jul 30 10:52	0°♋	
max. Earth dist.	14225 Sep 11 10:25	27°♋28'22	1.36963 AU		14226 Aug 19 00:49	0°♋	
	14225 Sep 12 19:10	0°♋		morning set	14226 Aug 20 07:52	2°♋09'38	
				max. Earth dist.	14226 Aug 24 08:14	9°♋01'32	1.39315 AU
superior conj	14225 Sep 18 03:05	10°♋12'32	-0°09'46				
minimum elong	14225 Sep 18 03:42	10°♋15'34	0°09'33	superior conj	14226 Sep 01 00:24	22°♋50'40	-0°44'34
behind sun begin	14225 Sep 17 22:23	9°♋49'29		minimum elong	14226 Sep 01 03:40	23°♋05'53	0°44'14
behind sun end	14225 Sep 18 09:02	10°♋41'42			14226 Sep 04 19:21	0°♋	
asc. node	14225 Sep 19 04:27	12°♋17'28		asc. node	14226 Sep 06 01:00	2°♋22'17	
evening rise	14225 Sep 26 09:54	26°♋50'14		evening rise	14226 Sep 10 07:33	10°♋38'49	
	14225 Sep 27 23:41	0°♋			14226 Sep 21 01:39	0°♋	
evening max el	14225 Oct 13 11:45	24°♋56'05	19°34'31	evening max el	14226 Sep 26 10:17	6°♋50'12	18°43'05
desc. node	14225 Oct 21 21:47	29°♋44'13		retrograde	14226 Oct 04 17:19	11°♋00'49	
retrograde	14225 Oct 23 06:46	29°♋49'47		evening set	14226 Oct 06 15:09	10°♋48'19	
evening set	14225 Oct 25 04:17	29°♋39'35		desc. node	14226 Oct 08 19:14	10°♋06'01	

inferior conj	14226 Oct 14 17:22	6°♄24'56	-1°53'09	minimum elong	14227 Sep 26 10:25	18°♄02'35	0°13'50
minimum elong	14226 Oct 14 12:43	6°♄33'31	1°50'46	transit middle	14227 Sep 26 10:25	18°♄02'35	0°13'50
min. Earth dist.	14226 Oct 17 19:54	4°♄08'07	0.57026 AU	transit begin	14227 Sep 26 08:38	18°♄06'25	
morning rise	14226 Oct 22 06:56	1°♄26'16		transit end	14227 Sep 26 12:11	17°♄58'45	
direct	14226 Oct 28 05:07	0°♄00'23		min. Earth dist.	14227 Sep 29 17:51	15°♄12'37	0.59140 AU
morning max el	14226 Nov 11 10:53	7°♄25'21	26°34'52	morning rise	14227 Oct 03 14:26	12°♄28'07	
	14226 Nov 28 06:20	0°♄		direct	14227 Oct 10 00:46	10°♄35'11	
asc. node	14226 Dec 03 02:31	8°♄39'41		morning max el	14227 Oct 24 08:02	18°♄19'29	27°36'04
morning set	14226 Dec 10 14:24	23°♄49'36			14227 Nov 03 03:36	0°♄	
	14226 Dec 13 10:25	0°♄		asc. node	14227 Nov 19 23:24	28°♄07'42	
					14227 Nov 20 22:06	0°♄	
superior conj	14226 Dec 17 09:26	8°♄48'39	1°37'08	morning set	14227 Nov 24 21:28	8°♄10'37	
minimum elong	14226 Dec 17 08:51	8°♄45'24	1°38'11				
max. Earth dist.	14226 Dec 18 00:19	10°♄11'38	1.31334 AU	superior conj	14227 Dec 01 21:00	23°♄28'44	1°30'58
evening rise	14226 Dec 24 07:14	23°♄55'16		minimum elong	14227 Dec 01 19:30	23°♄20'20	1°31'53
	14226 Dec 27 05:45	0°♄		max. Earth dist.	14227 Dec 01 08:32	22°♄19'05	1.31140 AU
desc. node	14227 Jan 04 17:23	15°♄54'04			14227 Dec 04 19:06	0°♄	
	14227 Jan 13 17:54	0°♄		evening rise	14227 Dec 08 14:19	8°♄19'35	
evening max el	14227 Jan 24 14:13	12°♄51'39	27°16'25		14227 Dec 19 16:04	0°♄	
retrograde	14227 Feb 07 13:51	20°♄09'12		desc. node	14227 Dec 22 14:16	4°♄55'07	
evening set	14227 Feb 14 09:01	18°♄05'35		evening max el	14228 Jan 06 14:10	24°♄23'19	26°23'33
min. Earth dist.	14227 Feb 18 04:45	15°♄19'53	0.60618 AU		14228 Jan 14 09:09	0°♄	
inferior conj	14227 Feb 21 08:37	12°♄37'24	-2°27'42	retrograde	14228 Jan 20 13:15	1°♄29'36	
minimum elong	14227 Feb 21 13:59	12°♄25'53	2°25'12	evening set	14228 Jan 26 22:57	29°♄50'35	
morning rise	14227 Feb 28 22:10	7°♄46'18			14228 Jan 26 15:16	30°♄	
asc. node	14227 Mar 01 00:15	7°♄44'54		min. Earth dist.	14228 Jan 31 03:44	27°♄13'43	0.58444 AU
direct	14227 Mar 03 00:06	7°♄28'44		inferior conj	14228 Feb 03 06:39	24°♄54'32	-3°53'19
morning max el	14227 Mar 10 04:45	11°♄05'00	17°56'58	minimum elong	14228 Feb 03 14:58	24°♄39'03	3°49'54
	14227 Mar 22 17:59	0°♄		morning rise	14228 Feb 11 10:02	20°♄24'40	
morning set	14227 Mar 25 18:36	5°♄30'36		direct	14228 Feb 13 10:27	20°♄10'47	
desc. node	14227 Apr 02 19:24	20°♄03'40		asc. node	14228 Feb 15 21:43	20°♄32'36	
				morning max el	14228 Feb 21 14:26	24°♄12'22	18°27'29
superior conj	14227 Apr 05 04:31	24°♄14'57	-0°18'58		14228 Feb 26 07:58	0°♄	
minimum elong	14227 Apr 05 02:51	24°♄07'41	0°19'02	morning set	14228 Mar 08 11:10	19°♄34'11	
	14227 Apr 08 12:37	0°♄			14228 Mar 13 22:09	0°♄	
max. Earth dist.	14227 Apr 12 16:25	6°♄58'00	1.42647 AU	superior conj	14228 Mar 17 14:15	6°♄51'33	0°16'47
evening rise	14227 Apr 18 13:45	16°♄28'55		minimum elong	14228 Mar 17 15:26	6°♄56'57	0°16'34
	14227 Apr 27 08:25	0°♄		desc. node	14228 Mar 19 15:56	10°♄38'19	
	14227 May 19 12:52	0°♄		max. Earth dist.	14228 Mar 25 01:39	20°♄10'56	1.40551 AU
evening max el	14227 May 21 05:15	1°♄45'33	22°12'55	evening rise	14228 Mar 29 09:09	27°♄27'38	
asc. node	14227 May 27 21:05	6°♄44'34			14228 Mar 30 22:14	0°♄	
retrograde	14227 May 30 19:19	7°♄23'09			14228 Apr 19 22:47	0°♄	
evening set	14227 Jun 04 12:52	5°♄25'01		evening max el	14228 May 02 20:19	15°♄37'53	23°33'49
	14227 Jun 09 03:43	30°♄		retrograde	14228 May 13 14:23	21°♄57'05	
inferior conj	14227 Jun 09 19:27	29°♄05'13	3°01'37	asc. node	14228 May 13 18:17	21°♄56'58	
minimum elong	14227 Jun 09 18:15	29°♄09'25	3°00'26	evening set	14228 May 18 19:33	19°♄44'48	
min. Earth dist.	14227 Jun 09 17:46	29°♄11'07	0.68984 AU	min. Earth dist.	14228 May 23 14:26	14°♄07'39	0.68857 AU
morning rise	14227 Jun 14 23:26	22°♄52'04		inferior conj	14228 May 24 04:56	13°♄17'52	2°42'13
direct	14227 Jun 19 17:06	20°♄52'01		minimum elong	14228 May 24 03:05	13°♄24'15	2°40'53
morning max el	14227 Jun 29 00:48	26°♄19'28	21°59'48	morning rise	14228 May 29 10:35	7°♄12'31	
desc. node	14227 Jun 29 20:08	27°♄09'03		direct	14228 Jun 02 15:45	5°♄32'46	
	14227 Jul 02 09:46	0°♄		morning max el	14228 Jun 10 19:11	10°♄10'51	20°39'43
	14227 Jul 23 22:58	0°♄		desc. node	14228 Jun 15 17:14	15°♄45'20	
morning set	14227 Jul 31 18:25	12°♄12'40			14228 Jun 26 02:32	0°♄	
max. Earth dist.	14227 Aug 06 09:26	21°♄23'36	1.41622 AU	morning set	14228 Jul 10 06:20	21°♄18'01	
	14227 Aug 11 11:20	0°♄			14228 Jul 15 19:26	0°♄	
superior conj	14227 Aug 14 03:33	4°♄39'48	-1°19'49	max. Earth dist.	14228 Jul 18 17:38	4°♄40'42	1.43602 AU
minimum elong	14227 Aug 14 09:40	5°♄06'45	1°19'32				
asc. node	14227 Aug 23 21:34	22°♄20'31		superior conj	14228 Jul 25 08:25	15°♄31'12	-1°50'40
evening rise	14227 Aug 24 18:35	23°♄57'46		minimum elong	14228 Jul 25 15:48	16°♄02'00	1°50'50
	14227 Aug 28 01:15	0°♄			14228 Aug 02 20:04	0°♄	
evening max el	14227 Sep 09 18:15	19°♄25'35	18°12'52	evening rise	14228 Aug 06 14:29	6°♄35'59	
retrograde	14227 Sep 16 23:02	23°♄05'26		asc. node	14228 Aug 09 18:10	12°♄08'18	
evening set	14227 Sep 19 03:00	22°♄46'09			14228 Aug 21 01:09	0°♄	
desc. node	14227 Sep 25 16:44	18°♄40'21		evening max el	14228 Aug 23 07:22	2°♄31'48	18°02'24
inferior conj	14227 Sep 26 10:55	18°♄01'31	-0°14'15	retrograde	14228 Aug 29 20:58	5°♄55'22	

evening set	14228 Sep 01 08:48	5° <u>♄</u> 25'38		evening max el	14229 Aug 06 21:50	15° <u>♄</u> 58'47	18°10'32
inferior conj	14228 Sep 07 23:57	0° <u>♄</u> 21'06	1°04'31	retrograde	14229 Aug 13 06:25	19° <u>♄</u> 19'54	
minimum elong	14228 Sep 08 01:44	0° <u>♄</u> 16'39	1°03'48	evening set	14229 Aug 16 02:40	18° <u>♄</u> 36'49	
	14228 Sep 08 08:25	30° <u>♄</u>		inferior conj	14229 Aug 22 04:25	13° <u>♄</u> 14'57	2°01'51
min. Earth dist.	14228 Sep 11 01:00	27° <u>♄</u> 21'03	0.61427 AU	minimum elong	14229 Aug 22 06:52	13° <u>♄</u> 08'06	2°00'45
desc. node	14228 Sep 11 14:16	26° <u>♄</u> 50'07		min. Earth dist.	14229 Aug 24 17:58	10° <u>♄</u> 23'55	0.63631 AU
morning rise	14228 Sep 14 15:59	24° <u>♄</u> 21'19		morning rise	14229 Aug 28 09:15	6° <u>♄</u> 58'45	
direct	14228 Sep 21 07:44	22° <u>♄</u> 05'03		desc. node	14229 Aug 29 11:48	6° <u>♄</u> 11'45	
	14228 Oct 05 11:42	0° <u>♄</u>		direct	14229 Sep 04 00:25	4° <u>♄</u> 26'20	
morning max el	14228 Oct 05 12:29	0° <u>♄</u> 01'56	27°58'46	morning max el	14229 Sep 17 21:44	12° <u>♄</u> 27'08	27°43'25
	14228 Oct 27 05:24	0° <u>♄</u>			14229 Oct 01 22:21	0° <u>♄</u>	
asc. node	14228 Nov 05 20:11	17° <u>♄</u> 53'28			14229 Oct 19 17:27	0° <u>♄</u>	
morning set	14228 Nov 07 23:19	22° <u>♄</u> 14'02		morning set	14229 Oct 22 17:34	5° <u>♄</u> 53'20	
	14228 Nov 11 15:22	0° <u>♄</u>		asc. node	14229 Oct 23 16:52	7° <u>♄</u> 50'41	
max. Earth dist.	14228 Nov 13 14:47	4° <u>♄</u> 18'19	1.31480 AU	max. Earth dist.	14229 Oct 27 14:58	15° <u>♄</u> 58'44	1.32359 AU
superior conj	14228 Nov 15 07:17	8° <u>♄</u> 01'38	1°18'59	superior conj	14229 Oct 30 14:15	22° <u>♄</u> 21'13	1°01'11
minimum elong	14228 Nov 15 05:09	7° <u>♄</u> 49'53	1°19'38	minimum elong	14229 Oct 30 11:57	22° <u>♄</u> 08'48	1°01'34
evening rise	14228 Nov 22 00:20	22° <u>♄</u> 49'48			14229 Nov 03 02:20	0° <u>♄</u>	
	14228 Nov 25 09:47	0° <u>♄</u>		evening rise	14229 Nov 06 11:21	7° <u>♄</u> 20'09	
desc. node	14228 Dec 08 11:16	23° <u>♄</u> 10'26			14229 Nov 18 04:22	0° <u>♄</u>	
	14228 Dec 13 13:40	0° <u>♄</u>		desc. node	14229 Nov 25 08:22	10° <u>♄</u> 22'32	
evening max el	14228 Dec 18 05:34	5° <u>♄</u> 02'50	25°00'14	evening max el	14229 Nov 29 15:20	15° <u>♄</u> 06'19	23°19'37
retrograde	14229 Jan 01 00:29	11° <u>♄</u> 57'05		retrograde	14229 Dec 12 23:05	21° <u>♄</u> 43'30	
evening set	14229 Jan 06 14:57	10° <u>♄</u> 46'55		evening set	14229 Dec 17 07:51	21° <u>♄</u> 02'05	
min. Earth dist.	14229 Jan 11 17:30	8° <u>♄</u> 03'08	0.56509 AU	min. Earth dist.	14229 Dec 24 01:25	17° <u>♄</u> 52'00	0.55094 AU
inferior conj	14229 Jan 14 08:04	6° <u>♄</u> 22'11	-5°09'52	inferior conj	14229 Dec 25 13:29	16° <u>♄</u> 59'41	-5°55'04
minimum elong	14229 Jan 14 16:36	6° <u>♄</u> 08'23	5°07'07	minimum elong	14229 Dec 25 16:31	16° <u>♄</u> 55'17	5°53'51
morning rise	14229 Jan 22 20:35	2° <u>♄</u> 14'09		morning rise	14230 Jan 03 02:48	13° <u>♄</u> 08'27	
direct	14229 Jan 25 02:03	2° <u>♄</u> 00'07		direct	14230 Jan 05 22:17	12° <u>♄</u> 49'31	
asc. node	14229 Feb 01 19:06	5° <u>♄</u> 01'47		morning max el	14230 Jan 17 00:03	18° <u>♄</u> 07'51	20°35'25
morning max el	14229 Feb 03 14:02	6° <u>♄</u> 36'23	19°19'51	asc. node	14230 Jan 19 16:26	21° <u>♄</u> 00'02	
	14229 Feb 18 12:10	0° <u>♄</u>			14230 Jan 26 00:14	0° <u>♄</u>	
morning set	14229 Feb 20 12:40	4° <u>♄</u> 00'08		morning set	14230 Feb 04 19:56	18° <u>♄</u> 39'15	
					14230 Feb 10 07:18	0° <u>♄</u>	
superior conj	14229 Feb 28 16:52	20° <u>♄</u> 13'42	0°46'29	superior conj	14230 Feb 12 08:01	4° <u>♄</u> 09'26	1°09'21
minimum elong	14229 Feb 28 19:21	20° <u>♄</u> 25'48	0°46'23	minimum elong	14230 Feb 12 10:39	4° <u>♄</u> 22'52	1°09'33
	14229 Mar 05 20:40	0° <u>♄</u>		max. Earth dist.	14230 Feb 17 15:56	14° <u>♄</u> 43'28	1.36091 AU
desc. node	14229 Mar 06 12:26	1° <u>♄</u> 12'29		desc. node	14230 Feb 21 08:57	21° <u>♄</u> 42'41	
max. Earth dist.	14229 Mar 07 08:14	2° <u>♄</u> 42'44	1.38283 AU	evening rise	14230 Feb 21 12:26	21° <u>♄</u> 58'41	
evening rise	14229 Mar 11 01:31	9° <u>♄</u> 19'51			14230 Feb 26 00:12	0° <u>♄</u>	
	14229 Mar 23 18:03	0° <u>♄</u>		evening max el	14230 Mar 17 13:48	0° <u>♄</u>	
evening max el	14229 Apr 15 09:52	29° <u>♄</u> 31'04	24°53'10		14230 Mar 28 23:19	13° <u>♄</u> 21'57	26°03'53
	14229 Apr 15 21:44	0° <u>♄</u>		retrograde	14230 Apr 10 16:22	20° <u>♄</u> 38'45	
retrograde	14229 Apr 27 05:42	6° <u>♄</u> 24'33		evening set	14230 Apr 16 20:01	18° <u>♄</u> 08'08	
asc. node	14229 Apr 30 15:35	5° <u>♄</u> 34'25		asc. node	14230 Apr 17 12:57	17° <u>♄</u> 31'06	
evening set	14229 May 02 22:29	4° <u>♄</u> 00'58		min. Earth dist.	14230 Apr 21 00:12	13° <u>♄</u> 42'50	0.67215 AU
	14229 May 06 14:48	30° <u>♄</u>		inferior conj	14230 Apr 22 16:01	11° <u>♄</u> 38'46	1°31'57
min. Earth dist.	14229 May 07 09:15	29° <u>♄</u> 00'18	0.68261 AU	minimum elong	14230 Apr 22 14:04	11° <u>♄</u> 44'51	1°30'41
inferior conj	14229 May 08 12:27	27° <u>♄</u> 30'25	2°12'28	morning rise	14230 Apr 28 08:54	5° <u>♄</u> 52'35	
minimum elong	14229 May 08 10:18	27° <u>♄</u> 37'32	2°11'04	direct	14230 May 01 15:02	4° <u>♄</u> 52'20	
morning rise	14229 May 13 22:23	21° <u>♄</u> 34'01		morning max el	14230 May 08 06:00	8° <u>♄</u> 25'18	18°41'03
direct	14229 May 17 15:36	20° <u>♄</u> 14'46		desc. node	14230 May 20 11:04	24° <u>♄</u> 44'24	
morning max el	14229 May 24 20:59	24° <u>♄</u> 13'51	19°32'35		14230 May 23 21:10	0° <u>♄</u>	
	14229 May 29 21:08	0° <u>♄</u>		morning set	14230 May 29 21:59	9° <u>♄</u> 24'17	
desc. node	14229 Jun 02 14:13	5° <u>♄</u> 00'34			14230 Jun 12 02:43	0° <u>♄</u>	
greatest brilliancy	14229 Jun 06 12:09	10° <u>♄</u> 38'08	-0.6m	max. Earth dist.	14230 Jun 14 02:27	3° <u>♄</u> 06'12	1.45792 AU
morning set	14229 Jun 19 08:28	0° <u>♄</u>		superior conj	14230 Jun 15 01:34	4° <u>♄</u> 36'31	-2°11'57
	14229 Jun 19 07:51	0° <u>♄</u>		minimum elong	14230 Jun 14 22:18	4° <u>♄</u> 23'47	2°12'56
max. Earth dist.	14229 Jul 01 08:07	18° <u>♄</u> 40'28	1.45039 AU	evening rise	14230 Jun 30 13:21	29° <u>♄</u> 03'48	
superior conj	14229 Jul 05 13:40	25° <u>♄</u> 23'29	-2°10'18		14230 Jul 01 03:26	0° <u>♄</u>	
minimum elong	14229 Jul 05 17:54	25° <u>♄</u> 40'25	2°11'09	greatest brilliancy	14230 Jul 07 11:28	10° <u>♄</u> 05'54	-0.9m
	14229 Jul 08 10:32	0° <u>♄</u>		asc. node	14230 Jul 14 11:33	20° <u>♄</u> 51'12	
evening rise	14229 Jul 19 14:04	18° <u>♄</u> 20'35		evening max el	14230 Jul 21 10:41	29° <u>♄</u> 39'35	18°36'29
	14229 Jul 26 14:11	0° <u>♄</u>			14230 Jul 21 19:05	0° <u>♄</u>	
asc. node	14229 Jul 27 14:49	1° <u>♄</u> 40'22					

retrograde	14230 Jul 27 23:19	3° $\mathbb{M}$ 11'28		greatest brilliancy	14231 Jun 22 22:09	27° $\mathbb{S}$ 45'59	-0.7m
evening set	14230 Jul 31 04:23	2° $\mathbb{M}$ 12'54			14231 Jun 24 10:20	0° $\mathcal{Q}$	
	14230 Aug 02 21:05	30° $\mathcal{R}\mathcal{Q}$		asc. node	14231 Jul 01 08:23	9° $\mathcal{Q}$ 32'33	
inferior conj	14230 Aug 05 20:27	26° $\mathcal{Q}$ 35'45	2°40'02	evening max el	14231 Jul 04 19:28	13° $\mathcal{Q}$ 27'32	19°19'25
minimum elong	14230 Aug 05 22:33	26° $\mathcal{Q}$ 29'19	2°38'56	retrograde	14231 Jul 11 20:25	17° $\mathcal{Q}$ 22'40	
min. Earth dist.	14230 Aug 07 20:11	24° $\mathcal{Q}$ 10'07	0.65571 AU	evening set	14231 Jul 15 10:53	16° $\mathcal{Q}$ 07'16	
morning rise	14230 Aug 11 15:38	20° $\mathcal{Q}$ 12'00		inferior conj	14231 Jul 20 20:40	10° $\mathcal{Q}$ 16'23	3°02'12
desc. node	14230 Aug 16 09:18	17° $\mathcal{Q}$ 42'51		minimum elong	14231 Jul 20 21:56	10° $\mathcal{Q}$ 12'15	3°01'11
direct	14230 Aug 18 01:22	17° $\mathcal{Q}$ 32'34		min. Earth dist.	14231 Jul 22 05:59	8° $\mathcal{Q}$ 27'30	0.67121 AU
morning max el	14230 Aug 31 08:52	25° $\mathcal{Q}$ 24'13	26°55'45	morning rise	14231 Jul 26 08:23	3° $\mathcal{Q}$ 51'27	
	14230 Sep 04 13:47	0° $\mathbb{M}$		direct	14231 Aug 01 09:06	1° $\mathcal{Q}$ 14'28	
	14230 Sep 25 10:30	0° $\mathcal{Q}$		desc. node	14231 Aug 03 06:43	1° $\mathcal{Q}$ 28'05	
morning set	14230 Oct 06 01:22	19° $\mathcal{Q}$ 02'07		morning max el	14231 Aug 13 19:49	8° $\mathcal{Q}$ 41'10	25°44'34
max. Earth dist.	14230 Oct 10 05:52	27° $\mathcal{Q}$ 16'27	1.33780 AU		14231 Aug 30 13:49	0° $\mathbb{M}$	
asc. node	14230 Oct 10 13:30	27° $\mathcal{Q}$ 55'01			14231 Sep 17 22:55	0° $\mathcal{Q}$	
	14230 Oct 11 14:04	0° $\mathbb{M}$		morning set	14231 Sep 18 19:13	1° $\mathcal{Q}$ 32'13	
				max. Earth dist.	14231 Sep 22 10:56	8° $\mathcal{Q}$ 21'02	1.35693 AU
superior conj	14230 Oct 14 15:43	6° $\mathbb{M}$ 22'04	0°37'41	asc. node	14231 Sep 27 10:05	18° $\mathcal{Q}$ 02'47	
minimum elong	14230 Oct 14 13:54	6° $\mathbb{M}$ 12'31	0°37'53				
evening rise	14230 Oct 21 21:34	21° $\mathbb{M}$ 46'18		superior conj	14231 Sep 28 09:02	19° $\mathcal{Q}$ 58'01	0°08'54
	14230 Oct 25 21:06	0° $\mathcal{R}$		minimum elong	14231 Sep 28 08:30	19° $\mathcal{Q}$ 55'19	0°09'04
evening max el	14230 Nov 11 04:24	25° $\mathcal{R}$ 09'41	21°39'32	behind sun begin	14231 Sep 28 03:21	19° $\mathcal{Q}$ 29'22	
desc. node	14230 Nov 12 05:34	26° $\mathcal{R}$ 09'03		behind sun end	14231 Sep 28 13:39	20° $\mathcal{Q}$ 21'20	
	14230 Nov 17 21:27	0° $\mathcal{S}$			14231 Oct 03 06:36	0° $\mathbb{M}$	
retrograde	14230 Nov 23 11:28	1° $\mathcal{S}$ 15'16		evening rise	14231 Oct 06 04:58	6° $\mathbb{M}$ 03'34	
evening set	14230 Nov 26 11:35	0° $\mathcal{S}$ 54'49			14231 Oct 19 10:07	0° $\mathcal{R}$	
	14230 Nov 29 09:20	30° $\mathcal{R}\mathcal{R}$		evening max el	14231 Oct 24 05:26	5° $\mathcal{R}$ 47'48	20°14'10
inferior conj	14230 Dec 05 06:10	27° $\mathcal{R}$ 02'08	-5°45'45	desc. node	14231 Oct 30 02:53	10° $\mathcal{R}$ 04'02	
minimum elong	14230 Dec 05 00:11	27° $\mathcal{R}$ 10'31	5°43'59	retrograde	14231 Nov 03 23:05	11° $\mathcal{R}$ 08'17	
min. Earth dist.	14230 Dec 05 07:25	27° $\mathcal{R}$ 00'21	0.54477 AU	evening set	14231 Nov 06 01:54	10° $\mathcal{R}$ 56'47	
morning rise	14230 Dec 13 13:32	23° $\mathcal{R}$ 14'01		inferior conj	14231 Nov 14 23:43	7° $\mathcal{R}$ 00'10	-4°38'01
direct	14230 Dec 17 06:51	22° $\mathcal{R}$ 43'49		minimum elong	14231 Nov 14 13:36	7° $\mathcal{R}$ 15'08	4°34'18
morning max el	14230 Dec 29 19:45	28° $\mathcal{R}$ 45'45	22°12'07	min. Earth dist.	14231 Nov 16 14:25	6° $\mathcal{R}$ 02'52	0.54805 AU
	14230 Dec 31 01:42	0° $\mathcal{S}$		morning rise	14231 Nov 23 00:31	2° $\mathcal{R}$ 56'06	
asc. node	14231 Jan 06 13:41	8° $\mathcal{S}$ 09'34		direct	14231 Nov 27 17:12	2° $\mathcal{R}$ 08'23	
	14231 Jan 18 15:33	0° $\approx$		morning max el	14231 Dec 11 06:12	8° $\mathcal{R}$ 47'47	24°00'51
morning set	14231 Jan 20 06:30	3° $\approx$ 24'00		asc. node	14231 Dec 24 10:51	26° $\mathcal{R}$ 13'51	
					14231 Dec 26 15:03	0° $\mathcal{S}$	
superior conj	14231 Jan 27 08:04	18° $\approx$ 27'56	1°25'21	morning set	14232 Jan 04 18:26	18° $\mathcal{S}$ 08'53	
minimum elong	14231 Jan 27 10:08	18° $\approx$ 38'51	1°25'56		14232 Jan 10 05:03	0° $\approx$	
max. Earth dist.	14231 Jan 31 05:27	26° $\approx$ 33'26	1.34187 AU				
	14231 Feb 01 22:22	0° $\mathcal{H}$		superior conj	14232 Jan 11 14:14	3° $\approx$ 01'06	1°34'48
evening rise	14231 Feb 04 14:24	5° $\mathcal{H}$ 14'34		minimum elong	14232 Jan 11 15:20	3° $\approx$ 07'07	1°35'41
desc. node	14231 Feb 08 05:29	12° $\mathcal{H}$ 04'25		max. Earth dist.	14232 Jan 14 02:59	8° $\approx$ 29'09	1.32700 AU
	14231 Feb 18 18:20	0° $\mathcal{Y}$		evening rise	14232 Jan 19 04:04	18° $\approx$ 58'51	
evening max el	14231 Mar 11 13:02	27° $\mathcal{Y}$ 03'12	26°58'32		14232 Jan 24 21:01	0° $\mathcal{H}$	
	14231 Mar 14 20:31	0° $\mathcal{B}$		desc. node	14232 Jan 26 02:08	2° $\mathcal{H}$ 13'05	
retrograde	14231 Mar 24 21:21	4° $\mathcal{B}$ 30'49			14232 Feb 12 22:41	0° $\mathcal{Y}$	
evening set	14231 Mar 31 10:12	1° $\mathcal{B}$ 58'47		evening max el	14232 Feb 22 01:58	10° $\mathcal{Y}$ 24'19	27°29'42
	14231 Apr 02 14:57	30° $\mathcal{R}\mathcal{Y}$		retrograde	14232 Mar 06 19:32	17° $\mathcal{Y}$ 52'16	
asc. node	14231 Apr 04 10:23	28° $\mathcal{Y}$ 03'36		evening set	14232 Mar 13 14:48	15° $\mathcal{Y}$ 25'22	
min. Earth dist.	14231 Apr 04 09:11	28° $\mathcal{Y}$ 06'58	0.65762 AU	min. Earth dist.	14232 Mar 17 10:11	12° $\mathcal{Y}$ 04'03	0.63959 AU
inferior conj	14231 Apr 06 13:21	25° $\mathcal{Y}$ 36'53	0°39'54	inferior conj	14232 Mar 20 01:49	9° $\mathcal{Y}$ 18'29	-0°24'11
minimum elong	14231 Apr 06 12:19	25° $\mathcal{Y}$ 39'53	0°39'09	minimum elong	14232 Mar 20 02:34	9° $\mathcal{Y}$ 16'31	0°23'57
morning rise	14231 Apr 12 15:53	20° $\mathcal{Y}$ 02'38		asc. node	14232 Mar 21 07:51	8° $\mathcal{Y}$ 01'20	
direct	14231 Apr 15 12:06	19° $\mathcal{Y}$ 18'41		morning rise	14232 Mar 26 16:34	3° $\mathcal{Y}$ 58'35	
morning max el	14231 Apr 21 20:27	22° $\mathcal{Y}$ 38'03	18°06'08	direct	14232 Mar 29 04:14	3° $\mathcal{Y}$ 27'37	
	14231 Apr 27 19:33	0° $\mathcal{B}$		morning max el	14232 Apr 04 13:50	6° $\mathcal{Y}$ 44'51	17°48'25
desc. node	14231 May 07 07:47	14° $\mathcal{B}$ 48'19			14232 Apr 20 04:00	0° $\mathcal{B}$	
morning set	14231 May 10 13:24	20° $\mathcal{B}$ 02'26		morning set	14232 Apr 21 08:21	2° $\mathcal{B}$ 00'11	
	14231 May 16 17:41	0° $\mathbb{I}$		desc. node	14232 Apr 23 04:26	5° $\mathcal{B}$ 06'45	
superior conj	14231 May 25 10:54	13° $\mathbb{I}$ 49'12	-1°53'38	superior conj	14232 May 04 10:23	23° $\mathcal{B}$ 44'33	-1°20'34
minimum elong	14231 May 25 02:15	13° $\mathbb{I}$ 15'12	1°53'57	minimum elong	14232 May 04 02:30	23° $\mathcal{B}$ 12'43	1°20'22
max. Earth dist.	14231 May 27 22:20	17° $\mathbb{I}$ 41'59	1.45801 AU		14232 May 08 08:02	0° $\mathbb{I}$	
	14231 Jun 04 20:07	0° $\mathcal{S}$		max. Earth dist.	14232 May 09 17:44	2° $\mathbb{I}$ 13'40	1.45077 AU
evening rise	14231 Jun 10 13:28	8° $\mathcal{S}$ 51'25		evening rise	14232 May 20 01:02	18° $\mathbb{I}$ 14'43	

	14232 May 27 19:18	0°☿		evening rise	14233 Apr 29 16:15	27°♄55'22	
evening max el	14232 Jun 16 22:40	27°☿17'43	20°17'38		14233 May 01 00:25	0°♄	
asc. node	14232 Jun 17 05:19	27°☿34'11			14233 May 21 14:00	0°☿	
	14232 Jun 20 01:54	0°♄		evening max el	14233 May 30 20:00	11°☿08'22	21°28'15
retrograde	14232 Jun 24 19:14	1°♄47'22		asc. node	14233 Jun 04 02:21	14°☿43'24	
evening set	14232 Jun 28 19:46	0°♄14'41		retrograde	14233 Jun 08 17:53	16°☿20'25	
	14232 Jun 29 03:07	30°☿☿		evening set	14233 Jun 13 05:07	14°☿31'01	
inferior conj	14232 Jul 04 02:17	24°☿11'13	3°10'58	inferior conj	14233 Jun 18 10:59	8°☿16'27	3°08'07
minimum elong	14232 Jul 04 02:32	24°☿10'20	3°09'57	minimum elong	14233 Jun 18 10:16	8°☿18'56	3°07'01
min. Earth dist.	14232 Jul 04 21:28	23°☿05'38	0.68221 AU	min. Earth dist.	14233 Jun 18 16:41	7°☿56'33	0.68841 AU
morning rise	14232 Jul 09 08:59	17°☿49'11		morning rise	14233 Jun 23 15:14	1°☿59'40	
direct	14232 Jul 14 22:21	15°☿22'35			14233 Jun 27 04:19	30°☿♄	
desc. node	14232 Jul 20 04:06	17°☿05'51		direct	14233 Jun 28 16:06	29°♄49'07	
morning max el	14232 Jul 26 06:12	22°☿09'27	24°19'28		14233 Jun 30 05:15	0°☿	
	14232 Aug 02 02:34	0°♄		desc. node	14233 Jul 07 01:24	4°☿10'16	
	14232 Aug 22 20:35	0°♄		morning max el	14233 Jul 08 17:34	5°☿46'29	22°49'59
morning set	14232 Aug 30 18:45	13°♄12'40			14233 Jul 27 10:25	0°♄	
max. Earth dist.	14232 Sep 03 09:55	19°♄36'55	1.37956 AU	morning set	14233 Aug 11 19:41	23°♄53'50	
	14232 Sep 09 01:02	0°♄			14233 Aug 15 11:30	0°♄	
				max. Earth dist.	14233 Aug 16 09:09	1°♄32'00	1.40322 AU
superior conj	14232 Sep 10 14:48	3°♄00'05	-0°24'15				
minimum elong	14232 Sep 10 16:27	3°♄08'03	0°23'59	superior conj	14233 Aug 24 04:57	15°♄18'58	-0°59'41
asc. node	14232 Sep 13 06:39	8°♄09'45		minimum elong	14233 Aug 24 09:29	15°♄39'33	0°59'20
evening rise	14232 Sep 19 07:03	20°♄05'02		asc. node	14233 Aug 31 03:12	28°♄12'38	
	14232 Sep 24 09:30	0°♄			14233 Sep 01 01:50	0°♄	
evening max el	14232 Oct 05 20:41	17°♄14'06	19°09'55	evening rise	14233 Sep 03 00:44	3°♄43'00	
retrograde	14232 Oct 14 23:10	21°♄48'08		evening max el	14233 Sep 18 23:42	29°♄26'51	18°27'38
desc. node	14232 Oct 16 00:18	21°♄44'43			14233 Sep 19 13:26	0°♄	
evening set	14232 Oct 16 19:55	21°♄37'26		retrograde	14233 Sep 26 18:21	3°♄23'07	
inferior conj	14232 Oct 25 07:35	17°♄25'08	-2°55'26	evening set	14233 Sep 28 18:18	3°♄08'16	
minimum elong	14232 Oct 25 00:11	17°♄37'37	2°51'59	desc. node	14233 Oct 02 21:46	1°♄14'34	
min. Earth dist.	14232 Oct 28 01:06	15°♄34'57	0.56017 AU		14233 Oct 04 16:48	30°☿♄	
morning rise	14232 Nov 02 01:52	12°♄48'31		inferior conj	14233 Oct 06 12:44	28°♄35'27	-1°09'10
direct	14232 Nov 07 14:32	11°♄38'05		minimum elong	14233 Oct 06 10:02	28°♄40'47	1°07'39
morning max el	14232 Nov 21 16:30	18°♄47'29	25°44'49	min. Earth dist.	14233 Oct 09 18:30	26°♄02'45	0.57885 AU
	14232 Dec 01 02:09	0°♄		morning rise	14233 Oct 13 22:16	23°♄21'03	
asc. node	14232 Dec 10 07:55	14°♄58'37		direct	14233 Oct 20 02:08	21°♄43'51	
	14232 Dec 17 22:20	0°☿		morning max el	14233 Nov 03 09:25	29°♄17'43	27°05'25
morning set	14232 Dec 19 05:52	2°☿48'08			14233 Nov 04 02:34	0°♄	
					14233 Nov 24 22:57	0°♄	
superior conj	14232 Dec 26 00:02	17°☿41'16	1°38'01	asc. node	14233 Nov 27 04:53	4°♄13'32	
minimum elong	14232 Dec 26 00:04	17°☿41'24	1°39'03	morning set	14233 Dec 03 15:03	17°♄17'28	
max. Earth dist.	14232 Dec 27 07:07	20°☿33'19	1.31690 AU		14233 Dec 09 09:55	0°☿	
	14232 Dec 31 15:34	0°☿					
evening rise	14233 Jan 02 02:24	3°☿03'07		superior conj	14233 Dec 10 11:31	2°☿23'03	1°35'14
desc. node	14233 Jan 11 22:51	22°☿01'57		minimum elong	14233 Dec 10 10:31	2°☿17'28	1°36'14
	14233 Jan 16 16:17	0°☿		max. Earth dist.	14233 Dec 10 14:54	2°☿42'01	1.31189 AU
evening max el	14233 Feb 03 11:49	23°☿11'10	27°30'57	evening rise	14233 Dec 17 06:54	17°☿21'36	
	14233 Feb 13 20:52	0°☿			14233 Dec 23 12:11	0°☿	
retrograde	14233 Feb 17 09:54	0°☿33'11		desc. node	14233 Dec 29 19:40	11°☿23'23	
	14233 Feb 20 20:08	30°☿☿			14234 Jan 11 18:42	0°☿	
evening set	14233 Feb 24 07:06	28°☿18'45		evening max el	14234 Jan 16 15:52	5°☿11'50	26°57'58
min. Earth dist.	14233 Feb 28 01:22	25°☿22'43	0.61883 AU	retrograde	14234 Jan 30 15:22	12°☿24'59	
inferior conj	14233 Mar 03 02:10	22°☿34'43	-1°39'54	evening set	14234 Feb 06 07:46	10°☿30'41	
minimum elong	14233 Mar 03 05:40	22°☿26'38	1°38'14	min. Earth dist.	14234 Feb 10 06:00	7°☿50'44	0.59680 AU
asc. node	14233 Mar 08 05:20	18°☿29'08		inferior conj	14234 Feb 13 10:48	5°☿15'59	-3°04'06
morning rise	14233 Mar 10 07:09	17°☿32'21		minimum elong	14234 Feb 13 17:32	5°☿02'20	3°01'05
direct	14233 Mar 12 12:03	17°☿10'50		morning rise	14234 Feb 21 06:34	0°☿34'03	
morning max el	14233 Mar 19 07:05	20°☿36'48	17°48'34	direct	14234 Feb 23 07:19	0°☿18'29	
	14233 Mar 26 08:38	0°☿		asc. node	14234 Feb 23 02:49	0°☿18'37	
morning set	14233 Apr 04 01:41	15°☿00'58		morning max el	14234 Mar 02 20:42	4°☿03'58	18°07'32
desc. node	14233 Apr 10 01:03	25°☿34'53		morning set	14234 Mar 18 11:13	28°☿45'51	
	14233 Apr 12 14:10	0°☿			14234 Mar 19 03:05	0°☿	
				desc. node	14234 Mar 27 21:35	16°☿08'17	
superior conj	14233 Apr 15 09:01	4°☿45'24	-0°41'24				
minimum elong	14233 Apr 15 05:06	4°☿28'47	0°41'18	superior conj	14234 Mar 28 07:00	16°☿50'25	-0°03'11
max. Earth dist.	14233 Apr 22 10:16	16°☿25'38	1.43687 AU	minimum elong	14234 Mar 28 06:44	16°☿49'13	0°03'21



behind sun begin	14234 Mar 27 23:11	16° $\Upsilon$ 15'30			14235 Mar 11 02:56	0° $\Upsilon$	
behind sun end	14234 Mar 28 14:17	17° $\Upsilon$ 22'51		desc. node	14235 Mar 14 18:04	6° $\Upsilon$ 43'34	
	14234 Apr 04 21:27	0° $\mathcal{B}$		max. Earth dist.	14235 Mar 18 05:05	12° $\Upsilon$ 55'02	1.39585 AU
max. Earth dist.	14234 Apr 04 21:53	0° $\mathcal{B}$ 01'46	1.41783 AU	evening rise	14235 Mar 22 04:06	19° $\Upsilon$ 44'41	
evening rise	14234 Apr 09 23:36	8° $\mathcal{B}$ 21'58			14235 Mar 28 10:09	0° $\mathcal{B}$	
	14234 Apr 24 02:44	0° $\Pi$			14235 Apr 18 07:35	0° $\Pi$	
evening max el	14234 May 13 12:35	24° $\Pi$ 59'18	22°47'03	evening max el	14235 Apr 26 02:42	8° $\Pi$ 52'19	24°08'11
	14234 May 19 23:52	0° $\mathcal{E}$		retrograde	14235 May 07 08:29	15° $\Pi$ 27'58	
asc. node	14234 May 21 23:30	0° $\mathcal{E}$ 43'44		asc. node	14235 May 08 20:44	15° $\Pi$ 17'53	
retrograde	14234 May 23 14:45	0° $\mathcal{E}$ 55'48		evening set	14235 May 12 18:29	13° $\Pi$ 10'36	
	14234 May 26 22:43	30° $\mathcal{R}\Pi$		min. Earth dist.	14235 May 17 09:44	7° $\Pi$ 48'46	0.68656 AU
evening set	14234 May 28 13:13	28° $\mathcal{R}\Pi$ 51'11		inferior conj	14235 May 18 05:37	6° $\Pi$ 41'25	2°30'55
inferior conj	14234 Jun 02 20:43	22° $\Pi$ 27'44	2°54'39	minimum elong	14235 May 18 03:35	6° $\Pi$ 48'19	2°29'32
minimum elong	14234 Jun 02 19:13	22° $\Pi$ 32'59	2°53'24	morning rise	14235 May 23 12:44	0° $\Pi$ 39'29	
min. Earth dist.	14234 Jun 02 13:29	22° $\Pi$ 52'54	0.68983 AU		14235 May 24 12:19	30° $\mathcal{R}\mathcal{B}$	
morning rise	14234 Jun 08 01:06	16° $\Pi$ 17'45		direct	14235 May 27 12:40	29° $\mathcal{B}$ 08'33	
direct	14234 Jun 12 13:17	14° $\Pi$ 26'25			14235 May 30 17:36	0° $\Pi$	
morning max el	14234 Jun 21 08:37	19° $\Pi$ 32'23	21°24'27	morning max el	14235 Jun 04 05:59	3° $\Pi$ 29'00	20°09'19
desc. node	14234 Jun 23 22:34	22° $\Pi$ 18'20		desc. node	14235 Jun 10 19:37	11° $\Pi$ 13'02	
	14234 Jun 30 02:30	0° $\mathcal{E}$			14235 Jun 23 22:20	0° $\mathcal{E}$	
	14234 Jul 20 14:05	0° $\Omega$		morning set	14235 Jul 02 01:17	12° $\mathcal{E}$ 20'41	
morning set	14234 Jul 22 19:55	3° $\Omega$ 30'47		max. Earth dist.	14235 Jul 11 23:26	27° $\mathcal{E}$ 52'30	1.44292 AU
max. Earth dist.	14234 Jul 29 13:01	14° $\Omega$ 17'40	1.42517 AU		14235 Jul 13 07:21	0° $\Omega$	
superior conj	14234 Aug 05 22:59	26° $\Omega$ 44'08	-1°33'49	superior conj	14235 Jul 17 17:39	7° $\Omega$ 10'02	-2°00'50
minimum elong	14234 Aug 06 05:59	27° $\Omega$ 14'17	1°33'39	minimum elong	14235 Jul 18 00:22	7° $\Omega$ 37'31	2°01'16
	14234 Aug 07 20:17	0° $\mathcal{M}$		evening rise	14235 Jul 30 17:47	29° $\Omega$ 03'08	
evening rise	14234 Aug 17 05:56	16° $\mathcal{M}$ 46'21			14235 Jul 31 07:00	0° $\mathcal{M}$	
asc. node	14234 Aug 17 23:45	18° $\mathcal{M}$ 07'02		asc. node	14235 Aug 04 20:20	7° $\mathcal{M}$ 48'51	
	14234 Aug 24 16:42	0° $\mathcal{L}$		evening max el	14235 Aug 17 00:24	25° $\mathcal{M}$ 32'58	18°03'40
evening max el	14234 Sep 02 10:16	12° $\mathcal{L}$ 16'26	18°06'03	retrograde	14235 Aug 23 10:40	28° $\mathcal{M}$ 53'35	
retrograde	14234 Sep 09 07:29	15° $\mathcal{L}$ 47'52		evening set	14235 Aug 26 02:03	28° $\mathcal{M}$ 18'31	
evening set	14234 Sep 11 14:33	15° $\mathcal{L}$ 24'41		inferior conj	14235 Sep 01 11:05	23° $\mathcal{M}$ 06'38	1°31'23
inferior conj	14234 Sep 18 15:01	10° $\mathcal{L}$ 31'31	0°21'49	minimum elong	14235 Sep 01 13:19	23° $\mathcal{M}$ 00'47	1°30'24
minimum elong	14234 Sep 18 15:43	10° $\mathcal{L}$ 29'53	0°21'39	min. Earth dist.	14235 Sep 04 07:52	20° $\mathcal{M}$ 07'52	0.62393 AU
desc. node	14234 Sep 19 19:18	9° $\mathcal{L}$ 26'11		desc. node	14235 Sep 06 16:50	17° $\mathcal{M}$ 56'04	
min. Earth dist.	14234 Sep 21 20:29	7° $\mathcal{L}$ 34'56	0.60106 AU	morning rise	14235 Sep 07 22:15	16° $\mathcal{M}$ 58'47	
morning rise	14234 Sep 25 13:40	4° $\mathcal{L}$ 45'18		direct	14235 Sep 14 14:38	14° $\mathcal{M}$ 34'13	
direct	14234 Oct 02 03:01	2° $\mathcal{L}$ 41'34		morning max el	14235 Sep 28 16:41	22° $\mathcal{M}$ 34'18	27°56'31
morning max el	14234 Oct 16 10:04	10° $\mathcal{L}$ 33'09	27°50'32		14235 Oct 05 06:26	0° $\mathcal{L}$	
	14234 Oct 31 13:36	0° $\mathcal{M}$			14235 Oct 24 18:53	0° $\mathcal{M}$	
asc. node	14234 Nov 14 01:44	23° $\mathcal{M}$ 50'06		asc. node	14235 Oct 31 22:26	13° $\mathcal{M}$ 41'24	
	14234 Nov 17 02:32	0° $\mathcal{X}$		morning set	14235 Nov 01 19:03	15° $\mathcal{M}$ 26'00	
morning set	14234 Nov 17 20:10	1° $\mathcal{X}$ 32'05		max. Earth dist.	14235 Nov 07 02:30	26° $\mathcal{M}$ 37'56	1.31782 AU
max. Earth dist.	14234 Nov 23 22:37	14° $\mathcal{X}$ 46'45	1.31212 AU		14235 Nov 08 15:35	0° $\mathcal{X}$	
superior conj	14234 Nov 24 22:46	17° $\mathcal{X}$ 01'07	1°26'36	superior conj	14235 Nov 09 07:52	1° $\mathcal{X}$ 29'23	1°12'08
minimum elong	14234 Nov 24 20:57	16° $\mathcal{X}$ 51'01	1°27'25	minimum elong	14235 Nov 09 05:37	1° $\mathcal{X}$ 16'58	1°12'41
	14234 Nov 30 19:18	0° $\mathcal{Z}$		evening rise	14235 Nov 16 02:05	16° $\mathcal{X}$ 20'06	
evening rise	14234 Dec 01 15:26	1° $\mathcal{Z}$ 49'06			14235 Nov 22 17:45	0° $\mathcal{Z}$	
desc. node	14234 Dec 16 16:34	0° $\approx$ 07'09		desc. node	14235 Dec 03 13:36	17° $\mathcal{Z}$ 58'16	
	14234 Dec 16 14:45	0° $\approx$		evening max el	14235 Dec 11 00:28	26° $\mathcal{Z}$ 42'32	24°18'41
evening max el	14234 Dec 29 12:01	16° $\approx$ 20'38	25°51'16		14235 Dec 14 23:15	0° $\approx$	
retrograde	14235 Jan 12 10:17	23° $\approx$ 22'59		retrograde	14235 Dec 24 16:13	3° $\approx$ 30'27	
evening set	14235 Jan 18 12:56	21° $\approx$ 55'49		evening set	14235 Dec 29 18:51	2° $\approx$ 33'19	
min. Earth dist.	14235 Jan 23 00:57	19° $\approx$ 18'05	0.57566 AU		14236 Jan 03 23:06	30° $\mathcal{R}\mathcal{Z}$	
inferior conj	14235 Jan 26 00:18	17° $\approx$ 13'17	-4°28'04	min. Earth dist.	14236 Jan 04 12:07	29° $\mathcal{Z}$ 40'33	0.55820 AU
minimum elong	14235 Jan 26 09:15	16° $\approx$ 57'36	4°24'43	inferior conj	14236 Jan 06 16:52	28° $\mathcal{Z}$ 19'36	-5°34'28
morning rise	14235 Feb 03 08:27	12° $\approx$ 53'07		minimum elong	14236 Jan 06 23:51	28° $\mathcal{Z}$ 08'52	5°32'24
direct	14235 Feb 05 09:48	12° $\approx$ 39'50		morning rise	14236 Jan 15 06:46	24° $\mathcal{Z}$ 19'22	
asc. node	14235 Feb 10 00:16	13° $\approx$ 50'46		direct	14236 Jan 17 16:57	24° $\mathcal{Z}$ 03'55	
morning max el	14235 Feb 14 02:42	16° $\approx$ 55'20	18°47'02	asc. node	14236 Jan 27 21:39	29° $\mathcal{Z}$ 00'01	
	14235 Feb 23 09:50	0° $\mathcal{H}$		morning max el	14236 Jan 27 20:52	28° $\mathcal{Z}$ 58'07	19°49'06
morning set	14235 Mar 02 08:02	13° $\mathcal{H}$ 00'35			14236 Jan 28 21:18	0° $\approx$	
				morning set	14236 Feb 14 12:19	27° $\approx$ 33'16	
superior conj	14235 Mar 11 00:30	29° $\mathcal{H}$ 48'34	0°30'11		14236 Feb 15 17:14	0° $\mathcal{H}$	
minimum elong	14235 Mar 11 02:24	29° $\mathcal{H}$ 57'32	0°29'58				

superior conj	14236 Feb 22 08:54	13° $\text{H}$ 26'16	0°57'01	superior conj	14237 Feb 05 04:14	27° $\approx$ 32'43	1°16'57
minimum elong	14236 Feb 22 11:35	13° $\text{H}$ 39'30	0°57'02	minimum elong	14237 Feb 05 06:42	27° $\approx$ 45'28	1°17'19
max. Earth dist.	14236 Feb 28 11:28	25° $\text{H}$ 11'20	1.37330 AU		14237 Feb 06 08:50	0° $\text{H}$	
desc. node	14236 Feb 29 14:33	27° $\text{H}$ 16'33		max. Earth dist.	14237 Feb 09 21:36	7° $\text{H}$ 06'48	1.35244 AU
	14236 Mar 02 02:26	0° $\text{Y}$		evening rise	14237 Feb 13 22:35	14° $\text{H}$ 53'59	
evening rise	14236 Mar 03 04:48	1° $\text{Y}$ 58'16		desc. node	14237 Feb 15 11:04	17° $\text{H}$ 43'37	
	14236 Mar 20 13:29	0° $\text{B}$			14237 Feb 22 10:42	0° $\text{Y}$	
evening max el	14236 Apr 07 16:18	22° $\text{B}$ 45'53	25°24'49		14237 Mar 15 05:17	0° $\text{B}$	
retrograde	14236 Apr 19 21:52	29° $\text{B}$ 50'23		evening max el	14237 Mar 21 06:03	6° $\text{B}$ 34'09	26°29'32
asc. node	14236 Apr 24 18:05	28° $\text{B}$ 12'09		retrograde	14237 Apr 03 06:00	13° $\text{B}$ 56'04	
evening set	14236 Apr 25 19:19	27° $\text{B}$ 23'33		evening set	14237 Apr 09 13:56	11° $\text{B}$ 24'11	
min. Earth dist.	14236 Apr 30 03:14	22° $\text{B}$ 37'52	0.67869 AU	asc. node	14237 Apr 11 15:30	9° $\text{B}$ 28'49	
inferior conj	14236 May 01 11:42	20° $\text{B}$ 52'56	1°56'41	min. Earth dist.	14237 Apr 13 15:49	7° $\text{B}$ 13'30	0.66649 AU
minimum elong	14236 May 01 09:34	20° $\text{B}$ 59'51	1°55'17	inferior conj	14237 Apr 15 12:55	4° $\text{B}$ 57'28	1°11'20
morning rise	14236 May 07 00:14	15° $\text{B}$ 00'27		minimum elong	14237 Apr 15 11:15	5° $\text{B}$ 02'29	1°10'13
direct	14236 May 10 12:40	13° $\text{B}$ 49'22			14237 Apr 20 07:12	30° $\text{R}$ $\text{Y}$	
morning max el	14236 May 17 10:51	17° $\text{B}$ 35'43	19°08'38	morning rise	14237 Apr 21 09:34	29° $\text{Y}$ 16'08	
	14236 May 27 05:04	0° $\text{II}$		direct	14237 Apr 24 11:27	28° $\text{Y}$ 23'02	
desc. node	14236 May 27 16:31	0° $\text{II}$ 41'34			14237 Apr 28 19:17	0° $\text{B}$	
greatest brilliancy	14236 May 30 09:36	4° $\text{II}$ 41'49	-0.7m	morning max el	14237 Apr 30 22:26	1° $\text{B}$ 48'21	18°24'09
morning set	14236 Jun 10 05:44	21° $\text{II}$ 14'08		desc. node	14237 May 14 13:19	20° $\text{B}$ 34'39	
	14236 Jun 15 21:42	0° $\text{B}$			14237 May 20 12:35	0° $\text{II}$	
max. Earth dist.	14236 Jun 23 15:57	12° $\text{B}$ 06'01	1.45452 AU	morning set	14237 May 21 05:19	1° $\text{II}$ 06'11	
superior conj	14236 Jun 26 14:17	16° $\text{B}$ 42'38	-2°13'28	superior conj	14237 Jun 05 22:47	25° $\text{II}$ 49'08	-2°06'27
minimum elong	14236 Jun 26 15:36	16° $\text{B}$ 47'52	2°14'30	minimum elong	14237 Jun 05 16:32	25° $\text{II}$ 24'44	2°07'13
	14236 Jul 04 22:13	0° $\text{Q}$		max. Earth dist.	14237 Jun 06 11:49	26° $\text{II}$ 40'01	1.45889 AU
evening rise	14236 Jul 11 07:19	10° $\text{Q}$ 22'19			14237 Jun 08 15:06	0° $\text{B}$	
asc. node	14236 Jul 21 17:01	27° $\text{Q}$ 13'09		evening rise	14237 Jun 21 20:06	20° $\text{B}$ 39'59	
	14236 Jul 23 12:40	0° $\text{H}$			14237 Jun 27 18:50	0° $\text{Q}$	
evening max el	14236 Jul 30 14:38	9° $\text{H}$ 07'48	18°19'28	greatest brilliancy	14237 Jul 01 07:48	5° $\text{Q}$ 30'12	-0.8m
retrograde	14236 Aug 05 23:41	12° $\text{H}$ 31'31		asc. node	14237 Jul 08 13:48	16° $\text{Q}$ 12'35	
evening set	14236 Aug 08 23:45	11° $\text{H}$ 41'55		evening max el	14237 Jul 14 02:00	22° $\text{Q}$ 52'22	18°52'44
inferior conj	14236 Aug 14 20:56	6° $\text{H}$ 13'22	2°20'11	retrograde	14237 Jul 20 18:49	26° $\text{Q}$ 32'38	
minimum elong	14236 Aug 14 23:19	6° $\text{H}$ 06'24	2°19'03	evening set	14237 Jul 24 03:52	25° $\text{Q}$ 26'51	
min. Earth dist.	14236 Aug 17 04:45	3° $\text{H}$ 31'37	0.64502 AU	inferior conj	14237 Jul 29 16:50	19° $\text{Q}$ 43'26	2°51'14
morning rise	14236 Aug 20 21:28	29° $\text{Q}$ 53'20		minimum elong	14237 Jul 29 18:37	19° $\text{Q}$ 37'49	2°50'10
	14236 Aug 20 18:11	30° $\text{R}$ $\text{Q}$		min. Earth dist.	14237 Jul 31 10:18	17° $\text{Q}$ 32'43	0.66280 AU
desc. node	14236 Aug 23 14:21	28° $\text{Q}$ 09'58		morning rise	14237 Aug 04 08:33	13° $\text{Q}$ 18'40	
direct	14236 Aug 27 10:57	27° $\text{Q}$ 16'51		desc. node	14237 Aug 10 11:51	10° $\text{Q}$ 39'37	
	14236 Sep 03 22:46	0° $\text{H}$		direct	14237 Aug 10 14:43	10° $\text{Q}$ 39'33	
morning max el	14236 Sep 10 02:53	5° $\text{H}$ 14'38	27°26'37	morning max el	14237 Aug 23 14:15	18° $\text{Q}$ 22'04	26°27'56
	14236 Sep 28 23:12	0° $\text{B}$			14237 Sep 02 09:52	0° $\text{H}$	
morning set	14236 Oct 15 09:15	28° $\text{B}$ 53'46			14237 Sep 21 22:57	0° $\text{B}$	
	14236 Oct 15 22:40	0° $\text{H}$		morning set	14237 Sep 28 11:36	11° $\text{B}$ 47'18	
asc. node	14236 Oct 17 19:05	3° $\text{H}$ 42'36		max. Earth dist.	14237 Oct 02 10:03	19° $\text{B}$ 21'44	1.34546 AU
max. Earth dist.	14236 Oct 19 23:07	8° $\text{H}$ 09'44	1.32903 AU	asc. node	14237 Oct 04 15:40	23° $\text{B}$ 48'51	
superior conj	14236 Oct 23 12:51	15° $\text{H}$ 42'38	0°51'54	superior conj	14237 Oct 07 11:12	29° $\text{B}$ 33'47	0°26'06
minimum elong	14236 Oct 23 10:40	15° $\text{H}$ 30'59	0°52'12	minimum elong	14237 Oct 07 09:49	29° $\text{B}$ 26'39	0°26'15
	14236 Oct 30 03:39	0° $\text{X}$			14237 Oct 07 16:16	0° $\text{H}$	
evening rise	14236 Oct 30 13:03	0° $\text{X}$ 50'14		evening rise	14237 Oct 14 22:21	15° $\text{H}$ 13'40	
	14236 Nov 15 16:45	0° $\text{B}$			14237 Oct 22 08:46	0° $\text{X}$	
desc. node	14236 Nov 19 10:45	4° $\text{B}$ 37'34		evening max el	14237 Nov 03 03:46	16° $\text{X}$ 56'14	21°00'44
evening max el	14236 Nov 21 10:33	6° $\text{B}$ 42'05	22°35'59	desc. node	14237 Nov 06 08:01	19° $\text{X}$ 40'00	
retrograde	14236 Dec 04 09:12	13° $\text{B}$ 07'06		retrograde	14237 Nov 14 19:51	22° $\text{X}$ 44'09	
evening set	14236 Dec 08 03:53	12° $\text{B}$ 35'54		evening set	14237 Nov 17 09:05	22° $\text{X}$ 28'42	
min. Earth dist.	14236 Dec 15 18:35	9° $\text{B}$ 09'14	0.54729 AU	inferior conj	14237 Nov 26 06:40	18° $\text{X}$ 35'32	-5°23'13
inferior conj	14236 Dec 16 15:33	8° $\text{B}$ 39'38	-5°58'40	minimum elong	14237 Nov 25 21:58	18° $\text{X}$ 47'53	5°20'33
minimum elong	14236 Dec 16 14:43	8° $\text{B}$ 40'49	5°57'35	min. Earth dist.	14237 Nov 27 00:20	18° $\text{X}$ 10'28	0.54504 AU
morning rise	14236 Dec 25 02:49	4° $\text{B}$ 51'56		morning rise	14237 Dec 04 11:11	14° $\text{X}$ 43'24	
direct	14236 Dec 28 07:16	4° $\text{B}$ 28'48		direct	14237 Dec 08 14:31	14° $\text{X}$ 06'41	
morning max el	14237 Jan 09 00:27	10° $\text{B}$ 05'34	21°14'14	morning max el	14237 Dec 21 15:15	20° $\text{X}$ 24'50	22°57'50
asc. node	14237 Jan 13 18:57	15° $\text{B}$ 30'50			14237 Dec 29 14:57	0° $\text{B}$	
	14237 Jan 22 18:08	0° $\approx$		asc. node	14237 Dec 31 16:09	3° $\text{B}$ 05'20	
morning set	14237 Jan 28 21:17	12° $\approx$ 15'53		morning set	14238 Jan 13 08:41	27° $\text{B}$ 01'41	
					14238 Jan 14 18:02	0° $\approx$	

superior conj	14238 Jan 20 07:14	11° $\approx$ 58'39	1°30'09	direct	14238 Nov 19 04:35	23° $\mathbb{M}$ 28'40	
minimum elong	14238 Jan 20 08:56	12° $\approx$ 07'41	1°30'52		14238 Dec 02 15:13	0° $\mathbb{A}$	
max. Earth dist.	14238 Jan 23 14:35	18° $\approx$ 58'24	1.33497 AU	morning max el	14238 Dec 03 00:46	0° $\mathbb{A}$ 22'24	24°46'50
evening rise	14238 Jan 28 05:54	28° $\approx$ 22'49		asc. node	14238 Dec 18 13:16	21° $\mathbb{A}$ 28'18	
	14238 Jan 29 01:47	0° $\mathbb{H}$			14238 Dec 23 03:45	0° $\mathbb{B}$	
desc. node	14238 Feb 02 07:40	8° $\mathbb{H}$ 00'32		morning set	14238 Dec 28 20:36	11° $\mathbb{B}$ 44'54	
	14238 Feb 15 15:23	0° $\mathbb{Y}$					
evening max el	14238 Mar 03 19:29	20° $\mathbb{Y}$ 08'03	27°15'01	superior conj	14239 Jan 04 15:13	26° $\mathbb{B}$ 35'55	1°36'55
retrograde	14238 Mar 17 08:12	27° $\mathbb{Y}$ 37'02		minimum elong	14239 Jan 04 15:52	26° $\mathbb{B}$ 39'30	1°37'53
evening set	14238 Mar 24 00:24	25° $\mathbb{Y}$ 05'59			14239 Jan 06 04:31	0° $\approx$	
min. Earth dist.	14238 Mar 27 21:30	21° $\mathbb{Y}$ 27'59	0.65033 AU	max. Earth dist.	14239 Jan 06 14:59	0° $\approx$ 56'57	1.32203 AU
asc. node	14238 Mar 29 12:59	19° $\mathbb{Y}$ 39'24		evening rise	14239 Jan 11 23:34	12° $\approx$ 16'31	
inferior conj	14238 Mar 30 06:51	18° $\mathbb{Y}$ 49'39	0°14'12	desc. node	14239 Jan 20 04:19	28° $\approx$ 01'39	
minimum elong	14238 Mar 30 06:27	18° $\mathbb{Y}$ 50'46	0°13'49		14239 Jan 21 06:57	0° $\mathbb{H}$	
transit middle	14238 Mar 30 06:27	18° $\mathbb{Y}$ 50'46	0°13'49		14239 Feb 11 02:52	0° $\mathbb{Y}$	
transit begin	14238 Mar 30 04:55	18° $\mathbb{Y}$ 55'01		evening max el	14239 Feb 14 07:13	3° $\mathbb{Y}$ 15'47	27°34'14
transit end	14238 Mar 30 07:59	18° $\mathbb{Y}$ 46'31		retrograde	14239 Feb 28 03:30	10° $\mathbb{Y}$ 42'48	
morning rise	14238 Apr 05 14:19	13° $\mathbb{Y}$ 21'31		evening set	14239 Mar 07 00:11	8° $\mathbb{Y}$ 20'02	
direct	14238 Apr 08 06:44	12° $\mathbb{Y}$ 43'33		min. Earth dist.	14239 Mar 10 18:32	5° $\mathbb{Y}$ 10'23	0.63095 AU
morning max el	14238 Apr 14 14:37	16° $\mathbb{Y}$ 00'25	17°56'33	inferior conj	14239 Mar 13 14:35	2° $\mathbb{Y}$ 21'40	-0°55'00
	14238 Apr 24 20:01	0° $\mathbb{B}$		minimum elong	14239 Mar 13 16:24	2° $\mathbb{Y}$ 17'10	0°54'11
desc. node	14238 May 01 10:00	10° $\mathbb{B}$ 45'37		asc. node	14239 Mar 16 10:29	29° $\mathbb{H}$ 42'06	
morning set	14238 May 02 08:52	12° $\mathbb{B}$ 19'57			14239 Mar 16 02:13	30° $\mathbb{R}$ $\mathbb{H}$	
	14238 May 13 05:06	0° $\mathbb{I}$		morning rise	14239 Mar 20 11:14	27° $\mathbb{H}$ 09'05	
				direct	14239 Mar 22 19:39	26° $\mathbb{H}$ 42'43	
superior conj	14238 May 16 12:30	5° $\mathbb{I}$ 16'20	-1°40'55		14239 Mar 29 07:21	0° $\mathbb{Y}$	
minimum elong	14238 May 16 03:31	4° $\mathbb{I}$ 40'42	1°40'56	morning max el	14239 Mar 29 08:25	0° $\mathbb{Y}$ 02'35	17°46'17
max. Earth dist.	14238 May 20 07:58	11° $\mathbb{I}$ 16'51	1.45574 AU	morning set	14239 Apr 14 14:06	24° $\mathbb{Y}$ 46'41	
	14238 Jun 01 09:48	0° $\mathbb{E}$			14239 Apr 17 14:40	0° $\mathbb{B}$	
evening rise	14238 Jun 01 13:10	0° $\mathbb{E}$ 12'57		desc. node	14239 Apr 18 06:37	1° $\mathbb{B}$ 08'36	
greatest brilliancy	14238 Jun 15 15:40	21° $\mathbb{E}$ 30'37	-0.6m				
	14238 Jun 21 16:49	0° $\mathbb{Q}$		superior conj	14239 Apr 26 21:23	15° $\mathbb{B}$ 38'49	-1°04'13
asc. node	14238 Jun 25 10:42	4° $\mathbb{Q}$ 38'49		minimum elong	14239 Apr 26 15:03	15° $\mathbb{B}$ 12'45	1°04'01
evening max el	14238 Jun 27 08:28	6° $\mathbb{Q}$ 41'35	19°42'22	max. Earth dist.	14239 May 03 01:52	25° $\mathbb{B}$ 40'08	1.44554 AU
retrograde	14238 Jul 04 17:04	10° $\mathbb{Q}$ 50'38			14239 May 05 19:27	0° $\mathbb{I}$	
evening set	14238 Jul 08 11:41	9° $\mathbb{Q}$ 27'54		evening rise	14239 May 12 00:14	9° $\mathbb{I}$ 38'21	
inferior conj	14238 Jul 13 19:42	3° $\mathbb{Q}$ 31'16	3°07'25		14239 May 25 14:33	0° $\mathbb{E}$	
minimum elong	14238 Jul 13 20:32	3° $\mathbb{Q}$ 28'27	3°06'26	evening max el	14239 Jun 10 09:04	20° $\mathbb{E}$ 31'47	20°46'23
min. Earth dist.	14238 Jul 14 22:54	2° $\mathbb{Q}$ 00'19	0.67640 AU	asc. node	14239 Jun 12 07:43	22° $\mathbb{E}$ 19'59	
	14238 Jul 16 12:23	30° $\mathbb{R}$ $\mathbb{E}$		retrograde	14239 Jun 18 16:05	25° $\mathbb{E}$ 19'11	
morning rise	14238 Jul 19 04:57	27° $\mathbb{E}$ 06'57		evening set	14239 Jun 22 20:58	23° $\mathbb{E}$ 39'30	
direct	14238 Jul 25 00:53	24° $\mathbb{E}$ 33'42		inferior conj	14239 Jun 28 02:54	17° $\mathbb{E}$ 31'06	3°11'05
desc. node	14238 Jul 28 09:16	25° $\mathbb{E}$ 16'01		minimum elong	14239 Jun 28 02:44	17° $\mathbb{E}$ 31'41	3°10'03
	14238 Aug 04 05:33	0° $\mathbb{Q}$		min. Earth dist.	14239 Jun 28 16:21	16° $\mathbb{E}$ 44'34	0.68541 AU
morning max el	14238 Aug 06 01:10	1° $\mathbb{Q}$ 45'43	25°09'33	morning rise	14239 Jul 03 08:13	11° $\mathbb{E}$ 10'49	
	14238 Aug 27 10:47	0° $\mathbb{M}$		direct	14239 Jul 08 16:21	8° $\mathbb{E}$ 50'18	
morning set	14238 Sep 10 22:15	23° $\mathbb{M}$ 58'03		desc. node	14239 Jul 15 06:36	11° $\mathbb{E}$ 33'21	
	14238 Sep 14 05:55	0° $\mathbb{A}$		morning max el	14239 Jul 19 11:38	15° $\mathbb{E}$ 17'35	23°41'21
max. Earth dist.	14238 Sep 14 11:58	0° $\mathbb{A}$ 27'58	1.36625 AU		14239 Jul 31 12:55	0° $\mathbb{Q}$	
					14239 Aug 20 09:18	0° $\mathbb{M}$	
superior conj	14238 Sep 21 00:02	12° $\mathbb{A}$ 56'16	-0°04'43	morning set	14239 Aug 23 12:41	5° $\mathbb{M}$ 14'41	
minimum elong	14238 Sep 21 00:20	12° $\mathbb{A}$ 57'42	0°04'33	max. Earth dist.	14239 Aug 27 09:41	11° $\mathbb{M}$ 55'15	1.38959 AU
behind sun begin	14238 Sep 20 18:07	12° $\mathbb{A}$ 26'59					
behind sun end	14238 Sep 21 06:33	13° $\mathbb{A}$ 28'28		superior conj	14239 Sep 03 23:42	25° $\mathbb{M}$ 41'19	-0°39'09
asc. node	14238 Sep 21 12:15	13° $\mathbb{A}$ 56'43		minimum elong	14239 Sep 04 02:32	25° $\mathbb{M}$ 54'35	0°38'51
evening rise	14238 Sep 29 03:50	29° $\mathbb{A}$ 25'08			14239 Sep 06 06:21	0° $\mathbb{A}$	
	14238 Sep 29 10:43	0° $\mathbb{M}$		asc. node	14239 Sep 08 08:49	4° $\mathbb{A}$ 02'32	
evening max el	14238 Oct 16 10:52	27° $\mathbb{M}$ 54'11	19°44'05	evening rise	14239 Sep 13 02:45	13° $\mathbb{A}$ 17'37	
	14238 Oct 18 19:48	0° $\mathbb{A}$			14239 Sep 22 03:37	0° $\mathbb{M}$	
desc. node	14238 Oct 24 05:24	2° $\mathbb{A}$ 39'55		evening max el	14239 Sep 29 07:43	9° $\mathbb{M}$ 42'04	18°49'24
retrograde	14238 Oct 26 11:46	2° $\mathbb{A}$ 54'46		retrograde	14239 Oct 07 19:27	13° $\mathbb{M}$ 58'15	
evening set	14238 Oct 28 10:08	2° $\mathbb{A}$ 44'28		evening set	14239 Oct 09 16:49	13° $\mathbb{M}$ 46'21	
	14238 Nov 04 01:59	30° $\mathbb{R}$ $\mathbb{M}$		desc. node	14239 Oct 11 02:50	13° $\mathbb{M}$ 22'42	
inferior conj	14238 Nov 06 05:01	28° $\mathbb{M}$ 42'15	-3°56'49	inferior conj	14239 Oct 17 21:38	9° $\mathbb{M}$ 26'02	-2°09'25
minimum elong	14238 Nov 05 19:29	28° $\mathbb{M}$ 57'07	3°52'52	minimum elong	14239 Oct 17 16:15	9° $\mathbb{M}$ 35'44	2°06'41
min. Earth dist.	14238 Nov 08 08:51	27° $\mathbb{M}$ 21'34	0.55220 AU	min. Earth dist.	14239 Oct 20 22:21	7° $\mathbb{M}$ 15'42	0.56746 AU
morning rise	14238 Nov 14 03:08	24° $\mathbb{M}$ 25'20		morning rise	14239 Oct 25 12:30	4° $\mathbb{M}$ 33'13	

direct	14239 Oct 31 08:30	3°♍11'18		morning max el	14240 Oct 26 09:18	21°♌19'42	27°29'23
morning max el	14239 Nov 14 13:19	10°♍32'22	26°22'45		14240 Nov 02 23:06	0°♍	
	14239 Nov 29 10:45	0°♌		asc. node	14240 Nov 21 07:10	29°♍52'13	
asc. node	14239 Dec 05 10:16	10°♌27'22			14240 Nov 21 08:45	0°♌	
morning set	14239 Dec 13 07:18	26°♌20'56		morning set	14240 Nov 26 14:58	10°♌44'19	
	14239 Dec 14 23:43	0°♋		max. Earth dist.	14240 Dec 03 05:17	25°♌12'28	1.31139 AU
superior conj	14239 Dec 20 02:00	11°♋18'13	1°37'34	superior conj	14240 Dec 03 13:35	25°♌58'53	1°32'17
minimum elong	14239 Dec 20 01:35	11°♋15'50	1°38'36	minimum elong	14240 Dec 03 12:12	25°♌51'11	1°33'13
max. Earth dist.	14239 Dec 20 20:59	13°♋03'54	1.31413 AU		14240 Dec 05 08:42	0°♋	
evening rise	14239 Dec 27 00:50	26°♋28'22		evening rise	14240 Dec 10 07:18	10°♋51'26	
	14239 Dec 28 17:31	0°♊			14240 Dec 19 23:10	0°♊	
desc. node	14240 Jan 07 01:05	17°♊40'23		desc. node	14240 Dec 23 21:56	6°♊47'15	
	14240 Jan 14 17:49	0°♊		evening max el	14241 Jan 08 16:10	27°♊24'39	26°33'28
evening max el	14240 Jan 27 15:03	15°♊45'11	27°21'18		14241 Jan 11 15:57	0°♊	
retrograde	14240 Feb 10 14:26	23°♊03'49		retrograde	14241 Jan 22 15:18	4°♊32'24	
evening set	14240 Feb 17 10:17	20°♊57'19		evening set	14241 Jan 29 03:05	2°♊49'16	
min. Earth dist.	14240 Feb 21 05:31	18°♊09'08	0.60950 AU	min. Earth dist.	14241 Feb 02 05:51	0°♊12'05	0.58763 AU
inferior conj	14240 Feb 24 08:44	15°♊24'48	-2°14'54		14241 Feb 02 12:26	30°♊	
minimum elong	14240 Feb 24 13:36	15°♊14'08	2°12'36	inferior conj	14241 Feb 05 09:35	27°♊48'27	-3°40'29
asc. node	14240 Mar 02 07:56	10°♊40'14		minimum elong	14241 Feb 05 17:32	27°♊33'18	3°37'09
morning rise	14240 Mar 02 20:03	10°♊30'33		morning rise	14241 Feb 13 11:06	23°♊15'22	
direct	14240 Mar 04 22:39	10°♊12'04		direct	14241 Feb 15 11:30	23°♊01'07	
morning max el	14240 Mar 12 00:32	13°♊45'24	17°54'09	asc. node	14241 Feb 17 05:23	23°♊12'15	
	14240 Mar 23 02:25	0°♑		morning max el	14241 Feb 23 11:18	26°♊58'06	18°21'38
morning set	14240 Mar 27 15:01	8°♑08'27			14241 Feb 26 03:55	0°♊	
desc. node	14240 Apr 04 03:11	21°♑39'24		morning set	14241 Mar 11 05:52	22°♊07'43	
					14241 Mar 15 09:12	0°♑	
superior conj	14240 Apr 07 06:13	27°♑07'35	-0°24'47	superior conj	14241 Mar 20 13:01	9°♑36'28	0°11'43
minimum elong	14240 Apr 07 04:00	26°♑57'57	0°24'48	minimum elong	14241 Mar 20 13:52	9°♑40'19	0°11'30
	14240 Apr 08 22:18	0°♑		behind sun begin	14241 Mar 20 08:46	9°♑17'01	
max. Earth dist.	14240 Apr 14 16:06	9°♑37'08	1.42935 AU	behind sun end	14241 Mar 20 18:57	10°♑03'34	
evening rise	14240 Apr 20 21:15	19°♑36'24		desc. node	14241 Mar 21 23:42	12°♑13'55	
	14240 Apr 27 14:53	0°♐		max. Earth dist.	14241 Mar 28 02:06	22°♑57'07	1.40878 AU
	14240 May 19 04:46	0°♐			14241 Apr 01 06:55	0°♑	
evening max el	14240 May 23 04:15	4°♐22'35	22°01'09	evening rise	14241 Apr 01 13:26	0°♑26'48	
asc. node	14240 May 29 04:48	9°♐01'50			14241 Apr 21 01:08	0°♐	
retrograde	14240 Jun 01 13:59	9°♐53'20		evening max el	14241 May 05 19:38	18°♐14'54	23°21'40
evening set	14240 Jun 06 05:55	7°♐57'25		retrograde	14241 May 16 09:32	24°♐28'18	
inferior conj	14240 Jun 11 12:15	1°♐39'02	3°03'39	asc. node	14241 May 16 01:58	24°♐27'51	
minimum elong	14240 Jun 11 11:11	1°♐42'47	3°02'29	evening set	14241 May 21 13:00	22°♐17'48	
min. Earth dist.	14240 Jun 11 12:29	1°♐38'11	0.68965 AU	inferior conj	14241 May 26 21:51	15°♐51'42	2°45'51
	14240 Jun 12 16:50	30°♐		minimum elong	14241 May 26 20:04	15°♐57'49	2°44'31
morning rise	14240 Jun 16 16:14	25°♐24'55		min. Earth dist.	14241 May 26 09:12	16°♐35'17	0.68906 AU
direct	14240 Jun 21 11:48	23°♐22'00		morning rise	14241 Jun 01 03:05	9°♐45'14	
morning max el	14240 Jun 30 23:56	28°♐56'55	22°12'34	direct	14241 Jun 05 10:05	8°♐02'29	
desc. node	14240 Jul 01 03:50	29°♐06'46		morning max el	14241 Jun 13 17:26	12°♐47'23	20°50'58
	14240 Jul 02 00:24	0°♏		desc. node	14241 Jun 18 00:57	17°♐36'29	
	14240 Jul 24 05:17	0°♏			14241 Jun 27 06:21	0°♏	
morning set	14240 Aug 03 02:56	15°♏27'19		morning set	14241 Jul 13 17:47	24°♏40'28	
max. Earth dist.	14240 Aug 08 10:17	24°♏10'16	1.41293 AU		14241 Jul 17 03:19	0°♏	
	14240 Aug 11 20:48	0°♎		max. Earth dist.	14241 Jul 21 17:38	7°♏20'47	1.43339 AU
superior conj	14240 Aug 16 05:49	7°♎38'23	-1°14'38	superior conj	14241 Jul 28 14:11	18°♏38'51	-1°46'34
minimum elong	14240 Aug 16 11:33	8°♎03'51	1°14'18	minimum elong	14241 Jul 28 21:36	19°♏10'01	1°46'36
asc. node	14240 Aug 25 05:21	24°♎02'06			14241 Aug 04 05:16	0°♎	
evening rise	14240 Aug 26 15:36	26°♎41'40		evening rise	14241 Aug 09 14:06	9°♎27'05	
	14240 Aug 28 10:15	0°♎		asc. node	14241 Aug 12 01:56	13°♎51'57	
evening max el	14240 Sep 11 14:30	22°♎11'42	18°16'05		14241 Aug 21 20:24	0°♎	
retrograde	14240 Sep 18 22:28	25°♎55'22		evening max el	14241 Aug 26 03:01	5°♎13'39	18°02'42
evening set	14240 Sep 21 01:22	25°♎37'19		retrograde	14241 Sep 01 18:18	8°♎38'55	
desc. node	14240 Sep 27 00:21	22°♎09'10		evening set	14241 Sep 04 04:51	8°♎11'00	
inferior conj	14240 Sep 28 11:57	20°♎55'38	-0°28'05	inferior conj	14241 Sep 10 22:18	3°♎09'14	0°54'00
minimum elong	14240 Sep 28 10:56	20°♎57'46	0°27'24	minimum elong	14241 Sep 10 23:52	3°♎05'25	0°53'23
min. Earth dist.	14240 Oct 01 18:55	18°♎10'24	0.58805 AU	desc. node	14241 Sep 13 21:53	0°♎15'52	
morning rise	14240 Oct 05 17:06	15°♎27'02		min. Earth dist.	14241 Sep 14 00:39	0°♎09'26	0.61085 AU
direct	14240 Oct 12 01:57	13°♎38'12					

	14241 Sep 14 04:44	30° $\mathbb{R}$ $\mathbb{M}$		min. Earth dist.	14242 Aug 27 16:17	13° $\mathbb{M}$ 04'59	0.63319 AU
morning rise	14241 Sep 17 16:03	27° $\mathbb{M}$ 12'33		morning rise	14242 Aug 31 07:10	9° $\mathbb{M}$ 44'14	
direct	14241 Sep 24 07:18	24° $\mathbb{M}$ 59'25		desc. node	14242 Aug 31 19:25	9° $\mathbb{M}$ 21'51	
	14241 Oct 05 07:59	0° $\mathbb{L}$		direct	14242 Sep 06 22:47	7° $\mathbb{M}$ 13'28	
morning max el	14241 Oct 08 12:54	2° $\mathbb{L}$ 55'13	27°57'55	morning max el	14242 Sep 20 21:37	15° $\mathbb{M}$ 14'45	27°47'52
	14241 Oct 28 11:55	0° $\mathbb{M}$			14242 Oct 02 23:20	0° $\mathbb{L}$	
asc. node	14241 Nov 08 03:57	19° $\mathbb{M}$ 35'35			14242 Oct 21 03:56	0° $\mathbb{M}$	
morning set	14241 Nov 10 17:42	24° $\mathbb{M}$ 50'28		morning set	14242 Oct 25 13:15	8° $\mathbb{M}$ 33'51	
	14241 Nov 13 04:22	0° $\mathbb{J}$		asc. node	14242 Oct 26 00:39	9° $\mathbb{M}$ 31'25	
max. Earth dist.	14241 Nov 16 12:01	7° $\mathbb{J}$ 13'07	1.31392 AU	max. Earth dist.	14242 Oct 30 13:12	18° $\mathbb{M}$ 56'08	1.32186 AU
superior conj	14241 Nov 18 00:07	10° $\mathbb{J}$ 32'51	1°21'10	superior conj	14242 Nov 02 07:44	24° $\mathbb{M}$ 54'54	1°04'15
minimum elong	14241 Nov 17 22:04	10° $\mathbb{J}$ 21'27	1°21'53	minimum elong	14242 Nov 02 05:26	24° $\mathbb{M}$ 42'23	1°04'41
evening rise	14241 Nov 24 16:57	25° $\mathbb{J}$ 20'40			14242 Nov 04 15:31	0° $\mathbb{J}$	
	14241 Nov 26 21:23	0° $\mathbb{Z}$		evening rise	14242 Nov 09 03:56	9° $\mathbb{J}$ 51'16	
desc. node	14241 Dec 10 18:53	25° $\mathbb{Z}$ 10'25			14242 Nov 19 08:49	0° $\mathbb{Z}$	
	14241 Dec 14 04:58	0° $\approx$		desc. node	14242 Nov 27 15:59	12° $\mathbb{Z}$ 33'40	
evening max el	14241 Dec 21 08:39	8° $\approx$ 10'59	25°14'09	evening max el	14242 Dec 02 18:52	18° $\mathbb{Z}$ 18'23	23°35'09
retrograde	14242 Jan 04 04:34	15° $\approx$ 07'37		retrograde	14242 Dec 16 05:15	24° $\mathbb{Z}$ 59'02	
evening set	14242 Jan 09 22:36	13° $\approx$ 52'52		evening set	14242 Dec 20 18:48	24° $\mathbb{Z}$ 13'46	
min. Earth dist.	14242 Jan 14 20:46	11° $\approx$ 11'20	0.56768 AU	min. Earth dist.	14242 Dec 27 05:32	21° $\mathbb{Z}$ 08'45	0.55252 AU
inferior conj	14242 Jan 17 14:08	9° $\approx$ 23'45	-4°59'44	inferior conj	14242 Dec 28 22:20	20° $\mathbb{Z}$ 08'47	-5°51'24
minimum elong	14242 Jan 17 22:57	9° $\approx$ 09'12	4°56'46	minimum elong	14242 Dec 29 02:35	20° $\mathbb{Z}$ 02'31	5°49'59
morning rise	14242 Jan 26 01:48	5° $\approx$ 12'48		morning rise	14243 Jan 06 12:04	16° $\mathbb{Z}$ 15'34	
direct	14242 Jan 28 05:53	4° $\approx$ 59'08		direct	14243 Jan 09 04:44	15° $\mathbb{Z}$ 57'48	
asc. node	14242 Feb 04 02:48	7° $\approx$ 26'49		morning max el	14243 Jan 20 00:59	21° $\mathbb{Z}$ 09'59	20°22'41
morning max el	14242 Feb 06 12:42	9° $\approx$ 29'37	19°10'37	asc. node	14243 Jan 22 00:09	23° $\mathbb{Z}$ 13'08	
	14242 Feb 19 22:21	0° $\mathbb{H}$			14243 Jan 27 02:16	0° $\approx$	
morning set	14242 Feb 23 06:13	6° $\mathbb{H}$ 30'58		morning set	14243 Feb 07 12:50	21° $\approx$ 09'03	
					14243 Feb 11 19:44	0° $\mathbb{H}$	
superior conj	14242 Mar 03 13:23	22° $\mathbb{H}$ 52'50	0°42'24	superior conj	14243 Feb 15 02:57	6° $\mathbb{H}$ 44'43	1°06'18
minimum elong	14242 Mar 03 15:45	23° $\mathbb{H}$ 04'16	0°42'16	minimum elong	14243 Feb 15 05:38	6° $\mathbb{H}$ 58'14	1°06'27
	14242 Mar 07 07:38	0° $\mathbb{Y}$		max. Earth dist.	14243 Feb 20 15:48	17° $\mathbb{H}$ 38'12	1.36404 AU
desc. node	14242 Mar 08 20:09	2° $\mathbb{Y}$ 48'24		desc. node	14243 Feb 23 16:39	23° $\mathbb{H}$ 19'39	
max. Earth dist.	14242 Mar 10 08:40	5° $\mathbb{Y}$ 34'06	1.38617 AU	evening rise	14243 Feb 24 11:11	24° $\mathbb{H}$ 44'31	
evening rise	14242 Mar 14 02:44	12° $\mathbb{Y}$ 11'23			14243 Feb 27 09:40	0° $\mathbb{Y}$	
	14242 Mar 25 00:21	0° $\mathbb{B}$			14243 Mar 18 14:30	0° $\mathbb{B}$	
	14242 Apr 16 07:42	0° $\mathbb{I}$		evening max el	14243 Mar 31 22:40	15° $\mathbb{B}$ 59'40	25°54'10
evening max el	14242 Apr 18 09:11	2° $\mathbb{I}$ 07'47	24°41'43	retrograde	14243 Apr 13 13:02	23° $\mathbb{B}$ 13'51	
retrograde	14242 Apr 30 01:32	8° $\mathbb{I}$ 57'17		evening set	14243 Apr 19 15:03	20° $\mathbb{B}$ 44'05	
asc. node	14242 May 02 23:15	8° $\mathbb{I}$ 20'39		asc. node	14243 Apr 19 20:38	20° $\mathbb{B}$ 32'13	
evening set	14242 May 05 16:36	6° $\mathbb{I}$ 35'05		min. Earth dist.	14243 Apr 23 20:10	16° $\mathbb{B}$ 13'28	0.67400 AU
min. Earth dist.	14242 May 10 04:26	1° $\mathbb{I}$ 29'01	0.68375 AU	inferior conj	14243 Apr 25 10:05	14° $\mathbb{B}$ 14'04	1°38'52
inferior conj	14242 May 11 05:46	0° $\mathbb{I}$ 04'41	2°17'43	minimum elong	14243 Apr 25 08:04	14° $\mathbb{B}$ 20'27	1°37'33
minimum elong	14242 May 11 03:38	0° $\mathbb{I}$ 11'48	2°16'18	morning rise	14243 May 01 01:45	8° $\mathbb{B}$ 26'09	
	14242 May 11 07:10	30° $\mathbb{R}$ $\mathbb{B}$		direct	14243 May 04 09:27	7° $\mathbb{B}$ 23'11	
morning rise	14242 May 16 14:53	24° $\mathbb{B}$ 06'51		morning max el	14243 May 11 02:05	10° $\mathbb{B}$ 59'20	18°47'36
direct	14242 May 20 09:46	22° $\mathbb{B}$ 44'42		desc. node	14243 May 22 18:47	26° $\mathbb{B}$ 26'39	
morning max el	14242 May 27 18:06	26° $\mathbb{B}$ 49'01	19°41'40	greatest brilliancy	14243 May 25 01:30	29° $\mathbb{B}$ 54'24	-0.8m
	14242 May 30 16:15	0° $\mathbb{I}$			14243 May 25 02:58	0° $\mathbb{I}$	
desc. node	14242 Jun 04 21:55	6° $\mathbb{I}$ 46'43		morning set	14243 Jun 02 06:36	12° $\mathbb{I}$ 37'01	
greatest brilliancy	14242 Jun 09 12:26	13° $\mathbb{I}$ 20'26	-0.6m		14243 Jun 13 10:30	0° $\mathbb{B}$	
	14242 Jun 20 14:40	0° $\mathbb{B}$		max. Earth dist.	14243 Jun 17 00:42	5° $\mathbb{B}$ 36'17	1.45729 AU
morning set	14242 Jun 22 20:06	3° $\mathbb{B}$ 24'36					
max. Earth dist.	14242 Jul 04 07:02	21° $\mathbb{B}$ 14'23	1.44867 AU				
				superior conj	14243 Jun 18 12:29	7° $\mathbb{B}$ 56'14	-2°13'01
superior conj	14242 Jul 08 22:48	28° $\mathbb{B}$ 39'35	-2°08'21	minimum elong	14243 Jun 18 10:25	7° $\mathbb{B}$ 48'08	2°14'03
minimum elong	14242 Jul 09 03:52	28° $\mathbb{B}$ 59'58	2°09'07		14243 Jul 02 10:55	0° $\mathbb{Q}$	
	14242 Jul 09 18:47	0° $\mathbb{Q}$		evening rise	14243 Jul 03 19:59	2° $\mathbb{Q}$ 12'40	
evening rise	14242 Jul 22 17:02	21° $\mathbb{Q}$ 20'38		asc. node	14243 Jul 16 19:18	22° $\mathbb{Q}$ 41'29	
	14242 Jul 27 20:37	0° $\mathbb{M}$			14243 Jul 22 04:28	0° $\mathbb{M}$	
asc. node	14242 Jul 29 22:34	3° $\mathbb{M}$ 26'58		evening max el	14243 Jul 24 06:49	2° $\mathbb{M}$ 17'42	18°31'33
evening max el	14242 Aug 09 17:30	18° $\mathbb{M}$ 38'13	18°08'08	retrograde	14243 Jul 30 18:15	5° $\mathbb{M}$ 46'59	
retrograde	14242 Aug 16 02:17	21° $\mathbb{M}$ 58'53		evening set	14243 Aug 02 22:00	4° $\mathbb{M}$ 50'49	
evening set	14242 Aug 18 21:12	21° $\mathbb{M}$ 18'01			14243 Aug 08 00:38	30° $\mathbb{R}$ $\mathbb{Q}$	
inferior conj	14242 Aug 25 00:44	15° $\mathbb{M}$ 58'41	1°54'26	inferior conj	14243 Aug 08 15:18	29° $\mathbb{Q}$ 15'58	2°35'17
minimum elong	14242 Aug 25 03:10	15° $\mathbb{M}$ 52'00	1°53'21	minimum elong	14243 Aug 08 17:30	29° $\mathbb{Q}$ 09'19	2°34'11


































































































































min. Earth dist.	14243 Aug 10 17:11	26° $\Omega$ 45'39	0.65308 AU	evening set	14244 Jul 17 04:00	18° $\Omega$ 43'02	
morning rise	14243 Aug 14 11:48	22° $\Omega$ 52'58		inferior conj	14244 Jul 22 14:30	12° $\Omega$ 54'06	2°59'42
desc. node	14243 Aug 18 16:56	20° $\Omega$ 32'15		minimum elong	14244 Jul 22 15:54	12° $\Omega$ 49'32	2°58'41
direct	14243 Aug 20 22:41	20° $\Omega$ 13'53		min. Earth dist.	14244 Jul 24 01:55	10° $\Omega$ 59'22	0.66918 AU
morning max el	14243 Sep 03 08:32	28° $\Omega$ 07'39	27°04'30	morning rise	14244 Jul 28 03:11	6° $\Omega$ 29'10	
	14243 Sep 05 03:28	0° $\mathbb{M}$		direct	14244 Aug 03 05:26	3° $\Omega$ 51'24	
	14243 Sep 26 17:41	0° $\underline{\Omega}$		desc. node	14244 Aug 04 14:24	3° $\Omega$ 58'29	
morning set	14243 Oct 08 22:49	21° $\underline{\Omega}$ 47'46		morning max el	14244 Aug 15 19:35	11° $\Omega$ 22'25	25°56'19
asc. node	14243 Oct 12 21:17	29° $\underline{\Omega}$ 35'00			14244 Aug 30 16:50	0° $\mathbb{M}$	
max. Earth dist.	14243 Oct 13 05:33	0° $\mathbb{M}$ 16'56	1.35355 AU		14244 Sep 18 08:44	0° $\underline{\Omega}$	
	14243 Oct 13 02:13	0° $\mathbb{M}$		morning set	14244 Sep 20 19:01	4° $\underline{\Omega}$ 24'22	
				max. Earth dist.	14244 Sep 24 12:09	11° $\Omega$ 23'12	1.35386 AU
				asc. node	14244 Sep 28 17:53	19° $\underline{\Omega}$ 42'35	
superior conj	14243 Oct 17 10:13	8° $\mathbb{M}$ 59'14	0°41'37				
minimum elong	14243 Oct 17 08:17	8° $\mathbb{M}$ 49'00	0°41'50				
evening rise	14243 Oct 24 14:26	24° $\mathbb{M}$ 18'33		superior conj	14244 Sep 30 04:59	22° $\underline{\Omega}$ 39'40	0°13'36
	14243 Oct 27 07:46	0° $\mathbb{M}$		minimum elong	14244 Sep 30 04:12	22° $\underline{\Omega}$ 35'40	0°13'45
evening max el	14243 Nov 14 06:54	28° $\mathbb{M}$ 19'32	21°53'48	behind sun begin	14244 Sep 30 00:59	22° $\underline{\Omega}$ 19'24	
desc. node	14243 Nov 14 13:13	28° $\mathbb{M}$ 34'50		behind sun end	14244 Sep 30 07:24	22° $\underline{\Omega}$ 51'58	
	14243 Nov 16 02:58	0° $\mathbb{M}$			14244 Oct 03 18:42	0° $\mathbb{M}$	
retrograde	14243 Nov 26 18:29	4° $\mathbb{M}$ 30'28		evening rise	14244 Oct 07 22:26	8° $\mathbb{M}$ 37'52	
evening set	14243 Nov 29 23:07	4° $\mathbb{M}$ 07'41			14244 Oct 19 08:30	0° $\mathbb{M}$	
inferior conj	14243 Dec 08 16:08	0° $\mathbb{M}$ 14'39	-5°51'10	evening max el	14244 Oct 26 05:49	8° $\mathbb{M}$ 50'49	20°25'32
minimum elong	14243 Dec 08 11:23	0° $\mathbb{M}$ 21'18	5°49'41	desc. node	14244 Oct 31 10:32	12° $\mathbb{M}$ 48'26	
min. Earth dist.	14243 Dec 08 11:37	0° $\mathbb{M}$ 20'58	0.54509 AU	retrograde	14244 Nov 06 05:16	14° $\mathbb{M}$ 18'23	
	14243 Dec 09 02:36	30° $\mathbb{M}$ 18'33		evening set	14244 Nov 08 10:22	14° $\mathbb{M}$ 06'06	
morning rise	14243 Dec 17 00:32	26° $\mathbb{M}$ 27'11		inferior conj	14244 Nov 17 08:34	10° $\mathbb{M}$ 10'44	-4°51'14
direct	14243 Dec 20 14:30	25° $\mathbb{M}$ 58'56		minimum elong	14244 Nov 16 22:34	10° $\mathbb{M}$ 25'20	4°47'43
	14243 Dec 30 17:47	0° $\mathbb{M}$		min. Earth dist.	14244 Nov 18 18:06	9° $\mathbb{M}$ 21'46	0.54702 AU
morning max el	14244 Jan 01 22:35	1° $\mathbb{M}$ 54'44	21°56'39	morning rise	14244 Nov 25 10:18	6° $\mathbb{M}$ 10'28	
asc. node	14244 Jan 08 21:25	10° $\mathbb{M}$ 12'47		direct	14244 Nov 29 23:43	5° $\mathbb{M}$ 25'43	
	14244 Jan 20 02:55	0° $\mathbb{M}$		morning max el	14244 Dec 13 09:47	11° $\mathbb{M}$ 59'34	23°44'33
morning set	14244 Jan 22 23:06	5° $\mathbb{M}$ 53'17		asc. node	14244 Dec 25 18:36	28° $\mathbb{M}$ 09'23	
					14244 Dec 26 20:57	0° $\mathbb{M}$	
superior conj	14244 Jan 30 01:55	21° $\mathbb{M}$ 00'13	1°23'21	morning set	14245 Jan 06 10:57	20° $\mathbb{M}$ 38'09	
minimum elong	14244 Jan 30 04:06	21° $\mathbb{M}$ 11'42	1°23'52		14245 Jan 10 18:32	0° $\mathbb{M}$	
max. Earth dist.	14244 Feb 03 04:24	29° $\mathbb{M}$ 28'55	1.34448 AU				
	14244 Feb 03 10:33	0° $\mathbb{M}$		superior conj	14245 Jan 13 07:18	5° $\mathbb{M}$ 31'07	1°33'47
evening rise	14244 Feb 07 11:11	7° $\mathbb{M}$ 55'29		minimum elong	14245 Jan 13 08:34	5° $\mathbb{M}$ 37'59	1°34'37
desc. node	14244 Feb 10 13:13	13° $\mathbb{M}$ 42'52		max. Earth dist.	14245 Jan 16 00:48	11° $\mathbb{M}$ 23'01	1.32892 AU
	14244 Feb 20 00:36	0° $\mathbb{M}$		evening rise	14245 Jan 20 23:17	21° $\mathbb{M}$ 35'27	
evening max el	14244 Mar 13 12:30	29° $\mathbb{M}$ 43'20	26°51'42		14245 Jan 25 07:17	0° $\mathbb{M}$	
	14244 Mar 13 19:26	0° $\mathbb{M}$		desc. node	14245 Jan 27 09:50	3° $\mathbb{M}$ 53'27	
retrograde	14244 Mar 26 18:52	7° $\mathbb{M}$ 09'40			14245 Feb 12 20:58	0° $\mathbb{M}$	
evening set	14244 Apr 02 06:29	4° $\mathbb{M}$ 37'35		evening max el	14245 Feb 24 01:40	13° $\mathbb{M}$ 07'53	27°26'50
asc. node	14244 Apr 05 18:05	1° $\mathbb{M}$ 15'03		retrograde	14245 Mar 09 18:02	20° $\mathbb{M}$ 36'04	
min. Earth dist.	14244 Apr 06 06:13	0° $\mathbb{M}$ 40'52	0.66007 AU	evening set	14245 Mar 16 12:40	18° $\mathbb{M}$ 07'56	
	14244 Apr 06 20:25	30° $\mathbb{M}$ 18'33		min. Earth dist.	14245 Mar 20 08:27	14° $\mathbb{M}$ 42'29	0.64246 AU
inferior conj	14244 Apr 08 08:33	28° $\mathbb{M}$ 14'12	0°48'36	inferior conj	14245 Mar 22 22:31	11° $\mathbb{M}$ 58'27	-0°13'42
minimum elong	14244 Apr 08 07:19	28° $\mathbb{M}$ 17'48	0°47'44	minimum elong	14245 Mar 22 22:56	11° $\mathbb{M}$ 57'21	0°13'37
morning rise	14244 Apr 14 09:27	22° $\mathbb{M}$ 37'55		transit middle	14245 Mar 22 22:56	11° $\mathbb{M}$ 57'21	0°13'37
direct	14244 Apr 17 07:06	21° $\mathbb{M}$ 51'39		transit begin	14245 Mar 22 21:18	12° $\mathbb{M}$ 01'40	
morning max el	14244 Apr 23 15:52	25° $\mathbb{M}$ 12'10	18°10'12	transit end	14245 Mar 23 00:33	11° $\mathbb{M}$ 53'03	
	14244 Apr 27 18:40	0° $\mathbb{M}$		asc. node	14245 Mar 23 15:34	11° $\mathbb{M}$ 13'31	
desc. node	14244 May 08 15:32	16° $\mathbb{M}$ 27'52		morning rise	14245 Mar 29 11:17	6° $\mathbb{M}$ 36'20	
morning set	14244 May 12 17:51	23° $\mathbb{M}$ 03'07		direct	14245 Apr 01 00:12	6° $\mathbb{M}$ 03'36	
	14244 May 17 01:44	0° $\mathbb{M}$		morning max el	14245 Apr 07 09:01	9° $\mathbb{M}$ 20'16	17°50'00
					14245 Apr 21 12:01	0° $\mathbb{M}$	
superior conj	14244 May 27 21:04	17° $\mathbb{M}$ 05'53	-1°57'33	morning set	14245 Apr 24 08:59	4° $\mathbb{M}$ 49'57	
minimum elong	14244 May 27 12:49	16° $\mathbb{M}$ 33'36	1°57'58	desc. node	14245 Apr 25 12:11	6° $\mathbb{M}$ 44'17	
max. Earth dist.	14244 May 29 20:44	20° $\mathbb{M}$ 12'18	1.45851 AU				
	14244 Jun 05 03:42	0° $\mathbb{M}$		superior conj	14245 May 07 17:39	26° $\mathbb{M}$ 52'54	-1°26'09
evening rise	14244 Jun 12 23:08	12° $\mathbb{M}$ 07'19		minimum elong	14245 May 07 09:22	26° $\mathbb{M}$ 19'32	1°26'01
greatest brilliancy	14244 Jun 24 14:59	0° $\Omega$ 03'12	-0.7m		14245 May 09 16:23	0° $\mathbb{M}$	
	14244 Jun 24 14:08	0° $\Omega$		max. Earth dist.	14245 May 12 16:39	4° $\mathbb{M}$ 46'38	1.45229 AU
asc. node	14244 Jul 02 16:08	11° $\Omega$ 28'02		evening rise	14245 May 23 11:38	21° $\mathbb{M}$ 31'50	
evening max el	14244 Jul 06 16:23	16° $\Omega$ 05'13	19°12'02		14245 May 29 01:20	0° $\mathbb{M}$	
retrograde	14244 Jul 13 14:55	19° $\Omega$ 55'58		greatest brilliancy	14245 Jun 07 05:13	13° $\mathbb{M}$ 36'04	-0.6m

asc. node	14245 Jun 19 13:04	29°☿36'27		evening rise	14246 May 03 01:20	1°♄07'34	
	14245 Jun 19 22:24	0°♄			14246 May 22 15:09	0°☿	
evening max el	14245 Jun 19 20:26	29°☿55'05	20°08'03	evening max el	14246 Jun 02 18:33	13°☿45'31	21°17'02
retrograde	14245 Jun 27 13:39	4°♄19'03		asc. node	14246 Jun 06 10:07	16°☿54'40	
evening set	14245 Jul 01 12:40	2°♄48'51		retrograde	14246 Jun 11 12:29	18°☿51'12	
	14245 Jul 04 08:15	30°♄		evening set	14246 Jun 15 22:02	17°☿04'15	
inferior conj	14245 Jul 06 19:28	26°☿47'03	3°10'24	inferior conj	14246 Jun 21 03:50	10°☿51'07	3°09'15
minimum elong	14245 Jul 06 19:53	26°☿45'39	3°09'24	minimum elong	14246 Jun 21 03:16	10°☿53'06	3°08'10
min. Earth dist.	14245 Jul 07 16:41	25°☿34'54	0.68086 AU	min. Earth dist.	14246 Jun 21 11:31	10°☿24'22	0.68781 AU
morning rise	14245 Jul 12 02:46	20°☿24'23		morning rise	14246 Jun 26 08:17	4°☿33'18	
direct	14245 Jul 17 17:51	17°☿56'00		direct	14246 Jul 01 11:01	2°☿20'08	
desc. node	14245 Jul 22 11:48	19°☿20'51		desc. node	14246 Jul 09 09:03	6°☿13'35	
morning max el	14245 Jul 29 06:05	24°☿49'35	24°32'40	morning max el	14246 Jul 11 17:13	8°☿25'32	23°03'10
	14245 Aug 02 22:11	0°♄			14246 Jul 28 14:46	0°♄	
	14245 Aug 24 03:44	0°♄		morning set	14246 Aug 15 02:03	27°♄03'04	
morning set	14245 Sep 02 21:33	16°♄12'44			14246 Aug 16 20:29	0°♄	
max. Earth dist.	14245 Sep 06 11:51	22°♄36'12	1.37608 AU	max. Earth dist.	14246 Aug 19 10:25	4°♄22'57	1.39975 AU
	14245 Sep 10 11:59	0°♄					
superior conj	14245 Sep 13 12:40	5°♄47'00	-0°19'00	superior conj	14246 Aug 27 05:21	18°♄12'27	-0°54'19
minimum elong	14245 Sep 13 13:56	5°♄53'09	0°18'46	minimum elong	14246 Aug 27 09:26	18°♄31'09	0°53'57
asc. node	14245 Sep 15 14:25	9°♄49'43		asc. node	14246 Sep 02 10:58	29°♄53'11	
evening rise	14245 Sep 22 01:28	22°♄42'01			14246 Sep 02 12:24	0°♄	
	14245 Sep 25 18:23	0°♄		evening rise	14246 Sep 05 20:35	6°♄23'37	
					14246 Sep 19 19:43	0°♄	
evening max el	14245 Oct 08 18:57	20°♄09'24	19°18'02	evening max el	14246 Sep 21 20:26	2°♄15'28	18°32'35
retrograde	14245 Oct 18 03:04	24°♄50'15		retrograde	14246 Sep 29 19:15	6°♄16'33	
desc. node	14245 Oct 18 07:58	24°♄50'07		evening set	14246 Oct 01 18:20	6°♄02'39	
evening set	14245 Oct 19 23:54	24°♄39'49		desc. node	14246 Oct 05 05:25	4°♄37'23	
inferior conj	14245 Oct 28 13:42	20°♄30'10	-3°11'52	inferior conj	14246 Oct 09 15:31	1°♄33'10	-1°24'31
minimum elong	14245 Oct 28 05:38	20°♄43'29	3°08'11	minimum elong	14246 Oct 09 12:09	1°♄39'40	1°22'42
min. Earth dist.	14245 Oct 31 04:04	18°♄47'25	0.55789 AU		14246 Oct 11 15:35	30°♄	
morning rise	14245 Nov 05 09:01	15°♄58'52		min. Earth dist.	14246 Oct 12 20:26	29°♄05'37	0.57575 AU
direct	14245 Nov 10 18:51	14°♄52'15		morning rise	14246 Oct 17 02:29	26°♄24'06	
morning max el	14245 Nov 24 19:41	21°♄57'40	25°30'27	direct	14246 Oct 23 04:29	24°♄50'50	
	14245 Dec 01 21:20	0°♄			14246 Nov 03 20:11	0°♄	
asc. node	14245 Dec 12 15:39	16°♄48'33		morning max el	14246 Nov 06 11:25	2°♄21'55	26°55'28
	14245 Dec 19 10:19	0°♄			14246 Nov 26 06:50	0°♄	
morning set	14245 Dec 21 22:32	5°♄18'29		asc. node	14246 Nov 29 12:35	5°♄59'15	
				morning set	14246 Dec 06 08:08	19°♄49'30	
superior conj	14245 Dec 28 16:42	20°♄10'33	1°37'55		14246 Dec 10 23:37	0°♄	
minimum elong	14245 Dec 28 16:53	20°♄11'36	1°38'57				
max. Earth dist.	14245 Dec 30 04:05	23°♄25'52	1.31805 AU	superior conj	14246 Dec 13 04:01	4°♄52'29	1°36'02
	14246 Jan 02 04:36	0°♄		minimum elong	14246 Dec 13 03:09	4°♄47'43	1°37'04
evening rise	14246 Jan 04 20:27	5°♄36'55		max. Earth dist.	14246 Dec 13 11:25	5°♄33'53	1.31226 AU
desc. node	14246 Jan 14 06:34	23°♄45'45		evening rise	14246 Dec 20 00:09	19°♄53'34	
	14246 Jan 17 21:53	0°♄			14246 Dec 24 22:34	0°♄	
evening max el	14246 Feb 06 12:03	26°♄00'22	27°32'55	desc. node	14247 Jan 01 03:21	13°♄11'57	
	14246 Feb 11 07:32	0°♄			14247 Jan 12 10:05	0°♄	
retrograde	14246 Feb 20 09:41	3°♄23'54		evening max el	14247 Jan 19 17:02	8°♄08'15	27°05'10
evening set	14246 Feb 27 07:01	1°♄06'55		retrograde	14247 Feb 02 16:43	15°♄23'16	
	14246 Feb 28 20:12	30°♄		evening set	14247 Feb 09 10:15	13°♄25'32	
min. Earth dist.	14246 Mar 03 01:06	28°♄07'46	0.62199 AU	min. Earth dist.	14247 Feb 13 07:23	10°♄43'50	0.60003 AU
inferior conj	14246 Mar 06 00:53	25°♄19'01	-1°27'45	inferior conj	14247 Feb 16 12:04	8°♄05'56	-2°51'05
minimum elong	14246 Mar 06 03:54	25°♄11'53	1°26'19	minimum elong	14247 Feb 16 18:20	7°♄52'59	2°48'14
asc. node	14246 Mar 10 13:03	21°♄32'47		morning rise	14247 Feb 24 05:42	3°♄20'51	
morning rise	14246 Mar 13 03:40	20°♄14'01		asc. node	14247 Feb 25 10:31	3°♄07'29	
direct	14246 Mar 15 09:25	19°♄51'21		direct	14247 Feb 26 06:45	3°♄04'41	
morning max el	14246 Mar 22 02:32	23°♄15'19	17°47'26	morning max el	14247 Mar 05 16:55	6°♄46'46	18°03'27
	14246 Mar 27 11:13	0°♄			14247 Mar 20 13:12	0°♄	
morning set	14246 Apr 06 23:23	17°♄42'33		morning set	14247 Mar 21 06:48	1°♄21'33	
desc. node	14246 Apr 12 08:46	27°♄11'08		desc. node	14247 Mar 30 05:17	17°♄43'40	
	14246 Apr 13 23:44	0°♄					
superior conj	14246 Apr 18 12:44	7°♄44'02	-0°47'25	superior conj	14247 Mar 31 07:23	19°♄39'43	-0°08'45
minimum elong	14246 Apr 18 08:10	7°♄24'53	0°47'18	minimum elong	14247 Mar 31 06:39	19°♄36'27	0°08'52
max. Earth dist.	14246 Apr 25 09:40	19°♄02'24	1.43927 AU	behind sun begin	14247 Mar 31 00:05	19°♄07'20	
	14246 May 02 07:55	0°♄		behind sun end	14247 Mar 31 13:13	20°♄05'31	
					14247 Apr 06 06:50	0°♄	

max. Earth dist.	14247 Apr 07 21:42	2°♄43'01	1.42090 AU	minimum elong	14248 Mar 12 23:53	2°♄37'53	0°25'18
evening rise	14247 Apr 13 05:46	11°♄25'59		desc. node	14248 Mar 16 01:47	8°♄18'30	
	14247 Apr 25 07:58	0°♄		max. Earth dist.	14248 Mar 20 05:26	15°♄42'17	1.39925 AU
evening max el	14247 May 16 11:42	27°♄36'06	22°35'00	evening rise	14248 Mar 24 07:03	22°♄39'56	
	14247 May 19 02:10	0°♄			14248 Mar 28 18:12	0°♄	
asc. node	14247 May 24 07:15	3°♄06'18			14248 Apr 18 06:27	0°♄	
retrograde	14247 May 26 09:42	3°♄26'12		evening max el	14248 Apr 28 02:07	11°♄28'40	23°56'16
evening set	14247 May 31 06:24	1°♄23'50		retrograde	14248 May 09 03:53	17°♄58'42	
	14247 Jun 01 16:54	30°♄		asc. node	14248 May 10 04:29	17°♄54'03	
inferior conj	14247 Jun 05 13:32	25°♄01'34	2°57'23	evening set	14248 May 14 12:11	15°♄43'06	
minimum elong	14247 Jun 05 12:08	25°♄06'28	2°56'08	min. Earth dist.	14248 May 19 04:41	10°♄15'53	0.68734 AU
min. Earth dist.	14247 Jun 05 08:15	25°♄19'59	0.68994 AU	inferior conj	14248 May 19 22:40	9°♄14'40	2°35'13
morning rise	14247 Jun 10 17:43	18°♄50'21		minimum elong	14248 May 19 20:41	9°♄21'24	2°33'49
direct	14247 Jun 15 07:48	16°♄55'56		morning rise	14248 May 25 05:12	3°♄11'27	
morning max el	14247 Jun 24 07:26	22°♄09'27	21°36'35	direct	14248 May 29 06:58	1°♄37'22	
desc. node	14247 Jun 26 06:13	24°♄12'51		morning max el	14248 Jun 06 03:40	6°♄03'47	20°19'41
	14247 Jul 01 01:39	0°♄		desc. node	14248 Jun 12 03:16	13°♄00'56	
	14247 Jul 21 21:17	0°♄			14248 Jun 24 03:59	0°♄	
morning set	14247 Jul 26 05:52	6°♄49'09		morning set	14248 Jul 04 13:13	15°♄43'27	
max. Earth dist.	14247 Aug 01 13:09	16°♄59'48	1.42212 AU		14248 Jul 13 15:39	0°♄	
				max. Earth dist.	14248 Jul 13 22:52	0°♄28'51	1.44063 AU
superior conj	14247 Aug 09 02:41	29°♄46'20	-1°28'58	superior conj	14248 Jul 20 00:58	10°♄21'14	-1°57'29
minimum elong	14247 Aug 09 09:26	0°♄15'34	1°28'44	minimum elong	14248 Jul 20 08:02	10°♄50'20	1°57'50
	14247 Aug 09 05:50	0°♄			14248 Jul 31 15:38	0°♄	
evening rise	14247 Aug 20 03:56	19°♄32'48		evening rise	14248 Aug 01 18:44	1°♄57'18	
asc. node	14247 Aug 20 07:32	19°♄49'14		asc. node	14248 Aug 06 04:09	9°♄33'20	
	14247 Aug 25 23:05	0°♄		evening max el	14248 Aug 18 20:04	28°♄13'42	18°02'50
evening max el	14247 Sep 05 06:11	15°♄00'28	18°08'02		14248 Aug 20 22:03	0°♄	
retrograde	14247 Sep 12 05:50	18°♄34'32		retrograde	14248 Aug 25 07:15	1°♄34'57	
evening set	14247 Sep 14 11:46	18°♄12'49		evening set	14248 Aug 27 21:24	1°♄01'46	
inferior conj	14247 Sep 21 14:49	13°♄22'40	0°09'24		14248 Aug 29 17:57	30°♄	
minimum elong	14247 Sep 21 15:08	13°♄21'57	0°09'24	inferior conj	14248 Sep 03 08:30	25°♄52'26	1°22'11
transit middle	14247 Sep 21 15:08	13°♄21'57	0°09'24	minimum elong	14248 Sep 03 10:37	25°♄47'01	1°21'17
transit begin	14247 Sep 21 12:23	13°♄28'06		min. Earth dist.	14248 Sep 06 06:53	22°♄52'51	0.62060 AU
transit end	14247 Sep 21 17:52	13°♄15'47		desc. node	14248 Sep 08 00:27	21°♄16'11	
desc. node	14247 Sep 22 02:54	12°♄55'23		morning rise	14248 Sep 09 21:22	19°♄47'16	
min. Earth dist.	14247 Sep 24 21:01	10°♄28'16	0.59766 AU	direct	14248 Sep 16 13:42	17°♄25'27	
morning rise	14247 Sep 28 15:11	7°♄40'47		morning max el	14248 Sep 30 16:43	25°♄24'25	27°58'03
direct	14247 Oct 05 03:38	5°♄40'37			14248 Oct 04 22:19	0°♄	
morning max el	14247 Oct 19 10:50	13°♄29'55	27°46'17		14248 Oct 25 03:32	0°♄	
	14247 Nov 01 15:26	0°♄		asc. node	14248 Nov 02 06:10	15°♄22'13	
asc. node	14247 Nov 16 09:25	25°♄32'56		morning set	14248 Nov 03 13:56	18°♄03'42	
	14247 Nov 18 14:30	0°♄		max. Earth dist.	14248 Nov 09 00:08	29°♄33'42	1.31666 AU
morning set	14247 Nov 20 13:58	4°♄06'36			14248 Nov 09 04:58	0°♄	
max. Earth dist.	14247 Nov 26 19:21	17°♄39'44	1.31175 AU	superior conj	14248 Nov 11 00:59	4°♄01'24	1°14'43
superior conj	14247 Nov 27 15:25	19°♄31'34	1°28'17	minimum elong	14248 Nov 10 22:45	3°♄49'10	1°15'18
minimum elong	14247 Nov 27 13:42	19°♄22'03	1°29'09	evening rise	14248 Nov 17 18:41	18°♄50'53	
	14247 Dec 02 08:25	0°♄			14248 Nov 23 03:26	0°♄	
evening rise	14247 Dec 04 08:13	4°♄20'13		desc. node	14248 Dec 04 21:18	20°♄02'06	
	14247 Dec 17 17:58	0°♄		evening max el	14248 Dec 13 04:00	29°♄52'42	24°33'30
desc. node	14247 Dec 19 00:16	2°♄02'12			14248 Dec 13 07:04	0°♄	
evening max el	14248 Jan 01 14:33	19°♄25'03	26°03'09	retrograde	14248 Dec 26 20:58	6°♄42'44	
retrograde	14248 Jan 15 13:16	26°♄28'49		evening set	14249 Jan 01 03:57	5°♄41'07	
evening set	14248 Jan 21 18:31	24°♄57'29		min. Earth dist.	14249 Jan 06 15:46	2°♄51'53	0.56051 AU
min. Earth dist.	14248 Jan 26 03:46	22°♄20'18	0.57867 AU	inferior conj	14249 Jan 09 00:12	1°♄23'52	-5°26'32
inferior conj	14248 Jan 29 04:35	20°♄10'11	-4°15'59	minimum elong	14249 Jan 09 07:53	1°♄11'52	5°24'13
minimum elong	14248 Jan 29 13:22	19°♄54'27	4°12'35		14249 Jan 11 07:13	30°♄	
morning rise	14248 Feb 06 11:11	15°♄46'33		morning rise	14249 Jan 17 13:50	27°♄20'57	
direct	14248 Feb 08 12:01	15°♄33'09		direct	14249 Jan 19 22:11	27°♄06'05	
asc. node	14248 Feb 12 07:55	16°♄23'27			14249 Jan 27 15:36	0°♄	
morning max el	14248 Feb 17 00:16	19°♄43'43	18°39'43	asc. node	14249 Jan 29 05:18	1°♄18'28	
	14248 Feb 24 15:26	0°♄		morning max el	14249 Jan 29 20:23	1°♄53'52	19°38'23
morning set	14248 Mar 04 02:10	15°♄32'12		morning set	14249 Feb 16 05:34	0°♄	
	14248 Mar 11 14:18	0°♄			14249 Feb 16 05:02	0°♄	
superior conj	14248 Mar 12 22:13	2°♄30'03	0°25'31				



superior conj	14249 Feb 24 04:41	16° $\text{X}$ 02'26	0°53'24	superior conj	14250 Feb 07 22:38	0° $\text{X}$ 05'20	1°14'23
minimum elong	14249 Feb 24 07:18	16° $\text{X}$ 15'21	0°53'21	minimum elong	14250 Feb 08 01:11	0° $\text{X}$ 18'24	1°14'40
max. Earth dist.	14249 Mar 02 11:54	28° $\text{X}$ 04'03	1.37661 AU		14250 Feb 07 21:36	0° $\text{X}$	
desc. node	14249 Mar 02 22:18	28° $\text{X}$ 51'55		max. Earth dist.	14250 Feb 12 21:11	10° $\text{X}$ 01'11	1.35533 AU
	14249 Mar 03 13:11	0° $\text{Y}$		evening rise	14250 Feb 16 20:23	17° $\text{X}$ 36'06	
evening rise	14249 Mar 06 04:55	4° $\text{Y}$ 46'10		desc. node	14250 Feb 17 18:50	19° $\text{X}$ 20'06	
	14249 Mar 21 18:19	0° $\text{Z}$			14250 Feb 23 19:23	0° $\text{Y}$	
evening max el	14249 Apr 10 15:44	25° $\text{Z}$ 22'20	25°14'01		14250 Mar 16 01:13	0° $\text{Z}$	
	14249 Apr 16 04:20	0° $\text{II}$		evening max el	14250 Mar 24 05:22	9° $\text{Z}$ 11'26	26°20'56
retrograde	14249 Apr 22 17:57	2° $\text{II}$ 23'05		retrograde	14250 Apr 06 02:59	16° $\text{Z}$ 31'50	
asc. node	14249 Apr 27 01:48	1° $\text{II}$ 03'51		evening set	14250 Apr 12 09:30	14° $\text{Z}$ 00'11	
evening set	14249 Apr 28 13:48	29° $\text{Z}$ 57'17		asc. node	14250 Apr 13 23:13	12° $\text{Z}$ 34'08	
	14249 Apr 28 12:31	30° $\text{R}$ $\text{Z}$		min. Earth dist.	14250 Apr 16 12:07	9° $\text{Z}$ 44'33	0.66856 AU
min. Earth dist.	14249 May 02 22:42	25° $\text{Z}$ 06'26	0.68013 AU	inferior conj	14250 Apr 18 07:26	7° $\text{Z}$ 32'26	1°18'58
inferior conj	14249 May 04 05:20	23° $\text{Z}$ 26'40	2°02'36	minimum elong	14250 Apr 18 05:39	7° $\text{Z}$ 37'52	1°17'48
minimum elong	14249 May 04 03:10	23° $\text{Z}$ 33'43	2°01'11	morning rise	14250 Apr 24 02:43	1° $\text{Z}$ 49'28	
morning rise	14249 May 09 16:53	17° $\text{Z}$ 32'49		direct	14250 Apr 27 06:03	0° $\text{Z}$ 53'56	
direct	14249 May 13 07:00	16° $\text{Z}$ 18'51		morning max el	14250 May 03 18:15	4° $\text{Z}$ 21'34	18°29'43
morning max el	14249 May 20 07:30	20° $\text{Z}$ 09'18	19°16'44	desc. node	14250 May 16 21:01	22° $\text{Z}$ 14'28	
	14249 May 28 07:23	0° $\text{II}$			14250 May 21 19:57	0° $\text{II}$	
desc. node	14249 May 30 00:12	2° $\text{II}$ 24'51		morning set	14250 May 24 12:13	4° $\text{II}$ 13'08	
greatest brilliancy	14249 Jun 02 01:51	6° $\text{II}$ 54'10	-0.7m				
morning set	14249 Jun 13 16:27	24° $\text{II}$ 32'40		superior conj	14250 Jun 09 09:45	29° $\text{II}$ 07'39	-2°08'50
	14249 Jun 17 05:18	0° $\text{S}$		minimum elong	14250 Jun 09 04:28	28° $\text{II}$ 47'04	2°09'40
max. Earth dist.	14249 Jun 26 14:54	14° $\text{S}$ 38'36	1.45321 AU	max. Earth dist.	14250 Jun 09 10:18	29° $\text{II}$ 09'48	1.45869 AU
					14250 Jun 09 23:10	0° $\text{S}$	
superior conj	14249 Jun 30 00:28	20° $\text{S}$ 00'22	-2°12'45	evening rise	14250 Jun 25 04:16	23° $\text{S}$ 51'46	
minimum elong	14249 Jun 30 02:55	20° $\text{S}$ 10'03	2°13'44		14250 Jun 29 01:32	0° $\text{Z}$	
	14249 Jul 06 06:29	0° $\text{Z}$		greatest brilliancy	14250 Jul 03 20:25	7° $\text{Z}$ 30'54	-0.8m
evening rise	14249 Jul 14 11:53	13° $\text{Z}$ 25'46		asc. node	14250 Jul 10 21:39	18° $\text{Z}$ 04'14	
asc. node	14249 Jul 24 00:51	29° $\text{Z}$ 00'42		evening max el	14250 Jul 16 22:26	25° $\text{Z}$ 29'14	18°46'43
	14249 Jul 24 15:57	0° $\text{np}$		retrograde	14250 Jul 23 13:38	29° $\text{Z}$ 06'24	
evening max el	14249 Aug 02 10:30	11° $\text{np}$ 46'09	18°15'58	evening set	14250 Jul 26 21:17	28° $\text{Z}$ 03'10	
retrograde	14249 Aug 08 19:11	15° $\text{np}$ 08'41		inferior conj	14250 Aug 01 11:15	22° $\text{Z}$ 21'53	2°47'28
evening set	14249 Aug 11 17:54	14° $\text{np}$ 21'22		minimum elong	14250 Aug 01 13:09	22° $\text{Z}$ 15'55	2°46'24
inferior conj	14249 Aug 17 16:37	8° $\text{np}$ 55'00	2°13'55	min. Earth dist.	14250 Aug 03 06:54	20° $\text{Z}$ 05'44	0.66037 AU
minimum elong	14249 Aug 17 19:02	8° $\text{np}$ 48'02	2°12'48	morning rise	14250 Aug 07 04:08	15° $\text{Z}$ 57'15	
min. Earth dist.	14249 Aug 20 02:26	6° $\text{np}$ 09'49	0.64205 AU	desc. node	14250 Aug 12 19:28	13° $\text{Z}$ 19'35	
morning rise	14249 Aug 23 18:38	2° $\text{np}$ 36'11		direct	14250 Aug 13 11:32	13° $\text{Z}$ 17'55	
desc. node	14249 Aug 25 21:58	1° $\text{np}$ 10'56		morning max el	14250 Aug 26 14:06	21° $\text{Z}$ 04'04	26°38'07
direct	14249 Aug 30 08:47	0° $\text{np}$ 01'01			14250 Sep 03 07:58	0° $\text{np}$	
morning max el	14249 Sep 13 02:42	7° $\text{np}$ 59'52	27°33'06		14250 Sep 23 07:39	0° $\text{Z}$	
	14249 Sep 30 03:38	0° $\text{Z}$		morning set	14250 Oct 01 10:01	14° $\text{Z}$ 34'51	
	14249 Oct 17 10:14	0° $\text{M}$		max. Earth dist.	14250 Oct 05 10:33	22° $\text{Z}$ 22'54	1.34267 AU
morning set	14249 Oct 18 05:38	1° $\text{M}$ 35'31		asc. node	14250 Oct 06 23:31	25° $\text{Z}$ 27'57	
asc. node	14249 Oct 20 02:53	5° $\text{M}$ 22'06			14250 Oct 09 04:49	0° $\text{M}$	
max. Earth dist.	14249 Oct 22 22:08	11° $\text{M}$ 08'39	1.32705 AU				
				superior conj	14250 Oct 10 06:16	2° $\text{M}$ 11'46	0°30'22
superior conj	14249 Oct 26 06:43	18° $\text{M}$ 16'52	0°55'21	minimum elong	14250 Oct 10 04:42	2° $\text{M}$ 03'40	0°30'32
minimum elong	14249 Oct 26 04:29	18° $\text{M}$ 04'51	0°55'41	evening rise	14250 Oct 17 15:27	17° $\text{M}$ 45'54	
	14249 Oct 31 16:23	0° $\text{X}$			14250 Oct 23 16:45	0° $\text{X}$	
evening rise	14249 Nov 02 05:45	3° $\text{X}$ 21'09		evening max el	14250 Nov 06 05:23	20° $\text{X}$ 02'35	21°13'57
	14249 Nov 16 13:24	0° $\text{Z}$		desc. node	14250 Nov 08 15:42	22° $\text{X}$ 12'23	
desc. node	14249 Nov 21 18:26	6° $\text{Z}$ 53'20		retrograde	14250 Nov 18 03:01	25° $\text{X}$ 57'05	
evening max el	14249 Nov 24 13:45	9° $\text{Z}$ 52'29	22°51'05	evening set	14250 Nov 20 19:44	25° $\text{X}$ 40'07	
retrograde	14249 Dec 07 15:48	16° $\text{Z}$ 22'03		inferior conj	14250 Nov 29 16:29	21° $\text{X}$ 47'21	-5°32'27
evening set	14249 Dec 11 15:29	15° $\text{Z}$ 47'26		minimum elong	14250 Nov 29 08:36	21° $\text{X}$ 58'28	5°30'07
min. Earth dist.	14249 Dec 18 22:36	12° $\text{Z}$ 26'56	0.54839 AU	min. Earth dist.	14250 Nov 30 04:26	21° $\text{X}$ 30'28	0.54473 AU
inferior conj	14249 Dec 20 01:03	11° $\text{Z}$ 49'20	-5°58'38	morning rise	14250 Dec 07 21:59	17° $\text{X}$ 57'02	
minimum elong	14249 Dec 20 01:38	11° $\text{Z}$ 48'30	5°57'35	direct	14250 Dec 11 21:45	17° $\text{X}$ 22'45	
morning rise	14249 Dec 28 13:10	8° $\text{Z}$ 00'48		morning max el	14250 Dec 24 18:43	23° $\text{X}$ 35'29	22°41'40
direct	14249 Dec 31 14:22	7° $\text{Z}$ 39'16			14250 Dec 30 10:30	0° $\text{Z}$	
morning max el	14250 Jan 12 02:13	13° $\text{Z}$ 09'30	21°00'16	asc. node	14251 Jan 02 23:51	5° $\text{Z}$ 04'04	
asc. node	14250 Jan 16 02:37	17° $\text{Z}$ 37'51		morning set	14251 Jan 16 01:13	29° $\text{Z}$ 30'15	
	14250 Jan 24 02:08	0° $\text{Z}$			14251 Jan 16 06:49	0° $\text{Z}$	
morning set	14250 Jan 31 14:01	14° $\text{Z}$ 44'16					
				superior conj	14251 Jan 23 00:44	14° $\text{Z}$ 29'22	1°28'33

minimum elong	14251 Jan 23 02:33	14°  39'07	1°29'13	morning max el	14251 Dec 06 04:20	3°  33'46	24°30'56
max. Earth dist.	14251 Jan 26 12:58	21°  52'24	1.33729 AU	asc. node	14251 Dec 20 20:59	23°  20'33	
	14251 Jan 30 13:31	0°  ✕			14251 Dec 24 13:14	0°  ✕	
evening rise	14251 Jan 31 01:58	1°  01'04		morning set	14251 Dec 31 13:09	14°  ✕13'59	
desc. node	14251 Feb 04 15:25	9°  ✕39'04					
	14251 Feb 16 19:29	0°  Y		superior conj	14252 Jan 07 08:06	29°  ✕05'13	1°36'16
evening max el	14251 Mar 06 18:54	22°  Y48'15	27°09'42	minimum elong	14252 Jan 07 08:55	29°  ✕09'41	1°37'13
	14251 Mar 17 21:41	0°  8			14252 Jan 07 18:07	0°  ✕	
retrograde	14251 Mar 20 06:14	0°  817'07		max. Earth dist.	14252 Jan 09 12:18	3°  ✕49'22	1.32367 AU
	14251 Mar 22 12:41	30°  R Y		evening rise	14252 Jan 14 18:16	14°  ✕51'31	
evening set	14251 Mar 26 21:19	27°  Y45'30		desc. node	14252 Jan 22 12:04	29°  ✕42'52	
min. Earth dist.	14251 Mar 30 19:01	24°  Y02'47	0.65299 AU		14252 Jan 22 15:52	0°  ✕	
asc. node	14251 Mar 31 20:39	22°  Y51'36			14252 Feb 11 16:44	0°  Y	
inferior conj	14251 Apr 02 02:37	21°  Y27'00	0°23'41	evening max el	14252 Feb 17 07:04	6°  Y00'47	27°33'16
minimum elong	14251 Apr 02 01:58	21°  Y28'49	0°23'09	retrograde	14252 Mar 02 02:35	13°  Y28'22	
morning rise	14251 Apr 08 08:18	15°  Y56'42		evening set	14252 Mar 08 22:49	11°  Y04'05	
direct	14251 Apr 11 02:00	15°  Y16'45		min. Earth dist.	14252 Mar 12 17:29	7°  Y50'24	0.63403 AU
morning max el	14251 Apr 17 09:55	18°  Y34'17	17°59'31	inferior conj	14252 Mar 15 12:02	5°  Y02'28	-0°43'43
	14251 Apr 26 01:10	0°  8		minimum elong	14252 Mar 15 13:27	4°  Y58'54	0°43'07
desc. node	14251 May 03 17:44	12°  823'04		asc. node	14252 Mar 17 18:06	2°  Y50'54	
morning set	14251 May 05 11:33	15°  814'23			14252 Mar 21 18:26	30°  R ✕	
	14251 May 14 13:41	0°  II		morning rise	14252 Mar 22 06:34	29°  ✕47'14	
				direct	14252 Mar 24 16:05	29°  ✕19'21	
superior conj	14251 May 19 21:37	8°  II28'52	-1°45'42		14252 Mar 27 13:06	0°  Y	
minimum elong	14251 May 19 12:37	7°  II53'19	1°45'49	morning max el	14252 Mar 31 03:35	2°  Y38'08	17°46'37
max. Earth dist.	14251 May 23 06:15	13°  II45'54	1.45671 AU	morning set	14252 Apr 16 13:18	27°  Y31'26	
	14251 Jun 02 17:16	0°  ☿			14252 Apr 17 23:55	0°  8	
evening rise	14251 Jun 04 23:29	3°  ☿28'42		desc. node	14252 Apr 19 14:21	2°  844'29	
greatest brilliancy	14251 Jun 18 12:42	24°  ☿01'20	-0.7m				
	14251 Jun 22 16:38	0°  Ω		superior conj	14252 Apr 29 03:05	18°  841'40	-1°10'07
asc. node	14251 Jun 27 18:30	6°  Ω35'46		minimum elong	14252 Apr 28 20:10	18°  813'21	1°09'55
evening max el	14251 Jun 30 05:41	9°  Ω17'35	19°34'04	max. Earth dist.	14252 May 05 00:35	28°  812'02	1.44753 AU
retrograde	14251 Jul 07 11:31	13°  Ω21'38			14252 May 06 03:49	0°  II	
evening set	14251 Jul 11 04:38	12°  Ω01'31		evening rise	14252 May 14 10:22	12°  II52'37	
inferior conj	14251 Jul 16 13:12	6°  Ω06'53	3°05'48		14252 May 25 19:34	0°  ☿	
minimum elong	14251 Jul 16 14:12	6°  Ω03'34	3°04'47	evening max el	14252 Jun 12 07:10	23°  ☿07'55	20°36'05
min. Earth dist.	14251 Jul 17 18:33	4°  Ω29'28	0.67466 AU	asc. node	14252 Jun 13 15:27	24°  ☿24'34	
morning rise	14251 Jul 21 23:16	29°  ☿42'12		retrograde	14252 Jun 20 10:25	27°  ☿48'53	
	14251 Jul 21 15:28	30°  R ☿		evening set	14252 Jun 24 13:46	26°  ☿11'40	
direct	14251 Jul 27 20:55	27°  ☿07'27		inferior conj	14252 Jun 29 19:52	20°  ☿05'04	3°11'17
desc. node	14251 Jul 30 16:54	27°  ☿37'44		minimum elong	14252 Jun 29 19:51	20°  ☿05'07	3°10'15
	14251 Aug 04 00:41	0°  Ω		min. Earth dist.	14252 Jun 30 11:21	19°  ☿11'43	0.68440 AU
morning max el	14251 Aug 09 01:00	4°  Ω25'10	25°22'02	morning rise	14252 Jul 05 01:37	13°  ☿44'06	
	14251 Aug 28 16:20	0°  ♍		direct	14252 Jul 10 11:37	11°  ☿21'18	
morning set	14251 Sep 13 23:16	26°  ♍52'24		desc. node	14252 Jul 16 14:14	13°  ☿41'30	
	14251 Sep 15 16:35	0°  ♌		morning max el	14252 Jul 21 11:19	17°  ☿55'34	23°54'42
max. Earth dist.	14251 Sep 17 13:20	3°  ♌27'14	1.36288 AU		14252 Jul 31 13:57	0°  Ω	
					14252 Aug 20 17:41	0°  ♍	
superior conj	14251 Sep 23 20:43	15°  ♌38'54	0°00'15	morning set	14252 Aug 25 16:56	8°  ♍17'22	
minimum elong	14251 Sep 23 20:42	15°  ♌38'47	0°00'25	max. Earth dist.	14252 Aug 29 11:15	14°  ♍49'32	1.38605 AU
behind sun begin	14251 Sep 23 14:22	15°  ♌07'17					
behind sun end	14251 Sep 24 03:02	16°  ♌10'22		superior conj	14252 Sep 05 22:34	28°  ♍30'01	-0°33'48
asc. node	14251 Sep 23 20:05	15°  ♌35'44		minimum elong	14252 Sep 06 00:58	28°  ♍41'22	0°33'30
	14251 Sep 30 22:17	0°  ♍			14252 Sep 06 17:32	0°  ♌	
evening rise	14251 Oct 01 21:38	1°  ♍59'17		asc. node	14252 Sep 09 16:38	5°  ♌42'02	
	14251 Oct 18 13:47	0°  ✕		evening rise	14252 Sep 14 21:41	15°  ♌54'52	
evening max el	14251 Oct 19 10:21	0°  ✕53'26	19°54'12		14252 Sep 22 08:37	0°  ♍	
desc. node	14251 Oct 26 13:03	5°  ✕32'22		evening max el	14252 Oct 01 05:18	12°  ♍33'48	18°56'11
retrograde	14251 Oct 29 17:08	6°  ✕00'54		retrograde	14252 Oct 09 21:58	16°  ♍55'56	
evening set	14251 Oct 31 16:44	5°  ✕50'20		evening set	14252 Oct 11 19:00	16°  ♍44'31	
inferior conj	14251 Nov 09 12:54	1°  ✕50'23	-4°12'06	desc. node	14252 Oct 12 10:28	16°  ♍35'33	
minimum elong	14251 Nov 09 03:01	2°  ✕05'29	4°08'09	inferior conj	14252 Oct 20 02:19	12°  ♍27'06	-2°25'44
min. Earth dist.	14251 Nov 11 12:26	0°  ✕37'45	0.55056 AU	minimum elong	14252 Oct 19 20:12	12°  ♍37'51	2°22'44
	14251 Nov 12 13:55	30°  R ♍		min. Earth dist.	14252 Oct 23 00:51	10°  ♍23'34	0.56478 AU
morning rise	14251 Nov 17 11:55	27°  ♍38'13		morning rise	14252 Oct 27 18:25	7°  ♍40'06	
direct	14251 Nov 22 10:25	26°  ♍44'43		direct	14252 Nov 02 12:02	6°  ♍22'12	
	14251 Dec 01 19:23	0°  ✕		morning max el	14252 Nov 16 15:53	13°  ♍39'10	26°10'02

	14252 Nov 29 13:33	0°♊			14253 Nov 22 18:58	0°♊	
asc. node	14252 Dec 06 18:00	12°♊14'41		asc. node	14253 Nov 23 14:54	1°♊36'02	
morning set	14252 Dec 15 00:06	28°♊51'00		morning set	14253 Nov 29 08:20	13°♊16'30	
	14252 Dec 15 12:54	0°♋					
superior conj	14252 Dec 21 18:32	13°♋46'40	1°37'50	superior conj	14253 Dec 06 06:06	28°♊27'41	1°33'28
minimum elong	14252 Dec 21 18:16	13°♋45'11	1°38'53	minimum elong	14253 Dec 06 04:51	28°♊20'42	1°34'26
max. Earth dist.	14252 Dec 22 17:42	15°♋55'26	1.31501 AU	max. Earth dist.	14253 Dec 06 01:56	28°♊04'24	1.31142 AU
evening rise	14252 Dec 28 18:31	29°♋00'41		evening rise	14253 Dec 06 22:36	0°♋	
	14252 Dec 29 05:52	0°♌			14253 Dec 13 00:19	13°♋22'12	
desc. node	14253 Jan 08 08:48	19°♌25'19		desc. node	14253 Dec 21 07:33	0°♌	
	14253 Jan 14 19:58	0°♍			14253 Dec 26 05:40	8°♌37'53	
evening max el	14253 Jan 29 15:43	18°♍36'39	27°25'24	evening max el	14254 Jan 11 07:55	0°♍	
retrograde	14253 Feb 12 14:42	25°♍56'18		retrograde	14254 Jan 11 17:57	0°♍24'02	26°42'49
evening set	14253 Feb 19 11:08	23°♍46'58		retrograde	14254 Jan 25 17:09	7°♍33'37	
min. Earth dist.	14253 Feb 23 05:57	20°♍56'11	0.61279 AU	evening set	14254 Feb 01 06:49	5°♍46'24	
inferior conj	14253 Feb 26 08:25	18°♍10'18	-2°02'14	min. Earth dist.	14254 Feb 05 07:46	3°♍08'38	0.59080 AU
minimum elong	14253 Feb 26 12:47	18°♍00'33	2°00'11	inferior conj	14254 Feb 08 12:07	0°♍40'45	-3°27'35
asc. node	14253 Mar 04 15:34	13°♍36'58		minimum elong	14254 Feb 08 19:40	0°♍26'04	3°24'19
morning rise	14253 Mar 05 17:30	13°♍13'03			14254 Feb 09 09:13	30°♎	
direct	14253 Mar 07 20:52	12°♍53'34		morning rise	14254 Feb 16 11:41	26°♌04'34	
morning max el	14253 Mar 14 20:08	16°♍24'08	17°51'46	direct	14254 Feb 18 12:07	25°♌49'55	
	14253 Mar 24 10:00	0°♏		asc. node	14254 Feb 19 13:01	25°♌53'56	
morning set	14253 Mar 30 11:39	10°♏46'12		morning max el	14254 Feb 26 08:01	29°♌42'31	18°16'16
desc. node	14253 Apr 06 10:54	23°♏14'16			14254 Feb 26 15:02	0°♐	
				morning set	14254 Mar 14 00:47	24°♐41'09	
superior conj	14253 Apr 10 08:20	0°♑00'39	-0°30'40		14254 Mar 16 20:12	0°♑	
minimum elong	14253 Apr 10 05:32	29°♑48'35	0°30'38	superior conj	14254 Mar 23 12:12	12°♑21'56	0°06'30
	14253 Apr 10 08:11	0°♒		minimum elong	14254 Mar 23 12:40	12°♑24'06	0°06'19
max. Earth dist.	14253 Apr 17 15:47	12°♒15'06	1.43209 AU	behind sun begin	14254 Mar 23 05:48	11°♑52'56	
evening rise	14253 Apr 24 05:07	22°♒44'10		behind sun end	14254 Mar 23 19:33	12°♑55'12	
	14253 Apr 28 21:52	0°♓		desc. node	14254 Mar 24 07:25	13°♑48'44	
	14253 May 20 00:45	0°♈		max. Earth dist.	14254 Mar 31 02:29	25°♑41'44	1.41202 AU
evening max el	14253 May 26 03:06	6°♈58'51	21°49'29		14254 Apr 02 16:01	0°♈	
asc. node	14253 May 31 12:30	11°♈16'41		evening rise	14254 Apr 04 18:13	3°♈26'35	
retrograde	14253 Jun 04 08:34	12°♈22'52			14254 Apr 22 04:38	0°♓	
evening set	14253 Jun 08 22:53	10°♈29'10		evening max el	14254 May 08 18:52	20°♓50'57	23°09'28
inferior conj	14253 Jun 14 05:00	4°♈12'06	3°05'29	asc. node	14254 May 18 09:41	26°♓55'44	
minimum elong	14253 Jun 14 04:03	4°♈15'25	3°04'19	retrograde	14254 May 19 04:39	26°♓58'32	
min. Earth dist.	14253 Jun 14 07:09	4°♈04'39	0.68936 AU	evening set	14254 May 24 06:23	24°♓49'58	
	14253 Jun 17 09:18	30°♎♓		min. Earth dist.	14254 May 29 03:56	19°♓01'59	0.68947 AU
morning rise	14253 Jun 19 09:03	27°♓57'06		inferior conj	14254 May 29 14:43	18°♓24'43	2°49'12
direct	14253 Jun 24 06:30	25°♓51'28		minimum elong	14254 May 29 13:01	18°♓30'33	2°47'54
	14253 Jul 02 07:47	0°♈		morning rise	14254 Jun 03 19:36	12°♓17'02	
desc. node	14253 Jul 03 11:28	1°♈05'01		direct	14254 Jun 08 04:23	10°♓31'20	
morning max el	14253 Jul 03 23:12	1°♈34'03	22°25'30	morning max el	14254 Jun 16 15:51	15°♓23'22	21°02'25
	14253 Jul 25 11:19	0°♉		desc. node	14254 Jun 20 08:34	19°♓27'29	
morning set	14253 Aug 06 10:52	18°♉39'41			14254 Jun 28 09:29	0°♈	
max. Earth dist.	14253 Aug 11 11:23	26°♉57'47	1.40962 AU	morning set	14254 Jul 17 04:52	28°♈01'03	
	14253 Aug 13 06:22	0°♊			14254 Jul 18 11:14	0°♉	
superior conj	14253 Aug 19 07:32	10°♊34'39	-1°09'22	max. Earth dist.	14254 Jul 24 17:36	10°♉00'16	1.43067 AU
minimum elong	14253 Aug 19 12:52	10°♊58'29	1°09'01	superior conj	14254 Jul 31 19:21	21°♉44'00	-1°42'12
asc. node	14253 Aug 27 13:09	25°♊42'45		minimum elong	14254 Aug 01 02:42	22°♉15'08	1°42'10
evening rise	14253 Aug 29 12:16	29°♊23'44			14254 Aug 05 14:49	0°♊	
	14253 Aug 29 20:00	0°♋		evening rise	14254 Aug 12 13:15	12°♊15'58	
evening max el	14253 Sep 14 10:48	24°♋57'16	18°19'42	asc. node	14254 Aug 14 09:45	15°♊34'31	
retrograde	14253 Sep 21 22:15	28°♋45'06			14254 Aug 22 20:53	0°♋	
evening set	14253 Sep 24 00:06	28°♋28'14		evening max el	14254 Aug 28 22:42	7°♋54'55	18°03'25
desc. node	14253 Sep 29 07:58	25°♋35'44		retrograde	14254 Sep 04 15:53	11°♋22'08	
inferior conj	14253 Oct 01 13:24	23°♋49'32	-0°42'18	evening set	14254 Sep 07 01:09	10°♋55'59	
minimum elong	14253 Oct 01 11:50	23°♋52'47	0°41'21	inferior conj	14254 Sep 13 21:00	5°♋57'06	0°42'58
min. Earth dist.	14253 Oct 04 20:08	21°♋08'22	0.58476 AU	minimum elong	14254 Sep 13 22:18	5°♋54'01	0°42'29
morning rise	14253 Oct 08 20:06	18°♋25'48		desc. node	14254 Sep 16 05:29	3°♋42'02	
direct	14253 Oct 15 03:20	16°♋41'05		min. Earth dist.	14254 Sep 17 00:33	2°♋57'58	0.60745 AU
morning max el	14253 Oct 29 10:46	24°♋19'54	27°21'51	morning rise	14254 Sep 20 16:27	0°♌03'47	
	14253 Nov 03 15:10	0°♍			14254 Sep 20 18:48	30°♎♍	

direct	14254 Sep 27 07:08	27° $\mathbb{M}$ 53'49		direct	14255 Sep 09 21:23	10° $\mathbb{M}$ 01'06	
	14254 Oct 04 05:53	0° $\mathbb{L}$		morning max el	14255 Sep 23 21:31	18° $\mathbb{M}$ 02'25	27°51'35
morning max el	14254 Oct 11 13:25	5° $\mathbb{L}$ 48'26	27°56'11		14255 Oct 03 22:40	0° $\mathbb{L}$	
	14254 Oct 29 17:41	0° $\mathbb{M}$			14255 Oct 22 14:07	0° $\mathbb{M}$	
asc. node	14254 Nov 10 11:43	21° $\mathbb{M}$ 16'57		morning set	14255 Oct 28 08:46	11° $\mathbb{M}$ 13'14	
morning set	14254 Nov 13 11:57	27° $\mathbb{M}$ 25'32		asc. node	14255 Oct 28 08:28	11° $\mathbb{M}$ 11'46	
	14254 Nov 14 17:20	0° $\mathbb{X}$		max. Earth dist.	14255 Nov 02 11:17	21° $\mathbb{M}$ 52'36	1.32032 AU
max. Earth dist.	14254 Nov 19 09:04	10° $\mathbb{X}$ 06'18	1.31313 AU				
				superior conj	14255 Nov 05 01:10	27° $\mathbb{M}$ 27'47	1°07'13
superior conj	14254 Nov 20 16:56	13° $\mathbb{X}$ 02'58	1°23'15	minimum elong	14255 Nov 04 22:52	27° $\mathbb{M}$ 15'14	1°07'41
minimum elong	14254 Nov 20 14:57	12° $\mathbb{X}$ 52'00	1°23'59		14255 Nov 06 04:58	0° $\mathbb{X}$	
evening rise	14254 Nov 27 09:37	27° $\mathbb{X}$ 50'38		evening rise	14255 Nov 11 20:34	12° $\mathbb{X}$ 21'51	
	14254 Nov 28 09:43	0° $\mathbb{Z}$			14255 Nov 20 15:20	0° $\mathbb{Z}$	
desc. node	14254 Dec 13 02:38	27° $\mathbb{Z}$ 08'38		desc. node	14255 Nov 29 23:43	14° $\mathbb{Z}$ 42'21	
	14254 Dec 15 01:06	0° $\mathbb{A}$		evening max el	14255 Dec 05 22:30	21° $\mathbb{Z}$ 29'33	23°50'30
evening max el	14254 Dec 24 11:37	11° $\mathbb{A}$ 17'36	25°27'41	retrograde	14255 Dec 19 11:07	28° $\mathbb{Z}$ 13'04	
retrograde	14255 Jan 07 08:32	18° $\mathbb{A}$ 16'35		evening set	14255 Dec 24 05:18	27° $\mathbb{Z}$ 23'48	
evening set	14255 Jan 13 05:48	16° $\mathbb{A}$ 57'24		min. Earth dist.	14255 Dec 30 09:37	24° $\mathbb{Z}$ 23'24	0.55432 AU
min. Earth dist.	14255 Jan 17 23:59	14° $\mathbb{A}$ 17'37	0.57032 AU	inferior conj	14256 Jan 01 06:49	23° $\mathbb{Z}$ 16'00	-5°46'24
inferior conj	14255 Jan 20 19:48	12° $\mathbb{A}$ 23'40	-4°49'00	minimum elong	14256 Jan 01 12:10	23° $\mathbb{Z}$ 08'01	5°44'49
minimum elong	14255 Jan 21 04:46	12° $\mathbb{A}$ 08'33	4°45'51	morning rise	14256 Jan 09 20:48	19° $\mathbb{Z}$ 20'28	
morning rise	14255 Jan 29 06:25	8° $\mathbb{A}$ 09'41		direct	14256 Jan 12 10:55	19° $\mathbb{Z}$ 03'40	
direct	14255 Jan 31 09:20	7° $\mathbb{A}$ 56'15		morning max el	14256 Jan 23 01:34	24° $\mathbb{Z}$ 09'41	20°10'30
asc. node	14255 Feb 06 10:27	9° $\mathbb{A}$ 53'23		asc. node	14256 Jan 24 07:49	25° $\mathbb{Z}$ 26'41	
morning max el	14255 Feb 09 11:09	12° $\mathbb{A}$ 21'20	19°01'56		14256 Jan 28 00:44	0° $\mathbb{A}$	
	14255 Feb 21 07:50	0° $\mathbb{H}$		morning set	14256 Feb 10 05:52	23° $\mathbb{A}$ 38'01	
morning set	14255 Feb 25 24:00	9° $\mathbb{H}$ 01'44			14256 Feb 13 08:17	0° $\mathbb{H}$	
superior conj	14255 Mar 06 10:17	25° $\mathbb{H}$ 32'23	0°38'09	superior conj	14256 Feb 17 22:08	9° $\mathbb{H}$ 19'28	1°03'07
minimum elong	14255 Mar 06 12:31	25° $\mathbb{H}$ 43'03	0°37'58	minimum elong	14256 Feb 18 00:50	9° $\mathbb{H}$ 32'59	1°03'11
	14255 Mar 08 18:52	0° $\mathbb{Y}$		max. Earth dist.	14256 Feb 23 15:50	20° $\mathbb{H}$ 31'37	1.36722 AU
desc. node	14255 Mar 11 03:56	4° $\mathbb{Y}$ 23'45		desc. node	14256 Feb 26 00:28	24° $\mathbb{H}$ 55'51	
max. Earth dist.	14255 Mar 13 09:09	8° $\mathbb{Y}$ 24'05	1.38955 AU	evening rise	14256 Feb 27 10:19	27° $\mathbb{H}$ 30'13	
evening rise	14255 Mar 17 04:30	15° $\mathbb{Y}$ 03'42			14256 Feb 28 19:43	0° $\mathbb{Y}$	
	14255 Mar 26 07:23	0° $\mathbb{B}$			14256 Mar 18 16:50	0° $\mathbb{B}$	
	14255 Apr 16 23:18	0° $\mathbb{I}$		evening max el	14256 Apr 02 22:05	18° $\mathbb{B}$ 36'32	25°44'12
evening max el	14255 Apr 21 08:33	4° $\mathbb{I}$ 43'51	24°30'03	retrograde	14256 Apr 15 09:35	25° $\mathbb{B}$ 47'39	
retrograde	14255 May 02 21:21	11° $\mathbb{I}$ 28'54		evening set	14256 Apr 21 09:59	23° $\mathbb{B}$ 18'51	
asc. node	14255 May 05 06:58	11° $\mathbb{I}$ 03'42		asc. node	14256 Apr 21 04:20	23° $\mathbb{B}$ 30'30	
evening set	14255 May 08 10:38	9° $\mathbb{I}$ 08'16		min. Earth dist.	14256 Apr 25 16:03	18° $\mathbb{B}$ 42'55	0.67574 AU
min. Earth dist.	14255 May 12 23:37	3° $\mathbb{I}$ 56'41	0.68485 AU	inferior conj	14256 Apr 27 04:04	16° $\mathbb{B}$ 48'27	1°45'30
inferior conj	14255 May 13 23:03	2° $\mathbb{I}$ 38'07	2°22'39	minimum elong	14256 Apr 27 01:59	16° $\mathbb{B}$ 55'04	1°44'09
minimum elong	14255 May 13 20:56	2° $\mathbb{I}$ 45'12	2°21'15	morning rise	14256 May 02 18:34	10° $\mathbb{B}$ 58'49	
	14255 May 15 23:40	30° $\mathbb{R}$ $\mathbb{B}$		direct	14256 May 06 03:54	9° $\mathbb{B}$ 53'04	
morning rise	14255 May 19 07:25	26° $\mathbb{B}$ 38'49		morning max el	14256 May 12 22:19	13° $\mathbb{B}$ 32'34	18°54'34
direct	14255 May 23 04:01	25° $\mathbb{B}$ 13'39		desc. node	14256 May 24 02:28	28° $\mathbb{B}$ 08'27	
morning max el	14255 May 30 15:24	29° $\mathbb{B}$ 23'28	19°51'00		14256 May 25 08:16	0° $\mathbb{I}$	
	14255 May 31 05:54	0° $\mathbb{I}$		greatest brilliancy	14256 May 26 09:48	1° $\mathbb{I}$ 36'25	-0.8m
desc. node	14255 Jun 07 05:34	8° $\mathbb{I}$ 32'23		morning set	14256 Jun 04 15:50	15° $\mathbb{I}$ 50'51	
	14255 Jun 21 21:29	0° $\mathbb{E}$			14256 Jun 13 18:26	0° $\mathbb{E}$	
morning set	14255 Jun 26 07:52	6° $\mathbb{E}$ 46'18		max. Earth dist.	14256 Jun 18 23:08	8° $\mathbb{E}$ 06'25	1.45648 AU
max. Earth dist.	14255 Jul 07 05:54	23° $\mathbb{E}$ 47'25	1.44680 AU				
	14255 Jul 11 03:17	0° $\mathbb{Q}$		superior conj	14256 Jun 20 23:19	11° $\mathbb{E}$ 15'09	-2°13'38
				minimum elong	14256 Jun 20 22:28	11° $\mathbb{E}$ 11'49	2°14'40
superior conj	14255 Jul 12 07:29	1° $\mathbb{Q}$ 53'38	-2°06'01		14256 Jul 02 18:48	0° $\mathbb{Q}$	
minimum elong	14255 Jul 12 13:15	2° $\mathbb{Q}$ 16'59	2°06'40	evening rise	14256 Jul 06 02:07	5° $\mathbb{Q}$ 19'38	
evening rise	14255 Jul 25 19:28	24° $\mathbb{Q}$ 18'16		asc. node	14256 Jul 18 03:08	24° $\mathbb{Q}$ 30'43	
	14255 Jul 29 04:02	0° $\mathbb{P}$			14256 Jul 21 22:55	0° $\mathbb{P}$	
asc. node	14255 Aug 01 06:25	5° $\mathbb{P}$ 12'31		evening max el	14256 Jul 26 02:54	4° $\mathbb{P}$ 55'32	18°27'00
evening max el	14255 Aug 12 13:10	21° $\mathbb{P}$ 17'21	18°06'11	retrograde	14256 Aug 01 13:19	8° $\mathbb{P}$ 22'32	
retrograde	14255 Aug 18 22:19	24° $\mathbb{P}$ 37'47		evening set	14256 Aug 04 15:46	7° $\mathbb{P}$ 28'42	
evening set	14255 Aug 21 15:57	23° $\mathbb{P}$ 59'02		inferior conj	14256 Aug 10 10:21	1° $\mathbb{P}$ 56'05	2°30'10
inferior conj	14255 Aug 27 21:21	18° $\mathbb{P}$ 42'19	1°46'32	minimum elong	14256 Aug 10 12:38	1° $\mathbb{P}$ 49'17	2°29'04
minimum elong	14255 Aug 27 23:44	18° $\mathbb{P}$ 35'53	1°45'30		14256 Aug 12 01:13	30° $\mathbb{R}$ $\mathbb{Q}$	
min. Earth dist.	14255 Aug 30 14:50	15° $\mathbb{P}$ 46'24	0.63000 AU	min. Earth dist.	14256 Aug 12 14:21	29° $\mathbb{Q}$ 21'30	0.65034 AU
morning rise	14255 Sep 03 05:25	12° $\mathbb{P}$ 29'57		morning rise	14256 Aug 16 08:14	25° $\mathbb{Q}$ 34'02	
desc. node	14255 Sep 03 02:59	12° $\mathbb{P}$ 34'30		desc. node	14256 Aug 20 00:30	23° $\mathbb{Q}$ 24'29	

direct	14256 Aug 22 20:10	22°♄55'38		min. Earth dist.	14257 Jul 26 21:59	13°♄31'16	0.66707 AU
	14256 Sep 04 11:32	0°♄		morning rise	14257 Jul 30 22:11	9°♄06'46	
morning max el	14256 Sep 05 08:11	0°♄51'04	27°12'46	direct	14257 Aug 06 01:51	6°♄28'25	
	14256 Sep 27 00:17	0°♄		desc. node	14257 Aug 06 21:58	6°♄31'03	
morning set	14256 Oct 10 20:00	24°♄32'07		morning max el	14257 Aug 18 19:20	14°♄03'30	26°07'41
	14256 Oct 13 14:18	0°♄			14257 Aug 31 18:54	0°♄	
asc. node	14256 Oct 14 05:07	1°♄14'48			14257 Sep 19 18:21	0°♄	
max. Earth dist.	14256 Oct 15 05:06	3°♄16'58	1.33304 AU	morning set	14257 Sep 23 18:23	7°♄14'44	
				max. Earth dist.	14257 Sep 27 13:13	14°♄25'08	1.35087 AU
superior conj	14256 Oct 19 04:34	11°♄35'28	0°45'26	asc. node	14257 Oct 01 01:43	21°♄22'08	
minimum elong	14256 Oct 19 02:31	11°♄24'38	0°45'40				
evening rise	14256 Oct 26 07:16	26°♄50'16		superior conj	14257 Oct 03 00:37	25°♄19'47	0°18'10
	14256 Oct 27 19:13	0°♄		minimum elong	14257 Oct 02 23:35	25°♄14'35	0°18'20
	14256 Nov 14 22:56	0°♄			14257 Oct 05 07:01	0°♄	
desc. node	14256 Nov 15 20:54	0°♄57'37		evening rise	14257 Oct 10 15:44	11°♄11'09	
evening max el	14256 Nov 16 09:40	1°♄29'26	22°08'18		14257 Oct 20 10:49	0°♄	
retrograde	14256 Nov 29 01:21	7°♄45'24		evening max el	14257 Oct 29 06:26	11°♄54'11	20°37'23
evening set	14256 Dec 02 10:47	7°♄19'56		desc. node	14257 Nov 02 18:10	15°♄29'07	
min. Earth dist.	14256 Dec 10 15:47	3°♄40'35	0.54568 AU	retrograde	14257 Nov 09 11:44	17°♄28'57	
inferior conj	14256 Dec 11 02:04	3°♄26'11	-5°55'08	evening set	14257 Nov 11 19:26	17°♄15'42	
minimum elong	14256 Dec 10 22:39	3°♄30'57	5°53'51	inferior conj	14257 Nov 20 17:41	13°♄21'21	-5°03'34
	14256 Dec 18 06:17	30°♄		minimum elong	14257 Nov 20 07:58	13°♄35'21	5°00'18
morning rise	14256 Dec 19 11:31	29°♄38'58		min. Earth dist.	14257 Nov 21 21:49	12°♄40'45	0.54616 AU
direct	14256 Dec 22 22:07	29°♄12'36		morning rise	14257 Nov 28 20:23	9°♄24'24	
	14256 Dec 27 09:28	0°♄		direct	14257 Dec 03 06:22	8°♄42'35	
morning max el	14257 Jan 04 01:08	5°♄01'53	21°41'29	morning max el	14257 Dec 16 13:21	15°♄10'56	23°28'13
asc. node	14257 Jan 10 05:06	12°♄16'16		asc. node	14257 Dec 28 02:17	0°♄05'19	
	14257 Jan 20 13:44	0°♄			14257 Dec 28 00:59	0°♄	
morning set	14257 Jan 24 15:43	8°♄21'40		morning set	14258 Jan 09 03:24	23°♄06'56	
					14258 Jan 12 07:54	0°♄	
superior conj	14257 Jan 31 19:52	23°♄31'47	1°21'11				
minimum elong	14257 Jan 31 22:10	23°♄43'46	1°21'39	superior conj	14258 Jan 16 00:26	8°♄00'58	1°32'36
	14257 Feb 03 23:05	0°♄		minimum elong	14258 Jan 16 01:51	8°♄08'39	1°33'24
max. Earth dist.	14257 Feb 05 03:29	2°♄23'27	1.34717 AU	max. Earth dist.	14258 Jan 18 22:44	14°♄16'50	1.33093 AU
evening rise	14257 Feb 09 08:12	10°♄35'58		evening rise	14258 Jan 23 18:39	24°♄12'05	
desc. node	14257 Feb 11 21:02	15°♄20'38			14258 Jan 26 18:03	0°♄	
	14257 Feb 20 07:46	0°♄		desc. node	14258 Jan 29 17:38	5°♄33'35	
	14257 Mar 14 04:04	0°♄			14258 Feb 13 21:18	0°♄	
evening max el	14257 Mar 16 11:58	2°♄22'24	26°44'27	evening max el	14258 Feb 27 01:15	15°♄50'24	27°23'19
retrograde	14257 Mar 29 16:12	9°♄47'19		retrograde	14258 Mar 12 16:22	23°♄18'56	
evening set	14257 Apr 05 02:35	7°♄15'15		evening set	14258 Mar 19 10:15	20°♄49'37	
asc. node	14257 Apr 08 01:44	4°♄25'01		min. Earth dist.	14258 Mar 23 06:27	17°♄19'57	0.64526 AU
min. Earth dist.	14257 Apr 09 03:03	3°♄13'42	0.66237 AU	inferior conj	14258 Mar 25 18:55	14°♄37'40	-0°03'24
inferior conj	14257 Apr 11 03:33	0°♄50'36	0°57'03	minimum elong	14258 Mar 25 19:02	14°♄37'23	0°03'32
minimum elong	14257 Apr 11 02:09	0°♄54'45	0°56'05	transit middle	14258 Mar 25 19:02	14°♄37'23	0°03'32
	14257 Apr 11 20:46	30°♄		transit begin	14258 Mar 25 16:02	14°♄45'29	
morning rise	14257 Apr 17 02:54	25°♄12'27		transit end	14258 Mar 25 22:02	14°♄29'18	
direct	14257 Apr 20 02:02	24°♄23'49		asc. node	14258 Mar 25 23:11	14°♄26'12	
morning max el	14257 Apr 26 11:22	27°♄45'43	18°14'44	morning rise	14258 Apr 01 05:47	9°♄13'26	
	14257 Apr 28 13:16	0°♄		direct	14258 Apr 03 19:55	8°♄38'53	
desc. node	14257 May 10 23:15	18°♄07'19		morning max el	14258 Apr 10 04:12	11°♄55'19	17°51'58
morning set	14257 May 15 22:58	26°♄05'27			14258 Apr 22 19:31	0°♄	
	14257 May 18 09:41	0°♄		morning set	14258 Apr 27 10:08	7°♄41'02	
				desc. node	14258 Apr 27 19:56	8°♄22'00	
superior conj	14257 May 31 07:33	20°♄23'15	-2°01'05				
minimum elong	14257 May 30 23:53	19°♄53'16	2°01'38	superior conj	14258 May 11 01:29	0°♄02'45	-1°31'36
max. Earth dist.	14257 Jun 01 19:18	22°♄42'53	1.45882 AU	minimum elong	14258 May 10 16:50	29°♄28'12	1°31'30
	14257 Jun 06 11:28	0°♄			14258 May 11 00:47	0°♄	
evening rise	14257 Jun 16 08:32	15°♄22'25		max. Earth dist.	14258 May 15 15:30	7°♄19'05	1.45364 AU
	14257 Jun 25 19:02	0°♄		evening rise	14258 May 26 22:18	24°♄49'11	
greatest brilliancy	14257 Jun 27 06:41	2°♄15'51	-0.8m		14258 May 30 07:47	0°♄	
asc. node	14257 Jul 04 23:56	13°♄22'16		greatest brilliancy	14258 Jun 10 18:50	17°♄06'30	-0.6m
evening max el	14257 Jul 09 13:09	18°♄42'29	19°04'55		14258 Jun 20 09:54	0°♄	
retrograde	14257 Jul 16 09:28	22°♄29'13		asc. node	14258 Jun 21 20:49	1°♄37'20	
evening set	14257 Jul 19 21:10	21°♄18'44		evening max el	14258 Jun 22 18:02	2°♄32'13	19°58'43
inferior conj	14257 Jul 25 08:28	15°♄31'41	2°56'55	retrograde	14258 Jun 30 08:05	6°♄50'43	
minimum elong	14257 Jul 25 10:00	15°♄26'43	2°55'53	evening set	14258 Jul 04 05:33	5°♄23'06	

	14258 Jul 09 01:45	30° $\text{R}\text{E}$		asc. node	14259 Jun 08 17:48	19° $\text{E}\text{O}$ 3'57	
inferior conj	14258 Jul 09 12:42	29° $\text{E}\text{O}$ 23'00 3°09'34		retrograde	14259 Jun 14 07:01	21° $\text{E}\text{O}$ 21'41	
minimum elong	14258 Jul 09 13:16	29° $\text{E}\text{O}$ 21'05 3°08'33		evening set	14259 Jun 18 14:54	19° $\text{E}\text{O}$ 37'15	
min. Earth dist.	14258 Jul 10 11:59	28° $\text{E}\text{O}$ 04'16 0.67942 AU		inferior conj	14259 Jun 23 20:42	13° $\text{E}\text{O}$ 25'41 3°10'07	
morning rise	14258 Jul 14 20:39	22° $\text{E}\text{O}$ 59'40		minimum elong	14259 Jun 23 20:16	13° $\text{E}\text{O}$ 27'11 3°09'03	
direct	14258 Jul 20 13:26	20° $\text{E}\text{O}$ 29'34		min. Earth dist.	14259 Jun 24 06:24	12° $\text{E}\text{O}$ 51'59 0.68708 AU	
desc. node	14258 Jul 24 19:21	21° $\text{E}\text{O}$ 37'31		morning rise	14259 Jun 29 01:24	7° $\text{E}\text{O}$ 06'53	
morning max el	14258 Aug 01 06:01	27° $\text{E}\text{O}$ 29'48 24°45'42		direct	14259 Jul 04 05:59	4° $\text{E}\text{O}$ 51'05	
	14258 Aug 03 14:31	0° $\text{O}$		desc. node	14259 Jul 11 16:40	8° $\text{E}\text{O}$ 18'05	
	14258 Aug 25 10:29	0° $\text{M}$		morning max el	14259 Jul 14 16:52	11° $\text{E}\text{O}$ 04'24 23°16'28	
morning set	14258 Sep 05 23:50	19° $\text{M}$ 11'09			14259 Jul 29 18:23	0° $\text{O}$	
max. Earth dist.	14258 Sep 09 13:36	25° $\text{M}$ 35'24 1.37260 AU		morning set	14259 Aug 18 07:53	0° $\text{M}$ 10'57	
	14258 Sep 11 22:52	0° $\text{E}$			14259 Aug 18 05:16	0° $\text{M}$	
				max. Earth dist.	14259 Aug 22 11:39	7° $\text{M}$ 14'31 1.39622 AU	
superior conj	14258 Sep 16 10:09	8° $\text{E}$ 32'34 -0°13'51		superior conj	14259 Aug 30 05:22	21° $\text{M}$ 04'59 -0°48'55	
minimum elong	14258 Sep 16 11:03	8° $\text{E}$ 36'58 0°13'37		minimum elong	14259 Aug 30 09:00	21° $\text{M}$ 21'47 0°48'34	
behind sun begin	14258 Sep 16 07:27	8° $\text{E}$ 19'26			14259 Sep 03 23:09	0° $\text{E}$	
behind sun end	14258 Sep 16 14:39	8° $\text{E}$ 54'32		asc. node	14259 Sep 04 18:48	1° $\text{E}$ 34'01	
asc. node	14258 Sep 17 22:16	11° $\text{E}$ 29'43		evening rise	14259 Sep 08 16:11	9° $\text{E}$ 03'39	
evening rise	14258 Sep 24 19:40	25° $\text{E}$ 18'06			14259 Sep 20 13:20	0° $\text{M}$	
	14258 Sep 27 04:13	0° $\text{M}$		evening max el	14259 Sep 24 17:23	5° $\text{M}$ 05'20 18°38'03	
evening max el	14258 Oct 11 17:27	23° $\text{M}$ 05'33 19°26'41		retrograde	14259 Oct 02 20:33	9° $\text{M}$ 11'29	
desc. node	14258 Oct 20 15:31	27° $\text{M}$ 52'01		evening set	14259 Oct 04 18:53	8° $\text{M}$ 58'24	
retrograde	14258 Oct 21 07:24	27° $\text{M}$ 53'20		desc. node	14259 Oct 07 12:58	7° $\text{M}$ 58'22	
evening set	14258 Oct 23 04:29	27° $\text{M}$ 43'04		inferior conj	14259 Oct 12 18:48	4° $\text{M}$ 32'14 -1°40'15	
inferior conj	14258 Oct 31 20:15	23° $\text{M}$ 36'08 -3°28'07		minimum elong	14259 Oct 12 14:44	4° $\text{M}$ 39'54 1°38'07	
minimum elong	14258 Oct 31 11:35	23° $\text{M}$ 50'08 3°24'18		min. Earth dist.	14259 Oct 15 22:35	2° $\text{M}$ 10'16 0.57273 AU	
min. Earth dist.	14258 Nov 03 07:11	22° $\text{M}$ 00'59 0.55571 AU			14259 Oct 19 07:07	30° $\text{R}$ $\text{E}$	
morning rise	14258 Nov 08 16:33	19° $\text{M}$ 10'04		morning rise	14259 Oct 20 07:09	29° $\text{E}$ 28'45	
direct	14258 Nov 13 23:29	18° $\text{M}$ 07'04		direct	14259 Oct 26 07:10	27° $\text{E}$ 59'23	
morning max el	14258 Nov 27 23:00	25° $\text{M}$ 08'37 25°15'37			14259 Nov 02 10:16	0° $\text{M}$	
	14258 Dec 02 11:35	0° $\text{R}$		morning max el	14259 Nov 09 13:33	5° $\text{M}$ 27'21 26°44'46	
asc. node	14258 Dec 14 23:22	18° $\text{R}$ 39'23			14259 Nov 27 13:31	0° $\text{R}$	
	14258 Dec 20 21:40	0° $\text{E}$		asc. node	14259 Dec 01 20:21	7° $\text{R}$ 46'10	
morning set	14258 Dec 24 15:08	7° $\text{E}$ 48'52		morning set	14259 Dec 09 01:09	22° $\text{R}$ 21'39	
					14259 Dec 12 13:08	0° $\text{E}$	
superior conj	14258 Dec 31 09:22	22° $\text{E}$ 40'14 1°37'41		superior conj	14259 Dec 15 20:31	7° $\text{E}$ 22'23 1°36'43	
minimum elong	14258 Dec 31 09:43	22° $\text{E}$ 42'12 1°38'42		minimum elong	14259 Dec 15 19:49	7° $\text{E}$ 18'27 1°37'44	
max. Earth dist.	14259 Jan 02 01:06	26° $\text{E}$ 18'49 1.31932 AU		max. Earth dist.	14259 Dec 16 07:57	8° $\text{E}$ 26'11 1.31277 AU	
	14259 Jan 03 17:45	0° $\approx$		evening rise	14259 Dec 22 17:30	22° $\text{E}$ 26'18	
evening rise	14259 Jan 07 14:39	8° $\approx$ 11'21			14259 Dec 26 09:28	0° $\approx$	
desc. node	14259 Jan 16 14:18	25° $\approx$ 29'21		desc. node	14260 Jan 03 11:04	15° $\approx$ 00'05	
	14259 Jan 19 04:30	0° $\text{H}$			14260 Jan 13 05:21	0° $\text{H}$	
evening max el	14259 Feb 09 12:04	28° $\text{H}$ 48'28 27°34'02		evening max el	14260 Jan 22 18:04	11° $\text{H}$ 03'58 27°11'34	
	14259 Feb 10 19:04	0° $\text{Y}$		retrograde	14260 Feb 05 17:50	18° $\text{H}$ 20'30	
retrograde	14259 Feb 23 09:18	6° $\text{Y}$ 13'30		evening set	14260 Feb 12 12:16	16° $\text{H}$ 19'35	
evening set	14259 Mar 02 06:33	3° $\text{Y}$ 54'14		min. Earth dist.	14260 Feb 16 08:34	13° $\text{H}$ 35'49 0.60334 AU	
min. Earth dist.	14259 Mar 06 00:37	0° $\text{Y}$ 51'38 0.62517 AU		inferior conj	14260 Feb 19 12:54	10° $\text{H}$ 55'14 -2°38'07	
	14259 Mar 06 22:34	30° $\text{R}$ $\text{H}$		minimum elong	14260 Feb 19 18:41	10° $\text{H}$ 43'03 2°35'27	
inferior conj	14259 Mar 08 23:13	28° $\text{H}$ 02'30 -1°15'49		morning rise	14260 Feb 27 04:22	6° $\text{H}$ 06'56	
minimum elong	14259 Mar 09 01:47	27° $\text{H}$ 56'19 1°14'37		asc. node	14260 Feb 27 18:08	5° $\text{H}$ 58'55	
asc. node	14259 Mar 12 20:39	24° $\text{H}$ 38'12		direct	14260 Feb 29 05:50	5° $\text{H}$ 50'03	
morning rise	14259 Mar 15 23:50	22° $\text{H}$ 54'52		morning max el	14260 Mar 07 12:58	9° $\text{H}$ 28'57 17°59'46	
direct	14259 Mar 18 06:27	22° $\text{H}$ 31'00			14260 Mar 20 22:46	0° $\text{Y}$	
morning max el	14259 Mar 24 21:53	25° $\text{H}$ 53'16 17°46'40		morning set	14260 Mar 23 02:38	3° $\text{Y}$ 58'02	
	14259 Mar 28 10:10	0° $\text{Y}$		desc. node	14260 Mar 31 13:05	19° $\text{Y}$ 19'35	
morning set	14259 Apr 09 21:24	20° $\text{Y}$ 24'53					
desc. node	14259 Apr 14 16:33	28° $\text{Y}$ 47'41		superior conj	14260 Apr 02 08:11	22° $\text{Y}$ 30'10 -0°14'23	
	14259 Apr 15 09:16	0° $\text{E}$		minimum elong	14260 Apr 02 06:57	22° $\text{Y}$ 24'43 0°14'29	
superior conj	14259 Apr 21 16:56	10° $\text{E}$ 43'51 -0°53'26		behind sun begin	14260 Apr 02 03:33	22° $\text{Y}$ 09'50	
minimum elong	14259 Apr 21 11:44	10° $\text{E}$ 22'10 0°53'17		behind sun end	14260 Apr 02 10:20	22° $\text{Y}$ 39'35	
max. Earth dist.	14259 Apr 28 08:43	21° $\text{E}$ 37'17 1.44159 AU			14260 Apr 06 16:19	0° $\text{E}$	
	14259 May 03 15:41	0° $\text{II}$		max. Earth dist.	14260 Apr 09 21:21	5° $\text{E}$ 23'08 1.42393 AU	
evening rise	14259 May 06 10:44	4° $\text{II}$ 20'23		evening rise	14260 Apr 15 12:23	14° $\text{E}$ 31'14	
	14259 May 23 17:36	0° $\text{E}$			14260 Apr 25 13:42	0° $\text{II}$	
evening max el	14259 Jun 05 16:56	16° $\text{E}$ 22'20 21°06'03					

	14260 May 18 05:32	0°☿		evening rise	14261 Mar 27 10:29	25°♄36'59	
evening max el	14260 May 18 10:48	0°☿13'14	22°23'06		14261 Mar 30 02:26	0°♄	
asc. node	14260 May 25 14:55	5°☿26'58			14261 Apr 19 06:49	0°♄	
retrograde	14260 May 28 04:33	5°☿56'39		evening max el	14261 May 01 01:34	14°♄05'50	23°44'16
evening set	14260 Jun 01 23:33	3°☿56'35		retrograde	14261 May 11 23:13	20°♄30'05	
	14260 Jun 05 12:18	30°♄		asc. node	14261 May 12 12:10	20°♄28'48	
inferior conj	14260 Jun 07 06:21	27°♄35'38	2°59'50	evening set	14261 May 17 05:50	18°♄16'14	
minimum elong	14260 Jun 07 05:03	27°♄40'08	2°58'38	min. Earth dist.	14261 May 21 23:36	12°♄43'42	0.68804 AU
min. Earth dist.	14260 Jun 07 03:01	27°♄47'16	0.68992 AU	inferior conj	14261 May 22 15:42	11°♄48'38	2°39'14
morning rise	14260 Jun 12 10:24	21°♄23'20		minimum elong	14261 May 22 13:47	11°♄55'11	2°37'53
direct	14260 Jun 17 02:25	19°♄25'51		morning rise	14261 May 27 21:44	5°♄44'15	
morning max el	14260 Jun 26 06:21	24°♄46'53	21°49'00	direct	14261 Jun 01 01:20	4°♄07'05	
desc. node	14260 Jun 27 13:52	26°♄08'44		morning max el	14261 Jun 09 01:35	8°♄39'41	20°30'21
	14260 Jun 30 22:21	0°☿		desc. node	14261 Jun 14 10:57	14°♄50'25	
	14260 Jul 22 04:06	0°♄			14261 Jun 25 08:55	0°☿	
morning set	14260 Jul 28 15:23	10°♄06'48		morning set	14261 Jul 08 01:04	19°☿06'47	
max. Earth dist.	14260 Aug 03 13:36	19°♄44'10	1.41899 AU		14261 Jul 14 23:43	0°♄	
	14260 Aug 09 15:17	0°♄		max. Earth dist.	14261 Jul 16 22:36	3°♄07'16	1.43823 AU
superior conj	14260 Aug 11 05:55	2°♄47'49	-1°23'56	superior conj	14261 Jul 23 07:46	13°♄31'45	-1°53'50
minimum elong	14260 Aug 11 12:20	3°♄15'53	1°23'41	minimum elong	14261 Jul 23 15:04	14°♄01'59	1°54'04
asc. node	14260 Aug 21 15:22	21°♄31'39			14261 Aug 02 00:26	0°♄	
evening rise	14260 Aug 22 01:37	22°♄18'46		evening rise	14261 Aug 04 19:14	4°♄50'56	
	14260 Aug 26 06:38	0°♄		asc. node	14261 Aug 08 11:58	11°♄17'56	
evening max el	14260 Sep 07 02:15	17°♄45'46	18°10'26		14261 Aug 20 18:31	0°♄	
retrograde	14260 Sep 14 04:33	21°♄22'47		evening max el	14261 Aug 21 15:47	0°♄55'23	18°02'22
evening set	14260 Sep 16 09:24	21°♄02'24		retrograde	14261 Aug 28 04:08	4°♄17'42	
desc. node	14260 Sep 23 10:29	16°♄25'16		evening set	14261 Aug 30 17:03	3°♄46'23	
inferior conj	14260 Sep 23 15:04	16°♄15'13	-0°03'35		14261 Sep 04 21:46	30°♄	
minimum elong	14260 Sep 23 14:57	16°♄15'29	0°03'20	inferior conj	14261 Sep 06 06:18	28°♄39'34	1°12'31
transit middle	14260 Sep 23 14:57	16°♄15'29	0°03'20	minimum elong	14261 Sep 06 08:15	28°♄34'40	1°11'42
transit begin	14260 Sep 23 11:37	16°♄22'47		min. Earth dist.	14261 Sep 09 06:08	25°♄39'37	0.61725 AU
transit end	14260 Sep 23 18:17	16°♄08'09		desc. node	14261 Sep 10 08:02	24°♄39'13	
min. Earth dist.	14260 Sep 26 21:47	13°♄23'34	0.59430 AU	morning rise	14261 Sep 12 20:52	22°♄37'14	
morning rise	14260 Sep 30 17:08	10°♄37'52		direct	14261 Sep 19 12:59	20°♄18'20	
direct	14260 Oct 07 04:33	8°♄41'29		morning max el	14261 Oct 03 16:55	28°♄16'05	27°58'45
morning max el	14260 Oct 21 11:47	16°♄28'07	27°41'09		14261 Oct 05 09:14	0°♄	
	14260 Nov 01 15:14	0°♄			14261 Oct 26 11:23	0°♄	
asc. node	14260 Nov 17 17:14	27°♄16'53		asc. node	14261 Nov 04 14:01	17°♄04'09	
	14260 Nov 19 02:00	0°♄		morning set	14261 Nov 06 08:41	20°♄41'17	
morning set	14260 Nov 22 07:41	6°♄40'58			14261 Nov 10 18:13	0°♄	
max. Earth dist.	14260 Nov 28 16:05	20°♄32'57	1.31151 AU	max. Earth dist.	14261 Nov 11 21:39	2°♄29'24	1.31561 AU
superior conj	14260 Nov 29 08:03	22°♄02'07	1°29'51	superior conj	14261 Nov 13 18:02	6°♄33'31	1°17'09
minimum elong	14260 Nov 29 06:27	21°♄53'12	1°30'44	minimum elong	14261 Nov 13 15:52	6°♄21'31	1°17'47
	14260 Dec 02 21:45	0°♄		evening rise	14261 Nov 20 11:20	21°♄22'08	
evening rise	14260 Dec 06 01:05	6°♄51'48			14261 Nov 24 13:56	0°♄	
	14260 Dec 17 22:53	0°♄		desc. node	14261 Dec 07 04:58	22°♄04'46	
desc. node	14260 Dec 20 07:57	3°♄56'20			14261 Dec 13 09:00	0°♄	
evening max el	14261 Jan 03 16:57	22°♄28'50	26°14'25	evening max el	14261 Dec 16 07:27	3°♄02'45	24°48'04
retrograde	14261 Jan 17 15:56	29°♄33'54		retrograde	14261 Dec 30 01:30	9°♄55'05	
evening set	14261 Jan 23 23:36	27°♄58'27		evening set	14262 Jan 04 12:38	8°♄48'53	
min. Earth dist.	14261 Jan 28 06:22	25°♄21'32	0.58174 AU	min. Earth dist.	14262 Jan 09 19:19	6°♄02'48	0.56286 AU
inferior conj	14261 Jan 31 08:25	23°♄06'27	-4°03'36	inferior conj	14262 Jan 12 07:10	4°♄27'48	-5°17'44
minimum elong	14261 Jan 31 16:58	22°♄50'48	4°00'11	minimum elong	14262 Jan 12 15:22	4°♄14'44	5°15'10
morning rise	14261 Feb 08 13:20	18°♄39'24		morning rise	14262 Jan 20 20:18	0°♄22'13	
direct	14261 Feb 10 13:51	18°♄25'47		direct	14262 Jan 23 02:59	0°♄07'52	
asc. node	14261 Feb 13 15:36	18°♄58'57		asc. node	14262 Jan 31 13:00	3°♄39'53	
morning max el	14261 Feb 18 21:35	22°♄31'29	18°32'55	morning max el	14262 Feb 01 19:39	4°♄49'25	19°28'14
	14261 Feb 24 18:23	0°♄			14262 Feb 17 16:12	0°♄	
morning set	14261 Mar 06 20:32	18°♄04'55		morning set	14262 Feb 18 22:59	2°♄33'34	
	14261 Mar 13 01:31	0°♄					
superior conj	14261 Mar 15 20:17	5°♄13'06	0°20'43	superior conj	14262 Feb 27 00:46	18°♄40'32	0°49'35
minimum elong	14261 Mar 15 21:42	5°♄19'37	0°20'29	minimum elong	14262 Feb 27 03:19	18°♄53'02	0°49'30
desc. node	14261 Mar 18 09:35	9°♄54'15			14262 Mar 04 23:55	0°♄	
max. Earth dist.	14261 Mar 23 05:54	18°♄29'54	1.40262 AU	desc. node	14262 Mar 05 06:06	0°♄28'21	
				max. Earth dist.	14262 Mar 05 12:30	0°♄57'43	1.37993 AU

evening rise	14262 Mar 09 05:28	7° $\Upsilon$ 36'16		desc. node	14263 Feb 20 02:36	20° $\Upsilon$ 57'33	
	14262 Mar 22 23:36	0° $\Upsilon$			14263 Feb 25 04:16	0° $\Upsilon$	
evening max el	14262 Apr 13 15:09	27° $\Upsilon$ 59'36	25°02'53		14263 Mar 16 23:08	0° $\Upsilon$	
	14262 Apr 15 18:42	0° $\Pi$		evening max el	14263 Mar 27 04:39	11° $\Upsilon$ 49'32	26°11'54
retrograde	14262 Apr 25 13:57	4° $\Pi$ 56'31		retrograde	14263 Apr 08 23:52	19° $\Upsilon$ 08'08	
asc. node	14262 Apr 29 09:28	3° $\Pi$ 54'24		evening set	14263 Apr 15 04:52	16° $\Upsilon$ 36'56	
evening set	14262 May 01 08:11	2° $\Pi$ 31'50		asc. node	14263 Apr 16 06:51	15° $\Upsilon$ 38'58	
	14262 May 03 19:44	30° $\Upsilon$ 8		min. Earth dist.	14263 Apr 19 08:18	12° $\Upsilon$ 16'10	0.67056 AU
min. Earth dist.	14262 May 05 18:04	27° $\Upsilon$ 35'45	0.68153 AU	inferior conj	14263 Apr 21 01:45	10° $\Upsilon$ 08'14	1°26'22
inferior conj	14262 May 06 22:52	26° $\Upsilon$ 01'14	2°08'15	minimum elong	14263 Apr 20 23:53	10° $\Upsilon$ 14'03	1°25'08
minimum elong	14262 May 06 20:42	26° $\Upsilon$ 08'20	2°06'50	morning rise	14263 Apr 26 19:43	4° $\Upsilon$ 23'33	
morning rise	14262 May 12 09:31	20° $\Upsilon$ 06'02		direct	14263 Apr 30 00:34	3° $\Upsilon$ 25'30	
direct	14262 May 16 01:18	18° $\Upsilon$ 49'13		morning max el	14263 May 06 14:10	6° $\Upsilon$ 55'51	18°35'37
morning max el	14262 May 23 04:20	22° $\Upsilon$ 44'07	19°25'07	desc. node	14263 May 19 04:45	23° $\Upsilon$ 55'55	
	14262 May 29 07:33	0° $\Pi$			14263 May 23 02:40	0° $\Pi$	
desc. node	14262 Jun 01 07:55	4° $\Pi$ 09'41		morning set	14263 May 27 19:44	7° $\Pi$ 22'43	
greatest brilliancy	14262 Jun 04 19:58	9° $\Pi$ 14'05	-0.7m		14263 Jun 11 07:00	0° $\Upsilon$	
morning set	14262 Jun 17 03:31	27° $\Pi$ 53'00					
	14262 Jun 18 12:32	0° $\Upsilon$		superior conj	14263 Jun 12 20:45	2° $\Upsilon$ 27'17	-2°10'45
max. Earth dist.	14262 Jun 29 13:51	17° $\Upsilon$ 11'58	1.45179 AU	minimum elong	14263 Jun 12 16:33	2° $\Upsilon$ 10'54	2°11'40
				max. Earth dist.	14263 Jun 12 08:37	1° $\Upsilon$ 39'59	1.45836 AU
superior conj	14262 Jul 03 10:18	23° $\Upsilon$ 17'51	-2°11'35	evening rise	14263 Jun 28 11:54	27° $\Upsilon$ 03'02	
minimum elong	14262 Jul 03 13:47	23° $\Upsilon$ 31'42	2°12'29		14263 Jun 30 08:27	0° $\Omega$	
	14262 Jul 07 14:42	0° $\Omega$		greatest brilliancy	14263 Jul 06 06:59	9° $\Omega$ 24'17	-0.8m
evening rise	14262 Jul 17 15:54	16° $\Omega$ 28'20		asc. node	14263 Jul 13 05:23	19° $\Omega$ 55'38	
	14262 Jul 25 20:41	0° $\Pi$		evening max el	14263 Jul 19 18:41	28° $\Omega$ 06'47	18°41'05
asc. node	14262 Jul 26 08:39	0° $\Pi$ 48'07			14263 Jul 21 23:01	0° $\Pi$	
evening max el	14262 Aug 05 06:17	14° $\Pi$ 25'03	18°12'49	retrograde	14263 Jul 26 08:28	1° $\Pi$ 41'03	
retrograde	14262 Aug 11 14:50	17° $\Pi$ 46'43		evening set	14263 Jul 29 14:42	0° $\Pi$ 40'22	
evening set	14262 Aug 14 12:11	17° $\Pi$ 01'43			14263 Jul 30 13:47	30° $\Upsilon$ 8	
inferior conj	14262 Aug 20 12:30	11° $\Pi$ 37'40	2°07'18	inferior conj	14263 Aug 04 05:46	25° $\Omega$ 01'18	2°43'24
minimum elong	14262 Aug 20 14:57	11° $\Pi$ 30'44	2°06'11	minimum elong	14263 Aug 04 07:47	24° $\Omega$ 55'04	2°42'19
min. Earth dist.	14262 Aug 23 00:20	8° $\Pi$ 49'14	0.63902 AU	min. Earth dist.	14263 Aug 06 03:37	22° $\Omega$ 39'55	0.65786 AU
morning rise	14262 Aug 26 16:02	5° $\Pi$ 20'10		morning rise	14263 Aug 09 23:52	18° $\Omega$ 37'02	
desc. node	14262 Aug 28 05:34	4° $\Pi$ 15'27		desc. node	14263 Aug 15 03:03	16° $\Omega$ 03'12	
direct	14262 Sep 02 06:45	2° $\Pi$ 46'25		direct	14263 Aug 16 08:31	15° $\Omega$ 57'37	
morning max el	14262 Sep 16 02:33	10° $\Pi$ 46'20	27°38'54	morning max el	14263 Aug 29 13:52	23° $\Omega$ 47'02	26°47'52
	14262 Oct 01 06:51	0° $\Upsilon$			14263 Sep 04 03:23	0° $\Pi$	
	14262 Oct 18 21:19	0° $\Pi$			14263 Sep 24 15:41	0° $\Upsilon$	
morning set	14262 Oct 21 01:48	4° $\Pi$ 17'22		morning set	14263 Oct 04 08:05	17° $\Upsilon$ 22'20	
asc. node	14262 Oct 22 10:43	7° $\Pi$ 02'42		max. Earth dist.	14263 Oct 08 10:44	25° $\Upsilon$ 24'25	1.33998 AU
max. Earth dist.	14262 Oct 25 20:55	14° $\Pi$ 07'43	1.32514 AU	asc. node	14263 Oct 09 07:21	27° $\Upsilon$ 08'03	
					14263 Oct 10 17:07	0° $\Pi$	
superior conj	14262 Oct 29 00:28	20° $\Pi$ 51'21	0°58'40				
minimum elong	14262 Oct 28 22:12	20° $\Pi$ 39'05	0°59'02	superior conj	14263 Oct 13 01:06	4° $\Pi$ 49'59	0°34'30
	14262 Nov 02 05:17	0° $\Upsilon$		minimum elong	14263 Oct 12 23:23	4° $\Pi$ 41'02	0°34'42
evening rise	14262 Nov 04 22:25	5° $\Upsilon$ 52'40		evening rise	14263 Oct 20 08:26	20° $\Pi$ 18'38	
	14262 Nov 17 13:38	0° $\Upsilon$			14263 Oct 25 01:51	0° $\Upsilon$	
desc. node	14262 Nov 24 02:05	9° $\Upsilon$ 07'48		evening max el	14263 Nov 09 07:19	23° $\Upsilon$ 10'46	21°27'33
evening max el	14262 Nov 27 17:06	13° $\Upsilon$ 04'05	23°06'23	desc. node	14263 Nov 10 23:18	24° $\Upsilon$ 42'47	
retrograde	14262 Dec 10 22:20	19° $\Upsilon$ 37'56		retrograde	14263 Nov 21 10:10	29° $\Upsilon$ 11'21	
evening set	14262 Dec 15 02:57	18° $\Upsilon$ 59'44		evening set	14263 Nov 24 06:45	28° $\Upsilon$ 52'37	
min. Earth dist.	14262 Dec 22 02:39	15° $\Upsilon$ 45'00	0.54964 AU	inferior conj	14263 Dec 03 02:23	24° $\Upsilon$ 59'59	-5°40'22
inferior conj	14262 Dec 23 10:21	14° $\Upsilon$ 59'28	-5°57'18	minimum elong	14263 Dec 02 19:29	25° $\Upsilon$ 09'41	5°38'21
minimum elong	14262 Dec 23 12:19	14° $\Upsilon$ 56'39	5°56'11	min. Earth dist.	14263 Dec 03 08:37	24° $\Upsilon$ 51'14	0.54467 AU
morning rise	14262 Dec 31 23:13	11° $\Upsilon$ 09'42		morning rise	14263 Dec 11 08:54	21° $\Upsilon$ 11'00	
direct	14263 Jan 03 21:15	10° $\Upsilon$ 49'38		direct	14263 Dec 15 05:10	20° $\Upsilon$ 38'58	
morning max el	14263 Jan 15 03:45	16° $\Upsilon$ 13'33	20°46'46	morning max el	14263 Dec 27 21:57	26° $\Upsilon$ 46'00	22°25'38
asc. node	14263 Jan 18 10:21	19° $\Upsilon$ 47'40			14263 Dec 30 23:43	0° $\Upsilon$	
	14263 Jan 25 08:14	0° $\approx$		asc. node	14264 Jan 05 07:35	7° $\Upsilon$ 04'50	
morning set	14263 Feb 03 06:50	17° $\approx$ 13'54			14264 Jan 17 19:04	0° $\approx$	
	14263 Feb 09 10:10	0° $\Upsilon$		morning set	14264 Jan 18 17:42	1° $\approx$ 59'10	
superior conj	14263 Feb 10 17:15	2° $\Upsilon$ 39'43	1°11'36	superior conj	14264 Jan 25 18:17	17° $\approx$ 00'44	1°26'48
minimum elong	14263 Feb 10 19:51	2° $\Upsilon$ 53'00	1°11'51	minimum elong	14264 Jan 25 20:14	17° $\approx$ 11'09	1°27'25
max. Earth dist.	14263 Feb 15 20:55	12° $\Upsilon$ 56'37	1.35827 AU	max. Earth dist.	14264 Jan 29 11:24	24° $\approx$ 46'36	1.33972 AU
evening rise	14263 Feb 19 18:32	20° $\Upsilon$ 20'16			14264 Feb 01 01:23	0° $\Upsilon$	



evening rise	14264 Feb 02 22:12	3° $\text{H}$ 40'19		superior conj	14265 Jan 09 00:59	1° $\approx$ 34'49	1°35'30
desc. node	14264 Feb 06 23:10	11° $\text{H}$ 17'57		minimum elong	14265 Jan 09 01:58	1° $\approx$ 40'10	1°36'24
	14264 Feb 18 00:27	0° $\text{Y}$		max. Earth dist.	14265 Jan 11 09:43	6° $\approx$ 42'19	1.32544 AU
evening max el	14264 Mar 08 18:15	25° $\text{Y}$ 28'30	27°03'54	evening rise	14265 Jan 16 13:06	17° $\approx$ 27'10	
	14264 Mar 14 04:48	0° $\text{B}$			14265 Jan 23 01:18	0° $\text{H}$	
retrograde	14264 Mar 22 04:04	2° $\text{B}$ 56'55		desc. node	14265 Jan 23 19:49	1° $\text{H}$ 24'10	
evening set	14264 Mar 28 17:57	0° $\text{B}$ 25'00			14265 Feb 11 10:33	0° $\text{Y}$	
	14264 Mar 29 06:22	30° $\text{R}$ $\text{Y}$		evening max el	14265 Feb 19 06:53	8° $\text{Y}$ 45'35	27°31'40
min. Earth dist.	14264 Apr 01 16:20	26° $\text{Y}$ 37'25	0.65552 AU	retrograde	14265 Mar 05 01:26	16° $\text{Y}$ 13'27	
asc. node	14264 Apr 02 04:16	26° $\text{Y}$ 04'00		evening set	14265 Mar 11 21:08	13° $\text{Y}$ 47'46	
inferior conj	14264 Apr 03 22:06	24° $\text{Y}$ 04'32	0°32'53	min. Earth dist.	14265 Mar 15 16:11	10° $\text{Y}$ 30'00	0.63701 AU
minimum elong	14264 Apr 03 21:14	24° $\text{Y}$ 07'02	0°32'13	inferior conj	14265 Mar 18 09:11	7° $\text{Y}$ 43'12	-0°32'43
morning rise	14264 Apr 10 02:04	18° $\text{Y}$ 32'05		minimum elong	14265 Mar 18 10:13	7° $\text{Y}$ 40'32	0°32'20
direct	14264 Apr 12 21:06	17° $\text{Y}$ 50'02		asc. node	14265 Mar 20 01:44	6° $\text{Y}$ 01'24	
morning max el	14264 Apr 19 05:11	21° $\text{Y}$ 08'27	18°02'52	morning rise	14265 Mar 25 01:39	2° $\text{Y}$ 25'25	
	14264 Apr 26 04:27	0° $\text{B}$		direct	14265 Mar 27 12:18	1° $\text{Y}$ 55'54	
desc. node	14264 May 05 01:29	14° $\text{B}$ 01'50		morning max el	14265 Apr 02 22:43	5° $\text{Y}$ 13'47	17°47'27
morning set	14264 May 07 14:47	18° $\text{B}$ 11'21			14265 Apr 19 08:41	0° $\text{B}$	
	14264 May 14 21:58	0° $\text{II}$		morning set	14265 Apr 19 12:59	0° $\text{B}$ 18'23	
				desc. node	14265 Apr 21 22:08	4° $\text{B}$ 21'39	
superior conj	14264 May 22 07:05	11° $\text{II}$ 43'24	-1°50'12				
minimum elong	14264 May 21 22:13	11° $\text{II}$ 08'29	1°50'25	superior conj	14265 May 02 09:20	21° $\text{B}$ 46'58	-1°15'57
max. Earth dist.	14264 May 25 04:27	16° $\text{II}$ 15'30	1.45749 AU	minimum elong	14265 May 02 01:52	21° $\text{B}$ 16'37	1°15'45
	14264 Jun 03 00:38	0° $\text{B}$			14265 May 07 12:05	0° $\text{II}$	
evening rise	14264 Jun 07 09:35	6° $\text{B}$ 45'05		max. Earth dist.	14265 May 07 23:28	0° $\text{II}$ 45'11	1.44931 AU
greatest brilliancy	14264 Jun 20 07:57	26° $\text{B}$ 26'54	-0.7m	evening rise	14265 May 17 20:45	16° $\text{II}$ 08'41	
	14264 Jun 22 18:12	0° $\text{Q}$			14265 May 27 00:54	0° $\text{B}$	
asc. node	14264 Jun 29 02:12	8° $\text{Q}$ 32'32		evening max el	14265 Jun 15 05:11	25° $\text{B}$ 45'15	20°26'00
evening max el	14264 Jul 02 02:44	11° $\text{Q}$ 54'38	19°26'04	asc. node	14265 Jun 15 23:08	26° $\text{B}$ 28'51	
retrograde	14264 Jul 09 05:54	15° $\text{Q}$ 53'48			14265 Jun 21 05:35	0° $\text{Q}$	
evening set	14264 Jul 12 21:35	14° $\text{Q}$ 36'15		retrograde	14265 Jun 23 04:45	0° $\text{Q}$ 19'56	
inferior conj	14264 Jul 18 06:46	8° $\text{Q}$ 43'38	3°03'52		14265 Jun 25 02:03	30° $\text{R}$ $\text{B}$	
minimum elong	14264 Jul 18 07:55	8° $\text{Q}$ 39'52	3°02'51	evening set	14265 Jun 27 06:36	28° $\text{B}$ 45'09	
min. Earth dist.	14264 Jul 19 14:16	6° $\text{Q}$ 59'57	0.67284 AU	inferior conj	14265 Jul 02 12:53	22° $\text{B}$ 40'16	3°11'09
morning rise	14264 Jul 23 17:42	2° $\text{Q}$ 18'47		minimum elong	14265 Jul 02 13:01	22° $\text{B}$ 39'47	3°10'09
	14264 Jul 27 16:07	30° $\text{R}$ $\text{B}$		min. Earth dist.	14265 Jul 03 06:23	21° $\text{B}$ 40'16	0.68329 AU
direct	14264 Jul 29 17:01	29° $\text{B}$ 42'44		morning rise	14265 Jul 07 19:08	16° $\text{B}$ 18'40	
	14264 Jul 31 20:14	0° $\text{Q}$		direct	14265 Jul 13 06:58	13° $\text{B}$ 53'47	
desc. node	14264 Aug 01 00:29	0° $\text{Q}$ 02'54		desc. node	14265 Jul 18 21:51	15° $\text{B}$ 52'35	
morning max el	14264 Aug 11 00:44	7° $\text{Q}$ 05'30	25°34'16	morning max el	14265 Jul 24 11:03	20° $\text{B}$ 34'49	24°08'02
	14264 Aug 28 20:53	0° $\text{M}$			14265 Aug 01 13:09	0° $\text{Q}$	
morning set	14264 Sep 15 23:46	29° $\text{M}$ 46'13			14265 Aug 22 01:32	0° $\text{M}$	
	14264 Sep 16 02:49	0° $\text{A}$		morning set	14265 Aug 28 20:36	11° $\text{M}$ 19'19	
max. Earth dist.	14264 Sep 19 14:34	6° $\text{A}$ 27'46	1.35963 AU	max. Earth dist.	14265 Sep 01 13:00	17° $\text{M}$ 46'12	1.38258 AU
asc. node	14264 Sep 25 03:53	17° $\text{A}$ 15'30			14265 Sep 08 04:34	0° $\text{A}$	
superior conj	14264 Sep 25 17:04	18° $\text{A}$ 21'29	0°05'07	superior conj	14265 Sep 08 21:02	1° $\text{A}$ 18'18	-0°28'28
minimum elong	14264 Sep 25 16:45	18° $\text{A}$ 19'53	0°05'17	minimum elong	14265 Sep 08 23:01	1° $\text{A}$ 27'46	0°28'12
behind sun begin	14264 Sep 25 10:48	17° $\text{A}$ 50'06		asc. node	14265 Sep 12 00:25	7° $\text{A}$ 22'02	
behind sun end	14264 Sep 25 22:42	18° $\text{A}$ 49'44		evening rise	14265 Sep 17 16:23	18° $\text{A}$ 32'10	
	14264 Oct 01 10:01	0° $\text{M}$			14265 Sep 23 15:27	0° $\text{M}$	
evening rise	14264 Oct 03 15:14	4° $\text{M}$ 33'42		evening max el	14265 Oct 04 03:05	15° $\text{M}$ 26'45	19°03'22
	14264 Oct 18 00:38	0° $\text{A}$		retrograde	14265 Oct 13 00:54	19° $\text{M}$ 55'10	
evening max el	14264 Oct 21 10:07	3° $\text{A}$ 54'21	20°04'47	evening set	14265 Oct 14 21:45	19° $\text{M}$ 44'10	
desc. node	14264 Oct 27 20:38	8° $\text{A}$ 22'14		desc. node	14265 Oct 14 18:02	19° $\text{M}$ 45'53	
retrograde	14264 Oct 31 22:44	9° $\text{A}$ 08'47		inferior conj	14265 Oct 23 07:27	15° $\text{M}$ 29'32	-2°42'09
evening set	14264 Nov 02 23:58	8° $\text{A}$ 57'45		minimum elong	14265 Oct 23 00:37	15° $\text{M}$ 41'16	2°38'52
inferior conj	14264 Nov 11 21:07	4° $\text{A}$ 59'45	-4°26'39	min. Earth dist.	14265 Oct 26 03:26	13° $\text{M}$ 33'05	0.56225 AU
minimum elong	14264 Nov 11 11:03	5° $\text{A}$ 14'51	4°22'49	morning rise	14265 Oct 31 00:43	10° $\text{M}$ 48'11	
min. Earth dist.	14264 Nov 13 16:02	3° $\text{A}$ 55'18	0.54915 AU	direct	14265 Nov 05 15:47	9° $\text{M}$ 34'19	
morning rise	14264 Nov 19 21:04	0° $\text{A}$ 52'03		morning max el	14265 Nov 19 18:39	16° $\text{M}$ 47'12	25°56'45
direct	14264 Nov 24 16:30	0° $\text{A}$ 01'40			14265 Nov 30 13:59	0° $\text{A}$	
morning max el	14264 Dec 08 07:52	6° $\text{A}$ 45'35	24°14'46	asc. node	14265 Dec 09 01:46	14° $\text{A}$ 03'19	
asc. node	14264 Dec 22 04:43	25° $\text{A}$ 14'25			14265 Dec 17 01:39	0° $\text{B}$	
	14264 Dec 24 21:27	0° $\text{B}$		morning set	14265 Dec 17 16:50	1° $\text{B}$ 21'20	
morning set	14265 Jan 02 05:37	16° $\text{B}$ 43'09					
	14265 Jan 08 07:38	0° $\approx$		superior conj	14265 Dec 24 11:06	16° $\text{B}$ 15'31	1°38'00

minimum elong	14265 Dec 24 11:00	16° $\text{♁}$ 14'56	1°39'02	superior conj	14266 Dec 08 22:39	0° $\text{♁}$ 57'06	1°34'31
max. Earth dist.	14265 Dec 25 14:32	18° $\text{♁}$ 47'39	1.31597 AU	minimum elong	14266 Dec 08 21:33	0° $\text{♁}$ 50'54	1°35'30
	14265 Dec 30 18:29	0° $\text{♁}$			14266 Dec 08 12:27	0° $\text{♁}$	
evening rise	14265 Dec 31 12:20	1° $\text{♁}$ 33'43		max. Earth dist.	14266 Dec 08 22:35	0° $\text{♁}$ 56'43	1.31157 AU
desc. node	14266 Jan 10 16:31	21° $\text{♁}$ 10'08		evening rise	14266 Dec 15 17:28	15° $\text{♁}$ 53'45	
	14266 Jan 15 23:35	0° $\text{♁}$			14266 Dec 22 16:46	0° $\text{♁}$	
evening max el	14266 Feb 01 16:15	21° $\text{♁}$ 27'37	27°28'45	desc. node	14266 Dec 28 13:20	10° $\text{♁}$ 27'46	
retrograde	14266 Feb 15 14:44	28° $\text{♁}$ 48'28			14267 Jan 11 12:44	0° $\text{♁}$	
evening set	14266 Feb 22 11:38	26° $\text{♁}$ 36'22		evening max el	14267 Jan 14 19:30	3° $\text{♁}$ 22'30	26°51'21
min. Earth dist.	14266 Feb 26 06:09	23° $\text{♁}$ 42'49	0.61604 AU	retrograde	14267 Jan 28 18:52	10° $\text{♁}$ 34'05	
inferior conj	14266 Mar 01 07:46	20° $\text{♁}$ 55'40	-1°49'46	evening set	14267 Feb 04 10:07	8° $\text{♁}$ 43'00	
minimum elong	14266 Mar 01 11:38	20° $\text{♁}$ 46'50	1°47'56	min. Earth dist.	14267 Feb 08 09:29	6° $\text{♁}$ 04'13	0.59402 AU
asc. node	14266 Mar 06 23:15	16° $\text{♁}$ 36'40		inferior conj	14267 Feb 11 14:12	3° $\text{♁}$ 32'25	-3°14'34
morning rise	14266 Mar 08 14:37	15° $\text{♁}$ 55'37		minimum elong	14267 Feb 11 21:20	3° $\text{♁}$ 18'16	3°11'26
direct	14266 Mar 10 18:48	15° $\text{♁}$ 35'03			14267 Feb 16 16:11	30° $\text{♁}$	
morning max el	14266 Mar 17 15:41	19° $\text{♁}$ 03'00	17°49'52	morning rise	14267 Feb 19 11:46	28° $\text{♁}$ 53'09	
	14266 Mar 25 16:07	0° $\text{♁}$		direct	14267 Feb 21 12:19	28° $\text{♁}$ 38'03	
morning set	14266 Apr 02 08:41	13° $\text{♁}$ 25'38		asc. node	14267 Feb 21 20:44	28° $\text{♁}$ 38'31	
desc. node	14266 Apr 08 18:42	24° $\text{♁}$ 50'18			14267 Feb 26 02:29	0° $\text{♁}$	
	14266 Apr 11 17:57	0° $\text{♁}$		morning max el	14267 Mar 01 04:36	2° $\text{♁}$ 26'38	18°11'20
				morning set	14267 Mar 16 19:57	27° $\text{♁}$ 15'28	
superior conj	14266 Apr 13 11:02	2° $\text{♁}$ 56'00	-0°36'36		14267 Mar 18 06:58	0° $\text{♁}$	
minimum elong	14266 Apr 13 07:37	2° $\text{♁}$ 41'26	0°36'33	superior conj	14267 Mar 26 11:48	15° $\text{♁}$ 08'49	0°01'10
max. Earth dist.	14266 Apr 20 15:28	14° $\text{♁}$ 53'13	1.43470 AU	minimum elong	14267 Mar 26 11:53	15° $\text{♁}$ 09'10	0°00'58
evening rise	14266 Apr 27 13:29	25° $\text{♁}$ 53'54		behind sun begin	14267 Mar 26 04:20	14° $\text{♁}$ 35'12	
	14266 Apr 30 05:02	0° $\text{♁}$		behind sun end	14267 Mar 26 19:26	15° $\text{♁}$ 43'02	
	14266 May 20 23:10	0° $\text{♁}$		desc. node	14267 Mar 26 15:15	15° $\text{♁}$ 24'19	
evening max el	14266 May 29 01:52	9° $\text{♁}$ 35'54	21°37'57	max. Earth dist.	14267 Apr 03 02:39	28° $\text{♁}$ 24'57	1.41522 AU
asc. node	14266 Jun 02 20:12	13° $\text{♁}$ 30'38			14267 Apr 04 01:17	0° $\text{♁}$	
retrograde	14266 Jun 07 03:13	14° $\text{♁}$ 53'23		evening rise	14267 Apr 07 23:30	6° $\text{♁}$ 27'44	
evening set	14266 Jun 11 15:52	13° $\text{♁}$ 01'56			14267 Apr 23 08:55	0° $\text{♁}$	
inferior conj	14266 Jun 16 21:50	6° $\text{♁}$ 46'12	3°07'00	evening max el	14267 May 11 18:03	23° $\text{♁}$ 27'00	22°57'20
minimum elong	14266 Jun 16 21:01	6° $\text{♁}$ 49'03	3°05'54	asc. node	14267 May 20 17:23	29° $\text{♁}$ 21'29	
min. Earth dist.	14266 Jun 17 01:52	6° $\text{♁}$ 32'05	0.68893 AU	retrograde	14267 May 21 23:44	29° $\text{♁}$ 28'41	
morning rise	14266 Jun 22 01:58	0° $\text{♁}$ 30'16		evening set	14267 May 26 23:44	27° $\text{♁}$ 22'10	
	14266 Jun 22 16:44	30° $\text{♁}$		inferior conj	14267 Jun 01 07:36	20° $\text{♁}$ 57'49	2°52'21
direct	14266 Jun 27 01:16	28° $\text{♁}$ 21'58		minimum elong	14267 Jun 01 06:00	21° $\text{♁}$ 03'21	2°51'04
	14266 Jul 01 21:34	0° $\text{♁}$		min. Earth dist.	14267 May 31 22:43	21° $\text{♁}$ 28'38	0.68975 AU
desc. node	14266 Jul 05 19:08	3° $\text{♁}$ 05'32		morning rise	14267 Jun 06 12:11	14° $\text{♁}$ 48'52	
morning max el	14266 Jul 06 22:39	4° $\text{♁}$ 12'26	22°38'36	direct	14267 Jun 10 22:47	13° $\text{♁}$ 00'11	
	14266 Jul 26 16:41	0° $\text{♁}$		morning max el	14267 Jun 19 14:26	17° $\text{♁}$ 59'37	21°14'06
morning set	14266 Aug 09 18:20	21° $\text{♁}$ 51'35		desc. node	14267 Jun 22 16:18	21° $\text{♁}$ 19'50	
max. Earth dist.	14266 Aug 14 12:39	29° $\text{♁}$ 47'13	1.40625 AU		14267 Jun 29 11:26	0° $\text{♁}$	
	14266 Aug 14 15:40	0° $\text{♁}$			14267 Jul 19 18:55	0° $\text{♁}$	
superior conj	14266 Aug 22 08:51	13° $\text{♁}$ 30'27	-1°04'01	morning set	14267 Jul 20 15:37	1° $\text{♁}$ 20'57	
minimum elong	14266 Aug 22 13:44	13° $\text{♁}$ 52'32	1°03'40	max. Earth dist.	14267 Jul 27 17:35	12° $\text{♁}$ 40'29	1.42777 AU
asc. node	14266 Aug 29 20:58	27° $\text{♁}$ 23'47					
	14266 Aug 31 06:04	0° $\text{♁}$		superior conj	14267 Aug 04 00:02	24° $\text{♁}$ 48'09	-1°37'40
evening rise	14266 Sep 01 08:41	2° $\text{♁}$ 05'50		minimum elong	14267 Aug 04 07:14	25° $\text{♁}$ 18'53	1°37'32
evening max el	14266 Sep 17 07:15	27° $\text{♁}$ 44'08	18°23'45		14267 Aug 07 00:25	0° $\text{♁}$	
	14266 Sep 20 00:45	0° $\text{♁}$		evening rise	14267 Aug 15 12:01	15° $\text{♁}$ 04'05	
retrograde	14266 Sep 24 22:29	1° $\text{♁}$ 36'25		asc. node	14267 Aug 16 17:33	17° $\text{♁}$ 16'56	
evening set	14266 Sep 26 23:16	1° $\text{♁}$ 20'40			14267 Aug 24 00:18	0° $\text{♁}$	
	14266 Sep 30 03:04	30° $\text{♁}$		evening max el	14267 Aug 31 18:29	10° $\text{♁}$ 37'26	18°04'38
desc. node	14266 Oct 01 15:31	29° $\text{♁}$ 01'48		retrograde	14267 Sep 07 13:46	14° $\text{♁}$ 06'51	
inferior conj	14266 Oct 04 15:19	26° $\text{♁}$ 45'06	-0°57'02	evening set	14267 Sep 09 21:48	13° $\text{♁}$ 42'21	
minimum elong	14266 Oct 04 13:08	26° $\text{♁}$ 49'29	0°55'45	inferior conj	14267 Sep 16 20:07	8° $\text{♁}$ 46'30	0°31'24
min. Earth dist.	14266 Oct 07 21:38	24° $\text{♁}$ 08'19	0.58154 AU	minimum elong	14267 Sep 16 21:06	8° $\text{♁}$ 44'12	0°31'05
morning rise	14266 Oct 11 23:32	21° $\text{♁}$ 26'22		desc. node	14267 Sep 18 13:04	7° $\text{♁}$ 10'15	
direct	14266 Oct 18 05:02	19° $\text{♁}$ 45'39		min. Earth dist.	14267 Sep 20 00:47	5° $\text{♁}$ 48'30	0.60400 AU
morning max el	14266 Nov 01 12:28	27° $\text{♁}$ 21'53	27°13'30	morning rise	14267 Sep 23 17:16	2° $\text{♁}$ 56'53	
	14266 Nov 04 01:43	0° $\text{♁}$		direct	14267 Sep 30 07:17	0° $\text{♁}$ 50'09	
	14266 Nov 24 04:21	0° $\text{♁}$		morning max el	14267 Oct 14 14:05	8° $\text{♁}$ 43'19	27°53'35
asc. node	14266 Nov 25 22:43	3° $\text{♁}$ 21'07			14267 Oct 30 22:07	0° $\text{♁}$	
morning set	14266 Dec 02 01:39	15° $\text{♁}$ 49'04		asc. node	14267 Nov 12 19:33	22° $\text{♁}$ 59'24	
				morning set	14267 Nov 16 06:04	0° $\text{♁}$ 00'47	

	14267 Nov 16 05:55	0°♊		max. Earth dist.	14268 Nov 04 09:09	24°♎48'28	1.31893 AU
max. Earth dist.	14267 Nov 22 06:03	12°♊59'46	1.31249 AU				
superior conj	14267 Nov 23 09:43	15°♊33'32	1°25'10	superior conj	14268 Nov 06 18:27	0°♊00'12	1°10'01
minimum elong	14267 Nov 23 07:50	15°♊23'02	1°25'58	minimum elong	14268 Nov 06 16:10	29°♎47'42	1°10'33
	14267 Nov 29 22:25	0°♊			14268 Nov 06 18:25	0°♊	
evening rise	14267 Nov 30 02:21	0°♊21'17		evening rise	14268 Nov 13 13:10	14°♊52'17	
desc. node	14267 Dec 15 10:17	29°♊05'30		desc. node	14268 Nov 20 23:19	0°♊	
	14267 Dec 16 00:31	0°♊		evening max el	14268 Dec 01 07:19	16°♊48'42	
evening max el	14267 Dec 27 14:28	14°♊23'38	25°40'40		14268 Dec 08 02:06	24°♊40'16	24°05'43
retrograde	14268 Jan 10 12:13	21°♊24'34		retrograde	14268 Dec 15 12:31	0°♊	
evening set	14268 Jan 16 12:26	20°♊01'05		evening set	14268 Dec 21 16:31	1°♊26'10	
min. Earth dist.	14268 Jan 21 03:07	17°♊22'36	0.57313 AU		14268 Dec 26 15:18	0°♊32'43	
inferior conj	14268 Jan 24 01:00	15°♊22'37	-4°37'39	min. Earth dist.	14269 Jan 01 13:34	30°♎♊	
minimum elong	14268 Jan 24 10:00	15°♊07'07	4°34'23	inferior conj	14269 Jan 03 14:54	27°♊36'32	0.55633 AU
morning rise	14268 Feb 01 10:23	11°♊05'22		minimum elong	14269 Jan 03 21:12	26°♊21'53	-5°40'20
direct	14268 Feb 03 12:20	10°♊52'05		morning rise	14269 Jan 12 04:57	26°♊12'19	5°38'29
asc. node	14268 Feb 08 18:12	12°♊22'17		direct	14269 Jan 14 16:48	22°♊23'51	
morning max el	14268 Feb 12 09:19	15°♊11'59	18°53'42	morning max el	14269 Jan 25 01:43	22°♊07'51	
	14268 Feb 22 16:12	0°♊		asc. node	14269 Jan 25 15:33	27°♊07'34	19°58'48
morning set	14268 Feb 28 17:54	11°♊32'40		morning set	14269 Jan 27 17:24	27°♊41'50	
					14269 Jan 27 17:24	0°♊	
superior conj	14268 Mar 08 07:28	28°♊12'29	0°33'45		14269 Feb 11 22:56	26°♊06'42	
minimum elong	14268 Mar 08 09:32	28°♊22'15	0°33'33		14269 Feb 13 20:39	0°♊	
	14268 Mar 09 06:14	0°♊		superior conj	14269 Feb 19 17:28	11°♊54'15	0°59'45
desc. node	14268 Mar 12 11:43	5°♊59'01		minimum elong	14269 Feb 19 20:10	12°♊07'39	0°59'48
max. Earth dist.	14268 Mar 15 09:33	11°♊12'46	1.39296 AU	max. Earth dist.	14269 Feb 25 15:58	23°♊24'21	1.37046 AU
evening rise	14268 Mar 19 06:40	17°♊56'54		desc. node	14269 Feb 27 08:13	26°♊31'19	
	14268 Mar 26 14:54	0°♊		evening rise	14269 Mar 01 09:45	0°♊16'20	
	14268 Apr 16 18:27	0°♊			14269 Mar 01 06:06	0°♊	
evening max el	14268 Apr 23 07:58	7°♊19'52	24°18'20		14269 Mar 19 20:20	0°♊	
retrograde	14268 May 04 17:03	14°♊00'00		evening max el	14269 Apr 05 21:31	21°♊13'03	25°33'55
asc. node	14268 May 06 14:40	13°♊44'08		retrograde	14269 Apr 18 05:54	28°♊20'45	
evening set	14268 May 10 04:34	11°♊41'04		asc. node	14269 Apr 23 12:00	26°♊26'10	
min. Earth dist.	14268 May 14 18:45	6°♊23'58	0.68583 AU	evening set	14269 Apr 24 04:43	25°♊52'59	
inferior conj	14268 May 15 16:16	5°♊11'21	2°27'25	min. Earth dist.	14269 Apr 28 11:47	21°♊11'49	0.67737 AU
minimum elong	14268 May 15 14:12	5°♊18'21	2°26'00	inferior conj	14269 Apr 29 21:53	19°♊22'25	1°51'54
	14268 May 20 00:24	30°♎♊		minimum elong	14269 Apr 29 19:46	19°♊29'13	1°50'31
morning rise	14268 May 20 23:56	29°♊10'37		morning rise	14269 May 05 11:17	13°♊31'12	
direct	14268 May 24 22:19	27°♊42'21		direct	14269 May 08 22:17	12°♊22'35	
	14268 May 30 07:47	0°♊		morning max el	14269 May 15 18:39	16°♊05'37	19°01'57
morning max el	14268 Jun 01 12:50	1°♊57'51	20°00'40	desc. node	14269 May 26 10:13	29°♊50'58	
desc. node	14268 Jun 08 13:19	10°♊19'03			14269 May 26 12:41	0°♊	
	14268 Jun 22 03:59	0°♊		greatest brilliancy	14269 May 28 22:28	3°♊35'08	-0.7m
morning set	14268 Jun 28 19:45	10°♊08'21		morning set	14269 Jun 08 01:38	19°♊06'19	
max. Earth dist.	14268 Jul 09 04:55	26°♊21'16	1.44476 AU		14269 Jun 15 02:20	0°♊	
	14268 Jul 11 11:43	0°♊		max. Earth dist.	14269 Jun 21 21:44	10°♊37'10	1.45552 AU
superior conj	14268 Jul 14 15:42	5°♊06'39	-2°03'18	superior conj	14269 Jun 24 09:59	14°♊33'38	-2°13'44
minimum elong	14268 Jul 14 22:03	5°♊32'30	2°03'50	minimum elong	14269 Jun 24 10:21	14°♊35'04	2°14'47
evening rise	14268 Jul 27 21:21	27°♊14'31			14269 Jul 04 02:54	0°♊	
	14268 Jul 29 12:03	0°♊		evening rise	14269 Jul 09 07:41	8°♊25'11	
asc. node	14268 Aug 02 14:11	6°♊57'15		asc. node	14269 Jul 20 10:52	26°♊18'41	
evening max el	14268 Aug 14 08:52	23°♊57'07	18°04'40		14269 Jul 22 22:06	0°♊	
retrograde	14268 Aug 20 18:32	27°♊17'30		evening max el	14269 Jul 28 22:52	7°♊33'13	18°22'47
evening set	14268 Aug 23 10:56	26°♊40'47		retrograde	14269 Aug 04 08:27	10°♊58'16	
inferior conj	14268 Aug 29 18:16	21°♊26'41	1°38'13	evening set	14269 Aug 07 09:37	10°♊06'43	
minimum elong	14268 Aug 29 20:34	21°♊20'33	1°37'13	inferior conj	14269 Aug 13 05:35	4°♊36'16	2°24'42
min. Earth dist.	14268 Sep 01 13:33	18°♊29'04	0.62675 AU	minimum elong	14269 Aug 13 07:55	4°♊29'22	2°23'34
desc. node	14268 Sep 04 10:36	15°♊50'02		min. Earth dist.	14269 Aug 15 11:38	1°♊57'45	0.64753 AU
morning rise	14268 Sep 05 03:58	15°♊16'40			14269 Aug 17 07:07	30°♎♊	
direct	14268 Sep 11 20:15	12°♊49'59		morning rise	14269 Aug 19 04:53	28°♊15'17	
morning max el	14268 Sep 25 21:27	20°♊50'47	27°54'33	desc. node	14269 Aug 22 08:08	26°♊19'23	
	14268 Oct 03 19:44	0°♊		direct	14269 Aug 25 17:41	25°♊37'49	
	14268 Oct 22 23:48	0°♊			14269 Sep 04 09:52	0°♊	
asc. node	14268 Oct 29 16:16	12°♊52'16		morning max el	14269 Sep 08 07:49	3°♊34'30	27°20'26
morning set	14268 Oct 30 04:01	13°♊51'49			14269 Sep 28 06:13	0°♊	

morning set	14269 Oct 13 16:51	27° <u>♄</u> 15'02			14270 Sep 21 03:45	0° <u>♄</u>	
	14269 Oct 15 02:16	0° <u>♄</u>		morning set	14270 Sep 26 17:22	10° <u>♄</u> 03'24	
asc. node	14269 Oct 16 12:54	2° <u>♄</u> 53'59		max. Earth dist.	14270 Sep 30 14:05	17° <u>♄</u> 26'19	1.34792 AU
max. Earth dist.	14269 Oct 18 04:26	6° <u>♄</u> 16'13	1.33084 AU	asc. node	14270 Oct 03 09:29	23° <u>♄</u> 00'37	
superior conj	14269 Oct 21 22:41	14° <u>♄</u> 10'32	0°49'05	superior conj	14270 Oct 05 20:00	27° <u>♄</u> 58'27	0°22'38
minimum elong	14269 Oct 21 20:34	13° <u>♄</u> 59'12	0°49'22	minimum elong	14270 Oct 05 18:46	27° <u>♄</u> 52'07	0°22'47
evening rise	14269 Oct 28 23:59	29° <u>♄</u> 21'14			14270 Oct 06 19:33	0° <u>♄</u>	
	14269 Oct 29 07:16	0° <u>♄</u>		evening rise	14270 Oct 13 08:55	13° <u>♄</u> 43'27	
	14269 Nov 15 08:49	0° <u>♄</u>			14270 Oct 21 15:54	0° <u>♄</u>	
desc. node	14269 Nov 18 04:29	3° <u>♄</u> 17'12		evening max el	14270 Nov 01 07:22	14° <u>♄</u> 58'02	20°49'46
evening max el	14269 Nov 19 12:34	4° <u>♄</u> 39'12	22°23'04	desc. node	14270 Nov 05 01:46	18° <u>♄</u> 06'13	
retrograde	14269 Dec 02 08:04	11° <u>♄</u> 00'05		retrograde	14270 Nov 12 18:31	20° <u>♄</u> 39'59	
evening set	14269 Dec 05 22:29	10° <u>♄</u> 31'37		evening set	14270 Nov 15 05:05	20° <u>♄</u> 25'37	
inferior conj	14269 Dec 14 11:49	6° <u>♄</u> 36'45	-5°57'43	inferior conj	14270 Nov 24 03:03	16° <u>♄</u> 32'01	-5°14'51
minimum elong	14269 Dec 14 09:49	6° <u>♄</u> 39'35	5°56'35	minimum elong	14270 Nov 23 17:49	16° <u>♄</u> 45'13	5°11'55
min. Earth dist.	14269 Dec 13 19:49	6° <u>♄</u> 59'14	0.54643 AU	min. Earth dist.	14270 Nov 25 01:36	15° <u>♄</u> 59'48	0.54544 AU
morning rise	14269 Dec 22 22:17	2° <u>♄</u> 49'26		morning rise	14270 Dec 02 06:43	12° <u>♄</u> 37'55	
direct	14269 Dec 26 05:34	2° <u>♄</u> 24'51		direct	14270 Dec 06 13:11	11° <u>♄</u> 58'54	
morning max el	14270 Jan 07 03:23	8° <u>♄</u> 07'32	21°26'44	morning max el	14270 Dec 19 16:55	18° <u>♄</u> 21'50	23°11'54
asc. node	14270 Jan 12 12:49	14° <u>♄</u> 20'53			14270 Dec 29 02:37	0° <u>♄</u>	
	14270 Jan 21 23:39	0° <u>♄</u>		asc. node	14270 Dec 30 10:01	2° <u>♄</u> 02'03	
morning set	14270 Jan 27 08:19	10° <u>♄</u> 49'50		morning set	14271 Jan 11 19:51	25° <u>♄</u> 35'23	
					14271 Jan 13 21:08	0° <u>♄</u>	
superior conj	14270 Feb 03 13:56	26° <u>♄</u> 03'26	1°18'52	superior conj	14271 Jan 18 17:39	10° <u>♄</u> 30'48	1°31'17
minimum elong	14270 Feb 03 16:19	26° <u>♄</u> 15'53	1°19'16	minimum elong	14271 Jan 18 19:13	10° <u>♄</u> 39'16	1°32'02
	14270 Feb 05 11:46	0° <u>♄</u>		max. Earth dist.	14271 Jan 21 20:51	17° <u>♄</u> 10'38	1.33303 AU
max. Earth dist.	14270 Feb 08 02:47	5° <u>♄</u> 18'10	1.34993 AU	evening rise	14271 Jan 26 14:13	26° <u>♄</u> 48'54	
evening rise	14270 Feb 12 05:26	13° <u>♄</u> 16'48			14271 Jan 28 05:18	0° <u>♄</u>	
desc. node	14270 Feb 14 04:44	16° <u>♄</u> 57'23		desc. node	14271 Feb 01 01:19	7° <u>♄</u> 12'24	
	14270 Feb 21 15:35	0° <u>♄</u>			14271 Feb 14 23:20	0° <u>♄</u>	
evening max el	14270 Mar 14 18:27	0° <u>♄</u>		evening max el	14271 Mar 02 00:42	18° <u>♄</u> 31'37	27°19'07
retrograde	14270 Mar 19 11:22	5° <u>♄</u> 00'39	26°36'39	retrograde	14271 Mar 15 14:33	26° <u>♄</u> 00'29	
evening set	14270 Apr 01 13:21	12° <u>♄</u> 24'01		evening set	14271 Mar 22 07:35	23° <u>♄</u> 30'09	
asc. node	14270 Apr 07 22:25	9° <u>♄</u> 52'00		min. Earth dist.	14271 Mar 26 04:14	19° <u>♄</u> 56'06	0.64803 AU
min. Earth dist.	14270 Apr 10 09:24	7° <u>♄</u> 32'58		asc. node	14271 Mar 28 06:52	17° <u>♄</u> 38'18	
inferior conj	14270 Apr 11 23:38	5° <u>♄</u> 45'36	0.66463 AU	inferior conj	14271 Mar 28 15:04	17° <u>♄</u> 15'47	0°06'32
minimum elong	14270 Apr 13 22:19	3° <u>♄</u> 26'11	1°05'12	minimum elong	14271 Mar 28 14:53	17° <u>♄</u> 16'18	0°06'16
	14270 Apr 13 20:46	3° <u>♄</u> 30'51	1°04'08	transit middle	14271 Mar 28 14:53	17° <u>♄</u> 16'18	0°06'16
	14270 Apr 17 00:06	30° <u>♄</u>		transit begin	14271 Mar 28 12:04	17° <u>♄</u> 24'00	
morning rise	14270 Apr 19 20:11	27° <u>♄</u> 46'19		transit end	14271 Mar 28 17:42	17° <u>♄</u> 08'37	
direct	14270 Apr 22 20:49	26° <u>♄</u> 55'15		morning rise	14271 Apr 04 00:04	11° <u>♄</u> 49'28	
	14270 Apr 28 23:02	0° <u>♄</u>		direct	14271 Apr 06 15:26	11° <u>♄</u> 13'06	
morning max el	14270 Apr 29 06:56	0° <u>♄</u> 18'50	18°19'39	morning max el	14271 Apr 12 23:25	14° <u>♄</u> 29'36	17°54'17
desc. node	14270 May 13 07:00	19° <u>♄</u> 46'47			14271 Apr 24 02:24	0° <u>♄</u>	
morning set	14270 May 19 04:43	29° <u>♄</u> 09'08		morning set	14271 Apr 30 11:47	10° <u>♄</u> 32'47	
	14270 May 19 17:31	0° <u>♄</u>		desc. node	14271 Apr 30 03:41	9° <u>♄</u> 59'11	
superior conj	14270 Jun 03 18:15	23° <u>♄</u> 40'48	-2°04'14		14271 May 12 09:23	0° <u>♄</u>	
minimum elong	14270 Jun 03 11:19	23° <u>♄</u> 13'42	2°04'53	superior conj	14271 May 14 09:46	3° <u>♄</u> 13'12	-1°36'51
max. Earth dist.	14270 Jun 04 17:55	25° <u>♄</u> 13'07	1.45898 AU	minimum elong	14271 May 14 00:54	2° <u>♄</u> 37'53	1°36'49
	14270 Jun 07 19:29	0° <u>♄</u>		max. Earth dist.	14271 May 18 14:06	9° <u>♄</u> 49'42	1.45487 AU
evening rise	14270 Jun 19 17:32	18° <u>♄</u> 36'06		evening rise	14271 May 30 08:54	28° <u>♄</u> 05'38	
	14270 Jun 27 00:48	0° <u>♄</u>			14271 May 31 14:46	0° <u>♄</u>	
greatest brilliancy	14270 Jun 29 21:15	4° <u>♄</u> 23'50	-0.8m	greatest brilliancy	14271 Jun 13 20:57	19° <u>♄</u> 55'09	-0.6m
asc. node	14270 Jul 07 07:39	15° <u>♄</u> 14'46			14271 Jun 21 04:15	0° <u>♄</u>	
evening max el	14270 Jul 12 09:45	21° <u>♄</u> 18'57	18°58'09	asc. node	14271 Jun 24 04:33	3° <u>♄</u> 36'10	
retrograde	14270 Jul 19 04:04	25° <u>♄</u> 02'00		evening max el	14271 Jun 25 15:28	5° <u>♄</u> 08'21	19°49'45
evening set	14270 Jul 22 14:21	23° <u>♄</u> 54'02		retrograde	14271 Jul 03 02:31	9° <u>♄</u> 21'41	
inferior conj	14270 Jul 28 02:31	18° <u>♄</u> 08'54	2°53'47	evening set	14271 Jul 06 22:27	7° <u>♄</u> 56'41	
minimum elong	14270 Jul 28 04:12	18° <u>♄</u> 03'33	2°52'45	inferior conj	14271 Jul 12 06:02	1° <u>♄</u> 58'24	3°08'25
min. Earth dist.	14270 Jul 29 18:09	16° <u>♄</u> 02'52	0.66486 AU	minimum elong	14271 Jul 12 06:46	1° <u>♄</u> 55'59	3°07'26
morning rise	14270 Aug 02 17:19	11° <u>♄</u> 43'59		min. Earth dist.	14271 Jul 13 07:25	0° <u>♄</u> 33'04	0.67786 AU
direct	14270 Aug 08 22:20	9° <u>♄</u> 05'13			14271 Jul 13 17:23	30° <u>♄</u>	
desc. node	14270 Aug 09 05:37	9° <u>♄</u> 05'34		morning rise	14271 Jul 17 14:41	25° <u>♄</u> 34'29	
morning max el	14270 Aug 21 19:06	16° <u>♄</u> 44'18	26°18'41	direct	14271 Jul 23 09:09	23° <u>♄</u> 02'41	
	14270 Sep 01 19:54	0° <u>♄</u>					

desc. node	14271 Jul 27 03:01	23°☿55'35		minimum elong	14272 Jun 25 13:22	16°☿00'44	3°09'41
morning max el	14271 Aug 04 05:57	0°♊09'26	24°58'35	min. Earth dist.	14272 Jun 26 01:22	15°☿19'05	0.68622 AU
	14271 Aug 04 02:13	0°♊		morning rise	14272 Jun 30 18:39	9°☿40'05	
	14271 Aug 26 16:56	0°♊		direct	14272 Jul 06 01:08	7°☿21'43	
morning set	14271 Sep 09 01:42	22°♊07'53		desc. node	14272 Jul 13 00:21	10°☿23'33	
max. Earth dist.	14271 Sep 12 15:15	28°♊34'22	1.36915 AU	morning max el	14272 Jul 16 16:34	13°☿42'41	23°29'49
	14271 Sep 13 09:47	0°♊			14272 Jul 29 21:14	0°♊	
					14272 Aug 18 13:59	0°♊	
superior conj	14271 Sep 19 07:22	11°♊16'45	-0°08'44	morning set	14272 Aug 20 13:13	3°♊16'56	
minimum elong	14271 Sep 19 07:55	11°♊19'28	0°08'32	max. Earth dist.	14272 Aug 24 13:04	10°♊06'58	1.39268 AU
behind sun begin	14271 Sep 19 02:20	10°♊52'02					
behind sun end	14271 Sep 19 13:30	11°♊46'57		superior conj	14272 Sep 01 05:02	23°♊56'06	-0°43'29
asc. node	14271 Sep 20 06:03	13°♊08'34		minimum elong	14272 Sep 01 08:13	24°♊10'56	0°43'10
evening rise	14271 Sep 27 13:44	27°♊53'10			14272 Sep 04 10:11	0°♊	
	14271 Sep 28 14:55	0°♊		asc. node	14272 Sep 06 02:36	3°♊13'46	
evening max el	14271 Oct 14 16:19	26°♊02'28	19°35'52	evening rise	14272 Sep 10 11:36	11°♊42'32	
	14271 Oct 20 03:33	0°♊			14272 Sep 20 13:03	0°♊	
desc. node	14271 Oct 22 23:09	0°♊50'09		evening max el	14272 Sep 26 14:37	7°♊55'43	18°43'56
retrograde	14271 Oct 24 12:11	0°♊57'10		retrograde	14272 Oct 04 22:18	12°♊07'09	
evening set	14271 Oct 26 09:49	0°♊46'57		evening set	14272 Oct 06 20:03	11°♊54'44	
	14271 Oct 29 02:49	30°♊		desc. node	14272 Oct 08 20:37	11°♊16'18	
inferior conj	14271 Nov 04 03:20	26°♊42'37	-3°44'08	inferior conj	14272 Oct 14 22:38	7°♊31'46	-1°56'17
minimum elong	14271 Nov 03 18:09	26°♊57'11	3°40'13	minimum elong	14272 Oct 14 17:51	7°♊40'34	1°53'49
min. Earth dist.	14271 Nov 06 10:34	25°♊15'12	0.55373 AU	min. Earth dist.	14272 Oct 18 00:56	5°♊15'51	0.56986 AU
morning rise	14271 Nov 12 00:35	22°♊21'36		morning rise	14272 Oct 22 12:20	2°♊34'01	
direct	14271 Nov 17 04:35	21°♊22'02		direct	14272 Oct 28 10:16	1°♊08'36	
morning max el	14271 Dec 01 02:27	28°♊19'29	25°00'17	morning max el	14272 Nov 11 15:53	8°♊32'59	26°33'15
	14271 Dec 02 18:47	0°♊			14272 Nov 27 19:06	0°♊	
asc. node	14271 Dec 17 07:06	20°♊30'08		asc. node	14272 Dec 03 04:06	9°♊32'28	
	14271 Dec 22 08:31	0°♊		morning set	14272 Dec 10 18:08	24°♊52'33	
morning set	14271 Dec 27 07:43	10°♊18'12			14272 Dec 13 02:42	0°♊	
superior conj	14272 Jan 03 02:06	25°♊09'12	1°37'19	superior conj	14272 Dec 17 13:06	9°♊51'17	1°37'14
minimum elong	14272 Jan 03 02:38	25°♊12'05	1°38'17	minimum elong	14272 Dec 17 12:33	9°♊48'14	1°38'16
max. Earth dist.	14272 Jan 04 22:09	29°♊10'42	1.32073 AU	max. Earth dist.	14272 Dec 18 04:34	11°♊17'32	1.31344 AU
	14272 Jan 05 07:13	0°♊		evening rise	14272 Dec 24 11:02	24°♊58'26	
evening rise	14272 Jan 10 09:00	10°♊45'17			14272 Dec 26 21:08	0°♊	
desc. node	14272 Jan 18 22:00	27°♊11'13		desc. node	14273 Jan 04 18:47	16°♊46'16	
	14272 Jan 20 12:15	0°♊			14273 Jan 13 03:59	0°♊	
	14272 Feb 10 21:48	0°♊		evening max el	14273 Jan 24 19:03	13°♊57'43	27°17'10
evening max el	14272 Feb 12 12:00	1°♊34'39	27°34'26	retrograde	14273 Feb 07 18:41	21°♊15'28	
retrograde	14272 Feb 26 08:47	9°♊00'55		evening set	14273 Feb 14 13:54	19°♊11'31	
evening set	14272 Mar 04 05:46	6°♊39'42		min. Earth dist.	14273 Feb 18 09:34	16°♊25'27	0.60662 AU
min. Earth dist.	14272 Mar 07 23:56	3°♊33'22	0.62830 AU	inferior conj	14273 Feb 21 13:22	13°♊42'40	-2°25'12
inferior conj	14272 Mar 10 21:14	0°♊44'14	-1°04'09	minimum elong	14273 Feb 21 18:38	13°♊31'19	2°22'45
minimum elong	14272 Mar 10 23:22	0°♊39'00	1°03'10	morning rise	14273 Mar 01 02:36	8°♊51'08	
	14272 Mar 11 15:26	30°♊		asc. node	14273 Mar 01 01:50	8°♊51'40	
asc. node	14272 Mar 14 04:21	27°♊44'02		direct	14273 Mar 03 04:37	8°♊33'26	
morning rise	14272 Mar 17 19:41	25°♊33'58		morning max el	14273 Mar 10 08:52	12°♊09'19	17°56'34
direct	14272 Mar 20 03:15	25°♊08'48			14273 Mar 22 07:53	0°♊	
morning max el	14272 Mar 26 17:10	28°♊29'39	17°46'17	morning set	14273 Mar 25 22:47	6°♊34'30	
	14272 Mar 28 03:17	0°♊		desc. node	14273 Apr 02 20:50	20°♊54'28	
morning set	14272 Apr 11 19:48	23°♊07'13					
	14272 Apr 15 18:55	0°♊		superior conj	14273 Apr 05 09:28	25°♊21'02	-0°20'08
desc. node	14272 Apr 16 00:17	0°♊23'09		minimum elong	14273 Apr 05 07:41	25°♊13'18	0°20'11
					14273 Apr 08 02:07	0°♊	
superior conj	14272 Apr 23 21:37	13°♊43'57	-0°59'25	max. Earth dist.	14273 Apr 12 21:05	8°♊02'18	1.42685 AU
minimum elong	14272 Apr 23 15:47	13°♊19'49	0°59'15	evening rise	14273 Apr 18 19:29	17°♊37'04	
max. Earth dist.	14272 Apr 30 07:33	24°♊10'05	1.44376 AU		14273 Apr 26 20:06	0°♊	
	14272 May 03 23:51	0°♊			14273 May 18 18:18	0°♊	
evening rise	14272 May 08 20:23	7°♊33'04		evening max el	14273 May 21 09:53	2°♊49'52	22°11'15
	14272 May 23 21:20	0°♊		asc. node	14273 May 27 22:41	7°♊45'15	
evening max el	14272 Jun 07 15:17	18°♊58'35	20°55'22	retrograde	14273 May 30 23:19	8°♊26'28	
asc. node	14272 Jun 10 01:34	21°♊11'10		evening set	14273 Jun 04 16:39	6°♊28'38	
retrograde	14272 Jun 16 01:32	23°♊51'30		inferior conj	14273 Jun 09 23:10	0°♊09'04	3°02'05
evening set	14272 Jun 20 07:48	22°♊09'37		minimum elong	14273 Jun 09 22:00	0°♊13'09	3°00'53
inferior conj	14272 Jun 25 13:38	15°♊59'46	3°10'44	min. Earth dist.	14273 Jun 09 21:46	0°♊13'58	0.68981 AU

	14273 Jun 10 01:46	30° $\mathbb{R}\mathbb{II}$		inferior conj	14274 May 25 08:40	14° $\mathbb{II}21'49$	2°43'03
morning rise	14273 Jun 15 03:10	23° $\mathbb{II}55'46$		minimum elong	14274 May 25 06:50	14° $\mathbb{II}28'08$	2°41'42
direct	14273 Jun 19 21:06	21° $\mathbb{II}55'19$		min. Earth dist.	14274 May 24 18:26	15° $\mathbb{II}10'42$	0.68865 AU
morning max el	14273 Jun 29 05:26	27° $\mathbb{II}23'51$	22°01'38	morning rise	14274 May 30 14:15	8° $\mathbb{II}16'18$	
desc. node	14273 Jun 29 21:34	28° $\mathbb{II}05'03$		direct	14274 Jun 03 19:40	6° $\mathbb{II}36'06$	
	14273 Jul 01 15:56	0° $\mathfrak{S}$		morning max el	14274 Jun 11 23:40	11° $\mathbb{II}15'10$	20°41'19
	14273 Jul 23 10:47	0° $\mathbb{Q}$		desc. node	14274 Jun 16 18:38	16° $\mathbb{II}39'58$	
morning set	14273 Aug 01 00:24	13° $\mathbb{Q}22'20$			14274 Jun 26 13:24	0° $\mathfrak{S}$	
max. Earth dist.	14273 Aug 06 14:22	22° $\mathbb{Q}29'24$	1.41580 AU	morning set	14274 Jul 11 12:42	22° $\mathfrak{S}28'52$	
	14273 Aug 11 00:53	0° $\mathbb{P}$			14274 Jul 16 07:52	0° $\mathbb{Q}$	
				max. Earth dist.	14274 Jul 19 22:26	5° $\mathbb{Q}45'42$	1.43571 AU
superior conj	14273 Aug 14 08:41	5° $\mathbb{P}47'13$	-1°18'49				
minimum elong	14273 Aug 14 14:44	6° $\mathbb{P}13'55$	1°18'30	superior conj	14274 Jul 26 14:00	16° $\mathbb{Q}39'55$	-1°49'55
asc. node	14273 Aug 23 23:11	23° $\mathbb{P}12'55$		minimum elong	14274 Jul 26 21:24	17° $\mathbb{Q}10'51$	1°50'02
evening rise	14273 Aug 24 22:58	25° $\mathbb{P}03'02$			14274 Aug 03 09:38	0° $\mathbb{P}$	
	14273 Aug 27 15:19	0° $\mathfrak{L}$		evening rise	14274 Aug 07 19:13	7° $\mathbb{P}42'23$	
evening max el	14273 Sep 09 22:26	20° $\mathfrak{L}30'46$	18°13'12	asc. node	14274 Aug 10 19:46	13° $\mathbb{P}01'19$	
retrograde	14273 Sep 17 03:38	24° $\mathfrak{L}11'07$			14274 Aug 21 09:04	0° $\mathfrak{L}$	
evening set	14273 Sep 19 07:26	23° $\mathfrak{L}52'02$		evening max el	14274 Aug 24 11:27	3° $\mathfrak{L}36'26$	18°02'21
desc. node	14273 Sep 25 18:07	19° $\mathfrak{L}53'45$		retrograde	14274 Aug 31 01:17	7° $\mathfrak{L}00'13$	
inferior conj	14273 Sep 26 15:45	19° $\mathfrak{L}07'46$	-0°17'00	evening set	14274 Sep 02 12:54	6° $\mathfrak{L}30'46$	
minimum elong	14273 Sep 26 15:09	19° $\mathfrak{L}09'03$	0°16'31	inferior conj	14274 Sep 09 04:24	1° $\mathfrak{L}26'34$	1°02'22
min. Earth dist.	14273 Sep 29 22:41	16° $\mathfrak{L}19'24$	0.59098 AU	minimum elong	14274 Sep 09 06:08	1° $\mathfrak{L}22'15$	1°01'39
morning rise	14273 Oct 03 19:28	13° $\mathfrak{L}35'04$			14274 Sep 10 15:10	30° $\mathbb{R}\mathbb{P}$	
direct	14273 Oct 10 05:39	11° $\mathfrak{L}42'40$		min. Earth dist.	14274 Sep 12 05:37	28° $\mathbb{P}26'35$	0.61384 AU
morning max el	14273 Oct 24 12:55	19° $\mathfrak{L}26'28$	27°35'10	desc. node	14274 Sep 12 15:39	28° $\mathbb{P}03'10$	
	14273 Nov 02 12:52	0° $\mathbb{M}$		morning rise	14274 Sep 15 20:40	25° $\mathbb{P}27'13$	
asc. node	14273 Nov 20 01:01	29° $\mathbb{M}00'01$		direct	14274 Sep 22 12:22	23° $\mathbb{P}11'22$	
	14273 Nov 20 13:12	0° $\mathfrak{X}$			14274 Oct 05 12:59	0° $\mathfrak{L}$	
morning set	14273 Nov 25 01:18	9° $\mathfrak{X}14'01$		morning max el	14274 Oct 06 17:14	1° $\mathfrak{L}08'02$	27°58'41
max. Earth dist.	14273 Dec 01 12:48	23° $\mathfrak{X}25'08$	1.31138 AU		14274 Oct 27 18:32	0° $\mathbb{M}$	
				asc. node	14274 Nov 06 21:48	18° $\mathbb{M}45'31$	
superior conj	14273 Dec 02 00:41	24° $\mathfrak{X}31'33$	1°31'15	morning set	14274 Nov 09 03:16	23° $\mathbb{M}17'58$	
minimum elong	14273 Dec 01 23:12	24° $\mathfrak{X}23'18$	1°32'11		14274 Nov 12 07:25	0° $\mathfrak{X}$	
	14273 Dec 04 11:28	0° $\mathfrak{Z}$		max. Earth dist.	14274 Nov 14 19:05	5° $\mathfrak{X}24'34$	1.31463 AU
evening rise	14273 Dec 08 18:02	9° $\mathfrak{Z}22'39$					
	14273 Dec 19 05:28	0° $\mathfrak{A}$		superior conj	14274 Nov 16 11:00	9° $\mathfrak{X}04'48$	1°19'27
desc. node	14273 Dec 22 15:39	5° $\mathfrak{A}48'28$		minimum elong	14274 Nov 16 08:53	8° $\mathfrak{X}53'07$	1°20'08
evening max el	14274 Jan 06 19:10	25° $\mathfrak{A}30'39$	26°25'01	evening rise	14274 Nov 23 04:00	23° $\mathfrak{X}52'54$	
	14274 Jan 12 12:27	0° $\mathfrak{H}$			14274 Nov 26 01:14	0° $\mathfrak{Z}$	
retrograde	14274 Jan 20 18:16	2° $\mathfrak{H}37'08$		desc. node	14274 Dec 09 12:38	24° $\mathfrak{Z}05'37$	
evening set	14274 Jan 27 04:13	0° $\mathfrak{H}57'35$			14274 Dec 13 20:29	0° $\mathfrak{A}$	
	14274 Jan 28 21:27	30° $\mathbb{R}\mathfrak{A}$		evening max el	14274 Dec 19 10:46	6° $\mathfrak{A}11'36$	25°02'19
min. Earth dist.	14274 Jan 31 08:46	28° $\mathfrak{A}20'40$	0.58484 AU	retrograde	14275 Jan 02 05:51	13° $\mathfrak{A}06'19$	
inferior conj	14274 Feb 03 11:48	26° $\mathfrak{A}00'53$	-3°50'55	evening set	14275 Jan 07 20:49	11° $\mathfrak{A}55'31$	
minimum elong	14274 Feb 03 20:03	25° $\mathfrak{A}45'27$	3°47'32	min. Earth dist.	14275 Jan 12 22:44	9° $\mathfrak{A}12'07$	0.56537 AU
morning rise	14274 Feb 11 14:57	21° $\mathfrak{A}30'34$		inferior conj	14275 Jan 15 13:42	7° $\mathfrak{A}30'15$	-5°08'09
direct	14274 Feb 13 15:19	21° $\mathfrak{A}16'39$		minimum elong	14275 Jan 15 22:19	7° $\mathfrak{A}16'17$	5°05'21
asc. node	14274 Feb 15 23:18	21° $\mathfrak{A}36'11$		morning rise	14275 Jan 24 02:09	3° $\mathfrak{A}21'52$	
morning max el	14274 Feb 21 18:42	25° $\mathfrak{A}17'36$	18°26'39	direct	14275 Jan 26 07:20	3° $\mathfrak{A}07'56$	
	14274 Feb 25 17:46	0° $\mathfrak{H}$		asc. node	14275 Feb 02 20:42	6° $\mathfrak{A}02'58$	
morning set	14274 Mar 09 15:06	20° $\mathfrak{H}37'37$		morning max el	14275 Feb 04 18:38	7° $\mathfrak{A}43'29$	19°18'32
	14274 Mar 14 12:48	0° $\mathbb{Y}$			14275 Feb 19 02:54	0° $\mathfrak{H}$	
				morning set	14275 Feb 21 16:30	5° $\mathfrak{H}04'01$	
superior conj	14274 Mar 18 18:46	7° $\mathbb{Y}56'38$	0°15'45				
minimum elong	14274 Mar 18 19:52	8° $\mathbb{Y}01'44$	0°15'32	superior conj	14275 Mar 01 21:06	21° $\mathfrak{H}18'47$	0°45'37
behind sun begin	14274 Mar 18 18:15	7° $\mathbb{Y}54'18$		minimum elong	14275 Mar 01 23:34	21° $\mathfrak{H}30'44$	0°45'30
behind sun end	14274 Mar 18 21:29	8° $\mathbb{Y}09'08$			14275 Mar 06 10:58	0° $\mathbb{Y}$	
desc. node	14274 Mar 20 17:19	11° $\mathbb{Y}29'05$		desc. node	14275 Mar 07 13:49	2° $\mathbb{Y}03'46$	
max. Earth dist.	14274 Mar 26 06:26	21° $\mathbb{Y}16'24$	1.40594 AU	max. Earth dist.	14275 Mar 08 13:05	3° $\mathbb{Y}49'48$	1.38329 AU
evening rise	14274 Mar 30 14:24	28° $\mathbb{Y}34'40$		evening rise	14275 Mar 12 06:25	10° $\mathbb{Y}26'39$	
	14274 Mar 31 11:07	0° $\mathfrak{B}$			14275 Mar 24 05:43	0° $\mathfrak{B}$	
	14274 Apr 20 08:42	0° $\mathbb{II}$			14275 Apr 16 00:13	0° $\mathbb{II}$	
evening max el	14274 May 04 00:57	16° $\mathbb{II}42'15$	23°32'08	evening max el	14275 Apr 16 14:30	0° $\mathbb{II}35'44$	24°51'31
retrograde	14274 May 14 18:25	23° $\mathbb{II}00'41$		retrograde	14275 Apr 28 09:51	7° $\mathbb{II}28'40$	
asc. node	14274 May 14 19:53	23° $\mathbb{II}00'40$		asc. node	14275 May 01 17:10	6° $\mathbb{II}41'36$	
evening set	14274 May 19 23:22	20° $\mathbb{II}48'35$		evening set	14275 May 04 02:24	5° $\mathbb{II}05'14$	

min. Earth dist.	14275 May 08 13:18	0° $\Pi$ 03'49	0.68283 AU	min. Earth dist.	14276 Apr 21 04:21	14° $\mathcal{B}$ 46'31	0.67247 AU
	14275 May 08 14:28	30° $\mathcal{R}$ $\mathcal{B}$		inferior conj	14276 Apr 22 19:55	12° $\mathcal{B}$ 43'04	1°33'29
inferior conj	14275 May 09 16:15	28° $\mathcal{B}$ 34'40	2°13'40	minimum elong	14276 Apr 22 17:57	12° $\mathcal{B}$ 49'13	1°32'12
minimum elong	14275 May 09 14:06	28° $\mathcal{B}$ 41'48	2°12'14	morning rise	14276 Apr 28 12:37	6° $\mathcal{B}$ 56'37	
morning rise	14275 May 15 02:03	22° $\mathcal{B}$ 38'05		direct	14276 May 01 18:58	5° $\mathcal{B}$ 55'59	
direct	14275 May 18 19:31	21° $\mathcal{B}$ 18'25		morning max el	14276 May 08 10:09	9° $\mathcal{B}$ 29'21	18°41'53
morning max el	14275 May 26 01:18	25° $\mathcal{B}$ 18'11	19°33'48	desc. node	14276 May 20 12:27	25° $\mathcal{B}$ 37'11	
	14275 May 30 05:12	0° $\Pi$			14276 May 23 09:01	0° $\Pi$	
desc. node	14275 Jun 03 15:36	5° $\Pi$ 54'16		morning set	14276 May 30 03:50	10° $\Pi$ 33'28	
greatest brilliancy	14275 Jun 07 16:31	11° $\Pi$ 42'01	-0.6m		14276 Jun 11 14:55	0° $\mathcal{E}$	
	14275 Jun 19 19:44	0° $\mathcal{E}$		max. Earth dist.	14276 Jun 14 06:50	4° $\mathcal{E}$ 09'23	1.45785 AU
morning set	14275 Jun 20 14:48	1° $\mathcal{E}$ 13'07					
max. Earth dist.	14275 Jul 02 12:40	19° $\mathcal{E}$ 44'23	1.45019 AU	superior conj	14276 Jun 15 07:44	5° $\mathcal{E}$ 46'36	-2°12'12
				minimum elong	14276 Jun 15 04:41	5° $\mathcal{E}$ 34'42	2°13'11
superior conj	14275 Jul 06 19:39	26° $\mathcal{E}$ 33'18	-2°09'58	evening rise	14276 Jun 30 18:59	0° $\mathcal{O}$ 12'36	
minimum elong	14275 Jul 07 00:04	26° $\mathcal{E}$ 50'56	2°10'49		14276 Jun 30 15:50	0° $\mathcal{O}$	
	14275 Jul 08 23:09	0° $\mathcal{O}$		greatest brilliancy	14276 Jul 07 13:19	11° $\mathcal{O}$ 00'17	-0.9m
evening rise	14275 Jul 20 19:14	19° $\mathcal{O}$ 28'19		asc. node	14276 Jul 14 13:08	21° $\mathcal{O}$ 46'01	
	14275 Jul 27 02:43	0° $\mathcal{M}$			14276 Jul 20 21:40	0° $\mathcal{M}$	
asc. node	14275 Jul 28 16:24	2° $\mathcal{M}$ 34'15		evening max el	14276 Jul 21 14:50	0° $\mathcal{M}$ 44'07	18°35'49
evening max el	14275 Aug 08 01:56	17° $\mathcal{M}$ 03'22	18°10'10	retrograde	14276 Jul 28 03:19	4° $\mathcal{M}$ 15'37	
retrograde	14275 Aug 14 10:33	20° $\mathcal{M}$ 24'26		evening set	14276 Jul 31 08:11	3° $\mathcal{M}$ 17'25	
evening set	14275 Aug 17 06:35	19° $\mathcal{M}$ 41'41			14276 Aug 04 01:14	30° $\mathcal{R}$ $\mathcal{O}$	
inferior conj	14275 Aug 23 08:36	14° $\mathcal{M}$ 20'09	2°00'14	inferior conj	14276 Aug 06 00:25	27° $\mathcal{O}$ 40'38	2°38'57
minimum elong	14275 Aug 23 11:02	14° $\mathcal{M}$ 13'20	1°59'09	minimum elong	14276 Aug 06 02:32	27° $\mathcal{O}$ 34'08	2°37'52
min. Earth dist.	14275 Aug 25 22:26	11° $\mathcal{M}$ 28'44	0.63587 AU	min. Earth dist.	14276 Aug 08 00:27	25° $\mathcal{O}$ 14'18	0.65529 AU
morning rise	14275 Aug 29 13:40	8° $\mathcal{M}$ 04'10		morning rise	14276 Aug 11 19:48	21° $\mathcal{O}$ 16'58	
desc. node	14275 Aug 30 13:11	7° $\mathcal{M}$ 22'13		desc. node	14276 Aug 16 10:41	18° $\mathcal{O}$ 49'26	
direct	14275 Sep 05 04:52	5° $\mathcal{M}$ 32'01		direct	14276 Aug 18 05:40	18° $\mathcal{O}$ 37'37	
morning max el	14275 Sep 19 02:25	13° $\mathcal{M}$ 32'52	27°44'04	morning max el	14276 Aug 31 13:32	26° $\mathcal{O}$ 29'41	26°57'05
	14275 Oct 02 08:52	0° $\mathcal{L}$			14276 Sep 03 19:44	0° $\mathcal{M}$	
	14275 Oct 20 08:05	0° $\mathcal{M}$			14276 Sep 24 23:16	0° $\mathcal{L}$	
morning set	14275 Oct 23 21:42	6° $\mathcal{M}$ 58'13		morning set	14276 Oct 06 05:46	20° $\mathcal{L}$ 08'14	
asc. node	14275 Oct 24 18:28	8° $\mathcal{M}$ 42'49		max. Earth dist.	14276 Oct 10 10:34	28° $\mathcal{L}$ 24'40	1.33742 AU
max. Earth dist.	14275 Oct 28 19:27	17° $\mathcal{M}$ 05'54	1.32332 AU	asc. node	14276 Oct 10 15:05	28° $\mathcal{L}$ 47'27	
					14276 Oct 11 05:23	0° $\mathcal{M}$	
superior conj	14275 Oct 31 18:04	23° $\mathcal{M}$ 25'08	1°01'51	superior conj	14276 Oct 14 19:42	7° $\mathcal{M}$ 27'03	0°38'33
minimum elong	14275 Oct 31 15:46	23° $\mathcal{M}$ 12'41	1°02'15	minimum elong	14276 Oct 14 17:51	7° $\mathcal{M}$ 17'20	0°38'45
	14275 Nov 03 18:25	0° $\mathcal{A}$		evening rise	14276 Oct 22 01:18	22° $\mathcal{M}$ 50'30	
evening rise	14275 Nov 07 15:02	8° $\mathcal{A}$ 23'41			14276 Oct 25 12:03	0° $\mathcal{A}$	
	14275 Nov 18 16:45	0° $\mathcal{B}$		evening max el	14276 Nov 11 09:31	26° $\mathcal{A}$ 19'22	21°41'33
desc. node	14275 Nov 26 09:44	11° $\mathcal{B}$ 20'14		desc. node	14276 Nov 12 06:57	27° $\mathcal{A}$ 10'13	
evening max el	14275 Nov 30 20:35	16° $\mathcal{B}$ 15'47	23°21'51		14276 Nov 15 22:56	0° $\mathcal{B}$	
retrograde	14275 Dec 14 04:43	22° $\mathcal{B}$ 53'26		retrograde	14276 Nov 23 17:12	2° $\mathcal{B}$ 25'37	
evening set	14275 Dec 18 14:11	22° $\mathcal{B}$ 11'29		evening set	14276 Nov 26 18:02	2° $\mathcal{B}$ 04'48	
min. Earth dist.	14275 Dec 25 06:45	19° $\mathcal{B}$ 02'09	0.55112 AU		14276 Dec 02 04:43	30° $\mathcal{R}$ $\mathcal{A}$	
inferior conj	14275 Dec 26 19:28	18° $\mathcal{B}$ 08'48	-5°54'37	inferior conj	14276 Dec 05 12:19	28° $\mathcal{A}$ 12'05	-5°46'53
minimum elong	14275 Dec 26 22:44	18° $\mathcal{B}$ 04'03	5°53'22	minimum elong	14276 Dec 05 06:33	28° $\mathcal{A}$ 20'10	5°45'11
morning rise	14276 Jan 04 08:54	14° $\mathcal{B}$ 17'18		min. Earth dist.	14276 Dec 05 12:48	28° $\mathcal{A}$ 11'24	0.54484 AU
direct	14276 Jan 07 03:54	13° $\mathcal{B}$ 58'33		morning rise	14276 Dec 13 19:51	24° $\mathcal{A}$ 24'01	
morning max el	14276 Jan 18 04:58	19° $\mathcal{B}$ 16'11	20°33'36	direct	14276 Dec 17 12:42	23° $\mathcal{A}$ 54'05	
asc. node	14276 Jan 20 18:01	21° $\mathcal{B}$ 58'44		morning max el	14276 Dec 30 00:56	29° $\mathcal{A}$ 55'11	22°09'52
	14276 Jan 26 12:10	0° $\approx$			14276 Dec 30 02:58	0° $\mathcal{B}$	
morning set	14276 Feb 05 23:40	19° $\approx$ 42'56		asc. node	14277 Jan 06 15:16	9° $\mathcal{B}$ 06'23	
	14276 Feb 10 22:47	0° $\mathcal{H}$			14277 Jan 18 06:54	0° $\approx$	
superior conj	14276 Feb 13 12:02	5° $\mathcal{H}$ 13'56	1°08'42	morning set	14277 Jan 20 10:12	4° $\approx$ 27'40	
minimum elong	14276 Feb 13 14:41	5° $\mathcal{H}$ 27'23	1°08'52				
max. Earth dist.	14276 Feb 18 20:41	15° $\mathcal{H}$ 50'52	1.36135 AU	superior conj	14277 Jan 27 11:57	19° $\approx$ 32'00	1°24'55
desc. node	14276 Feb 22 10:20	22° $\mathcal{H}$ 34'03		minimum elong	14277 Jan 27 14:02	19° $\approx$ 43'02	1°25'29
evening rise	14276 Feb 22 17:00	23° $\mathcal{H}$ 04'40		max. Earth dist.	14277 Jan 31 10:01	27° $\approx$ 40'39	1.34226 AU
	14276 Feb 26 13:43	0° $\mathcal{Y}$			14277 Feb 01 13:34	0° $\mathcal{H}$	
	14276 Mar 16 23:05	0° $\mathcal{B}$		evening rise	14277 Feb 04 18:42	6° $\mathcal{H}$ 19'54	
evening max el	14276 Mar 29 03:56	14° $\mathcal{B}$ 26'37	26°02'29	desc. node	14277 Feb 08 06:53	12° $\mathcal{H}$ 56'03	
retrograde	14276 Apr 10 20:37	21° $\mathcal{B}$ 43'05			14277 Feb 18 06:24	0° $\mathcal{Y}$	
evening set	14276 Apr 17 00:03	19° $\mathcal{B}$ 12'33		evening max el	14277 Mar 11 17:40	28° $\mathcal{Y}$ 08'16	26°57'35
asc. node	14276 Apr 17 14:32	18° $\mathcal{B}$ 41'04			14277 Mar 13 18:09	0° $\mathcal{B}$	

retrograde	14277 Mar 25 01:45	5°♄35'46			14278 Feb 12 07:17	0°♄	
evening set	14277 Mar 31 14:24	3°♄03'46		evening max el	14278 Feb 22 06:42	11°♄30'15	27°29'23
	14277 Apr 03 19:53	30°♄		retrograde	14278 Mar 08 00:07	18°♄58'19	
asc. node	14277 Apr 04 11:58	29°♄15'33		evening set	14278 Mar 14 19:16	16°♄31'17	
min. Earth dist.	14277 Apr 04 13:29	29°♄11'16	0.65798 AU	min. Earth dist.	14278 Mar 18 14:42	13°♄09'26	0.63996 AU
inferior conj	14277 Apr 06 17:25	26°♄41'36	0°41'46	inferior conj	14278 Mar 21 06:09	10°♄24'00	-0°21'58
minimum elong	14277 Apr 06 16:20	26°♄44'44	0°41'00	minimum elong	14278 Mar 21 06:49	10°♄22'13	0°21'46
morning rise	14277 Apr 12 19:42	21°♄07'05		asc. node	14278 Mar 22 09:27	9°♄13'31	
direct	14277 Apr 15 16:08	20°♄22'47		morning rise	14278 Mar 27 20:35	5°♄03'48	
morning max el	14277 Apr 22 00:31	23°♄42'15	18°06'40	direct	14278 Mar 30 08:26	4°♄32'35	
	14277 Apr 27 05:30	0°♄		morning max el	14278 Apr 05 17:55	7°♄49'42	17°48'39
desc. node	14277 May 07 09:12	15°♄40'42			14278 Apr 20 17:00	0°♄	
morning set	14277 May 10 18:43	21°♄10'18		morning set	14278 Apr 22 13:13	3°♄07'08	
	14277 May 16 06:11	0°♄		desc. node	14278 Apr 24 05:51	5°♄58'57	
superior conj	14277 May 25 17:01	14°♄59'14	-1°54'24	superior conj	14278 May 05 16:11	24°♄54'11	-1°21'39
minimum elong	14277 May 25 08:26	14°♄25'32	1°54'44	minimum elong	14278 May 05 08:14	24°♄22'03	1°21'30
max. Earth dist.	14277 May 28 02:49	18°♄45'33	1.45811 AU		14278 May 08 20:25	0°♄	
	14277 Jun 04 08:11	0°♄		max. Earth dist.	14278 May 10 22:27	3°♄18'38	1.45100 AU
evening rise	14277 Jun 10 19:33	10°♄01'24		evening rise	14278 May 21 07:20	19°♄25'39	
greatest brilliancy	14277 Jun 23 01:53	28°♄47'50	-0.7m		14278 May 28 06:40	0°♄	
	14277 Jun 23 21:17	0°♄		evening max el	14278 Jun 18 03:07	28°♄22'44	20°16'09
asc. node	14277 Jul 01 09:58	10°♄28'34		asc. node	14278 Jun 18 06:56	28°♄32'14	
evening max el	14277 Jul 04 23:44	14°♄31'59	19°18'20		14278 Jun 19 21:02	0°♄	
retrograde	14277 Jul 12 00:19	18°♄26'26		retrograde	14278 Jun 25 23:10	2°♄51'27	
evening set	14277 Jul 15 14:36	17°♄11'23		evening set	14278 Jun 29 23:29	1°♄19'06	
inferior conj	14277 Jul 21 00:29	11°♄20'47	3°01'37		14278 Jul 01 10:36	30°♄	
minimum elong	14277 Jul 21 01:46	11°♄16'33	3°00'36	inferior conj	14278 Jul 05 06:02	25°♄15'52	3°10'47
min. Earth dist.	14277 Jul 22 10:06	9°♄31'02	0.67094 AU	minimum elong	14278 Jul 05 06:20	25°♄14'52	3°09'47
morning rise	14277 Jul 26 12:21	4°♄55'49		min. Earth dist.	14278 Jul 06 01:32	24°♄09'20	0.68208 AU
direct	14277 Aug 01 13:15	2°♄18'46		morning rise	14278 Jul 10 12:51	18°♄53'42	
desc. node	14277 Aug 03 08:09	2°♄30'48		direct	14278 Jul 16 02:27	16°♄26'54	
morning max el	14277 Aug 14 00:27	9°♄46'03	25°46'13	desc. node	14278 Jul 21 05:31	18°♄05'55	
	14277 Aug 30 00:36	0°♄		morning max el	14278 Jul 27 10:54	23°♄14'38	24°21'15
	14277 Sep 17 12:52	0°♄			14278 Aug 02 10:19	0°♄	
morning set	14277 Sep 18 23:52	2°♄38'39			14278 Aug 23 08:58	0°♄	
max. Earth dist.	14277 Sep 22 15:45	9°♄28'44	1.35649 AU	morning set	14278 Aug 31 23:48	14°♄20'06	
asc. node	14277 Sep 27 11:39	18°♄54'54		max. Earth dist.	14278 Sep 04 14:50	20°♄44'04	1.37911 AU
					14278 Sep 09 15:35	0°♄	
superior conj	14277 Sep 28 13:10	21°♄03'05	0°09'53	superior conj	14278 Sep 11 19:12	4°♄05'46	-0°23'11
minimum elong	14277 Sep 28 12:35	21°♄00'06	0°10'02	minimum elong	14278 Sep 11 20:47	4°♄13'22	0°22'56
behind sun begin	14277 Sep 28 07:42	20°♄35'33		asc. node	14278 Sep 14 08:14	9°♄02'00	
behind sun end	14277 Sep 28 17:27	21°♄24'42		evening rise	14278 Sep 20 10:57	21°♄09'13	
	14277 Oct 02 22:03	0°♄			14278 Sep 24 23:42	0°♄	
evening rise	14277 Oct 06 08:44	7°♄07'31		evening max el	14278 Oct 07 01:06	18°♄20'48	19°11'01
	14277 Oct 18 19:51	0°♄		retrograde	14278 Oct 16 04:22	22°♄55'48	
evening max el	14277 Oct 24 10:10	6°♄55'54	20°15'46	desc. node	14278 Oct 17 01:43	22°♄53'21	
desc. node	14277 Oct 30 04:18	11°♄08'38		evening set	14278 Oct 18 01:07	22°♄45'09	
retrograde	14277 Nov 04 04:36	12°♄17'22		inferior conj	14278 Oct 26 13:04	18°♄33'13	-2°58'34
evening set	14277 Nov 06 07:49	12°♄05'44		minimum elong	14278 Oct 26 05:33	18°♄45'53	2°55'02
inferior conj	14277 Nov 15 05:38	8°♄09'20	-4°40'33	min. Earth dist.	14278 Oct 29 06:11	16°♄44'03	0.55982 AU
minimum elong	14277 Nov 14 19:32	8°♄24'15	4°36'52	morning rise	14278 Nov 03 07:26	13°♄57'25	
min. Earth dist.	14277 Nov 16 19:39	7°♄13'09	0.54790 AU	direct	14278 Nov 08 19:48	12°♄47'27	
morning rise	14277 Nov 23 06:31	4°♄05'49		morning max el	14278 Nov 22 21:37	19°♄56'21	25°42'58
direct	14277 Nov 27 22:48	3°♄18'29			14278 Dec 01 11:29	0°♄	
morning max el	14277 Dec 11 11:24	9°♄57'08	23°58'37	asc. node	14278 Dec 11 09:29	15°♄52'38	
asc. node	14277 Dec 24 12:25	27°♄08'58			14278 Dec 18 13:55	0°♄	
	14277 Dec 26 04:20	0°♄		morning set	14278 Dec 20 09:34	3°♄52'01	
morning set	14278 Jan 04 22:07	19°♄12'31					
	14278 Jan 09 21:09	0°♄		superior conj	14278 Dec 27 03:43	18°♄44'55	1°38'00
superior conj	14278 Jan 11 17:59	4°♄04'48	1°34'35	minimum elong	14278 Dec 27 03:47	18°♄45'15	1°39'02
minimum elong	14278 Jan 11 19:07	4°♄11'01	1°35'27	max. Earth dist.	14278 Dec 28 11:27	21°♄40'30	1.31700 AU
max. Earth dist.	14278 Jan 14 07:24	9°♄36'15	1.32725 AU		14279 Jan 01 07:20	0°♄	
evening rise	14278 Jan 19 08:08	20°♄03'34		evening rise	14279 Jan 03 06:17	4°♄07'30	
	14278 Jan 24 11:14	0°♄		desc. node	14279 Jan 13 00:15	22°♄54'52	
desc. node	14278 Jan 26 03:32	3°♄05'11			14279 Jan 17 04:24	0°♄	



evening max el	14279 Feb 04 16:37	24° $\text{H}$ 18'07	27°31'22	desc. node	14279 Dec 30 21:05	12° $\approx$ 17'24	
	14279 Feb 12 08:05	0° $\text{Y}$			14280 Jan 12 00:51	0° $\text{H}$	
retrograde	14279 Feb 18 14:40	1° $\text{Y}$ 40'28		evening max el	14280 Jan 17 20:48	6° $\text{H}$ 19'55	26°59'07
	14279 Feb 24 13:12	30° $\text{R}$ $\text{H}$		retrograde	14280 Jan 31 20:23	13° $\text{H}$ 33'26	
evening set	14279 Feb 25 11:53	29° $\text{H}$ 25'42		evening set	14280 Feb 07 12:55	11° $\text{H}$ 38'41	
min. Earth dist.	14279 Mar 01 06:07	26° $\text{H}$ 29'15	0.61926 AU	min. Earth dist.	14280 Feb 11 10:58	8° $\text{H}$ 58'30	0.59725 AU
inferior conj	14279 Mar 04 06:49	23° $\text{H}$ 41'03	-1°37'25	inferior conj	14280 Feb 14 15:48	6° $\text{H}$ 23'12	-3°01'32
minimum elong	14279 Mar 04 10:13	23° $\text{H}$ 33'10	1°35'48	minimum elong	14280 Feb 14 22:28	6° $\text{H}$ 09'41	2°58'34
asc. node	14279 Mar 09 06:57	19° $\text{H}$ 39'21		morning rise	14280 Feb 22 11:17	1° $\text{H}$ 40'50	
morning rise	14279 Mar 11 11:28	18° $\text{H}$ 38'20		asc. node	14280 Feb 24 04:23	1° $\text{H}$ 25'35	
direct	14279 Mar 13 16:30	18° $\text{H}$ 16'40		direct	14280 Feb 24 12:03	1° $\text{H}$ 25'11	
morning max el	14279 Mar 20 11:13	21° $\text{H}$ 42'16	17°48'21	morning max el	14280 Mar 03 00:57	5° $\text{H}$ 10'09	18°06'53
	14279 Mar 26 20:11	0° $\text{Y}$		morning set	14280 Mar 18 15:19	29° $\text{H}$ 50'39	
morning set	14279 Apr 05 06:05	16° $\text{Y}$ 06'37			14280 Mar 18 17:19	0° $\text{Y}$	
desc. node	14279 Apr 11 02:25	26° $\text{Y}$ 26'35		desc. node	14280 Mar 27 22:58	16° $\text{Y}$ 59'48	
	14279 Apr 13 03:33	0° $\text{B}$					
superior conj	14279 Apr 16 14:17	5° $\text{B}$ 53'29	-0°42'36	superior conj	14280 Mar 28 11:48	17° $\text{Y}$ 57'10	-0°04'20
minimum elong	14279 Apr 16 10:15	5° $\text{B}$ 36'22	0°42'30	minimum elong	14280 Mar 28 11:27	17° $\text{Y}$ 55'34	0°04'29
max. Earth dist.	14279 Apr 23 14:59	17° $\text{B}$ 30'48	1.43725 AU	behind sun begin	14280 Mar 28 04:00	17° $\text{Y}$ 22'22	
evening rise	14279 Apr 30 22:15	29° $\text{B}$ 05'13		behind sun end	14280 Mar 28 18:53	18° $\text{Y}$ 28'41	
	14279 May 01 12:23	0° $\text{II}$			14280 Apr 04 10:34	0° $\text{B}$	
	14279 May 21 23:25	0° $\text{B}$		max. Earth dist.	14280 Apr 05 02:36	1° $\text{B}$ 07'18	1.41832 AU
evening max el	14279 Jun 01 00:32	12° $\text{B}$ 13'06	21°26'35	evening rise	14280 Apr 10 05:12	9° $\text{B}$ 30'35	
asc. node	14279 Jun 05 04:00	15° $\text{B}$ 43'16			14280 Apr 23 13:43	0° $\text{II}$	
retrograde	14279 Jun 09 21:51	17° $\text{B}$ 24'12		evening max el	14280 May 13 17:12	26° $\text{II}$ 03'51	22°45'18
evening set	14279 Jun 14 08:51	15° $\text{B}$ 35'06			14280 May 18 08:17	0° $\text{B}$	
inferior conj	14279 Jun 19 14:42	9° $\text{B}$ 20'46	3°08'20	asc. node	14280 May 22 01:09	1° $\text{B}$ 45'51	
minimum elong	14279 Jun 19 14:01	9° $\text{B}$ 23'07	3°07'14	retrograde	14280 May 23 18:46	1° $\text{B}$ 59'23	
min. Earth dist.	14279 Jun 19 20:42	8° $\text{B}$ 59'51	0.68840 AU	evening set	14280 May 28 17:00	29° $\text{II}$ 55'03	
morning rise	14279 Jun 24 18:59	3° $\text{B}$ 03'47			14280 May 28 14:40	30° $\text{R}$ $\text{II}$	
direct	14279 Jun 29 20:06	0° $\text{B}$ 52'54		min. Earth dist.	14280 Jun 02 17:29	23° $\text{II}$ 55'58	0.68991 AU
desc. node	14279 Jul 08 02:46	5° $\text{B}$ 07'42		inferior conj	14280 Jun 03 00:26	23° $\text{II}$ 31'47	2°55'15
morning max el	14279 Jul 09 22:14	6° $\text{B}$ 51'24	22°51'45	minimum elong	14280 Jun 02 22:57	23° $\text{II}$ 36'57	2°54'00
	14279 Jul 27 21:24	0° $\text{Q}$		morning rise	14280 Jun 08 04:47	17° $\text{II}$ 21'34	
morning set	14279 Aug 13 01:15	25° $\text{Q}$ 02'33		direct	14280 Jun 12 17:14	15° $\text{II}$ 29'50	
	14279 Aug 16 00:42	0° $\text{M}$		morning max el	14280 Jun 21 13:10	20° $\text{II}$ 36'50	21°26'03
max. Earth dist.	14279 Aug 17 13:57	2° $\text{M}$ 37'55	1.40277 AU	desc. node	14280 Jun 23 23:55	23° $\text{II}$ 13'44	
					14280 Jun 29 11:38	0° $\text{B}$	
superior conj	14279 Aug 25 09:43	16° $\text{M}$ 25'34	-0°58'40		14280 Jul 20 02:10	0° $\text{Q}$	
minimum elong	14279 Aug 25 14:10	16° $\text{M}$ 45'49	0°58'17	morning set	14280 Jul 23 01:58	4° $\text{Q}$ 40'46	
asc. node	14279 Sep 01 04:49	29° $\text{M}$ 05'11		max. Earth dist.	14280 Jul 29 17:42	15° $\text{Q}$ 22'31	1.42477 AU
	14279 Sep 01 16:22	0° $\text{A}$					
evening rise	14279 Sep 04 04:51	4° $\text{A}$ 47'48		superior conj	14280 Aug 06 04:13	27° $\text{Q}$ 51'59	-1°32'55
	14279 Sep 19 15:13	0° $\text{M}$		minimum elong	14280 Aug 06 11:12	28° $\text{Q}$ 22'02	1°32'44
evening max el	14279 Sep 20 03:53	0° $\text{M}$ 32'37	18°28'17		14280 Aug 07 09:51	0° $\text{M}$	
retrograde	14279 Sep 27 23:08	4° $\text{M}$ 29'36		evening rise	14280 Aug 17 10:23	17° $\text{M}$ 52'03	
evening set	14279 Sep 29 22:56	4° $\text{M}$ 14'54		asc. node	14280 Aug 18 01:23	19° $\text{M}$ 00'03	
desc. node	14279 Oct 03 23:10	2° $\text{M}$ 26'54			14280 Aug 24 05:36	0° $\text{A}$	
	14279 Oct 07 08:52	30° $\text{R}$ $\text{A}$		evening max el	14280 Sep 02 14:22	13° $\text{A}$ 21'34	18°06'16
inferior conj	14279 Oct 07 17:45	29° $\text{A}$ 42'33	-1°12'06	retrograde	14280 Sep 09 11:55	16° $\text{A}$ 53'23	
minimum elong	14279 Oct 07 14:56	29° $\text{A}$ 48'06	1°10'33	evening set	14280 Sep 11 18:47	16° $\text{A}$ 30'25	
min. Earth dist.	14279 Oct 10 23:26	27° $\text{A}$ 10'32	0.57838 AU	inferior conj	14280 Sep 18 19:38	11° $\text{A}$ 37'39	0°19'21
morning rise	14279 Oct 15 03:26	24° $\text{A}$ 28'58		minimum elong	14280 Sep 18 20:16	11° $\text{A}$ 36'12	0°19'12
direct	14279 Oct 21 07:06	22° $\text{A}$ 52'13		desc. node	14280 Sep 19 20:41	10° $\text{A}$ 39'59	
	14279 Nov 04 03:36	0° $\text{M}$		min. Earth dist.	14280 Sep 22 01:12	8° $\text{A}$ 41'22	0.60060 AU
morning max el	14279 Nov 04 14:21	0° $\text{M}$ 25'45	27°04'13	morning rise	14280 Sep 25 18:30	5° $\text{A}$ 52'04	
	14279 Nov 25 12:45	0° $\text{J}$		direct	14280 Oct 02 07:45	3° $\text{A}$ 48'46	
asc. node	14279 Nov 28 06:26	5° $\text{J}$ 06'47		morning max el	14280 Oct 16 14:50	11° $\text{A}$ 40'01	27°50'01
morning set	14279 Dec 04 18:50	18° $\text{J}$ 21'44			14280 Oct 31 00:54	0° $\text{M}$	
	14279 Dec 10 02:09	0° $\text{B}$		asc. node	14280 Nov 14 03:16	24° $\text{M}$ 42'29	
					14280 Nov 16 18:01	0° $\text{J}$	
superior conj	14279 Dec 11 15:11	3° $\text{B}$ 26'53	1°35'25	morning set	14280 Nov 18 00:01	2° $\text{J}$ 36'08	
minimum elong	14279 Dec 11 14:13	3° $\text{B}$ 21'28	1°36'26	max. Earth dist.	14280 Nov 24 02:51	15° $\text{J}$ 53'19	1.31204 AU
max. Earth dist.	14279 Dec 11 19:10	3° $\text{B}$ 49'09	1.31186 AU				
evening rise	14279 Dec 18 10:40	18° $\text{B}$ 25'50		superior conj	14280 Nov 25 02:25	18° $\text{J}$ 04'32	1°26'58
	14279 Dec 24 02:42	0° $\approx$		minimum elong	14280 Nov 25 00:38	17° $\text{J}$ 54'34	1°27'48
					14280 Nov 30 11:20	0° $\text{B}$	

evening rise	14280 Dec 01 19:06	2° $\text{S}$ 52'36		evening max el	14281 Dec 11 05:39	27° $\text{S}$ 51'12	24°20'45
	14280 Dec 16 02:21	0° $\text{S}$			14281 Dec 13 16:07	0° $\text{S}$	
desc. node	14280 Dec 16 17:59	1° $\text{S}$ 01'51		retrograde	14281 Dec 24 21:32	4° $\text{S}$ 39'19	
evening max el	14280 Dec 29 17:05	17° $\text{S}$ 28'57	25°53'00	evening set	14281 Dec 30 00:48	3° $\text{S}$ 41'34	
retrograde	14281 Jan 12 15:26	24° $\text{S}$ 31'29		min. Earth dist.	14282 Jan 04 17:20	0° $\text{S}$ 49'16	0.55847 AU
evening set	14281 Jan 18 18:25	23° $\text{S}$ 03'47			14282 Jan 06 01:30	30° $\text{R}$ $\text{S}$	
min. Earth dist.	14281 Jan 23 06:04	20° $\text{S}$ 26'06	0.57604 AU	inferior conj	14282 Jan 06 22:33	29° $\text{S}$ 27'27	-5°33'13
inferior conj	14281 Jan 26 05:37	18° $\text{S}$ 20'35	-4°25'55	minimum elong	14282 Jan 07 05:40	29° $\text{S}$ 16'28	5°31'06
minimum elong	14281 Jan 26 14:33	18° $\text{S}$ 04'53	4°22'33	morning rise	14282 Jan 15 12:28	25° $\text{S}$ 26'49	
morning rise	14281 Feb 03 13:35	13° $\text{S}$ 59'55		direct	14282 Jan 17 22:21	25° $\text{S}$ 11'29	
direct	14281 Feb 05 14:48	13° $\text{S}$ 46'39		asc. node	14282 Jan 27 23:10	29° $\text{S}$ 59'16	
asc. node	14281 Feb 10 01:48	14° $\text{S}$ 53'24			14282 Jan 27 23:28	0° $\text{S}$	
morning max el	14281 Feb 14 07:05	18° $\text{S}$ 01'31	18°46'01	morning max el	14282 Jan 28 01:30	0° $\text{S}$ 04'53	19°47'38
	14281 Feb 22 22:53	0° $\text{S}$		morning set	14282 Feb 14 16:04	28° $\text{S}$ 36'28	
morning set	14281 Mar 02 11:54	14° $\text{S}$ 04'19			14282 Feb 15 08:33	0° $\text{S}$	
	14281 Mar 10 17:29	0° $\text{S}$					
				superior conj	14282 Feb 22 13:00	14° $\text{S}$ 30'25	0°56'16
superior conj	14281 Mar 11 04:54	0° $\text{S}$ 53'46	0°29'13	minimum elong	14282 Feb 22 15:40	14° $\text{S}$ 43'36	0°56'15
minimum elong	14281 Mar 11 06:45	1° $\text{S}$ 02'30	0°29'00	max. Earth dist.	14282 Feb 28 16:13	26° $\text{S}$ 17'52	1.37372 AU
desc. node	14281 Mar 14 19:28	7° $\text{S}$ 34'44		desc. node	14282 Mar 01 15:57	28° $\text{S}$ 07'36	
max. Earth dist.	14281 Mar 18 09:51	14° $\text{S}$ 01'07	1.39632 AU		14282 Mar 02 16:33	0° $\text{S}$	
evening rise	14281 Mar 22 09:12	20° $\text{S}$ 51'45		evening rise	14282 Mar 04 09:30	3° $\text{S}$ 04'06	
	14281 Mar 27 22:35	0° $\text{S}$			14282 Mar 21 00:30	0° $\text{S}$	
	14281 Apr 17 15:50	0° $\text{S}$		evening max el	14282 Apr 08 20:56	23° $\text{S}$ 50'23	25°23'21
evening max el	14281 Apr 26 07:21	9° $\text{S}$ 56'55	24°06'32		14282 Apr 17 03:33	0° $\text{S}$	
retrograde	14281 May 07 12:35	16° $\text{S}$ 31'46		retrograde	14282 Apr 21 02:03	0° $\text{S}$ 54'25	
asc. node	14281 May 08 22:21	16° $\text{S}$ 23'02			14282 Apr 24 17:07	30° $\text{R}$ $\text{S}$	
evening set	14281 May 12 22:21	14° $\text{S}$ 14'36		asc. node	14282 Apr 25 19:40	29° $\text{S}$ 20'26	
min. Earth dist.	14281 May 17 13:46	8° $\text{S}$ 52'02	0.68668 AU	evening set	14282 Apr 26 23:17	28° $\text{S}$ 27'41	
inferior conj	14281 May 18 09:23	7° $\text{S}$ 45'33	2°31'53	min. Earth dist.	14282 May 01 07:19	23° $\text{S}$ 41'20	0.67891 AU
minimum elong	14281 May 18 07:21	7° $\text{S}$ 52'24	2°30'30	inferior conj	14282 May 02 15:33	21° $\text{S}$ 57'04	1°58'00
morning rise	14281 May 23 16:24	1° $\text{S}$ 43'25		minimum elong	14282 May 02 13:24	22° $\text{S}$ 04'01	1°56'37
direct	14281 May 27 16:37	0° $\text{S}$ 12'01		morning rise	14282 May 08 03:56	16° $\text{S}$ 04'24	
morning max el	14281 Jun 04 10:24	4° $\text{S}$ 33'19	20°10'45	direct	14282 May 11 16:37	14° $\text{S}$ 52'53	
desc. node	14281 Jun 10 20:58	12° $\text{S}$ 07'09		morning max el	14282 May 18 15:07	18° $\text{S}$ 39'44	19°09'44
	14281 Jun 23 09:46	0° $\text{S}$			14282 May 27 15:39	0° $\text{S}$	
morning set	14281 Jul 02 07:42	13° $\text{S}$ 31'45		desc. node	14282 May 28 17:53	1° $\text{S}$ 34'33	
max. Earth dist.	14281 Jul 12 04:07	28° $\text{S}$ 57'06	1.44262 AU	greatest brilliancy	14282 May 31 13:16	5° $\text{S}$ 42'54	-0.7m
	14281 Jul 12 19:52	0° $\text{S}$		morning set	14282 Jun 11 11:57	22° $\text{S}$ 24'21	
					14282 Jun 16 09:50	0° $\text{S}$	
superior conj	14281 Jul 17 23:26	8° $\text{S}$ 19'29	-2°00'13	max. Earth dist.	14282 Jun 24 20:33	13° $\text{S}$ 09'49	1.45440 AU
minimum elong	14281 Jul 18 06:14	8° $\text{S}$ 47'20	2°00'39				
evening rise	14281 Jul 30 22:42	0° $\text{S}$ 10'17		superior conj	14282 Jun 27 20:24	17° $\text{S}$ 52'31	-2°13'23
	14281 Jul 30 20:19	0° $\text{S}$		minimum elong	14282 Jun 27 21:56	17° $\text{S}$ 58'35	2°14'24
asc. node	14281 Aug 04 22:00	8° $\text{S}$ 42'38			14282 Jul 05 10:53	0° $\text{S}$	
evening max el	14281 Aug 17 04:31	26° $\text{S}$ 37'56	18°03'29	evening rise	14282 Jul 12 12:42	11° $\text{S}$ 30'18	
retrograde	14281 Aug 23 14:54	29° $\text{S}$ 58'37		asc. node	14282 Jul 22 18:40	28° $\text{S}$ 07'12	
evening set	14281 Aug 26 06:05	29° $\text{S}$ 23'50			14282 Jul 23 23:55	0° $\text{S}$	
inferior conj	14281 Sep 01 15:25	24° $\text{S}$ 12'17	1°29'24	evening max el	14282 Jul 31 18:46	10° $\text{S}$ 11'53	18°18'56
minimum elong	14281 Sep 01 17:38	24° $\text{S}$ 06'31	1°28'28	retrograde	14282 Aug 07 03:45	13° $\text{S}$ 35'24	
min. Earth dist.	14281 Sep 04 12:24	21° $\text{S}$ 13'27	0.62349 AU	evening set	14282 Aug 10 03:36	12° $\text{S}$ 46'07	
desc. node	14281 Sep 06 18:12	19° $\text{S}$ 08'40		inferior conj	14282 Aug 16 01:01	7° $\text{S}$ 17'51	2°18'47
morning rise	14281 Sep 08 02:50	18° $\text{S}$ 04'49		minimum elong	14282 Aug 16 03:25	7° $\text{S}$ 10'52	2°17'41
direct	14281 Sep 14 19:14	15° $\text{S}$ 40'38		min. Earth dist.	14282 Aug 18 09:07	4° $\text{S}$ 35'38	0.64464 AU
morning max el	14281 Sep 28 21:22	23° $\text{S}$ 40'27	27°56'44	morning rise	14282 Aug 22 01:47	0° $\text{S}$ 57'57	
	14281 Oct 04 13:44	0° $\text{S}$			14282 Aug 23 09:58	30° $\text{R}$ $\text{S}$	
	14281 Oct 24 08:44	0° $\text{S}$		desc. node	14282 Aug 24 15:43	29° $\text{S}$ 18'15	
asc. node	14281 Nov 01 00:02	14° $\text{S}$ 33'27		direct	14282 Aug 28 15:20	28° $\text{S}$ 21'41	
morning set	14281 Nov 01 23:03	16° $\text{S}$ 30'17			14282 Sep 03 08:28	0° $\text{S}$	
max. Earth dist.	14281 Nov 07 06:50	27° $\text{S}$ 44'30	1.31767 AU	morning max el	14282 Sep 11 07:32	6° $\text{S}$ 19'32	27°27'30
	14281 Nov 08 07:43	0° $\text{S}$			14282 Sep 29 11:04	0° $\text{S}$	
				morning set	14282 Oct 16 13:27	29° $\text{S}$ 58'12	
superior conj	14281 Nov 09 11:36	2° $\text{S}$ 32'49	1°12'42		14282 Oct 16 13:49	0° $\text{S}$	
minimum elong	14281 Nov 09 09:21	2° $\text{S}$ 20'26	1°13'15	asc. node	14282 Oct 18 20:42	4° $\text{S}$ 34'17	
evening rise	14281 Nov 16 05:44	17° $\text{S}$ 23'19		max. Earth dist.	14282 Oct 21 03:38	9° $\text{S}$ 16'23	1.32872 AU
	14281 Nov 22 08:20	0° $\text{S}$					
desc. node	14281 Dec 03 15:01	18° $\text{S}$ 54'18		superior conj	14282 Oct 24 16:41	16° $\text{S}$ 46'04	0°52'39

minimum elong	14282 Oct 24 14:29	16° $\mathbb{M}$ 34'18	0°52'57	superior conj	14283 Oct 08 15:14	0° $\mathbb{M}$ 37'40	0°27'00
	14282 Oct 30 19:35	0° $\mathbb{A}$		minimum elong	14283 Oct 08 13:48	0° $\mathbb{M}$ 30'18	0°27'09
evening rise	14282 Oct 31 16:42	1° $\mathbb{A}$ 53'10		evening rise	14283 Oct 16 02:05	16° $\mathbb{M}$ 16'41	
	14282 Nov 16 01:54	0° $\mathbb{B}$			14283 Oct 22 22:45	0° $\mathbb{A}$	
desc. node	14282 Nov 20 12:10	5° $\mathbb{B}$ 35'54		evening max el	14283 Nov 04 08:43	18° $\mathbb{A}$ 04'18	21°02'38
evening max el	14282 Nov 22 15:43	7° $\mathbb{B}$ 50'46	22°38'09	desc. node	14283 Nov 07 09:26	20° $\mathbb{A}$ 41'38	
retrograde	14282 Dec 05 14:50	14° $\mathbb{B}$ 16'27		retrograde	14283 Nov 16 01:37	23° $\mathbb{A}$ 53'10	
evening set	14282 Dec 09 10:17	13° $\mathbb{B}$ 44'45		evening set	14283 Nov 18 15:22	23° $\mathbb{A}$ 37'30	
min. Earth dist.	14282 Dec 16 23:52	10° $\mathbb{B}$ 18'59	0.54737 AU	inferior conj	14283 Nov 27 12:45	19° $\mathbb{A}$ 44'26	-5°25'06
inferior conj	14282 Dec 17 21:35	9° $\mathbb{B}$ 48'19	-5°58'51	minimum elong	14283 Nov 27 04:11	19° $\mathbb{A}$ 56'35	5°22'28
minimum elong	14282 Dec 17 21:00	9° $\mathbb{B}$ 49'08	5°57'48	min. Earth dist.	14283 Nov 28 05:38	19° $\mathbb{A}$ 20'30	0.54495 AU
morning rise	14282 Dec 26 08:59	6° $\mathbb{B}$ 00'32		morning rise	14283 Dec 05 17:24	15° $\mathbb{A}$ 52'36	
direct	14282 Dec 29 12:57	5° $\mathbb{B}$ 37'40		direct	14283 Dec 09 20:14	15° $\mathbb{A}$ 16'12	
morning max el	14283 Jan 10 05:26	11° $\mathbb{B}$ 13'40	21°12'19	morning max el	14283 Dec 22 20:29	21° $\mathbb{A}$ 33'42	22°55'35
asc. node	14283 Jan 14 20:29	16° $\mathbb{B}$ 27'53			14283 Dec 30 00:42	0° $\mathbb{B}$	
	14283 Jan 23 08:14	0° $\approx$		asc. node	14284 Jan 01 17:43	4° $\mathbb{B}$ 00'37	
morning set	14283 Jan 30 01:00	13° $\approx$ 19'11		morning set	14284 Jan 14 12:22	28° $\mathbb{B}$ 04'44	
					14284 Jan 15 09:58	0° $\approx$	
superior conj	14283 Feb 06 08:11	28° $\approx$ 36'39	1°16'24	superior conj	14284 Jan 21 11:03	13° $\approx$ 01'57	1°29'48
minimum elong	14283 Feb 06 10:40	28° $\approx$ 49'28	1°16'44	minimum elong	14284 Jan 21 12:46	13° $\approx$ 11'09	1°30'30
	14283 Feb 07 00:21	0° $\mathbb{H}$		max. Earth dist.	14284 Jan 24 19:07	20° $\approx$ 05'12	1.33529 AU
max. Earth dist.	14283 Feb 11 02:19	8° $\mathbb{H}$ 14'03	1.35280 AU	evening rise	14284 Jan 29 10:05	29° $\approx$ 27'15	
evening rise	14283 Feb 15 03:00	15° $\mathbb{H}$ 59'19			14284 Jan 29 16:46	0° $\mathbb{H}$	
desc. node	14283 Feb 16 12:30	18° $\mathbb{H}$ 35'01		desc. node	14284 Feb 03 09:06	8° $\mathbb{H}$ 51'55	
	14283 Feb 22 23:46	0° $\mathbb{Y}$			14284 Feb 16 02:34	0° $\mathbb{Y}$	
	14283 Mar 15 12:25	0° $\mathbb{B}$		evening max el	14284 Mar 04 00:07	21° $\mathbb{Y}$ 12'40	27°14'16
evening max el	14283 Mar 22 10:43	7° $\mathbb{B}$ 39'00	26°28'19	retrograde	14284 Mar 17 12:40	28° $\mathbb{Y}$ 41'42	
retrograde	14283 Apr 04 10:20	15° $\mathbb{B}$ 00'45		evening set	14284 Mar 24 04:41	26° $\mathbb{Y}$ 10'35	
evening set	14283 Apr 10 18:05	12° $\mathbb{B}$ 28'52		min. Earth dist.	14284 Mar 28 01:53	22° $\mathbb{Y}$ 31'56	0.65074 AU
asc. node	14283 Apr 12 17:03	10° $\mathbb{B}$ 40'04		asc. node	14284 Mar 29 14:31	20° $\mathbb{Y}$ 51'01	
min. Earth dist.	14283 Apr 14 20:02	8° $\mathbb{B}$ 17'32	0.66682 AU	inferior conj	14284 Mar 30 11:00	19° $\mathbb{Y}$ 53'53	0°16'15
inferior conj	14283 Apr 16 16:55	6° $\mathbb{B}$ 01'58	1°13'02	minimum elong	14284 Mar 30 10:33	19° $\mathbb{Y}$ 55'08	0°15'49
minimum elong	14283 Apr 16 15:13	6° $\mathbb{B}$ 07'05	1°11'55	transit middle	14284 Mar 30 10:33	19° $\mathbb{Y}$ 55'08	0°15'49
morning rise	14283 Apr 22 13:21	0° $\mathbb{B}$ 20'25		transit begin	14284 Mar 30 10:05	19° $\mathbb{Y}$ 56'26	
	14283 Apr 23 05:15	30° $\mathbb{R}$ $\mathbb{Y}$		transit end	14284 Mar 30 11:01	19° $\mathbb{Y}$ 53'51	
direct	14283 Apr 25 15:28	29° $\mathbb{Y}$ 26'56		morning rise	14284 Apr 05 18:11	14° $\mathbb{Y}$ 25'27	
	14283 Apr 28 02:59	0° $\mathbb{B}$		direct	14284 Apr 08 10:48	13° $\mathbb{Y}$ 47'11	
morning max el	14283 May 02 02:36	2° $\mathbb{B}$ 52'31	18°24'54	morning max el	14284 Apr 14 18:40	17° $\mathbb{Y}$ 04'05	17°56'56
desc. node	14283 May 15 14:42	21° $\mathbb{B}$ 26'58			14284 Apr 24 08:12	0° $\mathbb{B}$	
	14283 May 21 00:55	0° $\mathbb{II}$		desc. node	14284 May 01 11:25	11° $\mathbb{B}$ 37'00	
morning set	14283 May 22 11:02	2° $\mathbb{II}$ 14'58		morning set	14284 May 02 13:57	13° $\mathbb{B}$ 26'23	
					14284 May 12 17:50	0° $\mathbb{II}$	
superior conj	14283 Jun 07 05:04	26° $\mathbb{II}$ 59'19	-2°06'56	superior conj	14284 May 16 18:30	6° $\mathbb{II}$ 25'19	-1°41'50
minimum elong	14283 Jun 06 23:00	26° $\mathbb{II}$ 35'38	2°07'43	minimum elong	14284 May 16 09:31	5° $\mathbb{II}$ 49'40	1°41'54
max. Earth dist.	14283 Jun 07 16:25	27° $\mathbb{II}$ 43'36	1.45894 AU	max. Earth dist.	14284 May 20 12:26	12° $\mathbb{II}$ 19'43	1.45591 AU
	14283 Jun 09 03:23	0° $\mathbb{B}$			14284 May 31 21:54	0° $\mathbb{B}$	
evening rise	14283 Jun 23 02:02	21° $\mathbb{B}$ 49'14		evening rise	14284 Jun 01 19:22	1° $\mathbb{B}$ 22'24	
	14283 Jun 28 07:00	0° $\mathbb{Q}$		greatest brilliancy	14284 Jun 15 20:03	22° $\mathbb{B}$ 33'56	-0.6m
greatest brilliancy	14283 Jul 02 10:51	6° $\mathbb{Q}$ 28'54	-0.8m		14284 Jun 21 02:10	0° $\mathbb{Q}$	
asc. node	14283 Jul 09 15:27	17° $\mathbb{Q}$ 07'25		asc. node	14284 Jun 25 12:20	5° $\mathbb{Q}$ 34'44	
evening max el	14283 Jul 15 06:14	23° $\mathbb{Q}$ 56'12	18°51'49	evening max el	14284 Jun 27 12:48	7° $\mathbb{Q}$ 45'14	19°41'09
retrograde	14283 Jul 21 22:48	27° $\mathbb{Q}$ 35'57		retrograde	14284 Jul 04 20:59	11° $\mathbb{Q}$ 53'32	
evening set	14283 Jul 25 07:39	26° $\mathbb{Q}$ 30'32		evening set	14284 Jul 08 15:23	10° $\mathbb{Q}$ 31'10	
inferior conj	14283 Jul 30 20:45	20° $\mathbb{Q}$ 47'24	2°50'21	inferior conj	14284 Jul 13 23:29	4° $\mathbb{Q}$ 34'50	3°07'03
minimum elong	14283 Jul 30 22:33	20° $\mathbb{Q}$ 41'42	2°49'18	minimum elong	14284 Jul 14 00:21	4° $\mathbb{Q}$ 31'54	3°06'02
min. Earth dist.	14283 Aug 01 14:32	18° $\mathbb{Q}$ 35'53	0.66250 AU	min. Earth dist.	14284 Jul 15 03:00	3° $\mathbb{Q}$ 02'55	0.67617 AU
morning rise	14283 Aug 05 12:40	14° $\mathbb{Q}$ 22'34			14284 Jul 17 13:45	30° $\mathbb{R}$ $\mathbb{B}$	
direct	14283 Aug 11 18:58	11° $\mathbb{Q}$ 43'29		morning rise	14284 Jul 19 08:52	28° $\mathbb{B}$ 10'25	
desc. node	14283 Aug 11 13:13	11° $\mathbb{Q}$ 43'42		direct	14284 Jul 25 05:02	25° $\mathbb{B}$ 36'58	
morning max el	14283 Aug 24 18:56	19° $\mathbb{Q}$ 26'30	26°29'18	desc. node	14284 Jul 28 10:38	26° $\mathbb{B}$ 16'28	
	14283 Sep 02 19:00	0° $\mathbb{P}$			14284 Aug 03 05:26	0° $\mathbb{Q}$	
	14283 Sep 22 12:32	0° $\mathbb{Q}$		morning max el	14284 Aug 06 05:51	2° $\mathbb{Q}$ 49'50	25°11'18
morning set	14283 Sep 29 16:05	12° $\mathbb{Q}$ 52'24			14284 Aug 26 22:39	0° $\mathbb{P}$	
max. Earth dist.	14283 Oct 03 14:47	20° $\mathbb{Q}$ 28'30	1.34504 AU	morning set	14284 Sep 11 03:08	25° $\mathbb{P}$ 04'12	
asc. node	14283 Oct 05 17:19	24° $\mathbb{Q}$ 40'26			14284 Sep 13 20:22	0° $\mathbb{Q}$	
	14283 Oct 08 07:56	0° $\mathbb{M}$					

max. Earth dist.	14284 Sep 14 16:49	1°♄34'29	1.36577 AU		14285 Jul 30 22:50	0°♄	
					14285 Aug 19 22:21	0°♄	
superior conj	14284 Sep 21 04:20	14°♄00'53	-0°03'43	morning set	14285 Aug 23 17:59	6°♄21'43	
minimum elong	14284 Sep 21 04:33	14°♄01'58	0°03'31	max. Earth dist.	14285 Aug 27 14:36	13°♄01'06	1.38915 AU
behind sun begin	14284 Sep 20 22:15	13°♄30'48					
behind sun end	14284 Sep 21 10:51	14°♄33'11		superior conj	14285 Sep 04 04:16	26°♄46'28	-0°38'06
asc. node	14284 Sep 21 13:55	14°♄48'23		minimum elong	14285 Sep 04 07:01	26°♄59'22	0°37'47
evening rise	14284 Sep 29 07:41	0°♄28'28			14285 Sep 05 21:12	0°♄	
	14284 Sep 29 02:05	0°♄		asc. node	14285 Sep 08 10:27	4°♄54'03	
evening max el	14284 Oct 16 15:30	29°♄01'05	19°45'29	evening rise	14285 Sep 13 06:45	14°♄21'02	
	14284 Oct 17 16:19	0°♄			14285 Sep 21 16:19	0°♄	
desc. node	14284 Oct 24 06:48	3°♄45'31		evening max el	14285 Sep 29 12:02	10°♄47'15	18°50'16
retrograde	14284 Oct 26 17:14	4°♄02'39		retrograde	14285 Oct 08 00:25	15°♄04'14	
evening set	14284 Oct 28 15:47	3°♄52'18		evening set	14285 Oct 09 21:44	14°♄52'24	
inferior conj	14284 Nov 06 10:50	29°♄50'26	-3°59'45	desc. node	14285 Oct 11 04:14	14°♄31'50	
minimum elong	14284 Nov 06 01:13	0°♄05'22	3°55'47	inferior conj	14285 Oct 18 02:55	10°♄32'27	-2°12'27
	14284 Nov 06 04:41	30°♄		minimum elong	14285 Oct 17 21:24	10°♄42'21	2°09'42
min. Earth dist.	14284 Nov 08 14:06	28°♄30'51	0.55196 AU	min. Earth dist.	14285 Oct 21 03:21	8°♄23'01	0.56711 AU
morning rise	14284 Nov 14 09:00	25°♄34'15		morning rise	14285 Oct 25 17:54	5°♄40'29	
direct	14284 Nov 19 10:06	24°♄37'58		direct	14285 Oct 31 13:40	4°♄19'03	
	14284 Dec 01 13:29	0°♄		morning max el	14285 Nov 14 18:20	11°♄39'31	26°21'06
morning max el	14284 Dec 03 05:59	1°♄31'03	24°44'38		14285 Nov 28 22:59	0°♄	
asc. node	14284 Dec 18 14:52	22°♄22'08		asc. node	14285 Dec 05 11:52	11°♄19'45	
	14284 Dec 22 18:30	0°♄		morning set	14285 Dec 13 11:01	27°♄23'24	
morning set	14284 Dec 29 00:18	12°♄47'46			14285 Dec 14 15:59	0°♄	
superior conj	14285 Jan 04 18:57	27°♄38'45	1°36'46	superior conj	14285 Dec 20 05:39	12°♄20'23	1°37'37
minimum elong	14285 Jan 04 19:38	27°♄42'31	1°37'44	minimum elong	14285 Dec 20 05:16	12°♄18'12	1°38'40
	14285 Jan 05 20:44	0°♄		max. Earth dist.	14285 Dec 21 01:13	14°♄09'20	1.31419 AU
max. Earth dist.	14285 Jan 06 19:20	2°♄03'04	1.32225 AU	evening rise	14285 Dec 27 04:39	27°♄31'08	
evening rise	14285 Jan 12 03:33	13°♄20'10			14285 Dec 28 09:10	0°♄	
desc. node	14285 Jan 20 05:46	28°♄53'13		desc. node	14286 Jan 07 02:31	18°♄32'23	
	14285 Jan 20 20:43	0°♄			14286 Jan 14 04:47	0°♄	
	14285 Feb 10 08:11	0°♄		evening max el	14286 Jan 27 19:54	16°♄51'05	27°22'03
evening max el	14285 Feb 14 11:55	4°♄20'42	27°34'08	retrograde	14286 Feb 10 19:16	24°♄09'57	
retrograde	14285 Feb 28 08:07	11°♄47'51		evening set	14286 Feb 17 15:10	22°♄03'07	
evening set	14285 Mar 07 04:42	9°♄24'55		min. Earth dist.	14286 Feb 21 10:21	19°♄14'35	0.60990 AU
min. Earth dist.	14285 Mar 10 23:06	6°♄14'42	0.63138 AU	inferior conj	14286 Feb 24 13:29	16°♄29'58	-2°12'23
inferior conj	14285 Mar 13 18:58	3°♄26'00	-0°52'39	minimum elong	14286 Feb 24 18:15	16°♄19'29	2°10'09
minimum elong	14285 Mar 13 20:42	3°♄21'42	0°51'54	asc. node	14286 Mar 03 09:29	11°♄47'38	
asc. node	14285 Mar 16 12:01	0°♄52'11		morning rise	14286 Mar 04 00:28	11°♄35'18	
	14285 Mar 17 13:33	30°♄		direct	14286 Mar 06 03:10	11°♄16'42	
morning rise	14285 Mar 20 15:18	28°♄13'03		morning max el	14286 Mar 13 04:39	14°♄49'37	17°53'47
direct	14285 Mar 22 23:52	27°♄46'28			14286 Mar 23 15:59	0°♄	
	14285 Mar 28 06:57	0°♄		morning set	14286 Mar 28 19:14	9°♄12'25	
morning max el	14285 Mar 29 12:26	1°♄06'08	17°46'17	desc. node	14286 Apr 05 04:35	22°♄29'57	
morning set	14285 Apr 14 18:39	25°♄51'23					
	14285 Apr 17 04:16	0°♄		superior conj	14286 Apr 08 11:14	28°♄13'46	-0°25'58
desc. node	14285 Apr 18 08:02	1°♄59'21		minimum elong	14286 Apr 08 08:53	28°♄03'40	0°25'59
					14286 Apr 09 11:54	0°♄	
superior conj	14285 Apr 27 02:52	16°♄46'05	-1°05'22	max. Earth dist.	14286 Apr 15 20:51	10°♄41'31	1.42972 AU
minimum elong	14285 Apr 26 20:25	16°♄19'36	1°05'10	evening rise	14286 Apr 22 03:03	20°♄44'37	
max. Earth dist.	14285 May 03 06:22	26°♄43'07	1.44581 AU		14286 Apr 28 02:46	0°♄	
	14285 May 05 08:01	0°♄			14286 May 19 12:03	0°♄	
evening rise	14285 May 12 06:20	10°♄47'13		evening max el	14286 May 24 08:51	5°♄26'34	21°59'27
	14285 May 25 01:44	0°♄		asc. node	14286 May 30 06:24	10°♄01'49	
evening max el	14285 Jun 10 13:31	21°♄35'27	20°44'53	retrograde	14286 Jun 02 17:57	10°♄56'19	
asc. node	14285 Jun 12 09:19	23°♄17'30		evening set	14286 Jun 07 09:41	9°♄00'40	
retrograde	14285 Jun 18 19:59	26°♄21'52		inferior conj	14286 Jun 12 15:57	2°♄42'29	3°04'02
evening set	14285 Jun 23 00:39	24°♄42'31		minimum elong	14286 Jun 12 14:55	2°♄46'08	3°02'53
inferior conj	14285 Jun 28 06:36	18°♄34'24	3°11'07	min. Earth dist.	14286 Jun 12 16:28	2°♄40'42	0.68965 AU
minimum elong	14285 Jun 28 06:28	18°♄34'52	3°10'04		14286 Jun 14 15:31	30°♄	
min. Earth dist.	14285 Jun 28 20:22	17°♄46'51	0.68528 AU	morning rise	14286 Jun 17 19:57	26°♄28'14	
morning rise	14285 Jul 03 12:00	12°♄13'59		direct	14286 Jun 22 15:47	24°♄24'56	
direct	14285 Jul 08 20:23	9°♄53'10		morning max el	14286 Jul 02 04:34	0°♄00'57	22°14'22
desc. node	14285 Jul 15 07:58	12°♄30'58		desc. node	14286 Jul 02 05:09	0°♄02'26	
morning max el	14285 Jul 19 16:17	16°♄21'26	23°43'12		14286 Jul 02 04:11	0°♄	

	14286 Jul 24 17:02	0°♎		desc. node	14287 Jun 19 02:16	18°♊30'08	
morning set	14286 Aug 04 08:46	16°♎35'58			14287 Jun 27 17:09	0°♊	
max. Earth dist.	14286 Aug 09 15:10	25°♎15'29	1.41254 AU	morning set	14287 Jul 14 24:00	25°♊49'52	
	14286 Aug 12 10:24	0°♎			14287 Jul 17 15:54	0°♎	
				max. Earth dist.	14287 Jul 22 22:17	8°♎24'19	1.43304 AU
superior conj	14286 Aug 17 10:48	8°♎44'48	-1°13'36				
minimum elong	14286 Aug 17 16:28	9°♎09'59	1°13'16	superior conj	14287 Jul 29 19:36	19°♎46'09	-1°45'45
asc. node	14286 Aug 26 07:00	24°♎54'02		minimum elong	14287 Jul 30 03:01	20°♎17'23	1°45'47
evening rise	14286 Aug 27 19:53	27°♎46'00			14287 Aug 04 19:03	0°♎	
	14286 Aug 29 00:39	0°♎		evening rise	14287 Aug 10 18:42	10°♎32'13	
evening max el	14286 Sep 12 18:39	23°♎16'07	18°16'29	asc. node	14287 Aug 13 03:35	14°♎44'17	
retrograde	14286 Sep 20 03:05	27°♎00'20			14287 Aug 22 06:51	0°♎	
evening set	14286 Sep 22 05:49	26°♎42'27		evening max el	14287 Aug 27 07:05	6°♎17'34	18°02'47
desc. node	14286 Sep 28 01:42	23°♎21'24		retrograde	14287 Sep 02 22:39	9°♎43'10	
inferior conj	14286 Sep 29 16:48	22°♎01'07	-0°30'52	evening set	14287 Sep 05 08:59	9°♎15'31	
minimum elong	14286 Sep 29 15:41	22°♎03'28	0°30'08	inferior conj	14287 Sep 12 02:48	4°♎14'08	0°51'42
min. Earth dist.	14286 Oct 02 23:43	19°♎16'28	0.58764 AU	minimum elong	14287 Sep 12 04:18	4°♎10'28	0°51'08
morning rise	14286 Oct 06 22:08	16°♎33'13		desc. node	14287 Sep 14 23:11	1°♎28'39	
direct	14286 Oct 13 06:50	14°♎44'52		min. Earth dist.	14287 Sep 15 05:18	1°♎14'26	0.61036 AU
morning max el	14286 Oct 27 14:10	22°♎25'53	27°28'25		14287 Sep 16 14:53	30°♎	
	14286 Nov 03 07:21	0°♎		morning rise	14287 Sep 18 20:45	28°♎17'56	
	14286 Nov 21 23:44	0°♎		direct	14287 Sep 25 11:56	26°♎05'14	
asc. node	14286 Nov 22 08:46	0°♎43'52			14287 Oct 05 03:25	0°♎	
morning set	14286 Nov 27 18:45	11°♎46'54		morning max el	14287 Oct 09 17:39	4°♎00'52	27°57'46
					14287 Oct 29 00:46	0°♎	
superior conj	14286 Dec 04 17:14	27°♎00'56	1°32'33	asc. node	14287 Nov 09 05:33	20°♎27'08	
minimum elong	14286 Dec 04 15:53	26°♎53'23	1°33'30	morning set	14287 Nov 11 21:38	25°♎53'56	
max. Earth dist.	14286 Dec 04 09:29	26°♎17'37	1.31133 AU		14287 Nov 13 20:24	0°♎	
	14286 Dec 06 01:15	0°♎		max. Earth dist.	14287 Nov 17 16:21	8°♎19'09	1.31377 AU
evening rise	14286 Dec 11 11:01	11°♎53'48					
	14286 Dec 20 13:08	0°♎		superior conj	14287 Nov 19 03:51	11°♎35'34	1°21'39
desc. node	14286 Dec 24 23:22	7°♎40'11		minimum elong	14287 Nov 19 01:48	11°♎24'15	1°22'21
evening max el	14287 Jan 09 21:10	28°♎31'32	26°34'57	evening rise	14287 Nov 25 20:39	26°♎23'23	
	14287 Jan 11 12:20	0°♎			14287 Nov 27 13:10	0°♎	
retrograde	14287 Jan 23 20:20	5°♎39'40		desc. node	14287 Dec 11 20:20	26°♎05'04	
evening set	14287 Jan 30 08:22	3°♎56'01			14287 Dec 14 13:52	0°♎	
min. Earth dist.	14287 Feb 03 10:52	1°♎18'48	0.58800 AU	evening max el	14287 Dec 22 13:51	9°♎19'06	25°16'08
	14287 Feb 05 04:41	30°♎		retrograde	14288 Jan 05 09:56	16°♎16'04	
inferior conj	14287 Feb 06 14:44	28°♎54'31	-3°38'06	evening set	14288 Jan 11 04:24	15°♎00'43	
minimum elong	14287 Feb 06 22:37	28°♎39'27	3°34'46	min. Earth dist.	14288 Jan 16 01:59	12°♎19'26	0.56801 AU
morning rise	14287 Feb 14 16:00	24°♎21'03		inferior conj	14288 Jan 18 19:42	10°♎30'58	-4°57'50
direct	14287 Feb 16 16:22	24°♎06'46		minimum elong	14288 Jan 19 04:35	10°♎16'17	4°54'51
asc. node	14287 Feb 18 06:56	24°♎16'14		morning rise	14288 Jan 27 07:17	6°♎19'36	
morning max el	14287 Feb 24 15:36	28°♎03'08	18°20'52	direct	14288 Jan 29 11:08	6°♎06'00	
	14287 Feb 26 10:55	0°♎		asc. node	14288 Feb 05 04:19	8°♎27'33	
morning set	14287 Mar 12 09:52	23°♎11'04		morning max el	14288 Feb 07 17:17	10°♎35'47	19°09'24
	14287 Mar 15 23:54	0°♎			14288 Feb 20 12:58	0°♎	
				morning set	14288 Feb 24 10:06	7°♎34'05	
superior conj	14287 Mar 21 17:38	10°♎41'32	0°10'39				
minimum elong	14287 Mar 21 18:24	10°♎45'03	0°10'26	superior conj	14288 Mar 03 17:43	23°♎57'15	0°41'31
behind sun begin	14287 Mar 21 12:49	10°♎19'33		minimum elong	14288 Mar 03 20:04	24°♎08'31	0°41'20
behind sun end	14287 Mar 21 23:59	11°♎10'29			14288 Mar 06 22:14	0°♎	
desc. node	14287 Mar 23 01:05	13°♎04'19		desc. node	14288 Mar 08 21:37	3°♎39'03	
max. Earth dist.	14287 Mar 29 06:57	24°♎02'19	1.40925 AU	max. Earth dist.	14288 Mar 10 13:33	6°♎40'07	1.38667 AU
	14287 Apr 01 20:04	0°♎		evening rise	14288 Mar 14 07:45	13°♎17'32	
evening rise	14287 Apr 02 18:49	1°♎33'46			14288 Mar 24 12:32	0°♎	
	14287 Apr 21 11:37	0°♎			14288 Apr 15 13:05	0°♎	
evening max el	14287 May 07 00:15	19°♎18'25	23°19'53	evening max el	14288 Apr 18 13:49	3°♎11'22	24°40'00
asc. node	14287 May 17 03:34	25°♎30'11		retrograde	14288 Apr 30 05:40	10°♎00'11	
retrograde	14287 May 17 13:33	25°♎30'57		asc. node	14288 May 03 00:49	9°♎26'11	
evening set	14287 May 22 16:48	23°♎20'41		evening set	14288 May 05 20:30	7°♎38'10	
min. Earth dist.	14287 May 27 13:11	17°♎37'23	0.68919 AU	min. Earth dist.	14288 May 10 08:29	2°♎31'19	0.68398 AU
inferior conj	14287 May 28 01:34	16°♎54'42	2°46'34	inferior conj	14288 May 11 09:33	1°♎07'46	2°18'48
minimum elong	14287 May 27 23:48	17°♎00'45	2°45'15	minimum elong	14288 May 11 07:26	1°♎14'53	2°17'24
morning rise	14287 Jun 02 06:45	10°♎48'02			14288 May 12 06:02	30°♎	
direct	14287 Jun 06 13:59	9°♎04'53		morning rise	14288 May 16 18:34	25°♎09'43	
morning max el	14287 Jun 14 21:55	13°♎50'44	20°52'29	direct	14288 May 20 13:42	23°♎47'07	

morning max el	14288 May 27 22:27	27° $\text{♄}$ 52'11	19°42'53	desc. node	14289 May 22 20:11	27° $\text{♄}$ 18'41	
	14288 May 29 22:44	0° $\text{♄}$			14289 May 24 14:50	0° $\text{♄}$	
desc. node	14288 Jun 04 23:17	7° $\text{♄}$ 39'14		greatest brilliancy	14289 May 25 03:28	0° $\text{♄}$ 48'12	-0.8m
greatest brilliancy	14288 Jun 09 18:10	14° $\text{♄}$ 28'02	-0.6m	morning set	14289 Jun 02 12:40	13° $\text{♄}$ 46'04	
	14288 Jun 20 02:47	0° $\text{♄}$			14289 Jun 12 22:55	0° $\text{♄}$	
morning set	14288 Jun 23 02:24	4° $\text{♄}$ 34'02		max. Earth dist.	14289 Jun 17 05:14	6° $\text{♄}$ 39'08	1.45720 AU
max. Earth dist.	14288 Jul 04 11:32	22° $\text{♄}$ 16'59	1.44843 AU				
				superior conj	14289 Jun 18 18:46	9° $\text{♄}$ 05'55	-2°13'11
superior conj	14288 Jul 09 04:41	29° $\text{♄}$ 47'54	-2°07'58	minimum elong	14289 Jun 18 16:55	8° $\text{♄}$ 58'43	2°14'13
minimum elong	14288 Jul 09 09:54	0° $\text{♄}$ 08'53	2°08'42		14289 Jul 01 23:37	0° $\text{♄}$	
	14288 Jul 09 07:41	0° $\text{♄}$		evening rise	14289 Jul 04 01:39	3° $\text{♄}$ 20'48	
evening rise	14288 Jul 22 22:06	22° $\text{♄}$ 26'51		asc. node	14289 Jul 16 20:56	23° $\text{♄}$ 35'24	
	14288 Jul 27 09:43	0° $\text{♄}$			14289 Jul 21 11:50	0° $\text{♄}$	
asc. node	14288 Jul 30 00:13	4° $\text{♄}$ 19'49		evening max el	14289 Jul 24 10:59	3° $\text{♄}$ 21'23	18°30'52
evening max el	14288 Aug 09 21:35	19° $\text{♄}$ 41'46	18°07'53	retrograde	14289 Jul 30 22:17	6° $\text{♄}$ 50'18	
retrograde	14288 Aug 16 06:26	23° $\text{♄}$ 02'25		evening set	14289 Aug 03 01:50	5° $\text{♄}$ 54'30	
evening set	14288 Aug 19 01:08	22° $\text{♄}$ 21'53		inferior conj	14289 Aug 08 19:19	0° $\text{♄}$ 19'57	2°34'09
inferior conj	14288 Aug 25 04:57	17° $\text{♄}$ 02'56	1°52'44	minimum elong	14289 Aug 08 21:31	0° $\text{♄}$ 13'16	2°33'02
minimum elong	14288 Aug 25 07:22	16° $\text{♄}$ 56'18	1°51'40		14289 Aug 09 01:54	30° $\text{♄}$	
min. Earth dist.	14288 Aug 27 20:46	14° $\text{♄}$ 08'56	0.63271 AU	min. Earth dist.	14289 Aug 10 21:30	27° $\text{♄}$ 49'02	0.65270 AU
morning rise	14288 Aug 31 11:36	10° $\text{♄}$ 48'47		morning rise	14289 Aug 14 16:02	23° $\text{♄}$ 57'04	
desc. node	14288 Aug 31 20:44	10° $\text{♄}$ 31'58		desc. node	14289 Aug 18 18:15	21° $\text{♄}$ 38'36	
direct	14288 Sep 07 03:16	8° $\text{♄}$ 18'18		direct	14289 Aug 21 03:03	21° $\text{♄}$ 18'07	
morning max el	14288 Sep 21 02:17	16° $\text{♄}$ 19'40	27°48'28	morning max el	14289 Sep 03 13:11	29° $\text{♄}$ 12'05	27°05'41
	14288 Oct 02 09:26	0° $\text{♄}$			14289 Sep 04 07:52	0° $\text{♄}$	
	14288 Oct 20 18:32	0° $\text{♄}$			14289 Sep 26 06:28	0° $\text{♄}$	
morning set	14288 Oct 25 17:21	9° $\text{♄}$ 37'52		morning set	14289 Oct 09 03:09	22° $\text{♄}$ 52'23	
asc. node	14288 Oct 26 02:16	10° $\text{♄}$ 22'52		asc. node	14289 Oct 12 22:56	0° $\text{♄}$ 26'32	
max. Earth dist.	14288 Oct 30 17:40	20° $\text{♄}$ 02'35	1.32163 AU		14289 Oct 12 17:41	0° $\text{♄}$	
				max. Earth dist.	14289 Oct 13 10:11	1° $\text{♄}$ 23'37	1.33501 AU
superior conj	14288 Nov 02 11:32	25° $\text{♄}$ 57'58	1°04'55				
minimum elong	14288 Nov 02 09:14	25° $\text{♄}$ 45'26	1°05'21	superior conj	14289 Oct 17 14:08	10° $\text{♄}$ 02'44	0°42'26
	14288 Nov 04 07:48	0° $\text{♄}$		minimum elong	14289 Oct 17 12:11	9° $\text{♄}$ 52'21	0°42'40
evening rise	14288 Nov 09 07:37	10° $\text{♄}$ 53'58		evening rise	14289 Oct 24 18:08	25° $\text{♄}$ 21'20	
	14288 Nov 18 22:10	0° $\text{♄}$			14289 Oct 26 23:15	0° $\text{♄}$	
desc. node	14288 Nov 27 17:25	13° $\text{♄}$ 30'11		evening max el	14289 Nov 14 12:01	29° $\text{♄}$ 27'49	21°55'51
evening max el	14288 Dec 03 00:07	19° $\text{♄}$ 26'47	23°37'18	desc. node	14289 Nov 14 14:36	29° $\text{♄}$ 34'08	
retrograde	14288 Dec 16 10:47	26° $\text{♄}$ 07'44			14289 Nov 15 01:26	0° $\text{♄}$	
evening set	14288 Dec 21 01:01	25° $\text{♄}$ 21'52		retrograde	14289 Nov 27 00:08	5° $\text{♄}$ 39'24	
min. Earth dist.	14288 Dec 27 10:52	22° $\text{♄}$ 17'28	0.55278 AU	evening set	14289 Nov 30 05:32	5° $\text{♄}$ 16'12	
inferior conj	14288 Dec 29 04:14	21° $\text{♄}$ 16'32	-5°50'36	inferior conj	14289 Dec 08 22:15	1° $\text{♄}$ 23'08	-5°52'05
minimum elong	14288 Dec 29 08:41	21° $\text{♄}$ 09'57	5°49'12	minimum elong	14289 Dec 08 17:44	1° $\text{♄}$ 29'27	5°50'38
morning rise	14289 Jan 06 18:04	17° $\text{♄}$ 22'55		min. Earth dist.	14289 Dec 08 16:58	1° $\text{♄}$ 30'32	0.54517 AU
direct	14289 Jan 09 10:17	17° $\text{♄}$ 05'19			14289 Dec 11 10:45	30° $\text{♄}$	
morning max el	14289 Jan 20 05:49	22° $\text{♄}$ 16'43	20°20'58	morning rise	14289 Dec 17 06:49	27° $\text{♄}$ 35'41	
asc. node	14289 Jan 22 01:41	24° $\text{♄}$ 10'41		direct	14289 Dec 20 20:18	27° $\text{♄}$ 07'43	
	14289 Jan 26 13:12	0° $\text{♄}$			14289 Dec 29 09:38	0° $\text{♄}$	
morning set	14289 Feb 07 16:35	22° $\text{♄}$ 11'23		morning max el	14290 Jan 02 03:42	3° $\text{♄}$ 02'40	21°54'29
	14289 Feb 11 11:28	0° $\text{♄}$		asc. node	14290 Jan 08 22:59	11° $\text{♄}$ 08'31	
					14290 Jan 19 18:14	0° $\text{♄}$	
superior conj	14289 Feb 15 07:00	7° $\text{♄}$ 47'53	1°05'38	morning set	14290 Jan 23 02:46	6° $\text{♄}$ 55'40	
minimum elong	14289 Feb 15 09:41	8° $\text{♄}$ 01'24	1°05'45				
max. Earth dist.	14289 Feb 20 20:29	18° $\text{♄}$ 43'48	1.36447 AU	superior conj	14290 Jan 30 05:46	22° $\text{♄}$ 03'02	1°22'53
desc. node	14289 Feb 23 18:09	24° $\text{♄}$ 10'13		minimum elong	14290 Jan 30 07:59	22° $\text{♄}$ 14'38	1°23'23
evening rise	14289 Feb 24 15:47	25° $\text{♄}$ 49'14			14290 Feb 03 02:03	0° $\text{♄}$	
	14289 Feb 26 23:39	0° $\text{♄}$		max. Earth dist.	14290 Feb 03 08:57	0° $\text{♄}$ 34'56	1.34485 AU
	14289 Mar 18 00:42	0° $\text{♄}$		evening rise	14290 Feb 07 15:29	8° $\text{♄}$ 59'37	
evening max el	14289 Apr 01 03:18	17° $\text{♄}$ 03'20	25°52'50	desc. node	14290 Feb 10 14:42	14° $\text{♄}$ 33'48	
retrograde	14289 Apr 13 17:18	24° $\text{♄}$ 17'13			14290 Feb 19 13:15	0° $\text{♄}$	
evening set	14289 Apr 19 19:06	21° $\text{♄}$ 47'35			14290 Mar 13 21:55	0° $\text{♄}$	
asc. node	14289 Apr 19 22:11	21° $\text{♄}$ 41'06		evening max el	14290 Mar 14 17:11	0° $\text{♄}$ 47'31	26°50'45
min. Earth dist.	14289 Apr 24 00:20	17° $\text{♄}$ 16'14	0.67424 AU	retrograde	14290 Mar 27 23:16	8° $\text{♄}$ 13'43	
inferior conj	14289 Apr 25 14:00	15° $\text{♄}$ 17'30	1°40'21	evening set	14290 Apr 03 10:42	5° $\text{♄}$ 41'39	
minimum elong	14289 Apr 25 11:58	15° $\text{♄}$ 23'56	1°39'02	asc. node	14290 Apr 06 19:38	2° $\text{♄}$ 26'14	
morning rise	14289 May 01 05:29	9° $\text{♄}$ 29'21		min. Earth dist.	14290 Apr 07 10:32	1° $\text{♄}$ 44'18	0.66038 AU
direct	14289 May 04 13:26	8° $\text{♄}$ 25'58			14290 Apr 08 22:20	30° $\text{♄}$	
morning max el	14289 May 11 06:18	12° $\text{♄}$ 02'35	18°48'35	inferior conj	14290 Apr 09 12:37	29° $\text{♄}$ 18'03	0°50'28

minimum elong	14290 Apr 09 11:21	29° $\Upsilon$ 21'47	0°49'34	minimum elong	14291 Mar 24 03:09	13° $\Upsilon$ 02'23	0°11'27
morning rise	14290 Apr 15 13:17	23° $\Upsilon$ 41'32		transit middle	14291 Mar 24 03:09	13° $\Upsilon$ 02'23	0°11'27
direct	14290 Apr 18 11:10	22° $\Upsilon$ 54'54		transit begin	14291 Mar 24 01:00	13° $\Upsilon$ 08'09	
morning max el	14290 Apr 24 19:59	26° $\Upsilon$ 15'35	18°10'50	transit end	14291 Mar 24 05:19	12° $\Upsilon$ 56'38	
	14290 Apr 28 03:15	0° $\text{B}$		asc. node	14291 Mar 24 17:05	12° $\Upsilon$ 25'34	
desc. node	14290 May 09 16:57	17° $\text{B}$ 19'33		morning rise	14291 Mar 30 15:17	7° $\Upsilon$ 40'53	
morning set	14290 May 13 23:19	24° $\text{B}$ 10'40		direct	14291 Apr 02 04:23	7° $\Upsilon$ 07'53	
	14290 May 17 14:24	0° $\text{II}$		morning max el	14291 Apr 08 13:06	10° $\Upsilon$ 24'25	17°50'13
					14291 Apr 22 01:02	0° $\text{B}$	
superior conj	14290 May 29 03:18	18° $\text{II}$ 15'32	-1°58'14	morning set	14291 Apr 25 13:54	5° $\text{B}$ 56'11	
minimum elong	14290 May 28 19:09	17° $\text{II}$ 43'38	1°58'42	desc. node	14291 Apr 26 13:38	7° $\text{B}$ 35'56	
max. Earth dist.	14290 May 31 01:22	21° $\text{II}$ 15'40	1.45859 AU				
	14290 Jun 05 16:01	0° $\text{B}$		superior conj	14291 May 08 23:31	28° $\text{B}$ 01'46	-1°27'14
evening rise	14290 Jun 14 05:16	13° $\text{B}$ 16'47		minimum elong	14291 May 08 15:09	27° $\text{B}$ 28'10	1°27'05
	14290 Jun 25 01:44	0° $\Omega$			14291 May 10 05:02	0° $\text{II}$	
greatest brilliancy	14290 Jun 25 18:34	1° $\Omega$ 03'32	-0.7m	max. Earth dist.	14291 May 13 21:18	5° $\text{II}$ 50'23	1.45254 AU
asc. node	14290 Jul 03 17:46	12° $\Omega$ 23'05		evening rise	14291 May 24 17:55	22° $\text{II}$ 41'44	
evening max el	14290 Jul 07 20:41	17° $\Omega$ 08'53	19°10'55		14291 May 29 13:07	0° $\text{B}$	
retrograde	14290 Jul 14 18:51	20° $\Omega$ 58'57		greatest brilliancy	14291 Jun 08 14:07	14° $\text{B}$ 55'35	-0.6m
evening set	14290 Jul 18 07:44	19° $\Omega$ 46'23			14291 Jun 20 02:05	0° $\Omega$	
inferior conj	14290 Jul 23 18:21	13° $\Omega$ 57'42	2°59'03	asc. node	14291 Jun 20 14:41	0° $\Omega$ 33'07	
minimum elong	14290 Jul 23 19:48	13° $\Omega$ 53'03	2°58'01	evening max el	14291 Jun 21 00:51	0° $\Omega$ 58'58	20°06'37
min. Earth dist.	14290 Jul 25 06:04	12° $\Omega$ 02'09	0.66895 AU	retrograde	14291 Jun 28 17:35	5° $\Omega$ 22'05	
morning rise	14290 Jul 29 07:13	7° $\Omega$ 32'42		evening set	14291 Jul 02 16:23	3° $\Omega$ 52'14	
direct	14290 Aug 04 09:38	4° $\Omega$ 54'54			14291 Jul 06 08:23	30° $\text{R}$ $\text{B}$	
desc. node	14290 Aug 05 15:43	5° $\Omega$ 00'49		inferior conj	14291 Jul 07 23:13	27° $\text{B}$ 50'40	3°10'09
morning max el	14290 Aug 17 00:14	12° $\Omega$ 26'25	25°57'50	minimum elong	14291 Jul 07 23:40	27° $\text{B}$ 49'08	3°09'09
	14290 Aug 31 03:32	0° $\text{B}$		min. Earth dist.	14291 Jul 08 20:45	26° $\text{B}$ 37'33	0.68072 AU
	14290 Sep 18 22:49	0° $\text{B}$		morning rise	14291 Jul 13 06:38	21° $\text{B}$ 27'51	
morning set	14290 Sep 21 23:36	5° $\text{B}$ 29'21		direct	14291 Jul 18 21:57	18° $\text{B}$ 59'16	
max. Earth dist.	14290 Sep 25 16:54	12° $\text{B}$ 29'28	1.35344 AU	desc. node	14291 Jul 23 13:07	20° $\text{B}$ 20'09	
asc. node	14290 Sep 29 19:33	20° $\text{B}$ 34'00		morning max el	14291 Jul 30 10:47	25° $\text{B}$ 53'46	24°34'25
					14291 Aug 03 05:04	0° $\Omega$	
superior conj	14290 Oct 01 09:04	23° $\text{B}$ 43'21	0°14'32		14291 Aug 24 16:10	0° $\text{B}$	
minimum elong	14290 Oct 01 08:13	23° $\text{B}$ 39'05	0°14'42	morning set	14291 Sep 04 02:33	17° $\text{B}$ 19'04	
behind sun begin	14290 Oct 01 05:43	23° $\text{B}$ 26'20		max. Earth dist.	14291 Sep 07 16:42	23° $\text{B}$ 42'17	1.37562 AU
behind sun end	14290 Oct 01 10:44	23° $\text{B}$ 51'51			14291 Sep 11 02:40	0° $\text{B}$	
	14290 Oct 04 10:25	0° $\text{B}$		superior conj	14291 Sep 14 17:02	6° $\text{B}$ 51'40	-0°17'58
evening rise	14290 Oct 09 02:10	9° $\text{B}$ 40'30		minimum elong	14291 Sep 14 18:13	6° $\text{B}$ 57'28	0°17'43
	14290 Oct 19 20:11	0° $\text{B}$		asc. node	14291 Sep 16 16:06	10° $\text{B}$ 41'27	
evening max el	14290 Oct 27 10:34	9° $\text{B}$ 57'55	20°27'13	evening rise	14291 Sep 23 05:21	23° $\text{B}$ 45'18	
desc. node	14290 Nov 01 11:53	13° $\text{B}$ 51'14			14291 Sep 26 09:09	0° $\text{B}$	
retrograde	14290 Nov 07 10:52	15° $\text{B}$ 26'33		evening max el	14291 Oct 09 23:24	21° $\text{B}$ 15'24	19°19'11
evening set	14290 Nov 09 16:22	15° $\text{B}$ 14'08		retrograde	14291 Oct 19 08:20	25° $\text{B}$ 57'15	
inferior conj	14290 Nov 18 14:31	11° $\text{B}$ 18'59	-4°53'39	desc. node	14291 Oct 19 09:16	25° $\text{B}$ 57'15	
minimum elong	14290 Nov 18 04:33	11° $\text{B}$ 33'30	4°50'10	evening set	14291 Oct 21 05:10	25° $\text{B}$ 46'51	
min. Earth dist.	14290 Nov 19 23:19	10° $\text{B}$ 31'11	0.54683 AU	inferior conj	14291 Oct 29 19:13	21° $\text{B}$ 37'37	-3°14'55
morning rise	14290 Nov 26 16:20	7° $\text{B}$ 19'18		minimum elong	14291 Oct 29 11:03	21° $\text{B}$ 51'05	3°11'13
direct	14290 Dec 01 05:19	6° $\text{B}$ 34'57		min. Earth dist.	14291 Nov 01 09:10	19° $\text{B}$ 55'54	0.55754 AU
morning max el	14290 Dec 14 15:00	13° $\text{B}$ 08'10	23°42'21	morning rise	14291 Nov 06 14:37	17° $\text{B}$ 07'09	
asc. node	14290 Dec 26 20:11	29° $\text{B}$ 04'01		direct	14291 Nov 12 00:06	16° $\text{B}$ 00'58	
	14290 Dec 27 09:40	0° $\text{B}$		morning max el	14291 Nov 26 00:48	23° $\text{B}$ 05'57	25°28'33
morning set	14291 Jan 07 14:38	21° $\text{B}$ 41'14			14291 Dec 02 05:16	0° $\text{B}$	
	14291 Jan 11 10:41	0° $\approx$		asc. node	14291 Dec 13 17:15	17° $\text{B}$ 42'16	
					14291 Dec 20 01:47	0° $\text{B}$	
superior conj	14291 Jan 14 11:04	6° $\approx$ 34'18	1°33'31	morning set	14291 Dec 23 02:14	6° $\text{B}$ 21'46	
minimum elong	14291 Jan 14 12:22	6° $\approx$ 41'21	1°34'21				
max. Earth dist.	14291 Jan 17 05:18	12° $\approx$ 30'01	1.32916 AU	superior conj	14291 Dec 29 20:22	21° $\text{B}$ 13'40	1°37'52
evening rise	14291 Jan 22 03:23	22° $\approx$ 39'43		minimum elong	14291 Dec 29 20:36	21° $\text{B}$ 14'55	1°38'53
	14291 Jan 25 21:49	0° $\text{B}$		max. Earth dist.	14291 Dec 31 08:24	24° $\text{B}$ 32'29	1.31817 AU
desc. node	14291 Jan 28 11:18	4° $\text{B}$ 45'16			14292 Jan 02 20:34	0° $\approx$	
	14291 Feb 13 06:35	0° $\Upsilon$		evening rise	14292 Jan 06 00:21	6° $\approx$ 40'46	
evening max el	14291 Feb 25 06:23	14° $\Upsilon$ 13'13	27°26'23	desc. node	14292 Jan 15 07:59	24° $\approx$ 38'03	
retrograde	14291 Mar 10 22:35	21° $\Upsilon$ 41'30			14292 Jan 18 10:36	0° $\text{B}$	
evening set	14291 Mar 17 17:06	19° $\Upsilon$ 13'12		evening max el	14292 Feb 07 16:46	27° $\text{B}$ 06'17	27°33'08
min. Earth dist.	14291 Mar 21 12:57	15° $\Upsilon$ 47'11	0.64289 AU		14292 Feb 11 00:35	0° $\Upsilon$	
inferior conj	14291 Mar 24 02:49	13° $\Upsilon$ 03'19	-0°11'27				

retrograde	14292 Feb 21 14:23	4° $\Upsilon$ 30'08		evening max el	14293 Jan 19 21:54	9° $\Upsilon$ 15'12	27°06'09
evening set	14292 Feb 28 11:41	2° $\Upsilon$ 12'52		retrograde	14293 Feb 02 21:39	16° $\Upsilon$ 30'29	
	14292 Mar 02 08:43	30° $\Upsilon$ 3'		evening set	14293 Feb 09 15:14	14° $\Upsilon$ 32'22	
min. Earth dist.	14292 Mar 03 05:46	29° $\Upsilon$ 13'15	0.62246 AU	min. Earth dist.	14293 Feb 13 12:16	11° $\Upsilon$ 50'22	0.60048 AU
inferior conj	14292 Mar 06 05:25	26° $\Upsilon$ 24'19	-1°25'18	inferior conj	14293 Feb 16 16:56	9° $\Upsilon$ 12'02	-2°48'35
minimum elong	14292 Mar 06 08:21	26° $\Upsilon$ 17'23	1°23'56	minimum elong	14293 Feb 16 23:06	8° $\Upsilon$ 59'14	2°45'46
asc. node	14292 Mar 10 14:33	22° $\Upsilon$ 42'36		morning rise	14293 Feb 24 10:16	4° $\Upsilon$ 26'30	
morning rise	14292 Mar 13 07:53	21° $\Upsilon$ 18'59		asc. node	14293 Feb 25 12:02	4° $\Upsilon$ 13'59	
direct	14292 Mar 15 13:46	20° $\Upsilon$ 56'09		direct	14293 Feb 26 11:21	4° $\Upsilon$ 10'16	
morning max el	14292 Mar 22 06:37	24° $\Upsilon$ 19'47	17°47'16	morning max el	14293 Mar 05 21:05	7° $\Upsilon$ 51'53	18°02'54
	14292 Mar 26 21:42	0° $\Upsilon$			14293 Mar 20 03:24	0° $\Upsilon$	
morning set	14292 Apr 07 03:47	18° $\Upsilon$ 47'18		morning set	14293 Mar 21 10:54	2° $\Upsilon$ 25'38	
desc. node	14292 Apr 12 10:13	28° $\Upsilon$ 02'26		desc. node	14293 Mar 30 06:44	18° $\Upsilon$ 34'58	
	14292 Apr 13 13:20	0° $\Upsilon$					
superior conj	14292 Apr 18 18:01	8° $\Upsilon$ 51'14	-0°48'36	superior conj	14293 Mar 31 12:11	20° $\Upsilon$ 45'48	-0°09'52
minimum elong	14292 Apr 18 13:20	8° $\Upsilon$ 31'36	0°48'29	minimum elong	14293 Mar 31 11:21	20° $\Upsilon$ 42'07	0°10'01
max. Earth dist.	14292 Apr 25 14:13	20° $\Upsilon$ 05'59	1.43964 AU	behind sun begin	14293 Mar 31 05:11	20° $\Upsilon$ 14'47	
	14292 May 01 20:12	0° $\Upsilon$		behind sun end	14293 Mar 31 17:31	21° $\Upsilon$ 09'23	
evening rise	14292 May 03 07:19	2° $\Upsilon$ 16'23			14293 Apr 05 20:09	0° $\Upsilon$	
	14292 May 22 01:19	0° $\Upsilon$		max. Earth dist.	14293 Apr 08 02:21	3° $\Upsilon$ 47'42	1.42135 AU
evening max el	14292 Jun 02 23:02	14° $\Upsilon$ 49'20	21°15'28	evening rise	14293 Apr 13 11:21	12° $\Upsilon$ 33'58	
asc. node	14292 Jun 06 11:40	17° $\Upsilon$ 53'11			14293 Apr 24 19:18	0° $\Upsilon$	
retrograde	14292 Jun 11 16:25	19° $\Upsilon$ 54'06		evening max el	14293 May 16 16:17	28° $\Upsilon$ 40'15	22°33'20
evening set	14292 Jun 16 01:46	18° $\Upsilon$ 07'29			14293 May 18 01:30	0° $\Upsilon$	
inferior conj	14292 Jun 21 07:33	11° $\Upsilon$ 54'36	3°09'24	asc. node	14293 May 24 08:46	4° $\Upsilon$ 07'30	
minimum elong	14292 Jun 21 07:00	11° $\Upsilon$ 56'29	3°08'20	retrograde	14293 May 26 13:41	4° $\Upsilon$ 29'23	
min. Earth dist.	14292 Jun 21 15:31	11° $\Upsilon$ 26'49	0.68772 AU	evening set	14293 May 31 10:10	2° $\Upsilon$ 27'18	
morning rise	14292 Jun 26 12:02	5° $\Upsilon$ 36'36			14293 Jun 02 18:45	30° $\Upsilon$ 11'	
direct	14292 Jul 01 14:59	3° $\Upsilon$ 23'06		inferior conj	14293 Jun 05 17:14	26° $\Upsilon$ 05'14	2°57'54
desc. node	14292 Jul 09 10:25	7° $\Upsilon$ 10'32		minimum elong	14293 Jun 05 15:51	26° $\Upsilon$ 10'02	2°56'41
morning max el	14292 Jul 11 21:52	9° $\Upsilon$ 29'40	23°05'01	min. Earth dist.	14293 Jun 05 12:14	26° $\Upsilon$ 22'40	0.68997 AU
	14292 Jul 28 01:38	0° $\Upsilon$		morning rise	14293 Jun 10 21:24	19° $\Upsilon$ 53'51	
morning set	14292 Aug 15 07:36	28° $\Upsilon$ 11'19		direct	14293 Jun 15 11:46	17° $\Upsilon$ 58'59	
	14292 Aug 16 09:42	0° $\Upsilon$		morning max el	14293 Jun 24 11:59	23° $\Upsilon$ 13'35	21°38'17
max. Earth dist.	14292 Aug 19 15:17	5° $\Upsilon$ 28'48	1.39926 AU	desc. node	14293 Jun 26 07:36	25° $\Upsilon$ 08'16	
					14293 Jun 30 10:01	0° $\Upsilon$	
superior conj	14292 Aug 27 10:07	19° $\Upsilon$ 18'41	-0°53'15		14293 Jul 21 09:19	0° $\Upsilon$	
minimum elong	14292 Aug 27 14:07	19° $\Upsilon$ 37'02	0°52'53	morning set	14293 Jul 26 11:51	7° $\Upsilon$ 58'43	
	14292 Sep 02 03:05	0° $\Upsilon$		max. Earth dist.	14293 Aug 01 17:54	18° $\Upsilon$ 04'51	1.42172 AU
asc. node	14292 Sep 02 12:38	0° $\Upsilon$ 45'31			14293 Aug 08 19:26	0° $\Upsilon$	
evening rise	14292 Sep 06 00:42	7° $\Upsilon$ 28'04		superior conj	14293 Aug 09 07:50	0° $\Upsilon$ 53'43	-1°28'01
	14292 Sep 19 03:12	0° $\Upsilon$		minimum elong	14293 Aug 09 14:32	1° $\Upsilon$ 22'47	1°27'46
evening max el	14292 Sep 22 00:41	3° $\Upsilon$ 21'10	18°33'18	evening rise	14293 Aug 20 08:20	20° $\Upsilon$ 38'04	
retrograde	14292 Sep 30 00:07	7° $\Upsilon$ 22'59		asc. node	14293 Aug 20 09:10	20° $\Upsilon$ 41'50	
evening set	14292 Oct 01 23:04	7° $\Upsilon$ 09'12			14293 Aug 25 12:33	0° $\Upsilon$	
desc. node	14292 Oct 05 06:43	5° $\Upsilon$ 49'12		evening max el	14293 Sep 05 10:19	16° $\Upsilon$ 05'30	18°08'20
inferior conj	14292 Oct 09 20:39	2° $\Upsilon$ 40'12	-1°27'35	retrograde	14293 Sep 12 10:20	19° $\Upsilon$ 39'57	
minimum elong	14292 Oct 09 17:09	2° $\Upsilon$ 46'55	1°25'42	evening set	14293 Sep 14 16:05	19° $\Upsilon$ 18'26	
min. Earth dist.	14292 Oct 13 01:25	0° $\Upsilon$ 13'24	0.57533 AU	inferior conj	14293 Sep 21 19:31	14° $\Upsilon$ 28'40	0°06'47
	14292 Oct 13 08:46	30° $\Upsilon$ 3'		minimum elong	14293 Sep 21 19:45	14° $\Upsilon$ 28'09	0°06'51
morning rise	14292 Oct 17 07:45	27° $\Upsilon$ 31'57		transit middle	14293 Sep 21 19:45	14° $\Upsilon$ 28'09	0°06'51
direct	14292 Oct 23 09:32	25° $\Upsilon$ 59'09		transit begin	14293 Sep 21 16:42	14° $\Upsilon$ 34'59	
	14292 Nov 02 14:32	0° $\Upsilon$		transit end	14293 Sep 21 22:49	14° $\Upsilon$ 21'18	
morning max el	14292 Nov 06 16:24	3° $\Upsilon$ 29'48	26°54'04	desc. node	14293 Sep 22 04:15	14° $\Upsilon$ 09'05	
	14292 Nov 25 20:20	0° $\Upsilon$		min. Earth dist.	14293 Sep 25 01:47	11° $\Upsilon$ 34'42	0.59723 AU
asc. node	14292 Nov 29 14:13	6° $\Upsilon$ 52'27		morning rise	14293 Sep 28 20:06	8° $\Upsilon$ 47'27	
morning set	14292 Dec 06 11:54	20° $\Upsilon$ 53'04		direct	14293 Oct 05 08:28	6° $\Upsilon$ 47'45	
	14292 Dec 10 15:56	0° $\Upsilon$		morning max el	14293 Oct 19 15:38	14° $\Upsilon$ 36'35	27°45'36
					14293 Nov 01 02:09	0° $\Upsilon$	
superior conj	14292 Dec 13 07:40	5° $\Upsilon$ 55'39	1°36'12	asc. node	14293 Nov 16 11:04	26° $\Upsilon$ 25'26	
minimum elong	14292 Dec 13 06:51	5° $\Upsilon$ 51'04	1°37'13		14293 Nov 18 05:54	0° $\Upsilon$	
max. Earth dist.	14292 Dec 13 15:39	6° $\Upsilon$ 40'17	1.31230 AU	morning set	14293 Nov 20 17:48	5° $\Upsilon$ 10'06	
evening rise	14292 Dec 20 03:55	20° $\Upsilon$ 57'09		max. Earth dist.	14293 Nov 26 23:33	18° $\Upsilon$ 45'38	1.31169 AU
	14292 Dec 24 13:30	0° $\Upsilon$					
desc. node	14293 Jan 01 04:45	14° $\Upsilon$ 04'57		superior conj	14293 Nov 27 19:04	20° $\Upsilon$ 34'29	1°28'38
	14293 Jan 11 18:10	0° $\Upsilon$		minimum elong	14293 Nov 27 17:23	20° $\Upsilon$ 25'06	1°29'30



	14293 Dec 02 00:39	0° $\text{Z}$		evening rise	14294 Nov 18 22:21	19° $\text{Z}$ 54'05	
evening rise	14293 Dec 04 11:54	5° $\text{Z}$ 23'17			14294 Nov 23 18:24	0° $\text{Z}$	
	14293 Dec 17 06:24	0° $\approx$		desc. node	14294 Dec 05 22:40	20° $\text{Z}$ 57'50	
desc. node	14293 Dec 19 01:39	2° $\approx$ 56'09			14294 Dec 13 08:13	0° $\approx$	
evening max el	14294 Jan 01 19:36	20° $\approx$ 32'58	26°04'51	evening max el	14294 Dec 14 09:14	1° $\approx$ 01'37	24°35'37
retrograde	14294 Jan 15 18:24	27° $\approx$ 37'00		retrograde	14294 Dec 28 02:20	7° $\approx$ 51'59	
evening set	14294 Jan 21 23:57	26° $\approx$ 05'10		evening set	14295 Jan 02 09:55	6° $\approx$ 49'45	
min. Earth dist.	14294 Jan 26 08:52	23° $\approx$ 28'01	0.57901 AU	min. Earth dist.	14295 Jan 07 21:00	4° $\approx$ 00'59	0.56075 AU
inferior conj	14294 Jan 29 09:51	21° $\approx$ 17'16	-4°13'46	inferior conj	14295 Jan 10 05:54	2° $\approx$ 32'02	-5°25'05
minimum elong	14294 Jan 29 18:36	21° $\approx$ 01'31	4°10'21	minimum elong	14295 Jan 10 13:41	2° $\approx$ 19'49	5°22'44
morning rise	14294 Feb 06 16:15	16° $\approx$ 53'11			14295 Jan 14 14:53	30° $\text{R}$ $\text{Z}$	
direct	14294 Feb 08 16:58	16° $\approx$ 39'47		morning rise	14295 Jan 18 19:30	28° $\text{Z}$ 28'47	
asc. node	14294 Feb 12 09:29	17° $\approx$ 26'34		direct	14295 Jan 21 03:34	28° $\text{Z}$ 14'01	
morning max el	14294 Feb 17 04:38	20° $\approx$ 49'45	18°38'48		14295 Jan 27 04:22	0° $\approx$	
	14294 Feb 24 03:34	0° $\text{H}$		asc. node	14295 Jan 30 06:54	2° $\approx$ 18'47	
morning set	14294 Mar 05 06:07	16° $\text{H}$ 36'15		morning max el	14295 Jan 31 01:02	3° $\approx$ 01'05	19°37'00
	14294 Mar 12 04:51	0° $\text{Y}$			14295 Feb 16 20:07	0° $\text{H}$	
				morning set	14295 Feb 17 09:23	1° $\text{H}$ 06'37	
superior conj	14294 Mar 14 02:41	3° $\text{Y}$ 35'40	0°24'31				
minimum elong	14294 Mar 14 04:18	3° $\text{Y}$ 43'13	0°24'17	superior conj	14295 Feb 25 08:52	17° $\text{H}$ 07'25	0°52'35
desc. node	14294 Mar 17 03:15	9° $\text{Y}$ 10'04		minimum elong	14295 Feb 25 11:29	17° $\text{H}$ 20'15	0°52'32
max. Earth dist.	14294 Mar 21 10:17	16° $\text{Y}$ 48'48	1.39970 AU	max. Earth dist.	14295 Mar 03 16:47	29° $\text{H}$ 11'31	1.37704 AU
evening rise	14294 Mar 25 12:16	23° $\text{Y}$ 47'33		desc. node	14295 Mar 03 23:45	29° $\text{H}$ 43'33	
	14294 Mar 29 06:45	0° $\text{B}$			14295 Mar 04 03:20	0° $\text{Y}$	
	14294 Apr 18 15:21	0° $\text{II}$		evening rise	14295 Mar 07 09:44	5° $\text{Y}$ 52'53	
evening max el	14294 Apr 29 06:47	12° $\text{II}$ 33'37	23°54'31		14295 Mar 22 05:31	0° $\text{B}$	
retrograde	14294 May 10 07:58	19° $\text{II}$ 02'48		evening max el	14295 Apr 11 20:24	26° $\text{B}$ 27'21	25°12'24
asc. node	14294 May 11 06:00	18° $\text{II}$ 59'04			14295 Apr 15 20:43	0° $\text{II}$	
evening set	14294 May 15 16:03	16° $\text{II}$ 47'25		retrograde	14295 Apr 23 22:07	3° $\text{II}$ 27'33	
min. Earth dist.	14294 May 20 08:44	11° $\text{II}$ 19'28	0.68749 AU	asc. node	14295 Apr 28 03:21	2° $\text{II}$ 12'12	
inferior conj	14294 May 21 02:25	10° $\text{II}$ 19'08	2°36'07	evening set	14295 Apr 29 17:46	1° $\text{II}$ 01'52	
minimum elong	14294 May 21 00:28	10° $\text{II}$ 25'49	2°34'44		14295 Apr 30 20:26	30° $\text{R}$ $\text{B}$	
morning rise	14294 May 26 08:53	4° $\text{II}$ 15'44		min. Earth dist.	14295 May 04 02:47	26° $\text{B}$ 10'19	0.68039 AU
direct	14294 May 30 10:56	2° $\text{II}$ 41'12		inferior conj	14295 May 05 09:09	24° $\text{B}$ 31'15	2°03'53
morning max el	14294 Jun 07 08:07	7° $\text{II}$ 08'25	20°21'08	minimum elong	14295 May 05 07:00	24° $\text{B}$ 38'18	2°02'28
desc. node	14294 Jun 13 04:40	13° $\text{II}$ 55'36		morning rise	14295 May 10 20:35	18° $\text{B}$ 37'13	
	14294 Jun 24 15:11	0° $\text{E}$		direct	14295 May 14 10:57	17° $\text{B}$ 22'49	
morning set	14294 Jul 05 19:35	16° $\text{E}$ 54'26		morning max el	14295 May 21 11:47	21° $\text{B}$ 13'50	19°17'51
	14294 Jul 14 04:07	0° $\Omega$			14295 May 28 17:11	0° $\text{II}$	
max. Earth dist.	14294 Jul 15 03:32	1° $\Omega$ 33'28	1.44038 AU	desc. node	14295 May 31 01:37	3° $\text{II}$ 18'34	
				greatest brilliancy	14295 Jun 03 05:45	7° $\text{II}$ 56'28	-0.7m
superior conj	14294 Jul 21 06:38	11° $\Omega$ 30'17	-1°56'50	morning set	14295 Jun 14 22:43	25° $\text{II}$ 43'20	
minimum elong	14294 Jul 21 13:46	11° $\Omega$ 59'39	1°57'08		14295 Jun 17 17:18	0° $\text{E}$	
	14294 Aug 01 05:04	0° $\text{H}$		max. Earth dist.	14295 Jun 27 19:29	15° $\text{E}$ 42'37	1.45309 AU
evening rise	14294 Aug 02 23:33	3° $\text{H}$ 04'00					
asc. node	14294 Aug 07 05:46	10° $\text{H}$ 26'36		superior conj	14295 Jul 01 06:33	21° $\text{E}$ 10'25	-2°12'35
evening max el	14294 Aug 20 00:10	29° $\text{H}$ 18'22	18°02'42	minimum elong	14295 Jul 01 09:12	21° $\text{E}$ 20'54	2°13'33
	14294 Aug 20 17:52	0° $\Delta$			14295 Jul 06 19:06	0° $\Omega$	
retrograde	14294 Aug 26 11:30	2° $\Delta$ 39'46		evening rise	14295 Jul 15 17:12	14° $\Omega$ 33'48	
evening set	14294 Aug 29 01:27	2° $\Delta$ 06'52		asc. node	14295 Jul 25 02:27	29° $\Omega$ 54'40	
	14294 Sep 01 08:22	30° $\text{R}$ $\text{H}$			14295 Jul 25 03:48	0° $\text{H}$	
inferior conj	14294 Sep 04 12:53	26° $\text{H}$ 57'50	1°20'11	evening max el	14295 Aug 03 14:36	12° $\text{H}$ 50'29	18°15'29
minimum elong	14294 Sep 04 14:57	26° $\text{H}$ 52'30	1°19'18	retrograde	14295 Aug 09 23:15	16° $\text{H}$ 12'52	
min. Earth dist.	14294 Sep 07 11:27	23° $\text{H}$ 58'14	0.62017 AU	evening set	14295 Aug 12 21:46	15° $\text{H}$ 25'54	
desc. node	14294 Sep 09 01:47	22° $\text{H}$ 28'52		inferior conj	14295 Aug 18 20:43	9° $\text{H}$ 59'51	2°12'31
morning rise	14294 Sep 11 01:59	20° $\text{H}$ 53'04		minimum elong	14295 Aug 18 23:08	9° $\text{H}$ 52'53	2°11'24
direct	14294 Sep 17 18:18	18° $\text{H}$ 31'38		min. Earth dist.	14295 Aug 21 06:49	7° $\text{H}$ 14'12	0.64163 AU
morning max el	14294 Oct 01 21:24	26° $\text{H}$ 30'19	27°58'10	morning rise	14295 Aug 24 22:57	3° $\text{H}$ 41'11	
	14294 Oct 05 04:07	0° $\Delta$		desc. node	14295 Aug 26 23:19	2° $\text{H}$ 20'06	
	14294 Oct 25 17:09	0° $\text{M}$		direct	14295 Aug 31 13:09	1° $\text{H}$ 06'15	
asc. node	14294 Nov 03 07:50	16° $\text{M}$ 14'32		morning max el	14295 Sep 14 07:22	9° $\text{H}$ 05'18	27°33'58
morning set	14294 Nov 04 17:55	19° $\text{M}$ 07'47			14295 Sep 30 14:58	0° $\Delta$	
	14294 Nov 09 21:05	0° $\text{Z}$			14295 Oct 18 01:07	0° $\text{M}$	
max. Earth dist.	14294 Nov 10 04:27	0° $\text{Z}$ 40'06	1.31649 AU	morning set	14295 Oct 19 09:51	2° $\text{M}$ 40'38	
				asc. node	14295 Oct 21 04:32	6° $\text{M}$ 14'30	
superior conj	14294 Nov 12 04:43	5° $\text{Z}$ 04'44	1°15'15	max. Earth dist.	14295 Oct 24 02:41	12° $\text{M}$ 16'06	1.32673 AU
minimum elong	14294 Nov 12 02:30	4° $\text{Z}$ 52'32	1°15'51				

superior conj	14295 Oct 27 10:35	19° $\mathbb{M}$ 20'59	0°56'04	superior conj	14296 Oct 10 10:14	3° $\mathbb{M}$ 16'15	0°31'14
minimum elong	14295 Oct 27 08:20	19° $\mathbb{M}$ 08'54	0°56'25	minimum elong	14296 Oct 10 08:39	3° $\mathbb{M}$ 07'58	0°31'25
	14295 Nov 01 08:20	0° $\mathbb{X}$		evening rise	14296 Oct 17 19:09	18° $\mathbb{M}$ 49'34	
evening rise	14295 Nov 03 09:26	4° $\mathbb{X}$ 24'50			14296 Oct 23 07:07	0° $\mathbb{X}$	
	14295 Nov 16 23:57	0° $\mathbb{Z}$		evening max el	14296 Nov 06 10:20	21° $\mathbb{X}$ 11'17	21°15'51
desc. node	14295 Nov 22 19:49	7° $\mathbb{Z}$ 51'55		desc. node	14296 Nov 08 17:04	23° $\mathbb{X}$ 13'55	
evening max el	14295 Nov 25 19:00	11° $\mathbb{Z}$ 02'11	22°53'19	retrograde	14296 Nov 18 08:41	27° $\mathbb{X}$ 06'38	
retrograde	14295 Dec 08 21:30	17° $\mathbb{Z}$ 32'21		evening set	14296 Nov 21 02:01	26° $\mathbb{X}$ 49'24	
evening set	14295 Dec 12 21:56	16° $\mathbb{Z}$ 57'12		inferior conj	14296 Nov 29 22:33	22° $\mathbb{X}$ 56'42	-5°34'02
min. Earth dist.	14295 Dec 20 03:56	13° $\mathbb{Z}$ 37'34	0.54852 AU	minimum elong	14296 Nov 29 14:49	23° $\mathbb{X}$ 07'35	5°31'45
inferior conj	14295 Dec 21 07:07	12° $\mathbb{Z}$ 58'52	-5°58'37	min. Earth dist.	14296 Nov 30 09:45	22° $\mathbb{X}$ 40'54	0.54471 AU
minimum elong	14295 Dec 21 07:57	12° $\mathbb{Z}$ 57'40	5°57'33	morning rise	14296 Dec 08 04:11	19° $\mathbb{X}$ 06'34	
morning rise	14295 Dec 29 19:24	9° $\mathbb{Z}$ 10'10		direct	14296 Dec 12 03:27	18° $\mathbb{X}$ 32'37	
direct	14296 Jan 01 20:05	8° $\mathbb{Z}$ 48'53		morning max el	14296 Dec 24 23:53	24° $\mathbb{X}$ 44'37	22°39'25
morning max el	14296 Jan 13 07:14	14° $\mathbb{Z}$ 18'19	20°58'21		14296 Dec 29 18:07	0° $\mathbb{Z}$	
asc. node	14296 Jan 17 04:14	18° $\mathbb{Z}$ 36'11		asc. node	14297 Jan 03 01:29	6° $\mathbb{Z}$ 00'15	
	14296 Jan 24 15:29	0° $\approx$			14297 Jan 15 22:32	0° $\approx$	
morning set	14296 Feb 01 17:45	15° $\approx$ 48'12		morning set	14297 Jan 16 04:52	0° $\approx$ 33'34	
	14296 Feb 08 13:03	0° $\mathbb{H}$					
superior conj	14296 Feb 09 02:38	1° $\mathbb{H}$ 09'56	1°13'46	superior conj	14297 Jan 23 04:31	15° $\approx$ 32'58	1°28'11
minimum elong	14296 Feb 09 05:11	1° $\mathbb{H}$ 23'03	1°14'03	minimum elong	14297 Jan 23 06:22	15° $\approx$ 42'52	1°28'50
max. Earth dist.	14296 Feb 14 01:56	11° $\mathbb{H}$ 08'58	1.35573 AU	max. Earth dist.	14297 Jan 26 17:25	22° $\approx$ 59'06	1.33761 AU
evening rise	14296 Feb 18 00:52	18° $\mathbb{H}$ 42'07			14297 Jan 30 04:33	0° $\mathbb{H}$	
desc. node	14296 Feb 18 20:17	20° $\mathbb{H}$ 12'00		evening rise	14297 Jan 31 06:08	2° $\mathbb{H}$ 05'47	
	14296 Feb 24 08:34	0° $\mathbb{Y}$		desc. node	14297 Feb 04 16:51	10° $\mathbb{H}$ 30'50	
	14296 Mar 15 09:15	0° $\mathbb{B}$			14297 Feb 16 06:59	0° $\mathbb{Y}$	
evening max el	14296 Mar 24 10:00	10° $\mathbb{B}$ 16'33	26°19'39	evening max el	14297 Mar 06 23:31	23° $\mathbb{Y}$ 53'18	27°08'59
retrograde	14296 Apr 06 07:17	17° $\mathbb{B}$ 36'46			14297 Mar 15 03:12	0° $\mathbb{B}$	
evening set	14296 Apr 12 13:36	15° $\mathbb{B}$ 05'10		retrograde	14297 Mar 20 10:42	1° $\mathbb{B}$ 22'15	
asc. node	14296 Apr 14 00:45	13° $\mathbb{B}$ 45'22			14297 Mar 25 08:14	30° $\mathbb{R}$ $\mathbb{Y}$	
min. Earth dist.	14296 Apr 16 16:19	10° $\mathbb{B}$ 48'49	0.66888 AU	evening set	14297 Mar 27 01:35	28° $\mathbb{Y}$ 50'37	
inferior conj	14296 Apr 18 11:22	8° $\mathbb{B}$ 37'14	1°20'38	min. Earth dist.	14297 Mar 30 23:21	25° $\mathbb{Y}$ 07'15	0.65331 AU
minimum elong	14296 Apr 18 09:34	8° $\mathbb{B}$ 42'45	1°19'26	asc. node	14297 Mar 31 22:12	24° $\mathbb{Y}$ 03'44	
morning rise	14296 Apr 24 06:27	2° $\mathbb{B}$ 54'02		inferior conj	14297 Apr 02 06:44	22° $\mathbb{Y}$ 31'47	0°25'40
direct	14296 Apr 27 10:01	1° $\mathbb{B}$ 58'08		minimum elong	14297 Apr 02 06:02	22° $\mathbb{Y}$ 33'45	0°25'05
morning max el	14296 May 03 22:25	5° $\mathbb{B}$ 26'06	18°30'30	morning rise	14297 Apr 08 12:09	17° $\mathbb{Y}$ 01'13	
desc. node	14296 May 16 22:27	23° $\mathbb{B}$ 07'35		direct	14297 Apr 11 06:02	16° $\mathbb{Y}$ 20'57	
	14296 May 21 08:02	0° $\mathbb{I}$		morning max el	14297 Apr 17 13:57	19° $\mathbb{Y}$ 38'36	17°59'58
morning set	14296 May 24 18:00	5° $\mathbb{I}$ 22'32			14297 Apr 25 12:34	0° $\mathbb{B}$	
	14296 Jun 09 11:18	0° $\mathbb{E}$		desc. node	14297 May 03 19:10	13° $\mathbb{B}$ 15'34	
				morning set	14297 May 05 16:42	16° $\mathbb{B}$ 22'01	
					14297 May 14 02:10	0° $\mathbb{I}$	
superior conj	14296 Jun 09 16:01	0° $\mathbb{E}$ 18'22	-2°09'14	superior conj	14297 May 20 03:40	9° $\mathbb{I}$ 39'04	-1°46'36
minimum elong	14296 Jun 09 10:56	29° $\mathbb{I}$ 58'32	2°10'06	minimum elong	14297 May 19 18:41	9° $\mathbb{I}$ 03'36	1°46'44
max. Earth dist.	14296 Jun 09 14:49	0° $\mathbb{E}$ 13'40	1.45869 AU	max. Earth dist.	14297 May 23 10:45	14° $\mathbb{I}$ 49'53	1.45680 AU
evening rise	14296 Jun 25 10:07	25° $\mathbb{E}$ 01'25			14297 Jun 02 05:09	0° $\mathbb{E}$	
	14296 Jun 28 13:40	0° $\mathbb{O}$		evening rise	14297 Jun 05 05:41	4° $\mathbb{E}$ 39'21	
greatest brilliancy	14296 Jul 03 23:18	8° $\mathbb{O}$ 29'31	-0.8m	greatest brilliancy	14297 Jun 18 16:59	25° $\mathbb{E}$ 05'30	-0.7m
asc. node	14296 Jul 10 23:12	18° $\mathbb{O}$ 59'20			14297 Jun 22 02:31	0° $\mathbb{O}$	
evening max el	14296 Jul 17 02:36	26° $\mathbb{O}$ 33'41	18°45'51		14297 Jun 27 20:04	7° $\mathbb{O}$ 32'33	
	14296 Jul 22 08:47	0° $\mathbb{P}$		asc. node	14297 Jun 30 10:01	10° $\mathbb{O}$ 22'34	19°32'51
retrograde	14296 Jul 23 17:36	0° $\mathbb{P}$ 10'24		evening max el	14297 Jul 07 15:26	14° $\mathbb{O}$ 25'51	
	14296 Jul 25 01:55	30° $\mathbb{R}$ $\mathbb{O}$		retrograde	14297 Jul 11 08:21	13° $\mathbb{O}$ 06'07	
evening set	14296 Jul 27 01:01	29° $\mathbb{O}$ 07'33		evening set	14297 Jul 16 17:00	7° $\mathbb{O}$ 11'47	3°05'18
inferior conj	14296 Aug 01 15:09	23° $\mathbb{O}$ 26'34	2°46'33	inferior conj	14297 Jul 16 18:02	7° $\mathbb{O}$ 08'23	3°04'18
minimum elong	14296 Aug 01 17:05	23° $\mathbb{O}$ 20'33	2°45'29	minimum elong	14297 Jul 17 22:40	5° $\mathbb{O}$ 33'26	0.67443 AU
min. Earth dist.	14296 Aug 03 11:07	21° $\mathbb{O}$ 09'39	0.66005 AU	min. Earth dist.	14297 Jul 22 03:12	0° $\mathbb{O}$ 47'02	
morning rise	14296 Aug 07 08:13	17° $\mathbb{O}$ 01'56		morning rise	14297 Jul 23 02:14	30° $\mathbb{R}$ $\mathbb{E}$	
desc. node	14296 Aug 12 20:50	14° $\mathbb{O}$ 24'57			14297 Jul 28 01:04	28° $\mathbb{E}$ 12'08	
direct	14296 Aug 13 15:48	14° $\mathbb{O}$ 22'37		direct	14297 Jul 30 18:15	28° $\mathbb{E}$ 40'00	
morning max el	14296 Aug 26 18:45	22° $\mathbb{O}$ 09'15	26°39'29	desc. node	14297 Aug 02 14:07	0° $\mathbb{O}$	
	14296 Sep 02 15:59	0° $\mathbb{P}$			14297 Aug 09 05:40	5° $\mathbb{O}$ 30'31	25°23'44
	14296 Sep 22 20:50	0° $\mathbb{A}$		morning max el	14297 Aug 28 03:36	0° $\mathbb{P}$	
morning set	14296 Oct 01 14:27	15° $\mathbb{A}$ 40'36		morning set	14297 Sep 14 04:02	27° $\mathbb{P}$ 59'18	
max. Earth dist.	14296 Oct 05 15:14	23° $\mathbb{A}$ 30'24	1.34228 AU		14297 Sep 15 06:40	0° $\mathbb{A}$	
asc. node	14296 Oct 07 01:08	26° $\mathbb{A}$ 20'11		max. Earth dist.	14297 Sep 17 18:11	4° $\mathbb{A}$ 34'57	1.36247 AU
	14296 Oct 08 20:18	0° $\mathbb{M}$					

asc. node	14297 Sep 23 21:41	16°♄28'06		max. Earth dist.	14298 Aug 30 16:10	15°♎56'38	1.38562 AU
superior conj	14297 Sep 24 00:56	16°♄44'17	0°01'16	superior conj	14298 Sep 07 03:05	29°♎36'09	-0°32'44
minimum elong	14297 Sep 24 00:50	16°♄43'49	0°01'26	minimum elong	14298 Sep 07 05:24	29°♎47'08	0°32'26
behind sun begin	14297 Sep 23 18:31	16°♄12'23			14298 Sep 07 08:07	0°♄	
behind sun end	14297 Sep 24 07:09	17°♄15'19		asc. node	14298 Sep 10 18:14	6°♄34'32	
	14297 Sep 30 13:35	0°♌		evening rise	14298 Sep 16 01:38	16°♄59'20	
evening rise	14297 Oct 02 01:26	3°♌03'20			14298 Sep 22 21:54	0°♌	
	14297 Oct 17 18:22	0°♌		evening max el	14298 Oct 02 09:38	13°♌40'13	18°57'05
evening max el	14297 Oct 19 14:58	2°♌00'58	19°55'36	retrograde	14298 Oct 11 02:59	18°♌03'11	
desc. node	14297 Oct 26 14:23	6°♌37'45		evening set	14298 Oct 12 23:59	17°♌51'50	
retrograde	14297 Oct 29 22:31	7°♌09'20		desc. node	14298 Oct 13 11:46	17°♌45'16	
evening set	14297 Oct 31 22:23	6°♌58'42		inferior conj	14298 Oct 21 07:39	13°♌34'47	-2°28'52
inferior conj	14297 Nov 09 18:40	2°♌59'03	-4°14'47	minimum elong	14298 Oct 21 01:24	13°♌45'44	2°25'47
minimum elong	14297 Nov 09 08:45	3°♌14'10	4°10'52	min. Earth dist.	14298 Oct 24 05:51	11°♌32'13	0.56444 AU
min. Earth dist.	14297 Nov 11 17:37	1°♌47'29	0.55038 AU	morning rise	14298 Oct 28 23:51	8°♌48'38	
	14297 Nov 14 22:23	30°♌		direct	14298 Nov 03 17:13	7°♌31'13	
morning rise	14297 Nov 17 17:46	28°♌47'31		morning max el	14298 Nov 17 20:55	14°♌47'35	26°08'19
direct	14297 Nov 22 15:56	27°♌54'24			14298 Nov 30 00:40	0°♌	
	14297 Nov 30 03:32	0°♌		asc. node	14298 Dec 07 19:37	13°♌08'32	
morning max el	14297 Dec 06 09:29	4°♌42'46	24°28'44	morning set	14298 Dec 16 03:49	29°♌54'44	
asc. node	14297 Dec 20 22:36	24°♌15'17			14298 Dec 16 04:48	0°♌	
	14297 Dec 24 03:25	0°♌					
morning set	14297 Dec 31 16:48	15°♌17'17		superior conj	14298 Dec 22 22:12	14°♌50'08	1°37'53
				minimum elong	14298 Dec 22 21:58	14°♌48'51	1°38'55
superior conj	14298 Jan 07 11:47	0°♌08'31	1°36'07	max. Earth dist.	14298 Dec 23 21:58	17°♌02'13	1.31508 AU
minimum elong	14298 Jan 07 12:38	0°♌13'11	1°37'02	evening rise	14298 Dec 29 22:22	0°♌04'50	
	14298 Jan 07 10:14	0°♌			14298 Dec 29 21:26	0°♌	
max. Earth dist.	14298 Jan 09 16:37	4°♌55'58	1.32388 AU	desc. node	14299 Jan 09 10:11	20°♌18'14	
evening rise	14298 Jan 14 22:14	15°♌55'44			14299 Jan 15 07:16	0°♌	
	14298 Jan 22 05:44	0°♌		evening max el	14299 Jan 30 20:34	19°♌43'45	27°26'01
desc. node	14298 Jan 22 13:28	0°♌34'59		retrograde	14299 Feb 13 19:30	27°♌03'41	
	14298 Feb 10 23:29	0°♌		evening set	14299 Feb 20 15:58	24°♌54'01	
evening max el	14298 Feb 17 11:46	7°♌06'35	27°33'11	min. Earth dist.	14299 Feb 24 10:45	22°♌02'53	0.61321 AU
retrograde	14298 Mar 03 07:12	14°♌34'17		inferior conj	14299 Feb 27 13:08	19°♌16'44	-1°59'44
evening set	14298 Mar 10 03:19	12°♌09'50		minimum elong	14299 Feb 27 17:24	19°♌07'09	1°57'43
min. Earth dist.	14298 Mar 13 22:02	8°♌55'36	0.63441 AU	asc. node	14299 Mar 05 17:09	14°♌46'15	
inferior conj	14298 Mar 16 16:24	6°♌07'44	-0°41'27	morning rise	14299 Mar 06 21:53	14°♌19'06	
minimum elong	14298 Mar 16 17:44	6°♌04'22	0°40'54	direct	14299 Mar 09 01:22	13°♌59'27	
asc. node	14298 Mar 18 19:41	4°♌02'14		morning max el	14299 Mar 16 00:16	17°♌29'35	17°51'29
morning rise	14298 Mar 23 10:37	0°♌52'09			14299 Mar 24 22:50	0°♌	
direct	14298 Mar 25 20:17	0°♌24'03		morning set	14299 Mar 31 15:59	11°♌51'35	
morning max el	14298 Apr 01 07:37	3°♌42'40	17°46'43	desc. node	14299 Apr 07 12:22	24°♌06'14	
morning set	14298 Apr 17 17:57	28°♌37'31			14299 Apr 10 21:35	0°♌	
	14298 Apr 18 13:11	0°♌					
desc. node	14298 Apr 20 15:47	3°♌36'32		superior conj	14299 Apr 11 13:28	1°♌08'17	-0°31'51
				minimum elong	14299 Apr 11 10:33	0°♌55'43	0°31'50
superior conj	14298 Apr 30 08:39	19°♌50'22	-1°11'16	max. Earth dist.	14299 Apr 18 20:31	13°♌20'22	1.43250 AU
minimum elong	14298 Apr 30 01:38	19°♌21'41	1°11'04	evening rise	14299 Apr 25 11:02	23°♌53'39	
max. Earth dist.	14298 May 06 05:13	29°♌16'33	1.44776 AU		14299 Apr 29 09:39	0°♌	
	14298 May 06 16:09	0°♌			14299 May 20 08:57	0°♌	
evening rise	14298 May 15 16:32	14°♌02'53		evening max el	14299 May 27 07:40	8°♌03'35	21°47'47
	14298 May 26 06:40	0°♌		asc. node	14299 Jun 01 14:04	12°♌17'01	
evening max el	14298 Jun 13 11:39	24°♌12'53	20°34'37	retrograde	14299 Jun 05 12:32	13°♌26'36	
asc. node	14298 Jun 14 17:01	25°♌22'59		evening set	14299 Jun 10 02:38	11°♌33'09	
retrograde	14298 Jun 21 14:21	28°♌52'53		inferior conj	14299 Jun 15 08:43	5°♌16'19	3°05'46
evening set	14298 Jun 25 17:29	27°♌16'00		minimum elong	14299 Jun 15 07:48	5°♌19'31	3°04'38
inferior conj	14298 Jun 30 23:35	21°♌09'39	3°11'10	min. Earth dist.	14299 Jun 15 11:09	5°♌07'52	0.68935 AU
minimum elong	14298 Jun 30 23:37	21°♌09'35	3°10'10		14299 Jun 19 12:08	30°♌	
min. Earth dist.	14298 Jul 01 15:22	20°♌15'21	0.68428 AU	morning rise	14299 Jun 20 12:47	29°♌01'08	
morning rise	14298 Jul 06 05:26	14°♌48'34		direct	14299 Jun 25 10:29	26°♌55'08	
direct	14298 Jul 11 15:41	12°♌25'30			14299 Jul 02 06:12	0°♌	
desc. node	14298 Jul 17 15:35	14°♌40'46		desc. node	14299 Jul 04 12:51	2°♌01'53	
morning max el	14298 Jul 22 15:59	19°♌00'43	23°56'32	morning max el	14299 Jul 05 03:50	2°♌38'49	22°27'17
	14298 Jul 31 22:56	0°♌			14299 Jul 25 22:40	0°♌	
	14298 Aug 21 06:17	0°♌		morning set	14299 Aug 07 16:36	19°♌48'56	
morning set	14298 Aug 26 22:08	9°♌25'19		max. Earth dist.	14299 Aug 12 16:14	28°♌03'46	1.40917 AU

	14299 Aug 13 19:41	0°♎			14300 Jul 18 23:31	0°♏	
				max. Earth dist.	14300 Jul 25 22:18	11°♏04'57	1.43025 AU
superior conj	14299 Aug 20 12:27	11°♎41'46	-1°08'20				
minimum elong	14299 Aug 20 17:42	12°♎05'17	1°07'58	superior conj	14300 Aug 02 00:45	22°♏52'09	-1°41'22
asc. node	14299 Aug 28 14:46	26°♎35'27		minimum elong	14300 Aug 02 08:05	23°♏23'16	1°41'18
	14299 Aug 30 10:20	0°♏			14300 Aug 06 04:25	0°♎	
evening rise	14299 Aug 30 16:29	0°♏28'54		evening rise	14300 Aug 13 17:49	13°♎21'59	
evening max el	14299 Sep 15 14:58	26°♏02'57	18°20'14	asc. node	14300 Aug 15 11:21	16°♎27'28	
retrograde	14299 Sep 23 02:58	29°♏51'28			14300 Aug 23 08:26	0°♏	
evening set	14299 Sep 25 04:38	29°♏34'46		evening max el	14300 Aug 30 02:50	9°♏00'12	18°03'37
desc. node	14299 Sep 30 09:17	26°♏49'07		retrograde	14300 Sep 05 20:19	12°♏27'47	
inferior conj	14299 Oct 02 18:20	24°♏56'28	-0°45'14	evening set	14300 Sep 08 05:24	12°♏01'53	
minimum elong	14299 Oct 02 16:39	24°♏59'57	0°44'11	inferior conj	14300 Sep 15 01:36	7°♏03'28	0°40'35
min. Earth dist.	14299 Oct 06 01:01	22°♏15'55	0.58431 AU	minimum elong	14300 Sep 15 02:50	7°♏00'31	0°40'09
morning rise	14299 Oct 10 01:13	19°♏33'29		desc. node	14300 Sep 17 06:50	4°♏56'25	
direct	14299 Oct 16 08:14	17°♏49'15		min. Earth dist.	14300 Sep 18 05:18	4°♏04'31	0.60692 AU
morning max el	14299 Oct 30 15:40	25°♏27'39	27°20'47	morning rise	14300 Sep 21 21:16	1°♏10'41	
	14299 Nov 03 21:15	0°♎			14300 Sep 24 00:55	30°♎	
	14299 Nov 23 09:22	0°♎		direct	14300 Sep 28 11:53	29°♎01'10	
asc. node	14299 Nov 24 16:31	2°♎29'14			14300 Oct 03 03:54	0°♏	
morning set	14299 Nov 30 12:07	14°♎20'29		morning max el	14300 Oct 12 18:15	6°♏55'37	27°55'54
					14300 Oct 30 05:48	0°♎	
superior conj	14299 Dec 07 09:46	29°♎31'09	1°33'42	asc. node	14300 Nov 11 13:20	22°♎09'49	
minimum elong	14299 Dec 07 08:33	29°♎24'21	1°34'40	morning set	14300 Nov 14 15:53	28°♎30'07	
max. Earth dist.	14299 Dec 07 06:11	29°♎11'10	1.31141 AU		14300 Nov 15 09:01	0°♎	
	14299 Dec 07 14:55	0°♏		max. Earth dist.	14300 Nov 20 13:26	11°♎13'36	1.31304 AU
evening rise	14299 Dec 14 04:04	14°♏26'01					
	14299 Dec 21 21:38	0°♎		superior conj	14300 Nov 21 20:39	14°♎06'48	1°23'40
desc. node	14299 Dec 27 07:01	9°♎31'29		minimum elong	14300 Nov 21 18:42	13°♎55'56	1°24'26
	14300 Jan 11 09:43	0°♎		evening rise	14300 Nov 28 13:20	28°♎54'28	
evening max el	14300 Jan 12 22:54	1°♎31'43	26°44'04		14300 Nov 29 01:30	0°♏	
retrograde	14300 Jan 26 22:09	8°♎41'36		desc. node	14300 Dec 14 03:59	28°♏03'34	
evening set	14300 Feb 02 12:00	6°♎53'54			14300 Dec 15 11:07	0°♎	
min. Earth dist.	14300 Feb 06 12:43	4°♎16'00	0.59123 AU	evening max el	14300 Dec 25 16:47	12°♎26'19	25°29'31
inferior conj	14300 Feb 09 17:10	1°♎47'32	-3°25'06	retrograde	14301 Jan 08 13:47	19°♎25'29	
minimum elong	14300 Feb 10 00:39	1°♎32'56	3°21'52	evening set	14301 Jan 14 11:28	18°♎05'42	
	14300 Feb 12 02:18	30°♎		min. Earth dist.	14301 Jan 19 05:12	15°♎26'02	0.57074 AU
morning rise	14300 Feb 17 16:29	27°♎10'55		inferior conj	14301 Jan 22 01:16	13°♎31'16	-4°46'57
direct	14300 Feb 19 16:54	26°♎56'13		minimum elong	14301 Jan 22 10:16	13°♎16'04	4°43'48
asc. node	14300 Feb 20 14:37	26°♎59'17		morning rise	14301 Jan 30 11:47	9°♎16'47	
	14300 Feb 26 15:29	0°♎		direct	14301 Feb 01 14:29	9°♎03'24	
morning max el	14300 Feb 27 12:17	0°♎48'16	18°15'33	asc. node	14301 Feb 07 12:03	10°♎55'12	
morning set	14300 Mar 15 04:50	25°♎45'22		morning max el	14301 Feb 10 15:39	13°♎27'45	19°00'44
	14300 Mar 17 10:43	0°♎			14301 Feb 21 21:56	0°♎	
				morning set	14301 Feb 27 03:50	10°♎05'06	
superior conj	14300 Mar 24 16:53	13°♎27'57	0°05'25				
minimum elong	14300 Mar 24 17:16	13°♎29'44	0°05'13	superior conj	14301 Mar 07 14:36	26°♎37'07	0°37'14
behind sun begin	14300 Mar 24 10:11	12°♎57'39		minimum elong	14301 Mar 07 16:48	26°♎47'36	0°37'03
behind sun end	14300 Mar 25 00:21	14°♎01'45			14301 Mar 09 09:26	0°♎	
desc. node	14300 Mar 25 08:53	14°♎40'09		desc. node	14301 Mar 12 05:22	5°♎14'46	
max. Earth dist.	14300 Apr 01 07:15	26°♎47'13	1.41249 AU	max. Earth dist.	14301 Mar 14 13:54	9°♎29'52	1.39004 AU
	14300 Apr 03 05:06	0°♎		evening rise	14301 Mar 18 09:30	16°♎10'11	
evening rise	14300 Apr 05 23:40	4°♎34'23			14301 Mar 26 19:38	0°♎	
	14300 Apr 22 15:15	0°♎			14301 Apr 17 06:02	0°♎	
evening max el	14300 May 09 23:28	21°♎55'12	23°07'45	evening max el	14301 Apr 22 13:11	5°♎48'00	24°28'26
asc. node	14300 May 19 11:15	27°♎58'20		retrograde	14301 May 04 01:28	12°♎32'24	
retrograde	14300 May 20 08:40	28°♎01'55		asc. node	14301 May 06 08:33	12°♎09'23	
evening set	14300 May 25 10:11	25°♎53'35		evening set	14301 May 09 14:32	10°♎11'58	
inferior conj	14300 May 30 18:27	19°♎28'27	2°49'55	min. Earth dist.	14301 May 14 03:40	4°♎59'37	0.68501 AU
minimum elong	14300 May 30 16:47	19°♎34'12	2°48'37	inferior conj	14301 May 15 02:50	3°♎41'53	2°23'46
min. Earth dist.	14300 May 30 07:56	20°♎04'49	0.68954 AU	minimum elong	14301 May 15 00:44	3°♎48'56	2°22'20
morning rise	14300 Jun 04 23:18	13°♎20'34			14301 May 18 00:56	30°♎	
direct	14300 Jun 09 08:20	11°♎34'27		morning rise	14301 May 20 11:06	27°♎42'21	
morning max el	14300 Jun 17 20:23	16°♎27'32	21°04'00	direct	14301 May 24 07:57	26°♎16'44	
desc. node	14300 Jun 21 10:01	20°♎22'29			14301 May 31 08:25	0°♎	
	14300 Jun 28 19:39	0°♎		morning max el	14301 May 31 19:46	0°♎27'21	19°52'19
morning set	14300 Jul 18 11:05	29°♎11'19		desc. node	14301 Jun 08 07:02	9°♎26'11	




































































































































	14301 Jun 22 09:17	0°☿			14302 Jun 15 06:41	0°☿	
morning set	14301 Jun 27 14:15	7°☿56'45		max. Earth dist.	14302 Jun 21 03:45	9°☿10'05	1.45640 AU
max. Earth dist.	14301 Jul 08 10:29	24°☿51'06	1.44654 AU				
	14301 Jul 11 15:58	0°♌		superior conj	14302 Jun 23 05:37	12°☿25'26	-2°13'41
				minimum elong	14302 Jun 23 04:59	12°☿23'00	2°14'44
superior conj	14301 Jul 13 13:21	3°♌02'45	-2°05'33		14302 Jul 04 07:26	0°♌	
minimum elong	14301 Jul 13 19:15	3°♌26'37	2°06'11	evening rise	14302 Jul 08 07:44	6°♌28'10	
evening rise	14301 Jul 27 00:29	25°♌25'08		asc. node	14302 Jul 20 04:43	25°♌24'37	
	14301 Jul 29 17:13	0°♍			14302 Jul 23 08:21	0°♍	
asc. node	14301 Aug 02 08:00	6°♍05'37		evening max el	14302 Jul 28 07:03	5°♍59'29	18°26'18
evening max el	14301 Aug 13 17:16	22°♍21'38	18°05'57	retrograde	14302 Aug 03 17:19	9°♍26'07	
retrograde	14301 Aug 20 02:29	25°♍42'02		evening set	14302 Aug 06 19:35	8°♍32'37	
evening set	14301 Aug 22 19:55	25°♍03'36		inferior conj	14302 Aug 12 14:22	3°♍00'17	2°28'57
inferior conj	14301 Aug 29 01:37	19°♍47'14	1°44'48	minimum elong	14302 Aug 12 16:40	2°♍53'27	2°27'50
minimum elong	14301 Aug 29 03:59	19°♍40'51	1°43'45	min. Earth dist.	14302 Aug 14 18:40	0°♍25'07	0.65001 AU
min. Earth dist.	14301 Aug 31 19:20	16°♍51'05	0.62955 AU		14302 Aug 15 03:25	30°♌♌	
morning rise	14301 Sep 04 09:54	13°♍35'12		morning rise	14302 Aug 18 12:28	26°♌38'19	
desc. node	14301 Sep 04 04:24	13°♍45'35		desc. node	14302 Aug 22 01:55	24°♌31'28	
direct	14301 Sep 11 01:56	11°♍06'37		direct	14302 Aug 25 00:31	24°♌00'04	
morning max el	14301 Sep 25 02:11	19°♍07'50	27°52'03		14302 Sep 05 12:47	0°♍	
	14301 Oct 04 07:52	0°♎		morning max el	14302 Sep 07 12:49	1°♍55'33	27°13'48
	14301 Oct 23 04:26	0°♏			14302 Sep 28 12:47	0°♎	
asc. node	14301 Oct 29 10:04	12°♏03'34		morning set	14302 Oct 13 00:16	25°♎36'28	
morning set	14301 Oct 29 12:49	12°♏17'25			14302 Oct 15 05:41	0°♏	
max. Earth dist.	14301 Nov 03 15:40	22°♏59'01	1.32009 AU	asc. node	14302 Oct 16 06:44	2°♏06'02	
				max. Earth dist.	14302 Oct 17 09:39	4°♏23'14	1.33270 AU
superior conj	14301 Nov 06 04:55	28°♏31'04	1°07'49				
minimum elong	14301 Nov 06 02:37	28°♏18'32	1°08'19	superior conj	14302 Oct 21 08:27	12°♏38'45	0°46'12
	14301 Nov 06 21:10	0°♐		minimum elong	14302 Oct 21 06:23	12°♏27'48	0°46'28
evening rise	14301 Nov 13 00:13	13°♐24'49		evening rise	14302 Oct 28 10:55	27°♏52'53	
	14301 Nov 21 05:12	0°♑			14302 Oct 29 10:56	0°♐	
desc. node	14301 Dec 01 01:04	15°♑38'44			14302 Nov 16 03:34	0°♑	
evening max el	14301 Dec 07 03:44	22°♑38'24	23°52'43	desc. node	14302 Nov 17 22:15	1°♑56'21	
retrograde	14301 Dec 20 16:36	29°♑22'13		evening max el	14302 Nov 18 14:46	2°♑37'46	22°10'25
evening set	14301 Dec 25 11:28	28°♑32'22		retrograde	14302 Dec 01 07:00	8°♑54'26	
min. Earth dist.	14301 Dec 31 14:56	25°♑32'35	0.55457 AU	evening set	14302 Dec 04 17:12	8°♑28'32	
inferior conj	14302 Jan 02 12:41	24°♑24'14	-5°45'31	inferior conj	14302 Dec 13 08:07	4°♑34'44	-5°55'50
minimum elong	14302 Jan 02 18:13	24°♑15'56	5°43'52	minimum elong	14302 Dec 13 04:57	4°♑39'10	5°54'35
morning rise	14302 Jan 11 02:44	20°♑28'20		min. Earth dist.	14302 Dec 12 21:04	4°♑50'13	0.54571 AU
direct	14302 Jan 13 16:28	20°♑11'41		morning rise	14302 Dec 21 17:43	0°♑47'33	
morning max el	14302 Jan 24 06:21	25°♑16'55	20°08'50	direct	14302 Dec 25 03:51	0°♑21'28	
asc. node	14302 Jan 25 09:25	26°♑25'30		morning max el	14303 Jan 06 06:11	6°♑09'59	21°39'26
	14302 Jan 28 09:29	0°♒		asc. node	14303 Jan 12 06:43	13°♑12'52	
morning set	14302 Feb 11 09:36	24°♒41'03			14303 Jan 22 04:35	0°♒	
	14302 Feb 13 23:48	0°♓		morning set	14303 Jan 26 19:23	9°♒24'40	
superior conj	14302 Feb 19 02:12	10°♓23'25	1°02'23	superior conj	14303 Feb 02 23:44	24°♒35'15	1°20'41
minimum elong	14302 Feb 19 04:53	10°♓36'53	1°02'28	minimum elong	14303 Feb 03 02:03	24°♒47'20	1°21'07
max. Earth dist.	14302 Feb 24 20:33	21°♓38'04	1.36766 AU		14303 Feb 05 14:33	0°♓	
desc. node	14302 Feb 27 01:52	25°♓46'43		max. Earth dist.	14303 Feb 07 08:10	3°♓30'33	1.34754 AU
evening rise	14302 Feb 28 14:57	28°♓35'48		evening rise	14303 Feb 11 12:31	11°♓40'47	
	14302 Mar 01 09:41	0°♔		desc. node	14303 Feb 13 22:23	16°♓11'28	
	14302 Mar 20 03:19	0°♕			14303 Feb 21 20:32	0°♔	
evening max el	14302 Apr 05 02:45	19°♕40'57	25°42'46		14303 Mar 15 08:55	0°♕	
retrograde	14302 Apr 17 13:49	26°♕51'39		evening max el	14303 Mar 18 16:37	3°♕26'53	26°43'21
asc. node	14302 Apr 23 05:55	24°♕39'31		retrograde	14303 Mar 31 20:32	10°♕51'34	
evening set	14302 Apr 23 14:00	24°♕22'59		evening set	14303 Apr 07 06:44	8°♕19'30	
min. Earth dist.	14302 Apr 27 20:12	19°♕46'20	0.67598 AU	asc. node	14303 Apr 10 03:20	5°♕35'58	
inferior conj	14302 Apr 29 07:57	17°♕52'32	1°46'57	min. Earth dist.	14303 Apr 11 07:18	4°♕17'17	0.66275 AU
minimum elong	14302 Apr 29 05:52	17°♕59'12	1°45'35	inferior conj	14303 Apr 13 07:34	1°♕54'38	0°58'49
morning rise	14302 May 04 22:16	12°♕02'42		minimum elong	14303 Apr 13 06:07	1°♕58'55	0°57'50
direct	14302 May 08 07:52	10°♕56'29			14303 Apr 14 23:13	30°♌♔	
morning max el	14302 May 15 02:33	14°♕36'28	18°55'36	morning rise	14303 Apr 19 06:41	26°♔16'15	
desc. node	14302 May 26 03:55	29°♕01'25		direct	14303 Apr 22 06:03	25°♔27'14	
	14302 May 26 19:38	0°♖		morning max el	14303 Apr 28 15:28	28°♔49'17	18°15'21
greatest brilliancy	14302 May 28 12:38	2°♖34'13	-0.8m		14303 Apr 29 18:53	0°♕	
morning set	14302 Jun 06 22:00	17°♖00'50		desc. node	14303 May 13 00:40	18°♕59'07	

morning set	14303 May 18 04:28	27°♄13'04		14304 Apr 23 08:21	0°♄	
	14303 May 19 22:16	0°♄		morning set	14304 Apr 28 15:01	8°♄46'43
				desc. node	14304 Apr 28 21:19	9°♄13'02
superior conj	14303 Jun 02 13:44	21°♄32'41 -2°01'43			14304 May 11 13:33	0°♄
minimum elong	14303 Jun 02 06:12	21°♄03'12 2°02'16				
max. Earth dist.	14303 Jun 03 23:50	23°♄45'52 1.45890 AU		superior conj	14304 May 12 07:17	1°♄10'56 -1°32'37
	14303 Jun 07 23:50	0°♄		minimum elong	14304 May 11 22:36	0°♄36'14 1°32'32
evening rise	14303 Jun 18 14:32	16°♄31'25		max. Earth dist.	14304 May 16 19:58	8°♄21'42 1.45388 AU
	14303 Jun 27 06:55	0°♄		evening rise	14304 May 28 04:27	25°♄58'09
greatest brilliancy	14303 Jun 29 10:05	3°♄15'30 -0.8m			14304 May 30 19:48	0°♄
asc. node	14303 Jul 07 01:31	14°♄16'56		greatest brilliancy	14304 Jun 12 00:10	18°♄12'45 -0.6m
evening max el	14303 Jul 11 17:24	19°♄45'58 19°03'55			14304 Jun 20 16:55	0°♄
retrograde	14303 Jul 18 13:24	23°♄32'06		asc. node	14304 Jun 22 22:24	2°♄33'12
evening set	14303 Jul 22 00:53	22°♄21'59		evening max el	14304 Jun 23 22:22	3°♄35'26 19°57'26
inferior conj	14303 Jul 27 12:18	16°♄35'12 2°56'09		retrograde	14304 Jul 01 11:59	7°♄53'11
minimum elong	14303 Jul 27 13:53	16°♄30'08 2°55'08		evening set	14304 Jul 05 09:14	6°♄25'54
min. Earth dist.	14303 Jul 29 02:07	14°♄33'59 0.66679 AU		inferior conj	14304 Jul 10 16:27	0°♄26'04 3°09'14
morning rise	14303 Aug 02 02:12	10°♄10'14		minimum elong	14304 Jul 10 17:03	0°♄24'02 3°08'16
direct	14303 Aug 08 06:02	7°♄31'52			14304 Jul 11 00:09	30°♄
desc. node	14303 Aug 08 23:22	7°♄33'50		min. Earth dist.	14304 Jul 11 16:03	29°♄06'21 0.67922 AU
morning max el	14303 Aug 20 24:00	15°♄07'31 26°09'13		morning rise	14304 Jul 16 00:30	24°♄02'36
	14303 Sep 02 05:07	0°♄		direct	14304 Jul 21 17:30	21°♄32'19
	14303 Sep 21 08:15	0°♄		desc. node	14304 Jul 25 20:45	22°♄36'51
morning set	14303 Sep 25 22:58	8°♄19'52		morning max el	14304 Aug 02 10:41	28°♄33'30 24°47'29
max. Earth dist.	14303 Sep 29 17:59	15°♄31'38 1.35043 AU			14304 Aug 03 19:51	0°♄
asc. node	14303 Oct 03 03:19	22°♄13'15			14304 Aug 25 22:47	0°♄
				morning set	14304 Sep 07 04:47	20°♄17'12
superior conj	14303 Oct 05 04:42	26°♄23'38 0°19'07		max. Earth dist.	14304 Sep 10 18:30	26°♄41'40 1.37213 AU
minimum elong	14303 Oct 05 03:38	26°♄18'10 0°19'16			14304 Sep 12 13:31	0°♄
	14303 Oct 06 22:44	0°♄				
evening rise	14303 Oct 12 19:29	12°♄14'01		superior conj	14304 Sep 17 14:29	9°♄36'59 -0°12'48
	14303 Oct 21 23:36	0°♄		minimum elong	14304 Sep 17 15:19	9°♄41'02 0°12'35
evening max el	14303 Oct 31 11:16	13°♄01'39 20°39'08		behind sun begin	14304 Sep 17 11:08	9°♄20'37
desc. node	14303 Nov 04 19:32	16°♄31'29		behind sun end	14304 Sep 17 19:30	10°♄01'30
retrograde	14303 Nov 11 17:24	18°♄37'28		asc. node	14304 Sep 18 23:51	12°♄20'45
evening set	14303 Nov 14 01:32	18°♄24'03		evening rise	14304 Sep 25 23:32	26°♄21'11
inferior conj	14303 Nov 22 23:41	14°♄29'51 -5°05'45			14304 Sep 27 19:19	0°♄
minimum elong	14303 Nov 22 14:03	14°♄43'44 5°02'34		evening max el	14304 Oct 12 21:58	24°♄11'36 19°27'55
min. Earth dist.	14303 Nov 24 03:04	13°♄50'25 0.54599 AU		desc. node	14304 Oct 21 16:55	28°♄58'19
morning rise	14303 Dec 01 02:29	10°♄33'25		retrograde	14304 Oct 22 12:44	29°♄00'22
direct	14303 Dec 05 12:00	9°♄51'58		evening set	14304 Oct 24 09:54	28°♄50'06
morning max el	14303 Dec 18 18:35	16°♄19'40 23°25'59		inferior conj	14304 Nov 02 01:53	24°♄43'31 -3°31'09
	14303 Dec 29 12:49	0°♄		minimum elong	14304 Nov 01 17:07	24°♄57'39 3°27'17
asc. node	14303 Dec 30 03:53	1°♄00'13		min. Earth dist.	14304 Nov 04 12:21	23°♄09'24 0.55544 AU
morning set	14304 Jan 11 07:05	24°♄10'01		morning rise	14304 Nov 09 22:15	20°♄18'10
	14304 Jan 14 00:00	0°♄		direct	14304 Nov 15 04:50	19°♄15'35
				morning max el	14304 Nov 29 04:09	26°♄16'35 25°13'34
superior conj	14304 Jan 18 04:12	9°♄04'10 1°32'19			14304 Dec 02 17:27	0°♄
minimum elong	14304 Jan 18 05:39	9°♄12'01 1°33'05		asc. node	14304 Dec 16 00:57	19°♄32'27
max. Earth dist.	14304 Jan 21 03:15	15°♄23'45 1.33120 AU			14304 Dec 21 13:00	0°♄
evening rise	14304 Jan 25 22:46	25°♄16'21		morning set	14304 Dec 25 18:50	8°♄51'20
	14304 Jan 28 08:48	0°♄				
desc. node	14304 Jan 31 19:00	6°♄24'44		superior conj	14305 Jan 01 13:03	23°♄42'34 1°37'37
	14304 Feb 15 07:38	0°♄		minimum elong	14305 Jan 01 13:27	23°♄44'44 1°38'36
evening max el	14304 Feb 29 05:54	16°♄55'11 27°22'43		max. Earth dist.	14305 Jan 03 05:23	27°♄24'22 1.31948 AU
retrograde	14304 Mar 13 20:51	24°♄23'49			14305 Jan 04 09:57	0°♄
evening set	14304 Mar 20 14:37	21°♄54'21		evening rise	14305 Jan 08 18:34	9°♄14'24
min. Earth dist.	14304 Mar 24 10:52	18°♄24'06 0.64571 AU		desc. node	14305 Jan 17 15:41	26°♄20'34
inferior conj	14304 Mar 26 23:09	15°♄41'58 -0°01'18			14305 Jan 19 17:49	0°♄
minimum elong	14304 Mar 26 23:11	15°♄41'51 0°01'27		evening max el	14305 Feb 10 16:46	29°♄53'25 27°34'11
transit middle	14304 Mar 26 23:11	15°♄41'51 0°01'27			14305 Feb 10 19:32	0°♄
transit begin	14304 Mar 26 20:07	15°♄50'08		retrograde	14305 Feb 24 14:00	7°♄18'44
transit end	14304 Mar 27 02:15	15°♄33'36		evening set	14305 Mar 03 11:09	4°♄59'15
asc. node	14304 Mar 27 00:46	15°♄37'35		min. Earth dist.	14305 Mar 07 05:14	1°♄56'09 0.62558 AU
morning rise	14304 Apr 02 09:43	10°♄17'27			14305 Mar 09 05:49	30°♄
direct	14304 Apr 05 00:03	9°♄42'39		inferior conj	14305 Mar 10 03:42	29°♄06'55 -1°13'25
morning max el	14304 Apr 11 08:15	12°♄58'57 17°52'11		minimum elong	14305 Mar 10 06:10	29°♄00'56 1°12'17

asc. node	14305 Mar 13 22:14	25° $\text{H}$ 47'30		morning rise	14306 Feb 28 08:52	7° $\text{H}$ 11'36	
morning rise	14305 Mar 17 03:59	23° $\text{H}$ 58'57		asc. node	14306 Feb 28 19:43	7° $\text{H}$ 05'03	
direct	14305 Mar 19 10:44	23° $\text{H}$ 34'54		direct	14306 Mar 02 10:23	6° $\text{H}$ 54'38	
morning max el	14305 Mar 26 01:57	26° $\text{H}$ 56'57	17°46'36	morning max el	14306 Mar 09 17:07	10° $\text{H}$ 33'06	17°59'21
	14305 Mar 28 18:46	0° $\text{Y}$			14306 Mar 22 12:56	0° $\text{Y}$	
morning set	14305 Apr 11 01:52	21° $\text{Y}$ 29'16		morning set	14306 Mar 25 06:50	5° $\text{Y}$ 01'42	
desc. node	14305 Apr 15 17:56	29° $\text{Y}$ 38'13		desc. node	14306 Apr 02 14:29	20° $\text{Y}$ 09'56	
	14305 Apr 15 22:58	0° $\text{X}$					
superior conj	14305 Apr 22 22:17	11° $\text{X}$ 50'46	-0°54'37	superior conj	14306 Apr 04 13:06	23° $\text{Y}$ 35'57	-0°15'33
minimum elong	14305 Apr 22 16:58	11° $\text{X}$ 28'37	0°54'28	minimum elong	14306 Apr 04 11:46	23° $\text{Y}$ 30'03	0°15'39
max. Earth dist.	14305 Apr 29 13:18	22° $\text{X}$ 40'34	1.44190 AU	behind sun begin	14306 Apr 04 10:10	23° $\text{Y}$ 23'01	
	14305 May 04 04:09	0° $\text{II}$		behind sun end	14306 Apr 04 13:22	23° $\text{Y}$ 37'05	
evening rise	14305 May 07 16:46	5° $\text{II}$ 28'59			14306 Apr 08 05:53	0° $\text{X}$	
	14305 May 24 04:17	0° $\text{X}$		max. Earth dist.	14306 Apr 12 02:06	6° $\text{X}$ 27'30	1.42433 AU
evening max el	14305 Jun 06 21:26	17° $\text{X}$ 25'54	21°04'31	evening rise	14306 Apr 17 18:05	15° $\text{X}$ 39'03	
asc. node	14305 Jun 09 19:24	20° $\text{X}$ 01'55			14306 Apr 27 01:23	0° $\text{II}$	
retrograde	14305 Jun 15 10:57	22° $\text{X}$ 24'17			14306 May 19 09:37	0° $\text{X}$	
evening set	14305 Jun 19 18:38	20° $\text{X}$ 40'11		evening max el	14306 May 20 15:24	1° $\text{X}$ 16'54	22°21'21
inferior conj	14305 Jun 25 00:25	14° $\text{X}$ 28'54	3°10'13	asc. node	14306 May 27 16:32	6° $\text{X}$ 27'21	
minimum elong	14305 Jun 25 00:01	14° $\text{X}$ 30'15	3°09'10	retrograde	14306 May 30 08:31	6° $\text{X}$ 59'19	
min. Earth dist.	14305 Jun 25 10:24	13° $\text{X}$ 54'10	0.68698 AU	evening set	14306 Jun 04 03:18	4° $\text{X}$ 59'31	
morning rise	14305 Jun 30 05:11	8° $\text{X}$ 09'55			14306 Jun 08 10:40	30° $\text{R}$ $\text{II}$	
direct	14305 Jul 05 10:01	5° $\text{X}$ 53'47		inferior conj	14306 Jun 09 10:04	28° $\text{II}$ 38'47	3°00'20
desc. node	14305 Jul 12 18:03	9° $\text{X}$ 15'03		minimum elong	14306 Jun 09 08:48	28° $\text{II}$ 43'12	2°59'08
morning max el	14305 Jul 15 21:32	12° $\text{X}$ 08'13	23°18'19	min. Earth dist.	14306 Jun 09 07:01	28° $\text{II}$ 49'26	0.68997 AU
	14305 Jul 30 05:01	0° $\text{Q}$		morning rise	14306 Jun 14 14:07	22° $\text{II}$ 26'18	
	14305 Aug 18 18:29	0° $\text{P}$		direct	14306 Jun 19 06:24	20° $\text{II}$ 28'24	
morning set	14305 Aug 19 13:20	1° $\text{P}$ 18'26		morning max el	14306 Jun 28 10:56	25° $\text{II}$ 50'27	21°50'42
max. Earth dist.	14305 Aug 23 16:34	8° $\text{P}$ 20'12	1.39576 AU	desc. node	14306 Jun 29 15:16	27° $\text{II}$ 03'44	
					14306 Jul 02 05:45	0° $\text{X}$	
superior conj	14305 Aug 31 10:03	22° $\text{P}$ 10'30	-0°47'51		14306 Jul 23 16:13	0° $\text{Q}$	
minimum elong	14305 Aug 31 13:36	22° $\text{P}$ 26'55	0°47'29	morning set	14306 Jul 30 21:17	11° $\text{Q}$ 15'13	
	14305 Sep 04 13:59	0° $\text{Q}$		max. Earth dist.	14306 Aug 05 18:20	20° $\text{Q}$ 48'13	1.41862 AU
asc. node	14305 Sep 05 20:24	2° $\text{Q}$ 25'27			14306 Aug 11 05:02	0° $\text{P}$	
evening rise	14305 Sep 09 20:16	10° $\text{Q}$ 07'24		superior conj	14306 Aug 13 10:59	3° $\text{P}$ 54'01	-1°23'00
	14305 Sep 20 23:43	0° $\text{M}$		minimum elong	14306 Aug 13 17:21	4° $\text{P}$ 21'52	1°22'41
evening max el	14305 Sep 25 21:41	6° $\text{M}$ 10'33	18°38'49	asc. node	14306 Aug 23 16:59	22° $\text{P}$ 23'13	
retrograde	14305 Oct 04 01:28	10° $\text{M}$ 17'24		evening rise	14306 Aug 24 05:56	23° $\text{P}$ 22'50	
evening set	14305 Oct 05 23:43	10° $\text{M}$ 04'24			14306 Aug 27 20:42	0° $\text{Q}$	
desc. node	14305 Oct 08 14:22	9° $\text{M}$ 08'51		evening max el	14306 Sep 09 06:23	18° $\text{Q}$ 49'47	18°10'47
inferior conj	14305 Oct 14 00:01	5° $\text{M}$ 38'40	-1°43'21	retrograde	14306 Sep 16 09:05	22° $\text{Q}$ 27'16	
minimum elong	14305 Oct 13 19:49	5° $\text{M}$ 46'33	1°41'08	evening set	14306 Sep 18 13:46	22° $\text{Q}$ 07'06	
min. Earth dist.	14305 Oct 17 03:35	3° $\text{M}$ 17'33	0.57237 AU	desc. node	14306 Sep 25 11:52	17° $\text{Q}$ 37'38	
morning rise	14305 Oct 21 12:30	0° $\text{M}$ 36'00		inferior conj	14306 Sep 25 19:49	17° $\text{Q}$ 20'17	-0°06'13
	14305 Oct 22 21:49	30° $\text{R}$ $\text{Q}$		minimum elong	14306 Sep 25 19:36	17° $\text{Q}$ 20'45	0°05'56
direct	14305 Oct 27 12:20	29° $\text{Q}$ 07'05		transit middle	14306 Sep 25 19:36	17° $\text{Q}$ 20'45	0°05'56
	14305 Nov 01 04:28	0° $\text{M}$		transit begin	14306 Sep 25 16:26	17° $\text{Q}$ 27'41	
morning max el	14305 Nov 10 18:33	6° $\text{M}$ 34'29	26°43'13	transit end	14306 Sep 25 22:47	17° $\text{Q}$ 13'48	
	14305 Nov 28 02:45	0° $\text{X}$		min. Earth dist.	14306 Sep 29 02:33	14° $\text{Q}$ 29'07	0.59384 AU
asc. node	14305 Dec 02 21:56	8° $\text{X}$ 38'10		morning rise	14306 Oct 02 22:04	11° $\text{Q}$ 43'38	
morning set	14305 Dec 10 04:54	23° $\text{X}$ 24'08		direct	14306 Oct 09 09:22	9° $\text{Q}$ 47'45	
	14305 Dec 13 05:34	0° $\text{Z}$		morning max el	14306 Oct 23 16:35	17° $\text{Q}$ 33'57	27°40'26
superior conj	14305 Dec 17 00:12	8° $\text{Z}$ 24'30	1°36'50		14306 Nov 03 01:21	0° $\text{M}$	
minimum elong	14305 Dec 16 23:32	8° $\text{Z}$ 20'46	1°37'52	asc. node	14306 Nov 19 18:50	28° $\text{M}$ 08'22	
max. Earth dist.	14305 Dec 17 12:10	9° $\text{Z}$ 31'21	1.31284 AU		14306 Nov 20 17:22	0° $\text{X}$	
evening rise	14305 Dec 23 21:19	23° $\text{Z}$ 28'55		morning set	14306 Nov 24 11:32	7° $\text{X}$ 43'50	
	14305 Dec 27 00:52	0° $\text{X}$					
desc. node	14306 Jan 04 12:28	15° $\text{X}$ 51'56		superior conj	14306 Dec 01 11:45	23° $\text{X}$ 04'27	1°30'09
	14306 Jan 13 14:59	0° $\text{H}$		minimum elong	14306 Dec 01 10:10	22° $\text{X}$ 55'42	1°31'04
evening max el	14306 Jan 23 22:57	12° $\text{H}$ 09'49	27°12'28	max. Earth dist.	14306 Nov 30 20:20	21° $\text{X}$ 38'24	1.31143 AU
retrograde	14306 Feb 06 22:43	19° $\text{H}$ 26'37			14306 Dec 04 14:12	0° $\text{Z}$	
evening set	14306 Feb 13 17:13	17° $\text{H}$ 25'22		evening rise	14306 Dec 08 04:49	7° $\text{Z}$ 54'23	
min. Earth dist.	14306 Feb 17 13:27	14° $\text{H}$ 41'15	0.60372 AU		14306 Dec 19 12:05	0° $\text{X}$	
inferior conj	14306 Feb 20 17:44	12° $\text{H}$ 00'20	-2°35'35	desc. node	14306 Dec 22 09:22	4° $\text{X}$ 49'31	
minimum elong	14306 Feb 20 23:24	11° $\text{H}$ 48'19	2°32'59	evening max el	14307 Jan 05 22:03	23° $\text{X}$ 36'15	26°16'04
					14307 Jan 15 16:43	0° $\text{H}$	

retrograde	14307 Jan 19 21:05	0° $\text{H}$ 41'35		evening max el	14307 Dec 18 12:41	4° $\approx$ 11'02	24°50'11
	14307 Jan 24 00:27	30° $\text{R}$ $\approx$		retrograde	14308 Jan 01 06:53	11° $\approx$ 03'42	
evening set	14307 Jan 26 05:03	29° $\approx$ 05'37		evening set	14308 Jan 06 18:34	9° $\approx$ 56'50	
min. Earth dist.	14307 Jan 30 11:30	26° $\approx$ 28'43	0.58210 AU	min. Earth dist.	14308 Jan 12 00:33	7° $\approx$ 11'10	0.56318 AU
inferior conj	14307 Feb 02 13:42	24° $\approx$ 12'57	-4°01'15	inferior conj	14308 Jan 14 12:51	5° $\approx$ 35'13	-5°16'08
minimum elong	14307 Feb 02 22:12	23° $\approx$ 57'20	3°57'50	minimum elong	14308 Jan 14 21:10	5° $\approx$ 21'57	5°13'31
morning rise	14307 Feb 10 18:24	19° $\approx$ 45'28		morning rise	14308 Jan 23 01:57	1° $\approx$ 29'13	
direct	14307 Feb 12 18:51	19° $\approx$ 31'50		direct	14308 Jan 25 08:22	1° $\approx$ 14'58	
asc. node	14307 Feb 15 17:10	20° $\approx$ 02'04		asc. node	14308 Feb 02 14:35	4° $\approx$ 39'47	
morning max el	14307 Feb 21 01:59	23° $\approx$ 36'55	18°32'03	morning max el	14308 Feb 04 00:17	5° $\approx$ 55'42	19°26'49
	14307 Feb 26 05:23	0° $\text{H}$			14308 Feb 19 07:18	0° $\text{H}$	
morning set	14307 Mar 09 00:32	19° $\text{H}$ 08'27		morning set	14308 Feb 21 02:47	3° $\text{H}$ 36'21	
	14307 Mar 14 16:16	0° $\text{Y}$					
superior conj	14307 Mar 18 00:52	6° $\text{Y}$ 18'15	0°19'40	superior conj	14308 Feb 29 04:59	19° $\text{H}$ 44'27	0°48'45
minimum elong	14307 Mar 18 02:13	6° $\text{Y}$ 24'29	0°19'26	minimum elong	14308 Feb 29 07:31	19° $\text{H}$ 56'50	0°48'39
desc. node	14307 Mar 20 11:00	10° $\text{Y}$ 44'48		desc. node	14308 Mar 05 14:26	0° $\text{Y}$	
max. Earth dist.	14307 Mar 25 10:49	19° $\text{Y}$ 35'40	1.40309 AU	max. Earth dist.	14308 Mar 06 07:30	1° $\text{Y}$ 18'38	
evening rise	14307 Mar 29 15:49	26° $\text{Y}$ 44'07		evening rise	14308 Mar 06 17:21	2° $\text{Y}$ 03'45	1.38041 AU
	14307 Mar 31 15:21	0° $\text{B}$			14308 Mar 10 10:19	8° $\text{Y}$ 41'50	
	14307 Apr 20 16:34	0° $\text{II}$		evening max el	14308 Mar 23 11:25	0° $\text{B}$	
evening max el	14307 May 03 06:15	15° $\text{II}$ 09'48	23°42'27		14308 Apr 14 19:48	29° $\text{B}$ 03'13	25°01'17
retrograde	14307 May 14 03:16	21° $\text{II}$ 33'08		retrograde	14308 Apr 15 19:22	0° $\text{II}$	
asc. node	14307 May 14 13:45	21° $\text{II}$ 32'17		asc. node	14308 Apr 26 18:07	5° $\text{II}$ 59'36	
evening set	14307 May 19 09:40	19° $\text{II}$ 19'30		evening set	14308 Apr 30 11:04	5° $\text{II}$ 00'52	
min. Earth dist.	14307 May 24 03:37	13° $\text{II}$ 46'12	0.68821 AU		14308 May 02 12:07	3° $\text{II}$ 35'03	
inferior conj	14307 May 24 19:27	12° $\text{II}$ 52'01	2°40'07	min. Earth dist.	14308 May 05 20:32	30° $\text{R}$ $\text{B}$	
minimum elong	14307 May 24 17:33	12° $\text{II}$ 58'31	2°38'44	inferior conj	14308 May 06 22:08	28° $\text{B}$ 38'15	0.68174 AU
morning rise	14307 May 30 01:25	6° $\text{II}$ 47'27		minimum elong	14308 May 08 02:40	27° $\text{B}$ 04'28	2°09'29
direct	14307 Jun 03 05:18	5° $\text{II}$ 09'50		morning rise	14308 May 08 00:30	27° $\text{B}$ 11'34	2°08'03
morning max el	14307 Jun 11 06:03	9° $\text{II}$ 43'17	20°31'48	direct	14308 May 13 13:11	21° $\text{B}$ 09'04	
desc. node	14307 Jun 16 12:21	15° $\text{II}$ 44'09		morning max el	14308 May 17 05:13	19° $\text{B}$ 51'50	
	14307 Jun 26 20:11	0° $\text{B}$			14308 May 24 08:38	23° $\text{B}$ 47'25	19°26'18
morning set	14307 Jul 10 07:22	20° $\text{B}$ 16'25		desc. node	14308 May 29 16:43	0° $\text{II}$	
	14307 Jul 16 12:25	0° $\text{Q}$		greatest brilliancy	14308 Jun 02 09:18	5° $\text{II}$ 02'17	
max. Earth dist.	14307 Jul 19 03:15	4° $\text{Q}$ 10'43	1.43796 AU	morning set	14308 Jun 05 23:54	10° $\text{II}$ 15'24	-0.7m
					14308 Jun 18 09:49	29° $\text{II}$ 02'45	
superior conj	14307 Jul 25 13:20	14° $\text{Q}$ 39'20	-1°53'08	max. Earth dist.	14308 Jun 19 00:43	0° $\text{B}$	
minimum elong	14307 Jul 25 20:40	15° $\text{Q}$ 09'46	1°53'20		14308 Jun 30 18:25	18° $\text{B}$ 15'05	1.45160 AU
	14307 Aug 03 14:11	0° $\text{P}$		superior conj	14308 Jul 04 16:21	24° $\text{B}$ 26'53	-2°11'19
evening rise	14307 Aug 06 23:57	5° $\text{P}$ 56'10		minimum elong	14308 Jul 04 20:01	24° $\text{B}$ 41'28	2°12'13
asc. node	14307 Aug 10 13:35	12° $\text{P}$ 10'03			14308 Jul 08 03:33	0° $\text{Q}$	
	14307 Aug 22 00:24	0° $\text{B}$		evening rise	14308 Jul 18 21:09	17° $\text{Q}$ 35'21	
evening max el	14307 Aug 23 19:50	1° $\text{B}$ 58'51	18°02'19		14308 Jul 26 09:12	0° $\text{P}$	
retrograde	14307 Aug 30 08:23	5° $\text{B}$ 21'23		asc. node	14308 Jul 27 10:15	1° $\text{P}$ 41'13	
evening set	14307 Sep 01 21:06	4° $\text{B}$ 50'22		evening max el	14308 Aug 06 10:21	15° $\text{P}$ 28'39	18°12'24
inferior conj	14307 Sep 08 10:41	29° $\text{P}$ 43'53	1°10'26	retrograde	14308 Aug 12 18:54	18° $\text{P}$ 50'13	
minimum elong	14307 Sep 08 12:35	29° $\text{P}$ 39'05	1°09'39	evening set	14308 Aug 15 16:03	18° $\text{P}$ 05'34	
	14307 Sep 08 04:16	30° $\text{R}$ $\text{P}$		inferior conj	14308 Aug 21 16:38	12° $\text{P}$ 41'52	2°05'45
min. Earth dist.	14307 Sep 11 10:42	26° $\text{P}$ 43'55	0.61677 AU	minimum elong	14308 Aug 21 19:04	12° $\text{P}$ 34'57	2°04'40
desc. node	14307 Sep 12 09:25	25° $\text{P}$ 50'52		min. Earth dist.	14308 Aug 24 04:44	9° $\text{P}$ 53'01	0.63858 AU
morning rise	14307 Sep 15 01:29	23° $\text{P}$ 41'58		morning rise	14308 Aug 27 20:23	6° $\text{P}$ 24'33	
direct	14307 Sep 21 17:31	21° $\text{P}$ 23'30		desc. node	14308 Aug 29 06:56	5° $\text{P}$ 24'27	
morning max el	14307 Oct 05 21:36	29° $\text{P}$ 21'06	27°58'51	direct	14308 Sep 03 11:09	3° $\text{P}$ 51'03	
	14307 Oct 06 13:03	0° $\text{B}$		morning max el	14308 Sep 17 07:13	11° $\text{P}$ 51'08	27°39'41
	14307 Oct 28 00:52	0° $\text{M}$			14308 Oct 01 17:55	0° $\text{B}$	
asc. node	14307 Nov 06 15:36	17° $\text{M}$ 55'23			14308 Oct 19 12:11	0° $\text{M}$	
morning set	14307 Nov 08 12:39	21° $\text{M}$ 44'38		morning set	14308 Oct 22 05:56	5° $\text{M}$ 21'28	
	14307 Nov 12 10:24	0° $\text{J}$		asc. node	14308 Oct 23 12:18	7° $\text{M}$ 53'58	
max. Earth dist.	14307 Nov 14 02:01	3° $\text{J}$ 35'24	1.31541 AU	max. Earth dist.	14308 Oct 27 01:24	15° $\text{M}$ 14'11	1.32486 AU
superior conj	14307 Nov 15 21:45	7° $\text{J}$ 36'05	1°17'39	superior conj	14308 Oct 30 04:16	21° $\text{M}$ 54'28	0°59'21
minimum elong	14307 Nov 15 19:35	7° $\text{J}$ 24'09	1°18'19	minimum elong	14308 Oct 30 02:00	21° $\text{M}$ 42'09	0°59'44
evening rise	14307 Nov 22 15:00	22° $\text{J}$ 24'39			14308 Nov 02 21:27	0° $\text{J}$	
	14307 Nov 26 05:20	0° $\text{B}$		evening rise	14308 Nov 06 02:04	6° $\text{J}$ 55'20	
desc. node	14307 Dec 09 06:23	22° $\text{B}$ 59'43			14308 Nov 18 01:36	0° $\text{B}$	
	14307 Dec 14 14:24	0° $\approx$		desc. node	14308 Nov 25 03:29	10° $\text{B}$ 05'05	



evening max el	14308 Nov 28 22:19	14°  12'40	23°08'37	desc. node	14309 Nov 12 00:42	25°  42'37	
retrograde	14308 Dec 12 03:57	20°  47'03			14309 Nov 19 19:27	0° 	
evening set	14308 Dec 16 09:18	20°  08'17		retrograde	14309 Nov 22 15:46	0°  19'34	
min. Earth dist.	14308 Dec 23 07:59	16°  54'20	0.54983 AU	evening set	14309 Nov 25 12:58	0°  00'32	
inferior conj	14308 Dec 24 16:22	16°  07'44	-5°57'00		14309 Nov 25 13:57	30°  R 	
minimum elong	14308 Dec 24 18:34	16°  04'34	5°55'52	inferior conj	14309 Dec 04 08:22	26°  7'08'00	-5°41'41
morning rise	14309 Jan 02 05:22	12°  17'42		minimum elong	14309 Dec 04 01:39	26°  7'17'26	5°39'44
direct	14309 Jan 05 02:54	11°  35'57'53		min. Earth dist.	14309 Dec 04 13:52	26°  7'00'16	0.54466 AU
morning max el	14309 Jan 16 08:41	17°  32'05'57	20°44'52	morning rise	14309 Dec 12 15:01	22°  7'19'11	
asc. node	14309 Jan 19 11:54	20°  34'50'00		direct	14309 Dec 16 10:49	21°  7'47'27	
	14309 Jan 25 21:02	0° 		morning max el	14309 Dec 29 03:03	27°  7'53'52	22°23'31
morning set	14309 Feb 04 10:31	18°  16'23			14309 Dec 31 04:35	0° 	
	14309 Feb 10 01:51	0° 		asc. node	14310 Jan 06 09:07	8°  3'00'04	
					14310 Jan 18 10:45	0° 	
superior conj	14309 Feb 11 21:13	3°  H42'56	1°11'00	morning set	14310 Jan 19 21:21	3°  11'42	
minimum elong	14309 Feb 11 23:50	3°  H56'15	1°11'12				
max. Earth dist.	14309 Feb 17 01:33	14°  H02'34	1.35871 AU	superior conj	14310 Jan 26 22:05	18°  11'03'40	1°26'25
evening rise	14309 Feb 20 23:01	21°  H24'54		minimum elong	14310 Jan 27 00:04	18°  14'13	1°27'00
desc. node	14309 Feb 21 04:01	21°  H47'58		max. Earth dist.	14310 Jan 30 15:54	25°  11'52'48	1.34002 AU
	14309 Feb 25 17:58	0° 			14310 Feb 01 16:41	0° 	
	14309 Mar 17 08:21	0° 		evening rise	14310 Feb 04 02:24	4°  H44'28	
evening max el	14309 Mar 28 09:16	12°  8'53'13	26°10'38	desc. node	14310 Feb 08 00:34	12°  H08'52	
retrograde	14309 Apr 10 04:09	20°  8'11'38			14310 Feb 18 12:30	0° 	
evening set	14309 Apr 16 08:56	17°  8'40'30		evening max el	14310 Mar 10 22:55	26°  Y'33'06	27°03'07
asc. node	14309 Apr 17 08:27	16°  8'48'21			14310 Mar 14 21:46	0° 	
min. Earth dist.	14309 Apr 20 12:28	13°  8'19'02	0.67083 AU	retrograde	14310 Mar 24 08:32	4°  8'01'31	
inferior conj	14309 Apr 22 05:41	11°  8'11'39	1°27'56	evening set	14310 Mar 30 22:13	1°  8'29'36	
minimum elong	14309 Apr 22 03:46	11°  8'17'33	1°26'41		14310 Apr 01 15:27	30°  R 	
morning rise	14309 Apr 27 23:26	5°  8'26'45		min. Earth dist.	14310 Apr 03 20:41	27°  Y'41'21	0.65585 AU
direct	14309 May 01 04:30	4°  8'28'20		asc. node	14310 Apr 04 05:52	27°  Y'15'39	
morning max el	14309 May 07 18:19	7°  8'59'04	18°36'28	inferior conj	14310 Apr 06 02:13	25°  Y'08'50	0°34'49
desc. node	14309 May 20 06:08	24°  8'47'47		minimum elong	14310 Apr 06 01:18	25°  Y'11'28	0°34'07
	14309 May 23 14:52	0° 		morning rise	14310 Apr 12 05:55	19°  Y'36'07	
morning set	14309 May 29 01:35	8°  II31'17		direct	14310 Apr 15 01:10	18°  Y'53'43	
	14309 Jun 11 19:23	0° 		morning max el	14310 Apr 21 09:16	22°  Y'12'16	18°03'24
max. Earth dist.	14309 Jun 13 13:07	2°  14'42'51	1.45830 AU		14310 Apr 27 15:12	0° 	
				desc. node	14310 May 07 02:51	14°  8'53'29	
superior conj	14309 Jun 14 03:01	3°  14'37'06	-2°11'04	morning set	14310 May 09 20:06	19°  8'18'47	
minimum elong	14309 Jun 13 23:02	3°  14'21'32	2°12'00		14310 May 16 10:37	0° 	
evening rise	14309 Jun 29 17:42	28°  11'43					
	14309 Jun 30 20:57	0° 		superior conj	14310 May 24 13:15	12°  II53'15	-1°51'02
greatest brilliancy	14309 Jul 07 09:38	10°  12'21'09	-0.9m	minimum elong	14310 May 24 04:26	12°  II18'32	1°51'17
asc. node	14309 Jul 14 07:00	20°  14'49'57		max. Earth dist.	14310 May 27 09:02	17°  II19'06	1.45759 AU
evening max el	14309 Jul 20 22:52	29°  10'10'30	18°40'15		14310 Jun 04 12:47	0° 	
	14309 Jul 21 19:51	0° 		evening rise	14310 Jun 09 15:48	7°  14'55'08	
retrograde	14309 Jul 27 12:26	2°  14'44'20		greatest brilliancy	14310 Jun 22 11:58	27°  14'29'20	-0.7m
evening set	14309 Jul 30 18:27	1°  14'44'01			14310 Jun 24 04:56	0° 	
	14309 Aug 01 22:46	30°  R 		asc. node	14310 Jul 01 03:51	9°  14'28'33	
inferior conj	14309 Aug 05 09:41	26°  14'05'16	2°42'22	evening max el	14310 Jul 04 07:05	12°  14'58'56	19°24'53
minimum elong	14309 Aug 05 11:44	25°  14'58'59	2°41'18	retrograde	14310 Jul 11 09:51	16°  14'57'19	
min. Earth dist.	14309 Aug 07 07:51	23°  14'43'10	0.65755 AU	evening set	14310 Jul 15 01:19	15°  14'40'09	
morning rise	14309 Aug 11 03:59	19°  14'41'03		inferior conj	14310 Jul 20 10:37	9°  14'47'50	3°03'18
desc. node	14309 Aug 16 04:26	17°  14'08'23		minimum elong	14310 Jul 20 11:47	9°  14'43'57	3°02'18
direct	14309 Aug 17 12:47	17°  14'01'39		min. Earth dist.	14310 Jul 21 18:25	8°  14'03'15	0.67261 AU
morning max el	14309 Aug 30 18:29	24°  14'51'24	26°49'06	morning rise	14310 Jul 25 21:42	3°  14'22'54	
	14309 Sep 04 10:32	0° 		direct	14310 Jul 31 21:14	0° 	
	14309 Sep 25 04:51	0° 		desc. node	14310 Aug 03 01:51	1°  14'04'55	
morning set	14309 Oct 05 12:26	18°  14'26'50		morning max el	14310 Aug 13 05:25	8°  14'10'08	25°35'54
max. Earth dist.	14309 Oct 09 15:20	26°  14'30'40	1.33965 AU		14310 Aug 30 08:03	0° 	
asc. node	14309 Oct 10 08:55	27°  14'59'06			14310 Sep 17 16:59	0° 	
	14309 Oct 11 08:43	0° 		morning set	14310 Sep 18 04:29	0° 	
				max. Earth dist.	14310 Sep 21 19:23	7°  14'34'35	1.35924 AU
superior conj	14309 Oct 14 05:01	5°  14'53'16	0°35'22	asc. node	14310 Sep 27 05:29	18°  14'20'03	
minimum elong	14309 Oct 14 03:16	5°  14'44'08	0°35'33				
evening rise	14309 Oct 21 12:06	21°  14'21'04		superior conj	14310 Sep 27 21:14	19°  14'25'52	0°06'07
	14309 Oct 25 16:52	0° 		minimum elong	14310 Sep 27 20:52	19°  14'24'00	0°06'16
evening max el	14309 Nov 10 12:14	24°  14'18'14	21°29'27	behind sun begin	14310 Sep 27 15:05	18°  14'25'58	

behind sun end	14310 Sep 28 02:40	19° $\Omega$ 53'05		asc. node	14311 Sep 14 02:04	8° $\Omega$ 14'13	
	14310 Oct 03 01:34	0° $\mathbb{M}$		evening rise	14311 Sep 19 20:21	19° $\Omega$ 36'22	
evening rise	14310 Oct 05 19:01	5° $\mathbb{M}$ 36'53			14311 Sep 25 05:24	0° $\mathbb{M}$	
	14310 Oct 19 09:12	0° $\mathcal{A}$		evening max el	14311 Oct 06 07:31	16° $\mathbb{M}$ 33'24	19°04'26
evening max el	14310 Oct 23 14:46	5° $\mathcal{A}$ 01'11	20°06'13	retrograde	14311 Oct 15 06:06	21° $\mathbb{M}$ 02'47	
desc. node	14310 Oct 29 22:02	9° $\mathcal{A}$ 26'10		desc. node	14311 Oct 16 19:27	20° $\mathbb{M}$ 55'09	
retrograde	14310 Nov 03 04:09	10° $\mathcal{A}$ 16'31		evening set	14311 Oct 17 02:56	20° $\mathbb{M}$ 51'50	
evening set	14310 Nov 05 05:41	10° $\mathcal{A}$ 05'24		inferior conj	14311 Oct 25 12:57	16° $\mathbb{M}$ 37'34	-2°45'18
inferior conj	14310 Nov 14 02:54	6° $\mathcal{A}$ 07'38	-4°29'18	minimum elong	14311 Oct 25 05:59	16° $\mathbb{M}$ 49'30	2°41'58
minimum elong	14310 Nov 13 16:49	6° $\mathcal{A}$ 22'44	4°25'28	min. Earth dist.	14311 Oct 28 08:32	14° $\mathbb{M}$ 42'09	0.56190 AU
min. Earth dist.	14310 Nov 15 21:12	5° $\mathcal{A}$ 04'16	0.54897 AU	morning rise	14311 Nov 02 06:19	11° $\mathbb{M}$ 57'05	
morning rise	14310 Nov 22 02:56	2° $\mathcal{A}$ 00'35		direct	14311 Nov 07 21:03	10° $\mathbb{M}$ 43'42	
direct	14310 Nov 26 22:01	1° $\mathcal{A}$ 10'34		morning max el	14311 Nov 21 23:46	17° $\mathbb{M}$ 55'58	25°54'52
morning max el	14310 Dec 10 13:00	7° $\mathcal{A}$ 53'49	24°12'38		14311 Dec 02 00:07	0° $\mathcal{A}$	
asc. node	14310 Dec 24 06:16	26° $\mathcal{A}$ 08'28		asc. node	14311 Dec 11 03:19	14° $\mathcal{A}$ 56'53	
	14310 Dec 26 11:15	0° $\mathcal{B}$			14311 Dec 18 17:24	0° $\mathcal{B}$	
morning set	14311 Jan 04 09:16	17° $\mathcal{B}$ 46'03		morning set	14311 Dec 19 20:34	2° $\mathcal{B}$ 24'59	
	14311 Jan 09 23:51	0° $\approx$					
superior conj	14311 Jan 11 04:41	2° $\approx$ 37'45	1°35'18	superior conj	14311 Dec 26 14:47	17° $\mathcal{B}$ 18'55	1°38'00
minimum elong	14311 Jan 11 05:42	2° $\approx$ 43'18	1°36'12	minimum elong	14311 Dec 26 14:43	17° $\mathcal{B}$ 18'33	1°39'02
max. Earth dist.	14311 Jan 13 14:06	7° $\approx$ 48'46	1.32563 AU	max. Earth dist.	14311 Dec 27 18:51	19° $\mathcal{B}$ 54'29	1.31610 AU
evening rise	14311 Jan 18 17:05	18° $\approx$ 31'07			14312 Jan 01 10:15	0° $\approx$	
	14311 Jan 24 15:29	0° $\mathcal{H}$		evening rise	14312 Jan 02 16:13	2° $\approx$ 37'49	
desc. node	14311 Jan 25 21:12	2° $\mathcal{H}$ 15'48		desc. node	14312 Jan 12 17:57	22° $\approx$ 02'52	
	14311 Feb 12 18:40	0° $\mathcal{Y}$			14312 Jan 17 11:32	0° $\mathcal{H}$	
evening max el	14311 Feb 21 11:35	9° $\mathcal{Y}$ 51'05	27°31'28	evening max el	14312 Feb 03 21:03	22° $\mathcal{H}$ 34'07	27°29'09
retrograde	14311 Mar 07 06:01	17° $\mathcal{Y}$ 19'07		retrograde	14312 Feb 17 19:30	29° $\mathcal{H}$ 55'15	
evening set	14311 Mar 14 01:38	14° $\mathcal{Y}$ 53'17		evening set	14312 Feb 24 16:24	27° $\mathcal{H}$ 42'50	
min. Earth dist.	14311 Mar 17 20:43	11° $\mathcal{Y}$ 34'59	0.63742 AU	min. Earth dist.	14312 Feb 28 10:52	24° $\mathcal{H}$ 48'53	0.61650 AU
inferior conj	14311 Mar 20 13:32	8° $\mathcal{Y}$ 48'16	-0°30'27	inferior conj	14312 Mar 02 12:24	22° $\mathcal{H}$ 01'31	-1°47'15
minimum elong	14311 Mar 20 14:30	8° $\mathcal{Y}$ 45'48	0°30'07	minimum elong	14312 Mar 02 16:11	21° $\mathcal{H}$ 52'52	1°45'28
asc. node	14311 Mar 22 03:19	7° $\mathcal{Y}$ 12'56		asc. node	14312 Mar 08 00:47	17° $\mathcal{H}$ 46'01	
morning rise	14311 Mar 27 05:42	3° $\mathcal{Y}$ 30'09		morning rise	14312 Mar 09 18:57	17° $\mathcal{H}$ 01'06	
direct	14311 Mar 29 16:32	3° $\mathcal{Y}$ 00'23		direct	14312 Mar 11 23:15	16° $\mathcal{H}$ 40'23	
morning max el	14311 Apr 05 02:47	6° $\mathcal{Y}$ 18'05	17°47'35	morning max el	14312 Mar 18 19:48	20° $\mathcal{H}$ 07'57	17°49'37
	14311 Apr 20 21:57	0° $\mathcal{B}$			14312 Mar 26 04:21	0° $\mathcal{Y}$	
morning set	14311 Apr 21 17:45	1° $\mathcal{B}$ 24'19		morning set	14312 Apr 03 13:02	14° $\mathcal{Y}$ 30'38	
desc. node	14311 Apr 23 23:30	5° $\mathcal{B}$ 12'56		desc. node	14312 Apr 09 20:06	25° $\mathcal{Y}$ 41'36	
					14312 Apr 12 07:28	0° $\mathcal{B}$	
superior conj	14311 May 04 15:00	22° $\mathcal{B}$ 55'24	-1°17'03	superior conj	14312 Apr 14 16:13	4° $\mathcal{B}$ 03'20	-0°37'48
minimum elong	14311 May 04 07:27	22° $\mathcal{B}$ 24'43	1°16'52	minimum elong	14312 Apr 14 12:41	3° $\mathcal{B}$ 48'17	0°37'44
	14311 May 09 00:38	0° $\mathbb{I}$		max. Earth dist.	14312 Apr 21 20:08	15° $\mathcal{B}$ 57'46	1.43511 AU
max. Earth dist.	14311 May 10 04:04	1° $\mathbb{I}$ 48'57	1.44960 AU	evening rise	14312 Apr 28 19:24	27° $\mathcal{B}$ 02'58	
evening rise	14311 May 20 02:56	17° $\mathbb{I}$ 18'23			14312 Apr 30 17:03	0° $\mathbb{I}$	
	14311 May 28 12:22	0° $\mathcal{E}$			14312 May 21 08:21	0° $\mathcal{E}$	
evening max el	14311 Jun 17 09:38	26° $\mathcal{E}$ 49'22	20°24'36	evening max el	14312 May 30 06:25	10° $\mathcal{E}$ 40'05	21°36'19
asc. node	14311 Jun 18 00:47	27° $\mathcal{E}$ 26'21		asc. node	14312 Jun 03 21:50	14° $\mathcal{E}$ 30'11	
	14311 Jun 21 05:27	0° $\Omega$		retrograde	14312 Jun 08 07:10	15° $\mathcal{E}$ 56'36	
retrograde	14311 Jun 25 08:41	1° $\Omega$ 23'10		evening set	14312 Jun 12 19:37	14° $\mathcal{E}$ 05'26	
evening set	14311 Jun 29 10:20	29° $\mathcal{E}$ 48'41		inferior conj	14312 Jun 18 01:33	7° $\mathcal{E}$ 49'55	3°07'18
	14311 Jun 29 04:20	30° $\mathcal{R}\mathcal{E}$		minimum elong	14312 Jun 18 00:46	7° $\mathcal{E}$ 52'38	3°06'11
inferior conj	14311 Jul 04 16:39	23° $\mathcal{E}$ 44'04	3°11'02	min. Earth dist.	14312 Jun 18 05:53	7° $\mathcal{E}$ 34'47	0.68889 AU
minimum elong	14311 Jul 04 16:49	23° $\mathcal{E}$ 43'28	3°10'02	morning rise	14312 Jun 23 05:43	1° $\mathcal{E}$ 33'47	
min. Earth dist.	14311 Jul 05 10:26	22° $\mathcal{E}$ 43'06	0.68314 AU		14312 Jun 25 14:10	30° $\mathcal{R}\mathbb{I}$	
morning rise	14311 Jul 09 23:00	17° $\mathcal{E}$ 22'22		direct	14312 Jun 28 05:16	29° $\mathbb{I}$ 25'09	
direct	14311 Jul 15 11:03	14° $\mathcal{E}$ 57'14			14312 Jul 01 00:36	0° $\mathcal{E}$	
desc. node	14311 Jul 20 23:13	16° $\mathcal{E}$ 51'29		desc. node	14312 Jul 06 20:30	4° $\mathcal{E}$ 02'10	
morning max el	14311 Jul 26 15:45	21° $\mathcal{E}$ 39'14	24°09'52	morning max el	14312 Jul 08 03:19	5° $\mathcal{E}$ 16'46	22°40'23
	14311 Aug 02 21:38	0° $\Omega$			14312 Jul 27 03:56	0° $\Omega$	
	14311 Aug 23 14:07	0° $\mathbb{M}$		morning set	14312 Aug 10 23:59	23° $\Omega$ 00'19	
morning set	14311 Aug 31 01:46	12° $\mathbb{M}$ 26'43			14312 Aug 15 04:58	0° $\mathbb{M}$	
max. Earth dist.	14311 Sep 03 17:56	18° $\mathbb{M}$ 52'59	1.38208 AU	max. Earth dist.	14312 Aug 15 17:31	0° $\mathbb{M}$ 53'07	1.40574 AU
	14311 Sep 09 19:12	0° $\underline{\Omega}$					
superior conj	14311 Sep 11 01:32	2° $\underline{\Omega}$ 24'01	-0°27'25	superior conj	14312 Aug 23 13:42	14° $\mathbb{M}$ 37'10	-1°03'00
minimum elong	14311 Sep 11 03:26	2° $\underline{\Omega}$ 33'06	0°27'07	minimum elong	14312 Aug 23 18:31	14° $\mathbb{M}$ 58'55	1°02'37
				asc. node	14312 Aug 30 22:37	28° $\mathbb{M}$ 16'23	

































































































































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evening rise	14312 Sep 02 12:52	3°♄10'44					
evening max el	14312 Sep 18 11:29	28°♄50'03	18°24'24	superior conj	14313 Aug 05 05:24	25°♄56'34	-1°36'46
	14312 Sep 19 17:50	0°♄		minimum elong	14313 Aug 05 12:34	26°♄27'14	1°36'38
retrograde	14312 Sep 26 03:18	2°♄43'04			14313 Aug 07 13:57	0°♄	
evening set	14312 Sep 28 03:56	2°♄27'29		evening rise	14313 Aug 16 16:34	16°♄10'18	
desc. node	14312 Oct 02 16:56	0°♄14'53		asc. node	14313 Aug 17 19:13	18°♄10'19	
	14312 Oct 03 01:33	30°♄			14313 Aug 24 12:44	0°♄	
inferior conj	14312 Oct 05 20:23	27°♄52'21	-0°59'58	evening max el	14313 Sep 01 22:37	11°♄42'50	18°04'49
minimum elong	14312 Oct 05 18:05	27°♄56'59	0°58'39	retrograde	14313 Sep 08 18:13	15°♄12'35	
min. Earth dist.	14312 Oct 09 02:35	25°♄16'17	0.58107 AU	evening set	14313 Sep 11 02:04	14°♄48'20	
morning rise	14312 Oct 13 04:45	22°♄34'24		inferior conj	14313 Sep 18 00:45	9°♄52'55	0°28'57
direct	14312 Oct 19 10:01	20°♄54'12		minimum elong	14313 Sep 18 01:40	9°♄50'47	0°28'41
morning max el	14312 Nov 02 17:26	28°♄30'02	27°12'15	desc. node	14313 Sep 19 14:26	8°♄24'33	
	14312 Nov 04 05:10	0°♄		min. Earth dist.	14313 Sep 21 05:32	6°♄55'10	0.60353 AU
	14312 Nov 24 18:25	0°♄		morning rise	14313 Sep 24 22:08	4°♄03'53	
asc. node	14312 Nov 27 00:16	4°♄14'05		direct	14313 Oct 01 12:04	1°♄57'36	
morning set	14312 Dec 03 05:25	16°♄52'58		morning max el	14313 Oct 15 18:53	9°♄50'28	27°53'09
	14312 Dec 09 04:46	0°♄			14313 Oct 31 09:45	0°♄	
				asc. node	14313 Nov 13 21:08	23°♄52'05	
superior conj	14312 Dec 10 02:19	2°♄00'29	1°34'43		14313 Nov 16 21:29	0°♄	
minimum elong	14312 Dec 10 01:14	1°♄54'27	1°35'43	morning set	14313 Nov 17 09:58	1°♄05'08	
max. Earth dist.	14312 Dec 10 02:51	2°♄03'29	1.31162 AU	max. Earth dist.	14313 Nov 23 10:19	14°♄06'34	1.31240 AU
evening rise	14312 Dec 16 21:13	16°♄57'30					
	14312 Dec 23 07:15	0°♄		superior conj	14313 Nov 24 13:25	16°♄37'12	1°25'35
desc. node	14312 Dec 29 14:48	11°♄21'25		minimum elong	14313 Nov 24 11:33	16°♄26'49	1°26'22
	14313 Jan 11 17:49	0°♄			14313 Nov 30 14:21	0°♄	
evening max el	14313 Jan 16 00:23	4°♄29'38	26°52'27	evening rise	14313 Dec 01 06:02	1°♄24'57	
retrograde	14313 Jan 29 23:47	11°♄41'29		desc. node	14313 Dec 16 11:43	0°♄00'33	
evening set	14313 Feb 05 15:11	9°♄49'56			14313 Dec 16 11:34	0°♄	
min. Earth dist.	14313 Feb 09 14:24	7°♄10'55	0.59446 AU	evening max el	14313 Dec 28 19:33	15°♄32'09	25°42'27
inferior conj	14313 Feb 12 19:09	4°♄38'38	-3°12'05	retrograde	14314 Jan 11 17:24	22°♄33'19	
minimum elong	14313 Feb 13 02:11	4°♄24'37	3°09'00	evening set	14314 Jan 17 18:00	21°♄09'16	
morning rise	14313 Feb 20 16:26	29°♄58'57		min. Earth dist.	14314 Jan 22 08:16	18°♄30'52	0.57351 AU
	14313 Feb 20 14:46	30°♄		inferior conj	14314 Jan 25 06:23	16°♄30'08	-4°35'35
direct	14313 Feb 22 16:59	29°♄43'48		minimum elong	14314 Jan 25 15:23	16°♄14'35	4°32'17
asc. node	14313 Feb 22 22:15	29°♄43'59		morning rise	14314 Feb 02 15:37	12°♄12'24	
	14313 Feb 24 18:07	0°♄		direct	14314 Feb 04 17:24	11°♄59'09	
morning max el	14313 Mar 02 08:47	3°♄31'52	18°10'43	asc. node	14314 Feb 09 19:42	13°♄24'36	
morning set	14313 Mar 17 23:59	28°♄19'29		morning max el	14314 Feb 13 13:44	16°♄18'22	18°52'35
	14313 Mar 18 21:24	0°♄			14314 Feb 23 05:39	0°♄	
				morning set	14314 Mar 01 21:44	12°♄36'22	
superior conj	14313 Mar 27 16:31	16°♄14'51	0°00'02				
minimum elong	14313 Mar 27 16:30	16°♄14'47	0°00'09	superior conj	14314 Mar 10 11:47	29°♄17'36	0°32'49
behind sun begin	14313 Mar 27 08:58	15°♄40'53		minimum elong	14314 Mar 10 13:48	29°♄27'09	0°32'36
behind sun end	14313 Mar 28 00:03	16°♄48'36			14314 Mar 10 20:45	0°♄	
desc. node	14313 Mar 27 16:39	16°♄15'27		desc. node	14314 Mar 14 13:08	6°♄50'24	
max. Earth dist.	14313 Apr 04 07:22	29°♄30'12	1.41563 AU	max. Earth dist.	14314 Mar 17 14:15	12°♄18'48	1.39342 AU
	14313 Apr 04 14:27	0°♄		evening rise	14314 Mar 21 11:41	19°♄03'52	
evening rise	14313 Apr 09 04:58	7°♄35'42			14314 Mar 28 03:12	0°♄	
	14313 Apr 23 19:46	0°♄			14314 Apr 18 02:07	0°♄	
evening max el	14313 May 12 22:40	24°♄31'38	22°55'38	evening max el	14314 Apr 25 12:34	8°♄24'33	24°16'40
	14313 May 20 09:59	0°♄		retrograde	14314 May 06 21:08	15°♄03'59	
asc. node	14313 May 21 18:59	0°♄24'07		asc. node	14314 May 08 16:14	14°♄49'49	
retrograde	14313 May 23 03:46	0°♄32'29		evening set	14314 May 12 08:25	12°♄45'17	
	14313 May 25 17:28	30°♄		min. Earth dist.	14314 May 16 22:46	7°♄27'25	0.68597 AU
evening set	14313 May 28 03:32	28°♄26'14		inferior conj	14314 May 17 20:00	6°♄15'41	2°28'24
inferior conj	14313 Jun 02 11:19	22°♄02'05	2°53'00	minimum elong	14314 May 17 17:57	6°♄22'38	2°27'00
minimum elong	14313 Jun 02 09:45	22°♄07'31	2°51'43	morning rise	14314 May 23 03:35	0°♄14'43	
min. Earth dist.	14313 Jun 02 02:43	22°♄31'56	0.68978 AU		14314 May 23 11:44	30°♄	
morning rise	14313 Jun 07 15:53	15°♄52'55		direct	14314 May 27 02:14	28°♄46'00	
direct	14313 Jun 12 02:43	14°♄03'48			14314 May 30 23:05	0°♄	
morning max el	14313 Jun 20 19:00	19°♄04'21	21°15'47	morning max el	14314 Jun 03 17:12	3°♄02'18	20°02'03
desc. node	14313 Jun 23 17:39	22°♄15'16		desc. node	14314 Jun 10 14:40	11°♄13'15	
	14313 Jun 29 20:56	0°♄			14314 Jun 23 15:28	0°♄	
	14313 Jul 20 07:01	0°♄		morning set	14314 Jul 01 02:08	11°♄19'27	
morning set	14313 Jul 21 21:49	2°♄31'39		max. Earth dist.	14314 Jul 11 09:30	27°♄25'36	1.44453 AU

	14314 Jul 13 00:13	0°♎		max. Earth dist.	14315 Jun 24 02:17	11°♎41'14	1.45543 AU
superior conj	14314 Jul 16 21:30	6°♎16'09	-2°02'46	superior conj	14315 Jun 26 16:07	15°♎44'00	-2°13'43
minimum elong	14314 Jul 17 03:57	6°♎42'25	2°03'16	minimum elong	14315 Jun 26 16:42	15°♎46'18	2°14'45
evening rise	14314 Jul 30 02:17	28°♎21'39			14315 Jul 05 15:24	0°♎	
	14314 Jul 31 01:16	0°♎		evening rise	14315 Jul 11 13:08	9°♎33'46	
asc. node	14314 Aug 04 15:50	7°♎51'03		asc. node	14315 Jul 22 12:30	27°♎13'17	
evening max el	14314 Aug 16 12:56	25°♎01'41	18°04'25		14315 Jul 24 08:38	0°♎	
retrograde	14314 Aug 22 22:40	28°♎22'05		evening max el	14315 Jul 31 02:59	8°♎37'44	18°22'11
evening set	14314 Aug 25 14:53	27°♎45'40		retrograde	14315 Aug 06 12:28	12°♎02'31	
inferior conj	14314 Aug 31 22:31	22°♎31'53	1°36'21	evening set	14315 Aug 09 13:26	11°♎11'18	
minimum elong	14314 Sep 01 00:48	22°♎25'50	1°35'23	inferior conj	14315 Aug 15 09:36	5°♎41'08	2°23'23
min. Earth dist.	14314 Sep 03 18:03	19°♎34'05	0.62632 AU	minimum elong	14315 Aug 15 11:57	5°♎34'13	2°22'17
desc. node	14314 Sep 06 11:57	17°♎01'50		min. Earth dist.	14315 Aug 17 15:56	3°♎02'06	0.64715 AU
morning rise	14314 Sep 07 08:28	16°♎22'13			14315 Aug 20 14:29	30°♎	
direct	14314 Sep 14 00:46	13°♎55'52		morning rise	14315 Aug 21 09:07	29°♎20'15	
morning max el	14314 Sep 28 02:05	21°♎56'30	27°54'56	desc. node	14315 Aug 24 09:27	27°♎27'39	
	14314 Oct 05 03:50	0°♎		direct	14315 Aug 27 22:01	26°♎43'00	
	14314 Oct 24 13:47	0°♎			14315 Sep 05 04:27	0°♎	
asc. node	14314 Oct 31 17:53	13°♎44'38		morning max el	14315 Sep 10 12:26	4°♎39'50	27°21'26
morning set	14314 Nov 01 08:03	14°♎56'26			14315 Sep 29 18:09	0°♎	
max. Earth dist.	14314 Nov 06 13:30	25°♎55'19	1.31866 AU	morning set	14315 Oct 15 21:05	28°♎20'17	
	14314 Nov 08 10:31	0°♎			14315 Oct 16 17:20	0°♎	
				asc. node	14315 Oct 18 14:32	3°♎46'21	
superior conj	14314 Nov 08 22:12	1°♎03'59	1°10'37	max. Earth dist.	14315 Oct 20 08:59	7°♎23'33	1.33050 AU
minimum elong	14314 Nov 08 19:55	0°♎51'30	1°11'08				
evening rise	14314 Nov 15 16:48	15°♎55'49		superior conj	14315 Oct 24 02:34	15°♎14'47	0°49'52
	14314 Nov 22 13:34	0°♎		minimum elong	14315 Oct 24 00:25	15°♎03'20	0°50'09
desc. node	14314 Dec 03 08:45	17°♎45'46			14315 Oct 30 22:59	0°♎	
evening max el	14314 Dec 10 07:23	25°♎50'05	24°08'01	evening rise	14315 Oct 31 03:40	0°♎24'56	
	14314 Dec 15 13:57	0°♎			14315 Nov 16 16:21	0°♎	
retrograde	14314 Dec 23 22:04	2°♎36'21		desc. node	14315 Nov 20 05:54	4°♎16'47	
evening set	14314 Dec 28 21:29	1°♎42'19		evening max el	14315 Nov 21 17:45	5°♎48'53	22°25'16
	14315 Jan 01 15:41	30°♎		retrograde	14315 Dec 04 13:46	12°♎10'27	
min. Earth dist.	14315 Jan 03 18:53	28°♎46'47	0.55655 AU	evening set	14315 Dec 08 04:58	11°♎41'30	
inferior conj	14315 Jan 05 20:47	27°♎31'07	-5°39'12	min. Earth dist.	14315 Dec 16 01:09	8°♎10'07	0.54650 AU
minimum elong	14315 Jan 06 03:15	27°♎21'16	5°37'19	inferior conj	14315 Dec 16 17:56	7°♎46'31	-5°58'08
morning rise	14315 Jan 14 10:52	23°♎32'44		minimum elong	14315 Dec 16 16:11	7°♎48'59	5°57'02
direct	14315 Jan 16 22:21	23°♎16'52		morning rise	14315 Dec 25 04:34	3°♎59'11	
morning max el	14315 Jan 27 06:30	28°♎15'49	19°57'11	direct	14315 Dec 28 11:20	3°♎34'53	
asc. node	14315 Jan 27 17:04	28°♎41'53		morning max el	14316 Jan 09 08:26	9°♎16'43	21°24'42
	14315 Jan 28 22:32	0°♎		asc. node	14316 Jan 14 14:22	15°♎18'38	
morning set	14315 Feb 14 02:42	27°♎10'54			14316 Jan 23 13:54	0°♎	
	14315 Feb 15 11:53	0°♎		morning set	14316 Jan 29 12:02	11°♎53'53	
superior conj	14315 Feb 21 21:35	12°♎59'23	0°59'01	superior conj	14316 Feb 05 17:51	27°♎07'59	1°18'20
minimum elong	14315 Feb 22 00:15	13°♎12'43	0°59'01	minimum elong	14316 Feb 05 20:16	27°♎20'30	1°18'43
max. Earth dist.	14315 Feb 27 20:48	24°♎32'16	1.37093 AU		14316 Feb 07 03:08	0°♎	
desc. node	14315 Mar 01 09:39	27°♎23'18		max. Earth dist.	14316 Feb 10 07:31	6°♎26'13	1.35034 AU
	14315 Mar 02 19:59	0°♎		evening rise	14316 Feb 14 09:50	14°♎22'42	
evening rise	14315 Mar 03 14:27	1°♎23'07		desc. node	14316 Feb 16 06:11	17°♎49'27	
	14315 Mar 21 06:58	0°♎			14316 Feb 23 04:24	0°♎	
evening max el	14315 Apr 08 02:10	22°♎18'12	25°32'22		14316 Mar 15 00:44	0°♎	
retrograde	14315 Apr 20 10:05	29°♎25'20		evening max el	14316 Mar 20 16:00	6°♎05'43	26°35'26
asc. node	14315 Apr 25 13:33	27°♎35'22		retrograde	14316 Apr 02 17:38	13°♎28'51	
evening set	14315 Apr 26 08:42	26°♎57'41		evening set	14316 Apr 09 02:33	10°♎56'51	
min. Earth dist.	14315 Apr 30 15:53	22°♎15'47	0.67767 AU	asc. node	14316 Apr 11 10:56	8°♎44'29	
inferior conj	14315 May 02 01:43	20°♎27'05	1°53'15	min. Earth dist.	14316 Apr 13 03:51	6°♎49'46	0.66501 AU
minimum elong	14315 May 01 23:36	20°♎33'55	1°51'52	inferior conj	14316 Apr 15 02:18	4°♎30'50	1°06'55
morning rise	14315 May 07 14:58	14°♎35'39		minimum elong	14316 Apr 15 00:43	4°♎35'36	1°05'50
direct	14315 May 11 02:14	13°♎26'35			14316 Apr 19 08:18	30°♎	
morning max el	14315 May 17 22:51	17°♎10'06	19°02'57	morning rise	14316 Apr 20 23:57	28°♎50'44	
	14315 May 27 23:27	0°♎		direct	14316 Apr 24 00:48	27°♎59'19	
desc. node	14315 May 28 11:34	0°♎44'18			14316 Apr 28 21:17	0°♎	
greatest brilliancy	14315 May 31 01:46	4°♎35'24	-0.7m	morning max el	14316 Apr 30 11:02	1°♎23'04	18°20'17
morning set	14315 Jun 10 07:45	20°♎16'41		desc. node	14316 May 14 08:22	20°♎39'17	
	14315 Jun 16 14:22	0°♎		morning set	14316 May 20 10:15	0°♎17'35	

	14316 May 20 05:49	0°♊		desc. node	14317 May 01 05:05	10°♊51'16	
				morning set	14317 May 01 16:46	11°♊39'41	
superior conj	14316 Jun 05 00:24	24°♊50'55 -2°04'46			14317 May 12 21:55	0°♊	
minimum elong	14316 Jun 04 17:37	24°♊24'26 2°05'27					
max. Earth dist.	14316 Jun 05 22:22	26°♊16'38 1.45901 AU		superior conj	14317 May 15 15:40	4°♊22'37 -1°37'49	
	14316 Jun 08 07:38	0°♊		minimum elong	14317 May 15 06:46	3°♊47'13 1°37'48	
evening rise	14316 Jun 20 23:25	19°♊45'40		max. Earth dist.	14317 May 19 18:35	10°♊53'24 1.45504 AU	
	14316 Jun 27 12:40	0°♊		evening rise	14317 May 31 15:03	29°♊15'42	
greatest brilliancy	14316 Jul 01 00:37	5°♊24'18 -0.8m			14317 Jun 01 02:37	0°♊	
asc. node	14316 Jul 08 09:16	16°♊10'20		greatest brilliancy	14317 Jun 15 01:43	21°♊00'32 -0.6m	
evening max el	14316 Jul 13 13:57	22°♊23'24 18°57'15			14317 Jun 21 12:38	0°♊	
retrograde	14316 Jul 20 08:01	26°♊05'59		asc. node	14317 Jun 25 06:09	4°♊32'56	
evening set	14316 Jul 23 18:05	24°♊58'23		evening max el	14317 Jun 26 19:48	6°♊12'44 19°48'30	
inferior conj	14316 Jul 29 06:23	19°♊13'32 2°53'00		retrograde	14317 Jul 04 06:26	10°♊25'17	
minimum elong	14316 Jul 29 08:05	19°♊08'06 2°51'57		evening set	14317 Jul 08 02:09	9°♊00'40	
min. Earth dist.	14316 Jul 30 22:19	17°♊06'43 0.66452 AU		inferior conj	14317 Jul 13 09:48	3°♊02'40 3°08'05	
morning rise	14316 Aug 03 21:21	12°♊48'36		minimum elong	14317 Jul 13 10:34	3°♊00'07 3°07'05	
direct	14316 Aug 10 02:31	10°♊09'50		min. Earth dist.	14317 Jul 14 11:30	1°♊36'22 0.67765 AU	
desc. node	14316 Aug 10 06:55	10°♊09'58			14317 Jul 15 17:04	30°♊	
morning max el	14316 Aug 22 23:45	17°♊49'30 26°20'12		morning rise	14317 Jul 18 18:34	26°♊38'36	
	14316 Sep 02 05:10	0°♊		direct	14317 Jul 24 13:15	24°♊06'38	
	14316 Sep 21 17:11	0°♊		desc. node	14317 Jul 28 04:21	24°♊56'23	
morning set	14316 Sep 27 21:55	11°♊09'40			14317 Aug 04 04:24	0°♊	
max. Earth dist.	14316 Oct 01 18:53	18°♊34'20 1.34752 AU		morning max el	14317 Aug 05 10:37	1°♊14'16 25°00'19	
asc. node	14316 Oct 04 11:08	23°♊53'11			14317 Aug 27 04:44	0°♊	
				morning set	14317 Sep 10 06:33	23°♊14'40	
superior conj	14316 Oct 07 00:04	29°♊03'26 0°23'33		max. Earth dist.	14317 Sep 13 20:08	29°♊41'42 1.36871 AU	
minimum elong	14316 Oct 06 22:47	28°♊56'52 0°23'43			14317 Sep 14 00:06	0°♊	
	14316 Oct 07 11:02	0°♊					
evening rise	14316 Oct 14 12:41	14°♊47'32		superior conj	14317 Sep 20 11:38	12°♊21'55 -0°07'44	
	14316 Oct 22 05:17	0°♊		minimum elong	14317 Sep 20 12:07	12°♊24'18 0°07'31	
evening max el	14316 Nov 02 12:16	16°♊06'44 20°51'32		behind sun begin	14317 Sep 20 06:18	11°♊55'44	
desc. node	14316 Nov 06 03:09	19°♊09'01		behind sun end	14317 Sep 20 17:56	12°♊52'56	
retrograde	14316 Nov 14 00:11	21°♊49'38		asc. node	14317 Sep 21 07:42	14°♊00'53	
evening set	14316 Nov 16 11:15	21°♊35'04		evening rise	14317 Sep 28 17:34	28°♊57'03	
inferior conj	14316 Nov 25 09:06	17°♊41'33 -5°16'53			14317 Sep 29 06:03	0°♊	
minimum elong	14316 Nov 24 23:58	17°♊54'35 5°13'59		evening max el	14317 Oct 15 20:51	27°♊09'27 19°37'09	
min. Earth dist.	14316 Nov 26 06:54	17°♊10'25 0.54536 AU			14317 Oct 19 07:08	0°♊	
morning rise	14316 Dec 03 12:51	13°♊47'47		desc. node	14317 Oct 24 00:31	1°♊56'30	
direct	14316 Dec 07 18:51	13°♊09'07		retrograde	14317 Oct 25 17:30	2°♊05'04	
morning max el	14316 Dec 20 22:09	19°♊31'21 23°09'39		evening set	14317 Oct 27 15:17	1°♊54'49	
	14316 Dec 29 13:07	0°♊			14317 Nov 01 18:23	30°♊	
asc. node	14316 Dec 31 11:35	2°♊57'48		inferior conj	14317 Nov 05 08:59	27°♊50'50 -3°47'03	
morning set	14317 Jan 12 23:33	26°♊39'09		minimum elong	14317 Nov 04 23:43	28°♊05'29 3°43'06	
	14317 Jan 14 13:02	0°♊		min. Earth dist.	14317 Nov 07 15:43	26°♊24'27 0.55349 AU	
				morning rise	14317 Nov 13 06:18	23°♊30'30	
superior conj	14317 Jan 19 21:28	11°♊34'47 1°30'57		direct	14317 Nov 18 10:00	22°♊31'18	
minimum elong	14317 Jan 19 23:04	11°♊43'24 1°31'42		morning max el	14317 Dec 02 07:37	29°♊28'14 24°58'14	
max. Earth dist.	14317 Jan 23 01:21	18°♊17'55 1.33333 AU			14317 Dec 02 20:47	0°♊	
evening rise	14317 Jan 27 18:23	27°♊53'56		asc. node	14317 Dec 18 08:42	21°♊24'16	
	14317 Jan 28 20:05	0°♊			14317 Dec 22 23:23	0°♊	
desc. node	14317 Feb 02 02:47	8°♊04'35		morning set	14317 Dec 28 11:25	11°♊21'36	
	14317 Feb 15 10:03	0°♊					
evening max el	14317 Mar 03 05:21	19°♊37'01 27°18'28		superior conj	14318 Jan 04 05:50	26°♊12'34 1°37'11	
retrograde	14317 Mar 16 19:02	27°♊05'59		minimum elong	14318 Jan 04 06:23	26°♊15'39 1°38'10	
evening set	14317 Mar 23 11:55	24°♊35'32			14318 Jan 05 23:19	0°♊	
min. Earth dist.	14317 Mar 27 08:38	21°♊00'53 0.64842 AU		max. Earth dist.	14318 Jan 06 02:29	0°♊17'15 1.32087 AU	
asc. node	14317 Mar 29 08:24	18°♊50'39		evening rise	14318 Jan 11 12:58	11°♊49'28	
inferior conj	14317 Mar 29 19:16	18°♊20'46 0°08'39		desc. node	14318 Jan 19 23:28	28°♊03'39	
minimum elong	14317 Mar 29 19:01	18°♊21'26 0°08'19			14318 Jan 21 01:41	0°♊	
transit middle	14317 Mar 29 19:01	18°♊21'26 0°08'19			14318 Feb 11 01:17	0°♊	
transit begin	14317 Mar 29 16:24	18°♊28'35		evening max el	14318 Feb 13 16:45	2°♊40'55 27°34'33	
transit end	14317 Mar 29 21:37	18°♊14'18		retrograde	14318 Feb 27 13:31	10°♊07'30	
morning rise	14317 Apr 05 03:59	12°♊54'10		evening set	14318 Mar 06 10:24	7°♊46'04	
direct	14317 Apr 07 19:32	12°♊17'31		min. Earth dist.	14318 Mar 10 04:36	4°♊39'14 0.62867 AU	
morning max el	14317 Apr 14 03:28	15°♊34'01 17°54'37		inferior conj	14318 Mar 13 01:43	1°♊50'05 -1°01'44	
	14317 Apr 24 14:42	0°♊		minimum elong	14318 Mar 13 03:46	1°♊45'02 1°00'49	

	14318 Mar 14 23:56	30° $\text{R}\text{H}$		asc. node	14319 Mar 03 03:23	9° $\text{H}59'44$	
asc. node	14318 Mar 16 05:53	28° $\text{H}55'23$		direct	14319 Mar 05 09:12	9° $\text{H}39'14$	
morning rise	14318 Mar 19 23:51	26° $\text{H}39'27$		morning max el	14319 Mar 12 13:03	13° $\text{H}14'41$	17°56'10
direct	14318 Mar 22 07:34	26° $\text{H}14'05$			14319 Mar 23 21:29	0° $\text{Y}$	
morning max el	14318 Mar 28 21:17	29° $\text{H}34'46$	17°46'18	morning set	14319 Mar 28 03:03	7° $\text{Y}39'29$	
	14318 Mar 29 07:22	0° $\text{Y}$		desc. node	14319 Apr 04 22:17	21° $\text{Y}46'04$	
morning set	14318 Apr 14 00:25	24° $\text{Y}13'25$					
	14318 Apr 17 08:18	0° $\text{Z}$		superior conj	14319 Apr 07 14:29	26° $\text{Y}28'10$	-0°21'19
desc. node	14318 Apr 18 01:43	1° $\text{Z}15'11$		minimum elong	14319 Apr 07 12:36	26° $\text{Y}19'58$	0°21'22
					14319 Apr 09 15:31	0° $\text{Z}$	
superior conj	14318 Apr 26 03:09	14° $\text{Z}52'46$	-1°00'37	max. Earth dist.	14319 Apr 15 01:52	9° $\text{Z}07'40$	1.42728 AU
minimum elong	14318 Apr 25 21:13	14° $\text{Z}28'10$	1°00'26	evening rise	14319 Apr 21 01:18	18° $\text{Z}46'10$	
max. Earth dist.	14318 May 02 12:15	25° $\text{Z}14'59$	1.44407 AU		14319 Apr 28 07:42	0° $\text{II}$	
	14318 May 05 12:04	0° $\text{II}$			14319 May 20 00:27	0° $\text{G}$	
evening rise	14318 May 11 02:34	8° $\text{II}43'27$		evening max el	14319 May 23 14:29	3° $\text{G}54'23$	22°09'29
	14318 May 25 08:01	0° $\text{G}$		asc. node	14319 May 30 00:15	8° $\text{G}46'00$	
evening max el	14318 Jun 09 19:47	20° $\text{G}03'22$	20°53'46	retrograde	14319 Jun 02 03:16	9° $\text{G}29'53$	
asc. node	14318 Jun 12 03:09	22° $\text{G}09'55$		evening set	14319 Jun 06 20:24	7° $\text{G}32'20$	
retrograde	14318 Jun 18 05:28	24° $\text{G}55'16$		inferior conj	14319 Jun 12 02:53	1° $\text{G}12'59$	3°02'28
evening set	14318 Jun 22 11:31	23° $\text{G}13'43$		minimum elong	14319 Jun 12 01:44	1° $\text{G}16'58$	3°01'18
inferior conj	14318 Jun 27 17:23	17° $\text{G}04'07$	3°10'47	min. Earth dist.	14319 Jun 12 01:46	1° $\text{G}16'53$	0.68987 AU
minimum elong	14318 Jun 27 17:08	17° $\text{G}04'58$	3°09'44		14319 Jun 12 23:53	30° $\text{R}11$	
min. Earth dist.	14318 Jun 28 05:24	16° $\text{G}22'26$	0.68617 AU	morning rise	14319 Jun 17 06:53	24° $\text{II}59'29$	
morning rise	14318 Jul 02 22:28	10° $\text{G}44'17$		direct	14319 Jun 22 01:05	22° $\text{II}58'39$	
direct	14318 Jul 08 05:13	8° $\text{G}25'34$		morning max el	14319 Jul 01 10:01	28° $\text{II}28'09$	22°03'19
desc. node	14318 Jul 15 01:42	11° $\text{G}21'50$		desc. node	14319 Jul 01 22:54	29° $\text{II}00'57$	
morning max el	14318 Jul 18 21:15	14° $\text{G}47'31$	23°31'36		14319 Jul 02 21:14	0° $\text{G}$	
	14318 Jul 31 07:12	0° $\text{Q}$			14319 Jul 24 22:32	0° $\text{Q}$	
	14318 Aug 20 02:53	0° $\text{P}$		morning set	14319 Aug 03 06:13	14° $\text{Q}31'13$	
morning set	14318 Aug 22 18:32	4° $\text{P}24'45$		max. Earth dist.	14319 Aug 08 19:04	23° $\text{Q}34'14$	1.41539 AU
max. Earth dist.	14318 Aug 26 17:52	11° $\text{P}13'04$	1.39225 AU		14319 Aug 12 14:24	0° $\text{P}$	
superior conj	14318 Sep 03 09:36	25° $\text{P}01'59$	-0°42'26	superior conj	14319 Aug 16 13:39	6° $\text{P}53'58$	-1°17'50
minimum elong	14318 Sep 03 12:42	25° $\text{P}16'27$	0°42'06	minimum elong	14319 Aug 16 19:39	7° $\text{P}20'25$	1°17'30
	14318 Sep 06 00:51	0° $\text{A}$		asc. node	14319 Aug 26 00:49	24° $\text{P}05'23$	
asc. node	14318 Sep 08 04:15	4° $\text{A}06'08$		evening rise	14319 Aug 27 03:13	26° $\text{P}07'41$	
evening rise	14318 Sep 12 15:36	12° $\text{A}46'42$			14319 Aug 29 05:27	0° $\text{A}$	
	14318 Sep 22 00:52	0° $\text{M}$		evening max el	14319 Sep 12 02:33	21° $\text{A}35'41$	18°13'39
evening max el	14318 Sep 28 18:54	9° $\text{M}01'35$	18°44'46	retrograde	14319 Sep 19 08:12	25° $\text{A}16'38$	
retrograde	14318 Oct 07 03:13	13° $\text{M}13'46$		evening set	14319 Sep 21 11:50	24° $\text{A}57'43$	
evening set	14318 Oct 09 00:54	13° $\text{M}01'26$		desc. node	14319 Sep 27 19:27	21° $\text{A}06'54$	
desc. node	14318 Oct 10 21:58	12° $\text{M}26'45$		inferior conj	14319 Sep 28 20:32	20° $\text{A}13'51$	-0°19'44
inferior conj	14318 Oct 17 03:52	8° $\text{M}38'52$	-1°59'19	minimum elong	14319 Sep 28 19:50	20° $\text{A}15'21$	0°19'12
minimum elong	14318 Oct 16 22:56	8° $\text{M}47'53$	1°56'48	min. Earth dist.	14319 Oct 02 03:28	17° $\text{A}26'00$	0.59049 AU
min. Earth dist.	14318 Oct 20 05:55	6° $\text{M}23'51$	0.56949 AU	morning rise	14319 Oct 06 00:26	14° $\text{A}41'53$	
morning rise	14318 Oct 24 17:40	3° $\text{M}41'59$		direct	14319 Oct 12 10:27	12° $\text{A}50'01$	
direct	14318 Oct 30 15:24	2° $\text{M}17'01$		morning max el	14319 Oct 26 17:43	20° $\text{A}33'25$	27°34'22
morning max el	14318 Nov 13 20:51	9° $\text{M}40'48$	26°31'41		14319 Nov 03 21:38	0° $\text{M}$	
	14318 Nov 29 07:32	0° $\text{J}$		asc. node	14319 Nov 22 02:37	29° $\text{M}52'45$	
asc. node	14318 Dec 05 05:43	10° $\text{J}25'42$			14319 Nov 22 04:05	0° $\text{J}$	
morning set	14318 Dec 12 21:51	25° $\text{J}55'55$		morning set	14319 Nov 27 05:06	10° $\text{J}17'49$	
	14318 Dec 14 18:51	0° $\text{Z}$		max. Earth dist.	14319 Dec 03 17:04	24° $\text{J}31'50$	1.31132 AU
superior conj	14318 Dec 19 16:45	10° $\text{Z}54'22$	1°37'20	superior conj	14319 Dec 04 04:20	25° $\text{J}34'48$	1°31'34
minimum elong	14318 Dec 19 16:14	10° $\text{Z}51'30$	1°38'22	minimum elong	14319 Dec 04 02:53	25° $\text{J}26'42$	1°32'29
max. Earth dist.	14318 Dec 20 08:47	12° $\text{Z}23'45$	1.31348 AU		14319 Dec 06 03:46	0° $\text{Z}$	
evening rise	14318 Dec 26 14:50	26° $\text{Z}02'05$		evening rise	14319 Dec 10 21:44	10° $\text{Z}26'13$	
	14318 Dec 28 12:31	0° $\text{A}$			14319 Dec 20 18:55	0° $\text{A}$	
desc. node	14319 Jan 06 20:13	17° $\text{A}39'17$		desc. node	14319 Dec 24 17:05	6° $\text{A}42'35$	
	14319 Jan 14 14:13	0° $\text{H}$		evening max el	14320 Jan 09 00:14	26° $\text{A}38'43$	26°26'32
evening max el	14319 Jan 26 23:56	15° $\text{H}04'46$	27°18'01		14320 Jan 13 00:35	0° $\text{H}$	
retrograde	14319 Feb 09 23:35	22° $\text{H}22'47$		retrograde	14320 Jan 22 23:20	3° $\text{H}45'25$	
evening set	14319 Feb 16 18:51	20° $\text{H}18'31$		evening set	14320 Jan 29 09:34	2° $\text{H}05'19$	
min. Earth dist.	14319 Feb 20 14:27	17° $\text{H}32'07$	0.60702 AU		14320 Feb 01 19:56	30° $\text{R}A$	
inferior conj	14319 Feb 23 18:11	14° $\text{H}49'00$	-2°22'42	min. Earth dist.	14320 Feb 02 13:49	29° $\text{A}28'21$	0.58527 AU
minimum elong	14319 Feb 23 23:22	14° $\text{H}37'49$	2°20'17	inferior conj	14320 Feb 05 17:00	27° $\text{A}07'54$	-3°48'32
morning rise	14319 Mar 03 07:06	9° $\text{H}57'03$		minimum elong	14320 Feb 06 01:11	26° $\text{A}52'32$	3°45'09

morning rise	14320 Feb 13 19:54	22° $\approx$ 37'07		inferior conj	14321 Jan 16 19:13	8° $\approx$ 37'22	-5°06'21
direct	14320 Feb 15 20:14	22° $\approx$ 23'10		minimum elong	14321 Jan 17 03:54	8° $\approx$ 23'15	5°03'33
asc. node	14320 Feb 18 00:50	22° $\approx$ 40'28		morning rise	14321 Jan 25 07:37	4° $\approx$ 28'34	
morning max el	14320 Feb 23 23:01	26° $\approx$ 23'28	18°25'48	direct	14321 Jan 27 12:33	4° $\approx$ 14'43	
	14320 Feb 27 02:29	0° $\text{H}$		asc. node	14321 Feb 03 22:13	7° $\approx$ 03'13	
morning set	14320 Mar 10 19:05	21° $\text{H}$ 41'36		morning max el	14321 Feb 05 23:09	8° $\approx$ 49'29	19°17'15
	14320 Mar 15 03:25	0° $\text{Y}$			14321 Feb 19 17:42	0° $\text{H}$	
				morning set	14321 Feb 22 20:16	6° $\text{H}$ 06'49	
superior conj	14320 Mar 19 23:21	9° $\text{Y}$ 02'17	0°14'42	superior conj	14321 Mar 03 01:19	22° $\text{H}$ 22'49	0°44'46
minimum elong	14320 Mar 20 00:23	9° $\text{Y}$ 07'04	0°14'28	minimum elong	14321 Mar 03 03:45	22° $\text{H}$ 34'37	0°44'37
behind sun begin	14320 Mar 19 21:20	8° $\text{Y}$ 53'04			14321 Mar 07 01:30	0° $\text{Y}$	
behind sun end	14320 Mar 20 03:26	9° $\text{Y}$ 21'03		desc. node	14321 Mar 08 15:17	2° $\text{Y}$ 54'38	
desc. node	14320 Mar 21 18:48	12° $\text{Y}$ 20'25		max. Earth dist.	14321 Mar 09 17:49	4° $\text{Y}$ 55'28	1.38374 AU
max. Earth dist.	14320 Mar 27 11:18	22° $\text{Y}$ 22'20	1.40643 AU	evening rise	14321 Mar 13 11:15	11° $\text{Y}$ 32'22	
evening rise	14320 Mar 31 19:45	29° $\text{Y}$ 42'14			14321 Mar 24 17:42	0° $\text{B}$	
	14320 Apr 01 00:03	0° $\text{B}$			14321 Apr 16 04:08	0° $\text{II}$	
	14320 Apr 20 18:47	0° $\text{II}$		evening max el	14321 Apr 17 19:07	1° $\text{II}$ 39'42	24°49'57
evening max el	14320 May 05 05:36	17° $\text{II}$ 46'32	23°30'21	retrograde	14321 Apr 29 14:00	8° $\text{II}$ 32'12	
retrograde	14320 May 15 22:28	24° $\text{II}$ 04'05		asc. node	14321 May 02 18:42	7° $\text{II}$ 48'09	
asc. node	14320 May 15 21:27	24° $\text{II}$ 04'04		evening set	14321 May 05 06:20	6° $\text{II}$ 08'55	
evening set	14320 May 21 03:12	21° $\text{II}$ 52'11		min. Earth dist.	14321 May 09 17:22	1° $\text{II}$ 06'46	0.68297 AU
min. Earth dist.	14320 May 25 22:26	16° $\text{II}$ 13'32	0.68878 AU	inferior conj	14321 May 10 20:03	29° $\text{B}$ 38'23	2°14'50
inferior conj	14320 May 26 12:23	15° $\text{II}$ 25'32	2°43'48	minimum elong	14321 May 10 17:54	29° $\text{B}$ 45'31	2°13'24
minimum elong	14320 May 26 10:35	15° $\text{II}$ 31'47	2°42'29		14321 May 10 13:32	30° $\text{R}$ $\text{B}$	
morning rise	14320 May 31 17:55	9° $\text{II}$ 19'50		morning rise	14321 May 16 05:43	23° $\text{B}$ 41'36	
direct	14320 Jun 04 23:36	7° $\text{II}$ 39'13		direct	14321 May 19 23:25	22° $\text{B}$ 21'30	
morning max el	14320 Jun 13 04:09	12° $\text{II}$ 19'13	20°42'49	morning max el	14321 May 27 05:38	26° $\text{B}$ 22'02	19°35'07
desc. node	14320 Jun 17 20:00	17° $\text{II}$ 34'18			14321 May 30 12:45	0° $\text{II}$	
	14320 Jun 27 00:14	0° $\text{B}$		desc. node	14321 Jun 04 16:59	6° $\text{II}$ 47'31	
morning set	14320 Jul 12 18:59	23° $\text{B}$ 39'04		greatest brilliancy	14321 Jun 08 20:52	12° $\text{II}$ 45'18	-0.6m
	14320 Jul 16 20:21	0° $\Omega$			14321 Jun 20 07:42	0° $\text{B}$	
max. Earth dist.	14320 Jul 21 03:08	6° $\Omega$ 50'00	1.43538 AU	morning set	14321 Jun 21 21:15	2° $\text{B}$ 23'55	
				max. Earth dist.	14321 Jul 03 17:19	20° $\text{B}$ 48'22	1.44996 AU
superior conj	14320 Jul 27 19:30	17° $\Omega$ 48'01	-1°49'10	superior conj	14321 Jul 08 01:44	27° $\text{B}$ 43'09	-2°09'39
minimum elong	14320 Jul 28 02:56	18° $\Omega$ 19'04	1°49'15	minimum elong	14321 Jul 08 06:19	28° $\text{B}$ 01'28	2°10'27
	14320 Aug 03 23:17	0° $\text{H}$			14321 Jul 09 11:51	0° $\Omega$	
evening rise	14320 Aug 08 23:54	8° $\text{H}$ 48'13		evening rise	14321 Jul 22 00:30	20° $\Omega$ 36'01	
asc. node	14320 Aug 11 21:24	13° $\text{H}$ 54'07			14321 Jul 27 15:28	0° $\text{H}$	
	14320 Aug 21 18:11	0° $\text{B}$		asc. node	14321 Jul 29 18:03	3° $\text{H}$ 27'54	
evening max el	14320 Aug 25 15:30	4° $\text{B}$ 40'40	18°02'20	evening max el	14321 Aug 09 06:03	18° $\text{H}$ 07'37	18°09'44
retrograde	14320 Sep 01 05:34	8° $\text{B}$ 04'42		retrograde	14321 Aug 15 14:41	21° $\text{H}$ 28'36	
evening set	14320 Sep 03 16:58	7° $\text{B}$ 35'32		evening set	14321 Aug 18 10:29	20° $\text{H}$ 46'12	
inferior conj	14320 Sep 10 08:49	2° $\text{B}$ 31'42	1°00'10	inferior conj	14321 Aug 24 12:47	15° $\text{H}$ 25'00	1°58'36
minimum elong	14320 Sep 10 10:30	2° $\text{B}$ 27'30	0°59'30	minimum elong	14321 Aug 24 15:13	15° $\text{H}$ 18'13	1°57'31
	14320 Sep 12 22:19	30° $\text{R}$ $\text{H}$		min. Earth dist.	14321 Aug 27 02:54	12° $\text{H}$ 33'13	0.63548 AU
min. Earth dist.	14320 Sep 13 10:11	29° $\text{H}$ 31'46	0.61336 AU	morning rise	14321 Aug 30 18:05	9° $\text{H}$ 09'14	
desc. node	14320 Sep 13 16:58	29° $\text{H}$ 15'56		desc. node	14321 Aug 31 14:29	8° $\text{H}$ 32'33	
morning rise	14320 Sep 17 01:18	26° $\text{H}$ 32'47		direct	14321 Sep 06 09:21	6° $\text{H}$ 37'18	
direct	14320 Sep 23 16:57	24° $\text{H}$ 17'21		morning max el	14321 Sep 20 07:05	14° $\text{H}$ 38'07	27°44'39
	14320 Oct 05 12:35	0° $\text{B}$			14321 Oct 02 19:18	0° $\text{B}$	
morning max el	14320 Oct 07 21:56	2° $\text{B}$ 13'51	27°58'38		14321 Oct 20 22:46	0° $\text{H}$	
	14320 Oct 28 07:31	0° $\text{H}$		morning set	14321 Oct 25 01:47	8° $\text{H}$ 02'11	
asc. node	14320 Nov 07 23:24	19° $\text{H}$ 37'28		asc. node	14321 Oct 25 20:07	9° $\text{H}$ 34'27	
morning set	14320 Nov 10 07:10	24° $\text{H}$ 21'36		max. Earth dist.	14321 Oct 29 23:51	18° $\text{H}$ 11'59	1.32309 AU
	14320 Nov 12 23:24	0° $\text{H}$					
max. Earth dist.	14320 Nov 15 23:23	6° $\text{H}$ 30'46	1.31448 AU	superior conj	14321 Nov 01 21:50	24° $\text{H}$ 28'04	1°02'30
				minimum elong	14321 Nov 01 19:32	24° $\text{H}$ 15'36	1°02'55
superior conj	14320 Nov 17 14:40	10° $\text{H}$ 07'39	1°19'57		14321 Nov 04 10:40	0° $\text{H}$	
minimum elong	14320 Nov 17 12:34	9° $\text{H}$ 56'02	1°20'37	evening rise	14321 Nov 08 18:40	9° $\text{H}$ 26'12	
evening rise	14320 Nov 24 07:37	24° $\text{H}$ 55'42			14321 Nov 19 05:39	0° $\text{B}$	
	14320 Nov 26 16:48	0° $\text{B}$		desc. node	14321 Nov 27 11:06	12° $\text{B}$ 16'48	
desc. node	14320 Dec 10 14:02	25° $\text{B}$ 00'34		evening max el	14321 Dec 02 01:44	17° $\text{B}$ 23'55	23°24'00
	14320 Dec 14 04:13	0° $\approx$		retrograde	14321 Dec 15 10:15	24° $\text{B}$ 02'01	
evening max el	14320 Dec 20 15:52	7° $\approx$ 19'39	25°04'18	evening set	14321 Dec 19 20:24	23° $\text{B}$ 19'31	
retrograde	14321 Jan 03 11:05	14° $\approx$ 14'40		min. Earth dist.	14321 Dec 26 12:02	20° $\text{B}$ 10'52	0.55130 AU
evening set	14321 Jan 09 02:34	13° $\approx$ 03'14					
min. Earth dist.	14321 Jan 14 03:53	10° $\approx$ 20'07	0.56571 AU				

inferior conj	14321 Dec 28 01:20	19°  16'32	-5°54'04			14322 Dec 06 14:01	30° 	
minimum elong	14321 Dec 28 04:50	19°  11'27	5°52'49	inferior conj	14322 Dec 07 18:23	29°  20'25	-5°48'03	
morning rise	14322 Jan 05 14:53	15°  24'45		minimum elong	14322 Dec 07 12:50	29°  28'12	5°46'23	
direct	14322 Jan 08 09:27	15°  06'13		min. Earth dist.	14322 Dec 07 18:07	29°  20'48	0.54483 AU	
morning max el	14322 Jan 19 09:48	20°  23'07	20°31'51	morning rise	14322 Dec 16 02:04	25°  32'30		
asc. node	14322 Jan 21 19:34	22°  56'14		direct	14322 Dec 19 18:27	25°  02'50		
	14322 Jan 26 23:54	0° 			14322 Dec 31 02:11	0° 		
morning set	14322 Feb 07 03:21	20°  45'25		morning max el	14323 Jan 01 06:04	1°  03'15	22°07'46	
	14322 Feb 11 14:27	0° 		asc. node	14323 Jan 08 16:51	10°  02'07		
					14323 Jan 19 22:20	0° 		
superior conj	14322 Feb 14 16:00	6°  17'12	1°08'02	morning set	14323 Jan 22 13:54	5°  30'28		
minimum elong	14322 Feb 14 18:39	6°  30'40	1°08'12					
max. Earth dist.	14322 Feb 20 01:19	16°  56'50	1.36175 AU	superior conj	14323 Jan 29 15:49	20°  35'14	1°24'28	
desc. node	14322 Feb 23 11:47	23°  11'24'51		minimum elong	14323 Jan 29 17:56	20°  46'24	1°25'01	
evening rise	14322 Feb 23 21:29	24°  09'25		max. Earth dist.	14323 Feb 02 14:39	28°  47'27	1.34258 AU	
	14322 Feb 27 03:32	0° 			14323 Feb 03 04:58	0° 		
	14322 Mar 18 08:52	0° 		evening rise	14323 Feb 06 22:59	7°  14'27		
evening max el	14322 Mar 31 08:34	15°  30'36	26°01'13	desc. node	14323 Feb 10 08:21	13°  11'17		
retrograde	14322 Apr 13 00:55	22°  46'48			14323 Feb 19 18:47	0° 		
evening set	14322 Apr 19 04:06	20°  16'22		evening max el	14323 Mar 13 22:21	29°  12'53	26°56'39	
asc. node	14322 Apr 19 16:04	19°  50'32			14323 Mar 14 18:12	0° 		
min. Earth dist.	14322 Apr 23 08:31	15°  49'39	0.67271 AU	retrograde	14323 Mar 27 06:10	6°  40'15		
inferior conj	14322 Apr 24 23:50	13°  46'46	1°35'02	evening set	14323 Apr 02 18:39	4°  08'14		
minimum elong	14322 Apr 24 21:51	13°  52'58	1°33'43	min. Earth dist.	14323 Apr 06 17:50	0°  15'05	0.65836 AU	
morning rise	14322 Apr 30 16:20	8°  00'06		asc. node	14323 Apr 06 13:29	0°  27'19		
direct	14322 May 03 22:57	6°  59'02			14323 Apr 06 23:10	30° 		
morning max el	14322 May 10 14:20	10°  32'51	18°42'49	inferior conj	14323 Apr 08 21:31	27°  14'54'48	0°43'44	
desc. node	14322 May 22 13:51	26°  02'29'25		minimum elong	14323 Apr 08 20:24	27°  14'49'05	0°42'54	
	14322 May 24 20:58	0° 		morning rise	14323 Apr 14 23:34	22°  10'59		
morning set	14322 Jun 01 09:49	11°  11'42'33		direct	14323 Apr 17 20:13	21°  10'26'21		
	14322 Jun 13 03:16	0° 		morning max el	14323 Apr 24 04:38	24°  14'45'54	18°07'12	
max. Earth dist.	14322 Jun 16 11:24	5°  12'37	1.45778 AU		14323 Apr 28 15:06	0° 		
				desc. node	14323 May 09 10:39	16°  32'25		
superior conj	14322 Jun 17 14:01	6°  56'35	-2°12'26	morning set	14323 May 13 00:05	22°  17'30		
minimum elong	14322 Jun 17 11:12	6°  45'33	2°13'26		14323 May 17 18:54	0° 		
	14322 Jul 02 04:25	0° 		superior conj	14323 May 27 23:10	16°  11'08'31	-1°55'09	
evening rise	14322 Jul 03 00:44	1°  21'11		minimum elong	14323 May 27 14:39	15°  35'08	1°55'31	
greatest brilliancy	14322 Jul 09 14:43	11°  52'09	-0.9m	max. Earth dist.	14323 May 30 07:20	19°  11'48'24	1.45824 AU	
asc. node	14322 Jul 16 14:46	22°  01'40'12			14323 Jun 05 20:30	0° 		
	14322 Jul 22 02:49	0° 		evening rise	14323 Jun 13 01:40	11°  10'36		
evening max el	14322 Jul 23 19:03	1°  11'47'59	18°35'03	greatest brilliancy	14323 Jun 25 05:36	29°  10'48'33	-0.7m	
retrograde	14322 Jul 30 07:20	5°  19'04			14323 Jun 25 08:40	0° 		
evening set	14322 Aug 02 12:00	4°  11'21'13		asc. node	14323 Jul 03 11:34	11°  10'23'35		
	14322 Aug 07 03:26	30° 		evening max el	14323 Jul 07 04:04	15°  35'34	19°17'16	
inferior conj	14322 Aug 08 04:25	28°  44'44	2°37'52	retrograde	14323 Jul 14 04:17	19°  10'29'21		
minimum elong	14322 Aug 08 06:34	28°  38'12	2°36'46	evening set	14323 Jul 17 18:22	18°  10'14'38		
min. Earth dist.	14322 Aug 10 04:46	26°  01'17'45	0.65497 AU	inferior conj	14323 Jul 23 04:21	12°  10'24'18	3°01'00	
morning rise	14322 Aug 14 00:00	22°  01'21'08		minimum elong	14323 Jul 23 05:40	12°  10'19'59	2°59'59	
desc. node	14322 Aug 18 11:59	19°  05'55'26		min. Earth dist.	14323 Jul 24 14:16	10°  10'33'43	0.67068 AU	
direct	14322 Aug 20 10:02	19°  04'15'52		morning rise	14323 Jul 28 16:22	5°  10'59'18		
morning max el	14322 Sep 02 18:12	27°  10'34'10	26°58'14	direct	14323 Aug 03 17:29	3°  10'22'12		
	14322 Sep 05 01:23	0° 		desc. node	14323 Aug 05 09:29	3°  10'32'40		
	14322 Sep 26 12:13	0° 		morning max el	14323 Aug 16 05:09	10°  10'50'04	25°47'50	
morning set	14322 Oct 08 10:07	21°  12'45			14323 Aug 31 11:32	0° 		
max. Earth dist.	14322 Oct 12 15:11	29°  10'30'56	1.33708 AU		14323 Sep 19 03:00	0° 		
asc. node	14322 Oct 12 16:46	29°  10'38'55		morning set	14323 Sep 21 04:34	3°  10'44'07		
	14322 Oct 12 20:56	0° 		max. Earth dist.	14323 Sep 24 20:36	10°  10'35'21	1.35605 AU	
				asc. node	14323 Sep 29 13:21	19°  10'46'25		
superior conj	14322 Oct 16 23:38	8°  30'24	0°39'21	superior conj	14323 Sep 30 17:21	22°  10'07'13	0°10'51	
minimum elong	14322 Oct 16 21:46	8°  30'20'32	0°39'35	minimum elong	14323 Sep 30 16:42	22°  10'03'58	0°11'01	
evening rise	14322 Oct 24 05:00	23°  30'53'04		behind sun begin	14323 Sep 30 12:10	21°  10'41'06		
	14322 Oct 27 03:26	0° 		behind sun end	14323 Sep 30 21:14	22°  10'42'52		
evening max el	14322 Nov 13 14:34	27°  10'27'18	21°43'33		14323 Oct 04 13:44	0° 		
desc. node	14322 Nov 14 08:18	28°  10'09'36		evening rise	14323 Oct 08 12:33	8°  10'33		
	14322 Nov 16 12:44	0° 			14323 Oct 20 06:36	0° 		
retrograde	14322 Nov 25 22:53	3°  34'14						
evening set	14322 Nov 29 00:23	3°  33'05						



evening max el	14323 Oct 26 14:57	8° $\text{♄}$ 03'06	20°17'22	retrograde	14324 Oct 17 09:40	24° $\text{♄}$ 03'08	
desc. node	14323 Nov 01 05:38	12° $\text{♄}$ 12'02		desc. node	14324 Oct 18 03:02	24° $\text{♄}$ 01'31	
retrograde	14323 Nov 06 10:12	13° $\text{♄}$ 25'34		evening set	14324 Oct 19 06:27	23° $\text{♄}$ 52'30	
evening set	14323 Nov 08 13:46	13° $\text{♄}$ 13'47		inferior conj	14324 Oct 27 18:41	19° $\text{♄}$ 40'57	-3°01'43
inferior conj	14323 Nov 17 11:35	9° $\text{♄}$ 17'34	-4°43'04	minimum elong	14324 Oct 27 11:03	19° $\text{♄}$ 53'47	2°58'09
minimum elong	14323 Nov 17 01:30	9° $\text{♄}$ 32'27	4°39'25	min. Earth dist.	14324 Oct 30 11:20	17° $\text{♄}$ 52'52	0.55949 AU
min. Earth dist.	14323 Nov 19 00:54	8° $\text{♄}$ 22'33	0.54774 AU	morning rise	14324 Nov 04 13:08	15° $\text{♄}$ 05'57	
morning rise	14323 Nov 25 12:33	5° $\text{♄}$ 14'39		direct	14324 Nov 10 01:08	13° $\text{♄}$ 56'29	
direct	14323 Nov 30 04:26	4° $\text{♄}$ 27'42		morning max el	14324 Nov 24 02:49	21° $\text{♄}$ 04'47	25°40'56
morning max el	14323 Dec 13 16:38	11° $\text{♄}$ 05'34	23°56'21		14324 Dec 01 20:31	0° $\text{♄}$	
asc. node	14323 Dec 26 14:02	28° $\text{♄}$ 03'16		asc. node	14324 Dec 12 11:08	16° $\text{♄}$ 46'03	
	14323 Dec 27 17:34	0° $\text{♄}$			14324 Dec 19 05:37	0° $\text{♄}$	
morning set	14324 Jan 07 01:48	20° $\text{♄}$ 15'09		morning set	14324 Dec 21 13:17	4° $\text{♄}$ 54'49	
	14324 Jan 11 13:25	0° $\text{♄}$					
superior conj	14324 Jan 13 21:44	5° $\text{♄}$ 07'30	1°34'21	superior conj	14324 Dec 28 07:25	19° $\text{♄}$ 47'28	1°37'59
minimum elong	14324 Jan 13 22:55	5° $\text{♄}$ 13'54	1°35'12	minimum elong	14324 Dec 28 07:31	19° $\text{♄}$ 48'01	1°39'00
max. Earth dist.	14324 Jan 16 11:51	10° $\text{♄}$ 42'26	1.32751 AU	max. Earth dist.	14324 Dec 29 15:47	22° $\text{♄}$ 46'31	1.31718 AU
evening rise	14324 Jan 21 12:12	21° $\text{♄}$ 07'16			14325 Jan 01 23:23	0° $\text{♄}$	
	14324 Jan 26 01:46	0° $\text{♄}$		evening rise	14325 Jan 04 10:11	5° $\text{♄}$ 10'45	
desc. node	14324 Jan 28 04:58	3° $\text{♄}$ 56'22		desc. node	14325 Jan 14 01:40	23° $\text{♄}$ 46'22	
	14324 Feb 13 16:36	0° $\text{♄}$			14325 Jan 17 17:05	0° $\text{♄}$	
evening max el	14324 Feb 24 11:23	12° $\text{♄}$ 34'51	27°28'59	evening max el	14325 Feb 05 21:22	25° $\text{♄}$ 23'14	27°31'37
retrograde	14324 Mar 09 04:39	20° $\text{♄}$ 02'59			14325 Feb 11 15:24	0° $\text{♄}$	
evening set	14324 Mar 15 23:41	17° $\text{♄}$ 35'48		retrograde	14325 Feb 19 19:20	2° $\text{♄}$ 45'46	
min. Earth dist.	14324 Mar 19 19:10	14° $\text{♄}$ 13'23	0.64039 AU	evening set	14325 Feb 26 16:32	0° $\text{♄}$ 30'42	
inferior conj	14324 Mar 22 10:25	11° $\text{♄}$ 28'06	-0°19'44		14325 Feb 27 10:38	30° $\text{♄}$	
minimum elong	14324 Mar 22 11:02	11° $\text{♄}$ 26'30	0°19'36	min. Earth dist.	14325 Mar 02 10:46	27° $\text{♄}$ 33'47	0.61971 AU
asc. node	14324 Mar 23 10:58	10° $\text{♄}$ 24'28		inferior conj	14325 Mar 05 11:21	24° $\text{♄}$ 45'26	-1°35'00
morning rise	14324 Mar 29 00:34	6° $\text{♄}$ 07'36		minimum elong	14325 Mar 05 14:39	24° $\text{♄}$ 37'44	1°33'26
direct	14324 Mar 31 12:37	5° $\text{♄}$ 36'06		asc. node	14325 Mar 10 08:29	20° $\text{♄}$ 47'44	
morning max el	14324 Apr 06 21:57	8° $\text{♄}$ 53'04	17°48'50	morning rise	14325 Mar 12 15:41	19° $\text{♄}$ 42'21	
	14324 Apr 21 06:17	0° $\text{♄}$		direct	14325 Mar 14 20:49	19° $\text{♄}$ 20'31	
morning set	14324 Apr 23 18:01	4° $\text{♄}$ 12'24		morning max el	14325 Mar 21 15:16	22° $\text{♄}$ 45'48	17°48'11
desc. node	14324 Apr 25 07:20	6° $\text{♄}$ 50'02			14325 Mar 27 07:42	0° $\text{♄}$	
				morning set	14325 Apr 06 10:26	17° $\text{♄}$ 10'30	
superior conj	14324 May 06 21:55	26° $\text{♄}$ 02'00	-1°22'45	desc. node	14325 Apr 12 03:54	27° $\text{♄}$ 17'17	
minimum elong	14324 May 06 13:53	25° $\text{♄}$ 29'35	1°22'35		14325 Apr 13 17:19	0° $\text{♄}$	
	14324 May 09 09:12	0° $\text{♄}$		superior conj	14325 Apr 17 19:30	6° $\text{♄}$ 59'50	-0°43'47
max. Earth dist.	14324 May 12 03:00	4° $\text{♄}$ 21'26	1.45125 AU	minimum elong	14325 Apr 17 15:20	6° $\text{♄}$ 42'15	0°43'41
evening rise	14324 May 22 13:30	20° $\text{♄}$ 34'34		max. Earth dist.	14325 Apr 24 19:37	18° $\text{♄}$ 34'11	1.43758 AU
	14324 May 28 18:30	0° $\text{♄}$		evening rise	14325 May 02 04:11	0° $\text{♄}$ 13'22	
asc. node	14324 Jun 19 08:29	29° $\text{♄}$ 28'26			14325 May 02 00:45	0° $\text{♄}$	
evening max el	14324 Jun 19 07:31	29° $\text{♄}$ 26'03	20°14'48		14325 May 22 09:25	0° $\text{♄}$	
	14324 Jun 19 21:25	0° $\text{♄}$		evening max el	14325 Jun 02 05:02	13° $\text{♄}$ 16'28	21°24'58
retrograde	14324 Jun 27 03:04	3° $\text{♄}$ 53'54		asc. node	14325 Jun 06 05:31	16° $\text{♄}$ 41'31	
evening set	14324 Jul 01 03:12	2° $\text{♄}$ 21'53		retrograde	14325 Jun 11 01:46	18° $\text{♄}$ 26'38	
	14324 Jul 03 13:19	30° $\text{♄}$		evening set	14325 Jun 15 12:33	16° $\text{♄}$ 37'51	
inferior conj	14324 Jul 06 09:47	26° $\text{♄}$ 18'55	3°10'37	inferior conj	14325 Jun 20 18:23	10° $\text{♄}$ 23'43	3°08'32
minimum elong	14324 Jul 06 10:06	26° $\text{♄}$ 17'48	3°09'37	minimum elong	14325 Jun 20 17:44	10° $\text{♄}$ 25'58	3°07'27
min. Earth dist.	14324 Jul 07 05:34	25° $\text{♄}$ 11'23	0.68189 AU	min. Earth dist.	14325 Jun 21 00:40	10° $\text{♄}$ 01'49	0.68833 AU
morning rise	14324 Jul 11 16:41	19° $\text{♄}$ 56'36		morning rise	14325 Jun 25 22:43	4° $\text{♄}$ 06'34	
direct	14324 Jul 17 06:30	17° $\text{♄}$ 29'36		direct	14325 Jul 01 00:05	1° $\text{♄}$ 55'20	
desc. node	14324 Jul 22 06:53	19° $\text{♄}$ 04'29		desc. node	14325 Jul 09 04:11	6° $\text{♄}$ 04'01	
morning max el	14324 Jul 28 15:36	24° $\text{♄}$ 18'20	24°23'07	morning max el	14325 Jul 11 02:53	7° $\text{♄}$ 55'00	22°53'35
	14324 Aug 02 18:05	0° $\text{♄}$			14325 Jul 28 08:36	0° $\text{♄}$	
	14324 Aug 23 21:33	0° $\text{♄}$		morning set	14325 Aug 14 06:48	26° $\text{♄}$ 10'06	
morning set	14324 Sep 02 04:56	15° $\text{♄}$ 26'47			14325 Aug 16 14:07	0° $\text{♄}$	
max. Earth dist.	14324 Sep 05 19:50	21° $\text{♄}$ 50'36	1.37859 AU	max. Earth dist.	14325 Aug 18 18:48	3° $\text{♄}$ 42'57	1.40232 AU
	14324 Sep 10 06:18	0° $\text{♄}$					
superior conj	14324 Sep 12 23:40	5° $\text{♄}$ 10'46	-0°22'08	superior conj	14325 Aug 26 14:28	17° $\text{♄}$ 31'00	-0°57'36
minimum elong	14324 Sep 13 01:10	5° $\text{♄}$ 18'01	0°21'52	minimum elong	14325 Aug 26 18:50	17° $\text{♄}$ 50'54	0°57'14
asc. node	14324 Sep 15 09:54	9° $\text{♄}$ 53'37		asc. node	14325 Sep 02 06:25	29° $\text{♄}$ 56'30	
evening rise	14324 Sep 21 14:54	22° $\text{♄}$ 12'47			14325 Sep 02 07:09	0° $\text{♄}$	
	14324 Sep 25 14:15	0° $\text{♄}$		evening rise	14325 Sep 05 08:58	5° $\text{♄}$ 51'24	
evening max el	14324 Oct 08 05:36	19° $\text{♄}$ 27'06	19°12'10		14325 Sep 19 20:12	0° $\text{♄}$	
				evening max el	14325 Sep 21 08:06	1° $\text{♄}$ 37'16	18°28'57

retrograde	14325 Sep 29 03:56	5° $\mathbb{M}$ 34'56		asc. node	14326 Aug 20 02:58	19° $\mathbb{M}$ 51'45	
evening set	14325 Oct 01 03:36	5° $\mathbb{M}$ 20'23			14326 Aug 25 18:56	0° $\mathbb{A}$	
desc. node	14325 Oct 05 00:30	3° $\mathbb{M}$ 38'07		evening max el	14326 Sep 04 18:27	14° $\mathbb{A}$ 25'27	18°06'28
inferior conj	14325 Oct 08 22:49	0° $\mathbb{M}$ 48'30	-1°15'06	retrograde	14326 Sep 11 16:19	17° $\mathbb{A}$ 57'37	
minimum elong	14325 Oct 08 19:52	0° $\mathbb{M}$ 54'17	1°13'28	evening set	14326 Sep 13 23:01	17° $\mathbb{A}$ 34'53	
	14325 Oct 09 23:23	30° $\mathbb{K}$ $\mathbb{A}$		inferior conj	14326 Sep 21 00:15	12° $\mathbb{A}$ 42'30	0°16'51
min. Earth dist.	14325 Oct 12 04:22	28° $\mathbb{A}$ 17'13	0.57795 AU	minimum elong	14326 Sep 21 00:48	12° $\mathbb{A}$ 41'14	0°16'45
morning rise	14325 Oct 16 08:39	25° $\mathbb{A}$ 35'42		desc. node	14326 Sep 21 22:01	11° $\mathbb{A}$ 52'33	
direct	14325 Oct 22 12:07	23° $\mathbb{A}$ 59'26		min. Earth dist.	14326 Sep 24 05:55	9° $\mathbb{A}$ 46'31	0.60016 AU
	14325 Nov 04 03:18	0° $\mathbb{M}$		morning rise	14326 Sep 27 23:19	6° $\mathbb{A}$ 57'33	
morning max el	14325 Nov 05 19:19	1° $\mathbb{M}$ 32'35	27°02'55	direct	14326 Oct 04 12:29	4° $\mathbb{A}$ 54'40	
	14325 Nov 26 02:42	0° $\mathbb{A}$		morning max el	14326 Oct 18 19:34	12° $\mathbb{A}$ 45'32	27°49'31
asc. node	14325 Nov 29 08:05	5° $\mathbb{A}$ 59'06			14326 Nov 01 12:16	0° $\mathbb{M}$	
morning set	14325 Dec 05 22:35	19° $\mathbb{A}$ 24'25		asc. node	14326 Nov 16 04:54	25° $\mathbb{M}$ 34'08	
	14325 Dec 10 18:39	0° $\mathbb{B}$			14326 Nov 18 09:40	0° $\mathbb{A}$	
				morning set	14326 Nov 20 03:51	3° $\mathbb{A}$ 39'02	
superior conj	14325 Dec 12 18:50	4° $\mathbb{B}$ 29'07	1°35'36	max. Earth dist.	14326 Nov 26 07:04	16° $\mathbb{A}$ 58'37	1.31191 AU
minimum elong	14325 Dec 12 17:53	4° $\mathbb{B}$ 23'54	1°36'36				
max. Earth dist.	14325 Dec 12 23:23	4° $\mathbb{B}$ 54'35	1.31186 AU	superior conj	14326 Nov 27 06:05	19° $\mathbb{A}$ 06'49	1°27'21
evening rise	14325 Dec 19 14:25	19° $\mathbb{B}$ 28'27		minimum elong	14326 Nov 27 04:19	18° $\mathbb{A}$ 56'58	1°28'11
	14325 Dec 24 17:40	0° $\mathbb{A}$			14326 Dec 02 03:36	0° $\mathbb{B}$	
desc. node	14325 Dec 31 22:27	13° $\mathbb{A}$ 09'40		evening rise	14326 Dec 03 22:46	3° $\mathbb{B}$ 55'01	
	14326 Jan 12 08:14	0° $\mathbb{K}$			14326 Dec 17 14:30	0° $\mathbb{A}$	
evening max el	14326 Jan 19 01:42	7° $\mathbb{K}$ 26'15	27°00'16	desc. node	14326 Dec 18 19:21	1° $\mathbb{A}$ 55'23	
retrograde	14326 Feb 02 01:21	14° $\mathbb{K}$ 40'10		evening max el	14326 Dec 31 22:12	18° $\mathbb{A}$ 36'41	25°54'52
evening set	14326 Feb 08 18:00	12° $\mathbb{K}$ 45'00		retrograde	14327 Jan 14 20:41	25° $\mathbb{A}$ 39'31	
min. Earth dist.	14326 Feb 12 15:55	10° $\mathbb{K}$ 04'33	0.59765 AU	evening set	14327 Jan 20 23:59	24° $\mathbb{A}$ 11'17	
inferior conj	14326 Feb 15 20:45	7° $\mathbb{K}$ 28'45	-2°59'03	min. Earth dist.	14327 Jan 25 11:13	21° $\mathbb{A}$ 33'44	0.57639 AU
minimum elong	14326 Feb 16 03:19	7° $\mathbb{K}$ 15'23	2°56'06	inferior conj	14327 Jan 28 11:01	19° $\mathbb{A}$ 27'26	-4°23'42
morning rise	14326 Feb 23 15:56	2° $\mathbb{K}$ 45'59		minimum elong	14327 Jan 28 19:56	19° $\mathbb{A}$ 11'42	4°20'20
asc. node	14326 Feb 25 05:58	2° $\mathbb{K}$ 31'03		morning rise	14327 Feb 05 18:48	15° $\mathbb{A}$ 06'18	
direct	14326 Feb 25 16:42	2° $\mathbb{K}$ 30'17		direct	14327 Feb 07 19:52	14° $\mathbb{A}$ 53'02	
morning max el	14326 Mar 05 05:09	6° $\mathbb{K}$ 14'45	18°06'18	asc. node	14327 Feb 12 03:24	15° $\mathbb{A}$ 55'45	
	14326 Mar 20 07:46	0° $\mathbb{Y}$		morning max el	14327 Feb 16 11:31	19° $\mathbb{A}$ 07'17	18°44'57
morning set	14326 Mar 20 19:24	0° $\mathbb{Y}$ 54'09			14327 Feb 24 11:45	0° $\mathbb{K}$	
desc. node	14326 Mar 30 00:24	17° $\mathbb{Y}$ 50'28		morning set	14327 Mar 04 15:48	15° $\mathbb{K}$ 07'33	
					14327 Mar 12 08:13	0° $\mathbb{Y}$	
superior conj	14326 Mar 30 16:35	19° $\mathbb{Y}$ 02'44	-0°05'27				
minimum elong	14326 Mar 30 16:07	19° $\mathbb{Y}$ 00'40	0°05'37	superior conj	14327 Mar 13 09:18	1° $\mathbb{Y}$ 58'27	0°28'14
behind sun begin	14326 Mar 30 08:51	18° $\mathbb{Y}$ 28'12		minimum elong	14327 Mar 13 11:07	2° $\mathbb{Y}$ 06'56	0°28'00
behind sun end	14326 Mar 30 23:24	19° $\mathbb{Y}$ 33'04		desc. node	14327 Mar 16 20:53	8° $\mathbb{Y}$ 25'20	
	14326 Apr 05 23:59	0° $\mathbb{B}$		max. Earth dist.	14327 Mar 20 14:42	15° $\mathbb{Y}$ 06'50	1.39682 AU
max. Earth dist.	14326 Apr 07 07:18	2° $\mathbb{B}$ 11'45	1.41874 AU	evening rise	14327 Mar 24 14:21	21° $\mathbb{Y}$ 58'19	
evening rise	14326 Apr 12 10:46	10° $\mathbb{B}$ 38'08			14327 Mar 29 11:17	0° $\mathbb{B}$	
	14326 Apr 25 01:02	0° $\mathbb{II}$			14327 Apr 19 00:39	0° $\mathbb{II}$	
evening max el	14326 May 15 21:48	27° $\mathbb{II}$ 07'41	22°43'32	evening max el	14327 Apr 28 12:00	11° $\mathbb{II}$ 00'38	24°04'46
	14326 May 19 02:09	0° $\mathbb{B}$		retrograde	14327 May 09 16:39	17° $\mathbb{II}$ 34'37	
asc. node	14326 May 24 02:40	2° $\mathbb{B}$ 47'08		asc. node	14327 May 10 23:55	17° $\mathbb{II}$ 27'08	
retrograde	14326 May 25 22:46	3° $\mathbb{B}$ 02'18		evening set	14327 May 15 02:12	15° $\mathbb{II}$ 17'41	
evening set	14326 May 30 20:46	0° $\mathbb{B}$ 58'15		min. Earth dist.	14327 May 19 17:47	9° $\mathbb{II}$ 54'20	0.68688 AU
	14326 May 31 21:31	30° $\mathbb{K}$ $\mathbb{II}$		inferior conj	14327 May 20 13:07	8° $\mathbb{II}$ 48'43	2°32'49
inferior conj	14326 Jun 05 04:08	24° $\mathbb{II}$ 35'10	2°55'49	minimum elong	14327 May 20 11:06	8° $\mathbb{II}$ 55'32	2°31'26
minimum elong	14326 Jun 05 02:40	24° $\mathbb{II}$ 40'15	2°54'35	morning rise	14327 May 25 20:03	2° $\mathbb{II}$ 46'24	
min. Earth dist.	14326 Jun 04 21:28	24° $\mathbb{II}$ 58'22	0.68997 AU	direct	14327 May 29 20:32	1° $\mathbb{II}$ 14'32	
morning rise	14326 Jun 10 08:28	18° $\mathbb{II}$ 24'45		morning max el	14327 Jun 06 14:46	5° $\mathbb{II}$ 36'38	20°12'06
direct	14326 Jun 14 21:11	16° $\mathbb{II}$ 32'34		desc. node	14327 Jun 12 22:21	13° $\mathbb{II}$ 00'32	
morning max el	14326 Jun 23 17:43	21° $\mathbb{II}$ 40'39	21°27'44		14327 Jun 24 21:22	0° $\mathbb{B}$	
desc. node	14326 Jun 26 01:19	24° $\mathbb{II}$ 08'39		morning set	14327 Jul 04 14:01	14° $\mathbb{B}$ 41'28	
	14326 Jun 30 20:41	0° $\mathbb{B}$			14327 Jul 14 08:37	0° $\mathbb{Q}$	
	14326 Jul 21 14:25	0° $\mathbb{Q}$		max. Earth dist.	14327 Jul 14 08:42	0° $\mathbb{Q}$ 00'19	1.44236 AU
morning set	14326 Jul 25 08:03	5° $\mathbb{Q}$ 49'59					
max. Earth dist.	14326 Jul 31 22:23	16° $\mathbb{Q}$ 26'35	1.42443 AU	superior conj	14327 Jul 20 05:08	9° $\mathbb{Q}$ 27'34	-1°59'38
				minimum elong	14327 Jul 20 12:01	9° $\mathbb{Q}$ 55'46	2°00'01
superior conj	14326 Aug 08 09:26	28° $\mathbb{Q}$ 58'50	-1°32'00		14327 Aug 01 09:53	0° $\mathbb{M}$	
minimum elong	14326 Aug 08 16:22	29° $\mathbb{Q}$ 28'44	1°31'47	evening rise	14327 Aug 02 03:33	1° $\mathbb{M}$ 16'04	
	14326 Aug 08 23:36	0° $\mathbb{M}$		asc. node	14327 Aug 06 23:35	9° $\mathbb{M}$ 35'00	
evening rise	14326 Aug 19 14:49	18° $\mathbb{M}$ 56'39		evening max el	14327 Aug 19 08:34	27° $\mathbb{M}$ 41'36	18°03'20

	14327 Aug 22 06:30	0°♄			14328 Jul 05 23:40	0°♄		
retrograde	14327 Aug 25 19:04	1°♄02'22		evening rise	14328 Jul 13 18:04	12°♄37'40		
evening set	14327 Aug 28 10:03	0°♄27'53		asc. node	14328 Jul 23 20:15	29°♄00'31		
	14327 Aug 29 08:18	30°♄			14328 Jul 24 11:33	0°♄		
inferior conj	14327 Sep 03 19:42	25°♄16'40	1°27'30	evening max el	14328 Aug 01 22:52	11°♄15'33	18°18'25	
minimum elong	14327 Sep 03 21:53	25°♄10'59	1°26'34	retrograde	14328 Aug 08 07:48	14°♄38'55		
min. Earth dist.	14327 Sep 06 16:54	22°♄17'44	0.62303 AU	evening set	14328 Aug 11 07:27	13°♄50'00		
desc. node	14327 Sep 08 19:31	20°♄20'00		inferior conj	14328 Aug 17 05:05	8°♄22'00	2°17'26	
morning rise	14327 Sep 10 07:20	19°♄09'35		minimum elong	14328 Aug 17 07:29	8°♄15'01	2°16'19	
direct	14327 Sep 16 23:44	16°♄45'47		min. Earth dist.	14328 Aug 19 13:27	5°♄39'20	0.64422 AU	
morning max el	14327 Oct 01 02:01	24°♄45'27	27°57'02	morning rise	14328 Aug 23 06:03	2°♄02'17		
	14327 Oct 05 20:48	0°♄		desc. node	14328 Aug 25 17:04	0°♄26'21		
	14327 Oct 25 22:39	0°♄			14328 Aug 26 17:21	30°♄		
asc. node	14327 Nov 03 01:38	15°♄24'58		direct	14328 Aug 29 19:41	29°♄26'13		
morning set	14327 Nov 04 03:04	17°♄34'00			14328 Sep 02 02:09	0°♄		
max. Earth dist.	14327 Nov 09 11:12	28°♄50'39	1.31744 AU	morning max el	14328 Sep 12 12:10	7°♄24'13	27°28'26	
	14327 Nov 09 23:57	0°♄			14328 Sep 29 22:48	0°♄		
					14328 Oct 17 04:55	0°♄		
superior conj	14327 Nov 11 15:22	3°♄35'47	1°13'15	morning set	14328 Oct 17 17:38	1°♄02'31		
minimum elong	14327 Nov 11 13:07	3°♄23'26	1°13'50	asc. node	14328 Oct 19 22:18	5°♄25'39		
evening rise	14327 Nov 18 09:24	18°♄26'06		max. Earth dist.	14328 Oct 22 08:11	10°♄22'59	1.32845 AU	
	14327 Nov 23 23:10	0°♄						
desc. node	14327 Dec 05 16:23	19°♄49'53		superior conj	14328 Oct 25 20:32	17°♄49'20	0°53'23	
evening max el	14327 Dec 13 10:57	29°♄00'03	24°22'58	minimum elong	14328 Oct 25 18:19	17°♄37'30	0°53'42	
	14327 Dec 14 12:56	0°♄			14328 Oct 31 11:37	0°♄		
retrograde	14327 Dec 27 03:00	5°♄48'29		evening rise	14328 Nov 01 20:22	2°♄55'56		
evening set	14328 Jan 01 06:54	4°♄50'05			14328 Nov 16 11:49	0°♄		
min. Earth dist.	14328 Jan 06 22:38	1°♄58'20	0.55874 AU	desc. node	14328 Nov 21 13:32	6°♄33'39		
inferior conj	14328 Jan 09 04:22	0°♄35'33	-5°31'52	evening max el	14328 Nov 23 20:51	8°♄59'01	22°40'14	
minimum elong	14328 Jan 09 11:38	0°♄24'19	5°29'44	retrograde	14328 Dec 06 20:25	15°♄25'16		
	14328 Jan 10 03:31	30°♄		evening set	14328 Dec 10 16:37	14°♄53'04		
morning rise	14328 Jan 17 18:19	26°♄34'33		min. Earth dist.	14328 Dec 18 05:09	11°♄28'08	0.54752 AU	
direct	14328 Jan 20 03:51	26°♄19'21		inferior conj	14328 Dec 19 03:33	10°♄56'26	-5°59'01	
	14328 Jan 28 22:27	0°♄		minimum elong	14328 Dec 19 03:14	10°♄56'54	5°57'58	
asc. node	14328 Jan 30 00:46	0°♄58'52		morning rise	14328 Dec 27 15:08	7°♄08'33		
morning max el	14328 Jan 30 06:14	1°♄11'55	19°46'07	direct	14328 Dec 30 18:36	6°♄45'56		
morning set	14328 Feb 16 19:52	29°♄39'43		morning max el	14329 Jan 11 10:25	12°♄21'08	21°10'25	
	14328 Feb 16 23:53	0°♄		asc. node	14329 Jan 15 22:05	17°♄24'40		
					14329 Jan 23 22:14	0°♄		
superior conj	14328 Feb 24 17:11	15°♄34'40	0°55'28	morning set	14329 Jan 31 04:42	14°♄21'52		
minimum elong	14328 Feb 24 19:50	15°♄47'45	0°55'26					
max. Earth dist.	14328 Mar 01 21:07	27°♄24'41	1.37421 AU	superior conj	14329 Feb 07 12:07	29°♄39'55	1°15'50	
desc. node	14328 Mar 02 17:24	28°♄58'25		minimum elong	14329 Feb 07 14:37	29°♄52'47	1°16'09	
	14328 Mar 03 06:50	0°♄			14329 Feb 07 16:01	0°♄		
evening rise	14328 Mar 05 14:17	4°♄09'59		max. Earth dist.	14329 Feb 12 06:58	9°♄20'17	1.35318 AU	
	14328 Mar 21 11:47	0°♄		evening rise	14329 Feb 16 07:25	17°♄03'57		
evening max el	14328 Apr 10 01:35	24°♄54'21	25°21'45	desc. node	14329 Feb 17 13:57	19°♄25'47		
	14328 Apr 16 07:42	0°♄			14329 Feb 23 13:06	0°♄		
retrograde	14328 Apr 22 06:13	1°♄57'48			14329 Mar 15 20:12	0°♄		
asc. node	14328 Apr 26 21:14	0°♄27'58		evening max el	14329 Mar 23 15:20	8°♄43'10	26°27'11	
	14328 Apr 27 12:56	30°♄		retrograde	14329 Apr 05 14:41	16°♄04'50		
evening set	14328 Apr 28 03:15	29°♄31'11		evening set	14329 Apr 11 22:13	13°♄32'58		
min. Earth dist.	14328 May 02 11:26	24°♄44'06	0.67919 AU	asc. node	14329 Apr 13 18:38	11°♄50'34		
inferior conj	14328 May 03 19:24	23°♄00'33	1°59'20	min. Earth dist.	14329 Apr 16 00:15	9°♄21'01	0.66711 AU	
minimum elong	14328 May 03 17:15	23°♄07'32	1°57'55	inferior conj	14329 Apr 17 20:54	7°♄05'53	1°14'45	
morning rise	14328 May 09 07:38	17°♄07'41		minimum elong	14329 Apr 17 19:11	7°♄11'06	1°13'35	
direct	14328 May 12 20:34	15°♄55'44		morning rise	14329 Apr 23 17:08	1°♄24'10		
morning max el	14328 May 19 19:21	19°♄43'06	19°10'47	direct	14329 Apr 26 19:28	0°♄30'19		
	14328 May 28 02:12	0°♄		morning max el	14329 May 03 06:45	3°♄56'11	18°25'39	
desc. node	14328 May 29 19:18	2°♄27'09		desc. node	14329 May 16 16:09	22°♄19'10		
greatest brilliancy	14328 Jun 01 16:52	6°♄43'07	-0.7m		14329 May 21 13:17	0°♄		
morning set	14328 Jun 12 18:07	23°♄33'44		morning set	14329 May 23 16:45	3°♄23'25		
	14328 Jun 16 22:07	0°♄						
max. Earth dist.	14328 Jun 26 01:05	14°♄12'43	1.45425 AU	superior conj	14329 Jun 08 11:19	28°♄09'17	-2°07'25	
				minimum elong	14329 Jun 08 05:25	27°♄46'16	2°08'12	
superior conj	14328 Jun 29 02:29	19°♄01'41	-2°13'17	max. Earth dist.	14329 Jun 08 20:58	28°♄46'55	1.45892 AU	
minimum elong	14328 Jun 29 04:14	19°♄08'36	2°14'17		14329 Jun 09 15:42	0°♄		

evening rise	14329 Jun 24 07:57	22°☿58'25		greatest brilliancy	14330 Jun 18 00:21	23°☿37'22	-0.6m
	14329 Jun 28 19:11	0°♊			14330 Jun 22 11:45	0°♊	
greatest brilliancy	14329 Jul 03 14:03	7°♊28'13	-0.8m	asc. node	14330 Jun 27 13:55	6°♊30'58	
asc. node	14329 Jul 10 17:02	18°♊02'11		evening max el	14330 Jun 29 17:09	8°♊49'23	19°39'54
evening max el	14329 Jul 16 10:27	25°♊00'15	18°50'56	retrograde	14330 Jul 07 00:55	12°♊56'53	
retrograde	14329 Jul 23 02:47	28°♊39'32		evening set	14330 Jul 10 19:07	11°♊34'54	
evening set	14329 Jul 26 11:25	27°♊34'30		inferior conj	14330 Jul 16 03:17	5°♊38'51	3°06'34
inferior conj	14329 Aug 01 00:40	21°♊51'40	2°49'27	minimum elong	14330 Jul 16 04:11	5°♊35'49	3°05'35
minimum elong	14329 Aug 01 02:30	21°♊45'53	2°48'24	min. Earth dist.	14330 Jul 17 07:07	4°♊05'59	0.67599 AU
min. Earth dist.	14329 Aug 02 18:46	19°♊39'21	0.66217 AU		14330 Jul 20 17:33	30°☿☿	
morning rise	14329 Aug 06 16:46	15°♊26'48		morning rise	14330 Jul 21 12:48	29°☿14'19	
direct	14329 Aug 12 23:13	12°♊47'45		direct	14330 Jul 27 09:12	26°☿40'42	
desc. node	14329 Aug 12 14:35	12°♊48'14		desc. node	14330 Jul 30 12:01	27°☿17'28	
morning max el	14329 Aug 25 23:37	20°♊31'16	26°30'42		14330 Aug 04 02:27	0°♊	
	14329 Sep 03 03:43	0°♋		morning max el	14330 Aug 08 10:32	3°♊54'20	25°12'57
	14329 Sep 23 01:56	0°♌			14330 Aug 28 10:18	0°♋	
morning set	14329 Sep 30 20:33	13°♌57'42		morning set	14330 Sep 13 07:54	26°♋10'20	
max. Earth dist.	14329 Oct 04 19:33	21°♌35'43	1.34468 AU		14330 Sep 15 10:40	0°♌	
asc. node	14329 Oct 06 18:56	25°♌32'01		max. Earth dist.	14330 Sep 16 21:35	2°♌41'00	1.36531 AU
	14329 Oct 08 23:32	0°♍					
superior conj	14329 Oct 09 19:14	1°♍41'39	0°27'53	superior conj	14330 Sep 23 08:32	15°♌05'28	-0°02'43
minimum elong	14329 Oct 09 17:46	1°♍34'05	0°28'04	minimum elong	14330 Sep 23 08:41	15°♌06'16	0°02'31
evening rise	14329 Oct 17 05:48	17°♍19'47		behind sun begin	14330 Sep 23 02:20	14°♌34'49	
	14329 Oct 23 12:57	0°♎		behind sun end	14330 Sep 23 15:02	15°♌37'47	
evening max el	14329 Nov 05 13:36	19°♎12'01	21°04'24	asc. node	14330 Sep 23 15:31	15°♌40'07	
desc. node	14329 Nov 08 10:47	21°♎42'46			14330 Sep 30 17:25	0°♍	
retrograde	14329 Nov 17 07:13	25°♎01'43		evening rise	14330 Oct 01 11:29	1°♍31'50	
evening set	14329 Nov 19 21:31	24°♎45'49			14330 Oct 18 16:52	0°♎	
inferior conj	14329 Nov 28 18:45	20°♎52'49	-5°26'49	evening max el	14330 Oct 18 20:06	0°♎08'06	19°46'54
minimum elong	14329 Nov 28 10:19	21°♎04'47	5°24'16	desc. node	14330 Oct 26 08:08	4°♎51'04	
min. Earth dist.	14329 Nov 29 10:53	20°♎29'57	0.54492 AU	retrograde	14330 Oct 28 22:39	5°♎10'37	
morning rise	14329 Dec 06 23:30	17°♎01'14		evening set	14330 Oct 30 21:23	5°♎00'14	
direct	14329 Dec 11 01:53	16°♎25'09		inferior conj	14330 Nov 08 16:34	0°♎58'43	-4°02'36
morning max el	14329 Dec 24 01:39	22°♎42'00	22°53'23	minimum elong	14330 Nov 08 06:54	1°♎13'42	3°58'38
	14329 Dec 30 09:53	0°♏			14330 Nov 10 06:22	30°☿♍	
asc. node	14330 Jan 02 19:19	4°♏55'47		min. Earth dist.	14330 Nov 10 19:16	29°♍40'13	0.55170 AU
morning set	14330 Jan 15 16:02	29°♏07'25		morning rise	14330 Nov 16 14:48	26°♍43'15	
	14330 Jan 16 01:54	0°♐		direct	14330 Nov 21 15:34	25°♍47'21	
					14330 Dec 02 08:26	0°♑	
superior conj	14330 Jan 22 14:50	14°♐04'57	1°29'28	morning max el	14330 Dec 05 11:09	2°♑39'52	24°42'30
minimum elong	14330 Jan 22 16:34	14°♐14'18	1°30'08	asc. node	14330 Dec 20 16:27	23°♑16'31	
max. Earth dist.	14330 Jan 25 23:34	21°♐11'24	1.33556 AU		14330 Dec 24 08:58	0°♒	
	14330 Jan 30 07:52	0°♑		morning set	14330 Dec 31 03:58	13°♒51'10	
evening rise	14330 Jan 30 14:14	0°♑31'21					
desc. node	14330 Feb 04 10:31	9°♑43'06		superior conj	14331 Jan 06 22:39	28°♒42'08	1°36'39
	14330 Feb 16 13:57	0°♒		minimum elong	14331 Jan 06 23:22	28°♒46'07	1°37'35
evening max el	14330 Mar 06 04:46	22°♒17'31	27°13'39		14331 Jan 07 12:51	0°♓	
retrograde	14330 Mar 19 17:10	29°♒46'44		max. Earth dist.	14331 Jan 08 23:41	3°♓09'50	1.32243 AU
evening set	14330 Mar 26 09:01	27°♒15'32		evening rise	14331 Jan 14 07:31	14°♓24'29	
min. Earth dist.	14330 Mar 30 06:16	23°♒36'18	0.65106 AU	desc. node	14331 Jan 22 07:09	29°♓45'21	
asc. node	14330 Mar 31 16:07	22°♒02'59			14331 Jan 22 10:25	0°♑	
inferior conj	14330 Apr 01 15:11	20°♒58'30	0°18'17		14331 Feb 11 13:54	0°♒	
minimum elong	14330 Apr 01 14:41	20°♒59'55	0°17'49	evening max el	14331 Feb 16 16:39	5°♒26'48	27°34'06
morning rise	14330 Apr 07 22:06	15°♒29'47		retrograde	14331 Mar 02 12:47	12°♒54'10	
direct	14330 Apr 10 14:53	14°♒51'14		evening set	14331 Mar 09 09:16	10°♒31'05	
morning max el	14330 Apr 16 22:45	18°♒08'14	17°57'21	min. Earth dist.	14331 Mar 13 03:42	7°♒20'18	0.63179 AU
	14330 Apr 25 20:06	0°♓		inferior conj	14331 Mar 15 23:24	4°♒31'38	-0°50'19
desc. node	14330 May 03 12:51	12°♓28'59		minimum elong	14331 Mar 16 01:02	4°♒27'31	0°49'37
morning set	14330 May 04 19:05	14°♓33'29		asc. node	14331 Mar 18 13:35	2°♒03'39	
	14330 May 14 06:27	0°♑			14331 Mar 21 08:30	30°☿♑	
				morning rise	14331 Mar 22 19:24	29°♑18'20	
superior conj	14330 May 19 00:32	7°♑34'56	-1°42'47	direct	14331 Mar 25 04:09	28°♑51'31	
minimum elong	14330 May 18 15:32	6°♑59'19	1°42'50		14331 Mar 28 22:26	0°♒	
max. Earth dist.	14330 May 22 17:02	13°♑23'32	1.45607 AU	morning max el	14331 Mar 31 16:30	2°♒11'00	17°46'20
	14330 Jun 02 09:54	0°☿		morning set	14331 Apr 16 23:19	26°♒57'33	
evening rise	14330 Jun 04 01:35	2°☿32'28			14331 Apr 18 17:37	0°♓	
				desc. node	14331 Apr 20 09:29	2°♓51'23	

superior conj	14331 Apr 29 08:28	17°♄54'52	-1°06'32	max. Earth dist.	14332 Apr 17 01:31	11°♄46'18	1.43012 AU
minimum elong	14331 Apr 29 01:55	17°♄27'57	1°06'21	evening rise	14332 Apr 23 08:50	21°♄53'29	
max. Earth dist.	14331 May 05 11:00	27°♄47'30	1.44614 AU		14332 Apr 28 14:32	0°♄	
	14331 May 06 20:22	0°♄			14332 May 19 19:38	0°♄	
evening rise	14331 May 14 12:33	11°♄57'31		evening max el	14332 May 25 13:24	6°♄31'10	21°57'47
	14331 May 26 12:46	0°♄		asc. node	14332 May 31 07:57	11°♄02'19	
evening max el	14331 Jun 12 18:00	22°♄39'56	20°43'19	retrograde	14332 Jun 03 21:54	11°♄59'54	
asc. node	14331 Jun 14 10:53	24°♄15'41		evening set	14332 Jun 08 13:25	10°♄04'32	
retrograde	14331 Jun 20 23:53	27°♄25'19		inferior conj	14332 Jun 13 19:39	3°♄46'34	3°04'25
evening set	14331 Jun 25 04:22	25°♄46'18		minimum elong	14332 Jun 13 18:38	3°♄50'07	3°03'16
inferior conj	14331 Jun 30 10:19	19°♄38'28	3°11'04	min. Earth dist.	14332 Jun 13 20:26	3°♄43'48	0.68963 AU
minimum elong	14331 Jun 30 10:14	19°♄38'48	3°10'02		14332 Jun 16 15:28	30°♄	
min. Earth dist.	14331 Jul 01 00:23	18°♄49'53	0.68522 AU	morning rise	14332 Jun 18 23:40	27°♄32'10	
morning rise	14331 Jul 05 15:48	13°♄17'53		direct	14332 Jun 23 19:45	25°♄28'31	
direct	14331 Jul 11 00:26	10°♄56'47			14332 Jul 02 06:06	0°♄	
desc. node	14331 Jul 17 09:22	13°♄29'28		desc. node	14332 Jul 03 06:35	0°♄59'08	
morning max el	14331 Jul 21 20:56	17°♄25'57	23°44'58	morning max el	14332 Jul 03 09:11	1°♄05'38	22°16'11
	14331 Aug 01 08:21	0°♄			14332 Jul 25 04:29	0°♄	
	14331 Aug 21 11:09	0°♄		morning set	14332 Aug 05 14:36	17°♄45'34	
morning set	14331 Aug 25 23:12	7°♄29'11		max. Earth dist.	14332 Aug 10 20:04	26°♄21'38	1.41209 AU
max. Earth dist.	14331 Aug 29 19:23	14°♄07'02	1.38869 AU		14332 Aug 12 23:44	0°♄	
superior conj	14331 Sep 06 08:48	27°♄52'07	-0°37'02	superior conj	14332 Aug 18 15:48	9°♄52'14	-1°12'36
minimum elong	14331 Sep 06 11:27	28°♄04'39	0°36'43	minimum elong	14332 Aug 18 21:23	10°♄17'07	1°12'14
	14331 Sep 07 11:52	0°♄		asc. node	14332 Aug 27 08:36	25°♄46'46	
asc. node	14331 Sep 10 12:03	5°♄46'05		evening rise	14332 Aug 29 00:09	28°♄51'23	
evening rise	14331 Sep 15 10:43	15°♄25'01			14332 Aug 29 14:51	0°♄	
	14331 Sep 23 05:11	0°♄		evening max el	14332 Sep 13 22:49	24°♄21'51	18°16'57
evening max el	14331 Oct 01 16:20	11°♄53'18	18°51'11	retrograde	14332 Sep 21 07:44	28°♄06'41	
retrograde	14331 Oct 10 05:24	16°♄11'09		evening set	14332 Sep 23 10:18	27°♄49'00	
evening set	14331 Oct 12 02:40	15°♄59'23		desc. node	14332 Sep 29 03:04	24°♄35'04	
desc. node	14331 Oct 13 05:34	15°♄41'49		inferior conj	14332 Sep 30 21:41	23°♄08'04	-0°33'42
inferior conj	14331 Oct 20 08:12	11°♄39'52	-2°15'36	minimum elong	14332 Sep 30 20:27	23°♄10'39	0°32'53
minimum elong	14331 Oct 20 02:32	11°♄49'58	2°12'45	min. Earth dist.	14332 Oct 04 04:33	20°♄24'01	0.58718 AU
min. Earth dist.	14331 Oct 23 08:21	9°♄31'22	0.56671 AU	morning rise	14332 Oct 08 03:11	17°♄40'54	
morning rise	14331 Oct 27 23:17	6°♄48'48		direct	14332 Oct 14 11:43	15°♄53'06	
direct	14331 Nov 02 18:46	5°♄27'51		morning max el	14332 Oct 28 19:03	23°♄33'43	27°27'26
morning max el	14331 Nov 16 23:19	12°♄47'45	26°19'27		14332 Nov 03 14:33	0°♄	
	14331 Nov 30 10:37	0°♄			14332 Nov 22 14:16	0°♄	
asc. node	14331 Dec 07 13:27	12°♄13'25		asc. node	14332 Nov 23 10:22	1°♄37'05	
morning set	14331 Dec 15 14:43	28°♄27'04		morning set	14332 Nov 28 22:33	12°♄51'03	
	14331 Dec 16 07:56	0°♄					
superior conj	14331 Dec 22 09:17	13°♄23'45	1°37'42	superior conj	14332 Dec 05 20:52	28°♄04'31	1°32'48
minimum elong	14331 Dec 22 08:56	13°♄21'47	1°38'44	minimum elong	14332 Dec 05 19:33	27°♄57'08	1°33'46
max. Earth dist.	14331 Dec 23 05:29	15°♄16'09	1.31427 AU	max. Earth dist.	14332 Dec 05 13:44	27°♄24'38	1.31132 AU
evening rise	14331 Dec 29 08:27	28°♄35'07			14332 Dec 06 17:31	0°♄	
	14331 Dec 30 00:40	0°♄		evening rise	14332 Dec 12 14:43	12°♄57'41	
desc. node	14332 Jan 09 03:53	19°♄25'09			14332 Dec 21 02:57	0°♄	
	14332 Jan 15 15:44	0°♄		desc. node	14332 Dec 26 00:43	8°♄34'02	
evening max el	14332 Jan 30 00:42	17°♄57'52	27°22'40	evening max el	14333 Jan 11 02:07	29°♄39'24	26°36'18
retrograde	14332 Feb 13 00:01	25°♄16'53			14333 Jan 11 10:54	0°♄	
evening set	14332 Feb 19 19:58	23°♄09'42		retrograde	14333 Jan 25 01:17	6°♄47'47	
min. Earth dist.	14332 Feb 23 15:06	20°♄20'48	0.61037 AU	evening set	14333 Jan 31 13:34	5°♄03'36	
inferior conj	14332 Feb 26 18:10	17°♄35'55	-2°09'53	min. Earth dist.	14333 Feb 04 15:51	2°♄26'16	0.58844 AU
minimum elong	14332 Feb 26 22:50	17°♄25'36	2°07'42	inferior conj	14333 Feb 07 19:48	0°♄01'22	-3°35'38
asc. node	14332 Mar 04 11:03	12°♄55'52		minimum elong	14333 Feb 08 03:38	29°♄46'23	3°32'20
morning rise	14332 Mar 05 04:50	12°♄40'49			14333 Feb 07 20:31	30°♄	
direct	14332 Mar 07 07:38	12°♄22'04		morning rise	14333 Feb 15 20:49	25°♄27'27	
morning max el	14332 Mar 14 08:44	15°♄54'34	17°53'26	direct	14333 Feb 17 21:09	25°♄13'08	
	14332 Mar 24 05:12	0°♄		asc. node	14333 Feb 19 08:31	25°♄21'07	
morning set	14332 Mar 29 23:28	10°♄17'07		morning max el	14333 Feb 25 19:50	29°♄08'51	18°20'04
desc. node	14332 Apr 06 06:01	23°♄21'29			14333 Feb 26 15:46	0°♄	
superior conj	14332 Apr 09 16:14	29°♄20'42	-0°27'08	morning set	14333 Mar 13 13:49	24°♄15'02	
minimum elong	14332 Apr 09 13:47	29°♄10'07	0°27'09		14333 Mar 16 14:25	0°♄	
	14332 Apr 10 01:21	0°♄		superior conj	14333 Mar 22 22:11	11°♄47'14	0°09'35
				minimum elong	14333 Mar 22 22:53	11°♄50'25	0°09'22

behind sun begin	14333 Mar 22 16:54	11° $\Upsilon$ 23'07		minimum elong	14334 Mar 06 00:18	25° $\Upsilon$ 13'38	0°40'26
behind sun end	14333 Mar 23 04:52	12° $\Upsilon$ 17'39			14334 Mar 08 12:37	0° $\Upsilon$	
desc. node	14333 Mar 24 02:29	13° $\Upsilon$ 55'38		desc. node	14334 Mar 10 23:00	4° $\Upsilon$ 30'31	
max. Earth dist.	14333 Mar 30 11:40	25° $\Upsilon$ 07'51	1.40970 AU	max. Earth dist.	14334 Mar 12 18:20	7° $\Upsilon$ 46'57	1.38711 AU
	14333 Apr 02 09:02	0° $\Upsilon$		evening rise	14334 Mar 16 12:41	14° $\Upsilon$ 24'34	
evening rise	14333 Apr 04 00:07	2° $\Upsilon$ 41'21			14334 Mar 26 00:28	0° $\Upsilon$	
	14333 Apr 21 21:58	0° $\Upsilon$			14334 Apr 16 18:39	0° $\Upsilon$	
evening max el	14333 May 08 04:50	20° $\Upsilon$ 23'02	23°18'13	evening max el	14334 Apr 20 18:28	4° $\Upsilon$ 16'24	24°38'23
asc. node	14333 May 18 05:08	26° $\Upsilon$ 33'37		retrograde	14334 May 02 09:50	11° $\Upsilon$ 04'39	
retrograde	14333 May 18 17:35	26° $\Upsilon$ 34'49		asc. node	14334 May 05 02:25	10° $\Upsilon$ 33'12	
evening set	14333 May 23 20:37	24° $\Upsilon$ 24'46		evening set	14334 May 08 00:25	8° $\Upsilon$ 42'49	
min. Earth dist.	14333 May 28 17:10	18° $\Upsilon$ 40'43	0.68923 AU	min. Earth dist.	14334 May 12 12:33	3° $\Upsilon$ 35'13	0.68415 AU
inferior conj	14333 May 29 05:17	17° $\Upsilon$ 58'56	2°47'21	inferior conj	14334 May 13 13:21	2° $\Upsilon$ 12'27	2°19'57
minimum elong	14333 May 29 03:32	18° $\Upsilon$ 04'55	2°46'01	minimum elong	14334 May 13 11:14	2° $\Upsilon$ 19'33	2°18'31
morning rise	14333 Jun 03 10:25	11° $\Upsilon$ 52'05			14334 May 15 05:57	30° $\Upsilon$	
direct	14333 Jun 07 17:54	10° $\Upsilon$ 08'31		morning rise	14334 May 18 22:15	26° $\Upsilon$ 14'11	
morning max el	14333 Jun 16 02:25	14° $\Upsilon$ 55'26	20°54'07	direct	14334 May 22 17:38	24° $\Upsilon$ 51'09	
desc. node	14333 Jun 20 03:42	19° $\Upsilon$ 25'30		morning max el	14334 May 30 02:48	28° $\Upsilon$ 56'59	19°44'11
	14333 Jun 28 03:25	0° $\Upsilon$			14334 May 31 03:27	0° $\Upsilon$	
morning set	14333 Jul 16 06:18	27° $\Upsilon$ 00'56		desc. node	14334 Jun 07 00:41	8° $\Upsilon$ 33'36	
	14333 Jul 18 04:06	0° $\Upsilon$		greatest brilliancy	14334 Jun 11 23:41	15° $\Upsilon$ 36'23	-0.6m
max. Earth dist.	14333 Jul 24 03:04	9° $\Upsilon$ 29'47	1.43269 AU		14334 Jun 21 14:26	0° $\Upsilon$	
				morning set	14334 Jun 25 08:49	5° $\Upsilon$ 45'33	
superior conj	14333 Jul 31 01:05	20° $\Upsilon$ 55'01	-1°44'57	max. Earth dist.	14334 Jul 06 16:10	23° $\Upsilon$ 21'42	1.44821 AU
minimum elong	14333 Jul 31 08:30	21° $\Upsilon$ 26'18	1°44'56		14334 Jul 10 20:10	0° $\Upsilon$	
	14333 Aug 05 08:32	0° $\Upsilon$					
evening rise	14333 Aug 11 23:22	11° $\Upsilon$ 38'51		superior conj	14334 Jul 11 10:40	0° $\Upsilon$ 58'14	-2°07'33
asc. node	14333 Aug 14 05:10	15° $\Upsilon$ 37'33		minimum elong	14334 Jul 11 16:02	1° $\Upsilon$ 19'49	2°08'16
	14333 Aug 22 17:36	0° $\Upsilon$		evening rise	14334 Jul 25 03:15	23° $\Upsilon$ 34'58	
evening max el	14333 Aug 28 11:11	7° $\Upsilon$ 22'45	18°02'48		14334 Jul 28 22:33	0° $\Upsilon$	
retrograde	14333 Sep 04 03:01	10° $\Upsilon$ 48'37		asc. node	14334 Aug 01 01:49	5° $\Upsilon$ 13'57	
evening set	14333 Sep 06 13:08	10° $\Upsilon$ 21'15		evening max el	14334 Aug 12 01:43	20° $\Upsilon$ 46'52	18°07'32
inferior conj	14333 Sep 13 07:18	5° $\Upsilon$ 20'13	0°49'27	retrograde	14334 Aug 18 10:35	24° $\Upsilon$ 07'27	
minimum elong	14333 Sep 13 08:46	5° $\Upsilon$ 16'42	0°48'54	evening set	14334 Aug 21 05:06	23° $\Upsilon$ 27'14	
desc. node	14333 Sep 16 00:36	2° $\Upsilon$ 42'27		inferior conj	14334 Aug 27 09:12	18° $\Upsilon$ 08'38	1°51'01
min. Earth dist.	14333 Sep 16 09:58	2° $\Upsilon$ 20'40	0.60994 AU	minimum elong	14334 Aug 27 11:36	18° $\Upsilon$ 02'03	1°49'58
	14333 Sep 19 05:10	30° $\Upsilon$		min. Earth dist.	14334 Aug 30 01:17	15° $\Upsilon$ 14'20	0.63231 AU
morning rise	14333 Sep 20 01:30	29° $\Upsilon$ 24'30		morning rise	14334 Sep 02 16:05	11° $\Upsilon$ 54'44	
direct	14333 Sep 26 16:38	27° $\Upsilon$ 12'11		desc. node	14334 Sep 02 22:08	11° $\Upsilon$ 43'32	
	14333 Oct 04 17:59	0° $\Upsilon$		direct	14334 Sep 09 07:48	9° $\Upsilon$ 24'32	
morning max el	14333 Oct 10 22:25	5° $\Upsilon$ 07'34	27°57'30	morning max el	14334 Sep 23 06:59	17° $\Upsilon$ 25'48	27°48'56
	14333 Oct 29 13:14	0° $\Upsilon$			14334 Oct 03 18:58	0° $\Upsilon$	
asc. node	14333 Nov 10 07:09	21° $\Upsilon$ 19'34			14334 Oct 22 08:51	0° $\Upsilon$	
morning set	14333 Nov 13 01:32	26° $\Upsilon$ 58'02		morning set	14334 Oct 27 21:27	10° $\Upsilon$ 42'39	
	14333 Nov 14 12:12	0° $\Upsilon$		asc. node	14334 Oct 28 03:53	11° $\Upsilon$ 15'06	
max. Earth dist.	14333 Nov 18 20:35	9° $\Upsilon$ 25'30	1.31364 AU	max. Earth dist.	14334 Nov 01 22:05	21° $\Upsilon$ 09'29	1.32141 AU
superior conj	14333 Nov 20 07:32	12° $\Upsilon$ 38'54	1°22'04	superior conj	14334 Nov 04 15:20	27° $\Upsilon$ 01'50	1°05'32
minimum elong	14333 Nov 20 05:30	12° $\Upsilon$ 27'41	1°22'49	minimum elong	14334 Nov 04 13:02	26° $\Upsilon$ 49'18	1°06'00
evening rise	14333 Nov 27 00:17	27° $\Upsilon$ 26'41			14334 Nov 05 23:56	0° $\Upsilon$	
	14333 Nov 28 04:52	0° $\Upsilon$		evening rise	14334 Nov 11 11:17	11° $\Upsilon$ 57'28	
desc. node	14333 Dec 12 21:42	27° $\Upsilon$ 00'10			14334 Nov 20 11:36	0° $\Upsilon$	
	14333 Dec 14 23:05	0° $\Upsilon$		desc. node	14334 Nov 29 18:48	14° $\Upsilon$ 27'22	
evening max el	14333 Dec 23 18:58	10° $\Upsilon$ 27'46	25°18'07	evening max el	14334 Dec 05 05:21	20° $\Upsilon$ 36'07	23°39'29
retrograde	14334 Jan 06 15:14	17° $\Upsilon$ 25'10		retrograde	14334 Dec 18 16:21	27° $\Upsilon$ 17'26	
evening set	14334 Jan 12 10:08	16° $\Upsilon$ 09'14		evening set	14334 Dec 23 07:14	26° $\Upsilon$ 31'02	
min. Earth dist.	14334 Jan 17 07:09	13° $\Upsilon$ 28'12	0.56830 AU	min. Earth dist.	14334 Dec 29 16:10	23° $\Upsilon$ 27'17	0.55295 AU
inferior conj	14334 Jan 20 01:13	11° $\Upsilon$ 38'52	-4°55'59	inferior conj	14334 Dec 31 10:07	22° $\Upsilon$ 25'24	-5°49'56
minimum elong	14334 Jan 20 10:08	11° $\Upsilon$ 24'04	4°52'57	minimum elong	14334 Dec 31 14:47	22° $\Upsilon$ 18'30	5°48'28
morning rise	14334 Jan 28 12:42	7° $\Upsilon$ 27'07		morning rise	14335 Jan 09 00:02	18° $\Upsilon$ 31'30	
direct	14334 Jan 30 16:19	7° $\Upsilon$ 13'35		direct	14335 Jan 11 15:49	18° $\Upsilon$ 14'04	
asc. node	14334 Feb 06 05:55	9° $\Upsilon$ 29'22		morning max el	14335 Jan 22 10:39	23° $\Upsilon$ 24'47	20°19'18
morning max el	14334 Feb 08 21:47	11° $\Upsilon$ 42'43	19°08'11	asc. node	14335 Jan 24 03:17	25° $\Upsilon$ 09'53	
	14334 Feb 21 03:13	0° $\Upsilon$			14335 Jan 27 23:04	0° $\Upsilon$	
morning set	14334 Feb 25 13:55	8° $\Upsilon$ 38'04		morning set	14335 Feb 09 20:20	23° $\Upsilon$ 15'18	
					14335 Feb 13 02:53	0° $\Upsilon$	
superior conj	14334 Mar 05 21:59	25° $\Upsilon$ 02'32	0°40'36				

superior conj	14335 Feb 17 11:04	8° $\text{H}$ 52'41	1°04'56	morning set	14336 Jan 25 06:29	7° $\approx$ 59'34	
minimum elong	14335 Feb 17 13:44	9° $\text{H}$ 06'11	1°05'02				
max. Earth dist.	14335 Feb 23 01:17	19° $\text{H}$ 51'31	1.36489 AU	superior conj	14336 Feb 01 09:40	23° $\approx$ 07'21	1°22'24
desc. node	14335 Feb 25 19:31	25° $\text{H}$ 01'45		minimum elong	14336 Feb 01 11:54	23° $\approx$ 19'03	1°22'53
evening rise	14335 Feb 26 20:24	26° $\text{H}$ 55'36			14336 Feb 04 17:22	0° $\text{H}$	
	14335 Feb 28 13:22	0° $\text{Y}$		max. Earth dist.	14336 Feb 05 13:36	1° $\text{H}$ 42'32	1.34524 AU
	14335 Mar 19 10:41	0° $\text{B}$		evening rise	14336 Feb 09 19:49	10° $\text{H}$ 05'14	
evening max el	14335 Apr 03 07:57	18° $\text{B}$ 08'25	25°51'23	desc. node	14336 Feb 12 16:05	15° $\text{H}$ 25'30	
retrograde	14335 Apr 15 21:33	25° $\text{B}$ 21'52			14336 Feb 21 01:42	0° $\text{Y}$	
evening set	14335 Apr 21 23:08	22° $\text{B}$ 52'19			14336 Mar 14 01:07	0° $\text{B}$	
asc. node	14335 Apr 21 23:47	22° $\text{B}$ 50'57		evening max el	14336 Mar 15 21:49	1° $\text{B}$ 52'43	26°49'42
min. Earth dist.	14335 Apr 26 04:29	18° $\text{B}$ 20'14	0.67455 AU	retrograde	14336 Mar 29 03:37	9° $\text{B}$ 18'43	
inferior conj	14335 Apr 27 17:53	16° $\text{B}$ 22'09	1°41'49	evening set	14336 Apr 04 14:52	6° $\text{B}$ 46'40	
minimum elong	14335 Apr 27 15:51	16° $\text{B}$ 28'38	1°40'29	asc. node	14336 Apr 07 21:13	3° $\text{B}$ 38'05	
morning rise	14335 May 03 09:12	10° $\text{B}$ 33'44		min. Earth dist.	14336 Apr 08 14:48	2° $\text{B}$ 48'39	0.66075 AU
direct	14335 May 06 17:24	9° $\text{B}$ 29'56		inferior conj	14336 Apr 10 16:39	0° $\text{B}$ 22'50	0°52'17
morning max el	14335 May 13 10:29	13° $\text{B}$ 06'57	18°49'29	minimum elong	14336 Apr 10 15:20	0° $\text{B}$ 26'41	0°51'22
desc. node	14335 May 24 21:34	28° $\text{B}$ 11'49			14336 Apr 11 00:27	30° $\text{R}$ $\text{Y}$	
	14335 May 26 02:17	0° $\text{II}$		morning rise	14336 Apr 16 17:04	24° $\text{Y}$ 46'03	
greatest brilliancy	14335 May 27 06:03	1° $\text{II}$ 45'29	-0.8m	direct	14336 Apr 19 15:11	23° $\text{Y}$ 59'04	
morning set	14335 Jun 04 18:39	14° $\text{II}$ 55'51		morning max el	14336 Apr 26 00:03	27° $\text{Y}$ 19'50	18°11'24
	14335 Jun 14 11:03	0° $\text{E}$			14336 Apr 28 10:36	0° $\text{B}$	
max. Earth dist.	14335 Jun 19 09:41	7° $\text{E}$ 42'41	1.45713 AU	desc. node	14336 May 10 18:21	18° $\text{B}$ 11'56	
				morning set	14336 May 15 04:43	25° $\text{B}$ 18'44	
superior conj	14335 Jun 21 00:57	10° $\text{E}$ 16'15	-2°13'19		14336 May 18 02:52	0° $\text{II}$	
minimum elong	14335 Jun 20 23:20	10° $\text{E}$ 09'55	2°14'21				
	14335 Jul 03 12:04	0° $\text{O}$		superior conj	14336 May 30 09:25	19° $\text{II}$ 25'29	-1°58'56
evening rise	14335 Jul 06 07:14	4° $\text{O}$ 29'36		minimum elong	14336 May 30 01:23	18° $\text{II}$ 54'01	1°59'23
asc. node	14335 Jul 18 22:33	24° $\text{O}$ 30'09		max. Earth dist.	14336 Jun 01 05:49	22° $\text{II}$ 19'02	1.45868 AU
	14335 Jul 22 19:54	0° $\text{M}$			14336 Jun 06 04:09	0° $\text{E}$	
evening max el	14335 Jul 26 15:09	4° $\text{M}$ 26'00	18°30'14	evening rise	14336 Jun 15 11:16	14° $\text{E}$ 26'24	
retrograde	14335 Aug 02 02:18	7° $\text{M}$ 54'36			14336 Jun 25 13:14	0° $\text{O}$	
evening set	14335 Aug 05 05:39	6° $\text{M}$ 59'08		greatest brilliancy	14336 Jun 26 22:05	2° $\text{O}$ 04'25	-0.7m
inferior conj	14335 Aug 10 23:19	1° $\text{M}$ 24'54	2°32'58	asc. node	14336 Jul 04 19:21	13° $\text{O}$ 18'41	
minimum elong	14335 Aug 11 01:33	1° $\text{M}$ 18'11	2°31'53	evening max el	14336 Jul 09 00:54	18° $\text{O}$ 13'06	19°09'56
	14335 Aug 12 03:25	30° $\text{R}$ $\text{O}$		retrograde	14336 Jul 15 22:45	22° $\text{O}$ 02'34	
min. Earth dist.	14335 Aug 13 01:48	28° $\text{O}$ 53'23	0.65230 AU	evening set	14336 Jul 19 11:27	20° $\text{O}$ 50'19	
morning rise	14335 Aug 16 20:15	25° $\text{O}$ 02'09		inferior conj	14336 Jul 24 22:11	15° $\text{O}$ 01'55	2°58'22
desc. node	14335 Aug 20 19:39	22° $\text{O}$ 45'59		minimum elong	14336 Jul 24 23:39	14° $\text{O}$ 57'10	2°57'21
direct	14335 Aug 23 07:24	22° $\text{O}$ 23'19		min. Earth dist.	14336 Jul 26 10:12	13° $\text{O}$ 05'31	0.66864 AU
	14335 Sep 05 10:50	0° $\text{M}$		morning rise	14336 Jul 30 11:12	8° $\text{O}$ 36'54	
morning max el	14335 Sep 05 17:51	0° $\text{M}$ 17'35	27°06'54	direct	14336 Aug 05 13:47	5° $\text{O}$ 59'04	
	14335 Sep 27 18:51	0° $\text{A}$		desc. node	14336 Aug 06 17:08	6° $\text{O}$ 03'57	
morning set	14335 Oct 11 07:31	23° $\text{A}$ 58'18		morning max el	14336 Aug 18 04:52	13° $\text{O}$ 31'10	25°59'28
	14335 Oct 14 08:53	0° $\text{M}$			14336 Aug 31 13:45	0° $\text{M}$	
asc. node	14335 Oct 15 00:32	1° $\text{M}$ 18'53			14336 Sep 19 12:33	0° $\text{A}$	
max. Earth dist.	14335 Oct 15 14:51	2° $\text{M}$ 31'33	1.33465 AU	morning set	14336 Sep 23 04:13	6° $\text{A}$ 35'41	
				max. Earth dist.	14336 Sep 26 21:45	13° $\text{A}$ 37'26	1.35299 AU
superior conj	14335 Oct 19 18:07	11° $\text{M}$ 07'35	0°43'15	asc. node	14336 Sep 30 21:07	21° $\text{A}$ 26'02	
minimum elong	14335 Oct 19 16:08	10° $\text{M}$ 57'04	0°43'30				
evening rise	14335 Oct 26 21:52	26° $\text{M}$ 25'28		superior conj	14336 Oct 02 13:10	24° $\text{A}$ 48'21	0°15'30
	14335 Oct 28 14:38	0° $\text{A}$		minimum elong	14336 Oct 02 12:17	24° $\text{A}$ 43'50	0°15'39
	14335 Nov 16 02:12	0° $\text{B}$		behind sun begin	14336 Oct 02 10:50	24° $\text{A}$ 36'30	
evening max el	14335 Nov 16 17:11	0° $\text{B}$ 37'32	21°57'55	behind sun end	14336 Oct 02 13:43	24° $\text{A}$ 51'10	
desc. node	14335 Nov 16 16:00	0° $\text{B}$ 34'39			14336 Oct 05 01:54	0° $\text{M}$	
retrograde	14335 Nov 29 05:51	6° $\text{B}$ 49'45		evening rise	14336 Oct 10 05:56	10° $\text{M}$ 44'29	
evening set	14335 Dec 02 12:00	6° $\text{B}$ 26'08			14336 Oct 20 08:04	0° $\text{A}$	
inferior conj	14335 Dec 11 04:23	2° $\text{B}$ 33'02	-5°52'55	evening max el	14336 Oct 28 15:23	11° $\text{A}$ 06'18	20°28'54
minimum elong	14335 Dec 11 00:07	2° $\text{B}$ 39'01	5°51'31	desc. node	14336 Nov 02 13:19	14° $\text{A}$ 55'11	
min. Earth dist.	14335 Dec 10 22:20	2° $\text{B}$ 41'30	0.54524 AU	retrograde	14336 Nov 08 16:29	16° $\text{A}$ 35'58	
	14335 Dec 16 01:45	30° $\text{R}$ $\text{A}$		evening set	14336 Nov 10 22:25	16° $\text{A}$ 23'22	
morning rise	14335 Dec 19 13:07	28° $\text{A}$ 45'37		inferior conj	14336 Nov 19 20:31	12° $\text{A}$ 28'22	-4°55'59
direct	14335 Dec 23 02:08	28° $\text{A}$ 17'55		minimum elong	14336 Nov 19 10:36	12° $\text{A}$ 42'47	4°52'33
	14335 Dec 29 16:04	0° $\text{B}$		min. Earth dist.	14336 Nov 21 04:34	11° $\text{A}$ 41'44	0.54672 AU
morning max el	14336 Jan 04 08:50	4° $\text{B}$ 12'01	21°52'19	morning rise	14336 Nov 27 22:27	8° $\text{A}$ 29'10	
asc. node	14336 Jan 11 00:34	12° $\text{B}$ 05'43		direct	14336 Dec 02 11:00	7° $\text{A}$ 45'13	
	14336 Jan 21 09:10	0° $\approx$		morning max el	14336 Dec 15 20:14	14° $\text{A}$ 17'37	23°40'00

asc. node	14336 Dec 27 21:44	29° $\text{♁}$ 59'12		morning rise	14337 Nov 07 20:17	18° $\text{♁}$ 16'07	
	14336 Dec 27 21:56	0° $\text{♁}$		direct	14337 Nov 13 05:27	17° $\text{♁}$ 10'23	
morning set	14337 Jan 08 18:17	22° $\text{♁}$ 44'34		morning max el	14337 Nov 27 05:57	24° $\text{♁}$ 14'48	25°26'30
	14337 Jan 12 02:46	0° $\text{♁}$			14337 Dec 02 12:22	0° $\text{♁}$	
				asc. node	14337 Dec 14 18:48	18° $\text{♁}$ 36'01	
superior conj	14337 Jan 15 14:48	7° $\text{♁}$ 37'43	1°33'16		14337 Dec 20 17:06	0° $\text{♁}$	
minimum elong	14337 Jan 15 16:08	7° $\text{♁}$ 44'57	1°34'04	morning set	14337 Dec 24 05:55	7° $\text{♁}$ 25'08	
max. Earth dist.	14337 Jan 18 09:43	13° $\text{♁}$ 36'47	1.32946 AU				
evening rise	14337 Jan 23 07:27	23° $\text{♁}$ 44'08		superior conj	14337 Dec 31 00:02	22° $\text{♁}$ 16'50	1°37'49
	14337 Jan 26 12:24	0° $\text{♁}$		minimum elong	14337 Dec 31 00:18	22° $\text{♁}$ 18'18	1°38'50
desc. node	14337 Jan 29 12:43	5° $\text{♁}$ 36'59		max. Earth dist.	14338 Jan 01 12:42	25° $\text{♁}$ 39'03	1.31833 AU
	14337 Feb 13 16:26	0° $\text{♁}$			14338 Jan 03 12:34	0° $\text{♁}$	
evening max el	14337 Feb 26 11:03	15° $\text{♁}$ 18'25	27°25'56	evening rise	14338 Jan 07 04:15	7° $\text{♁}$ 44'41	
retrograde	14337 Mar 12 03:05	22° $\text{♁}$ 46'49		desc. node	14338 Jan 16 09:23	25° $\text{♁}$ 30'19	
evening set	14337 Mar 18 21:28	20° $\text{♁}$ 18'22			14338 Jan 18 23:30	0° $\text{♁}$	
min. Earth dist.	14337 Mar 22 17:22	16° $\text{♁}$ 51'47	0.64326 AU	evening max el	14338 Feb 08 21:29	28° $\text{♁}$ 12'11	27°33'22
inferior conj	14337 Mar 25 07:02	14° $\text{♁}$ 08'05	-0°09'19		14338 Feb 10 21:08	0° $\text{♁}$	
minimum elong	14337 Mar 25 07:19	14° $\text{♁}$ 07'20	0°09'21	retrograde	14338 Feb 22 19:05	5° $\text{♁}$ 36'22	
transit middle	14337 Mar 25 07:19	14° $\text{♁}$ 07'20	0°09'21	evening set	14338 Mar 01 16:20	3° $\text{♁}$ 18'50	
transit begin	14337 Mar 25 04:48	14° $\text{♁}$ 14'02		min. Earth dist.	14338 Mar 05 10:26	0° $\text{♁}$ 18'43	0.62288 AU
transit end	14337 Mar 25 09:50	14° $\text{♁}$ 00'39			14338 Mar 05 18:35	30° $\text{♁}$	
asc. node	14337 Mar 25 18:40	13° $\text{♁}$ 37'13		inferior conj	14338 Mar 08 09:57	27° $\text{♁}$ 29'40	-1°22'52
morning rise	14337 Mar 31 19:13	8° $\text{♁}$ 45'24		minimum elong	14338 Mar 08 12:47	27° $\text{♁}$ 22'55	1°21'34
direct	14337 Apr 03 08:30	8° $\text{♁}$ 12'08		asc. node	14338 Mar 12 16:09	23° $\text{♁}$ 52'25	
morning max el	14337 Apr 09 17:07	11° $\text{♁}$ 28'36	17°50'29	morning rise	14338 Mar 15 12:05	22° $\text{♁}$ 23'59	
	14337 Apr 22 13:52	0° $\text{♁}$		direct	14338 Mar 17 18:05	22° $\text{♁}$ 00'59	
morning set	14337 Apr 26 18:45	7° $\text{♁}$ 02'40		morning max el	14338 Mar 24 10:41	25° $\text{♁}$ 24'20	17°47'08
desc. node	14337 Apr 27 15:01	8° $\text{♁}$ 27'41			14338 Mar 28 07:25	0° $\text{♁}$	
				morning set	14338 Apr 09 08:12	19° $\text{♁}$ 52'23	
superior conj	14337 May 10 05:19	29° $\text{♁}$ 10'55	-1°28'16	desc. node	14338 Apr 14 11:35	28° $\text{♁}$ 53'40	
minimum elong	14337 May 09 20:54	28° $\text{♁}$ 37'06	1°28'10		14338 Apr 15 02:52	0° $\text{♁}$	
	14337 May 10 17:34	0° $\text{♁}$					
max. Earth dist.	14337 May 15 01:55	6° $\text{♁}$ 54'34	1.45272 AU	superior conj	14338 Apr 20 23:19	9° $\text{♁}$ 58'52	-0°49'47
evening rise	14337 May 26 00:08	23° $\text{♁}$ 51'59		minimum elong	14338 Apr 20 18:31	9° $\text{♁}$ 38'45	0°49'40
	14337 May 30 00:46	0° $\text{♁}$		max. Earth dist.	14338 Apr 27 18:50	21° $\text{♁}$ 10'17	1.43996 AU
greatest brilliancy	14337 Jun 09 21:28	16° $\text{♁}$ 10'15	-0.6m		14338 May 03 08:25	0° $\text{♁}$	
	14337 Jun 20 07:03	0° $\text{♁}$		evening rise	14338 May 05 13:21	3° $\text{♁}$ 25'48	
asc. node	14337 Jun 21 16:16	1° $\text{♁}$ 30'26			14338 May 23 11:32	0° $\text{♁}$	
evening max el	14337 Jun 22 05:14	2° $\text{♁}$ 03'30	20°05'15	evening max el	14338 Jun 05 03:31	15° $\text{♁}$ 53'37	21°13'50
retrograde	14337 Jun 29 21:29	6° $\text{♁}$ 25'45		asc. node	14338 Jun 08 13:18	18° $\text{♁}$ 52'11	
evening set	14337 Jul 03 20:04	4° $\text{♁}$ 56'15		retrograde	14338 Jun 13 20:21	20° $\text{♁}$ 57'27	
	14337 Jul 08 07:41	30° $\text{♁}$		evening set	14338 Jun 18 05:28	19° $\text{♁}$ 11'09	
inferior conj	14337 Jul 09 02:57	28° $\text{♁}$ 54'55	3°09'54	inferior conj	14338 Jun 23 11:14	12° $\text{♁}$ 58'31	3°09'33
minimum elong	14337 Jul 09 03:26	28° $\text{♁}$ 53'17	3°08'55	minimum elong	14338 Jun 23 10:44	13° $\text{♁}$ 00'16	3°08'29
min. Earth dist.	14337 Jul 10 00:47	27° $\text{♁}$ 40'51	0.68054 AU	min. Earth dist.	14338 Jun 23 19:30	12° $\text{♁}$ 29'41	0.68768 AU
morning rise	14337 Jul 14 10:29	22° $\text{♁}$ 31'58		morning rise	14338 Jun 28 15:46	6° $\text{♁}$ 40'18	
direct	14337 Jul 20 02:01	20° $\text{♁}$ 03'11		direct	14338 Jul 03 18:59	4° $\text{♁}$ 26'27	
desc. node	14337 Jul 24 14:29	21° $\text{♁}$ 20'18		desc. node	14338 Jul 11 11:46	8° $\text{♁}$ 07'55	
morning max el	14337 Jul 31 15:28	26° $\text{♁}$ 58'38	24°36'14	morning max el	14338 Jul 14 02:31	10° $\text{♁}$ 34'06	23°06'48
	14337 Aug 03 11:06	0° $\text{♁}$			14338 Jul 29 12:18	0° $\text{♁}$	
	14337 Aug 25 04:18	0° $\text{♁}$		morning set	14338 Aug 17 13:02	29° $\text{♁}$ 19'13	
morning set	14337 Sep 05 07:32	18° $\text{♁}$ 26'11			14338 Aug 17 22:51	0° $\text{♁}$	
max. Earth dist.	14337 Sep 08 21:37	24° $\text{♁}$ 49'32	1.37515 AU	max. Earth dist.	14338 Aug 21 20:02	6° $\text{♁}$ 34'10	1.39882 AU
	14337 Sep 11 17:07	0° $\text{♁}$					
				superior conj	14338 Aug 29 14:47	20° $\text{♁}$ 24'30	-0°52'13
superior conj	14337 Sep 15 21:22	7° $\text{♁}$ 57'05	-0°16'55	minimum elong	14338 Aug 29 18:42	20° $\text{♁}$ 42'30	0°51'50
minimum elong	14337 Sep 15 22:29	8° $\text{♁}$ 02'32	0°16'40		14338 Sep 03 17:46	0° $\text{♁}$	
asc. node	14337 Sep 17 17:40	11° $\text{♁}$ 33'28		asc. node	14338 Sep 04 14:14	1° $\text{♁}$ 37'28	
evening rise	14337 Sep 24 09:13	24° $\text{♁}$ 49'17		evening rise	14338 Sep 08 04:45	8° $\text{♁}$ 32'06	
	14337 Sep 26 23:52	0° $\text{♁}$			14338 Sep 20 12:01	0° $\text{♁}$	
evening max el	14337 Oct 11 03:52	22° $\text{♁}$ 22'15	19°20'24	evening max el	14338 Sep 24 04:53	4° $\text{♁}$ 26'25	18°34'01
desc. node	14337 Oct 20 10:41	27° $\text{♁}$ 05'02		retrograde	14338 Oct 02 04:56	8° $\text{♁}$ 28'58	
retrograde	14337 Oct 20 13:37	27° $\text{♁}$ 05'05		evening set	14338 Oct 04 03:45	8° $\text{♁}$ 15'18	
evening set	14337 Oct 22 10:30	26° $\text{♁}$ 54'42		desc. node	14338 Oct 07 08:06	7° $\text{♁}$ 00'14	
inferior conj	14337 Oct 31 00:50	22° $\text{♁}$ 45'50	-3°18'01	inferior conj	14338 Oct 12 01:43	3° $\text{♁}$ 46'45	-1°30'35
minimum elong	14337 Oct 30 16:32	22° $\text{♁}$ 59'26	3°14'15	minimum elong	14338 Oct 11 22:06	3° $\text{♁}$ 53'42	1°28'38
min. Earth dist.	14337 Nov 02 14:17	21° $\text{♁}$ 05'10	0.55724 AU	min. Earth dist.	14338 Oct 15 06:22	1° $\text{♁}$ 20'42	0.57489 AU











































































































































	14338 Oct 17 04:54	30° $\text{R}\text{U}$		minimum elong	14339 Sep 24 00:20	15° $\text{U}\text{33}'50$	0°04'20
morning rise	14338 Oct 19 12:57	28° $\text{U}\text{39}'21$		transit middle	14339 Sep 24 00:20	15° $\text{U}\text{33}'50$	0°04'20
direct	14338 Oct 25 14:32	27° $\text{U}\text{07}'00$		transit begin	14339 Sep 23 21:05	15° $\text{U}\text{41}'06$	
	14338 Nov 03 04:26	0° $\text{M}$		transit end	14339 Sep 24 03:35	15° $\text{U}\text{26}'34$	
morning max el	14338 Nov 08 21:20	4° $\text{M}\text{37}'15$	26°52'45	desc. node	14339 Sep 24 05:37	15° $\text{U}\text{22}'02$	
	14338 Nov 27 09:40	0° $\text{J}$		min. Earth dist.	14339 Sep 27 06:31	12° $\text{U}\text{40}'33$	0.59675 AU
asc. node	14338 Dec 01 15:46	7° $\text{J}\text{45}'11$		morning rise	14339 Oct 01 00:58	9° $\text{U}\text{53}'36$	
morning set	14338 Dec 08 15:40	21° $\text{J}\text{56}'40$		direct	14339 Oct 07 13:14	7° $\text{U}\text{54}'22$	
	14338 Dec 12 08:12	0° $\text{Z}$		morning max el	14339 Oct 21 20:24	15° $\text{U}\text{42}'50$	27°45'02
					14339 Nov 02 12:38	0° $\text{M}$	
superior conj	14338 Dec 15 11:20	6° $\text{Z}\text{58}'52$	1°36'20	asc. node	14339 Nov 18 12:38	27° $\text{M}\text{17}'24$	
minimum elong	14338 Dec 15 10:33	6° $\text{Z}\text{54}'29$	1°37'22		14339 Nov 19 21:14	0° $\text{J}$	
max. Earth dist.	14338 Dec 15 19:54	7° $\text{Z}\text{46}'44$	1.31228 AU	morning set	14339 Nov 22 21:39	6° $\text{J}\text{13}'39$	
evening rise	14338 Dec 22 07:42	22° $\text{Z}\text{00}'51$		max. Earth dist.	14339 Nov 29 03:49	19° $\text{J}\text{51}'52$	1.31158 AU
	14338 Dec 26 04:32	0° $\approx$					
desc. node	14339 Jan 03 06:10	14° $\approx\text{58}'13$		superior conj	14339 Nov 29 22:45	21° $\text{J}\text{37}'28$	1°28'58
	14339 Jan 13 02:41	0° $\text{X}$		minimum elong	14339 Nov 29 21:05	21° $\text{J}\text{28}'12$	1°29'51
evening max el	14339 Jan 22 02:50	10° $\text{X}\text{22}'38$	27°07'13		14339 Dec 03 16:55	0° $\text{Z}$	
retrograde	14339 Feb 05 02:39	17° $\text{X}\text{38}'15$		evening rise	14339 Dec 06 15:36	6° $\text{Z}\text{26}'26$	
evening set	14339 Feb 11 20:19	15° $\text{X}\text{39}'44$			14339 Dec 18 19:06	0° $\approx$	
min. Earth dist.	14339 Feb 15 17:13	12° $\text{X}\text{57}'28$	0.60091 AU	desc. node	14339 Dec 21 03:04	3° $\approx\text{50}'13$	
inferior conj	14339 Feb 18 21:53	10° $\text{X}\text{18}'40$	-2°45'59	evening max el	14340 Jan 04 00:43	21° $\approx\text{41}'04$	26°06'35
minimum elong	14339 Feb 19 03:58	10° $\text{X}\text{06}'01$	2°43'14	retrograde	14340 Jan 17 23:34	28° $\approx\text{45}'17$	
morning rise	14339 Feb 26 14:55	5° $\text{X}\text{32}'41$		evening set	14340 Jan 24 05:26	27° $\approx\text{12}'54$	
asc. node	14339 Feb 27 13:35	5° $\text{X}\text{21}'08$		min. Earth dist.	14340 Jan 28 14:01	24° $\approx\text{35}'48$	0.57941 AU
direct	14339 Feb 28 16:02	5° $\text{X}\text{16}'21$		inferior conj	14340 Jan 31 15:11	22° $\approx\text{24}'20$	-4°11'28
morning max el	14339 Mar 08 01:19	8° $\text{X}\text{57}'30$	18°02'20	minimum elong	14340 Jan 31 23:55	22° $\approx\text{08}'35$	4°08'03
	14339 Mar 21 17:31	0° $\text{Y}$		morning rise	14340 Feb 08 21:23	17° $\approx\text{59}'45$	
morning set	14339 Mar 23 15:04	3° $\text{Y}\text{30}'12$		direct	14340 Feb 10 22:00	17° $\approx\text{46}'21$	
desc. node	14339 Apr 01 08:08	19° $\text{Y}\text{26}'07$		asc. node	14340 Feb 14 11:02	18° $\approx\text{29}'39$	
				morning max el	14340 Feb 19 09:02	21° $\approx\text{55}'38$	18°37'48
					14340 Feb 25 15:20	0° $\text{X}$	
superior conj	14339 Apr 02 17:05	21° $\text{Y}\text{52}'25$	-0°11'03	morning set	14340 Mar 06 10:03	17° $\text{X}\text{39}'46$	
minimum elong	14339 Apr 02 16:09	21° $\text{Y}\text{48}'17$	0°11'10		14340 Mar 12 19:36	0° $\text{Y}$	
behind sun begin	14339 Apr 02 10:29	21° $\text{Y}\text{23}'11$					
behind sun end	14339 Apr 02 21:50	22° $\text{Y}\text{13}'20$		superior conj	14340 Mar 15 07:10	4° $\text{Y}\text{40}'40$	0°23'31
	14339 Apr 07 09:31	0° $\text{B}$		minimum elong	14340 Mar 15 08:44	4° $\text{Y}\text{47}'56$	0°23'16
max. Earth dist.	14339 Apr 10 07:06	4° $\text{B}\text{52}'49$	1.42182 AU	desc. node	14340 Mar 18 04:40	10° $\text{Y}\text{00}'44$	
evening rise	14339 Apr 15 17:03	13° $\text{B}\text{42}'31$		max. Earth dist.	14340 Mar 22 15:07	17° $\text{Y}\text{54}'26$	1.40021 AU
	14339 Apr 26 06:42	0° $\text{II}$		evening rise	14340 Mar 26 17:29	24° $\text{Y}\text{54}'22$	
evening max el	14339 May 18 20:54	29° $\text{II}\text{44}'27$	22°31'32		14340 Mar 29 19:34	0° $\text{B}$	
	14339 May 19 03:10	0° $\text{G}$			14340 Apr 19 00:47	0° $\text{II}$	
asc. node	14339 May 26 10:24	5° $\text{G}\text{08}'41$		evening max el	14340 Apr 30 11:26	13° $\text{II}\text{37}'27$	23°52'49
retrograde	14339 May 28 17:40	5° $\text{G}\text{32}'32$		retrograde	14340 May 11 12:02	20° $\text{II}\text{05}'47$	
evening set	14339 Jun 02 13:56	3° $\text{G}\text{30}'45$		asc. node	14340 May 12 07:37	20° $\text{II}\text{02}'49$	
	14339 Jun 05 18:44	30° $\text{R}\text{II}$		evening set	14340 May 16 19:54	17° $\text{II}\text{50}'35$	
inferior conj	14339 Jun 07 20:57	27° $\text{II}\text{08}'52$	2°58'26	min. Earth dist.	14340 May 21 12:45	12° $\text{II}\text{21}'53$	0.68765 AU
minimum elong	14339 Jun 07 19:36	27° $\text{II}\text{13}'35$	2°57'12	inferior conj	14340 May 22 06:11	11° $\text{II}\text{22}'25$	2°37'01
min. Earth dist.	14339 Jun 07 16:14	27° $\text{II}\text{25}'19$	0.69005 AU	minimum elong	14340 May 22 04:14	11° $\text{II}\text{29}'05$	2°35'38
morning rise	14339 Jun 13 01:06	20° $\text{II}\text{57}'17$		morning rise	14340 May 27 12:35	5° $\text{II}\text{18}'51$	
direct	14339 Jun 17 15:44	19° $\text{II}\text{02}'01$		direct	14340 May 31 14:53	3° $\text{II}\text{43}'52$	
morning max el	14339 Jun 26 16:33	24° $\text{II}\text{17}'37$	21°39'55	morning max el	14340 Jun 08 12:33	8° $\text{II}\text{11}'57$	20°22'33
desc. node	14339 Jun 28 08:57	26° $\text{II}\text{03}'31$		desc. node	14340 Jun 14 06:03	14° $\text{II}\text{49}'10$	
	14339 Jul 01 18:02	0° $\text{G}$			14340 Jun 25 02:34	0° $\text{G}$	
	14339 Jul 22 21:22	0° $\text{Q}$		morning set	14340 Jul 07 01:56	18° $\text{G}\text{04}'25$	
morning set	14339 Jul 28 17:50	9° $\text{Q}\text{07}'54$			14340 Jul 14 16:46	0° $\text{Q}$	
max. Earth dist.	14339 Aug 03 22:36	19° $\text{Q}\text{09}'16$	1.42134 AU	max. Earth dist.	14340 Jul 16 08:12	2° $\text{Q}\text{37}'13$	1.44005 AU
	14339 Aug 10 09:04	0° $\text{P}$					
				superior conj	14340 Jul 22 12:17	12° $\text{Q}\text{38}'31$	-1°56'10
superior conj	14339 Aug 11 12:59	2° $\text{P}\text{00}'42$	-1°27'05	minimum elong	14340 Jul 22 19:29	13° $\text{Q}\text{08}'10$	1°56'27
minimum elong	14339 Aug 11 19:38	2° $\text{P}\text{29}'35$	1°26'48		14340 Aug 01 18:40	0° $\text{P}$	
asc. node	14339 Aug 22 10:48	21° $\text{P}\text{34}'07$		evening rise	14340 Aug 04 04:21	4° $\text{P}\text{10}'00$	
evening rise	14339 Aug 22 12:43	21° $\text{P}\text{42}'51$		asc. node	14340 Aug 08 07:25	11° $\text{P}\text{19}'26$	
	14339 Aug 27 02:16	0° $\text{U}$			14340 Aug 20 19:20	0° $\text{U}$	
evening max el	14339 Sep 07 14:25	17° $\text{U}\text{09}'59$	18°08'37	evening max el	14340 Aug 21 04:16	0° $\text{U}\text{22}'36$	18°02'38
retrograde	14339 Sep 14 14:47	20° $\text{U}\text{44}'51$		retrograde	14340 Aug 27 15:46	3° $\text{U}\text{44}'09$	
evening set	14339 Sep 16 20:23	20° $\text{U}\text{23}'32$		evening set	14340 Aug 30 05:32	3° $\text{U}\text{11}'33$	
inferior conj	14339 Sep 24 00:11	15° $\text{U}\text{34}'10$	0°04'14				

	14340 Sep 03 17:48	30° $\mathbb{R}$ $\mathbb{M}$		asc. node	14341 Jul 26 04:06	0° $\mathbb{M}$ 47'55	
inferior conj	14340 Sep 05 17:16	28° $\mathbb{M}$ 02'50	1°18'07	evening max el	14341 Aug 04 18:42	13° $\mathbb{M}$ 53'59	18°14'59
minimum elong	14340 Sep 05 19:18	27° $\mathbb{M}$ 57'37	1°17'17	retrograde	14341 Aug 11 03:20	17° $\mathbb{M}$ 16'14	
min. Earth dist.	14340 Sep 08 16:00	25° $\mathbb{M}$ 03'14	0.61969 AU	evening set	14341 Aug 14 01:38	16° $\mathbb{M}$ 29'37	
desc. node	14340 Sep 10 03:09	23° $\mathbb{M}$ 41'10		inferior conj	14341 Aug 20 00:49	11° $\mathbb{M}$ 03'52	2°11'01
morning rise	14340 Sep 12 06:36	21° $\mathbb{M}$ 58'29		minimum elong	14341 Aug 20 03:15	10° $\mathbb{M}$ 56'54	2°09'55
direct	14340 Sep 18 22:53	19° $\mathbb{M}$ 37'28		min. Earth dist.	14341 Aug 22 11:12	8° $\mathbb{M}$ 17'46	0.64124 AU
morning max el	14340 Oct 03 02:06	27° $\mathbb{M}$ 35'56	27°58'20	morning rise	14341 Aug 26 03:17	4° $\mathbb{M}$ 45'21	
	14340 Oct 05 09:16	0° $\mathbb{L}$		desc. node	14341 Aug 28 00:42	3° $\mathbb{M}$ 28'32	
	14340 Oct 26 06:42	0° $\mathbb{M}$		direct	14341 Sep 01 17:33	2° $\mathbb{M}$ 10'39	
asc. node	14340 Nov 04 09:26	17° $\mathbb{M}$ 06'09		morning max el	14341 Sep 15 12:00	10° $\mathbb{M}$ 09'46	27°34'43
morning set	14340 Nov 05 21:55	20° $\mathbb{M}$ 11'36			14341 Oct 01 02:24	0° $\mathbb{L}$	
	14340 Nov 10 13:15	0° $\mathbb{X}$			14341 Oct 18 16:08	0° $\mathbb{M}$	
max. Earth dist.	14340 Nov 11 08:49	1° $\mathbb{X}$ 46'23	1.31632 AU	morning set	14341 Oct 20 13:58	3° $\mathbb{M}$ 44'16	
				asc. node	14341 Oct 22 06:08	7° $\mathbb{M}$ 05'29	
superior conj	14340 Nov 13 08:27	6° $\mathbb{X}$ 07'44	1°15'46	max. Earth dist.	14341 Oct 25 07:09	13° $\mathbb{M}$ 21'59	1.32646 AU
minimum elong	14340 Nov 13 06:15	5° $\mathbb{X}$ 55'35	1°16'24				
evening rise	14340 Nov 20 02:01	20° $\mathbb{X}$ 56'57		superior conj	14341 Oct 28 14:22	20° $\mathbb{M}$ 23'35	0°56'46
	14340 Nov 24 09:35	0° $\mathbb{Z}$		minimum elong	14341 Oct 28 12:07	20° $\mathbb{M}$ 11'27	0°57'07
desc. node	14340 Dec 07 00:05	21° $\mathbb{Z}$ 53'10			14341 Nov 02 00:32	0° $\mathbb{X}$	
	14340 Dec 13 11:18	0° $\mathbb{Z}$		evening rise	14341 Nov 04 13:04	5° $\mathbb{X}$ 26'59	
evening max el	14340 Dec 15 14:27	2° $\mathbb{Z}$ 10'01	24°37'43		14341 Nov 17 11:23	0° $\mathbb{Z}$	
retrograde	14340 Dec 29 07:40	9° $\mathbb{Z}$ 00'39		desc. node	14341 Nov 23 21:13	8° $\mathbb{Z}$ 48'56	
evening set	14341 Jan 03 15:53	7° $\mathbb{Z}$ 57'45		evening max el	14341 Nov 27 00:08	12° $\mathbb{Z}$ 09'58	22°55'27
min. Earth dist.	14341 Jan 09 02:15	5° $\mathbb{Z}$ 09'25	0.56106 AU	retrograde	14341 Dec 10 03:04	18° $\mathbb{Z}$ 40'43	
inferior conj	14341 Jan 11 11:36	3° $\mathbb{Z}$ 39'33	-5°23'37	evening set	14341 Dec 14 04:14	18° $\mathbb{Z}$ 05'03	
minimum elong	14341 Jan 11 19:30	3° $\mathbb{Z}$ 27'08	5°21'13	min. Earth dist.	14341 Dec 21 09:11	14° $\mathbb{Z}$ 46'12	0.54864 AU
	14341 Jan 18 13:07	30° $\mathbb{R}$ $\mathbb{Z}$		inferior conj	14341 Dec 22 13:03	14° $\mathbb{Z}$ 06'28	-5°58'31
morning rise	14341 Jan 20 01:12	29° $\mathbb{Z}$ 35'55		minimum elong	14341 Dec 22 14:08	14° $\mathbb{Z}$ 04'55	5°57'28
direct	14341 Jan 22 08:58	29° $\mathbb{Z}$ 21'15		morning rise	14341 Dec 31 01:27	10° $\mathbb{Z}$ 17'38	
	14341 Jan 26 00:53	0° $\mathbb{Z}$		direct	14342 Jan 03 01:40	9° $\mathbb{Z}$ 56'35	
asc. node	14341 Jan 31 08:26	3° $\mathbb{Z}$ 18'15		morning max el	14342 Jan 14 12:09	15° $\mathbb{Z}$ 25'19	20°56'33
morning max el	14341 Feb 01 05:40	4° $\mathbb{Z}$ 07'28	19°35'34	asc. node	14342 Jan 18 05:46	19° $\mathbb{Z}$ 32'46	
	14341 Feb 17 11:20	0° $\mathbb{X}$			14342 Jan 25 04:51	0° $\mathbb{Z}$	
morning set	14341 Feb 18 13:10	2° $\mathbb{X}$ 09'27		morning set	14342 Feb 02 21:27	16° $\mathbb{Z}$ 50'41	
					14342 Feb 09 04:45	0° $\mathbb{X}$	
superior conj	14341 Feb 26 13:03	18° $\mathbb{X}$ 11'17	0°51'47				
minimum elong	14341 Feb 26 15:38	18° $\mathbb{X}$ 24'01	0°51'42	superior conj	14342 Feb 10 06:35	2° $\mathbb{X}$ 13'09	1°13'11
	14341 Mar 04 17:47	0° $\mathbb{Y}$		minimum elong	14342 Feb 10 09:09	2° $\mathbb{X}$ 26'18	1°13'26
max. Earth dist.	14341 Mar 04 21:35	0° $\mathbb{Y}$ 17'33	1.37751 AU	max. Earth dist.	14342 Feb 15 06:37	12° $\mathbb{X}$ 15'16	1.35608 AU
desc. node	14341 Mar 05 01:10	0° $\mathbb{Y}$ 34'02		evening rise	14342 Feb 19 05:20	19° $\mathbb{X}$ 46'46	
evening rise	14341 Mar 08 14:32	6° $\mathbb{Y}$ 58'24		desc. node	14342 Feb 19 21:42	21° $\mathbb{X}$ 02'36	
	14341 Mar 22 17:10	0° $\mathbb{Z}$			14342 Feb 24 22:08	0° $\mathbb{Y}$	
evening max el	14341 Apr 13 01:02	27° $\mathbb{Z}$ 31'06	25°10'51		14342 Mar 16 17:57	0° $\mathbb{Z}$	
	14341 Apr 15 17:50	0° $\mathbb{I}$		evening max el	14342 Mar 26 14:39	11° $\mathbb{Z}$ 20'44	26°18'26
retrograde	14341 Apr 25 02:18	4° $\mathbb{I}$ 30'47		retrograde	14342 Apr 08 11:37	18° $\mathbb{Z}$ 40'48	
asc. node	14341 Apr 29 04:56	3° $\mathbb{I}$ 19'10		evening set	14342 Apr 14 17:43	16° $\mathbb{Z}$ 09'14	
evening set	14341 Apr 30 21:44	2° $\mathbb{I}$ 05'13		asc. node	14342 Apr 16 02:19	14° $\mathbb{Z}$ 55'38	
	14341 May 03 00:11	30° $\mathbb{R}$ $\mathbb{Z}$		min. Earth dist.	14342 Apr 18 20:32	11° $\mathbb{Z}$ 52'13	0.66917 AU
min. Earth dist.	14341 May 05 06:52	27° $\mathbb{Z}$ 12'58	0.68062 AU	inferior conj	14342 Apr 20 15:21	9° $\mathbb{Z}$ 41'08	1°22'16
inferior conj	14341 May 06 13:00	25° $\mathbb{Z}$ 34'35	2°05'08	minimum elong	14342 Apr 20 13:31	9° $\mathbb{Z}$ 46'45	1°21'03
minimum elong	14341 May 06 10:51	25° $\mathbb{Z}$ 41'39	2°03'43	morning rise	14342 Apr 26 10:13	3° $\mathbb{Z}$ 57'43	
morning rise	14341 May 12 00:17	19° $\mathbb{Z}$ 40'23		direct	14342 Apr 29 14:01	3° $\mathbb{Z}$ 01'25	
direct	14341 May 15 14:55	18° $\mathbb{Z}$ 25'34		morning max el	14342 May 06 02:36	6° $\mathbb{Z}$ 29'46	18°31'20
morning max el	14341 May 22 16:05	22° $\mathbb{Z}$ 17'09	19°18'58	desc. node	14342 May 18 23:50	23° $\mathbb{Z}$ 59'31	
	14341 May 29 02:59	0° $\mathbb{I}$			14342 May 22 20:19	0° $\mathbb{I}$	
desc. node	14341 Jun 01 03:00	4° $\mathbb{I}$ 11'02		morning set	14342 May 26 23:51	6° $\mathbb{I}$ 31'12	
greatest brilliancy	14341 Jun 04 09:30	8° $\mathbb{I}$ 57'07	-0.7m		14342 Jun 10 23:43	0° $\mathbb{Z}$	
morning set	14341 Jun 16 04:58	26° $\mathbb{I}$ 52'54					
	14341 Jun 18 05:32	0° $\mathbb{Z}$		superior conj	14342 Jun 11 22:20	1° $\mathbb{Z}$ 28'15	-2°09'37
max. Earth dist.	14341 Jun 29 00:04	16° $\mathbb{Z}$ 45'43	1.45293 AU	minimum elong	14342 Jun 11 17:27	1° $\mathbb{Z}$ 09'13	2°10'29
				max. Earth dist.	14342 Jun 11 19:25	1° $\mathbb{Z}$ 16'52	1.45871 AU
superior conj	14341 Jul 02 12:37	22° $\mathbb{Z}$ 19'26	-2°12'23	evening rise	14342 Jun 27 16:01	26° $\mathbb{Z}$ 10'10	
minimum elong	14341 Jul 02 15:27	22° $\mathbb{Z}$ 30'42	2°13'20		14342 Jun 30 02:08	0° $\mathbb{Z}$	
	14341 Jul 07 07:56	0° $\mathbb{Z}$		greatest brilliancy	14342 Jul 06 02:06	9° $\mathbb{Z}$ 26'48	-0.8m
evening rise	14341 Jul 16 22:31	15° $\mathbb{Z}$ 40'55		asc. node	14342 Jul 13 00:51	19° $\mathbb{Z}$ 53'31	
	14341 Jul 25 16:03	0° $\mathbb{M}$		evening max el	14342 Jul 19 06:48	27° $\mathbb{Z}$ 37'03	18°44'57

	14342 Jul 22 04:26	0°♍			14343 Jun 23 13:06	0°♎		
retrograde	14342 Jul 25 21:34	1°♍13'16		asc. node	14343 Jun 29 21:41	8°♎27'49		
evening set	14342 Jul 29 04:47	0°♍10'48		evening max el	14343 Jul 02 14:19	11°♎25'47	19°31'40	
	14342 Jul 29 11:25	30°♋♎		retrograde	14343 Jul 09 19:20	15°♎28'18		
inferior conj	14342 Aug 03 19:05	24°♎30'07	2°45'35	evening set	14343 Jul 13 12:03	14°♎08'56		
minimum elong	14342 Aug 03 21:02	24°♎24'02	2°44'31	inferior conj	14343 Jul 18 20:48	8°♎14'53	3°04'49	
min. Earth dist.	14342 Aug 05 15:21	22°♎12'27	0.65977 AU	minimum elong	14343 Jul 18 21:51	8°♎11'23	3°03'49	
morning rise	14342 Aug 09 12:21	18°♎05'28		min. Earth dist.	14343 Jul 20 02:47	6°♎35'36	0.67423 AU	
desc. node	14342 Aug 14 22:11	15°♎29'17		morning rise	14343 Jul 24 07:08	1°♎50'04		
direct	14342 Aug 15 20:05	15°♎26'11			14343 Jul 26 23:32	30°♋♏		
morning max el	14342 Aug 28 23:25	23°♎13'14	26°40'44	direct	14343 Jul 30 05:13	29°♏15'01		
	14342 Sep 04 00:01	0°♍		desc. node	14343 Aug 01 19:36	29°♏40'35		
	14342 Sep 24 10:14	0°♎			14343 Aug 02 16:55	0°♎		
morning set	14342 Oct 03 18:50	16°♎44'48		morning max el	14343 Aug 11 10:19	6°♎34'06	25°25'23	
max. Earth dist.	14342 Oct 07 19:51	24°♎36'15	1.34191 AU		14343 Aug 29 15:10	0°♍		
asc. node	14342 Oct 09 02:45	27°♎11'05		morning set	14343 Sep 16 08:47	29°♍04'34		
	14342 Oct 10 12:00	0°♌			14343 Sep 16 21:03	0°♎		
				max. Earth dist.	14343 Sep 19 22:56	5°♎40'45	1.36201 AU	
superior conj	14342 Oct 12 14:12	4°♌19'15	0°32'06	asc. node	14343 Sep 25 23:20	17°♎19'13		
minimum elong	14342 Oct 12 12:34	4°♌10'46	0°32'17					
evening rise	14342 Oct 19 22:50	19°♌51'42		superior conj	14343 Sep 26 05:07	17°♎48'05	0°02'15	
	14342 Oct 24 21:58	0°♊		minimum elong	14343 Sep 26 04:58	17°♎47'20	0°02'26	
evening max el	14342 Nov 08 15:16	22°♊18'28	21°17'44	behind sun begin	14343 Sep 25 22:42	17°♎16'07		
desc. node	14342 Nov 10 18:27	24°♊13'56		behind sun end	14343 Sep 26 11:14	18°♎18'37		
retrograde	14342 Nov 20 14:21	28°♊14'37			14343 Oct 02 05:11	0°♌		
evening set	14342 Nov 23 08:14	27°♊57'08		evening rise	14343 Oct 04 05:13	4°♌05'58		
inferior conj	14342 Dec 02 04:32	24°♊04'31	-5°35'36		14343 Oct 19 01:01	0°♊		
minimum elong	14342 Dec 01 20:59	24°♊15'10	5°33'23	evening max el	14343 Oct 21 19:37	3°♊07'29	19°57'05	
min. Earth dist.	14342 Dec 02 15:00	23°♊49'46	0.54465 AU	desc. node	14343 Oct 28 15:47	7°♊42'05		
morning rise	14342 Dec 10 10:17	20°♊14'36		retrograde	14343 Nov 01 03:59	8°♊16'53		
direct	14342 Dec 14 09:05	19°♊40'56		evening set	14343 Nov 03 04:06	8°♊06'09		
morning max el	14342 Dec 27 05:00	25°♊52'19	22°37'16	inferior conj	14343 Nov 12 00:30	4°♊06'50	-4°17'35	
	14342 Dec 31 01:09	0°♊		minimum elong	14343 Nov 11 14:32	4°♊21'58	4°13'39	
asc. node	14343 Jan 05 03:00	6°♊55'00		min. Earth dist.	14343 Nov 13 22:50	2°♊56'23	0.55014 AU	
	14343 Jan 17 14:21	0°♋		morning rise	14343 Nov 19 23:40	29°♌56'01		
morning set	14343 Jan 18 08:31	1°♋35'54			14343 Nov 19 19:10	30°♋♌		
				direct	14343 Nov 24 21:27	29°♌03'18		
superior conj	14343 Jan 25 08:18	16°♋35'38	1°27'48		14343 Nov 29 21:37	0°♊		
minimum elong	14343 Jan 25 10:11	16°♋45'41	1°28'26	morning max el	14343 Dec 08 14:40	5°♊51'00	24°26'31	
max. Earth dist.	14343 Jan 28 21:55	24°♋05'10	1.33789 AU	asc. node	14343 Dec 23 00:08	25°♊08'56		
	14343 Jan 31 19:50	0°♉			14343 Dec 25 17:35	0°♊		
evening rise	14343 Feb 02 10:18	3°♉09'39		morning set	14344 Jan 02 20:27	16°♊19'49		
desc. node	14343 Feb 06 18:15	11°♉21'36			14344 Jan 09 02:30	0°♋		
	14343 Feb 17 18:52	0°♍						
evening max el	14343 Mar 09 04:08	24°♍57'34	27°08'14	superior conj	14344 Jan 09 15:29	1°♋11'04	1°35'56	
	14343 Mar 15 09:45	0°♌		minimum elong	14344 Jan 09 16:22	1°♋15'56	1°36'51	
retrograde	14343 Mar 22 15:08	2°♌26'37		max. Earth dist.	14344 Jan 11 20:59	6°♋01'59	1.32410 AU	
evening set	14343 Mar 29 05:51	29°♍54'56		evening rise	14344 Jan 17 02:12	16°♋59'12		
	14343 Mar 29 03:12	30°♋♍			14344 Jan 23 19:54	0°♉		
min. Earth dist.	14343 Apr 02 03:42	26°♍10'54	0.65368 AU	desc. node	14344 Jan 24 14:54	1°♉26'20		
asc. node	14343 Apr 02 23:45	25°♍15'09			14344 Feb 12 07:07	0°♍		
inferior conj	14343 Apr 04 10:50	23°♍35'46	0°27'39	evening max el	14344 Feb 19 16:28	8°♍11'22	27°32'59	
minimum elong	14343 Apr 04 10:05	23°♍37'52	0°27'02	retrograde	14344 Mar 04 11:46	15°♍39'09		
morning rise	14343 Apr 10 15:59	18°♍04'54		evening set	14344 Mar 11 07:47	13°♍14'32		
direct	14343 Apr 13 10:05	17°♍24'19		min. Earth dist.	14344 Mar 15 02:34	9°♍59'45	0.63484 AU	
morning max el	14343 Apr 19 18:01	20°♍42'02	18°00'26	inferior conj	14344 Mar 17 20:44	7°♍11'57	-0°39'08	
	14343 Apr 26 23:57	0°♌		minimum elong	14344 Mar 17 21:59	7°♍08'46	0°38'39	
desc. node	14343 May 05 20:33	14°♌06'41		asc. node	14344 Mar 19 21:12	5°♍12'41		
morning set	14343 May 07 21:55	17°♌28'38		morning rise	14344 Mar 24 14:38	1°♍56'00		
	14343 May 15 14:58	0°♐		direct	14344 Mar 27 00:29	1°♍27'39		
				morning max el	14344 Apr 02 11:38	4°♍46'05	17°46'48	
superior conj	14343 May 22 09:45	10°♐48'04	-1°47'27	morning set	14344 Apr 18 22:36	29°♍42'23		
minimum elong	14343 May 22 00:47	10°♐12'44	1°47'37		14344 Apr 19 02:42	0°♌		
max. Earth dist.	14343 May 25 15:15	15°♐52'32	1.45697 AU	desc. node	14344 Apr 21 17:10	4°♌27'08		
	14343 Jun 03 17:25	0°♏						
evening rise	14343 Jun 07 11:52	5°♏48'33		superior conj	14344 May 01 14:13	20°♏57'49	-1°12'23	
greatest brilliancy	14343 Jun 20 20:56	26°♏06'57	-0.7m	minimum elong	14344 May 01 07:06	20°♏28'45	1°12'12	

	14344 May 07 04:51	0°♂			14345 Apr 29 21:48	0°♂	
max. Earth dist.	14344 May 07 09:45	0°♂19'29	1.44804 AU		14345 May 20 17:48	0°♂	
evening rise	14344 May 16 22:40	15°♂11'46		evening max el	14345 May 28 12:14	9°♂07'27	21°46'10
	14344 May 26 18:12	0°♂		asc. node	14345 Jun 02 15:41	13°♂16'31	
evening max el	14344 Jun 14 16:05	25°♂16'17	20°33'09	retrograde	14345 Jun 06 16:31	14°♂29'34	
asc. node	14344 Jun 15 18:38	26°♂19'55		evening set	14345 Jun 11 06:24	12°♂36'23	
retrograde	14344 Jun 22 18:14	29°♂55'18		inferior conj	14345 Jun 16 12:26	6°♂19'46	3°06'06
evening set	14344 Jun 26 21:11	28°♂18'45		minimum elong	14345 Jun 16 11:33	6°♂22'51	3°04'58
inferior conj	14344 Jul 02 03:18	22°♂12'40	3°11'08	min. Earth dist.	14345 Jun 16 15:08	6°♂10'21	0.68928 AU
minimum elong	14344 Jul 02 03:22	22°♂12'28	3°10'06	morning rise	14345 Jun 21 16:31	0°♂04'27	
min. Earth dist.	14344 Jul 02 19:23	21°♂17'22	0.68414 AU		14345 Jun 21 18:34	30°♂♂	
morning rise	14344 Jul 07 09:14	15°♂51'27		direct	14345 Jun 26 14:28	27°♂♂58'05	
direct	14344 Jul 12 19:44	13°♂28'07			14345 Jul 02 00:44	0°♂	
desc. node	14344 Jul 18 16:56	15°♂38'33		desc. node	14345 Jul 05 14:10	2°♂57'55	
morning max el	14344 Jul 23 20:38	20°♂04'17	23°58'22	morning max el	14345 Jul 06 08:30	3°♂42'56	22°29'10
	14344 Aug 01 08:06	0°♂			14345 Jul 26 10:07	0°♂	
	14344 Aug 21 19:10	0°♂		morning set	14345 Aug 08 22:25	20°♂57'44	
morning set	14344 Aug 28 03:19	10°♂31'52		max. Earth dist.	14345 Aug 13 21:13	29°♂09'36	1.40874 AU
max. Earth dist.	14344 Aug 31 21:05	17°♂02'28	1.38516 AU		14345 Aug 14 09:08	0°♂	
	14344 Sep 07 22:56	0°♂					
				superior conj	14345 Aug 21 17:25	12°♂48'21	-1°07'17
superior conj	14344 Sep 08 07:35	0°♂40'57	-0°31'41	minimum elong	14345 Aug 21 22:35	13°♂11'33	1°06'55
minimum elong	14344 Sep 08 09:49	0°♂51'33	0°31'22	asc. node	14345 Aug 29 16:26	27°♂27'36	
asc. node	14344 Sep 11 19:52	7°♂25'49			14345 Aug 31 00:53	0°♂	
evening rise	14344 Sep 17 05:36	18°♂02'31		evening rise	14345 Aug 31 20:46	1°♂33'30	
	14344 Sep 23 11:43	0°♂		evening max el	14345 Sep 16 19:11	27°♂07'51	18°20'42
evening max el	14344 Oct 03 14:00	14°♂45'31	18°58'03		14345 Sep 20 13:57	0°♂	
retrograde	14344 Oct 12 08:03	19°♂09'23		retrograde	14345 Sep 24 07:42	0°♂56'58	
evening set	14344 Oct 14 05:03	18°♂58'05		evening set	14345 Sep 26 09:11	0°♂40'27	
desc. node	14344 Oct 14 13:12	18°♂53'42			14345 Sep 28 05:07	30°♂♂	
inferior conj	14344 Oct 22 13:02	14°♂41'25	-2°31'55	desc. node	14345 Oct 01 10:39	28°♂01'26	
minimum elong	14344 Oct 22 06:39	14°♂52'34	2°28'49	inferior conj	14345 Oct 03 23:18	26°♂02'32	-0°48'06
min. Earth dist.	14344 Oct 25 10:52	12°♂39'50	0.56410 AU	minimum elong	14345 Oct 03 21:30	26°♂06'14	0°47'01
morning rise	14344 Oct 30 05:21	9°♂56'07		min. Earth dist.	14345 Oct 07 05:54	23°♂22'38	0.58392 AU
direct	14344 Nov 04 22:26	8°♂39'12		morning rise	14345 Oct 11 06:21	20°♂40'16	
morning max el	14344 Nov 19 01:58	15°♂54'58	26°06'31	direct	14345 Oct 17 13:12	18°♂56'31	
	14344 Nov 30 11:45	0°♂		morning max el	14345 Oct 31 20:36	26°♂34'25	27°19'37
asc. node	14344 Dec 08 21:10	14°♂00'56			14345 Nov 04 02:54	0°♂	
	14344 Dec 16 20:51	0°♂			14345 Nov 23 23:53	0°♂	
morning set	14344 Dec 17 07:30	0°♂57'03		asc. node	14345 Nov 25 18:07	3°♂21'06	
				morning set	14345 Dec 01 15:55	15°♂23'12	
					14345 Dec 08 07:28	0°♂	
superior conj	14344 Dec 24 01:50	15°♂52'09	1°37'55				
minimum elong	14344 Dec 24 01:39	15°♂51'04	1°38'57	superior conj	14345 Dec 08 13:26	0°♂33'21	1°33'56
max. Earth dist.	14344 Dec 25 02:14	18°♂07'39	1.31520 AU	minimum elong	14345 Dec 08 12:14	0°♂26'43	1°34'54
	14344 Dec 30 13:21	0°♂		max. Earth dist.	14345 Dec 08 10:24	0°♂16'27	1.31142 AU
evening rise	14344 Dec 31 02:11	1°♂07'29		evening rise	14345 Dec 15 07:49	15°♂28'32	
desc. node	14345 Jan 10 11:39	21°♂10'01			14345 Dec 22 12:09	0°♂	
	14345 Jan 15 19:12	0°♂		desc. node	14345 Dec 28 08:29	10°♂24'15	
evening max el	14345 Feb 01 01:20	20°♂49'00	27°26'33		14346 Jan 11 13:22	0°♂	
retrograde	14345 Feb 15 00:13	28°♂09'09		evening max el	14346 Jan 14 03:49	2°♂38'06	26°45'20
evening set	14345 Feb 21 20:43	25°♂59'09		retrograde	14346 Jan 28 03:07	9°♂48'23	
min. Earth dist.	14345 Feb 25 15:29	23°♂07'37	0.61363 AU	evening set	14346 Feb 03 17:09	8°♂00'13	
inferior conj	14345 Feb 28 17:46	20°♂21'16	-1°57'15	min. Earth dist.	14346 Feb 07 17:41	5°♂22'10	0.59162 AU
minimum elong	14345 Feb 28 21:56	20°♂11'52	1°55'18	inferior conj	14346 Feb 10 22:11	2°♂53'08	-3°22'41
asc. node	14345 Mar 06 18:40	15°♂53'46		minimum elong	14346 Feb 11 05:36	2°♂38'38	3°19'28
morning rise	14345 Mar 08 02:12	15°♂23'15			14346 Feb 14 22:39	30°♂♂	
direct	14345 Mar 10 05:47	15°♂03'28		morning rise	14346 Feb 18 21:14	28°♂16'09	
morning max el	14345 Mar 17 04:20	18°♂33'12	17°51'12	direct	14346 Feb 20 21:39	28°♂01'25	
	14345 Mar 25 11:45	0°♂		asc. node	14346 Feb 21 16:09	28°♂03'38	
morning set	14345 Apr 01 20:14	12°♂55'15			14346 Feb 26 11:12	0°♂	
desc. node	14345 Apr 08 13:45	24°♂56'36		morning max el	14346 Feb 28 16:31	1°♂52'54	18°14'52
	14345 Apr 11 11:19	0°♂		morning set	14346 Mar 16 08:50	26°♂48'35	
					14346 Mar 18 01:23	0°♂	
superior conj	14345 Apr 12 18:32	2°♂14'17	-0°33'02				
minimum elong	14345 Apr 12 15:29	2°♂01'15	0°33'00	superior conj	14346 Mar 25 21:31	14°♂33'00	0°04'20
max. Earth dist.	14345 Apr 20 01:12	14°♂24'09	1.43283 AU	minimum elong	14346 Mar 25 21:50	14°♂34'26	0°04'07
evening rise	14345 Apr 26 16:51	25°♂01'38					

behind sun begin	14346 Mar 25 14:35	14° $\Upsilon$ 01'37		desc. node	14347 Mar 13 06:50	6° $\Upsilon$ 05'51	
behind sun end	14346 Mar 26 05:05	15° $\Upsilon$ 07'10		max. Earth dist.	14347 Mar 15 18:46	10° $\Upsilon$ 36'14	1.39052 AU
desc. node	14346 Mar 26 10:18	15° $\Upsilon$ 30'40		evening rise	14347 Mar 19 14:34	17° $\Upsilon$ 16'53	
max. Earth dist.	14346 Apr 02 12:00	27° $\Upsilon$ 51'55	1.41291 AU		14347 Mar 27 08:00	0° $\text{B}$	
	14346 Apr 03 18:24	0° $\text{B}$			14347 Apr 17 13:17	0° $\Pi$	
evening rise	14346 Apr 07 05:04	5° $\text{B}$ 41'22		evening max el	14347 Apr 23 17:50	6° $\Pi$ 52'04	24°26'42
	14346 Apr 23 02:10	0° $\Pi$		retrograde	14347 May 05 05:36	13° $\Pi$ 35'44	
evening max el	14346 May 11 04:05	22° $\Pi$ 58'56	23°06'02	asc. node	14347 May 07 10:05	13° $\Pi$ 14'49	
asc. node	14346 May 20 12:51	29° $\Pi$ 00'25		evening set	14347 May 10 18:25	11° $\Pi$ 15'30	
retrograde	14346 May 21 12:42	29° $\Pi$ 04'51		min. Earth dist.	14347 May 15 07:43	6° $\Pi$ 02'22	0.68522 AU
evening set	14346 May 26 14:00	26° $\Pi$ 56'46		inferior conj	14347 May 16 06:37	4° $\Pi$ 45'28	2°24'47
inferior conj	14346 May 31 22:10	20° $\Pi$ 31'47	2°50'34	minimum elong	14347 May 16 04:31	4° $\Pi$ 52'30	2°23'22
minimum elong	14346 May 31 20:31	20° $\Pi$ 37'28	2°49'18		14347 May 20 04:33	30° $\text{R}$ $\text{B}$	
min. Earth dist.	14346 May 31 11:56	21° $\Pi$ 07'12	0.68960 AU	morning rise	14347 May 21 14:46	28° $\text{B}$ 45'42	
morning rise	14346 Jun 06 02:58	14° $\Pi$ 23'41		direct	14347 May 25 11:53	27° $\text{B}$ 19'38	
direct	14346 Jun 10 12:16	12° $\Pi$ 37'10			14347 May 31 08:11	0° $\Pi$	
morning max el	14346 Jun 19 00:54	17° $\Pi$ 31'19	21°05'38	morning max el	14347 Jun 02 00:08	1° $\Pi$ 31'01	19°53'35
desc. node	14346 Jun 22 11:20	21° $\Pi$ 16'45		desc. node	14347 Jun 09 08:23	10° $\Pi$ 19'24	
	14346 Jun 29 05:45	0° $\text{C}$			14347 Jun 22 21:06	0° $\text{C}$	
	14346 Jul 19 11:54	0° $\Omega$		morning set	14347 Jun 28 20:34	9° $\text{C}$ 06'46	
morning set	14346 Jul 19 17:18	0° $\Omega$ 21'06		max. Earth dist.	14347 Jul 09 14:59	25° $\text{C}$ 54'16	1.44629 AU
max. Earth dist.	14346 Jul 27 03:01	12° $\Omega$ 09'09	1.42988 AU		14347 Jul 12 04:41	0° $\Omega$	
superior conj	14346 Aug 03 06:08	23° $\Omega$ 59'42	-1°40'31	superior conj	14347 Jul 14 19:10	4° $\Omega$ 11'25	-2°05'05
minimum elong	14346 Aug 03 13:27	24° $\Omega$ 30'48	1°40'25	minimum elong	14347 Jul 15 01:11	4° $\Omega$ 35'47	2°05'40
	14346 Aug 06 18:08	0° $\text{P}$		evening rise	14347 Jul 28 05:27	26° $\Omega$ 31'35	
evening rise	14346 Aug 14 22:24	14° $\text{P}$ 27'19			14347 Jul 30 06:29	0° $\text{P}$	
asc. node	14346 Aug 16 13:02	17° $\text{P}$ 20'04		asc. node	14347 Aug 03 09:39	6° $\text{P}$ 58'49	
	14346 Aug 23 20:35	0° $\text{A}$		evening max el	14347 Aug 14 21:22	23° $\text{P}$ 25'43	18°05'45
evening max el	14346 Aug 31 06:56	10° $\text{A}$ 04'27	18°03'44	retrograde	14347 Aug 21 06:39	26° $\text{P}$ 46'07	
retrograde	14346 Sep 07 00:43	13° $\text{A}$ 32'22		evening set	14347 Aug 23 23:54	26° $\text{P}$ 08'00	
evening set	14346 Sep 09 09:35	13° $\text{A}$ 06'44		inferior conj	14347 Aug 30 05:52	20° $\text{P}$ 52'00	1°42'58
inferior conj	14346 Sep 16 06:10	8° $\text{A}$ 08'42	0°38'11	minimum elong	14347 Aug 30 08:13	20° $\text{P}$ 45'41	1°41'58
minimum elong	14346 Sep 16 07:20	8° $\text{A}$ 05'56	0°37'48	min. Earth dist.	14347 Sep 01 23:50	17° $\text{P}$ 55'38	0.62906 AU
desc. node	14346 Sep 18 08:10	6° $\text{A}$ 09'37		desc. node	14347 Sep 05 05:42	14° $\text{P}$ 56'48	
min. Earth dist.	14346 Sep 19 10:01	5° $\text{A}$ 09'55	0.60646 AU	morning rise	14347 Sep 05 14:23	14° $\text{P}$ 40'18	
morning rise	14346 Sep 23 02:03	2° $\text{A}$ 16'28		direct	14347 Sep 12 06:28	12° $\text{P}$ 12'03	
direct	14346 Sep 29 16:35	0° $\text{A}$ 07'21		morning max el	14347 Sep 26 06:52	20° $\text{P}$ 13'14	27°52'33
morning max el	14346 Oct 13 23:02	8° $\text{A}$ 01'34	27°55'35		14347 Oct 04 16:42	0° $\text{A}$	
	14346 Oct 30 18:01	0° $\text{M}$			14347 Oct 23 18:37	0° $\text{M}$	
asc. node	14346 Nov 12 14:59	23° $\text{M}$ 01'39		asc. node	14347 Oct 30 11:42	12° $\text{M}$ 55'39	
morning set	14346 Nov 15 19:49	29° $\text{M}$ 33'38		morning set	14347 Oct 30 16:54	13° $\text{M}$ 21'52	
	14346 Nov 16 00:51	0° $\text{J}$		max. Earth dist.	14347 Nov 04 20:06	24° $\text{M}$ 05'53	1.31985 AU
max. Earth dist.	14346 Nov 21 17:43	12° $\text{J}$ 19'30	1.31290 AU				
superior conj	14346 Nov 23 00:23	15° $\text{J}$ 09'37	1°24'06	superior conj	14347 Nov 07 08:43	29° $\text{M}$ 34'40	1°08'27
minimum elong	14346 Nov 22 22:27	14° $\text{J}$ 58'50	1°24'52	minimum elong	14347 Nov 07 06:25	29° $\text{M}$ 22'07	1°08'56
evening rise	14346 Nov 29 17:02	29° $\text{J}$ 57'18		evening rise	14347 Nov 07 13:21	0° $\text{J}$	
	14346 Nov 29 17:32	0° $\text{Z}$			14347 Nov 21 19:16	0° $\text{Z}$	
desc. node	14346 Dec 15 05:25	28° $\text{Z}$ 58'03		desc. node	14347 Dec 02 02:29	16° $\text{Z}$ 35'27	
	14346 Dec 15 21:46	0° $\approx$		evening max el	14347 Dec 08 09:01	23° $\text{Z}$ 47'38	23°54'55
evening max el	14346 Dec 26 21:57	13° $\approx$ 34'28	25°31'27		14347 Dec 18 04:32	0° $\approx$	
retrograde	14347 Jan 09 19:08	20° $\approx$ 33'59		retrograde	14347 Dec 21 22:08	0° $\approx$ 31'44	
evening set	14347 Jan 15 17:10	19° $\approx$ 13'39			14347 Dec 25 17:13	30° $\text{R}$ $\text{Z}$	
min. Earth dist.	14347 Jan 20 10:24	16° $\approx$ 34'12	0.57105 AU	evening set	14347 Dec 26 17:41	29° $\text{Z}$ 41'16	
inferior conj	14347 Jan 23 06:47	14° $\approx$ 38'36	-4°44'56	min. Earth dist.	14348 Jan 01 20:17	26° $\text{Z}$ 42'04	0.55484 AU
minimum elong	14347 Jan 23 15:48	14° $\approx$ 23'19	4°41'45	inferior conj	14348 Jan 03 18:35	25° $\text{Z}$ 32'45	-5°44'29
morning rise	14347 Jan 31 17:10	10° $\approx$ 23'41		minimum elong	14348 Jan 04 00:19	25° $\text{Z}$ 24'10	5°42'49
direct	14347 Feb 02 19:39	10° $\approx$ 10'22		morning rise	14348 Jan 12 08:43	21° $\text{Z}$ 36'28	
asc. node	14347 Feb 08 13:35	11° $\approx$ 56'50		direct	14348 Jan 14 22:03	21° $\text{Z}$ 19'58	
morning max el	14347 Feb 11 20:11	14° $\approx$ 34'06	18°59'35	morning max el	14348 Jan 25 11:09	26° $\text{Z}$ 24'23	20°07'08
	14347 Feb 22 11:52	0° $\text{H}$		asc. node	14348 Jan 26 10:58	27° $\text{Z}$ 24'23	
morning set	14347 Feb 28 07:44	11° $\text{H}$ 08'39			14348 Jan 28 17:09	0° $\approx$	
				morning set	14348 Feb 12 13:21	25° $\approx$ 44'12	
superior conj	14347 Mar 08 18:59	27° $\text{H}$ 42'02	0°36'19		14348 Feb 14 15:18	0° $\text{H}$	
minimum elong	14347 Mar 08 21:08	27° $\text{H}$ 52'18	0°36'05				
	14347 Mar 10 00:03	0° $\Upsilon$		superior conj	14348 Feb 20 06:17	11° $\text{H}$ 27'27	1°01'40

minimum elong	14348 Feb 20 08:58	11°  40'53	1°01'43	minimum elong	14349 Feb 03 05:57	25°  51'03	1°20'36
max. Earth dist.	14348 Feb 26 01:18	22°  44'35	1.36814 AU		14349 Feb 05 06:03	0° 	
desc. node	14348 Feb 28 03:21	26°  37'52		max. Earth dist.	14349 Feb 07 12:46	4°  37'19	1.34796 AU
evening rise	14348 Feb 29 19:37	29°  41'26		evening rise	14349 Feb 11 16:52	12°  45'44	
	14348 Feb 29 23:44	0° 		desc. node	14349 Feb 13 23:52	17°  02'57	
	14348 Mar 19 14:00	0° 			14349 Feb 21 09:25	0° 	
evening max el	14348 Apr 05 07:22	20°  45'03	25°41'18		14349 Mar 14 14:31	0° 	
retrograde	14348 Apr 17 18:01	27°  55'17		evening max el	14349 Mar 18 21:15	4°  31'22	26°42'15
asc. node	14348 Apr 23 07:26	25°  48'09		retrograde	14349 Apr 01 00:51	11°  55'51	
evening set	14348 Apr 23 17:59	25°  26'46		evening set	14349 Apr 07 10:52	9°  23'47	
min. Earth dist.	14348 Apr 28 00:19	20°  49'23	0.67626 AU	asc. node	14349 Apr 10 04:50	6°  47'07	
inferior conj	14348 Apr 29 11:48	18°  56'18	1°48'22	min. Earth dist.	14349 Apr 11 11:32	5°  20'56	0.66308 AU
minimum elong	14348 Apr 29 09:42	19°  02'59	1°46'59	inferior conj	14349 Apr 13 11:33	2°  58'45	1°00'37
morning rise	14348 May 05 01:58	13°  06'13		minimum elong	14349 Apr 13 10:05	3°  03'07	0°59'35
direct	14348 May 08 11:48	11°  59'36			14349 Apr 16 03:03	30°  R 	
morning max el	14348 May 15 06:44	15°  40'00	18°56'34	morning rise	14349 Apr 19 10:26	27°  Y 	
desc. node	14348 May 26 05:18	29°  53'58		direct	14349 Apr 22 10:02	26°  Y 	
	14348 May 26 06:55	0° 			14349 Apr 28 22:24	0° 	
greatest brilliancy	14348 May 28 15:44	3°  II 	-0.8m	morning max el	14349 Apr 28 19:32	29°  Y 	18°16'01
morning set	14348 Jun 07 04:02	18°  II 		desc. node	14349 May 13 02:05	19°  51'21	
	14348 Jun 14 18:57	0° 		morning set	14349 May 18 09:59	28°  52'10	
max. Earth dist.	14348 Jun 21 08:11	10°  513'00	1.45629 AU		14349 May 19 10:45	0° 	
superior conj	14348 Jun 23 11:45	13°  535'02	-2°13'44	superior conj	14349 Jun 02 19:56	22°  II 	-2°02'18
minimum elong	14348 Jun 23 11:21	13°  533'30	2°14'47	minimum elong	14349 Jun 02 12:31	22°  II 	2°02'54
	14348 Jul 03 20:04	0° 		max. Earth dist.	14349 Jun 04 04:25	24°  II 	1.45894 AU
evening rise	14348 Jul 08 13:13	7°  036'08			14349 Jun 07 12:03	0° 	
asc. node	14348 Jul 20 06:20	26°  018'41		evening rise	14349 Jun 18 20:33	17°  541'01	
	14348 Jul 22 18:19	0° 			14349 Jun 26 18:44	0° 	
evening max el	14348 Jul 28 11:10	7°  03'31	18°25'43	greatest brilliancy	14349 Jun 29 13:29	4°  015'48	-0.8m
retrograde	14348 Aug 03 21:19	10°  029'53		asc. node	14349 Jul 07 03:06	15°  012'10	
evening set	14348 Aug 06 23:23	9°  036'43		evening max el	14349 Jul 11 21:36	20°  050'02	19°02'54
inferior conj	14348 Aug 12 18:23	4°  004'42	2°27'43	retrograde	14349 Jul 18 17:18	24°  035'35	
minimum elong	14348 Aug 12 20:41	3°  057'51	2°26'37	evening set	14349 Jul 22 04:35	23°  025'50	
min. Earth dist.	14348 Aug 14 22:58	1°  028'59	0.64957 AU	inferior conj	14349 Jul 27 16:08	17°  039'18	2°55'27
	14348 Aug 16 06:55	30°  R 		minimum elong	14349 Jul 27 17:44	17°  034'09	2°54'25
morning rise	14348 Aug 18 16:41	27°  042'54		min. Earth dist.	14349 Jul 29 06:15	15°  037'16	0.66651 AU
desc. node	14348 Aug 22 03:12	25°  038'57		morning rise	14349 Aug 02 06:12	11°  014'17	
direct	14348 Aug 25 04:49	25°  004'49		direct	14349 Aug 08 10:12	8°  035'56	
	14348 Sep 04 11:57	0° 		desc. node	14349 Aug 09 00:41	8°  037'18	
morning max el	14348 Sep 07 17:26	3°  000'31	27°14'58	morning max el	14349 Aug 21 04:37	16°  012'07	26°10'43
	14348 Sep 28 00:56	0° 			14349 Sep 01 14:54	0° 	
morning set	14348 Oct 13 04:33	26°  041'45			14349 Sep 20 21:54	0° 	
	14348 Oct 14 20:50	0° 		morning set	14349 Sep 26 03:28	9°  025'21	
asc. node	14348 Oct 16 08:21	2°  058'19		max. Earth dist.	14349 Sep 29 22:43	16°  038'44	1.35002 AU
max. Earth dist.	14348 Oct 17 14:17	5°  030'53	1.33235 AU	asc. node	14349 Oct 03 04:57	23°  020'12	
superior conj	14348 Oct 21 12:20	13°  042'58	0°47'00	superior conj	14349 Oct 05 08:43	27°  027'49	0°20'01
minimum elong	14348 Oct 21 10:15	13°  031'54	0°47'16	minimum elong	14349 Oct 05 07:36	27°  022'07	0°20'12
evening rise	14348 Oct 28 14:36	28°  056'30			14349 Oct 06 14:18	0° 	
	14348 Oct 29 02:34	0° 		evening rise	14349 Oct 12 23:10	13°  017'14	
	14348 Nov 15 09:18	0° 			14349 Oct 21 12:36	0° 	
desc. node	14348 Nov 17 23:37	2°  055'56		evening max el	14349 Oct 31 16:03	14°  009'27	20°40'53
evening max el	14348 Nov 18 19:56	3°  047'07	22°12'33	desc. node	14349 Nov 04 20:52	17°  034'05	
retrograde	14348 Dec 01 12:40	10°  040'25		retrograde	14349 Nov 11 23:01	19°  046'17	
evening set	14348 Dec 04 23:40	9°  038'02		evening set	14349 Nov 14 07:35	19°  032'43	
min. Earth dist.	14348 Dec 13 02:24	6°  000'43	0.54584 AU	inferior conj	14349 Nov 23 05:38	15°  038'39	-5°07'57
inferior conj	14348 Dec 13 14:15	5°  044'06	-5°56'26	minimum elong	14349 Nov 22 20:04	15°  052'25	5°04'47
minimum elong	14348 Dec 13 11:20	5°  048'12	5°55'13	min. Earth dist.	14349 Nov 24 08:15	15°  000'21	0.54585 AU
morning rise	14348 Dec 22 00:02	1°  056'54		morning rise	14349 Dec 01 08:31	11°  042'40	
direct	14348 Dec 25 09:41	1°  031'04		direct	14349 Dec 05 17:35	11°  001'36	
morning max el	14349 Jan 06 11:16	7°  018'40	21°37'17	morning max el	14349 Dec 18 23:46	17°  028'39	23°23'47
asc. node	14349 Jan 12 08:15	14°  009'43			14349 Dec 29 00:08	0° 	
	14349 Jan 21 19:15	0° 		asc. node	14349 Dec 30 05:27	1°  055'32	
morning set	14349 Jan 26 23:04	10°  027'48		morning set	14350 Jan 11 10:45	25°  013'28	
					14350 Jan 13 15:59	0°	
superior conj	14349 Feb 03 03:37	25°  038'52	1°20'10				

superior conj	14350 Jan 18 07:58	10° $\approx$ 07'47	1°32'01	direct	14350 Nov 16 10:08	20° $\mathbb{M}$ 24'46	
minimum elong	14350 Jan 18 09:27	10° $\approx$ 15'49	1°32'47	morning max el	14350 Nov 30 09:16	27° $\mathbb{M}$ 25'19	25°11'36
max. Earth dist.	14350 Jan 21 07:45	16° $\approx$ 30'58	1.33145 AU		14350 Dec 02 21:54	0° $\mathbb{A}$	
evening rise	14350 Jan 26 02:52	26° $\approx$ 21'03		asc. node	14350 Dec 17 02:33	20° $\mathbb{A}$ 26'46	
	14350 Jan 27 23:31	0° $\mathbb{H}$			14350 Dec 22 04:00	0° $\mathbb{B}$	
desc. node	14350 Jan 31 20:27	7° $\mathbb{H}$ 16'51		morning set	14350 Dec 26 22:31	9° $\mathbb{B}$ 55'02	
	14350 Feb 14 18:02	0° $\mathbb{Y}$					
evening max el	14350 Mar 01 10:34	18° $\mathbb{Y}$ 00'46	27°22'12	superior conj	14351 Jan 02 16:44	24° $\mathbb{B}$ 46'11	1°37'31
retrograde	14350 Mar 15 01:22	25° $\mathbb{Y}$ 29'34		minimum elong	14351 Jan 02 17:10	24° $\mathbb{B}$ 48'33	1°38'31
evening set	14350 Mar 21 19:00	22° $\mathbb{Y}$ 59'58		max. Earth dist.	14351 Jan 04 09:42	28° $\mathbb{B}$ 31'23	1.31959 AU
min. Earth dist.	14350 Mar 25 15:19	19° $\mathbb{Y}$ 29'08	0.64609 AU		14351 Jan 05 01:56	0° $\approx$	
inferior conj	14350 Mar 28 03:23	16° $\mathbb{Y}$ 47'12	0°00'52	evening rise	14351 Jan 09 22:28	10° $\approx$ 18'48	
minimum elong	14350 Mar 28 03:22	16° $\mathbb{Y}$ 47'15	0°00'39	desc. node	14351 Jan 18 17:07	27° $\approx$ 13'19	
transit middle	14350 Mar 28 03:22	16° $\mathbb{Y}$ 47'15	0°00'39		14351 Jan 20 06:57	0° $\mathbb{H}$	
transit begin	14350 Mar 28 00:17	16° $\mathbb{Y}$ 55'34			14351 Feb 10 20:59	0° $\mathbb{Y}$	
transit end	14350 Mar 28 06:26	16° $\mathbb{Y}$ 38'57		evening max el	14351 Feb 11 21:30	0° $\mathbb{Y}$ 59'58	27°34'21
asc. node	14350 Mar 28 02:18	16° $\mathbb{Y}$ 50'09		retrograde	14351 Feb 25 18:44	8° $\mathbb{Y}$ 25'38	
morning rise	14350 Apr 03 13:40	11° $\mathbb{Y}$ 22'24		evening set	14351 Mar 04 15:49	6° $\mathbb{Y}$ 05'54	
direct	14350 Apr 06 04:11	10° $\mathbb{Y}$ 47'20		min. Earth dist.	14351 Mar 08 09:54	3° $\mathbb{Y}$ 02'19	0.62602 AU
morning max el	14350 Apr 12 12:19	14° $\mathbb{Y}$ 03'36	17°52'31	inferior conj	14351 Mar 11 08:13	0° $\mathbb{Y}$ 12'57	-1°11'00
	14350 Apr 23 20:52	0° $\mathbb{B}$		minimum elong	14351 Mar 11 10:37	0° $\mathbb{Y}$ 07'10	1°09'54
morning set	14350 Apr 29 20:01	9° $\mathbb{B}$ 53'52			14351 Mar 11 13:35	30° $\mathbb{R}$ $\mathbb{H}$	
desc. node	14350 Apr 29 22:46	10° $\mathbb{B}$ 05'20		asc. node	14351 Mar 14 23:47	26° $\mathbb{H}$ 58'39	
	14350 May 12 02:04	0° $\mathbb{I}$		morning rise	14351 Mar 18 08:12	25° $\mathbb{H}$ 04'38	
				direct	14351 Mar 20 15:05	24° $\mathbb{H}$ 40'25	
superior conj	14350 May 13 13:14	2° $\mathbb{I}$ 20'46	-1°33'38	morning max el	14351 Mar 27 06:03	28° $\mathbb{H}$ 02'11	17°46'29
minimum elong	14350 May 13 04:31	1° $\mathbb{I}$ 45'55	1°33'34		14351 Mar 29 01:36	0° $\mathbb{Y}$	
max. Earth dist.	14350 May 18 00:35	9° $\mathbb{I}$ 26'03	1.45408 AU	morning set	14351 Apr 12 06:23	22° $\mathbb{Y}$ 35'06	
evening rise	14350 May 29 10:45	27° $\mathbb{I}$ 08'51		desc. node	14351 Apr 16 19:23	0° $\mathbb{B}$ 30'12	
	14350 May 31 07:32	0° $\mathbb{B}$			14351 Apr 16 12:24	0° $\mathbb{B}$	
greatest brilliancy	14350 Jun 13 05:19	19° $\mathbb{B}$ 19'38	-0.6m				
	14350 Jun 21 00:18	0° $\mathbb{Q}$		superior conj	14351 Apr 24 03:42	12° $\mathbb{B}$ 59'06	-0°55'48
asc. node	14350 Jun 23 23:59	3° $\mathbb{Q}$ 30'16		minimum elong	14351 Apr 23 22:16	12° $\mathbb{B}$ 36'29	0°55'39
evening max el	14350 Jun 25 02:45	4° $\mathbb{Q}$ 40'02	19°56'03	max. Earth dist.	14351 Apr 30 17:54	23° $\mathbb{B}$ 44'59	1.44226 AU
retrograde	14350 Jul 02 15:55	8° $\mathbb{Q}$ 56'58			14351 May 04 16:23	0° $\mathbb{I}$	
evening set	14350 Jul 06 12:57	7° $\mathbb{Q}$ 30'04		evening rise	14351 May 08 22:51	6° $\mathbb{I}$ 38'51	
inferior conj	14350 Jul 11 20:13	1° $\mathbb{Q}$ 30'29	3°08'56		14351 May 24 14:50	0° $\mathbb{B}$	
minimum elong	14350 Jul 11 20:51	1° $\mathbb{Q}$ 28'20	3°07'57	evening max el	14351 Jun 08 01:56	18° $\mathbb{B}$ 30'25	21°02'56
	14350 Jul 12 23:02	30° $\mathbb{R}$ $\mathbb{B}$		asc. node	14351 Jun 10 21:00	21° $\mathbb{B}$ 00'42	
min. Earth dist.	14350 Jul 12 20:07	0° $\mathbb{Q}$ 09'48	0.67907 AU	retrograde	14351 Jun 16 14:54	23° $\mathbb{B}$ 27'49	
morning rise	14350 Jul 17 04:24	25° $\mathbb{B}$ 06'53		evening set	14351 Jun 20 22:22	21° $\mathbb{B}$ 44'04	
direct	14350 Jul 22 21:36	22° $\mathbb{B}$ 36'23		inferior conj	14351 Jun 26 04:09	15° $\mathbb{B}$ 33'02	3°10'17
desc. node	14350 Jul 26 22:05	23° $\mathbb{B}$ 37'27		minimum elong	14351 Jun 26 03:47	15° $\mathbb{B}$ 34'17	3°09'15
morning max el	14350 Aug 03 15:23	29° $\mathbb{B}$ 38'27	24°49'11	min. Earth dist.	14351 Jun 26 14:27	14° $\mathbb{B}$ 57'16	0.68692 AU
	14350 Aug 03 23:49	0° $\mathbb{Q}$		morning rise	14351 Jul 01 08:58	9° $\mathbb{B}$ 13'53	
	14350 Aug 26 10:44	0° $\mathbb{M}$		direct	14351 Jul 06 14:03	6° $\mathbb{B}$ 57'26	
morning set	14350 Sep 08 09:41	21° $\mathbb{M}$ 23'55		desc. node	14351 Jul 13 19:24	10° $\mathbb{B}$ 12'58	
max. Earth dist.	14350 Sep 11 23:19	27° $\mathbb{M}$ 48'21	1.37169 AU	morning max el	14351 Jul 17 02:12	13° $\mathbb{B}$ 12'55	23°20'05
	14350 Sep 13 03:55	0° $\mathbb{Q}$			14351 Jul 30 15:14	0° $\mathbb{Q}$	
					14351 Aug 19 07:25	0° $\mathbb{M}$	
superior conj	14350 Sep 18 18:46	10° $\mathbb{Q}$ 42'02	-0°11'47	morning set	14351 Aug 20 18:44	2° $\mathbb{M}$ 26'43	
minimum elong	14350 Sep 18 19:32	10° $\mathbb{Q}$ 45'45	0°11'33	max. Earth dist.	14351 Aug 24 21:23	9° $\mathbb{M}$ 26'23	1.39528 AU
behind sun begin	14350 Sep 18 14:52	10° $\mathbb{Q}$ 23'00					
behind sun end	14350 Sep 19 00:11	11° $\mathbb{Q}$ 08'31		superior conj	14351 Sep 01 14:43	23° $\mathbb{M}$ 16'51	-0°46'47
asc. node	14350 Sep 20 01:30	13° $\mathbb{Q}$ 12'56		minimum elong	14351 Sep 01 18:10	23° $\mathbb{M}$ 32'54	0°46'25
evening rise	14350 Sep 27 03:22	27° $\mathbb{Q}$ 24'53			14351 Sep 05 04:35	0° $\mathbb{Q}$	
	14350 Sep 28 10:20	0° $\mathbb{M}$		asc. node	14351 Sep 06 22:04	3° $\mathbb{Q}$ 18'03	
evening max el	14350 Oct 14 02:26	25° $\mathbb{M}$ 18'16	19°29'09	evening rise	14351 Sep 11 00:19	11° $\mathbb{Q}$ 12'00	
	14350 Oct 22 02:56	0° $\mathbb{A}$			14351 Sep 21 10:32	0° $\mathbb{M}$	
desc. node	14350 Oct 22 18:15	0° $\mathbb{A}$ 05'03		evening max el	14351 Sep 27 01:58	7° $\mathbb{M}$ 16'44	18°39'36
retrograde	14350 Oct 23 18:02	0° $\mathbb{A}$ 07'59		retrograde	14351 Oct 05 06:22	11° $\mathbb{M}$ 24'21	
	14350 Oct 25 09:54	30° $\mathbb{R}$ $\mathbb{M}$		evening set	14351 Oct 07 04:32	11° $\mathbb{M}$ 11'28	
evening set	14350 Oct 25 15:15	29° $\mathbb{M}$ 57'44		desc. node	14351 Oct 09 15:42	10° $\mathbb{M}$ 20'16	
inferior conj	14350 Nov 03 07:28	25° $\mathbb{M}$ 51'33	-3°34'06	inferior conj	14351 Oct 15 05:12	6° $\mathbb{M}$ 46'11	-1°46'24
minimum elong	14350 Nov 02 22:37	26° $\mathbb{M}$ 05'47	3°30'14	minimum elong	14351 Oct 15 00:52	6° $\mathbb{M}$ 54'18	1°44'08
min. Earth dist.	14350 Nov 05 17:29	24° $\mathbb{M}$ 18'25	0.55512 AU	min. Earth dist.	14351 Oct 18 08:36	4° $\mathbb{M}$ 25'52	0.57194 AU
morning rise	14350 Nov 11 03:54	21° $\mathbb{M}$ 26'57		morning rise	14351 Oct 22 17:49	1° $\mathbb{M}$ 44'23	

direct	14351 Oct 28 17:25	0°♍15'57		min. Earth dist.	14352 Sep 29 07:19	15°♊36'14	0.59340 AU
morning max el	14351 Nov 11 23:33	7°♍42'53	26°41'45	morning rise	14352 Oct 03 03:02	12°♊50'57	
	14351 Nov 28 15:25	0°♊		direct	14352 Oct 09 14:13	10°♊55'34	
asc. node	14351 Dec 03 23:33	9°♊31'56		morning max el	14352 Oct 23 21:24	18°♊41'16	27°39'39
morning set	14351 Dec 11 08:40	24°♊28'18			14352 Nov 02 10:41	0°♍	
	14351 Dec 13 21:40	0°♊		asc. node	14352 Nov 19 20:27	29°♍01'20	
					14352 Nov 20 08:21	0°♊	
superior conj	14351 Dec 18 03:52	9°♊28'20	1°36'58	morning set	14352 Nov 24 15:20	8°♊47'48	
minimum elong	14351 Dec 18 03:14	9°♊24'47	1°37'59	max. Earth dist.	14352 Dec 01 00:33	22°♊44'56	1.31140 AU
max. Earth dist.	14351 Dec 18 16:27	10°♊38'30	1.31286 AU				
evening rise	14351 Dec 25 01:07	24°♊33'16		superior conj	14352 Dec 01 15:24	24°♊07'52	1°30'29
	14351 Dec 27 16:01	0°♊		minimum elong	14352 Dec 01 13:51	23°♊59'14	1°31'22
desc. node	14352 Jan 05 13:54	16°♊45'34			14352 Dec 04 06:27	0°♊	
	14352 Jan 14 00:29	0°♊		evening rise	14352 Dec 08 08:30	8°♊58'00	
evening max el	14352 Jan 25 03:51	13°♊17'35	27°13'22		14352 Dec 19 01:14	0°♊	
retrograde	14352 Feb 08 03:39	20°♊34'37		desc. node	14352 Dec 22 10:46	5°♊43'43	
evening set	14352 Feb 14 22:13	18°♊32'58		evening max el	14353 Jan 06 03:04	24°♊44'16	26°17'37
min. Earth dist.	14352 Feb 18 18:22	15°♊48'33	0.60418 AU		14353 Jan 13 05:25	0°♊	
inferior conj	14352 Feb 21 22:36	13°♊07'14	-2°33'03	retrograde	14353 Jan 20 02:07	1°♊49'49	
minimum elong	14352 Feb 22 04:11	12°♊55'23	2°30'29	evening set	14353 Jan 26 10:21	0°♊13'21	
morning rise	14352 Feb 29 13:25	8°♊18'02			14353 Jan 26 20:52	30°♊	
asc. node	14352 Feb 29 21:16	8°♊13'07		min. Earth dist.	14353 Jan 30 16:33	27°♊36'25	0.58248 AU
direct	14352 Mar 02 15:00	8°♊00'57		inferior conj	14353 Feb 02 18:52	25°♊20'02	-3°58'56
morning max el	14352 Mar 09 21:19	11°♊38'58	17°58'51	minimum elong	14353 Feb 03 03:20	25°♊04'27	3°55'32
	14352 Mar 22 02:41	0°♊		morning rise	14353 Feb 10 23:20	20°♊52'06	
morning set	14352 Mar 25 11:01	6°♊06'43		direct	14353 Feb 12 23:45	20°♊38'27	
desc. node	14352 Apr 02 15:57	21°♊01'51		asc. node	14353 Feb 15 18:43	21°♊05'57	
				morning max el	14353 Feb 21 06:16	24°♊42'54	18°31'12
superior conj	14352 Apr 04 18:02	24°♊43'03	-0°16'43		14353 Feb 25 15:24	0°♊	
minimum elong	14352 Apr 04 16:35	24°♊36'41	0°16'49	morning set	14353 Mar 09 04:29	20°♊12'39	
	14352 Apr 07 19:12	0°♊			14353 Mar 14 06:50	0°♊	
max. Earth dist.	14352 Apr 12 06:50	7°♊32'56	1.42480 AU				
evening rise	14352 Apr 17 23:49	16°♊48'03		superior conj	14353 Mar 18 05:22	7°♊24'03	0°18'39
	14352 Apr 26 12:51	0°♊		minimum elong	14353 Mar 18 06:39	7°♊29'59	0°18'24
	14352 May 18 14:26	0°♊		desc. node	14353 Mar 20 12:28	11°♊36'32	
evening max el	14352 May 20 20:00	2°♊21'36	22°19'39	max. Earth dist.	14353 Mar 25 15:37	20°♊41'56	1.40353 AU
asc. node	14352 May 27 18:06	7°♊28'34		evening rise	14353 Mar 29 21:04	27°♊51'51	
retrograde	14352 May 30 12:31	8°♊02'57			14353 Mar 31 04:05	0°♊	
evening set	14352 Jun 04 07:05	6°♊03'26			14353 Apr 20 02:13	0°♊	
	14352 Jun 09 08:53	30°♊		evening max el	14353 May 03 10:53	16°♊14'47	23°40'44
inferior conj	14352 Jun 09 13:47	29°♊42'55	3°00'46	retrograde	14353 May 14 07:19	22°♊37'18	
minimum elong	14352 Jun 09 12:33	29°♊47'13	2°59'35	asc. node	14353 May 14 15:18	22°♊36'49	
min. Earth dist.	14352 Jun 09 11:01	29°♊52'34	0.69001 AU	evening set	14353 May 19 13:31	20°♊23'51	
morning rise	14352 Jun 14 17:50	23°♊30'15		inferior conj	14353 May 24 23:12	13°♊56'32	2°40'56
direct	14352 Jun 19 10:23	21°♊31'57		minimum elong	14353 May 24 21:19	14°♊02'58	2°39'35
morning max el	14352 Jun 28 15:31	26°♊55'02	21°52'22	min. Earth dist.	14353 May 24 07:38	14°♊49'49	0.68831 AU
desc. node	14352 Jun 29 16:38	27°♊59'47		morning rise	14353 May 30 05:06	7°♊51'47	
	14352 Jul 01 12:10	0°♊		direct	14353 Jun 03 09:14	6°♊13'44	
	14352 Jul 23 03:58	0°♊		morning max el	14353 Jun 11 10:31	10°♊48'04	20°33'20
morning set	14352 Jul 31 03:12	12°♊24'53		desc. node	14353 Jun 16 13:45	16°♊39'08	
max. Earth dist.	14352 Aug 05 23:06	21°♊53'45	1.41819 AU		14353 Jun 26 06:59	0°♊	
	14352 Aug 10 18:27	0°♊		morning set	14353 Jul 10 13:44	21°♊27'41	
					14353 Jul 16 00:44	0°♊	
superior conj	14352 Aug 13 16:05	5°♊01'38	-1°22'00	max. Earth dist.	14353 Jul 19 07:59	5°♊15'55	1.43765 AU
minimum elong	14352 Aug 13 22:23	5°♊29'15	1°21'42				
asc. node	14352 Aug 23 18:37	23°♊16'12		superior conj	14353 Jul 25 18:57	15°♊48'35	-1°52'25
evening rise	14352 Aug 24 10:18	24°♊28'23		minimum elong	14353 Jul 26 02:19	16°♊19'12	1°52'34
	14352 Aug 27 10:33	0°♊			14353 Aug 03 03:36	0°♊	
evening max el	14352 Sep 09 10:33	19°♊55'21	18°11'08	evening rise	14353 Aug 07 04:43	7°♊03'08	
retrograde	14352 Sep 16 13:38	23°♊33'19		asc. node	14353 Aug 10 15:13	13°♊03'42	
evening set	14352 Sep 18 18:09	23°♊13'20			14353 Aug 21 07:28	0°♊	
desc. node	14352 Sep 25 13:13	18°♊51'37		evening max el	14353 Aug 23 23:56	3°♊04'01	18°02'15
inferior conj	14352 Sep 26 00:35	18°♊26'54	-0°08'55	retrograde	14353 Aug 30 12:42	6°♊26'46	
minimum elong	14352 Sep 26 00:17	18°♊27'34	0°08'34	evening set	14353 Sep 02 01:11	5°♊56'02	
transit middle	14352 Sep 26 00:17	18°♊27'34	0°08'34	inferior conj	14353 Sep 08 15:07	0°♊49'52	1°08'17
transit begin	14352 Sep 25 21:23	18°♊33'53		minimum elong	14353 Sep 08 16:59	0°♊45'12	1°07'33
transit end	14352 Sep 26 03:11	18°♊21'15			14353 Sep 09 10:53	30°♊	



min. Earth dist.	14353 Sep 11 15:18	27° $\mathbb{M}$ 49'57	0.61634 AU	minimum elong	14354 Aug 22 23:12	13° $\mathbb{M}$ 39'57	2°03'08
desc. node	14353 Sep 12 10:44	27° $\mathbb{M}$ 04'31		min. Earth dist.	14354 Aug 25 09:09	10° $\mathbb{M}$ 57'33	0.63818 AU
morning rise	14353 Sep 15 06:09	24° $\mathbb{M}$ 48'22		morning rise	14354 Aug 29 00:44	7° $\mathbb{M}$ 29'41	
direct	14353 Sep 21 22:08	22° $\mathbb{M}$ 30'19		desc. node	14354 Aug 30 08:16	6° $\mathbb{M}$ 34'23	
	14353 Oct 05 15:04	0° $\mathbb{L}$		direct	14354 Sep 04 15:34	4° $\mathbb{M}$ 56'26	
morning max el	14353 Oct 06 02:19	0° $\mathbb{L}$ 27'38	27°58'49	morning max el	14354 Sep 18 11:53	12° $\mathbb{M}$ 56'38	27°40'23
	14353 Oct 27 13:54	0° $\mathbb{M}$			14354 Oct 02 04:34	0° $\mathbb{L}$	
asc. node	14353 Nov 06 17:15	18° $\mathbb{M}$ 48'02			14354 Oct 20 02:50	0° $\mathbb{M}$	
morning set	14353 Nov 08 16:35	22° $\mathbb{M}$ 48'57		morning set	14354 Oct 23 10:04	6° $\mathbb{M}$ 26'15	
	14353 Nov 12 02:21	0° $\mathbb{X}$		asc. node	14354 Oct 24 13:57	8° $\mathbb{M}$ 46'21	
max. Earth dist.	14353 Nov 14 06:19	4° $\mathbb{X}$ 42'07	1.31528 AU	max. Earth dist.	14354 Oct 28 05:51	16° $\mathbb{M}$ 21'10	1.32456 AU
superior conj	14353 Nov 16 01:27	8° $\mathbb{X}$ 39'35	1°18'09	superior conj	14354 Oct 31 08:04	22° $\mathbb{M}$ 58'16	1°00'01
minimum elong	14353 Nov 15 23:18	8° $\mathbb{X}$ 27'43	1°18'49	minimum elong	14354 Oct 31 05:47	22° $\mathbb{M}$ 45'54	1°00'26
evening rise	14353 Nov 22 18:39	23° $\mathbb{X}$ 28'04			14354 Nov 03 13:31	0° $\mathbb{X}$	
	14353 Nov 25 20:40	0° $\mathbb{Z}$		evening rise	14354 Nov 07 05:42	7° $\mathbb{X}$ 58'43	
desc. node	14353 Dec 09 07:44	23° $\mathbb{Z}$ 55'13			14354 Nov 18 13:46	0° $\mathbb{Z}$	
	14353 Dec 13 20:34	0° $\mathbb{X}$		desc. node	14354 Nov 26 04:50	11° $\mathbb{Z}$ 02'58	
evening max el	14353 Dec 18 17:49	5° $\mathbb{X}$ 19'42	24°52'11	evening max el	14354 Nov 30 03:32	15° $\mathbb{Z}$ 22'07	23°10'52
retrograde	14354 Jan 01 12:09	12° $\mathbb{X}$ 12'40		retrograde	14354 Dec 13 09:37	21° $\mathbb{Z}$ 57'03	
evening set	14354 Jan 07 00:22	11° $\mathbb{X}$ 05'12		evening set	14354 Dec 17 15:40	21° $\mathbb{Z}$ 17'44	
min. Earth dist.	14354 Jan 12 05:42	8° $\mathbb{X}$ 19'52	0.56347 AU	min. Earth dist.	14354 Dec 24 13:18	18° $\mathbb{Z}$ 04'34	0.54997 AU
inferior conj	14354 Jan 14 18:24	6° $\mathbb{X}$ 43'02	-5°14'29	inferior conj	14354 Dec 25 22:21	17° $\mathbb{Z}$ 16'56	-5°56'42
minimum elong	14354 Jan 15 02:48	6° $\mathbb{X}$ 29'36	5°11'51	minimum elong	14354 Dec 26 00:48	17° $\mathbb{Z}$ 13'24	5°55'32
morning rise	14354 Jan 23 07:28	2° $\mathbb{X}$ 36'41		morning rise	14355 Jan 03 11:28	13° $\mathbb{Z}$ 26'40	
direct	14354 Jan 25 13:37	2° $\mathbb{X}$ 22'31		direct	14355 Jan 06 08:30	13° $\mathbb{Z}$ 07'04	
asc. node	14354 Feb 02 16:08	5° $\mathbb{X}$ 40'25		morning max el	14355 Jan 17 13:36	18° $\mathbb{Z}$ 29'25	20°43'02
morning max el	14354 Feb 04 04:49	7° $\mathbb{X}$ 02'32	19°25'33	asc. node	14355 Jan 20 13:29	21° $\mathbb{Z}$ 43'33	
	14354 Feb 18 22:05	0° $\mathbb{X}$			14355 Jan 26 09:10	0° $\mathbb{X}$	
morning set	14354 Feb 21 06:34	4° $\mathbb{X}$ 40'06		morning set	14355 Feb 05 14:14	19° $\mathbb{X}$ 20'13	
					14355 Feb 10 17:19	0° $\mathbb{X}$	
superior conj	14354 Mar 01 09:10	20° $\mathbb{X}$ 49'22	0°47'55	superior conj	14355 Feb 13 01:12	4° $\mathbb{X}$ 47'31	1°10'21
minimum elong	14354 Mar 01 11:41	21° $\mathbb{X}$ 01'37	0°47'48	minimum elong	14355 Feb 13 03:49	5° $\mathbb{X}$ 00'53	1°10'33
	14354 Mar 06 04:44	0° $\mathbb{Y}$		max. Earth dist.	14355 Feb 18 06:18	15° $\mathbb{X}$ 10'15	1.35911 AU
desc. node	14354 Mar 07 08:57	2° $\mathbb{Y}$ 10'19		evening rise	14355 Feb 22 03:31	22° $\mathbb{X}$ 31'00	
max. Earth dist.	14354 Mar 07 22:09	3° $\mathbb{Y}$ 10'45	1.38082 AU	desc. node	14355 Feb 22 05:27	22° $\mathbb{X}$ 39'54	
evening rise	14354 Mar 11 15:08	9° $\mathbb{Y}$ 48'28			14355 Feb 26 07:26	0° $\mathbb{Y}$	
	14354 Mar 23 23:01	0° $\mathbb{Z}$			14355 Mar 17 17:25	0° $\mathbb{Z}$	
	14354 Apr 15 21:06	0° $\mathbb{II}$		evening max el	14355 Mar 29 13:53	13° $\mathbb{Z}$ 58'22	26°09'17
evening max el	14354 Apr 16 00:25	0° $\mathbb{II}$ 08'12	24°59'41	retrograde	14355 Apr 11 08:25	21° $\mathbb{Z}$ 16'34	
retrograde	14354 Apr 27 22:15	7° $\mathbb{II}$ 04'05		evening set	14355 Apr 17 13:00	18° $\mathbb{Z}$ 45'30	
asc. node	14354 May 01 12:35	6° $\mathbb{II}$ 08'43		asc. node	14355 Apr 18 09:57	17° $\mathbb{Z}$ 59'19	
evening set	14354 May 03 16:03	4° $\mathbb{II}$ 39'39		min. Earth dist.	14355 Apr 21 16:38	14° $\mathbb{Z}$ 23'18	0.67114 AU
	14354 May 07 20:41	30° $\mathbb{R}$ $\mathbb{Z}$		inferior conj	14355 Apr 23 09:35	12° $\mathbb{Z}$ 16'30	1°29'33
min. Earth dist.	14354 May 08 02:10	29° $\mathbb{Z}$ 42'08	0.68195 AU	minimum elong	14355 Apr 23 07:40	12° $\mathbb{Z}$ 22'27	1°28'16
inferior conj	14354 May 09 06:28	28° $\mathbb{Z}$ 09'03	2°10'42	morning rise	14355 Apr 29 03:09	6° $\mathbb{Z}$ 31'20	
minimum elong	14354 May 09 04:18	28° $\mathbb{Z}$ 16'10	2°09'16	direct	14355 May 02 08:27	5° $\mathbb{Z}$ 32'31	
morning rise	14354 May 14 16:51	22° $\mathbb{Z}$ 13'29		morning max el	14355 May 08 22:29	9° $\mathbb{Z}$ 03'39	18°37'19
direct	14354 May 18 09:09	20° $\mathbb{Z}$ 55'49		desc. node	14355 May 21 07:34	25° $\mathbb{Z}$ 41'03	
morning max el	14354 May 25 12:57	24° $\mathbb{Z}$ 52'04	19°27'31		14355 May 24 02:43	0° $\mathbb{II}$	
	14354 May 30 00:59	0° $\mathbb{II}$		morning set	14355 May 30 07:28	9° $\mathbb{II}$ 40'59	
desc. node	14354 Jun 03 10:43	5° $\mathbb{II}$ 56'15			14355 Jun 12 07:31	0° $\mathbb{Z}$	
greatest brilliancy	14354 Jun 07 04:08	11° $\mathbb{II}$ 19'02	-0.7m	max. Earth dist.	14355 Jun 14 17:36	3° $\mathbb{Z}$ 46'34	1.45830 AU
morning set	14354 Jun 19 16:09	0° $\mathbb{Z}$ 13'46		superior conj	14355 Jun 15 09:17	4° $\mathbb{Z}$ 47'48	-2°11'21
	14354 Jun 19 12:34	0° $\mathbb{Z}$		minimum elong	14355 Jun 15 05:31	4° $\mathbb{Z}$ 33'03	2°12'19
max. Earth dist.	14354 Jul 01 23:03	19° $\mathbb{Z}$ 19'28	1.45144 AU	evening rise	14355 Jun 30 23:27	29° $\mathbb{Z}$ 21'02	
superior conj	14354 Jul 05 22:22	25° $\mathbb{Z}$ 36'57	-2°11'03		14355 Jul 01 09:15	0° $\mathbb{Q}$	
minimum elong	14354 Jul 06 02:13	25° $\mathbb{Z}$ 52'17	2°11'56	greatest brilliancy	14355 Jul 08 11:52	11° $\mathbb{Q}$ 17'05	-0.9m
	14354 Jul 08 16:06	0° $\mathbb{Q}$		asc. node	14355 Jul 15 08:34	21° $\mathbb{Q}$ 44'42	
evening rise	14354 Jul 20 02:22	18° $\mathbb{Q}$ 43'16			14355 Jul 21 21:07	0° $\mathbb{M}$	
	14354 Jul 26 21:37	0° $\mathbb{M}$		evening max el	14355 Jul 22 03:01	0° $\mathbb{M}$ 14'46	18°39'27
asc. node	14354 Jul 28 11:51	2° $\mathbb{M}$ 35'11		retrograde	14355 Jul 28 16:23	3° $\mathbb{M}$ 48'09	
evening max el	14354 Aug 07 14:26	16° $\mathbb{M}$ 33'04	18°11'58	evening set	14355 Jul 31 22:13	2° $\mathbb{M}$ 48'13	
retrograde	14354 Aug 13 22:59	19° $\mathbb{M}$ 54'31			14355 Aug 04 03:43	30° $\mathbb{R}$ $\mathbb{Q}$	
evening set	14354 Aug 16 19:56	19° $\mathbb{M}$ 10'13		inferior conj	14355 Aug 06 13:37	27° $\mathbb{Q}$ 09'46	2°41'22
inferior conj	14354 Aug 22 20:46	13° $\mathbb{M}$ 46'50	2°04'13				

minimum elong	14355 Aug 06 15:41	27°Ω03'25	2°40'17	retrograde	14356 Jul 11 13:45	18°Ω01'01	
min. Earth dist.	14355 Aug 08 12:06	24°Ω46'57	0.65722 AU	evening set	14356 Jul 15 05:02	16°Ω44'11	
morning rise	14355 Aug 12 08:07	20°Ω45'34		inferior conj	14356 Jul 20 14:25	10°Ω52'11	3°02'44
desc. node	14355 Aug 17 05:46	18°Ω14'14		minimum elong	14356 Jul 20 15:37	10°Ω48'12	3°01'44
direct	14355 Aug 18 17:05	18°Ω06'13		min. Earth dist.	14356 Jul 21 22:32	9°Ω06'42	0.67235 AU
morning max el	14355 Aug 31 23:07	25°Ω56'18	26°50'21	morning rise	14356 Jul 26 01:39	4°Ω27'11	
	14355 Sep 04 16:59	0°♐		direct	14356 Aug 01 01:23	1°Ω50'57	
	14355 Sep 25 17:46	0°♑		desc. node	14356 Aug 03 03:13	2°Ω07'14	
morning set	14355 Oct 06 16:48	19°♑32'09		morning max el	14356 Aug 13 10:04	9°Ω14'56	25°37'35
max. Earth dist.	14355 Oct 10 19:56	27°♑37'40	1.33926 AU		14356 Aug 29 18:57	0°♐	
asc. node	14355 Oct 11 10:33	28°♑51'13			14356 Sep 17 06:59	0°♑	
	14355 Oct 12 00:07	0°♒		morning set	14356 Sep 18 09:13	1°♑58'29	
				max. Earth dist.	14356 Sep 22 00:15	8°♑42'06	1.35881 AU
				asc. node	14356 Sep 27 07:07	18°♑59'11	
superior conj	14355 Oct 15 08:57	6°♒57'25	0°36'12				
minimum elong	14355 Oct 15 07:11	6°♒48'08	0°36'25	superior conj	14356 Sep 28 01:26	20°♑30'52	0°07'06
evening rise	14355 Oct 22 15:46	22°♒24'28		minimum elong	14356 Sep 28 01:00	20°♑28'40	0°07'16
	14355 Oct 26 07:51	0°♓		behind sun begin	14356 Sep 27 19:24	20°♑00'33	
evening max el	14355 Nov 11 17:17	25°♓27'08	21°31'29	behind sun end	14356 Sep 28 06:36	20°♑56'51	
desc. node	14355 Nov 13 02:02	26°♓43'28			14356 Oct 02 17:03	0°♒	
	14355 Nov 17 20:16	0°♓		evening rise	14356 Oct 05 22:50	6°♒40'38	
retrograde	14355 Nov 23 21:29	1°♓29'16			14356 Oct 18 18:31	0°♓	
evening set	14355 Nov 26 19:21	1°♓09'55		evening max el	14356 Oct 23 19:29	6°♓08'53	20°07'44
	14355 Nov 30 08:24	30°♓♓		desc. node	14356 Oct 29 23:21	10°♓30'45	
inferior conj	14355 Dec 05 14:29	27°♓17'27	-5°43'03	retrograde	14356 Nov 03 09:39	11°♓25'10	
minimum elong	14355 Dec 05 07:58	27°♓26'37	5°41'09	evening set	14356 Nov 05 11:31	11°♓13'56	
min. Earth dist.	14355 Dec 05 19:13	27°♓10'49	0.54464 AU	inferior conj	14356 Nov 14 08:48	7°♓16'26	-4°31'54
morning rise	14355 Dec 13 21:16	23°♓28'47		minimum elong	14356 Nov 13 22:42	7°♓31'31	4°28'06
direct	14355 Dec 17 16:35	22°♓57'21		min. Earth dist.	14356 Nov 16 02:26	6°♓14'12	0.54880 AU
morning max el	14355 Dec 30 08:13	29°♓03'01	22°21'16	morning rise	14356 Nov 22 08:55	3°♓10'00	
	14355 Dec 31 07:26	0°♓		direct	14356 Nov 27 03:38	2°♓20'22	
asc. node	14356 Jan 07 10:44	8°♓56'35		morning max el	14356 Dec 10 18:13	9°♓02'53	24°10'22
	14356 Jan 19 02:11	0°♐		asc. node	14356 Dec 24 07:54	27°♓03'21	
morning set	14356 Jan 21 01:00	4°♐05'04			14356 Dec 26 00:45	0°♓	
				morning set	14357 Jan 04 12:57	18°♓49'15	
superior conj	14356 Jan 28 01:54	19°♐07'24	1°25'59		14357 Jan 09 16:02	0°♐	
minimum elong	14356 Jan 28 03:55	19°♐18'05	1°26'34	superior conj	14357 Jan 11 08:26	3°♐40'59	1°35'06
max. Earth dist.	14356 Jan 31 20:25	26°♐59'48	1.34038 AU	minimum elong	14357 Jan 11 09:29	3°♐46'43	1°35'59
	14356 Feb 02 07:54	0°♐		max. Earth dist.	14357 Jan 13 18:31	8°♐55'28	1.32589 AU
evening rise	14356 Feb 05 06:38	5°♐49'26		evening rise	14357 Jan 18 21:08	19°♐35'18	
desc. node	14356 Feb 09 02:00	13°♐00'33			14357 Jan 24 05:47	0°♐	
	14356 Feb 19 00:34	0°♑		desc. node	14357 Jan 25 22:37	3°♐07'31	
evening max el	14356 Mar 11 03:32	27°♑37'58	27°02'14		14357 Feb 12 03:17	0°♑	
	14356 Mar 13 18:12	0°♒		evening max el	14357 Feb 21 16:17	10°♑56'19	27°31'10
retrograde	14356 Mar 24 12:56	5°♒06'18		retrograde	14357 Mar 07 10:33	18°♑24'21	
evening set	14356 Mar 31 02:26	2°♒34'23		evening set	14357 Mar 14 06:04	15°♑58'21	
	14356 Apr 02 21:26	30°♒♑		min. Earth dist.	14357 Mar 18 01:14	12°♑39'29	0.63783 AU
min. Earth dist.	14356 Apr 04 00:59	28°♑45'28	0.65622 AU	inferior conj	14357 Mar 20 17:51	9°♑52'55	-0°28'14
asc. node	14356 Apr 04 07:24	28°♑27'32		minimum elong	14357 Mar 20 18:44	9°♑50'37	0°27'56
inferior conj	14356 Apr 06 06:17	26°♑13'19	0°36'45	asc. node	14357 Mar 22 04:53	8°♑24'04	
minimum elong	14356 Apr 06 05:19	26°♑16'06	0°36'01	morning rise	14357 Mar 27 09:42	4°♑34'28	
morning rise	14356 Apr 12 09:43	20°♑40'19		direct	14357 Mar 29 20:43	4°♑04'27	
direct	14356 Apr 15 05:11	19°♑57'35		morning max el	14357 Apr 05 06:48	7°♑21'59	17°47'43
morning max el	14356 Apr 21 13:18	23°♑16'14	18°03'54		14357 Apr 20 11:12	0°♒	
	14356 Apr 27 01:27	0°♒		morning set	14357 Apr 21 22:27	2°♒29'57	
desc. node	14356 May 07 04:19	15°♒45'48		desc. node	14357 Apr 24 00:58	6°♒04'34	
morning set	14356 May 10 01:21	20°♒26'17					
	14356 May 15 23:12	0°♓					
				superior conj	14357 May 04 20:39	24°♒03'41	-1°18'10
superior conj	14356 May 24 19:20	14°♓03'06	-1°51'51	minimum elong	14357 May 04 13:01	23°♒32'40	1°17'59
minimum elong	14356 May 24 10:34	13°♓28'36	1°52'07		14357 May 08 13:13	0°♓	
max. Earth dist.	14356 May 27 13:30	18°♓22'30	1.45769 AU	max. Earth dist.	14357 May 10 08:40	2°♓52'43	1.44982 AU
	14356 Jun 04 00:52	0°♓		evening rise	14357 May 20 09:06	18°♓28'05	
evening rise	14356 Jun 09 21:56	9°♓05'10			14357 May 27 23:53	0°♓	
greatest brilliancy	14356 Jun 22 15:56	28°♓31'52	-0.7m	evening max el	14357 Jun 17 14:05	27°♓53'43	20°23'10
	14356 Jun 23 15:47	0°♓		asc. node	14357 Jun 18 02:20	28°♓23'46	
asc. node	14356 Jul 01 05:23	10°♓24'29			14357 Jun 19 21:59	0°♓	
evening max el	14356 Jul 04 11:23	14°♓03'21	19°23'46				

retrograde	14357 Jun 25 12:37	2°♎26'36		asc. node	14358 Jun 04 23:24	15°♊29'40	
evening set	14357 Jun 29 14:03	0°♎52'27		retrograde	14358 Jun 09 11:08	16°♊59'59	
	14357 Jun 30 14:13	30°♎		evening set	14358 Jun 13 23:22	15°♊09'06	
inferior conj	14357 Jul 04 20:23	24°♊48'05	3°10'53	inferior conj	14358 Jun 19 05:16	8°♊53'48	3°07'31
minimum elong	14357 Jul 04 20:36	24°♊47'22	3°09'53	minimum elong	14358 Jun 19 04:31	8°♊56'25	3°06'26
min. Earth dist.	14357 Jul 05 14:28	23°♊46'10	0.68298 AU	min. Earth dist.	14358 Jun 19 09:54	8°♊37'40	0.68885 AU
morning rise	14357 Jul 10 02:50	18°♊26'16		morning rise	14358 Jun 24 09:29	2°♊37'28	
direct	14357 Jul 15 15:07	16°♊00'55		direct	14358 Jun 29 09:15	0°♊28'30	
desc. node	14357 Jul 21 00:36	17°♊50'43		desc. node	14358 Jul 07 21:53	4°♊59'02	
morning max el	14357 Jul 26 20:26	22°♊43'52	24°11'43	morning max el	14358 Jul 09 07:59	6°♊21'15	22°42'12
	14357 Aug 02 05:43	0°♎			14358 Jul 27 15:04	0°♎	
	14357 Aug 23 02:37	0°♎		morning set	14358 Aug 12 05:39	24°♎08'55	
morning set	14357 Aug 31 06:55	13°♎33'57			14358 Aug 15 18:17	0°♎	
max. Earth dist.	14357 Sep 03 22:54	19°♎59'52	1.38166 AU	max. Earth dist.	14358 Aug 16 22:24	1°♎58'52	1.40532 AU
	14357 Sep 09 09:49	0°♎					
superior conj	14357 Sep 11 06:00	3°♎29'27	-0°26'20	superior conj	14358 Aug 24 18:33	15°♎43'34	-1°01'56
minimum elong	14357 Sep 11 07:50	3°♎38'10	0°26'03	minimum elong	14358 Aug 24 23:17	16°♎04'58	1°01'33
asc. node	14357 Sep 14 03:40	9°♎06'02		asc. node	14358 Sep 01 00:13	29°♎08'19	
evening rise	14357 Sep 20 00:18	20°♎40'13			14358 Sep 01 11:09	0°♎	
	14357 Sep 24 19:37	0°♎		evening rise	14358 Sep 03 17:04	4°♎15'13	
evening max el	14357 Oct 06 11:53	17°♎39'19	19°05'24	evening max el	14358 Sep 19 15:41	29°♎55'07	18°24'57
retrograde	14357 Oct 15 11:13	22°♎09'34			14358 Sep 19 17:39	0°♎	
desc. node	14357 Oct 16 20:47	22°♎03'24		retrograde	14358 Sep 27 08:03	3°♎48'48	
evening set	14357 Oct 17 08:02	21°♎58'40		evening set	14358 Sep 29 08:31	3°♎33'22	
inferior conj	14357 Oct 25 18:22	17°♎44'43	-2°48'23	desc. node	14358 Oct 03 18:16	1°♎26'55	
minimum elong	14357 Oct 25 11:16	17°♎56'50	2°44'59		14358 Oct 05 18:15	30°♎	
min. Earth dist.	14357 Oct 28 13:33	15°♎50'17	0.56159 AU	inferior conj	14358 Oct 07 01:23	28°♎58'39	-1°02'56
morning rise	14357 Nov 02 11:49	13°♎05'03		minimum elong	14358 Oct 06 22:57	29°♎03'30	1°01'32
direct	14357 Nov 08 02:17	11°♎52'07		min. Earth dist.	14358 Oct 10 07:30	26°♎23'13	0.58067 AU
morning max el	14357 Nov 22 04:50	19°♎03'48	25°53'04	morning rise	14358 Oct 14 09:54	23°♎41'25	
	14357 Dec 01 10:02	0°♎		direct	14358 Oct 20 14:59	22°♎01'41	
asc. node	14357 Dec 11 04:58	15°♎50'13		morning max el	14358 Nov 03 22:21	29°♎37'04	27°11'02
	14357 Dec 18 09:12	0°♎			14358 Nov 04 07:43	0°♎	
morning set	14357 Dec 20 00:17	3°♎27'55			14358 Nov 25 08:31	0°♎	
				asc. node	14358 Nov 28 01:54	5°♎06'31	
superior conj	14357 Dec 26 18:28	18°♎21'37	1°38'00	morning set	14358 Dec 04 09:11	17°♎55'58	
minimum elong	14357 Dec 26 18:26	18°♎21'26	1°39'02		14358 Dec 09 21:14	0°♎	
max. Earth dist.	14357 Dec 27 23:07	21°♎00'27	1.31618 AU	superior conj	14358 Dec 11 05:58	3°♎03'01	1°34'55
	14358 Jan 01 02:11	0°♎		minimum elong	14358 Dec 11 04:55	2°♎57'09	1°35'55
evening rise	14358 Jan 02 20:04	3°♎41'11		max. Earth dist.	14358 Dec 11 07:04	3°♎09'08	1.31160 AU
desc. node	14358 Jan 12 19:20	22°♎54'52		evening rise	14358 Dec 18 00:58	18°♎00'23	
	14358 Jan 16 23:48	0°♎			14358 Dec 23 21:59	0°♎	
evening max el	14358 Feb 04 01:51	23°♎40'16	27°29'41	desc. node	14358 Dec 30 16:09	12°♎14'03	
	14358 Feb 13 02:55	0°♎			14359 Jan 11 23:55	0°♎	
retrograde	14358 Feb 18 00:17	1°♎01'45		evening max el	14359 Jan 17 05:20	5°♎36'32	26°53'42
	14358 Feb 22 16:41	30°♎		retrograde	14359 Jan 31 04:49	12°♎48'48	
evening set	14358 Feb 24 21:12	28°♎49'00		evening set	14359 Feb 06 20:20	10°♎56'48	
min. Earth dist.	14358 Feb 28 15:37	25°♎54'42	0.61689 AU	min. Earth dist.	14359 Feb 10 19:22	8°♎17'38	0.59484 AU
inferior conj	14358 Mar 03 17:04	23°♎07'04	-1°44'47	inferior conj	14359 Feb 14 00:10	5°♎44'47	-3°09'36
minimum elong	14358 Mar 03 20:45	22°♎58'37	1°43'03	minimum elong	14359 Feb 14 07:08	5°♎30'52	3°06'32
asc. node	14358 Mar 09 02:24	18°♎55'10		morning rise	14359 Feb 21 21:11	1°♎04'42	
morning rise	14358 Mar 10 23:17	18°♎06'20		direct	14359 Feb 23 21:43	0°♎49'29	
direct	14358 Mar 13 03:42	17°♎45'27		asc. node	14359 Feb 23 23:52	0°♎49'31	
morning max el	14358 Mar 19 23:56	21°♎12'39	17°49'24	morning max el	14359 Mar 03 13:03	4°♎37'04	18°10'05
	14358 Mar 26 16:18	0°♎		morning set	14359 Mar 19 04:05	29°♎23'22	
morning set	14358 Apr 04 17:25	15°♎35'30			14359 Mar 19 11:54	0°♎	
desc. node	14358 Apr 10 21:33	26°♎32'57					
	14358 Apr 12 21:03	0°♎		superior conj	14359 Mar 28 21:16	17°♎20'35	-0°01'06
superior conj	14358 Apr 15 21:26	5°♎10'35	-0°38'59	minimum elong	14359 Mar 28 21:10	17°♎20'09	0°01'17
minimum elong	14358 Apr 15 17:46	4°♎55'02	0°38'56	behind sun begin	14359 Mar 28 13:35	16°♎46'07	
max. Earth dist.	14358 Apr 23 00:52	17°♎02'23	1.43546 AU	behind sun end	14359 Mar 29 04:45	17°♎54'06	
evening rise	14358 Apr 30 01:22	28°♎12'04		desc. node	14359 Mar 28 18:03	17°♎06'10	
	14358 May 01 05:09	0°♎			14359 Apr 05 03:47	0°♎	
	14358 May 21 17:46	0°♎		max. Earth dist.	14359 Apr 05 12:10	0°♎35'20	1.41609 AU
evening max el	14358 May 31 10:59	11°♎44'24	21°34'39	evening rise	14359 Apr 10 10:30	8°♎43'21	
					14359 Apr 24 06:55	0°♎	

evening max el	14359 May 14 03:15	25° $\Pi$ 35'21	22°53'52	evening max el	14360 Apr 25 17:12	9° $\Pi$ 28'10	24°14'57
	14359 May 19 11:44	0° $\mathfrak{C}$		retrograde	14360 May 07 01:13	16° $\Pi$ 06'49	
asc. node	14359 May 22 20:34	1° $\mathfrak{C}$ 25'36		asc. node	14360 May 08 17:48	15° $\Pi$ 54'15	
retrograde	14359 May 24 07:47	1° $\mathfrak{C}$ 35'16		evening set	14360 May 12 12:16	13° $\Pi$ 48'19	
	14359 May 28 16:00	30° $\mathfrak{R}$ $\Pi$		min. Earth dist.	14360 May 17 02:47	8° $\Pi$ 29'40	0.68615 AU
evening set	14359 May 29 07:18	29° $\Pi$ 29'17		inferior conj	14360 May 17 23:45	7° $\Pi$ 18'49	2°29'24
inferior conj	14359 Jun 03 15:01	23° $\Pi$ 05'15	2°53'37	minimum elong	14360 May 17 21:43	7° $\Pi$ 25'44	2°28'00
minimum elong	14359 Jun 03 13:29	23° $\Pi$ 10'36	2°52'21	morning rise	14360 May 23 07:14	1° $\Pi$ 17'38	
min. Earth dist.	14359 Jun 03 06:42	23° $\Pi$ 34'09	0.68988 AU		14360 May 25 19:36	30° $\mathfrak{R}$ $\mathfrak{C}$	
morning rise	14359 Jun 08 19:33	16° $\Pi$ 55'53		direct	14360 May 27 06:09	29° $\mathfrak{C}$ 48'27	
direct	14359 Jun 13 06:40	15° $\Pi$ 06'20			14360 May 28 17:43	0° $\Pi$	
morning max el	14359 Jun 21 23:32	20° $\Pi$ 07'57	21°17'22	morning max el	14360 Jun 03 21:34	4° $\Pi$ 05'32	20°03'24
desc. node	14359 Jun 24 19:03	23° $\Pi$ 09'51		desc. node	14360 Jun 10 16:05	12° $\Pi$ 06'30	
	14359 Jun 30 06:29	0° $\mathfrak{C}$			14360 Jun 23 03:13	0° $\mathfrak{C}$	
	14359 Jul 20 19:19	0° $\Omega$		morning set	14360 Jul 01 08:28	12° $\mathfrak{C}$ 29'06	
morning set	14359 Jul 23 03:54	3° $\Omega$ 40'53		max. Earth dist.	14360 Jul 11 14:01	28° $\mathfrak{C}$ 28'26	1.44425 AU
max. Earth dist.	14359 Jul 30 02:59	14° $\Omega$ 49'41	1.42697 AU		14360 Jul 12 13:00	0° $\Omega$	
superior conj	14359 Aug 06 10:39	27° $\Omega$ 03'39	-1°35'54	superior conj	14360 Jul 17 03:15	7° $\Omega$ 24'18	-2°02'13
minimum elong	14359 Aug 06 17:47	27° $\Omega$ 34'14	1°35'43	minimum elong	14360 Jul 17 09:48	7° $\Omega$ 51'00	2°02'42
	14359 Aug 08 03:39	0° $\mathfrak{H}$		evening rise	14360 Jul 30 07:11	29° $\Omega$ 27'32	
evening rise	14359 Aug 17 21:01	17° $\mathfrak{H}$ 15'15			14360 Jul 30 14:46	0° $\mathfrak{H}$	
asc. node	14359 Aug 18 20:47	19° $\mathfrak{H}$ 02'21		asc. node	14360 Aug 04 17:24	8° $\mathfrak{H}$ 43'24	
	14359 Aug 25 01:37	0° $\mathfrak{A}$		evening max el	14360 Aug 16 16:59	26° $\mathfrak{H}$ 05'23	18°04'15
evening max el	14359 Sep 03 02:43	12° $\mathfrak{A}$ 47'18	18°05'04	retrograde	14360 Aug 23 02:51	29° $\mathfrak{H}$ 25'51	
retrograde	14359 Sep 09 22:39	16° $\mathfrak{A}$ 17'26		evening set	14360 Aug 25 18:51	28° $\mathfrak{H}$ 49'44	
evening set	14359 Sep 12 06:18	15° $\mathfrak{A}$ 53'26		inferior conj	14360 Sep 01 02:47	23° $\mathfrak{H}$ 36'18	1°34'31
inferior conj	14359 Sep 19 05:22	10° $\mathfrak{A}$ 58'27	0°26'29	minimum elong	14360 Sep 01 05:03	23° $\mathfrak{H}$ 30'19	1°33'33
minimum elong	14359 Sep 19 06:13	10° $\mathfrak{A}$ 56'29	0°26'15	min. Earth dist.	14360 Sep 03 22:32	20° $\mathfrak{H}$ 38'21	0.62584 AU
desc. node	14359 Sep 20 15:47	9° $\mathfrak{A}$ 37'59		desc. node	14360 Sep 06 13:19	18° $\mathfrak{H}$ 12'55	
min. Earth dist.	14359 Sep 22 10:16	8° $\mathfrak{A}$ 00'58	0.60302 AU	morning rise	14360 Sep 07 12:58	17° $\mathfrak{H}$ 27'01	
morning rise	14359 Sep 26 02:57	5° $\mathfrak{A}$ 10'02		direct	14360 Sep 14 05:17	15° $\mathfrak{H}$ 01'01	
direct	14359 Oct 02 16:49	3° $\mathfrak{A}$ 04'11		morning max el	14360 Sep 28 06:43	23° $\mathfrak{H}$ 01'30	27°55'18
morning max el	14359 Oct 16 23:40	10° $\mathfrak{A}$ 56'48	27°52'45		14360 Oct 04 11:43	0° $\mathfrak{A}$	
	14359 Oct 31 21:18	0° $\mathfrak{M}$			14360 Oct 24 03:49	0° $\mathfrak{M}$	
asc. node	14359 Nov 14 22:43	24° $\mathfrak{M}$ 44'08		asc. node	14360 Oct 31 19:27	14° $\mathfrak{M}$ 35'56	
	14359 Nov 17 13:05	0° $\mathfrak{X}$		morning set	14360 Nov 01 12:03	16° $\mathfrak{M}$ 00'06	
morning set	14359 Nov 18 13:51	2° $\mathfrak{X}$ 08'49		max. Earth dist.	14360 Nov 06 17:52	27° $\mathfrak{M}$ 01'27	1.31848 AU
max. Earth dist.	14359 Nov 24 14:36	15° $\mathfrak{X}$ 12'53	1.31231 AU		14360 Nov 08 02:45	0° $\mathfrak{X}$	
superior conj	14359 Nov 25 17:06	17° $\mathfrak{X}$ 40'13	1°25'58	superior conj	14360 Nov 09 01:56	2° $\mathfrak{X}$ 06'49	1°11'11
minimum elong	14359 Nov 25 15:15	17° $\mathfrak{X}$ 29'57	1°26'47	minimum elong	14360 Nov 08 23:39	1° $\mathfrak{X}$ 54'21	1°11'44
	14359 Dec 01 06:28	0° $\mathfrak{Z}$		evening rise	14360 Nov 15 20:26	16° $\mathfrak{X}$ 58'23	
evening rise	14359 Dec 02 09:44	2° $\mathfrak{Z}$ 28'02			14360 Nov 22 04:12	0° $\mathfrak{Z}$	
	14359 Dec 16 23:09	0° $\mathfrak{A}$		desc. node	14360 Dec 03 10:06	18° $\mathfrak{Z}$ 41'14	
desc. node	14359 Dec 17 13:04	0° $\mathfrak{A}$ 54'36		evening max el	14360 Dec 10 12:35	26° $\mathfrak{Z}$ 58'13	24°10'07
evening max el	14359 Dec 30 00:41	16° $\mathfrak{A}$ 40'09	25°44'16		14360 Dec 14 02:38	0° $\mathfrak{A}$	
retrograde	14360 Jan 12 22:36	23° $\mathfrak{A}$ 41'31		retrograde	14360 Dec 24 03:25	3° $\mathfrak{A}$ 44'40	
evening set	14360 Jan 18 23:35	22° $\mathfrak{A}$ 16'54		evening set	14360 Dec 29 03:31	2° $\mathfrak{A}$ 50'01	
min. Earth dist.	14360 Jan 23 13:28	19° $\mathfrak{A}$ 38'33	0.57391 AU		14361 Jan 03 20:46	30° $\mathfrak{R}$ $\mathfrak{Z}$	
inferior conj	14360 Jan 26 11:47	17° $\mathfrak{A}$ 37'04	-4°33'24	min. Earth dist.	14361 Jan 04 00:07	29° $\mathfrak{Z}$ 54'59	0.55686 AU
minimum elong	14360 Jan 26 20:48	17° $\mathfrak{A}$ 21'28	4°30'07	inferior conj	14361 Jan 06 02:31	28° $\mathfrak{Z}$ 38'23	-5°38'02
morning rise	14360 Feb 03 20:52	13° $\mathfrak{A}$ 18'49		minimum elong	14361 Jan 06 09:10	28° $\mathfrak{Z}$ 28'17	5°36'06
direct	14360 Feb 05 22:29	13° $\mathfrak{A}$ 05'36		morning rise	14361 Jan 14 16:40	24° $\mathfrak{Z}$ 39'36	
asc. node	14360 Feb 10 21:17	14° $\mathfrak{A}$ 26'28		direct	14361 Jan 17 03:50	24° $\mathfrak{Z}$ 23'51	
morning max el	14360 Feb 14 18:11	17° $\mathfrak{A}$ 24'08	18°51'29	morning max el	14361 Jan 27 11:10	29° $\mathfrak{Z}$ 21'59	19°55'36
	14360 Feb 23 19:01	0° $\mathfrak{H}$		asc. node	14361 Jan 27 18:38	29° $\mathfrak{Z}$ 40'17	
morning set	14360 Mar 02 01:37	13° $\mathfrak{H}$ 39'26			14361 Jan 28 02:27	0° $\mathfrak{A}$	
	14360 Mar 10 11:31	0° $\mathfrak{Y}$		morning set	14361 Feb 14 06:25	28° $\mathfrak{A}$ 13'06	
					14361 Feb 15 03:26	0° $\mathfrak{H}$	
superior conj	14360 Mar 10 16:11	0° $\mathfrak{Y}$ 22'06	0°31'51				
minimum elong	14360 Mar 10 18:09	0° $\mathfrak{Y}$ 31'26	0°31'38	superior conj	14361 Feb 22 01:39	14° $\mathfrak{H}$ 02'31	0°58'16
desc. node	14360 Mar 14 14:34	7° $\mathfrak{Y}$ 40'53		minimum elong	14361 Feb 22 04:19	14° $\mathfrak{H}$ 15'48	0°58'16
max. Earth dist.	14360 Mar 17 19:03	13° $\mathfrak{Y}$ 24'15	1.39392 AU	max. Earth dist.	14361 Feb 28 01:29	25° $\mathfrak{H}$ 37'36	1.37138 AU
evening rise	14360 Mar 21 16:47	20° $\mathfrak{Y}$ 10'13		desc. node	14361 Mar 01 11:03	28° $\mathfrak{H}$ 13'25	
	14360 Mar 27 15:51	0° $\mathfrak{C}$			14361 Mar 02 10:21	0° $\mathfrak{Y}$	
	14360 Apr 17 10:28	0° $\Pi$		evening rise	14361 Mar 03 19:06	2° $\mathfrak{Y}$ 27'53	

	14361 Mar 20 18:13	0°♄		evening rise	14362 Feb 14 14:11	15°♄26'47	
evening max el	14361 Apr 08 06:48	23°♄21'46	25°30'56	desc. node	14362 Feb 16 07:34	18°♄39'43	
	14361 Apr 17 18:34	0°♄			14362 Feb 22 17:42	0°♄	
retrograde	14361 Apr 20 14:16	0°♄28'27			14362 Mar 15 07:59	0°♄	
	14361 Apr 23 06:04	30°♄		evening max el	14362 Mar 21 20:37	7°♄09'30	26°34'20
asc. node	14361 Apr 25 15:07	28°♄42'58		retrograde	14362 Apr 03 21:57	14°♄32'30	
evening set	14361 Apr 26 12:40	28°♄00'55		evening set	14362 Apr 10 06:41	12°♄00'29	
min. Earth dist.	14361 Apr 30 19:58	23°♄18'20	0.67787 AU	asc. node	14362 Apr 12 12:32	9°♄54'37	
inferior conj	14361 May 02 05:34	21°♄30'19	1°54'38	min. Earth dist.	14362 Apr 14 08:05	7°♄52'46	0.66531 AU
minimum elong	14361 May 02 03:26	21°♄37'11	1°53'14	inferior conj	14362 Apr 16 06:17	5°♄34'18	1°08'38
morning rise	14361 May 07 18:39	15°♄38'42		minimum elong	14362 Apr 16 04:40	5°♄39'10	1°07'32
direct	14361 May 11 06:10	14°♄29'12			14362 Apr 21 23:33	30°♄	
morning max el	14361 May 18 03:05	18°♄13'15	19°04'04	morning rise	14362 Apr 22 03:43	29°♄53'59	
	14361 May 27 10:24	0°♄		direct	14362 Apr 25 04:48	29°♄02'12	
desc. node	14361 May 28 13:00	1°♄36'42			14362 Apr 28 12:07	0°♄	
greatest brilliancy	14361 May 31 05:00	5°♄34'05	-0.7m	morning max el	14362 May 01 15:09	2°♄26'12	18°21'01
morning set	14361 Jun 10 13:59	21°♄26'17		desc. node	14362 May 15 09:47	21°♄30'50	
	14361 Jun 16 02:42	0°♄			14362 May 20 18:24	0°♄	
max. Earth dist.	14361 Jun 24 06:55	12°♄44'29	1.45529 AU	morning set	14362 May 21 15:53	1°♄25'19	
superior conj	14361 Jun 26 22:21	16°♄53'36	-2°13'41	superior conj	14362 Jun 06 06:39	26°♄00'19	-2°05'19
minimum elong	14361 Jun 26 23:09	16°♄56'47	2°14'43	minimum elong	14362 Jun 06 00:01	25°♄34'26	2°06'00
	14361 Jul 05 04:10	0°♄		max. Earth dist.	14362 Jun 07 02:59	27°♄19'39	1.45903 AU
evening rise	14361 Jul 11 18:39	10°♄41'32			14362 Jun 08 20:05	0°♄	
asc. node	14361 Jul 22 14:06	28°♄06'37		evening rise	14362 Jun 22 05:24	20°♄54'27	
	14361 Jul 23 19:49	0°♄			14362 Jun 28 00:54	0°♄	
evening max el	14361 Jul 31 07:07	9°♄41'19	18°21'34	greatest brilliancy	14362 Jul 02 03:50	6°♄23'04	-0.8m
retrograde	14361 Aug 06 16:29	13°♄05'50		asc. node	14362 Jul 09 10:53	17°♄04'39	
evening set	14361 Aug 09 17:15	12°♄14'57		evening max el	14362 Jul 14 18:11	23°♄26'45	18°56'17
inferior conj	14361 Aug 15 13:39	6°♄45'05	2°22'03	retrograde	14362 Jul 21 11:59	27°♄08'48	
minimum elong	14361 Aug 15 16:01	6°♄38'08	2°20'58	evening set	14362 Jul 24 21:51	26°♄01'35	
min. Earth dist.	14361 Aug 17 20:16	4°♄05'31	0.64678 AU	inferior conj	14362 Jul 30 10:17	20°♄16'59	2°52'08
morning rise	14361 Aug 21 13:23	0°♄24'19		minimum elong	14362 Jul 30 12:01	20°♄11'28	2°51'07
	14361 Aug 22 01:55	30°♄		min. Earth dist.	14362 Aug 01 02:31	18°♄09'23	0.66424 AU
desc. node	14361 Aug 24 10:50	28°♄35'04		morning rise	14362 Aug 05 01:26	13°♄52'00	
direct	14361 Aug 28 02:23	27°♄47'16		direct	14362 Aug 11 06:45	11°♄13'14	
	14361 Sep 03 18:40	0°♄		desc. node	14362 Aug 11 08:19	11°♄13'15	
morning max el	14361 Sep 10 17:05	5°♄44'11	27°22'25	morning max el	14362 Aug 24 04:26	18°♄53'25	26°21'37
	14361 Sep 29 06:12	0°♄			14362 Sep 02 14:35	0°♄	
morning set	14361 Oct 16 01:18	29°♄24'14			14362 Sep 22 06:53	0°♄	
	14361 Oct 16 08:35	0°♄		morning set	14362 Sep 29 02:25	12°♄14'18	
asc. node	14361 Oct 18 16:07	4°♄37'15		max. Earth dist.	14362 Oct 02 23:36	19°♄40'25	1.34710 AU
max. Earth dist.	14361 Oct 20 13:32	8°♄29'46	1.33020 AU	asc. node	14362 Oct 05 12:44	24°♄44'01	
superior conj	14361 Oct 24 06:24	16°♄17'40	0°50'37	superior conj	14362 Oct 08 04:06	0°♄06'46	0°24'27
minimum elong	14361 Oct 24 04:15	16°♄06'08	0°50'55	minimum elong	14362 Oct 08 02:47	29°♄59'59	0°24'38
	14361 Oct 30 14:59	0°♄			14362 Oct 08 02:47	0°♄	
evening rise	14361 Oct 31 07:18	1°♄27'15		evening rise	14362 Oct 15 16:24	15°♄49'58	
	14361 Nov 16 01:11	0°♄			14362 Oct 22 19:14	0°♄	
desc. node	14361 Nov 20 07:15	5°♄14'33		evening max el	14362 Nov 03 17:09	17°♄14'02	20°53'22
evening max el	14361 Nov 21 22:52	6°♄56'49	22°27'23	desc. node	14362 Nov 07 04:31	20°♄10'18	
retrograde	14361 Dec 04 19:23	13°♄19'00		retrograde	14362 Nov 15 05:55	22°♄57'57	
evening set	14361 Dec 08 11:20	12°♄49'35		evening set	14362 Nov 17 17:27	22°♄43'11	
inferior conj	14361 Dec 16 23:58	8°♄54'26	-5°58'30	inferior conj	14362 Nov 26 15:08	18°♄49'50	-5°18'51
minimum elong	14361 Dec 16 22:27	8°♄56'33	5°57'24	minimum elong	14362 Nov 26 06:07	19°♄02'42	5°16'01
min. Earth dist.	14361 Dec 16 06:24	9°♄19'08	0.54661 AU	min. Earth dist.	14362 Nov 27 12:12	18°♄19'49	0.54522 AU
morning rise	14361 Dec 25 10:45	5°♄07'03		morning rise	14362 Dec 04 19:00	14°♄56'27	
direct	14361 Dec 28 17:01	4°♄43'01		direct	14362 Dec 09 00:28	14°♄18'10	
morning max el	14362 Jan 09 13:26	10°♄24'01	21°22'42	morning max el	14362 Dec 22 03:23	20°♄39'48	23°07'26
asc. node	14362 Jan 14 15:57	16°♄14'50			14362 Dec 29 23:21	0°♄	
	14362 Jan 23 04:16	0°♄		asc. node	14363 Jan 01 13:10	3°♄52'38	
morning set	14362 Jan 29 15:41	12°♄56'05		morning set	14363 Jan 14 03:15	27°♄42'00	
					14363 Jan 15 05:03	0°♄	
superior conj	14362 Feb 05 21:44	28°♄10'43	1°17'48	superior conj	14363 Jan 21 01:15	12°♄37'52	1°30'38
minimum elong	14362 Feb 06 00:09	28°♄23'19	1°18'09	minimum elong	14363 Jan 21 02:54	12°♄46'39	1°31'21
	14362 Feb 06 18:50	0°♄			14363 Jan 24 05:53	19°♄24'37	1.33360 AU
max. Earth dist.	14362 Feb 10 12:09	7°♄32'17	1.35071 AU	max. Earth dist.			

evening rise	14363 Jan 28 22:33	28° $\approx$ 58'07		asc. node	14363 Dec 19 10:17	22° $\approx$ 17'45	
	14363 Jan 29 11:07	0° $\mathbb{H}$			14363 Dec 23 14:14	0° $\mathbb{Z}$	
desc. node	14363 Feb 03 04:10	8° $\mathbb{H}$ 55'37		morning set	14363 Dec 29 15:07	12° $\mathbb{Z}$ 24'21	
	14363 Feb 15 21:12	0° $\mathbb{Y}$					
evening max el	14363 Mar 04 10:01	20° $\mathbb{Y}$ 41'41	27°17'48	superior conj	14364 Jan 05 09:32	27° $\mathbb{Z}$ 15'16	1°37'05
retrograde	14363 Mar 17 23:33	28° $\mathbb{Y}$ 10'47		minimum elong	14364 Jan 05 10:08	27° $\mathbb{Z}$ 18'32	1°38'02
evening set	14363 Mar 24 16:17	25° $\mathbb{Y}$ 40'13			14364 Jan 06 15:34	0° $\approx$	
min. Earth dist.	14363 Mar 28 13:03	22° $\mathbb{Y}$ 04'57	0.64884 AU	max. Earth dist.	14364 Jan 07 06:50	1° $\approx$ 23'20	1.32105 AU
asc. node	14363 Mar 30 09:59	20° $\mathbb{Y}$ 02'16		evening rise	14364 Jan 12 16:55	12° $\approx$ 52'59	
inferior conj	14363 Mar 30 23:28	19° $\mathbb{Y}$ 25'03	0°10'43	desc. node	14364 Jan 21 00:51	28° $\approx$ 54'59	
minimum elong	14363 Mar 30 23:10	19° $\mathbb{Y}$ 25'52	0°10'22		14364 Jan 21 15:25	0° $\mathbb{H}$	
transit middle	14363 Mar 30 23:10	19° $\mathbb{Y}$ 25'52	0°10'22		14364 Feb 11 06:08	0° $\mathbb{Y}$	
transit begin	14363 Mar 30 20:51	19° $\mathbb{Y}$ 32'16		evening max el	14364 Feb 14 21:27	3° $\mathbb{Y}$ 45'59	27°34'32
transit end	14363 Mar 31 01:30	19° $\mathbb{Y}$ 19'30		retrograde	14364 Feb 28 18:11	11° $\mathbb{Y}$ 12'45	
morning rise	14363 Apr 06 07:55	13° $\mathbb{Y}$ 58'10		evening set	14364 Mar 06 14:57	8° $\mathbb{Y}$ 51'07	
direct	14363 Apr 08 23:40	13° $\mathbb{Y}$ 21'14		min. Earth dist.	14364 Mar 10 09:11	5° $\mathbb{Y}$ 43'45	0.62913 AU
morning max el	14363 Apr 15 07:33	16° $\mathbb{Y}$ 37'41	17°54'55	inferior conj	14364 Mar 13 06:09	2° $\mathbb{Y}$ 54'33	-0°59'22
	14363 Apr 25 03:04	0° $\mathbb{B}$		minimum elong	14364 Mar 13 08:07	2° $\mathbb{Y}$ 49'42	0°58'30
desc. node	14363 May 02 06:30	11° $\mathbb{B}$ 42'27		asc. node	14364 Mar 16 07:27	0° $\mathbb{Y}$ 05'17	
morning set	14363 May 02 21:48	12° $\mathbb{B}$ 45'46			14364 Mar 16 10:02	30° $\mathbb{R}$ $\mathbb{H}$	
	14363 May 13 10:44	0° $\mathbb{II}$		morning rise	14364 Mar 20 03:58	27° $\mathbb{H}$ 43'33	
				direct	14364 Mar 22 11:50	27° $\mathbb{H}$ 17'59	
superior conj	14363 May 16 21:37	5° $\mathbb{II}$ 31'14	-1°38'47		14364 Mar 28 08:50	0° $\mathbb{Y}$	
minimum elong	14363 May 16 12:43	4° $\mathbb{II}$ 55'47	1°38'47	morning max el	14364 Mar 29 01:20	0° $\mathbb{Y}$ 38'27	17°46'14
max. Earth dist.	14363 May 20 23:05	11° $\mathbb{II}$ 56'03	1.45525 AU	morning set	14364 Apr 14 04:57	25° $\mathbb{Y}$ 17'56	
evening rise	14363 Jun 01 21:16	0° $\mathbb{E}$ 24'54			14364 Apr 16 21:59	0° $\mathbb{B}$	
	14363 Jun 01 14:46	0° $\mathbb{E}$		desc. node	14364 Apr 18 03:08	2° $\mathbb{B}$ 05'51	
greatest brilliancy	14363 Jun 16 06:28	22° $\mathbb{E}$ 04'46	-0.6m				
	14363 Jun 21 21:50	0° $\mathbb{O}$		superior conj	14364 Apr 26 08:35	15° $\mathbb{B}$ 59'47	-1°01'45
asc. node	14363 Jun 26 07:46	5° $\mathbb{O}$ 28'36		minimum elong	14364 Apr 26 02:32	15° $\mathbb{B}$ 34'45	1°01'36
evening max el	14363 Jun 28 00:10	7° $\mathbb{O}$ 16'02	19°47'14	max. Earth dist.	14364 May 02 16:46	26° $\mathbb{B}$ 17'52	1.44439 AU
retrograde	14363 Jul 05 10:22	11° $\mathbb{O}$ 27'50			14364 May 05 00:41	0° $\mathbb{II}$	
evening set	14363 Jul 09 05:53	10° $\mathbb{O}$ 03'35		evening rise	14364 May 11 08:38	9° $\mathbb{II}$ 52'00	
inferior conj	14363 Jul 14 13:36	4° $\mathbb{O}$ 05'52	3°07'40		14364 May 24 19:10	0° $\mathbb{E}$	
minimum elong	14363 Jul 14 14:24	4° $\mathbb{O}$ 03'12	3°06'42	evening max el	14364 Jun 10 00:15	21° $\mathbb{E}$ 06'47	20°52'18
min. Earth dist.	14363 Jul 15 15:37	2° $\mathbb{O}$ 38'34	0.67746 AU	asc. node	14364 Jun 12 04:45	23° $\mathbb{E}$ 07'21	
	14363 Jul 17 17:33	30° $\mathbb{R}$ $\mathbb{E}$		retrograde	14364 Jun 18 09:24	25° $\mathbb{E}$ 57'42	
morning rise	14363 Jul 19 22:29	27° $\mathbb{E}$ 41'40		evening set	14364 Jun 22 15:14	24° $\mathbb{E}$ 16'30	
direct	14363 Jul 25 17:22	25° $\mathbb{E}$ 09'30		inferior conj	14364 Jun 27 21:05	18° $\mathbb{E}$ 07'10	3°10'49
desc. node	14363 Jul 29 05:45	25° $\mathbb{E}$ 56'15		minimum elong	14364 Jun 27 20:53	18° $\mathbb{E}$ 07'54	3°09'46
	14363 Aug 04 05:25	0° $\mathbb{O}$		min. Earth dist.	14364 Jun 28 09:25	17° $\mathbb{E}$ 24'27	0.68604 AU
morning max el	14363 Aug 06 15:18	2° $\mathbb{O}$ 17'58	25°02'02	morning rise	14364 Jul 03 02:15	11° $\mathbb{E}$ 47'12	
	14363 Aug 27 16:44	0° $\mathbb{N}$		direct	14364 Jul 08 09:15	9° $\mathbb{E}$ 28'11	
morning set	14363 Sep 11 11:27	24° $\mathbb{N}$ 20'25		desc. node	14364 Jul 15 03:06	12° $\mathbb{E}$ 19'07	
	14363 Sep 14 14:38	0° $\mathbb{E}$		morning max el	14364 Jul 19 01:55	15° $\mathbb{E}$ 51'13	23°33'28
max. Earth dist.	14363 Sep 15 00:59	0° $\mathbb{E}$ 47'39	1.36824 AU		14364 Jul 30 17:15	0° $\mathbb{O}$	
					14364 Aug 19 15:55	0° $\mathbb{N}$	
superior conj	14363 Sep 21 15:56	13° $\mathbb{E}$ 26'08	-0°06'42	morning set	14364 Aug 22 23:55	5° $\mathbb{N}$ 32'09	
minimum elong	14363 Sep 21 16:21	13° $\mathbb{E}$ 28'10	0°06'29	max. Earth dist.	14364 Aug 26 22:48	12° $\mathbb{N}$ 18'57	1.39174 AU
behind sun begin	14363 Sep 21 10:21	12° $\mathbb{E}$ 58'40					
behind sun end	14363 Sep 21 22:21	13° $\mathbb{E}$ 57'44		superior conj	14364 Sep 03 14:15	26° $\mathbb{N}$ 07'33	-0°41'22
asc. node	14363 Sep 22 09:19	14° $\mathbb{E}$ 51'55		minimum elong	14364 Sep 03 17:16	26° $\mathbb{N}$ 21'39	0°41'01
evening rise	14363 Sep 29 21:26	29° $\mathbb{E}$ 59'57			14364 Sep 05 15:38	0° $\mathbb{E}$	
	14363 Sep 29 21:27	0° $\mathbb{M}$		asc. node	14364 Sep 08 05:52	4° $\mathbb{E}$ 57'43	
evening max el	14363 Oct 17 01:25	28° $\mathbb{M}$ 15'41	19°38'28	evening rise	14364 Sep 12 19:40	13° $\mathbb{E}$ 50'34	
	14363 Oct 18 23:30	0° $\mathbb{A}$			14364 Sep 21 13:15	0° $\mathbb{M}$	
desc. node	14363 Oct 25 01:54	3° $\mathbb{A}$ 01'58		evening max el	14364 Sep 28 23:15	10° $\mathbb{M}$ 07'17	18°45'37
retrograde	14363 Oct 26 22:53	3° $\mathbb{A}$ 12'16		retrograde	14364 Oct 07 08:13	14° $\mathbb{M}$ 20'14	
evening set	14363 Oct 28 20:48	3° $\mathbb{A}$ 02'00		evening set	14364 Oct 09 05:50	14° $\mathbb{M}$ 08'00	
	14363 Nov 04 23:03	30° $\mathbb{R}$ $\mathbb{M}$		desc. node	14364 Oct 10 23:20	13° $\mathbb{M}$ 36'57	
inferior conj	14363 Nov 06 14:42	28° $\mathbb{M}$ 58'25	-3°50'00	inferior conj	14364 Oct 17 09:10	9° $\mathbb{M}$ 45'51	-2°02'30
minimum elong	14363 Nov 06 05:21	29° $\mathbb{M}$ 13'09	3°46'02	minimum elong	14364 Oct 17 04:06	9° $\mathbb{M}$ 55'05	1°59'53
min. Earth dist.	14363 Nov 08 20:55	27° $\mathbb{M}$ 33'04	0.55321 AU	min. Earth dist.	14364 Oct 20 10:57	7° $\mathbb{M}$ 31'45	0.56911 AU
morning rise	14363 Nov 14 12:04	24° $\mathbb{M}$ 38'49		morning rise	14364 Oct 24 23:06	4° $\mathbb{M}$ 49'50	
direct	14363 Nov 19 15:26	23° $\mathbb{M}$ 40'01		direct	14364 Oct 30 20:36	3° $\mathbb{M}$ 25'20	
	14363 Dec 02 21:08	0° $\mathbb{A}$		morning max el	14364 Nov 14 01:53	10° $\mathbb{M}$ 48'31	26°30'02
morning max el	14363 Dec 03 12:48	0° $\mathbb{A}$ 36'26	24°56'09		14364 Nov 28 19:48	0° $\mathbb{A}$	

asc. node	14364 Dec 05 07:18	11°♊18'24		asc. node	14365 Nov 22 04:12	0°♊44'38	
morning set	14364 Dec 13 01:35	26°♊58'51		morning set	14365 Nov 27 08:54	11°♊20'47	
	14364 Dec 14 11:04	0°♊					
superior conj	14364 Dec 19 20:25	11°♊56'59	1°37'24	superior conj	14365 Dec 04 07:58	26°♊37'14	1°31'50
minimum elong	14364 Dec 19 19:57	11°♊54'19	1°38'27	minimum elong	14365 Dec 04 06:33	26°♊29'17	1°32'46
max. Earth dist.	14364 Dec 20 13:02	13°♊29'36	1.31357 AU	max. Earth dist.	14365 Dec 03 21:16	25°♊37'23	1.31127 AU
evening rise	14364 Dec 26 18:39	27°♊05'15		evening rise	14365 Dec 05 20:14	0°♊	
	14364 Dec 28 04:06	0°♊			14365 Dec 11 01:26	11°♊28'54	
desc. node	14365 Jan 06 21:35	18°♊31'16		desc. node	14365 Dec 20 08:44	0°♊	
	14365 Jan 14 00:59	0°♊			14365 Dec 24 18:27	7°♊35'40	
evening max el	14365 Jan 27 04:45	16°♊10'45	27°18'44	evening max el	14366 Jan 09 05:14	27°♊45'57	26°28'03
retrograde	14365 Feb 10 04:22	23°♊28'58		retrograde	14366 Jan 11 18:19	0°♊	
evening set	14365 Feb 16 23:42	21°♊24'23		evening set	14366 Jan 23 04:23	4°♊52'59	
min. Earth dist.	14365 Feb 20 19:16	18°♊37'36	0.60746 AU	evening set	14366 Jan 29 14:51	3°♊12'22	
inferior conj	14365 Feb 23 22:55	15°♊54'13	-2°20'09	min. Earth dist.	14366 Feb 02 18:50	0°♊35'23	0.58563 AU
minimum elong	14365 Feb 24 04:00	15°♊43'12	2°17'48		14366 Feb 03 14:08	30°♊	
morning rise	14365 Mar 03 11:31	11°♊01'50		inferior conj	14366 Feb 05 22:09	28°♊14'18	-3°46'08
asc. node	14365 Mar 03 04:57	11°♊06'44		minimum elong	14366 Feb 06 06:17	27°♊59'00	3°42'47
direct	14365 Mar 05 13:42	10°♊43'54		morning rise	14366 Feb 14 00:48	23°♊43'08	
morning max el	14365 Mar 12 17:09	14°♊18'53	17°55'46	direct	14366 Feb 16 01:06	23°♊29'09	
	14365 Mar 23 11:09	0°♊		asc. node	14366 Feb 18 02:24	23°♊44'23	
morning set	14365 Mar 28 07:14	8°♊43'16		morning max el	14366 Feb 24 03:19	27°♊28'51	18°25'01
desc. node	14365 Apr 04 23:40	22°♊36'37			14366 Feb 26 10:06	0°♊	
				morning set	14366 Mar 11 23:04	22°♊45'23	
superior conj	14365 Apr 07 19:25	27°♊34'05	-0°22'29		14366 Mar 15 18:05	0°♊	
minimum elong	14365 Apr 07 17:26	27°♊25'25	0°22'32	superior conj	14366 Mar 21 03:55	10°♊07'49	0°13'38
	14365 Apr 09 05:09	0°♊		minimum elong	14366 Mar 21 04:53	10°♊12'15	0°13'24
max. Earth dist.	14365 Apr 15 06:31	10°♊11'41	1.42768 AU	behind sun begin	14366 Mar 21 00:57	9°♊54'09	
evening rise	14365 Apr 21 07:00	19°♊54'02		behind sun end	14366 Mar 21 08:50	10°♊30'20	
	14365 Apr 27 19:35	0°♊		desc. node	14366 Mar 22 20:10	13°♊11'14	
	14365 May 19 07:29	0°♊		max. Earth dist.	14366 Mar 28 16:09	23°♊28'15	1.40687 AU
evening max el	14365 May 23 19:02	4°♊58'04	22°07'49		14366 Apr 01 13:04	0°♊	
asc. node	14365 May 30 01:49	9°♊45'56		evening rise	14366 Apr 02 01:06	0°♊49'43	
retrograde	14365 Jun 02 07:12	10°♊32'35			14366 Apr 21 05:00	0°♊	
evening set	14365 Jun 07 00:08	8°♊35'17		evening max el	14366 May 06 10:14	18°♊50'54	23°28'33
inferior conj	14365 Jun 12 06:34	2°♊16'10	3°02'55	asc. node	14366 May 16 23:01	25°♊07'28	
minimum elong	14365 Jun 12 05:27	2°♊20'03	3°01'44	retrograde	14366 May 17 02:29	25°♊07'34	
min. Earth dist.	14365 Jun 12 05:43	2°♊19'05	0.68987 AU	evening set	14366 May 22 07:00	22°♊55'53	
	14365 Jun 13 22:10	30°♊		min. Earth dist.	14366 May 27 02:24	17°♊16'29	0.68892 AU
morning rise	14365 Jun 17 10:35	26°♊02'31		inferior conj	14366 May 27 16:07	16°♊29'21	2°44'38
direct	14365 Jun 22 05:02	24°♊01'18		minimum elong	14366 May 27 14:19	16°♊35'32	2°43'17
morning max el	14365 Jul 01 14:35	29°♊31'49	22°05'04	morning rise	14366 Jun 01 21:35	10°♊23'29	
desc. node	14365 Jul 02 00:18	29°♊56'28		direct	14366 Jun 06 03:32	8°♊42'27	
	14365 Jul 02 01:41	0°♊		morning max el	14366 Jun 14 08:37	13°♊23'22	20°44'21
	14365 Jul 24 10:20	0°♊		desc. node	14366 Jun 18 21:23	18°♊28'48	
morning set	14365 Aug 03 12:02	15°♊39'46			14366 Jun 27 10:55	0°♊	
max. Earth dist.	14365 Aug 08 23:51	24°♊39'01	1.41498 AU	morning set	14366 Jul 14 01:14	24°♊49'09	
	14365 Aug 12 03:57	0°♊			14366 Jul 17 08:47	0°♊	
superior conj	14365 Aug 16 18:38	8°♊00'21	-1°16'51	max. Earth dist.	14366 Jul 22 07:49	7°♊54'12	1.43509 AU
minimum elong	14365 Aug 17 00:34	8°♊26'32	1°16'29	superior conj	14366 Jul 29 00:58	18°♊55'52	-1°48'23
asc. node	14365 Aug 26 02:24	24°♊57'10		minimum elong	14366 Jul 29 08:24	19°♊27'02	1°48'28
evening rise	14365 Aug 27 07:29	27°♊12'02			14366 Aug 04 12:55	0°♊	
	14365 Aug 28 19:44	0°♊		evening rise	14366 Aug 10 04:31	9°♊53'47	
evening max el	14365 Sep 12 06:42	22°♊40'14	18°14'04	asc. node	14366 Aug 12 22:59	14°♊46'34	
retrograde	14365 Sep 19 12:48	26°♊21'45			14366 Aug 22 04:10	0°♊	
evening set	14365 Sep 21 16:16	26°♊03'01		evening max el	14366 Aug 26 19:33	5°♊44'43	18°02'21
desc. node	14365 Sep 27 20:51	22°♊19'28		retrograde	14366 Sep 02 09:51	9°♊09'01	
inferior conj	14365 Sep 29 01:21	21°♊19'30	-0°22'27	evening set	14366 Sep 04 21:04	8°♊40'07	
minimum elong	14365 Sep 29 00:33	21°♊21'13	0°21'52	inferior conj	14366 Sep 11 13:15	3°♊36'38	0°58'00
min. Earth dist.	14365 Oct 02 08:15	18°♊32'13	0.59005 AU	minimum elong	14366 Sep 11 14:54	3°♊32'34	0°57'22
morning rise	14365 Oct 06 05:26	15°♊48'15		min. Earth dist.	14366 Sep 14 14:48	0°♊36'45	0.61291 AU
direct	14365 Oct 12 15:18	13°♊56'53		desc. node	14366 Sep 14 18:22	0°♊28'25	
morning max el	14365 Oct 26 22:32	21°♊39'47	27°33'29		14366 Sep 15 06:45	30°♊	
	14365 Nov 03 06:07	0°♊		morning rise	14366 Sep 18 05:58	27°♊38'09	
	14365 Nov 21 19:02	0°♊		direct	14366 Sep 24 21:33	25°♊23'09	

	14366 Oct 05 09:57	0°♄		direct	14367 Sep 07 13:47	7°♄42'23	
morning max el	14366 Oct 09 02:39	3°♄19'28	27°58'32	morning max el	14367 Sep 21 11:44	15°♄43'21	27°45'20
	14366 Oct 28 20:23	0°♄			14367 Oct 03 05:25	0°♄	
asc. node	14366 Nov 09 00:58	20°♄29'07			14367 Oct 21 13:15	0°♄	
morning set	14366 Nov 11 11:05	25°♄25'09		morning set	14367 Oct 26 05:54	9°♄06'46	
	14366 Nov 13 15:23	0°♄		asc. node	14367 Oct 26 21:41	10°♄26'13	
max. Earth dist.	14366 Nov 17 03:40	7°♄36'50	1.31431 AU	max. Earth dist.	14367 Oct 31 04:17	19°♄18'50	1.32280 AU
superior conj	14366 Nov 18 18:21	11°♄10'27	1°20'24	superior conj	14367 Nov 03 01:38	25°♄31'44	1°03'10
minimum elong	14366 Nov 18 16:16	10°♄58'55	1°21'07	minimum elong	14367 Nov 02 23:20	25°♄19'14	1°03'36
evening rise	14366 Nov 25 11:16	25°♄58'29			14367 Nov 05 02:48	0°♄	
	14366 Nov 27 08:30	0°♄		evening rise	14367 Nov 09 22:19	10°♄29'29	
desc. node	14366 Dec 11 15:26	25°♄55'32			14367 Nov 19 18:41	0°♄	
	14366 Dec 14 12:36	0°♄		desc. node	14367 Nov 28 12:32	13°♄14'26	
evening max el	14366 Dec 21 21:04	8°♄28'09	25°06'23	evening max el	14367 Dec 03 07:00	18°♄33'23	23°26'17
retrograde	14367 Jan 04 16:27	15°♄23'33		retrograde	14367 Dec 16 15:52	25°♄11'57	
evening set	14367 Jan 10 08:24	14°♄11'29		evening set	14367 Dec 21 02:45	24°♄28'53	
min. Earth dist.	14367 Jan 15 09:05	11°♄28'42	0.56600 AU	min. Earth dist.	14367 Dec 27 17:24	21°♄20'57	0.55150 AU
inferior conj	14367 Jan 18 00:49	9°♄45'02	-5°04'37	inferior conj	14367 Dec 29 07:20	20°♄25'35	-5°53'31
minimum elong	14367 Jan 18 09:34	9°♄30'46	5°01'45	minimum elong	14367 Dec 29 11:03	20°♄20'10	5°52'13
morning rise	14367 Jan 26 13:08	5°♄35'51		morning rise	14368 Jan 06 21:00	16°♄33'30	
direct	14367 Jan 28 17:48	5°♄22'05		direct	14368 Jan 09 15:05	16°♄15'10	
asc. node	14367 Feb 04 23:48	8°♄04'13		morning max el	14368 Jan 20 14:43	21°♄31'16	20°30'02
morning max el	14367 Feb 07 03:43	9°♄56'07	19°15'59	asc. node	14368 Jan 22 21:08	23°♄54'52	
	14367 Feb 20 08:16	0°♄			14368 Jan 27 10:52	0°♄	
morning set	14367 Feb 24 00:06	7°♄10'21		morning set	14368 Feb 08 07:06	21°♄48'56	
					14368 Feb 12 05:59	0°♄	
superior conj	14367 Mar 04 05:34	23°♄27'38	0°43'53	superior conj	14368 Feb 15 20:02	7°♄21'30	1°07'23
minimum elong	14367 Mar 04 07:59	23°♄39'17	0°43'44	minimum elong	14368 Feb 15 22:42	7°♄34'58	1°07'31
	14367 Mar 07 15:59	0°♄		max. Earth dist.	14368 Feb 21 06:02	18°♄03'48	1.36220 AU
desc. node	14367 Mar 09 16:39	3°♄45'30		desc. node	14368 Feb 24 13:11	24°♄16'03	
max. Earth dist.	14367 Mar 10 22:41	6°♄02'15	1.38421 AU	evening rise	14368 Feb 25 02:04	25°♄15'14	
evening rise	14367 Mar 14 16:11	12°♄38'56			14368 Feb 27 17:18	0°♄	
	14367 Mar 25 05:41	0°♄			14368 Mar 17 18:42	0°♄	
	14367 Apr 16 08:51	0°♄		evening max el	14368 Mar 31 13:11	16°♄35'09	25°59'49
evening max el	14367 Apr 18 23:44	2°♄44'02	24°48'15	retrograde	14368 Apr 13 05:11	23°♄51'01	
retrograde	14367 Apr 30 18:07	9°♄35'57		evening set	14368 Apr 19 08:09	21°♄20'42	
asc. node	14367 May 03 20:18	8°♄54'44		asc. node	14368 Apr 19 17:40	21°♄00'16	
evening set	14367 May 06 10:13	7°♄12'49		min. Earth dist.	14368 Apr 23 12:40	16°♄53'14	0.67300 AU
min. Earth dist.	14367 May 10 21:24	2°♄09'55	0.68321 AU	inferior conj	14368 Apr 25 03:44	14°♄50'59	1°36'31
inferior conj	14367 May 11 23:49	0°♄42'19	2°15'58	minimum elong	14368 Apr 25 01:44	14°♄57'15	1°35'13
minimum elong	14367 May 11 21:41	0°♄49'26	2°14'33	morning rise	14368 Apr 30 20:03	9°♄04'04	
	14367 May 12 12:37	30°♄8		direct	14368 May 04 02:54	8°♄02'36	
morning rise	14367 May 17 09:23	24°♄45'18		morning max el	14368 May 10 18:31	11°♄36'50	18°43'42
direct	14367 May 21 03:19	23°♄24'46		desc. node	14368 May 22 15:14	27°♄22'06	
morning max el	14367 May 28 09:57	27°♄26'03	19°36'19		14368 May 24 08:42	0°♄	
	14367 May 30 19:23	0°♄		morning set	14368 Jun 01 15:46	12°♄52'01	
desc. node	14367 Jun 05 18:22	7°♄40'54			14368 Jun 12 15:29	0°♄	
greatest brilliancy	14367 Jun 10 01:44	13°♄50'38	-0.6m	max. Earth dist.	14368 Jun 16 15:52	6°♄15'54	1.45772 AU
	14367 Jun 20 19:37	0°♄		superior conj	14368 Jun 17 20:16	8°♄06'54	-2°12'39
morning set	14367 Jun 23 03:33	3°♄34'13		minimum elong	14368 Jun 17 17:40	7°♄56'44	2°13'38
max. Earth dist.	14367 Jul 04 21:51	21°♄51'49	1.44978 AU		14368 Jul 01 16:52	0°♄	
superior conj	14367 Jul 09 07:41	28°♄52'25	-2°09'17	evening rise	14368 Jul 03 06:26	2°♄30'06	
minimum elong	14367 Jul 09 12:25	29°♄11'23	2°10'05	greatest brilliancy	14368 Jul 09 15:44	12°♄42'59	-0.9m
	14367 Jul 10 00:32	0°♄		asc. node	14368 Jul 16 16:23	23°♄34'52	
evening rise	14367 Jul 23 05:37	21°♄43'07			14368 Jul 21 09:21	0°♄	
	14367 Jul 28 04:19	0°♄		evening max el	14368 Jul 23 23:12	2°♄52'15	18°34'18
asc. node	14367 Jul 30 19:38	4°♄21'17		retrograde	14368 Jul 30 11:18	6°♄22'55	
evening max el	14367 Aug 10 10:06	19°♄11'35	18°09'23	evening set	14368 Aug 02 15:46	5°♄25'26	
retrograde	14367 Aug 16 18:46	22°♄32'29		inferior conj	14368 Aug 08 08:23	29°♄49'17	2°36'44
evening set	14367 Aug 19 14:22	21°♄50'27		minimum elong	14368 Aug 08 10:32	29°♄42'42	2°35'40
inferior conj	14367 Aug 25 16:55	16°♄29'36	1°56'58		14368 Aug 08 04:51	30°♄	
minimum elong	14367 Aug 25 19:21	16°♄22'51	1°55'55	min. Earth dist.	14368 Aug 10 09:02	27°♄21'38	0.65462 AU
min. Earth dist.	14367 Aug 28 07:19	13°♄37'27	0.63504 AU	morning rise	14368 Aug 14 04:10	23°♄25'46	
morning rise	14367 Aug 31 22:27	10°♄14'05		desc. node	14368 Aug 18 13:23	21°♄01'54	
desc. node	14367 Sep 01 15:52	9°♄42'31					



direct	14368 Aug 20 14:20	20° $\Omega$ 46'35		min. Earth dist.	14369 Jul 24 18:25	11° $\Omega$ 37'50	0.67042 AU
morning max el	14368 Sep 02 22:49	28° $\Omega$ 39'07	26°59'27	morning rise	14369 Jul 28 20:23	7° $\Omega$ 04'12	
	14368 Sep 04 06:01	0° $\mathbb{M}$		direct	14369 Aug 03 21:42	4° $\Omega$ 27'02	
	14368 Sep 26 00:53	0° $\underline{\Omega}$		desc. node	14369 Aug 05 10:50	4° $\Omega$ 36'05	
morning set	14368 Oct 08 14:27	22° $\underline{\Omega}$ 17'57		morning max el	14369 Aug 16 09:50	11° $\Omega$ 55'28	25°49'26
asc. node	14368 Oct 12 18:19	0° $\mathbb{M}$ 30'37			14369 Aug 30 21:56	0° $\mathbb{M}$	
	14368 Oct 12 12:15	0° $\mathbb{M}$			14369 Sep 18 16:47	0° $\underline{\Omega}$	
max. Earth dist.	14368 Oct 12 19:47	0° $\mathbb{M}$ 38'03	1.33675 AU	morning set	14369 Sep 21 09:13	4° $\underline{\Omega}$ 50'34	
				max. Earth dist.	14369 Sep 25 01:27	11° $\underline{\Omega}$ 43'08	1.35568 AU
superior conj	14368 Oct 17 03:34	9° $\mathbb{M}$ 34'26	0°40'12	asc. node	14369 Sep 29 14:56	20° $\underline{\Omega}$ 38'36	
minimum elong	14368 Oct 17 01:39	9° $\mathbb{M}$ 24'26	0°40'25				
evening rise	14368 Oct 24 08:40	24° $\mathbb{M}$ 56'21		superior conj	14369 Sep 30 21:29	23° $\underline{\Omega}$ 12'15	0°11'49
	14368 Oct 26 18:45	0° $\mathbb{M}$		minimum elong	14369 Sep 30 20:47	23° $\underline{\Omega}$ 08'44	0°12'00
evening max el	14368 Nov 13 19:36	28° $\mathbb{M}$ 35'53	21°45'32	behind sun begin	14369 Sep 30 16:39	22° $\underline{\Omega}$ 47'49	
desc. node	14368 Nov 14 09:44	29° $\mathbb{M}$ 09'49		behind sun end	14369 Oct 01 00:56	23° $\underline{\Omega}$ 29'41	
	14368 Nov 15 08:00	0° $\mathbb{M}$			14369 Oct 04 05:12	0° $\mathbb{M}$	
retrograde	14368 Nov 26 04:31	4° $\mathbb{M}$ 43'30		evening rise	14369 Oct 08 16:19	9° $\mathbb{M}$ 14'26	
evening set	14368 Nov 29 06:43	4° $\mathbb{M}$ 22'00			14369 Oct 19 17:44	0° $\mathbb{M}$	
inferior conj	14368 Dec 08 00:26	0° $\mathbb{M}$ 29'21	-5°49'04	evening max el	14369 Oct 26 19:40	9° $\mathbb{M}$ 10'49	20°18'52
minimum elong	14368 Dec 07 19:05	0° $\mathbb{M}$ 36'50	5°47'28	desc. node	14369 Nov 01 07:03	13° $\mathbb{M}$ 15'57	
min. Earth dist.	14368 Dec 07 23:25	0° $\mathbb{M}$ 30'47	0.54486 AU	retrograde	14369 Nov 06 15:41	14° $\mathbb{M}$ 34'10	
	14368 Dec 08 21:26	30° $\mathbb{M}$ 37'37		evening set	14369 Nov 08 19:37	14° $\mathbb{M}$ 22'16	
morning rise	14368 Dec 16 08:16	26° $\mathbb{M}$ 41'31		inferior conj	14369 Nov 17 17:27	10° $\mathbb{M}$ 26'14	-4°45'31
direct	14368 Dec 20 00:12	26° $\mathbb{M}$ 12'07		minimum elong	14369 Nov 17 07:22	10° $\mathbb{M}$ 41'03	4°41'53
	14368 Dec 29 21:37	0° $\mathbb{M}$		min. Earth dist.	14369 Nov 19 06:05	9° $\mathbb{M}$ 32'18	0.54761 AU
morning max el	14369 Jan 01 11:10	2° $\mathbb{M}$ 11'49	22°05'38	morning rise	14369 Nov 25 18:30	6° $\mathbb{M}$ 23'53	
asc. node	14369 Jan 08 18:24	10° $\mathbb{M}$ 58'21		direct	14369 Nov 30 10:00	5° $\mathbb{M}$ 37'17	
	14369 Jan 19 13:34	0° $\mathbb{M}$		morning max el	14369 Dec 13 21:48	12° $\mathbb{M}$ 14'25	23°54'09
morning set	14369 Jan 22 17:34	6° $\mathbb{M}$ 33'36		asc. node	14369 Dec 26 15:35	28° $\mathbb{M}$ 58'00	
					14369 Dec 27 06:22	0° $\mathbb{M}$	
superior conj	14369 Jan 29 19:39	21° $\mathbb{M}$ 38'47	1°24'02	morning set	14370 Jan 07 05:28	21° $\mathbb{M}$ 18'27	
minimum elong	14369 Jan 29 21:47	21° $\mathbb{M}$ 50'03	1°24'33		14370 Jan 11 05:32	0° $\mathbb{M}$	
	14369 Feb 02 20:20	0° $\mathbb{M}$					
max. Earth dist.	14369 Feb 02 19:11	29° $\mathbb{M}$ 54'12	1.34292 AU	superior conj	14370 Jan 14 01:27	6° $\mathbb{M}$ 10'51	1°34'07
evening rise	14369 Feb 07 03:15	8° $\mathbb{M}$ 29'14		minimum elong	14370 Jan 14 02:40	6° $\mathbb{M}$ 17'27	1°34'58
desc. node	14369 Feb 10 09:46	14° $\mathbb{M}$ 38'43		max. Earth dist.	14370 Jan 16 16:15	11° $\mathbb{M}$ 49'15	1.32773 AU
	14369 Feb 19 07:11	0° $\mathbb{M}$		evening rise	14370 Jan 21 16:14	22° $\mathbb{M}$ 11'39	
	14369 Mar 13 19:41	0° $\mathbb{M}$			14370 Jan 25 16:13	0° $\mathbb{M}$	
evening max el	14369 Mar 14 03:01	0° $\mathbb{M}$ 17'53	26°55'47	desc. node	14370 Jan 28 06:24	4° $\mathbb{M}$ 48'27	
retrograde	14369 Mar 27 10:35	7° $\mathbb{M}$ 45'10			14370 Feb 13 01:56	0° $\mathbb{M}$	
evening set	14369 Apr 02 22:53	5° $\mathbb{M}$ 13'08		evening max el	14370 Feb 24 16:04	13° $\mathbb{M}$ 40'36	27°28'42
asc. node	14369 Apr 06 15:06	1° $\mathbb{M}$ 39'11		retrograde	14370 Mar 10 09:12	21° $\mathbb{M}$ 08'55	
min. Earth dist.	14369 Apr 06 22:10	1° $\mathbb{M}$ 19'21	0.65867 AU	evening set	14370 Mar 17 04:08	18° $\mathbb{M}$ 41'35	
	14369 Apr 08 01:45	30° $\mathbb{M}$ 37'37		min. Earth dist.	14370 Mar 20 23:40	15° $\mathbb{M}$ 18'39	0.64077 AU
inferior conj	14369 Apr 09 01:37	28° $\mathbb{M}$ 50'29	0°45'34	inferior conj	14370 Mar 23 14:44	12° $\mathbb{M}$ 33'28	-0°17'32
minimum elong	14369 Apr 09 00:27	28° $\mathbb{M}$ 53'53	0°44'44	minimum elong	14370 Mar 23 15:16	12° $\mathbb{M}$ 32'03	0°17'26
morning rise	14369 Apr 15 03:23	23° $\mathbb{M}$ 15'24		asc. node	14370 Mar 24 12:34	11° $\mathbb{M}$ 36'39	
direct	14369 Apr 18 00:16	22° $\mathbb{M}$ 30'25		morning rise	14370 Mar 30 04:35	7° $\mathbb{M}$ 12'41	
morning max el	14369 Apr 24 08:43	25° $\mathbb{M}$ 50'07	18°07'47	direct	14370 Apr 01 16:49	6° $\mathbb{M}$ 40'56	
	14369 Apr 27 23:48	0° $\mathbb{M}$		morning max el	14370 Apr 08 02:01	9° $\mathbb{M}$ 57'45	17°49'02
desc. node	14369 May 09 12:00	17° $\mathbb{M}$ 24'38			14370 Apr 21 19:13	0° $\mathbb{M}$	
morning set	14369 May 13 05:29	23° $\mathbb{M}$ 25'42		morning set	14370 Apr 24 22:50	5° $\mathbb{M}$ 19'03	
	14369 May 17 07:23	0° $\mathbb{M}$		desc. node	14370 Apr 26 08:41	7° $\mathbb{M}$ 41'54	
superior conj	14369 May 28 05:21	17° $\mathbb{M}$ 19'00	-1°55'54	superior conj	14370 May 08 03:39	27° $\mathbb{M}$ 11'13	-1°23'49
minimum elong	14369 May 27 20:56	16° $\mathbb{M}$ 45'57	1°56'17	minimum elong	14370 May 07 19:33	26° $\mathbb{M}$ 38'33	1°23'41
max. Earth dist.	14369 May 30 11:57	20° $\mathbb{M}$ 52'38	1.45829 AU		14370 May 09 21:40	0° $\mathbb{M}$	
	14369 Jun 05 08:33	0° $\mathbb{M}$		max. Earth dist.	14370 May 13 07:38	5° $\mathbb{M}$ 25'54	1.45147 AU
evening rise	14369 Jun 13 07:50	12° $\mathbb{M}$ 21'09		evening rise	14370 May 23 19:43	21° $\mathbb{M}$ 45'01	
	14369 Jun 24 19:51	0° $\mathbb{M}$			14370 May 29 06:00	0° $\mathbb{M}$	
greatest brilliancy	14369 Jun 25 09:24	0° $\Omega$ 50'50	-0.7m		14370 Jun 19 23:51	0° $\Omega$	
asc. node	14369 Jul 03 13:13	12° $\Omega$ 20'03		asc. node	14370 Jun 20 10:09	0° $\Omega$ 26'19	
evening max el	14369 Jul 07 08:23	16° $\Omega$ 40'34	19°16'09	evening max el	14370 Jun 20 11:57	0° $\Omega$ 30'51	20°13'24
retrograde	14369 Jul 14 08:14	20° $\Omega$ 33'38		retrograde	14370 Jun 28 07:01	4° $\Omega$ 57'52	
evening set	14369 Jul 17 22:07	19° $\Omega$ 19'18		evening set	14370 Jul 02 06:56	3° $\Omega$ 26'10	
inferior conj	14369 Jul 23 08:12	13° $\Omega$ 29'15	3°00'20		14370 Jul 05 14:19	30° $\mathbb{M}$ 37'37	
minimum elong	14369 Jul 23 09:33	13° $\Omega$ 24'49	2°59'20	inferior conj	14370 Jul 07 13:32	27° $\mathbb{M}$ 23'27	3°10'24

minimum elong	14370 Jul 07 13:54	27°☿22'12	3°09'24	minimum elong	14371 Jun 21 21:28	11°☿30'06	3°07'39
min. Earth dist.	14370 Jul 08 09:38	26°☿14'57	0.68174 AU	min. Earth dist.	14371 Jun 22 04:40	11°☿05'03	0.68829 AU
morning rise	14370 Jul 12 20:33	21°☿01'00		morning rise	14371 Jun 27 02:28	5°☿10'37	
direct	14370 Jul 18 10:35	18°☿33'47		direct	14371 Jul 02 04:04	2°☿59'03	
desc. node	14370 Jul 23 08:12	20°☿04'30		desc. node	14371 Jul 10 05:30	7°☿01'26	
morning max el	14370 Jul 29 20:17	25°☿23'27	24°24'55	morning max el	14371 Jul 12 07:33	8°☿59'50	22°55'22
	14370 Aug 03 00:54	0°♊			14371 Jul 28 19:20	0°♊	
	14370 Aug 24 09:44	0°♊		morning set	14371 Aug 15 12:21	27°♊18'57	
morning set	14370 Sep 03 09:59	16°♊34'22			14371 Aug 17 03:10	0°♊	
max. Earth dist.	14370 Sep 07 00:44	22°♊57'56	1.37813 AU	max. Earth dist.	14371 Aug 19 23:37	4°♊49'10	1.40182 AU
	14370 Sep 10 20:43	0°♋					
superior conj	14370 Sep 14 04:04	6°♋16'39	-0°21'05	superior conj	14371 Aug 27 19:14	18°♊37'49	-0°56'34
minimum elong	14370 Sep 14 05:29	6°♋23'31	0°20'48	minimum elong	14371 Aug 27 23:31	18°♊57'22	0°56'10
asc. node	14370 Sep 16 11:31	10°♋46'10		asc. node	14371 Sep 03 08:03	0°♋49'26	
evening rise	14370 Sep 22 18:49	23°♋17'13		evening rise	14371 Sep 06 13:04	6°♋56'25	
	14370 Sep 26 04:42	0°♌			14371 Sep 20 02:36	0°♌	
evening max el	14370 Oct 09 10:01	20°♌34'02	19°13'16	evening max el	14371 Sep 22 12:20	2°♌43'32	18°29'40
retrograde	14370 Oct 18 14:53	25°♌11'04		retrograde	14371 Sep 30 08:46	6°♌41'56	
desc. node	14370 Oct 19 04:25	25°♌10'04		evening set	14371 Oct 02 08:17	6°♌27'31	
evening set	14370 Oct 20 11:40	25°♌00'28		desc. node	14371 Oct 06 01:52	4°♌50'52	
inferior conj	14370 Oct 29 00:12	20°♌49'17	-3°04'50	inferior conj	14371 Oct 10 03:54	1°♌56'08	-1°18'07
minimum elong	14370 Oct 28 16:26	21°♌02'16	3°01'13	minimum elong	14371 Oct 10 00:50	2°♌02'09	1°16'25
min. Earth dist.	14370 Oct 31 16:26	19°♌02'12	0.55917 AU		14371 Oct 12 15:10	30°♌	
morning rise	14370 Nov 05 18:43	16°♌15'04		min. Earth dist.	14371 Oct 13 09:19	29°♋25'36	0.57749 AU
direct	14370 Nov 11 06:23	15°♌06'04		morning rise	14371 Oct 17 13:52	26°♋44'09	
morning max el	14370 Nov 25 07:55	22°♌13'50	25°39'01	direct	14371 Oct 23 17:08	25°♋08'23	
	14370 Dec 02 04:41	0°♍			14371 Nov 03 23:45	0°♌	
asc. node	14370 Dec 13 12:39	17°♍40'01		morning max el	14371 Nov 07 00:17	2°♌41'10	27°01'34
	14370 Dec 19 20:59	0°♎			14371 Nov 26 16:06	0°♍	
morning set	14370 Dec 22 16:59	5°♎58'46		asc. node	14371 Nov 30 09:37	6°♍52'33	
				morning set	14371 Dec 07 02:20	20°♍28'43	
superior conj	14370 Dec 29 11:06	20°♎51'13	1°37'57		14371 Dec 11 10:49	0°♎	
minimum elong	14370 Dec 29 11:14	20°♎51'58	1°38'58	superior conj	14371 Dec 13 22:28	5°♎32'58	1°35'46
max. Earth dist.	14370 Dec 30 20:05	23°♎53'37	1.31729 AU	minimum elong	14371 Dec 13 21:34	5°♎27'56	1°36'47
	14371 Jan 02 15:14	0°♏		max. Earth dist.	14371 Dec 14 03:38	6°♎01'48	1.31192 AU
evening rise	14371 Jan 05 14:04	6°♏15'13		evening rise	14371 Dec 20 18:10	20°♎32'43	
desc. node	14371 Jan 15 03:06	24°♏39'29			14371 Dec 25 08:27	0°♏	
	14371 Jan 18 05:35	0°♐		desc. node	14372 Jan 01 23:52	14°♏03'31	
evening max el	14371 Feb 07 02:09	26°♐30'10	27°31'58		14372 Jan 12 15:48	0°♐	
	14371 Feb 11 05:07	0°♑		evening max el	14372 Jan 20 06:34	8°♐33'46	27°01'15
retrograde	14371 Feb 21 00:06	3°♑53'04		retrograde	14372 Feb 03 06:14	15°♐47'55	
evening set	14371 Feb 27 21:16	1°♑37'41		evening set	14372 Feb 09 23:00	13°♐52'20	
	14371 Mar 02 02:21	30°♑		min. Earth dist.	14372 Feb 13 20:49	11°♐11'35	0.59812 AU
min. Earth dist.	14371 Mar 03 15:28	28°♐40'22	0.62014 AU	inferior conj	14372 Feb 17 01:37	8°♐35'21	-2°56'32
inferior conj	14371 Mar 06 15:57	25°♐51'48	-1°32'28	minimum elong	14372 Feb 17 08:07	8°♐22'07	2°53'37
minimum elong	14371 Mar 06 19:09	25°♐44'18	1°30'59	morning rise	14372 Feb 24 20:32	3°♐52'07	
asc. node	14371 Mar 11 10:00	21°♐58'20		asc. node	14372 Feb 26 07:28	3°♐37'39	
morning rise	14371 Mar 13 19:57	20°♐48'23		direct	14372 Feb 26 21:19	3°♐36'21	
direct	14371 Mar 16 01:13	20°♐26'23		morning max el	14372 Mar 05 09:19	7°♐20'20	18°05'44
morning max el	14371 Mar 22 19:23	23°♐51'21	17°48'01		14372 Mar 19 21:57	0°♑	
	14371 Mar 27 18:14	0°♑		morning set	14372 Mar 20 23:29	1°♑58'39	
morning set	14371 Apr 07 14:52	18°♑16'22		desc. node	14372 Mar 30 01:49	18°♑42'01	
desc. node	14371 Apr 13 05:17	28°♑09'15					
	14371 Apr 14 06:44	0°♒		superior conj	14372 Mar 30 21:21	20°♑09'13	-0°06'35
superior conj	14371 Apr 19 00:48	8°♒08'08	-0°44'59	minimum elong	14372 Mar 30 20:49	20°♑06'46	0°06'45
minimum elong	14371 Apr 18 20:31	7°♒50'03	0°44'53	behind sun begin	14372 Mar 30 13:44	19°♑35'15	
max. Earth dist.	14371 Apr 26 00:18	19°♒39'20	1.43797 AU	behind sun end	14372 Mar 31 03:53	20°♑38'12	
	14371 May 02 12:47	0°♓			14372 Apr 05 13:14	0°♒	
evening rise	14371 May 03 10:13	1°♓23'21		max. Earth dist.	14372 Apr 07 11:58	3°♒16'58	1.41919 AU
	14371 May 22 19:13	0°☊		evening rise	14372 Apr 12 16:19	11°♒46'33	
evening max el	14371 Jun 03 09:33	14°☊21'11	21°23'19		14372 Apr 24 12:12	0°♓	
asc. node	14371 Jun 07 07:09	17°☊41'11		evening max el	14372 May 16 02:22	28°♓12'18	22°41'50
retrograde	14371 Jun 12 05:43	19°☊30'21			14372 May 17 23:59	0°☊	
evening set	14371 Jun 16 16:17	17°☊41'54		asc. node	14372 May 24 04:15	3°☊49'09	
inferior conj	14371 Jun 21 22:05	11°☊27'58	3°08'45	retrograde	14372 May 26 02:45	4°☊06'00	

evening set	14372 May 31 00:31	2°☿02'14		retrograde	14373 May 09 20:42	18°♊38'28	
	14372 Jun 02 00:37	30°♊II		asc. node	14373 May 11 01:28	18°♊32'08	
inferior conj	14372 Jun 05 07:50	25°♊39'20	2°56'25	evening set	14373 May 15 06:02	16°♊21'45	
minimum elong	14372 Jun 05 06:24	25°♊44'20	2°55'10	min. Earth dist.	14373 May 19 21:47	10°♊57'40	0.68699 AU
min. Earth dist.	14372 Jun 05 01:27	26°♊01'32	0.69000 AU	inferior conj	14373 May 20 16:51	9°♊52'55	2°33'46
morning rise	14372 Jun 10 12:08	19°♊28'44		minimum elong	14373 May 20 14:51	9°♊59'42	2°32'23
direct	14372 Jun 15 01:07	17°♊36'06		morning rise	14373 May 25 23:43	3°♊50'25	
morning max el	14372 Jun 23 22:16	22°♊45'16	21°29'25	direct	14373 May 30 00:27	2°♊18'06	
desc. node	14372 Jun 26 02:41	25°♊04'20		morning max el	14373 Jun 06 19:10	6°♊41'01	20°13'34
	14372 Jun 30 05:07	0°☿		desc. node	14373 Jun 12 23:44	13°♊54'56	
	14372 Jul 21 02:20	0°♊			14373 Jun 24 08:37	0°☿	
morning set	14372 Jul 25 14:08	7°♊00'19		morning set	14373 Jul 04 20:24	15°☿52'31	
max. Earth dist.	14372 Aug 01 03:05	17°♊31'46	1.42399 AU		14373 Jul 13 21:03	0°♊	
				max. Earth dist.	14373 Jul 14 13:22	1°♊04'58	1.44209 AU
superior conj	14372 Aug 08 14:40	0°♊06'58	-1°31'04	superior conj	14373 Jul 20 10:51	10°♊36'51	-1°59'00
minimum elong	14372 Aug 08 21:33	0°♊36'44	1°30'51	minimum elong	14373 Jul 20 17:49	11°♊05'23	1°59'23
	14372 Aug 08 13:03	0°♊			14373 Jul 31 23:14	0°♊	
evening rise	14372 Aug 19 19:15	20°♊02'37		evening rise	14373 Aug 02 08:25	2°♊23'00	
asc. node	14372 Aug 20 04:37	20°♊45'08		asc. node	14373 Aug 07 01:13	10°♊28'36	
	14372 Aug 25 08:08	0°♊		evening max el	14373 Aug 19 12:39	28°♊46'21	18°03'10
evening max el	14372 Sep 04 22:35	15°♊31'10	18°06'47		14373 Aug 20 21:24	0°♊	
retrograde	14372 Sep 11 20:49	19°♊03'45		retrograde	14373 Aug 25 23:16	2°♊07'11	
evening set	14372 Sep 14 03:19	18°♊41'15		evening set	14373 Aug 28 14:04	1°♊32'59	
inferior conj	14372 Sep 21 04:56	13°♊49'17	0°14'17		14373 Aug 31 03:01	30°♊♊	
minimum elong	14372 Sep 21 05:25	13°♊48'12	0°14'15	inferior conj	14373 Sep 04 00:02	26°♊22'05	1°25'32
transit middle	14372 Sep 21 05:25	13°♊48'12	0°14'15	minimum elong	14373 Sep 04 02:11	26°♊16'29	1°24'38
transit begin	14372 Sep 21 03:49	13°♊51'49		min. Earth dist.	14373 Sep 06 21:26	23°♊23'03	0.62260 AU
transit end	14372 Sep 21 07:00	13°♊44'35		desc. node	14373 Sep 08 20:54	21°♊32'25	
desc. node	14372 Sep 21 23:22	13°♊07'09		morning rise	14373 Sep 10 11:54	20°♊15'22	
min. Earth dist.	14372 Sep 24 10:41	10°♊53'40	0.59965 AU	direct	14373 Sep 17 04:18	17°♊51'56	
morning rise	14372 Sep 28 04:14	8°♊05'01		morning max el	14373 Oct 01 06:42	25°♊51'20	27°57'15
direct	14372 Oct 04 17:18	6°♊02'36			14373 Oct 05 03:00	0°♊	
morning max el	14372 Oct 19 00:23	13°♊53'07	27°48'58		14373 Oct 25 12:16	0°♊	
	14372 Oct 31 22:53	0°♊		asc. node	14373 Nov 03 03:15	16°♊17'14	
asc. node	14372 Nov 16 06:29	26°♊27'15		morning set	14373 Nov 04 07:03	18°♊38'20	
	14372 Nov 18 00:53	0°♊		max. Earth dist.	14373 Nov 09 15:32	29°♊57'20	1.31723 AU
morning set	14372 Nov 20 07:43	4°♊43'41			14373 Nov 09 16:01	0°♊	
max. Earth dist.	14372 Nov 26 11:20	18°♊05'55	1.31185 AU				
superior conj	14372 Nov 27 09:46	20°♊10'50	1°27'42	superior conj	14373 Nov 11 19:05	4°♊39'17	1°13'49
minimum elong	14372 Nov 27 08:01	20°♊01'07	1°28'33	minimum elong	14373 Nov 11 16:51	4°♊26'59	1°14'24
	14372 Dec 01 19:38	0°♊		evening rise	14373 Nov 18 13:02	19°♊29'26	
evening rise	14372 Dec 04 02:28	4°♊59'07			14373 Nov 23 14:01	0°♊	
	14372 Dec 17 02:37	0°♊		desc. node	14373 Dec 05 17:48	20°♊46'16	
desc. node	14372 Dec 18 20:46	2°♊50'25		evening max el	14373 Dec 13 16:12	0°♊09'23	24°25'11
evening max el	14373 Jan 01 03:17	19°♊45'22	25°56'33		14373 Dec 13 12:17	0°♊	
retrograde	14373 Jan 15 01:48	26°♊48'21		retrograde	14373 Dec 27 08:27	6°♊58'09	
evening set	14373 Jan 21 05:28	25°♊19'34		evening set	14374 Jan 01 12:57	5°♊59'07	
min. Earth dist.	14373 Jan 25 16:21	22°♊42'02	0.57683 AU	min. Earth dist.	14374 Jan 07 03:54	3°♊07'56	0.55900 AU
inferior conj	14373 Jan 28 16:20	20°♊35'00	-4°21'30	inferior conj	14374 Jan 09 10:09	1°♊44'09	-5°30'31
minimum elong	14373 Jan 29 01:14	20°♊19'16	4°18'07	minimum elong	14374 Jan 09 17:33	1°♊32'42	5°28'21
morning rise	14373 Feb 05 23:56	16°♊13'22			14374 Jan 12 08:03	30°♊☿	
direct	14373 Feb 08 00:55	16°♊00'06		morning rise	14374 Jan 18 00:06	27°♊42'49	
asc. node	14373 Feb 12 04:55	16°♊58'48		direct	14374 Jan 20 09:18	27°♊27'44	
morning max el	14373 Feb 16 15:53	20°♊13'38	18°43'53		14374 Jan 27 16:11	0°♊	
	14373 Feb 24 00:02	0°♊		asc. node	14374 Jan 30 02:18	1°♊59'01	
morning set	14373 Mar 04 19:39	16°♊11'21		morning max el	14374 Jan 30 10:55	2°♊19'30	19°44'36
	14373 Mar 11 22:50	0°♊		morning set	14374 Feb 16 23:39	0°♊43'34	
					14374 Feb 16 15:00	0°♊	
superior conj	14373 Mar 13 13:41	3°♊03'41	0°27'16	superior conj	14374 Feb 24 21:19	16°♊39'32	0°54'42
minimum elong	14373 Mar 13 15:26	3°♊11'55	0°27'01	minimum elong	14374 Feb 24 23:57	16°♊52'33	0°54'38
desc. node	14373 Mar 16 22:18	9°♊16'42		max. Earth dist.	14374 Mar 03 01:58	28°♊32'10	1.37467 AU
max. Earth dist.	14373 Mar 20 19:23	16°♊12'36	1.39730 AU	desc. node	14374 Mar 03 18:50	29°♊50'01	
evening rise	14373 Mar 24 19:27	23°♊05'25			14374 Mar 03 21:00	0°♊	
	14373 Mar 28 23:51	0°♊		evening rise	14374 Mar 06 19:03	5°♊16'33	
	14373 Apr 18 09:28	0°♊			14374 Mar 21 22:58	0°♊	
evening max el	14373 Apr 28 16:37	12°♊05'15	24°03'07				

evening max el	14374 Apr 11 06:16	25°♄59'21	25°20'11		14375 Mar 16 04:09	0°♄	
	14374 Apr 15 21:36	0°♄		evening max el	14375 Mar 24 19:57	9°♄47'59	26°25'55
retrograde	14374 Apr 23 10:24	3°♄02'15		retrograde	14375 Apr 06 18:58	17°♄09'28	
asc. node	14374 Apr 27 22:48	1°♄36'32		evening set	14375 Apr 13 02:20	14°♄37'37	
evening set	14374 Apr 29 07:14	0°♄35'44		asc. node	14375 Apr 14 20:12	13°♄01'35	
	14374 Apr 29 23:13	30°♄		min. Earth dist.	14375 Apr 17 04:28	10°♄24'58	0.66747 AU
min. Earth dist.	14374 May 03 15:32	25°♄47'57	0.67944 AU	inferior conj	14375 Apr 19 00:52	8°♄10'20	1°16'24
inferior conj	14374 May 04 23:15	24°♄05'06	2°00'37	minimum elong	14375 Apr 18 23:08	8°♄15'38	1°15'14
minimum elong	14374 May 04 21:05	24°♄12'06	1°59'13	morning rise	14375 Apr 24 20:54	2°♄28'22	
morning rise	14374 May 10 11:20	18°♄12'02		direct	14375 Apr 27 23:27	1°♄34'10	
direct	14374 May 14 00:31	16°♄59'39		morning max el	14375 May 04 10:53	5°♄00'16	18°26'21
morning max el	14374 May 20 23:38	20°♄47'35	19°11'53	desc. node	14375 May 17 17:30	23°♄11'27	
	14374 May 28 12:11	0°♄			14375 May 22 01:33	0°♄	
desc. node	14374 May 30 20:40	3°♄20'35		morning set	14375 May 24 22:25	4°♄31'56	
greatest brilliancy	14374 Jun 02 20:25	7°♄44'10	-0.7m				
morning set	14374 Jun 14 00:23	24°♄44'28		superior conj	14375 Jun 09 17:31	29°♄19'14	-2°07'52
	14374 Jun 17 10:08	0°♄		minimum elong	14375 Jun 09 11:49	28°♄56'56	2°08'40
max. Earth dist.	14374 Jun 27 05:45	15°♄17'07	1.45414 AU	max. Earth dist.	14375 Jun 10 01:25	29°♄50'02	1.45895 AU
					14375 Jun 10 03:58	0°♄	
superior conj	14374 Jun 30 08:39	20°♄12'06	-2°13'10	evening rise	14375 Jun 25 13:49	24°♄07'31	
minimum elong	14374 Jun 30 10:37	20°♄19'51	2°14'09		14375 Jun 29 07:24	0°♄	
	14374 Jul 06 12:14	0°♄		greatest brilliancy	14375 Jul 04 17:12	8°♄27'23	-0.8m
evening rise	14374 Jul 14 23:30	13°♄46'09		asc. node	14375 Jul 11 18:41	18°♄57'06	
asc. node	14374 Jul 24 21:55	29°♄54'48		evening max el	14375 Jul 17 14:38	26°♄04'11	18°50'04
	14374 Jul 24 23:14	0°♄		retrograde	14375 Jul 24 06:45	29°♄43'01	
evening max el	14374 Aug 03 03:00	12°♄19'59	18°17'50	evening set	14375 Jul 27 15:10	28°♄38'22	
retrograde	14374 Aug 09 11:52	15°♄43'07		inferior conj	14375 Aug 02 04:34	22°♄55'50	2°48'34
evening set	14374 Aug 12 11:19	14°♄54'33		minimum elong	14375 Aug 02 06:26	22°♄49'59	2°47'31
inferior conj	14374 Aug 18 09:10	9°♄26'48	2°16'00	min. Earth dist.	14375 Aug 03 22:59	20°♄42'44	0.66184 AU
minimum elong	14374 Aug 18 11:35	9°♄19'50	2°14'55	morning rise	14375 Aug 07 20:51	16°♄30'57	
min. Earth dist.	14374 Aug 20 17:48	6°♄43'40	0.64386 AU	desc. node	14375 Aug 13 15:55	13°♄52'45	
morning rise	14374 Aug 24 10:22	3°♄07'12		direct	14375 Aug 14 03:27	13°♄51'54	
desc. node	14374 Aug 26 18:26	1°♄35'10		morning max el	14375 Aug 27 04:16	21°♄35'57	26°32'07
direct	14374 Aug 31 00:05	0°♄31'21			14375 Sep 03 12:06	0°♄	
morning max el	14374 Sep 13 16:50	8°♄29'26	27°29'17		14375 Sep 23 15:14	0°♄	
	14374 Sep 30 10:18	0°♄		morning set	14375 Oct 02 01:03	15°♄03'14	
	14374 Oct 17 19:53	0°♄		max. Earth dist.	14375 Oct 06 00:17	22°♄42'52	1.34426 AU
morning set	14374 Oct 18 21:51	2°♄07'08		asc. node	14375 Oct 07 20:35	26°♄23'57	
asc. node	14374 Oct 20 23:57	6°♄17'34			14375 Oct 09 15:05	0°♄	
max. Earth dist.	14374 Oct 23 12:41	11°♄29'38	1.32813 AU				
				superior conj	14375 Oct 10 23:16	2°♄45'54	0°28'46
superior conj	14374 Oct 27 00:23	18°♄52'57	0°54'07	minimum elong	14375 Oct 10 21:46	2°♄38'08	0°28'58
minimum elong	14374 Oct 26 22:10	18°♄41'03	0°54'26	evening rise	14375 Oct 18 09:33	18°♄23'11	
	14374 Nov 01 03:37	0°♄			14375 Oct 24 03:18	0°♄	
evening rise	14374 Nov 03 00:02	3°♄59'03		evening max el	14375 Nov 06 18:33	20°♄20'19	21°06'16
	14374 Nov 16 22:10	0°♄		desc. node	14375 Nov 09 12:11	22°♄44'22	
desc. node	14374 Nov 22 14:57	7°♄32'05		retrograde	14375 Nov 18 12:56	26°♄10'57	
evening max el	14374 Nov 25 02:02	10°♄08'04	22°42'26	evening set	14375 Nov 21 03:47	25°♄54'48	
retrograde	14374 Dec 08 02:06	16°♄34'59		inferior conj	14375 Nov 30 00:49	22°♄01'56	-5°28'37
evening set	14374 Dec 11 23:02	16°♄02'16		minimum elong	14375 Nov 29 16:31	22°♄13'41	5°26'06
min. Earth dist.	14374 Dec 19 10:27	12°♄38'15	0.54758 AU	min. Earth dist.	14375 Nov 30 16:13	21°♄40'07	0.54483 AU
inferior conj	14374 Dec 20 09:36	12°♄05'30	-5°59'09	morning rise	14375 Dec 08 05:40	18°♄10'36	
minimum elong	14374 Dec 20 09:32	12°♄05'36	5°58'07	direct	14375 Dec 12 07:34	17°♄34'52	
morning rise	14374 Dec 28 21:19	8°♄17'32		morning max el	14375 Dec 25 06:53	23°♄51'06	22°51'10
direct	14375 Jan 01 00:16	7°♄55'11			14375 Dec 30 18:09	0°♄	
morning max el	14375 Jan 12 15:25	13°♄29'37	21°08'30	asc. node	14376 Jan 03 20:53	5°♄51'24	
asc. node	14375 Jan 16 23:38	18°♄22'19		morning set	14376 Jan 16 19:44	0°♄10'51	
	14375 Jan 24 11:46	0°♄			14376 Jan 16 17:41	0°♄	
morning set	14375 Feb 01 08:26	15°♄25'34					
	14375 Feb 08 07:31	0°♄		superior conj	14376 Jan 23 18:39	15°♄08'38	1°29'05
				minimum elong	14376 Jan 23 20:25	15°♄18'08	1°29'46
superior conj	14375 Feb 08 16:05	0°♄44'13	1°15'16	max. Earth dist.	14376 Jan 27 04:06	22°♄18'29	1.33586 AU
minimum elong	14375 Feb 08 18:35	0°♄57'09	1°15'33		14376 Jan 30 22:56	0°♄	
max. Earth dist.	14375 Feb 13 11:43	10°♄28'02	1.35356 AU	evening rise	14376 Jan 31 18:25	1°♄36'08	
evening rise	14375 Feb 17 11:52	18°♄09'39		desc. node	14376 Feb 05 11:58	10°♄34'49	
desc. node	14375 Feb 18 15:22	20°♄17'25			14376 Feb 17 01:26	0°♄	
	14375 Feb 24 02:20	0°♄		evening max el	14376 Mar 06 09:24	23°♄22'27	27°12'54

	14376 Mar 15 17:18	0°♄			14377 Jan 07 05:07	0°♁	
retrograde	14376 Mar 19 21:38	0°♄51'41		max. Earth dist.	14377 Jan 09 03:59	4°♁15'36	1.32262 AU
	14376 Mar 23 19:45	30°♄♂		evening rise	14377 Jan 14 11:28	15°♁27'54	
evening set	14376 Mar 26 13:18	28°♄20'25		desc. node	14377 Jan 22 08:37	0°♄36'59	
min. Earth dist.	14376 Mar 30 10:37	24°♄40'32	0.65148 AU		14377 Jan 22 00:26	0°♄	
asc. node	14376 Mar 31 17:38	23°♄14'56			14377 Feb 10 20:34	0°♄	
inferior conj	14376 Apr 01 19:19	22°♄02'59	0°20'19	evening max el	14377 Feb 16 21:20	6°♄31'54	27°34'05
minimum elong	14376 Apr 01 18:46	22°♄04'33	0°19'48	retrograde	14377 Mar 02 17:24	13°♄59'28	
morning rise	14376 Apr 08 01:58	16°♄33'59		evening set	14377 Mar 09 13:47	11°♄36'13	
direct	14376 Apr 10 18:58	15°♄55'08		min. Earth dist.	14377 Mar 13 08:16	8°♄24'54	0.63217 AU
morning max el	14376 Apr 17 02:48	19°♄12'09	17°57'42	inferior conj	14377 Mar 16 03:47	5°♄36'16	-0°47'58
	14376 Apr 25 07:49	0°♄		minimum elong	14377 Mar 16 05:20	5°♄32'21	0°47'20
desc. node	14376 May 03 14:14	13°♄20'32		asc. node	14377 Mar 18 15:05	3°♄14'15	
morning set	14376 May 05 00:08	15°♄40'00		morning rise	14377 Mar 22 23:28	0°♄22'37	
	14376 May 13 19:09	0°♄			14377 Mar 24 09:32	30°♄♂	
				direct	14377 Mar 25 08:22	29°♄55'36	
superior conj	14376 May 19 06:27	8°♄43'50	-1°43'41		14377 Mar 26 07:07	0°♄	
minimum elong	14376 May 18 21:28	8°♄08'16	1°43'46	morning max el	14377 Mar 31 20:32	3°♄14'54	17°46'24
max. Earth dist.	14376 May 22 21:28	14°♄26'23	1.45624 AU	morning set	14377 Apr 17 03:55	28°♄02'49	
	14376 Jun 01 22:01	0°♄			14377 Apr 18 07:06	0°♄	
evening rise	14376 Jun 04 07:41	3°♄41'45		desc. node	14377 Apr 20 10:52	3°♄42'31	
greatest brilliancy	14376 Jun 18 04:40	24°♄40'32	-0.6m				
	14376 Jun 21 21:45	0°♄		superior conj	14377 Apr 29 13:59	19°♄02'43	-1°07'42
asc. node	14376 Jun 27 15:31	7°♄26'47		minimum elong	14377 Apr 29 07:19	18°♄35'23	1°07'30
evening max el	14376 Jun 29 21:26	9°♄53'01	19°38'44	max. Earth dist.	14377 May 05 15:35	28°♄51'11	1.44641 AU
retrograde	14376 Jul 07 04:49	13°♄59'45			14377 May 06 08:53	0°♄	
evening set	14376 Jul 10 22:48	12°♄38'09		evening rise	14377 May 14 18:40	13°♄06'54	
inferior conj	14376 Jul 16 07:02	6°♄42'23	3°06'10		14377 May 25 24:00	0°♄	
minimum elong	14376 Jul 16 07:59	6°♄39'14	3°05'10	evening max el	14377 Jun 12 22:27	23°♄43'57	20°41'50
min. Earth dist.	14376 Jul 17 11:11	5°♄08'34	0.67576 AU	asc. node	14377 Jun 14 12:28	25°♄13'23	
morning rise	14376 Jul 21 16:42	0°♄17'45		retrograde	14377 Jun 21 03:47	28°♄28'22	
	14376 Jul 22 00:54	30°♄♂		evening set	14377 Jun 25 08:03	26°♄49'40	
direct	14376 Jul 27 13:18	27°♄44'00		inferior conj	14377 Jun 30 14:02	20°♄42'06	3°11'02
desc. node	14376 Jul 30 13:20	28°♄18'07		minimum elong	14377 Jun 30 13:58	20°♄42'19	3°10'01
	14376 Aug 02 19:29	0°♄		min. Earth dist.	14377 Jul 01 04:24	19°♄52'32	0.68511 AU
morning max el	14376 Aug 08 15:10	4°♄58'26	25°14'40	morning rise	14377 Jul 05 19:36	14°♄21'23	
	14376 Aug 27 21:52	0°♄		direct	14377 Jul 11 04:29	11°♄59'59	
morning set	14376 Sep 13 12:42	27°♄16'21		desc. node	14377 Jul 17 10:40	14°♄27'29	
	14376 Sep 15 00:57	0°♄		morning max el	14377 Jul 22 01:35	18°♄30'07	23°46'48
max. Earth dist.	14376 Sep 17 02:26	3°♄47'45	1.36486 AU		14377 Jul 31 17:44	0°♄	
					14377 Aug 20 23:58	0°♄	
superior conj	14376 Sep 23 12:45	16°♄10'02	-0°01'42	morning set	14377 Aug 26 04:26	8°♄36'21	
minimum elong	14376 Sep 23 12:51	16°♄10'28	0°01'30	max. Earth dist.	14377 Aug 30 00:15	15°♄13'05	1.38824 AU
behind sun begin	14376 Sep 23 06:28	15°♄38'52					
behind sun end	14376 Sep 23 19:13	16°♄42'09		superior conj	14377 Sep 06 13:19	28°♄57'27	-0°35'59
asc. node	14376 Sep 23 17:10	16°♄31'55		minimum elong	14377 Sep 06 15:53	29°♄09'36	0°35'39
	14376 Sep 30 08:51	0°♄			14377 Sep 07 02:34	0°♄	
evening rise	14376 Oct 01 15:17	2°♄35'06		asc. node	14377 Sep 10 13:41	6°♄37'56	
	14376 Oct 17 20:20	0°♄		evening rise	14377 Sep 15 14:41	16°♄28'42	
evening max el	14376 Oct 19 00:41	1°♄14'49	19°48'16		14377 Sep 22 18:28	0°♄	
desc. node	14376 Oct 26 09:32	5°♄56'10		evening max el	14377 Oct 01 20:40	12°♄58'55	18°52'06
retrograde	14376 Oct 29 04:00	6°♄18'13		retrograde	14377 Oct 10 10:25	17°♄17'34	
evening set	14376 Oct 31 02:58	6°♄07'47		evening set	14377 Oct 12 07:39	17°♄05'52	
inferior conj	14376 Nov 08 22:18	2°♄06'34	-4°05'24	desc. node	14377 Oct 13 06:55	16°♄51'10	
minimum elong	14376 Nov 08 12:34	2°♄21'37	4°01'26	inferior conj	14377 Oct 20 13:31	12°♄46'41	-2°18'40
min. Earth dist.	14376 Nov 11 00:25	0°♄49'09	0.55150 AU	minimum elong	14377 Oct 20 07:43	12°♄57'00	2°15'47
	14376 Nov 12 09:33	30°♄♄		min. Earth dist.	14377 Oct 23 13:21	10°♄39'10	0.56638 AU
morning rise	14376 Nov 16 20:37	27°♄51'47		morning rise	14377 Oct 28 04:43	7°♄56'29	
direct	14376 Nov 21 21:04	26°♄56'13		direct	14377 Nov 02 23:58	6°♄35'59	
	14376 Nov 30 23:04	0°♄		morning max el	14377 Nov 17 04:19	13°♄55'11	26°17'43
morning max el	14376 Dec 05 16:18	3°♄48'06	24°40'21		14377 Nov 29 22:11	0°♄	
asc. node	14376 Dec 20 18:01	24°♄10'09		asc. node	14377 Dec 07 15:02	13°♄06'00	
	14376 Dec 23 23:25	0°♄		morning set	14377 Dec 15 18:24	29°♄29'34	
morning set	14376 Dec 31 07:38	14°♄53'45			14377 Dec 16 00:03	0°♄	
superior conj	14377 Jan 07 02:20	29°♄44'42	1°36'29	superior conj	14377 Dec 22 12:56	14°♄26'00	1°37'45
minimum elong	14377 Jan 07 03:06	29°♄48'52	1°37'26	minimum elong	14377 Dec 22 12:37	14°♄24'13	1°38'47

max. Earth dist.	14377 Dec 23 09:41	16° $\text{♁}$ 21'30	1.31437 AU		14378 Dec 07 10:00	0° $\text{♁}$	
evening rise	14377 Dec 29 12:15	29° $\text{♁}$ 37'58		evening rise	14378 Dec 13 18:27	14° $\text{♁}$ 00'30	
	14377 Dec 29 16:27	0° $\text{♁}$			14378 Dec 21 17:11	0° $\text{♁}$	
desc. node	14378 Jan 09 05:20	20° $\text{♁}$ 17'16		desc. node	14378 Dec 27 02:10	9° $\text{♁}$ 27'16	
	14378 Jan 15 03:15	0° $\text{♁}$			14379 Jan 11 11:53	0° $\text{♁}$	
evening max el	14378 Jan 30 05:31	19° $\text{♁}$ 03'41	27°23'21	evening max el	14379 Jan 12 07:08	0° $\text{♁}$ 46'36	26°37'43
retrograde	14378 Feb 13 04:49	26° $\text{♁}$ 22'58		retrograde	14379 Jan 26 06:20	7° $\text{♁}$ 55'17	
evening set	14378 Feb 20 00:48	24° $\text{♁}$ 15'28		evening set	14379 Feb 01 18:50	6° $\text{♁}$ 10'33	
min. Earth dist.	14378 Feb 23 19:53	21° $\text{♁}$ 26'12	0.61075 AU	min. Earth dist.	14379 Feb 05 20:52	3° $\text{♁}$ 33'09	0.58884 AU
inferior conj	14378 Feb 26 22:51	18° $\text{♁}$ 41'03	-2°07'24	inferior conj	14379 Feb 09 00:55	1° $\text{♁}$ 07'38	-3°33'12
minimum elong	14378 Feb 27 03:26	18° $\text{♁}$ 30'56	2°05'16	minimum elong	14379 Feb 09 08:41	0° $\text{♁}$ 52'44	3°29'55
asc. node	14378 Mar 05 12:34	14° $\text{♁}$ 03'31			14379 Feb 10 12:43	30° $\text{♁}$	
morning rise	14378 Mar 06 09:12	13° $\text{♁}$ 45'35		morning rise	14379 Feb 17 01:41	26° $\text{♁}$ 33'17	
direct	14378 Mar 08 12:07	13° $\text{♁}$ 26'41		direct	14379 Feb 19 02:00	26° $\text{♁}$ 18'56	
morning max el	14378 Mar 15 12:50	16° $\text{♁}$ 58'48	17°53'09	asc. node	14379 Feb 20 10:02	26° $\text{♁}$ 25'30	
	14378 Mar 24 18:23	0° $\text{♁}$			14379 Feb 26 18:19	0° $\text{♁}$	
morning set	14378 Mar 31 03:44	11° $\text{♁}$ 21'22		morning max el	14379 Feb 27 00:08	0° $\text{♁}$ 14'02	18°19'21
desc. node	14378 Apr 07 07:26	24° $\text{♁}$ 12'22		morning set	14379 Mar 14 17:52	25° $\text{♁}$ 18'43	
					14379 Mar 17 05:07	0° $\text{♁}$	
superior conj	14378 Apr 10 21:18	0° $\text{♁}$ 27'12	-0°28'19	superior conj	14379 Mar 24 02:52	12° $\text{♁}$ 52'45	0°08'31
minimum elong	14378 Apr 10 18:44	0° $\text{♁}$ 16'08	0°28'20	minimum elong	14379 Mar 24 03:29	12° $\text{♁}$ 55'33	0°08'16
	14378 Apr 10 15:00	0° $\text{♁}$		behind sun begin	14379 Mar 23 21:09	12° $\text{♁}$ 26'40	
max. Earth dist.	14378 Apr 18 06:17	12° $\text{♁}$ 50'51	1.43050 AU	behind sun end	14379 Mar 24 09:49	13° $\text{♁}$ 24'22	
evening rise	14378 Apr 24 14:41	23° $\text{♁}$ 01'59		desc. node	14379 Mar 25 03:59	14° $\text{♁}$ 46'34	
	14378 Apr 29 02:31	0° $\text{♁}$		max. Earth dist.	14379 Mar 31 16:33	26° $\text{♁}$ 13'23	1.41016 AU
	14378 May 20 03:53	0° $\text{♁}$			14379 Apr 02 22:16	0° $\text{♁}$	
evening max el	14378 May 26 17:58	7° $\text{♁}$ 35'02	21°56'02	evening rise	14379 Apr 05 05:35	3° $\text{♁}$ 48'46	
asc. node	14378 Jun 01 09:32	12° $\text{♁}$ 02'01			14379 Apr 22 08:40	0° $\text{♁}$	
retrograde	14378 Jun 05 01:50	13° $\text{♁}$ 02'44		evening max el	14379 May 09 09:29	21° $\text{♁}$ 26'53	23°16'24
evening set	14378 Jun 09 17:08	11° $\text{♁}$ 07'38		asc. node	14379 May 19 06:41	27° $\text{♁}$ 36'02	
inferior conj	14378 Jun 14 23:20	4° $\text{♁}$ 49'52	3°04'45	retrograde	14379 May 19 21:37	27° $\text{♁}$ 37'46	
minimum elong	14378 Jun 14 22:21	4° $\text{♁}$ 53'18	3°03'36	evening set	14379 May 25 00:25	25° $\text{♁}$ 27'57	
min. Earth dist.	14378 Jun 15 00:24	4° $\text{♁}$ 46'08	0.68966 AU	inferior conj	14379 May 30 09:00	19° $\text{♁}$ 02'13	2°48'02
	14378 Jun 18 16:57	30° $\text{♁}$		minimum elong	14379 May 30 07:17	19° $\text{♁}$ 08'08	2°46'44
morning rise	14378 Jun 20 03:22	28° $\text{♁}$ 35'18		min. Earth dist.	14379 May 29 21:09	19° $\text{♁}$ 43'06	0.68936 AU
direct	14378 Jun 24 23:43	26° $\text{♁}$ 31'17		morning rise	14379 Jun 04 14:06	12° $\text{♁}$ 55'11	
	14378 Jul 02 06:09	0° $\text{♁}$		direct	14379 Jun 08 21:50	11° $\text{♁}$ 11'11	
desc. node	14378 Jul 04 07:54	1° $\text{♁}$ 54'45		morning max el	14379 Jun 17 06:56	15° $\text{♁}$ 59'06	20°55'40
morning max el	14378 Jul 04 13:47	2° $\text{♁}$ 09'23	22°17'54	desc. node	14379 Jun 21 05:03	20° $\text{♁}$ 19'34	
	14378 Jul 25 16:08	0° $\text{♁}$			14379 Jun 28 13:53	0° $\text{♁}$	
morning set	14378 Aug 06 20:18	18° $\text{♁}$ 53'33		morning set	14379 Jul 17 12:31	28° $\text{♁}$ 10'23	
max. Earth dist.	14378 Aug 12 00:49	27° $\text{♁}$ 26'09	1.41169 AU		14379 Jul 18 16:36	0° $\text{♁}$	
	14378 Aug 13 13:17	0° $\text{♁}$		max. Earth dist.	14379 Jul 25 07:44	10° $\text{♁}$ 33'27	1.43236 AU
superior conj	14378 Aug 19 20:40	10° $\text{♁}$ 58'02	-1°11'35	superior conj	14379 Aug 01 06:30	22° $\text{♁}$ 02'14	-1°44'08
minimum elong	14378 Aug 20 02:11	11° $\text{♁}$ 22'38	1°11'13	minimum elong	14379 Aug 01 13:55	22° $\text{♁}$ 33'31	1°44'06
asc. node	14378 Aug 28 10:14	26° $\text{♁}$ 38'33			14379 Aug 05 22:19	0° $\text{♁}$	
evening rise	14378 Aug 30 04:20	29° $\text{♁}$ 55'12		evening rise	14379 Aug 13 03:57	12° $\text{♁}$ 43'47	
	14378 Aug 30 05:22	0° $\text{♁}$		asc. node	14379 Aug 15 06:49	16° $\text{♁}$ 29'41	
evening max el	14378 Sep 15 02:55	25° $\text{♁}$ 26'04	18°17'26		14379 Aug 23 05:12	0° $\text{♁}$	
retrograde	14378 Sep 22 12:21	29° $\text{♁}$ 11'33		evening max el	14379 Aug 29 15:14	8° $\text{♁}$ 26'25	18°02'53
evening set	14378 Sep 24 14:44	28° $\text{♁}$ 54'02		retrograde	14379 Sep 05 07:21	11° $\text{♁}$ 52'34	
desc. node	14378 Sep 30 04:22	25° $\text{♁}$ 47'06		evening set	14379 Sep 07 17:15	11° $\text{♁}$ 25'29	
inferior conj	14378 Oct 02 02:32	24° $\text{♁}$ 13'31	-0°36'31	inferior conj	14379 Sep 14 11:47	6° $\text{♁}$ 24'52	0°47'09
minimum elong	14378 Oct 02 01:11	24° $\text{♁}$ 16'19	0°35'38	minimum elong	14379 Sep 14 13:11	6° $\text{♁}$ 21'29	0°46'39
min. Earth dist.	14378 Oct 05 09:22	21° $\text{♁}$ 30'01	0.58671 AU	desc. node	14379 Sep 17 01:54	3° $\text{♁}$ 54'56	
morning rise	14378 Oct 09 08:12	18° $\text{♁}$ 47'04		min. Earth dist.	14379 Sep 17 14:36	3° $\text{♁}$ 25'24	0.60945 AU
direct	14378 Oct 15 16:31	16° $\text{♁}$ 59'47		morning rise	14379 Sep 21 06:11	0° $\text{♁}$ 29'38	
morning max el	14378 Oct 29 23:53	24° $\text{♁}$ 40'02	27°26'30		14379 Sep 22 01:15	30° $\text{♁}$	
	14378 Nov 03 21:32	0° $\text{♁}$		direct	14379 Sep 27 21:16	28° $\text{♁}$ 17'44	
	14378 Nov 23 04:55	0° $\text{♁}$			14379 Oct 04 02:08	0° $\text{♁}$	
asc. node	14378 Nov 24 11:57	2° $\text{♁}$ 29'07		morning max el	14379 Oct 12 03:09	6° $\text{♁}$ 13'00	27°57'22
morning set	14378 Nov 30 02:20	13° $\text{♁}$ 54'01			14379 Oct 30 01:46	0° $\text{♁}$	
max. Earth dist.	14378 Dec 06 18:00	28° $\text{♁}$ 30'27	1.31127 AU	asc. node	14379 Nov 11 08:47	22° $\text{♁}$ 11'15	
superior conj	14378 Dec 07 00:31	29° $\text{♁}$ 06'58	1°33'04	morning set	14379 Nov 14 05:27	28° $\text{♁}$ 01'21	
minimum elong	14378 Dec 06 23:14	28° $\text{♁}$ 59'45	1°34'01		14379 Nov 15 04:07	0° $\text{♁}$	

max. Earth dist.	14379 Nov 20 00:54	10° $\text{♁}$ 31'25	1.31348 AU	max. Earth dist.	14380 Nov 02 02:30	22° $\text{♁}$ 15'34	1.32118 AU
superior conj	14379 Nov 21 11:13	13° $\text{♁}$ 41'29	1°22'32	superior conj	14380 Nov 04 19:06	28° $\text{♁}$ 04'40	1°06'10
minimum elong	14379 Nov 21 09:13	13° $\text{♁}$ 30'21	1°23'16	minimum elong	14380 Nov 04 16:48	27° $\text{♁}$ 52'07	1°06'38
evening rise	14379 Nov 28 03:57	28° $\text{♁}$ 29'14			14380 Nov 05 16:13	0° $\text{♁}$	
	14379 Nov 28 20:49	0° $\text{♁}$		evening rise	14380 Nov 11 14:56	12° $\text{♁}$ 59'56	
desc. node	14379 Dec 13 23:07	27° $\text{♁}$ 54'36			14380 Nov 20 01:29	0° $\text{♁}$	
	14379 Dec 15 09:03	0° $\text{♁}$		desc. node	14380 Nov 29 20:10	15° $\text{♁}$ 23'28	
evening max el	14379 Dec 25 00:07	11° $\text{♁}$ 35'40	25°20'06	evening max el	14380 Dec 05 10:34	21° $\text{♁}$ 44'23	23°41'41
retrograde	14380 Jan 07 20:31	18° $\text{♁}$ 33'24		retrograde	14380 Dec 18 21:54	28° $\text{♁}$ 26'03	
evening set	14380 Jan 13 15:52	17° $\text{♁}$ 16'51		evening set	14380 Dec 23 13:27	27° $\text{♁}$ 39'05	
min. Earth dist.	14380 Jan 18 12:22	14° $\text{♁}$ 36'02	0.56867 AU	min. Earth dist.	14380 Dec 29 21:29	24° $\text{♁}$ 35'59	0.55320 AU
inferior conj	14380 Jan 21 06:45	12° $\text{♁}$ 45'49	-4°54'01	inferior conj	14380 Dec 31 16:01	23° $\text{♁}$ 33'06	-5°49'05
minimum elong	14380 Jan 21 15:43	12° $\text{♁}$ 30'55	4°50'58	minimum elong	14380 Dec 31 20:53	23° $\text{♁}$ 25'54	5°47'37
morning rise	14380 Jan 29 18:09	8° $\text{♁}$ 33'38		morning rise	14381 Jan 09 06:02	19° $\text{♁}$ 38'51	
direct	14380 Jan 31 21:32	8° $\text{♁}$ 20'10		direct	14381 Jan 11 21:25	19° $\text{♁}$ 21'36	
asc. node	14380 Feb 07 07:28	10° $\text{♁}$ 30'05		morning max el	14381 Jan 22 15:28	24° $\text{♁}$ 31'32	20°17'33
morning max el	14380 Feb 10 02:20	12° $\text{♁}$ 48'33	19°06'56	asc. node	14381 Jan 24 04:51	26° $\text{♁}$ 07'43	
	14380 Feb 21 17:35	0° $\text{♁}$			14381 Jan 27 08:33	0° $\text{♁}$	
morning set	14380 Feb 26 17:46	9° $\text{♁}$ 40'43		morning set	14381 Feb 10 00:03	24° $\text{♁}$ 17'31	
					14381 Feb 12 18:35	0° $\text{♁}$	
superior conj	14380 Mar 06 02:17	26° $\text{♁}$ 06'28	0°39'43	superior conj	14381 Feb 17 15:05	9° $\text{♁}$ 55'45	1°04'14
minimum elong	14380 Mar 06 04:33	26° $\text{♁}$ 17'24	0°39'31	minimum elong	14381 Feb 17 17:45	10° $\text{♁}$ 09'14	1°04'20
	14380 Mar 08 03:22	0° $\text{♁}$		max. Earth dist.	14381 Feb 23 05:58	20° $\text{♁}$ 57'04	1.36534 AU
desc. node	14380 Mar 11 00:29	5° $\text{♁}$ 21'02		desc. node	14381 Feb 25 21:00	25° $\text{♁}$ 52'13	
max. Earth dist.	14380 Mar 12 23:05	8° $\text{♁}$ 52'07	1.38759 AU	evening rise	14381 Feb 27 00:58	28° $\text{♁}$ 00'12	
evening rise	14380 Mar 16 17:39	15° $\text{♁}$ 30'12			14381 Feb 28 03:31	0° $\text{♁}$	
	14380 Mar 25 12:55	0° $\text{♁}$			14381 Mar 18 21:20	0° $\text{♁}$	
	14380 Apr 16 01:22	0° $\text{♁}$		evening max el	14381 Apr 03 12:35	19° $\text{♁}$ 11'55	25°50'03
evening max el	14380 Apr 20 23:06	5° $\text{♁}$ 19'51	24°36'46	retrograde	14381 Apr 16 01:49	26° $\text{♁}$ 24'59	
retrograde	14380 May 02 13:59	12° $\text{♁}$ 07'34		evening set	14381 Apr 22 03:11	23° $\text{♁}$ 55'33	
asc. node	14380 May 05 03:58	11° $\text{♁}$ 38'35		asc. node	14381 Apr 22 01:20	23° $\text{♁}$ 59'24	
evening set	14380 May 08 04:21	9° $\text{♁}$ 45'54		min. Earth dist.	14381 Apr 26 08:39	19° $\text{♁}$ 22'46	0.67478 AU
min. Earth dist.	14380 May 12 16:37	4° $\text{♁}$ 37'32	0.68430 AU	inferior conj	14381 Apr 27 21:47	17° $\text{♁}$ 25'20	1°43'18
inferior conj	14380 May 13 17:09	3° $\text{♁}$ 15'35	2°21'02	minimum elong	14381 Apr 27 19:44	17° $\text{♁}$ 31'51	1°41'56
minimum elong	14380 May 13 15:02	3° $\text{♁}$ 22'40	2°19'37	morning rise	14381 May 03 12:54	11° $\text{♁}$ 36'41	
	14380 May 16 06:29	30° $\text{♁}$		direct	14381 May 06 21:21	10° $\text{♁}$ 32'27	
morning rise	14380 May 19 01:56	27° $\text{♁}$ 17'06		morning max el	14381 May 13 14:41	14° $\text{♁}$ 09'57	18°50'27
direct	14380 May 22 21:34	25° $\text{♁}$ 53'38		desc. node	14381 May 24 22:59	29° $\text{♁}$ 03'52	
	14380 May 30 07:03	0° $\text{♁}$			14381 May 25 13:57	0° $\text{♁}$	
morning max el	14380 May 30 07:10	0° $\text{♁}$ 00'16	19°45'30	greatest brilliancy	14381 May 27 07:55	2° $\text{♁}$ 38'54	-0.8m
desc. node	14380 Jun 07 02:05	9° $\text{♁}$ 26'30		morning set	14381 Jun 05 00:41	16° $\text{♁}$ 04'45	
greatest brilliancy	14380 Jun 12 05:33	16° $\text{♁}$ 44'37	-0.6m		14381 Jun 13 23:28	0° $\text{♁}$	
	14380 Jun 21 02:25	0° $\text{♁}$		max. Earth dist.	14381 Jun 19 14:16	8° $\text{♁}$ 45'41	1.45702 AU
morning set	14380 Jun 25 15:15	6° $\text{♁}$ 55'39					
max. Earth dist.	14380 Jul 06 20:45	24° $\text{♁}$ 24'51	1.44795 AU	superior conj	14381 Jun 21 07:12	11° $\text{♁}$ 25'49	-2°13'27
	14380 Jul 10 08:58	0° $\text{♁}$		minimum elong	14381 Jun 21 05:49	11° $\text{♁}$ 20'23	2°14'29
					14381 Jul 03 00:47	0° $\text{♁}$	
superior conj	14380 Jul 11 16:38	2° $\text{♁}$ 07'11	-2°07'08	evening rise	14381 Jul 06 12:53	5° $\text{♁}$ 03'41	
minimum elong	14380 Jul 11 22:08	2° $\text{♁}$ 29'20	2°07'48	asc. node	14381 Jul 19 00:10	25° $\text{♁}$ 23'51	
evening rise	14380 Jul 25 08:22	24° $\text{♁}$ 41'42			14381 Jul 22 05:05	0° $\text{♁}$	
	14380 Jul 28 11:45	0° $\text{♁}$		evening max el	14381 Jul 26 19:20	5° $\text{♁}$ 29'41	18°29'31
asc. node	14380 Aug 01 03:27	6° $\text{♁}$ 06'54		retrograde	14381 Aug 02 06:18	8° $\text{♁}$ 57'52	
evening max el	14380 Aug 12 05:49	21° $\text{♁}$ 50'41	18°07'13	evening set	14381 Aug 05 09:28	8° $\text{♁}$ 02'46	
retrograde	14380 Aug 18 14:44	25° $\text{♁}$ 11'13		inferior conj	14381 Aug 11 03:20	2° $\text{♁}$ 28'50	2°31'47
evening set	14380 Aug 21 09:03	24° $\text{♁}$ 31'21		minimum elong	14381 Aug 11 05:34	2° $\text{♁}$ 22'05	2°30'42
inferior conj	14380 Aug 27 13:25	19° $\text{♁}$ 13'06	1°49'17		14381 Aug 13 04:59	30° $\text{♁}$	
minimum elong	14380 Aug 27 15:49	19° $\text{♁}$ 06'33	1°48'15	min. Earth dist.	14381 Aug 13 06:06	29° $\text{♁}$ 56'44	0.65196 AU
min. Earth dist.	14380 Aug 30 05:46	16° $\text{♁}$ 18'30	0.63187 AU	morning rise	14381 Aug 17 00:28	26° $\text{♁}$ 06'10	
morning rise	14380 Sep 02 20:33	12° $\text{♁}$ 59'30		desc. node	14381 Aug 20 20:58	23° $\text{♁}$ 52'30	
desc. node	14380 Sep 02 23:26	12° $\text{♁}$ 54'06		direct	14381 Aug 23 11:45	23° $\text{♁}$ 27'29	
direct	14380 Sep 09 12:19	10° $\text{♁}$ 29'33			14381 Sep 04 12:58	0° $\text{♁}$	
morning max el	14380 Sep 23 11:40	18° $\text{♁}$ 30'45	27°49'28	morning max el	14381 Sep 05 22:28	1° $\text{♁}$ 21'52	27°07'58
	14380 Oct 03 04:29	0° $\text{♁}$			14381 Sep 27 07:26	0° $\text{♁}$	
	14380 Oct 21 23:18	0° $\text{♁}$		morning set	14381 Oct 11 11:47	25° $\text{♁}$ 02'18	
morning set	14380 Oct 28 01:32	11° $\text{♁}$ 46'27			14381 Oct 14 00:19	0° $\text{♁}$	
asc. node	14380 Oct 28 05:32	12° $\text{♁}$ 06'38					

asc. node	14381 Oct 15 02:11	2°♍10'02			14382 Sep 20 02:26	0°♊	
max. Earth dist.	14381 Oct 15 19:24	3°♍37'29	1.33435 AU	morning set	14382 Sep 24 08:49	7°♊40'51	
				max. Earth dist.	14382 Sep 28 02:33	14°♊43'57	1.35259 AU
superior conj	14381 Oct 19 22:00	12°♍10'29	0°44'02	asc. node	14382 Oct 01 22:46	22°♊17'23	
minimum elong	14381 Oct 19 19:59	11°♍59'50	0°44'18				
evening rise	14381 Oct 27 01:31	27°♍27'39		superior conj	14382 Oct 03 17:16	25°♊52'10	0°16'26
	14381 Oct 28 06:23	0°♊		minimum elong	14382 Oct 03 16:20	25°♊47'23	0°16'37
	14381 Nov 15 05:50	0°♊			14382 Oct 05 17:36	0°♍	
desc. node	14381 Nov 16 17:20	1°♊33'01		evening rise	14382 Oct 11 09:41	11°♍47'15	
evening max el	14381 Nov 16 22:13	1°♊45'04	21°59'55		14382 Oct 20 20:41	0°♊	
retrograde	14381 Nov 29 11:27	7°♊57'55		evening max el	14382 Oct 29 20:08	12°♊13'13	20°30'31
evening set	14381 Dec 02 18:19	7°♊33'55		desc. node	14382 Nov 03 14:37	15°♊57'25	
inferior conj	14381 Dec 11 10:23	3°♊40'49	-5°53'47	retrograde	14382 Nov 09 22:02	17°♊43'50	
minimum elong	14381 Dec 11 06:20	3°♊46'29	5°52'24	evening set	14382 Nov 12 04:22	17°♊31'05	
min. Earth dist.	14381 Dec 11 03:36	3°♊50'19	0.54527 AU	inferior conj	14382 Nov 21 02:25	13°♊36'15	-4°58'16
	14381 Dec 19 09:29	30°♋♊		minimum elong	14382 Nov 20 16:33	13°♊50'35	4°54'53
morning rise	14381 Dec 19 19:17	29°♊53'29		min. Earth dist.	14382 Nov 22 09:46	12°♊50'42	0.54658 AU
direct	14381 Dec 23 07:48	29°♊26'03		morning rise	14382 Nov 29 04:26	9°♊37'32	
	14381 Dec 27 03:03	0°♊		direct	14382 Dec 03 16:33	8°♊53'58	
morning max el	14382 Jan 04 13:52	5°♊19'25	21°50'18	morning max el	14382 Dec 17 01:24	15°♊25'41	23°37'49
asc. node	14382 Jan 11 02:08	13°♊01'26			14382 Dec 28 10:05	0°♊	
	14382 Jan 21 00:13	0°♋		asc. node	14382 Dec 28 23:20	0°♊53'35	
morning set	14382 Jan 25 10:10	9°♋01'58		morning set	14383 Jan 09 21:56	23°♊47'08	
					14383 Jan 12 18:57	0°♋	
superior conj	14382 Feb 01 13:32	24°♋10'14	1°21'55				
minimum elong	14382 Feb 01 15:47	24°♋22'02	1°22'23	superior conj	14383 Jan 16 18:32	8°♋40'26	1°32'59
	14382 Feb 04 08:58	0°♋		minimum elong	14383 Jan 16 19:54	8°♋47'50	1°33'47
max. Earth dist.	14382 Feb 05 18:13	2°♋48'58	1.34556 AU	max. Earth dist.	14383 Jan 19 14:09	14°♋42'59	1.32969 AU
evening rise	14382 Feb 10 00:07	11°♋09'29		evening rise	14383 Jan 24 11:30	24°♋47'53	
desc. node	14382 Feb 12 17:32	16°♋16'22			14383 Jan 27 03:11	0°♋	
	14382 Feb 20 14:33	0°♌		desc. node	14383 Jan 30 14:07	6°♋28'07	
	14382 Mar 14 05:39	0°♌			14383 Feb 14 02:42	0°♌	
evening max el	14382 Mar 17 02:29	2°♌57'02	26°48'43	evening max el	14383 Feb 27 15:41	16°♌23'09	27°25'27
retrograde	14382 Mar 30 07:59	10°♌22'55		retrograde	14383 Mar 13 07:35	23°♌51'42	
evening set	14382 Apr 05 19:05	7°♌50'51		evening set	14383 Mar 20 01:51	21°♌23'07	
asc. node	14382 Apr 08 22:44	4°♌49'25		min. Earth dist.	14383 Mar 23 21:46	17°♌56'00	0.64368 AU
min. Earth dist.	14382 Apr 09 19:06	3°♌52'11	0.66110 AU	inferior conj	14383 Mar 26 11:16	15°♌12'26	-0°07'08
inferior conj	14382 Apr 11 20:42	1°♌26'49	0°54'09	minimum elong	14383 Mar 26 11:29	15°♌11'51	0°07'13
minimum elong	14382 Apr 11 19:21	1°♌30'47	0°53'12	transit middle	14383 Mar 26 11:29	15°♌11'51	0°07'13
	14382 Apr 13 02:44	30°♌♌		transit begin	14383 Mar 26 08:43	15°♌19'14	
morning rise	14382 Apr 17 20:53	25°♌49'46		transit end	14383 Mar 26 14:14	15°♌04'29	
direct	14382 Apr 20 19:14	25°♌02'26		asc. node	14383 Mar 26 20:11	14°♌48'41	
morning max el	14382 Apr 27 04:10	28°♌23'20	18°12'02	morning rise	14383 Apr 01 23:10	9°♌49'29	
	14382 Apr 28 16:56	0°♌		direct	14383 Apr 04 12:39	9°♌15'56	
desc. node	14382 May 11 19:47	19°♌03'42		morning max el	14383 Apr 10 21:10	12°♌32'18	17°50'44
morning set	14382 May 16 10:12	26°♌26'18			14383 Apr 23 02:48	0°♌	
	14382 May 18 15:31	0°♍		morning set	14383 Apr 27 23:38	8°♌08'27	
				desc. node	14383 Apr 28 16:27	9°♌18'59	
superior conj	14382 May 31 15:38	20°♍35'02	-1°59'36				
minimum elong	14382 May 31 07:42	20°♍04'00	2°00'06	superior conj	14383 May 11 11:07	0°♍19'13	-1°29'20
max. Earth dist.	14382 Jun 02 10:23	23°♍22'08	1.45876 AU	minimum elong	14383 May 11 02:39	29°♌45'12	1°29'13
	14382 Jun 06 16:30	0°♎			14383 May 11 06:20	0°♍	
evening rise	14382 Jun 16 17:22	15°♎35'44		max. Earth dist.	14383 May 16 06:26	7°♍57'29	1.45297 AU
	14382 Jun 26 01:01	0°♎		evening rise	14383 May 27 06:19	25°♍01'08	
greatest brilliancy	14382 Jun 28 01:40	3°♎04'44	-0.7m		14383 May 30 12:42	0°♎	
asc. node	14382 Jul 05 20:57	14°♎13'31		greatest brilliancy	14383 Jun 11 03:57	17°♎20'46	-0.6m
evening max el	14382 Jul 10 05:11	19°♎16'47	19°08'52		14383 Jun 20 13:33	0°♎	
retrograde	14382 Jul 17 02:42	23°♎05'38		asc. node	14383 Jun 22 17:49	2°♎26'26	
evening set	14382 Jul 20 15:12	21°♎53'45		evening max el	14383 Jun 23 09:35	3°♎06'50	20°03'56
inferior conj	14382 Jul 26 02:03	16°♎05'36	2°57'40	retrograde	14383 Jul 01 01:23	7°♎28'17	
minimum elong	14382 Jul 26 03:32	16°♎00'45	2°56'39	evening set	14383 Jul 04 23:46	5°♎59'08	
min. Earth dist.	14382 Jul 27 14:22	14°♎08'24	0.66837 AU	inferior conj	14383 Jul 10 06:42	29°♎58'04	3°09'39
morning rise	14382 Jul 31 15:14	9°♎40'32		minimum elong	14383 Jul 10 07:13	29°♎56'18	3°08'40
direct	14382 Aug 06 18:00	7°♎02'41			14383 Jul 10 06:08	30°♎♎	
desc. node	14382 Aug 07 18:27	7°♎06'35		min. Earth dist.	14383 Jul 11 04:50	28°♎43'00	0.68034 AU
morning max el	14382 Aug 19 09:32	14°♎35'18	26°01'01	morning rise	14383 Jul 15 14:20	23°♎34'58	
	14382 Sep 01 00:02	0°♏		direct	14383 Jul 21 06:04	21°♎06'00	



desc. node	14383 Jul 25 15:51	22°☿19'25		morning rise	14384 Jun 28 19:31	7°☿43'21	
morning max el	14383 Aug 01 20:10	28°☿02'27	24°38'03	direct	14384 Jul 03 22:59	5°☿29'08	
	14383 Aug 03 16:48	0°♊		desc. node	14384 Jul 11 13:09	9°☿04'48	
	14383 Aug 25 16:34	0°♊		morning max el	14384 Jul 14 07:10	11°☿37'56	23°08'38
morning set	14383 Sep 06 12:33	19°♊32'40			14384 Jul 28 22:59	0°♊	
max. Earth dist.	14383 Sep 10 02:33	25°♊56'05	1.37462 AU	morning set	14384 Aug 17 18:30	0°♊26'54	
	14383 Sep 12 07:40	0°♊			14384 Aug 17 12:00	0°♊	
				max. Earth dist.	14384 Aug 22 00:51	7°♊39'34	1.39833 AU
superior conj	14383 Sep 17 01:44	9°♊01'57	-0°15'52				
minimum elong	14383 Sep 17 02:47	9°♊07'02	0°15'37	superior conj	14384 Aug 29 19:28	21°♊30'12	-0°51'08
behind sun begin	14383 Sep 17 01:04	8°♊58'43		minimum elong	14384 Aug 29 23:18	21°♊47'50	0°50'46
behind sun end	14383 Sep 17 04:30	9°♊15'21			14384 Sep 03 08:30	0°♊	
asc. node	14383 Sep 18 19:18	12°♊25'06		asc. node	14384 Sep 04 15:50	2°♊29'10	
evening rise	14383 Sep 25 13:06	25°♊52'47		evening rise	14384 Sep 08 08:49	9°♊36'03	
	14383 Sep 27 14:47	0°♋			14384 Sep 19 21:49	0°♋	
evening max el	14383 Oct 12 08:22	23°♋28'50	19°21'39	evening max el	14384 Sep 24 09:10	5°♋31'55	18°34'49
desc. node	14383 Oct 21 12:00	28°♋12'28		retrograde	14384 Oct 02 09:50	9°♋35'13	
retrograde	14383 Oct 21 18:58	28°♋12'44		evening set	14384 Oct 04 08:33	9°♋21'41	
evening set	14383 Oct 23 15:55	28°♋02'22		desc. node	14384 Oct 07 09:28	8°♋11'35	
inferior conj	14383 Nov 01 06:29	23°♋53'53	-3°21'06	inferior conj	14384 Oct 12 06:54	4°♋53'36	-1°33'39
minimum elong	14383 Oct 31 22:06	24°♋07'38	3°17'20	minimum elong	14384 Oct 12 03:09	5°♋00'47	1°31'38
min. Earth dist.	14383 Nov 03 19:27	22°♋14'19	0.55691 AU	min. Earth dist.	14384 Oct 15 11:21	2°♋28'22	0.57446 AU
morning rise	14383 Nov 09 02:01	19°♋24'58			14384 Oct 19 08:07	30°♋	
direct	14383 Nov 14 10:49	18°♋19'42		morning rise	14384 Oct 19 18:17	29°♋47'03	
morning max el	14383 Nov 28 11:09	25°♋23'36	25°24'26	direct	14384 Oct 25 19:39	28°♋15'10	
	14383 Dec 02 18:42	0°♌			14384 Nov 01 10:24	0°♋	
asc. node	14383 Dec 15 20:24	19°♌29'50		morning max el	14384 Nov 09 02:19	5°♋44'57	26°51'17
	14383 Dec 21 08:22	0°♌			14384 Nov 26 22:50	0°♌	
morning set	14383 Dec 25 09:36	8°♌28'17		asc. node	14384 Dec 01 17:23	8°♌38'04	
				morning set	14384 Dec 08 19:24	22°♌59'50	
superior conj	14384 Jan 01 03:43	23°♌19'50	1°37'46		14384 Dec 12 00:31	0°♌	
minimum elong	14384 Jan 01 04:01	23°♌21'30	1°38'45				
max. Earth dist.	14384 Jan 02 17:02	26°♌45'31	1.31851 AU	superior conj	14384 Dec 15 14:59	8°♌01'39	1°36'30
	14384 Jan 04 04:39	0°♍		minimum elong	14384 Dec 15 14:14	7°♌57'27	1°37'30
evening rise	14384 Jan 08 08:09	8°♍48'24		max. Earth dist.	14384 Dec 16 00:07	8°♌52'43	1.31235 AU
desc. node	14384 Jan 17 10:47	26°♍22'10		evening rise	14384 Dec 22 11:29	23°♌04'04	
	14384 Jan 19 12:39	0°♎			14384 Dec 25 19:46	0°♍	
evening max el	14384 Feb 10 02:13	29°♎17'42	27°33'31	desc. node	14385 Jan 03 07:34	15°♍50'48	
	14384 Feb 10 20:17	0°♏			14385 Jan 12 11:52	0°♎	
retrograde	14384 Feb 23 23:45	6°♏42'08		evening max el	14385 Jan 22 07:41	11°♎29'03	27°08'08
evening set	14384 Mar 01 20:58	4°♏24'20		retrograde	14385 Feb 05 07:31	18°♎44'56	
min. Earth dist.	14384 Mar 05 15:04	1°♏23'43	0.62334 AU	evening set	14385 Feb 12 01:17	16°♎46'04	
	14384 Mar 07 02:46	30°♏		min. Earth dist.	14385 Feb 15 22:07	14°♎03'27	0.60135 AU
inferior conj	14384 Mar 08 14:26	28°♎34'34	-1°20'28	inferior conj	14385 Feb 19 02:43	11°♎24'15	-2°43'30
minimum elong	14384 Mar 08 17:11	28°♎28'00	1°19'12	minimum elong	14385 Feb 19 08:43	11°♎11'45	2°40'47
asc. node	14384 Mar 12 17:40	25°♎01'57		morning rise	14385 Feb 26 19:27	6°♎37'50	
morning rise	14384 Mar 15 16:16	23°♎28'31		asc. node	14385 Feb 27 15:09	6°♎27'23	
direct	14384 Mar 17 22:23	23°♎05'21		direct	14385 Feb 28 20:36	6°♎21'25	
morning max el	14384 Mar 24 14:44	26°♎28'26	17°47'01	morning max el	14385 Mar 08 05:28	10°♎02'07	18°01'49
	14384 Mar 27 16:22	0°♏			14385 Mar 21 07:39	0°♏	
morning set	14384 Apr 09 12:38	20°♏56'59		morning set	14385 Mar 23 19:11	4°♏34'03	
desc. node	14384 Apr 14 13:02	29°♏44'47		desc. node	14385 Apr 01 09:35	20°♏17'08	
	14384 Apr 14 16:32	0°♐					
superior conj	14384 Apr 21 04:38	11°♐05'59	-0°50'58	superior conj	14385 Apr 02 21:55	22°♏58'21	-0°12'10
minimum elong	14384 Apr 20 23:43	10°♐45'24	0°50'51	minimum elong	14385 Apr 02 20:53	22°♏53'46	0°12'19
max. Earth dist.	14384 Apr 27 23:26	22°♐13'54	1.44032 AU	behind sun begin	14385 Apr 02 15:49	22°♏31'23	
	14384 May 02 20:50	0°♑		behind sun end	14385 Apr 03 01:57	23°♏16'08	
evening rise	14384 May 05 19:21	4°♑34'33			14385 Apr 06 23:00	0°♐	
	14384 May 22 22:03	0°♑		max. Earth dist.	14385 Apr 10 11:45	5°♐57'15	1.42222 AU
evening max el	14384 Jun 05 07:59	16°♑57'13	21°12'15	evening rise	14385 Apr 15 22:41	14°♐50'31	
asc. node	14384 Jun 08 14:49	19°♑50'17			14385 Apr 25 18:14	0°♑	
retrograde	14384 Jun 14 00:16	22°♑00'05			14385 May 18 06:24	0°♑	
evening set	14384 Jun 18 09:09	20°♑14'08		evening max el	14385 May 19 01:30	0°♑48'46	22°29'49
inferior conj	14384 Jun 23 14:55	14°♑01'44	3°09'40	asc. node	14385 May 26 11:57	6°♑09'55	
minimum elong	14384 Jun 23 14:27	14°♑03'22	3°08'37	retrograde	14385 May 28 21:40	6°♑35'53	
min. Earth dist.	14384 Jun 23 23:30	13°♑31'53	0.68760 AU	evening set	14385 Jun 02 17:42	4°♑34'24	
					14385 Jun 06 17:38	30°♑	

inferior conj	14385 Jun 08 00:39	28° $\Pi$ 12'46	2°58'56	evening set	14386 May 17 23:44	18° $\Pi$ 54'26	
minimum elong	14385 Jun 07 23:20	28° $\Pi$ 17'23	2°57'44	min. Earth dist.	14386 May 22 16:46	13° $\Pi$ 25'00	0.68780 AU
min. Earth dist.	14385 Jun 07 20:14	28° $\Pi$ 28'11	0.69006 AU	inferior conj	14386 May 23 09:56	12° $\Pi$ 26'25	2°37'53
morning rise	14385 Jun 13 04:48	22° $\Pi$ 01'00		minimum elong	14386 May 23 08:00	12° $\Pi$ 33'00	2°36'31
direct	14385 Jun 17 19:42	20° $\Pi$ 05'17		morning rise	14386 May 28 16:15	6° $\Pi$ 22'40	
morning max el	14385 Jun 26 21:07	25° $\Pi$ 21'57	21°41'40	direct	14386 Jun 01 18:49	4° $\Pi$ 47'14	
desc. node	14385 Jun 28 10:21	26° $\Pi$ 59'12		morning max el	14386 Jun 09 16:59	9° $\Pi$ 16'10	20°24'01
	14385 Jul 01 01:27	0° $\mathfrak{C}$		desc. node	14386 Jun 15 07:26	15° $\Pi$ 43'32	
	14385 Jul 22 09:17	0° $\Omega$			14386 Jun 25 13:40	0° $\mathfrak{C}$	
morning set	14385 Jul 28 23:53	10° $\Omega$ 17'38		morning set	14386 Jul 08 08:17	19° $\mathfrak{C}$ 15'03	
max. Earth dist.	14385 Aug 04 03:23	20° $\Omega$ 14'20	1.42096 AU		14386 Jul 15 05:15	0° $\Omega$	
	14385 Aug 09 22:36	0° $\mathfrak{M}$		max. Earth dist.	14386 Jul 17 12:54	3° $\Omega$ 41'42	1.43979 AU
superior conj	14385 Aug 11 18:10	3° $\mathfrak{M}$ 08'11	-1°26'07	superior conj	14386 Jul 23 17:57	13° $\Omega$ 47'15	-1°55'30
minimum elong	14385 Aug 12 00:46	3° $\mathfrak{M}$ 36'51	1°25'50	minimum elong	14386 Jul 24 01:11	14° $\Omega$ 17'08	1°55'44
evening rise	14385 Aug 22 17:08	22° $\mathfrak{M}$ 48'06			14386 Aug 02 08:10	0° $\mathfrak{M}$	
asc. node	14385 Aug 22 12:24	22° $\mathfrak{M}$ 26'30		evening rise	14386 Aug 05 09:09	5° $\mathfrak{M}$ 16'23	
	14385 Aug 26 16:02	0° $\mathfrak{L}$		asc. node	14386 Aug 09 09:01	12° $\mathfrak{M}$ 12'25	
evening max el	14385 Sep 07 18:34	18° $\mathfrak{L}$ 14'52	18°08'53		14386 Aug 20 23:47	0° $\mathfrak{L}$	
retrograde	14385 Sep 14 19:18	21° $\mathfrak{L}$ 50'09		evening max el	14386 Aug 22 08:20	1° $\mathfrak{L}$ 26'56	18°02'30
evening set	14385 Sep 17 00:43	21° $\mathfrak{L}$ 29'03		retrograde	14386 Aug 28 19:59	4° $\mathfrak{L}$ 48'38	
inferior conj	14385 Sep 24 04:55	16° $\mathfrak{L}$ 40'03	0°01'36	evening set	14386 Aug 31 09:33	4° $\mathfrak{L}$ 16'19	
minimum elong	14385 Sep 24 04:58	16° $\mathfrak{L}$ 39'55	0°01'46		14386 Sep 06 00:58	30° $\mathfrak{R}$ $\mathfrak{M}$	
transit middle	14385 Sep 24 04:58	16° $\mathfrak{L}$ 39'55	0°01'46	inferior conj	14386 Sep 06 21:37	29° $\mathfrak{M}$ 07'56	1°16'06
transit begin	14385 Sep 24 01:37	16° $\mathfrak{L}$ 47'23		minimum elong	14386 Sep 06 23:37	29° $\mathfrak{M}$ 02'50	1°15'17
transit end	14385 Sep 24 08:20	16° $\mathfrak{L}$ 32'25		min. Earth dist.	14386 Sep 09 20:33	26° $\mathfrak{M}$ 08'17	0.61925 AU
desc. node	14385 Sep 24 06:58	16° $\mathfrak{L}$ 35'29		desc. node	14386 Sep 11 04:29	24° $\mathfrak{M}$ 53'34	
min. Earth dist.	14385 Sep 27 11:18	13° $\mathfrak{L}$ 46'51	0.59631 AU	morning rise	14386 Sep 13 11:11	23° $\mathfrak{M}$ 03'58	
morning rise	14385 Oct 01 05:54	11° $\mathfrak{L}$ 00'10		direct	14386 Sep 20 03:26	20° $\mathfrak{M}$ 43'22	
direct	14385 Oct 07 18:04	9° $\mathfrak{L}$ 01'24		morning max el	14386 Oct 04 06:49	28° $\mathfrak{M}$ 41'40	27°58'30
morning max el	14385 Oct 22 01:12	16° $\mathfrak{L}$ 49'24	27°44'22		14386 Oct 05 13:27	0° $\mathfrak{L}$	
	14385 Nov 01 22:45	0° $\mathfrak{M}$			14386 Oct 26 20:04	0° $\mathfrak{M}$	
asc. node	14385 Nov 18 14:16	28° $\mathfrak{M}$ 09'45		asc. node	14386 Nov 05 11:04	17° $\mathfrak{M}$ 58'20	
	14385 Nov 19 12:29	0° $\mathfrak{X}$		morning set	14386 Nov 07 01:55	21° $\mathfrak{M}$ 15'49	
morning set	14385 Nov 23 01:30	7° $\mathfrak{X}$ 17'12			14386 Nov 11 05:18	0° $\mathfrak{X}$	
max. Earth dist.	14385 Nov 29 08:04	20° $\mathfrak{X}$ 57'56	1.31150 AU	max. Earth dist.	14386 Nov 12 13:10	2° $\mathfrak{X}$ 52'58	1.31609 AU
superior conj	14385 Nov 30 02:26	22° $\mathfrak{X}$ 40'25	1°29'19	superior conj	14386 Nov 14 12:12	7° $\mathfrak{X}$ 11'11	1°16'18
minimum elong	14385 Nov 30 00:48	22° $\mathfrak{X}$ 31'18	1°30'11	minimum elong	14386 Nov 14 10:00	6° $\mathfrak{X}$ 59'05	1°16'56
	14385 Dec 03 09:14	0° $\mathfrak{Z}$		evening rise	14386 Nov 21 05:42	22° $\mathfrak{X}$ 00'17	
evening rise	14385 Dec 06 19:18	7° $\mathfrak{Z}$ 29'35			14386 Nov 25 00:47	0° $\mathfrak{Z}$	
	14385 Dec 18 08:03	0° $\mathfrak{A}$		desc. node	14386 Dec 08 01:27	22° $\mathfrak{Z}$ 49'01	
desc. node	14385 Dec 21 04:27	4° $\mathfrak{A}$ 44'05			14386 Dec 13 15:29	0° $\mathfrak{A}$	
evening max el	14386 Jan 04 05:48	22° $\mathfrak{A}$ 49'02	26°08'16	evening max el	14386 Dec 16 19:43	3° $\mathfrak{A}$ 19'24	24°39'55
retrograde	14386 Jan 18 04:43	29° $\mathfrak{A}$ 53'28		retrograde	14386 Dec 30 13:07	10° $\mathfrak{A}$ 10'27	
evening set	14386 Jan 24 10:53	28° $\mathfrak{A}$ 20'34		evening set	14387 Jan 04 21:55	9° $\mathfrak{A}$ 06'53	
min. Earth dist.	14386 Jan 28 19:07	25° $\mathfrak{A}$ 43'31	0.57978 AU	min. Earth dist.	14387 Jan 10 07:33	6° $\mathfrak{A}$ 19'04	0.56131 AU
inferior conj	14386 Jan 31 20:28	23° $\mathfrak{A}$ 31'20	-4°09'09	inferior conj	14387 Jan 12 17:23	4° $\mathfrak{A}$ 48'14	-5°22'04
minimum elong	14386 Feb 01 05:10	23° $\mathfrak{A}$ 15'37	4°05'46	minimum elong	14387 Jan 13 01:24	4° $\mathfrak{A}$ 35'37	5°19'38
morning rise	14386 Feb 09 02:27	19° $\mathfrak{A}$ 06'16		morning rise	14387 Jan 21 06:58	0° $\mathfrak{A}$ 44'15	
direct	14386 Feb 11 03:00	18° $\mathfrak{A}$ 52'52		direct	14387 Jan 23 14:25	0° $\mathfrak{A}$ 29'43	
asc. node	14386 Feb 14 12:37	19° $\mathfrak{A}$ 32'55		asc. node	14387 Feb 01 10:02	4° $\mathfrak{A}$ 19'06	
morning max el	14386 Feb 19 13:24	23° $\mathfrak{A}$ 01'31	18°36'51	morning max el	14387 Feb 02 10:22	5° $\mathfrak{A}$ 15'07	19°34'07
	14386 Feb 25 02:29	0° $\mathfrak{H}$			14387 Feb 18 02:16	0° $\mathfrak{H}$	
morning set	14386 Mar 07 13:59	18° $\mathfrak{H}$ 43'30		morning set	14387 Feb 19 17:00	3° $\mathfrak{H}$ 13'34	
	14386 Mar 13 10:16	0° $\mathfrak{Y}$					
superior conj	14386 Mar 16 11:38	5° $\mathfrak{Y}$ 45'57	0°22'30	superior conj	14387 Feb 27 17:16	19° $\mathfrak{H}$ 16'28	0°50'57
minimum elong	14386 Mar 16 13:08	5° $\mathfrak{Y}$ 52'57	0°22'15	minimum elong	14387 Feb 27 19:50	19° $\mathfrak{H}$ 29'06	0°50'51
desc. node	14386 Mar 19 06:06	10° $\mathfrak{Y}$ 51'54			14387 Mar 05 08:03	0° $\mathfrak{Y}$	
max. Earth dist.	14386 Mar 23 19:57	19° $\mathfrak{Y}$ 00'32	1.40067 AU	max. Earth dist.	14387 Mar 06 02:31	1° $\mathfrak{Y}$ 25'15	1.37799 AU
evening rise	14386 Mar 27 22:41	26° $\mathfrak{Y}$ 01'36		desc. node	14387 Mar 06 02:37	1° $\mathfrak{Y}$ 25'42	
	14386 Mar 30 08:21	0° $\mathfrak{B}$		evening rise	14387 Mar 09 19:22	8° $\mathfrak{Y}$ 05'16	
	14386 Apr 19 10:16	0° $\Pi$			14387 Mar 23 04:38	0° $\mathfrak{B}$	
evening max el	14386 May 01 16:06	14° $\Pi$ 41'57	23°51'04	evening max el	14387 Apr 14 05:41	28° $\mathfrak{B}$ 35'53	25°09'12
retrograde	14386 May 12 16:05	21° $\Pi$ 09'25			14387 Apr 15 17:05	0° $\Pi$	
asc. node	14386 May 13 09:11	21° $\Pi$ 07'10		retrograde	14387 Apr 26 06:27	5° $\Pi$ 35'01	
				asc. node	14387 Apr 30 06:29	4° $\Pi$ 27'04	

evening set	14387 May 02 01:41	3° $\Pi$ 09'33		asc. node	14388 Apr 16 03:52	16° $\mathcal{B}$ 06'18	
	14387 May 05 02:05	30° $\mathcal{R}$ $\mathcal{B}$		min. Earth dist.	14388 Apr 19 00:42	12° $\mathcal{B}$ 56'08	0.66948 AU
min. Earth dist.	14387 May 06 10:57	28° $\mathcal{B}$ 16'34	0.68089 AU	inferior conj	14388 Apr 20 19:17	10° $\mathcal{B}$ 45'33	1°23'54
inferior conj	14387 May 07 16:50	26° $\mathcal{B}$ 38'55	2°06'24	minimum elong	14388 Apr 20 17:26	10° $\mathcal{B}$ 51'15	1°22'39
minimum elong	14387 May 07 14:40	26° $\mathcal{B}$ 46'00	2°04'58	morning rise	14388 Apr 26 13:57	5° $\mathcal{B}$ 01'55	
morning rise	14387 May 13 03:58	20° $\mathcal{B}$ 44'30		direct	14388 Apr 29 17:58	4° $\mathcal{B}$ 05'15	
direct	14387 May 16 18:51	19° $\mathcal{B}$ 29'16		morning max el	14388 May 06 06:43	7° $\mathcal{B}$ 33'55	18°32'06
morning max el	14387 May 23 20:21	23° $\mathcal{B}$ 21'26	19°20'04	desc. node	14388 May 19 01:16	24° $\mathcal{B}$ 52'22	
	14387 May 29 12:06	0° $\Pi$			14388 May 22 08:22	0° $\Pi$	
desc. node	14387 Jun 02 04:25	5° $\Pi$ 04'34		morning set	14388 May 27 05:35	7° $\Pi$ 40'12	
greatest brilliancy	14387 Jun 05 13:24	9° $\Pi$ 59'15	-0.7m		14388 Jun 10 11:53	0° $\mathcal{E}$	
morning set	14387 Jun 17 11:11	28° $\Pi$ 03'16					
	14387 Jun 18 17:31	0° $\mathcal{E}$		superior conj	14388 Jun 12 04:31	2° $\mathcal{E}$ 38'33	-2°09'59
max. Earth dist.	14387 Jun 30 04:36	17° $\mathcal{E}$ 49'26	1.45278 AU	minimum elong	14388 Jun 11 23:50	2° $\mathcal{E}$ 20'16	2°10'53
				max. Earth dist.	14388 Jun 11 23:51	2° $\mathcal{E}$ 20'18	1.45867 AU
superior conj	14387 Jul 03 18:39	23° $\mathcal{E}$ 29'14	-2°12'11	evening rise	14388 Jun 27 21:47	27° $\mathcal{E}$ 19'28	
minimum elong	14387 Jul 03 21:41	23° $\mathcal{E}$ 41'18	2°13'07		14388 Jun 29 14:21	0° $\mathcal{Q}$	
	14387 Jul 07 20:32	0° $\mathcal{Q}$		greatest brilliancy	14388 Jul 06 05:04	10° $\mathcal{Q}$ 25'44	-0.8m
evening rise	14387 Jul 18 03:47	16° $\mathcal{Q}$ 48'47		asc. node	14388 Jul 13 02:24	20° $\mathcal{Q}$ 48'31	
	14387 Jul 26 04:16	0° $\mathcal{M}$		evening max el	14388 Jul 19 10:58	28° $\mathcal{Q}$ 41'33	18°44'10
asc. node	14387 Jul 27 05:40	1° $\mathcal{M}$ 41'45			14388 Jul 20 21:22	0° $\mathcal{M}$	
evening max el	14387 Aug 05 22:47	14° $\mathcal{M}$ 58'15	18°14'31	retrograde	14388 Jul 26 01:32	2° $\mathcal{M}$ 17'21	
retrograde	14387 Aug 12 07:25	18° $\mathcal{M}$ 20'24		evening set	14388 Jul 29 08:32	1° $\mathcal{M}$ 15'16	
evening set	14387 Aug 15 05:29	17° $\mathcal{M}$ 34'09			14388 Jul 30 23:55	30° $\mathcal{R}$ $\mathcal{Q}$	
inferior conj	14387 Aug 21 04:55	12° $\mathcal{M}$ 08'41	2°09'33	inferior conj	14388 Aug 03 22:59	25° $\mathcal{Q}$ 34'55	2°44'36
minimum elong	14387 Aug 21 07:21	12° $\mathcal{M}$ 01'44	2°08'28	minimum elong	14388 Aug 04 00:58	25° $\mathcal{Q}$ 28'46	2°43'33
min. Earth dist.	14387 Aug 23 15:34	9° $\mathcal{M}$ 22'10	0.64083 AU	min. Earth dist.	14388 Aug 05 19:35	23° $\mathcal{Q}$ 16'29	0.65940 AU
morning rise	14387 Aug 27 07:35	5° $\mathcal{M}$ 50'21		morning rise	14388 Aug 09 16:27	19° $\mathcal{Q}$ 10'17	
desc. node	14387 Aug 29 02:02	4° $\mathcal{M}$ 37'54		desc. node	14388 Aug 14 23:31	16° $\mathcal{Q}$ 35'01	
direct	14387 Sep 02 21:55	3° $\mathcal{M}$ 15'51		direct	14388 Aug 16 00:19	16° $\mathcal{Q}$ 31'02	
morning max el	14387 Sep 16 16:39	11° $\mathcal{M}$ 15'08	27°35'34	morning max el	14388 Aug 29 04:03	24° $\mathcal{Q}$ 18'34	26°42'06
	14387 Oct 01 13:21	0° $\mathcal{L}$			14388 Sep 03 07:06	0° $\mathcal{M}$	
	14387 Oct 19 06:52	0° $\mathcal{M}$			14388 Sep 23 23:09	0° $\mathcal{L}$	
morning set	14387 Oct 21 18:08	4° $\mathcal{M}$ 49'12		morning set	14388 Oct 03 23:15	17° $\mathcal{L}$ 50'45	
asc. node	14387 Oct 23 07:44	7° $\mathcal{M}$ 57'38		max. Earth dist.	14388 Oct 08 00:34	25° $\mathcal{L}$ 44'11	1.34155 AU
max. Earth dist.	14387 Oct 26 11:39	14° $\mathcal{M}$ 29'09	1.32616 AU	asc. node	14388 Oct 09 04:21	28° $\mathcal{L}$ 03'26	
					14388 Oct 10 03:20	0° $\mathcal{M}$	
superior conj	14387 Oct 29 18:12	21° $\mathcal{M}$ 27'30	0°57'28	superior conj	14388 Oct 12 18:10	5° $\mathcal{M}$ 23'57	0°32'58
minimum elong	14387 Oct 29 15:56	21° $\mathcal{M}$ 15'18	0°57'51	minimum elong	14388 Oct 12 16:30	5° $\mathcal{M}$ 15'17	0°33'10
	14387 Nov 02 16:33	0° $\mathcal{J}$		evening rise	14388 Oct 20 02:32	20° $\mathcal{M}$ 55'34	
evening rise	14387 Nov 05 16:43	6° $\mathcal{J}$ 30'29			14388 Oct 24 12:39	0° $\mathcal{J}$	
	14387 Nov 17 22:56	0° $\mathcal{Z}$		evening max el	14388 Nov 08 20:14	23° $\mathcal{J}$ 27'20	21°19'37
desc. node	14387 Nov 24 22:34	9° $\mathcal{Z}$ 47'06		desc. node	14388 Nov 10 19:47	25° $\mathcal{J}$ 15'17	
evening max el	14387 Nov 28 05:19	13° $\mathcal{Z}$ 19'19	22°57'40	retrograde	14388 Nov 20 20:01	29° $\mathcal{J}$ 24'14	
retrograde	14387 Dec 11 08:43	19° $\mathcal{Z}$ 50'42		evening set	14388 Nov 23 14:30	29° $\mathcal{J}$ 06'28	
evening set	14387 Dec 15 10:37	19° $\mathcal{Z}$ 14'30		inferior conj	14388 Dec 02 10:35	25° $\mathcal{J}$ 13'54	-5°37'05
min. Earth dist.	14387 Dec 22 14:30	15° $\mathcal{Z}$ 56'28	0.54878 AU	minimum elong	14388 Dec 02 03:12	25° $\mathcal{J}$ 24'19	5°34'55
inferior conj	14387 Dec 23 19:04	15° $\mathcal{Z}$ 15'41	-5°58'25	min. Earth dist.	14388 Dec 02 20:18	25° $\mathcal{J}$ 00'14	0.54465 AU
minimum elong	14387 Dec 23 20:24	15° $\mathcal{Z}$ 13'47	5°57'20	morning rise	14388 Dec 10 16:28	21° $\mathcal{J}$ 24'09	
morning rise	14388 Jan 01 07:38	11° $\mathcal{Z}$ 26'41		direct	14388 Dec 14 14:49	20° $\mathcal{J}$ 50'47	
direct	14388 Jan 04 07:20	11° $\mathcal{Z}$ 05'53		morning max el	14388 Dec 27 10:10	27° $\mathcal{J}$ 01'29	22°35'03
morning max el	14388 Jan 15 17:07	16° $\mathcal{Z}$ 33'51	20°54'38		14388 Dec 30 06:38	0° $\mathcal{Z}$	
asc. node	14388 Jan 19 07:22	20° $\mathcal{Z}$ 31'00		asc. node	14389 Jan 05 04:36	7° $\mathcal{Z}$ 51'15	
	14388 Jan 25 17:37	0° $\approx$			14389 Jan 17 05:55	0° $\approx$	
morning set	14388 Feb 04 01:10	17° $\approx$ 54'20		morning set	14389 Jan 18 12:10	2° $\approx$ 39'19	
	14388 Feb 09 20:17	0° $\mathcal{H}$					
superior conj	14388 Feb 11 10:33	3° $\mathcal{H}$ 17'28	1°12'34	superior conj	14389 Jan 25 12:06	17° $\approx$ 39'26	1°27'25
minimum elong	14388 Feb 11 13:08	3° $\mathcal{H}$ 30'40	1°12'48	minimum elong	14389 Jan 25 14:01	17° $\approx$ 49'37	1°28'01
max. Earth dist.	14388 Feb 16 11:18	13° $\mathcal{H}$ 22'32	1.35650 AU	max. Earth dist.	14389 Jan 29 02:24	25° $\approx$ 12'08	1.33822 AU
evening rise	14388 Feb 20 09:48	20° $\mathcal{H}$ 52'27			14389 Jan 31 11:00	0° $\mathcal{H}$	
desc. node	14388 Feb 20 23:07	21° $\mathcal{H}$ 54'09		evening rise	14389 Feb 02 14:30	4° $\mathcal{H}$ 14'37	
	14388 Feb 25 11:35	0° $\mathcal{Y}$		desc. node	14389 Feb 06 19:40	12° $\mathcal{H}$ 13'20	
	14388 Mar 16 02:43	0° $\mathcal{B}$			14389 Feb 17 06:42	0° $\mathcal{Y}$	
evening max el	14388 Mar 26 19:15	12° $\mathcal{B}$ 25'29	26°17'10	evening max el	14389 Mar 09 08:45	26° $\mathcal{Y}$ 02'46	27°07'28
retrograde	14388 Apr 08 15:54	19° $\mathcal{B}$ 45'21			14389 Mar 13 23:55	0° $\mathcal{B}$	
evening set	14388 Apr 14 21:48	17° $\mathcal{B}$ 13'49		retrograde	14389 Mar 22 19:34	3° $\mathcal{B}$ 31'49	

evening set	14389 Mar 29 10:06	1°♄00'07		evening max el	14390 Feb 19 21:11	9°♄17'38	27°32'53
	14389 Mar 30 14:52	30°♄		retrograde	14390 Mar 05 16:24	16°♄45'37	
min. Earth dist.	14389 Apr 02 08:03	27°♄15'26	0.65402 AU	evening set	14390 Mar 12 12:19	14°♄20'52	
asc. node	14389 Apr 03 01:18	26°♄27'24		min. Earth dist.	14390 Mar 16 07:08	11°♄05'32	0.63521 AU
inferior conj	14389 Apr 04 14:57	24°♄40'38	0°29'37	inferior conj	14390 Mar 19 01:07	8°♄17'50	-0°36'51
minimum elong	14389 Apr 04 14:09	24°♄42'53	0°28'59	minimum elong	14390 Mar 19 02:17	8°♄14'49	0°36'24
morning rise	14389 Apr 10 19:50	19°♄09'29		asc. node	14390 Mar 20 22:47	6°♄24'51	
direct	14389 Apr 13 14:07	18°♄28'35		morning rise	14390 Mar 25 18:42	3°♄01'33	
morning max el	14389 Apr 19 22:04	21°♄46'24	18°00'54	direct	14390 Mar 28 04:44	2°♄32'56	
	14389 Apr 26 10:45	0°♄		morning max el	14390 Apr 03 15:43	5°♄51'13	17°46'57
desc. node	14389 May 05 21:59	14°♄59'12			14390 Apr 19 15:51	0°♄	
morning set	14389 May 08 03:06	18°♄36'14		morning set	14390 Apr 20 03:22	0°♄49'18	
	14389 May 15 03:29	0°♄		desc. node	14390 Apr 22 18:37	5°♄19'38	
superior conj	14389 May 22 15:47	11°♄58'04	-1°48'19	superior conj	14390 May 02 19:56	22°♄07'22	-1°13'32
minimum elong	14389 May 22 06:52	11°♄22'53	1°48'30	minimum elong	14390 May 02 12:43	21°♄37'55	1°13'22
max. Earth dist.	14389 May 25 19:45	16°♄56'27	1.45709 AU		14390 May 07 17:11	0°♄	
	14389 Jun 03 05:23	0°♄		max. Earth dist.	14390 May 08 14:26	1°♄24'31	1.44832 AU
evening rise	14389 Jun 07 18:00	6°♄58'50		evening rise	14390 May 18 04:58	16°♄22'44	
greatest brilliancy	14389 Jun 21 00:58	27°♄09'55	-0.7m		14390 May 27 05:23	0°♄	
	14389 Jun 22 23:32	0°♄		evening max el	14390 Jun 15 20:33	26°♄21'19	20°31'37
asc. node	14389 Jun 29 23:14	9°♄24'09		asc. node	14390 Jun 16 20:11	27°♄18'13	
evening max el	14389 Jul 02 18:36	12°♄30'21	19°30'29		14390 Jun 20 10:49	0°♄	
retrograde	14389 Jul 09 23:14	16°♄32'06		retrograde	14390 Jun 23 22:08	0°♄59'19	
evening set	14389 Jul 13 15:44	15°♄13'06			14390 Jun 27 03:52	30°♄	
inferior conj	14389 Jul 19 00:34	9°♄19'22	3°04'17	evening set	14390 Jun 28 00:53	29°♄23'05	
minimum elong	14389 Jul 19 01:40	9°♄15'44	3°03'18	inferior conj	14390 Jul 03 07:03	23°♄17'16	3°11'00
min. Earth dist.	14389 Jul 20 06:52	7°♄39'10	0.67401 AU	minimum elong	14390 Jul 03 07:08	23°♄16'57	3°10'00
morning rise	14389 Jul 24 11:04	2°♄54'27		min. Earth dist.	14390 Jul 03 23:25	22°♄20'58	0.68406 AU
direct	14389 Jul 30 09:22	0°♄19'17		morning rise	14390 Jul 08 13:04	16°♄55'54	
desc. node	14389 Aug 01 20:59	0°♄42'38		direct	14390 Jul 13 23:48	14°♄32'20	
morning max el	14389 Aug 11 14:57	7°♄39'01	25°27'01	desc. node	14390 Jul 19 18:21	16°♄38'02	
	14389 Aug 29 02:14	0°♄		morning max el	14390 Jul 25 01:19	21°♄09'19	24°00'09
	14389 Sep 16 11:03	0°♄			14390 Aug 01 16:34	0°♄	
morning set	14389 Sep 16 13:28	0°♄10'58			14390 Aug 22 07:39	0°♄	
max. Earth dist.	14389 Sep 20 03:42	6°♄47'55	1.36160 AU	morning set	14390 Aug 29 08:27	11°♄39'26	
				max. Earth dist.	14390 Sep 02 01:55	18°♄09'07	1.38473 AU
superior conj	14389 Sep 26 09:16	18°♄53'00	0°03'15		14390 Sep 08 13:27	0°♄	
minimum elong	14389 Sep 26 09:03	18°♄51'58	0°03'26	superior conj	14390 Sep 09 12:02	1°♄46'43	-0°30'37
behind sun begin	14389 Sep 26 02:52	18°♄21'06		minimum elong	14390 Sep 09 14:11	1°♄56'57	0°30'19
behind sun end	14389 Sep 26 15:14	19°♄22'55		asc. node	14390 Sep 12 21:27	8°♄18'03	
asc. node	14389 Sep 26 00:54	18°♄11'21		evening rise	14390 Sep 18 09:31	19°♄06'40	
	14389 Oct 01 20:34	0°♄			14390 Sep 24 01:30	0°♄	
evening rise	14389 Oct 04 08:58	5°♄09'41		evening max el	14390 Oct 04 18:20	15°♄51'51	18°59'02
	14389 Oct 18 08:39	0°♄		retrograde	14390 Oct 13 13:06	20°♄16'37	
evening max el	14389 Oct 22 00:13	4°♄14'54	19°58'32	evening set	14390 Oct 15 10:04	20°♄05'22	
desc. node	14389 Oct 28 17:06	8°♄47'03		desc. node	14390 Oct 15 14:32	20°♄03'04	
retrograde	14389 Nov 01 09:23	9°♄25'12		inferior conj	14390 Oct 23 18:23	15°♄49'04	-2°35'03
evening set	14389 Nov 03 09:45	9°♄14'24		minimum elong	14390 Oct 23 11:52	16°♄00'25	2°31'52
inferior conj	14389 Nov 12 06:15	5°♄15'21	-4°20'15	min. Earth dist.	14390 Oct 26 15:53	13°♄48'27	0.56374 AU
minimum elong	14389 Nov 11 20:15	5°♄30'30	4°16'21	morning rise	14390 Oct 31 10:47	11°♄04'37	
min. Earth dist.	14389 Nov 14 03:59	4°♄05'59	0.54995 AU	direct	14390 Nov 06 03:34	9°♄48'12	
morning rise	14389 Nov 20 05:29	1°♄05'12		morning max el	14390 Nov 20 06:59	17°♄03'24	26°04'46
direct	14389 Nov 25 02:55	0°♄12'50			14390 Nov 30 22:09	0°♄	
morning max el	14389 Dec 08 19:48	6°♄59'52	24°24'23	asc. node	14390 Dec 09 22:46	14°♄54'51	
asc. node	14389 Dec 23 01:44	26°♄03'44			14390 Dec 17 12:35	0°♄	
	14389 Dec 25 07:21	0°♄		morning set	14390 Dec 18 11:11	2°♄00'45	
morning set	14390 Jan 03 00:07	17°♄23'18					
	14390 Jan 08 18:38	0°♄		superior conj	14390 Dec 25 05:29	16°♄55'36	1°37'56
superior conj	14390 Jan 09 19:11	2°♄14'37	1°35'46	minimum elong	14390 Dec 25 05:20	16°♄54'43	1°38'58
minimum elong	14390 Jan 09 20:07	2°♄19'40	1°36'40	max. Earth dist.	14390 Dec 26 06:30	19°♄14'33	1.31528 AU
max. Earth dist.	14390 Jan 12 01:19	7°♄08'48	1.32429 AU		14390 Dec 31 05:03	0°♄	
evening rise	14390 Jan 17 06:12	18°♄03'43		evening rise	14391 Jan 01 06:00	2°♄11'37	
	14390 Jan 23 09:57	0°♄		desc. node	14391 Jan 11 13:00	22°♄02'48	
desc. node	14390 Jan 24 16:17	2°♄18'31			14391 Jan 16 06:58	0°♄	
	14390 Feb 11 14:48	0°♄		evening max el	14391 Feb 02 06:09	21°♄56'00	27°27'07

retrograde	14391 Feb 16 05:00	29° $\text{H}$ 16'24			14392 Jan 11 17:36	0° $\text{H}$	
evening set	14391 Feb 23 01:32	27° $\text{H}$ 06'04		evening max el	14392 Jan 15 08:46	3° $\text{H}$ 46'01	26°46'36
min. Earth dist.	14391 Feb 26 20:14	24° $\text{H}$ 14'10	0.61406 AU	retrograde	14392 Jan 29 08:05	10° $\text{H}$ 56'37	
inferior conj	14391 Mar 01 22:26	21° $\text{H}$ 27'34	-1°54'46	evening set	14392 Feb 04 22:20	9° $\text{H}$ 07'56	
minimum elong	14391 Mar 02 02:31	21° $\text{H}$ 18'21	1°52'51	min. Earth dist.	14392 Feb 08 22:40	6° $\text{H}$ 29'42	0.59207 AU
asc. node	14391 Mar 07 20:17	17° $\text{H}$ 03'07		inferior conj	14392 Feb 12 03:14	4° $\text{H}$ 00'05	-3°20'10
morning rise	14391 Mar 09 06:33	16° $\text{H}$ 29'11		minimum elong	14392 Feb 12 10:34	3° $\text{H}$ 45'42	3°17'00
direct	14391 Mar 11 10:15	16° $\text{H}$ 09'14			14392 Feb 18 06:05	30° $\text{R}$ $\approx$	
morning max el	14391 Mar 18 08:27	19° $\text{H}$ 38'35	17°50'57	morning rise	14392 Feb 20 02:01	29° $\approx$ 22'40	
	14391 Mar 26 00:04	0° $\text{Y}$		direct	14392 Feb 22 02:25	29° $\approx$ 07'53	
morning set	14391 Apr 03 00:34	14° $\text{Y}$ 00'40		asc. node	14392 Feb 22 17:45	29° $\approx$ 09'25	
desc. node	14391 Apr 09 15:11	25° $\text{Y}$ 48'27			14392 Feb 25 18:58	0° $\text{H}$	
	14391 Apr 12 00:47	0° $\text{B}$		morning max el	14392 Feb 29 20:46	2° $\text{H}$ 58'45	18°14'08
				morning set	14392 Mar 16 12:51	27° $\text{H}$ 52'51	
					14392 Mar 17 15:49	0° $\text{Y}$	
superior conj	14391 Apr 13 23:41	3° $\text{B}$ 22'01	-0°34'13				
minimum elong	14391 Apr 13 20:32	3° $\text{B}$ 08'29	0°34'12	superior conj	14392 Mar 26 02:12	15° $\text{Y}$ 39'10	0°03'14
max. Earth dist.	14391 Apr 21 05:58	15° $\text{B}$ 29'33	1.43323 AU	minimum elong	14392 Mar 26 02:25	15° $\text{Y}$ 40'12	0°03'02
evening rise	14391 Apr 27 22:46	26° $\text{B}$ 11'13		behind sun begin	14392 Mar 25 19:03	15° $\text{Y}$ 06'51	
	14391 Apr 30 09:41	0° $\text{II}$		behind sun end	14392 Mar 26 09:48	16° $\text{Y}$ 13'27	
	14391 May 21 02:39	0° $\text{B}$		desc. node	14392 Mar 26 11:42	16° $\text{Y}$ 22'02	
evening max el	14391 May 29 16:48	10° $\text{B}$ 12'14	21°44'28	max. Earth dist.	14392 Apr 02 16:44	28° $\text{Y}$ 57'25	1.41337 AU
asc. node	14391 Jun 03 17:16	14° $\text{B}$ 16'46			14392 Apr 03 07:33	0° $\text{B}$	
retrograde	14391 Jun 07 20:28	15° $\text{B}$ 33'20		evening rise	14392 Apr 07 10:30	6° $\text{B}$ 49'22	
evening set	14391 Jun 12 10:08	13° $\text{B}$ 40'27			14392 Apr 22 12:58	0° $\text{II}$	
inferior conj	14391 Jun 17 16:09	7° $\text{B}$ 24'01	3°06'23	evening max el	14392 May 11 08:41	24° $\text{II}$ 03'30	23°04'19
minimum elong	14391 Jun 17 15:18	7° $\text{B}$ 27'00	3°05'16		14392 May 20 07:20	0° $\text{B}$	
min. Earth dist.	14391 Jun 17 19:07	7° $\text{B}$ 13'38	0.68927 AU	asc. node	14392 May 20 14:27	0° $\text{B}$ 03'14	
morning rise	14391 Jun 22 20:16	1° $\text{B}$ 08'32		retrograde	14392 May 21 16:45	0° $\text{B}$ 08'37	
	14391 Jun 24 09:44	30° $\text{R}$ $\text{II}$			14392 May 23 01:04	30° $\text{R}$ $\text{II}$	
direct	14391 Jun 27 18:27	29° $\text{II}$ 01'49		evening set	14392 May 26 17:49	28° $\text{II}$ 00'46	
	14391 Jul 01 10:10	0° $\text{B}$		min. Earth dist.	14392 May 31 15:56	22° $\text{II}$ 10'25	0.68966 AU
desc. node	14391 Jul 06 15:36	3° $\text{B}$ 55'03		inferior conj	14392 Jun 01 01:53	21° $\text{II}$ 35'56	2°51'16
morning max el	14391 Jul 07 13:10	4° $\text{B}$ 47'47	22°30'56	minimum elong	14392 Jun 01 00:16	21° $\text{II}$ 41'32	2°49'59
	14391 Jul 26 21:18	0° $\text{Q}$		morning rise	14392 Jun 06 06:40	15° $\text{II}$ 27'38	
morning set	14391 Aug 10 04:07	22° $\text{Q}$ 06'51		direct	14392 Jun 10 16:11	13° $\text{II}$ 40'42	
	14391 Aug 14 22:22	0° $\text{P}$		morning max el	14392 Jun 19 05:26	18° $\text{II}$ 35'55	21°07'15
max. Earth dist.	14391 Aug 15 02:03	0° $\text{P}$ 15'36	1.40829 AU	desc. node	14392 Jun 22 12:45	22° $\text{II}$ 12'11	
					14392 Jun 28 15:25	0° $\text{B}$	
superior conj	14391 Aug 22 22:18	13° $\text{P}$ 55'19	-1°06'15		14392 Jul 19 00:00	0° $\text{Q}$	
minimum elong	14391 Aug 23 03:23	14° $\text{P}$ 18'12	1°05'52	morning set	14392 Jul 19 23:31	1° $\text{Q}$ 31'45	
asc. node	14391 Aug 30 18:01	28° $\text{P}$ 20'07		max. Earth dist.	14392 Jul 27 07:45	13° $\text{Q}$ 14'16	1.42950 AU
	14391 Aug 31 15:16	0° $\text{A}$					
evening rise	14391 Sep 02 00:57	2° $\text{A}$ 38'32		superior conj	14392 Aug 03 11:32	25° $\text{Q}$ 08'09	-1°39'39
evening max el	14391 Sep 17 23:22	28° $\text{A}$ 13'34	18°21'16	minimum elong	14392 Aug 03 18:50	25° $\text{Q}$ 39'13	1°39'32
	14391 Sep 20 00:10	0° $\text{M}$			14392 Aug 06 07:38	0° $\text{P}$	
retrograde	14391 Sep 25 12:25	2° $\text{M}$ 03'21		evening rise	14392 Aug 15 02:59	15° $\text{P}$ 33'34	
evening set	14391 Sep 27 13:44	1° $\text{M}$ 47'00		asc. node	14392 Aug 16 14:37	18° $\text{P}$ 13'03	
	14391 Oct 01 09:26	30° $\text{R}$ $\text{A}$			14392 Aug 23 08:51	0° $\text{A}$	
desc. node	14391 Oct 02 12:02	29° $\text{A}$ 14'32		evening max el	14392 Aug 31 11:02	11° $\text{A}$ 09'34	18°03'50
inferior conj	14391 Oct 05 04:15	27° $\text{A}$ 09'32	-0°51'00	retrograde	14392 Sep 07 05:07	14° $\text{A}$ 37'48	
minimum elong	14391 Oct 05 02:20	27° $\text{A}$ 13'27	0°49'50	evening set	14392 Sep 09 13:46	14° $\text{A}$ 12'25	
min. Earth dist.	14391 Oct 08 10:46	24° $\text{A}$ 30'15	0.58344 AU	inferior conj	14392 Sep 16 10:43	9° $\text{A}$ 14'47	0°35'51
morning rise	14391 Oct 12 11:28	21° $\text{A}$ 48'01		minimum elong	14392 Sep 16 11:50	9° $\text{A}$ 12'10	0°35'28
direct	14391 Oct 18 18:07	20° $\text{A}$ 04'47		desc. node	14392 Sep 18 09:34	7° $\text{A}$ 23'26	
morning max el	14391 Nov 02 01:31	27° $\text{A}$ 42'22	27°18'33	min. Earth dist.	14392 Sep 19 14:42	6° $\text{A}$ 16'11	0.60602 AU
	14391 Nov 04 07:10	0° $\text{M}$		morning rise	14392 Sep 23 06:50	3° $\text{A}$ 23'05	
	14391 Nov 24 13:58	0° $\text{J}$		direct	14392 Sep 29 21:18	1° $\text{A}$ 14'21	
asc. node	14391 Nov 26 19:42	4° $\text{J}$ 14'24		morning max el	14392 Oct 14 03:47	9° $\text{A}$ 08'15	27°55'13
morning set	14391 Dec 02 19:42	16° $\text{J}$ 27'24			14392 Oct 30 05:48	0° $\text{M}$	
	14391 Dec 08 23:44	0° $\text{B}$		asc. node	14392 Nov 12 16:32	23° $\text{M}$ 53'55	
				morning set	14392 Nov 15 23:40	0° $\text{J}$ 37'34	
superior conj	14391 Dec 09 17:05	1° $\text{B}$ 37'01	1°34'09		14392 Nov 15 16:28	0° $\text{J}$	
minimum elong	14391 Dec 09 15:55	1° $\text{B}$ 30'34	1°35'08	max. Earth dist.	14392 Nov 21 21:57	13° $\text{J}$ 25'48	1.31280 AU
max. Earth dist.	14391 Dec 09 14:41	1° $\text{B}$ 23'36	1.31140 AU				
evening rise	14391 Dec 16 11:33	16° $\text{B}$ 32'33		superior conj	14392 Nov 23 04:02	16° $\text{J}$ 12'49	1°24'30
	14391 Dec 23 02:29	0° $\approx$		minimum elong	14392 Nov 23 02:07	16° $\text{J}$ 02'09	1°25'17
desc. node	14391 Dec 29 09:51	11° $\approx$ 18'06					

	14392 Nov 29 09:30	0°♁		evening rise	14393 Nov 14 07:32	15°♁31'05	
evening rise	14392 Nov 29 20:41	1°♁00'30			14393 Nov 21 09:33	0°♁	
desc. node	14392 Dec 15 06:48	29°♁52'41		desc. node	14393 Dec 02 03:50	17°♁31'39	
	14392 Dec 15 08:42	0°♁		evening max el	14393 Dec 08 14:12	24°♁56'12	23°57'02
evening max el	14392 Dec 27 03:00	14°♁42'35	25°33'18		14393 Dec 15 11:38	0°♁	
retrograde	14393 Jan 10 00:19	21°♁42'24		retrograde	14393 Dec 22 03:33	1°♁40'32	
evening set	14393 Jan 15 22:45	20°♁21'31		evening set	14393 Dec 26 23:44	0°♁49'30	
min. Earth dist.	14393 Jan 20 15:31	17°♁42'13	0.57140 AU		14393 Dec 29 01:08	30°♁♁	
inferior conj	14393 Jan 23 12:10	15°♁45'48	-4°42'54	min. Earth dist.	14394 Jan 02 01:30	27°♁50'54	0.55506 AU
minimum elong	14393 Jan 23 21:13	15°♁30'27	4°39'43	inferior conj	14394 Jan 04 00:20	26°♁40'40	-5°43'32
morning rise	14393 Jan 31 22:25	11°♁30'27		minimum elong	14394 Jan 04 06:14	26°♁31'48	5°41'49
direct	14393 Feb 03 00:44	11°♁17'11		morning rise	14394 Jan 12 14:31	22°♁44'02	
asc. node	14393 Feb 08 15:09	12°♁58'39		direct	14394 Jan 15 03:29	22°♁27'40	
morning max el	14393 Feb 12 00:36	15°♁40'16	18°58'26	morning max el	14394 Jan 25 15:51	27°♁31'22	20°05'34
	14393 Feb 22 01:31	0°♁		asc. node	14394 Jan 26 12:31	28°♁23'10	
morning set	14393 Feb 28 11:33	12°♁12'01			14394 Jan 27 23:35	0°♁	
				morning set	14394 Feb 12 17:04	26°♁47'19	
superior conj	14393 Mar 08 23:15	28°♁46'45	0°35'23		14394 Feb 14 06:44	0°♁	
minimum elong	14393 Mar 09 01:22	28°♁56'50	0°35'10				
	14393 Mar 09 14:40	0°♁		superior conj	14394 Feb 20 10:18	12°♁31'27	1°00'57
desc. node	14393 Mar 13 08:13	6°♁56'50		minimum elong	14394 Feb 20 12:59	12°♁44'51	1°00'59
max. Earth dist.	14393 Mar 15 23:28	11°♁42'03	1.39097 AU	max. Earth dist.	14394 Feb 26 06:03	23°♁51'20	1.36855 AU
evening rise	14393 Mar 19 19:31	18°♁23'24		desc. node	14394 Feb 28 04:42	27°♁28'46	
	14393 Mar 26 20:22	0°♁			14394 Mar 01 13:48	0°♁	
	14393 Apr 16 20:49	0°♁		evening rise	14394 Mar 02 00:12	0°♁47'02	
evening max el	14393 Apr 23 22:27	7°♁56'35	24°25'07		14394 Mar 20 00:45	0°♁	
retrograde	14393 May 05 09:44	14°♁39'38		evening max el	14394 Apr 06 11:59	21°♁49'30	25°39'53
asc. node	14393 May 07 11:42	14°♁20'40		retrograde	14394 Apr 18 22:12	28°♁59'17	
evening set	14393 May 10 22:19	12°♁19'36		asc. node	14394 Apr 24 09:01	26°♁56'53	
min. Earth dist.	14393 May 15 11:45	7°♁05'43	0.68534 AU	evening set	14394 Apr 24 21:58	26°♁30'52	
inferior conj	14393 May 16 10:23	5°♁49'39	2°25'51	min. Earth dist.	14394 Apr 29 04:26	21°♁52'47	0.67651 AU
minimum elong	14393 May 16 08:18	5°♁56'39	2°24'26	inferior conj	14394 Apr 30 15:39	20°♁00'21	1°49'46
morning rise	14393 May 21 18:26	29°♁49'41		minimum elong	14394 Apr 30 13:33	20°♁07'06	1°48'23
	14393 May 21 13:02	30°♁♁		morning rise	14394 May 06 05:39	14°♁10'03	
direct	14393 May 25 15:49	28°♁23'09		direct	14394 May 09 15:44	13°♁03'00	
	14393 May 30 02:39	0°♁		morning max el	14394 May 16 10:55	16°♁43'52	18°57'35
morning max el	14393 Jun 02 04:30	2°♁35'22	19°54'59		14394 May 26 17:58	0°♁	
desc. node	14393 Jun 09 09:46	11°♁13'31		desc. node	14394 May 27 06:40	0°♁46'47	
	14393 Jun 22 08:40	0°♁		greatest brilliancy	14394 May 29 18:57	4°♁32'15	-0.7m
morning set	14393 Jun 29 03:02	10°♁18'06		morning set	14394 Jun 08 10:07	19°♁19'55	
max. Earth dist.	14393 Jul 09 19:40	26°♁58'53	1.44603 AU		14394 Jun 15 07:08	0°♁	
	14393 Jul 11 17:10	0°♁		max. Earth dist.	14394 Jun 22 12:43	11°♁16'32	1.45619 AU
superior conj	14393 Jul 15 01:06	5°♁21'25	-2°04'34	superior conj	14394 Jun 24 17:55	14°♁45'02	-2°13'46
minimum elong	14393 Jul 15 07:15	5°♁46'18	2°05'08	minimum elong	14394 Jun 24 17:44	14°♁44'22	2°14'49
evening rise	14393 Jul 28 10:32	27°♁39'18			14394 Jul 04 08:39	0°♁	
	14393 Jul 29 19:36	0°♁		evening rise	14394 Jul 09 18:43	8°♁44'27	
asc. node	14393 Aug 03 11:15	7°♁52'35		asc. node	14394 Jul 21 07:56	27°♁12'51	
evening max el	14393 Aug 15 01:29	24°♁30'39	18°05'26		14394 Jul 23 04:43	0°♁	
retrograde	14393 Aug 21 10:49	27°♁51'00		evening max el	14394 Jul 29 15:19	8°♁07'46	18°25'07
evening set	14393 Aug 24 03:52	27°♁13'12		retrograde	14394 Aug 05 01:21	11°♁33'50	
inferior conj	14393 Aug 30 10:08	21°♁57'33	1°41'09	evening set	14394 Aug 08 03:13	10°♁41'01	
minimum elong	14393 Aug 30 12:28	21°♁51'17	1°40'10	inferior conj	14394 Aug 13 22:25	5°♁09'16	2°26'26
min. Earth dist.	14393 Sep 02 04:21	19°♁00'58	0.62867 AU	minimum elong	14394 Aug 14 00:44	5°♁02'24	2°25'21
desc. node	14393 Sep 05 07:05	16°♁08'44		min. Earth dist.	14394 Aug 16 03:17	2°♁33'02	0.64918 AU
morning rise	14393 Sep 05 18:54	15°♁46'09			14394 Aug 18 12:31	30°♁♁	
direct	14393 Sep 12 11:02	13°♁18'12		morning rise	14394 Aug 19 20:56	28°♁47'36	
morning max el	14393 Sep 26 11:33	21°♁19'11	27°52'54	desc. node	14394 Aug 23 04:35	26°♁46'38	
	14393 Oct 04 01:02	0°♁		direct	14394 Aug 26 09:11	26°♁09'42	
	14393 Oct 23 08:41	0°♁			14394 Sep 04 08:32	0°♁	
morning set	14393 Oct 30 20:56	14°♁26'07		morning max el	14394 Sep 08 22:05	4°♁05'34	27°16'03
asc. node	14393 Oct 30 13:17	13°♁47'27			14394 Sep 28 13:00	0°♁	
max. Earth dist.	14393 Nov 05 00:27	25°♁12'16	1.31967 AU	morning set	14394 Oct 14 08:50	27°♁46'47	
	14393 Nov 07 05:31	0°♁			14394 Oct 15 11:58	0°♁	
				asc. node	14394 Oct 17 09:56	3°♁50'01	
superior conj	14393 Nov 07 12:28	0°♁38'00	1°09'02	max. Earth dist.	14394 Oct 18 18:52	6°♁37'59	1.33202 AU
minimum elong	14393 Nov 07 10:10	0°♁25'28	1°09'33				

superior conj	14394 Oct 22 16:14	14° $\mathbb{M}$ 46'57	0°47'47	superior conj	14395 Oct 06 12:48	28° $\mathbb{A}$ 32'09	0°20'58
minimum elong	14394 Oct 22 14:08	14° $\mathbb{M}$ 35'46	0°48'04	minimum elong	14395 Oct 06 11:38	28° $\mathbb{A}$ 26'12	0°21'08
evening rise	14394 Oct 29 18:17	29° $\mathbb{M}$ 59'50			14395 Oct 07 05:53	0° $\mathbb{M}$	
	14394 Oct 29 18:19	0° $\mathbb{A}$		evening rise	14395 Oct 14 02:56	14° $\mathbb{M}$ 20'40	
	14394 Nov 15 16:18	0° $\mathbb{B}$			14395 Oct 22 01:57	0° $\mathbb{A}$	
desc. node	14394 Nov 19 01:00	3° $\mathbb{B}$ 55'06		evening max el	14395 Nov 01 20:57	15° $\mathbb{A}$ 17'37	20°42'41
evening max el	14394 Nov 20 01:05	4° $\mathbb{B}$ 56'07	22°14'40	desc. node	14395 Nov 05 22:17	18° $\mathbb{A}$ 36'50	
retrograde	14394 Dec 02 18:19	11° $\mathbb{B}$ 14'03		retrograde	14395 Nov 13 04:43	20° $\mathbb{A}$ 55'28	
evening set	14394 Dec 06 06:06	10° $\mathbb{B}$ 47'12		evening set	14395 Nov 15 13:46	20° $\mathbb{A}$ 41'42	
inferior conj	14394 Dec 14 20:20	6° $\mathbb{B}$ 53'12	-5°57'00	inferior conj	14395 Nov 24 11:43	16° $\mathbb{A}$ 47'46	-5°10'05
minimum elong	14394 Dec 14 17:40	6° $\mathbb{B}$ 56'57	5°55'49	minimum elong	14395 Nov 24 02:14	17° $\mathbb{A}$ 01'23	5°07'00
min. Earth dist.	14394 Dec 14 07:44	7° $\mathbb{B}$ 10'53	0.54590 AU	min. Earth dist.	14395 Nov 25 13:33	16° $\mathbb{A}$ 10'38	0.54575 AU
morning rise	14394 Dec 23 06:17	3° $\mathbb{B}$ 05'59		morning rise	14395 Dec 02 14:43	12° $\mathbb{A}$ 52'10	
direct	14394 Dec 26 15:26	2° $\mathbb{B}$ 40'26		direct	14395 Dec 06 23:19	12° $\mathbb{A}$ 11'29	
morning max el	14395 Jan 07 16:20	8° $\mathbb{B}$ 27'11	21°35'13	morning max el	14395 Dec 20 05:02	18° $\mathbb{A}$ 37'47	23°21'26
asc. node	14395 Jan 13 09:48	15° $\mathbb{B}$ 06'36			14395 Dec 29 11:04	0° $\mathbb{B}$	
	14395 Jan 22 09:43	0° $\approx$		asc. node	14395 Dec 31 07:00	2° $\mathbb{B}$ 50'33	
morning set	14395 Jan 28 02:45	11° $\approx$ 31'10		morning set	14396 Jan 12 14:25	26° $\mathbb{B}$ 16'26	
					14396 Jan 14 08:02	0° $\approx$	
superior conj	14395 Feb 04 07:31	26° $\approx$ 42'43	1°19'40	superior conj	14396 Jan 19 11:44	11° $\approx$ 10'55	1°31'43
minimum elong	14395 Feb 04 09:52	26° $\approx$ 54'59	1°20'03	minimum elong	14396 Jan 19 13:15	11° $\approx$ 19'06	1°32'28
	14395 Feb 05 21:34	0° $\mathbb{H}$		max. Earth dist.	14396 Jan 22 12:13	17° $\approx$ 37'32	1.33178 AU
max. Earth dist.	14395 Feb 08 17:26	5° $\mathbb{H}$ 44'36	1.34833 AU	evening rise	14396 Jan 27 07:00	27° $\approx$ 25'12	
evening rise	14395 Feb 12 21:14	13° $\mathbb{H}$ 50'57			14396 Jan 28 14:28	0° $\mathbb{H}$	
desc. node	14395 Feb 15 01:15	17° $\mathbb{H}$ 54'12		desc. node	14396 Feb 01 21:51	8° $\mathbb{H}$ 07'59	
	14395 Feb 21 22:21	0° $\mathbb{Y}$			14396 Feb 15 04:54	0° $\mathbb{Y}$	
	14395 Mar 14 20:38	0° $\mathbb{B}$		evening max el	14396 Mar 01 15:12	19° $\mathbb{Y}$ 05'15	27°21'34
evening max el	14395 Mar 20 01:53	5° $\mathbb{B}$ 36'08	26°41'07	retrograde	14396 Mar 15 05:49	26° $\mathbb{Y}$ 34'07	
retrograde	14395 Apr 02 05:10	13° $\mathbb{B}$ 00'26		evening set	14396 Mar 21 23:19	24° $\mathbb{Y}$ 04'24	
evening set	14395 Apr 08 15:00	10° $\mathbb{B}$ 28'22		min. Earth dist.	14396 Mar 25 19:41	20° $\mathbb{Y}$ 32'57	0.64649 AU
asc. node	14395 Apr 11 06:24	7° $\mathbb{B}$ 58'25		inferior conj	14396 Mar 28 07:33	17° $\mathbb{Y}$ 51'14	0°02'57
min. Earth dist.	14395 Apr 12 15:46	6° $\mathbb{B}$ 24'52	0.66345 AU	minimum elong	14396 Mar 28 07:28	17° $\mathbb{Y}$ 51'28	0°02'42
inferior conj	14395 Apr 14 15:33	4° $\mathbb{B}$ 03'07	1°02'23	transit middle	14396 Mar 28 07:28	17° $\mathbb{Y}$ 51'28	0°02'42
minimum elong	14395 Apr 14 14:03	4° $\mathbb{B}$ 07'36	1°01'20	transit begin	14396 Mar 28 04:27	17° $\mathbb{Y}$ 59'40	
	14395 Apr 18 09:41	30° $\mathbb{R}$ $\mathbb{Y}$		transit end	14396 Mar 28 10:29	17° $\mathbb{Y}$ 43'16	
morning rise	14395 Apr 20 14:13	28° $\mathbb{Y}$ 24'16		asc. node	14396 Mar 28 03:51	18° $\mathbb{Y}$ 01'17	
direct	14395 Apr 23 14:03	27° $\mathbb{Y}$ 34'32		morning rise	14396 Apr 03 17:34	12° $\mathbb{Y}$ 26'10	
	14395 Apr 28 22:39	0° $\mathbb{B}$		direct	14396 Apr 06 08:16	11° $\mathbb{Y}$ 50'49	
morning max el	14395 Apr 29 23:38	0° $\mathbb{B}$ 56'55	18°16'39	morning max el	14396 Apr 12 16:21	15° $\mathbb{Y}$ 07'04	17°52'50
desc. node	14395 May 14 03:27	20° $\mathbb{B}$ 43'23			14396 Apr 23 09:28	0° $\mathbb{B}$	
morning set	14395 May 19 15:29	29° $\mathbb{B}$ 29'09		morning set	14396 Apr 30 00:57	10° $\mathbb{B}$ 59'47	
	14395 May 19 23:13	0° $\mathbb{II}$		desc. node	14396 Apr 30 00:10	10° $\mathbb{B}$ 56'31	
					14396 May 11 14:51	0° $\mathbb{II}$	
superior conj	14395 Jun 04 02:06	23° $\mathbb{II}$ 52'18	-2°02'55	superior conj	14396 May 13 19:06	3° $\mathbb{II}$ 29'17	-1°34'38
minimum elong	14395 Jun 03 18:49	23° $\mathbb{II}$ 23'54	2°03'31	minimum elong	14396 May 13 10:21	2° $\mathbb{II}$ 54'19	1°34'36
max. Earth dist.	14395 Jun 05 08:53	25° $\mathbb{II}$ 52'32	1.45902 AU	max. Earth dist.	14396 May 18 05:07	10° $\mathbb{II}$ 29'07	1.45425 AU
	14395 Jun 08 00:21	0° $\mathbb{B}$		evening rise	14396 May 29 16:56	28° $\mathbb{II}$ 18'10	
evening rise	14395 Jun 20 02:29	18° $\mathbb{B}$ 50'05			14396 May 30 19:33	0° $\mathbb{B}$	
	14395 Jun 27 06:41	0° $\mathbb{Q}$		greatest brilliancy	14396 Jun 13 10:20	20° $\mathbb{B}$ 25'07	-0.6m
greatest brilliancy	14395 Jun 30 16:48	5° $\mathbb{Q}$ 15'22	-0.8m		14396 Jun 20 08:37	0° $\mathbb{Q}$	
asc. node	14395 Jul 08 04:42	16° $\mathbb{Q}$ 07'01		asc. node	14396 Jun 24 01:35	4° $\mathbb{Q}$ 26'25	
evening max el	14395 Jul 13 01:49	21° $\mathbb{Q}$ 53'43	19°01'57	evening max el	14396 Jun 25 07:06	5° $\mathbb{Q}$ 43'39	19°54'46
retrograde	14395 Jul 19 21:14	25° $\mathbb{Q}$ 38'44		retrograde	14396 Jul 02 19:49	9° $\mathbb{Q}$ 59'48	
evening set	14395 Jul 23 08:20	24° $\mathbb{Q}$ 29'20		evening set	14396 Jul 06 16:38	8° $\mathbb{Q}$ 33'17	
inferior conj	14395 Jul 28 20:00	18° $\mathbb{Q}$ 43'05	2°54'39	inferior conj	14396 Jul 11 23:58	2° $\mathbb{Q}$ 33'58	3°08'37
minimum elong	14395 Jul 28 21:38	18° $\mathbb{Q}$ 37'51	2°53'39	minimum elong	14396 Jul 12 00:38	2° $\mathbb{Q}$ 31'42	3°07'38
min. Earth dist.	14395 Jul 30 10:25	16° $\mathbb{Q}$ 40'13	0.66619 AU	min. Earth dist.	14396 Jul 13 00:10	1° $\mathbb{Q}$ 12'18	0.67885 AU
morning rise	14395 Aug 03 10:13	12° $\mathbb{Q}$ 18'01			14396 Jul 13 22:04	30° $\mathbb{R}$ $\mathbb{B}$	
direct	14395 Aug 09 14:23	9° $\mathbb{Q}$ 39'40		morning rise	14396 Jul 17 08:16	26° $\mathbb{B}$ 10'13	
desc. node	14395 Aug 10 02:04	9° $\mathbb{Q}$ 40'33		direct	14396 Jul 23 01:42	23° $\mathbb{B}$ 39'32	
morning max el	14395 Aug 22 09:16	17° $\mathbb{Q}$ 16'25	26°12'16	desc. node	14396 Jul 26 23:28	24° $\mathbb{B}$ 37'18	
	14395 Sep 02 00:33	0° $\mathbb{P}$			14396 Aug 03 02:58	0° $\mathbb{Q}$	
	14395 Sep 21 11:31	0° $\mathbb{A}$		morning max el	14396 Aug 03 20:05	0° $\mathbb{Q}$ 42'35	24°51'01
morning set	14395 Sep 27 08:02	10° $\mathbb{A}$ 30'58			14396 Aug 25 22:44	0° $\mathbb{P}$	
max. Earth dist.	14395 Oct 01 03:33	17° $\mathbb{A}$ 46'07	1.34956 AU	morning set	14396 Sep 08 14:39	22° $\mathbb{P}$ 30'27	
asc. node	14395 Oct 04 06:32	23° $\mathbb{A}$ 56'44					

max. Earth dist.	14396 Sep 12 04:14	28° $\mathbb{M}$ 55'10	1.37119 AU	morning max el	14397 Jul 17 06:52	14° $\mathbb{G}$ 16'45	23°21'56
	14396 Sep 12 18:21	0° $\mathbb{L}$			14397 Jul 30 01:32	0° $\mathbb{Q}$	
					14397 Aug 18 20:31	0° $\mathbb{M}$	
superior conj	14396 Sep 18 23:07	11° $\mathbb{L}$ 46'56	-0°10'44	morning set	14397 Aug 21 00:08	3° $\mathbb{M}$ 33'58	
minimum elong	14396 Sep 18 23:48	11° $\mathbb{L}$ 50'18	0°10'30	max. Earth dist.	14397 Aug 25 02:12	10° $\mathbb{M}$ 31'36	1.39484 AU
behind sun begin	14396 Sep 18 18:45	11° $\mathbb{L}$ 25'37					
behind sun end	14396 Sep 19 04:51	12° $\mathbb{L}$ 15'02		superior conj	14397 Sep 01 19:21	24° $\mathbb{M}$ 22'05	-0°45'44
asc. node	14396 Sep 20 03:06	14° $\mathbb{L}$ 04'30		minimum elong	14397 Sep 01 22:44	24° $\mathbb{M}$ 37'46	0°45'21
evening rise	14396 Sep 27 07:15	28° $\mathbb{L}$ 28'28			14397 Sep 04 19:24	0° $\mathbb{L}$	
	14396 Sep 28 01:29	0° $\mathbb{M}$		asc. node	14397 Sep 06 23:40	4° $\mathbb{L}$ 09'22	
evening max el	14396 Oct 14 07:01	26° $\mathbb{M}$ 25'09	19°30'29	evening rise	14397 Sep 11 04:22	12° $\mathbb{L}$ 15'27	
	14396 Oct 19 00:05	0° $\mathbb{X}$			14397 Sep 20 22:15	0° $\mathbb{M}$	
desc. node	14396 Oct 22 19:39	1° $\mathbb{X}$ 11'52		evening max el	14397 Sep 27 06:14	8° $\mathbb{M}$ 21'40	18°40'23
retrograde	14396 Oct 23 23:27	1° $\mathbb{X}$ 15'52		retrograde	14397 Oct 05 11:16	12° $\mathbb{M}$ 30'02	
evening set	14396 Oct 25 20:47	1° $\mathbb{X}$ 05'37		evening set	14397 Oct 07 09:20	12° $\mathbb{M}$ 17'14	
	14396 Oct 29 06:53	30° $\mathbb{R}$ $\mathbb{M}$		desc. node	14397 Oct 09 17:06	11° $\mathbb{M}$ 30'10	
inferior conj	14396 Nov 03 13:14	26° $\mathbb{M}$ 59'48	-3°37'12	inferior conj	14397 Oct 15 10:23	7° $\mathbb{M}$ 52'23	-1°49'27
minimum elong	14396 Nov 03 04:16	27° $\mathbb{M}$ 14'10	3°33'17	minimum elong	14397 Oct 15 05:55	8° $\mathbb{M}$ 00'43	1°47'07
min. Earth dist.	14396 Nov 05 22:41	25° $\mathbb{M}$ 27'48	0.55484 AU	min. Earth dist.	14397 Oct 18 13:35	5° $\mathbb{M}$ 32'54	0.57154 AU
morning rise	14396 Nov 11 09:43	22° $\mathbb{M}$ 35'59		morning rise	14397 Oct 22 23:07	2° $\mathbb{M}$ 51'28	
direct	14396 Nov 16 15:39	21° $\mathbb{M}$ 34'12		direct	14397 Oct 28 22:30	1° $\mathbb{M}$ 23'29	
morning max el	14396 Nov 30 14:31	28° $\mathbb{M}$ 34'11	25°09'26	morning max el	14397 Nov 12 04:31	8° $\mathbb{M}$ 49'54	26°40'17
	14396 Dec 02 01:10	0° $\mathbb{X}$			14397 Nov 28 04:10	0° $\mathbb{X}$	
asc. node	14396 Dec 17 04:08	21° $\mathbb{X}$ 20'24		asc. node	14397 Dec 04 01:08	10° $\mathbb{X}$ 24'13	
	14396 Dec 21 19:00	0° $\mathbb{Z}$		morning set	14397 Dec 11 12:25	25° $\mathbb{X}$ 31'07	
morning set	14396 Dec 27 02:13	10° $\mathbb{Z}$ 58'03			14397 Dec 13 13:59	0° $\mathbb{Z}$	
superior conj	14397 Jan 02 20:27	25° $\mathbb{Z}$ 49'05	1°37'25	superior conj	14397 Dec 18 07:33	10° $\mathbb{Z}$ 30'50	1°37'03
minimum elong	14397 Jan 02 20:55	25° $\mathbb{Z}$ 51'39	1°38'24	minimum elong	14397 Dec 18 06:57	10° $\mathbb{Z}$ 27'29	1°38'06
max. Earth dist.	14397 Jan 04 14:03	29° $\mathbb{Z}$ 37'37	1.31981 AU	max. Earth dist.	14397 Dec 18 20:41	11° $\mathbb{Z}$ 44'10	1.31288 AU
	14397 Jan 04 18:09	0° $\mathbb{A}$		evening rise	14397 Dec 25 04:56	25° $\mathbb{Z}$ 36'16	
evening rise	14397 Jan 10 02:26	11° $\mathbb{A}$ 22'28			14397 Dec 27 07:31	0° $\mathbb{A}$	
desc. node	14397 Jan 18 18:31	28° $\mathbb{A}$ 04'51		desc. node	14398 Jan 05 15:18	17° $\mathbb{A}$ 37'49	
	14397 Jan 19 20:31	0° $\mathbb{H}$			14398 Jan 13 10:43	0° $\mathbb{H}$	
	14397 Feb 10 00:17	0° $\mathbb{Y}$		evening max el	14398 Jan 25 08:46	14° $\mathbb{H}$ 24'05	27°14'18
evening max el	14397 Feb 12 02:13	2° $\mathbb{Y}$ 05'03	27°34'24	retrograde	14398 Feb 08 08:36	21° $\mathbb{H}$ 41'24	
retrograde	14397 Feb 25 23:23	9° $\mathbb{Y}$ 30'55		evening set	14398 Feb 15 03:13	19° $\mathbb{H}$ 39'24	
evening set	14397 Mar 04 20:25	7° $\mathbb{Y}$ 10'58		min. Earth dist.	14398 Feb 18 23:17	16° $\mathbb{H}$ 54'40	0.60460 AU
min. Earth dist.	14397 Mar 08 14:31	4° $\mathbb{Y}$ 06'49	0.62646 AU	inferior conj	14398 Feb 22 03:28	14° $\mathbb{H}$ 12'59	-2°30'28
inferior conj	14397 Mar 11 12:40	1° $\mathbb{Y}$ 17'24	-1°08'37	minimum elong	14398 Feb 22 08:58	14° $\mathbb{H}$ 01'17	2°27'57
minimum elong	14397 Mar 11 14:59	1° $\mathbb{Y}$ 11'48	1°07'35	morning rise	14398 Mar 01 17:59	9° $\mathbb{H}$ 23'19	
	14397 Mar 12 21:11	30° $\mathbb{R}$ $\mathbb{H}$		asc. node	14398 Mar 01 22:50	9° $\mathbb{H}$ 20'09	
asc. node	14397 Mar 15 01:21	28° $\mathbb{H}$ 08'08		direct	14398 Mar 03 19:37	9° $\mathbb{H}$ 06'08	
morning rise	14397 Mar 18 12:20	26° $\mathbb{H}$ 08'44		morning max el	14398 Mar 11 01:31	12° $\mathbb{H}$ 43'43	17°58'22
direct	14397 Mar 20 19:22	25° $\mathbb{H}$ 44'18			14398 Mar 22 16:33	0° $\mathbb{Y}$	
morning max el	14397 Mar 27 10:06	29° $\mathbb{H}$ 05'50	17°46'25	morning set	14398 Mar 26 15:13	7° $\mathbb{Y}$ 10'45	
	14397 Mar 28 07:10	0° $\mathbb{Y}$		desc. node	14398 Apr 03 17:20	21° $\mathbb{Y}$ 52'24	
morning set	14397 Apr 12 10:52	23° $\mathbb{Y}$ 39'31					
	14397 Apr 16 02:07	0° $\mathbb{B}$		superior conj	14398 Apr 05 22:59	25° $\mathbb{Y}$ 49'10	-0°17'53
desc. node	14397 Apr 16 20:47	1° $\mathbb{B}$ 20'49		minimum elong	14398 Apr 05 21:26	25° $\mathbb{Y}$ 42'21	0°17'59
					14398 Apr 08 08:49	0° $\mathbb{B}$	
superior conj	14397 Apr 24 09:04	14° $\mathbb{B}$ 06'05	-0°56'58	max. Earth dist.	14398 Apr 13 11:35	8° $\mathbb{B}$ 37'28	1.42523 AU
minimum elong	14397 Apr 24 03:31	13° $\mathbb{B}$ 43'01	0°56'49	evening rise	14398 Apr 19 05:33	17° $\mathbb{B}$ 56'10	
max. Earth dist.	14397 Apr 30 22:25	24° $\mathbb{B}$ 48'04	1.44256 AU		14398 Apr 27 00:39	0° $\mathbb{I}$	
	14397 May 04 04:55	0° $\mathbb{I}$			14398 May 18 20:27	0° $\mathbb{G}$	
evening rise	14397 May 09 04:54	7° $\mathbb{I}$ 47'33		evening max el	14398 May 22 00:37	3° $\mathbb{G}$ 25'27	22°17'53
	14397 May 24 01:44	0° $\mathbb{G}$		asc. node	14398 May 28 19:42	8° $\mathbb{G}$ 28'53	
evening max el	14397 Jun 08 06:24	19° $\mathbb{G}$ 34'03	21°01'23	retrograde	14398 May 31 16:29	9° $\mathbb{G}$ 05'43	
asc. node	14397 Jun 10 22:36	21° $\mathbb{G}$ 58'37		evening set	14398 Jun 05 10:50	7° $\mathbb{G}$ 06'29	
retrograde	14397 Jun 16 18:49	24° $\mathbb{G}$ 30'30		inferior conj	14398 Jun 10 17:29	0° $\mathbb{G}$ 46'11	3°01'15
evening set	14397 Jun 21 02:04	22° $\mathbb{G}$ 47'05		minimum elong	14398 Jun 10 16:17	0° $\mathbb{G}$ 50'23	3°00'03
inferior conj	14397 Jun 26 07:51	16° $\mathbb{G}$ 36'19	3°10'23	min. Earth dist.	14398 Jun 10 15:00	0° $\mathbb{G}$ 54'51	0.69006 AU
minimum elong	14397 Jun 26 07:31	16° $\mathbb{G}$ 37'27	3°09'20		14398 Jun 11 06:44	30° $\mathbb{R}$ $\mathbb{I}$	
min. Earth dist.	14397 Jun 26 18:27	15° $\mathbb{G}$ 59'30	0.68683 AU	morning rise	14398 Jun 15 21:32	24° $\mathbb{I}$ 33'20	
morning rise	14397 Jul 01 12:43	10° $\mathbb{G}$ 17'00		direct	14398 Jun 20 14:21	22° $\mathbb{I}$ 34'38	
direct	14397 Jul 06 18:04	8° $\mathbb{G}$ 00'11		morning max el	14398 Jun 29 20:06	27° $\mathbb{I}$ 58'43	21°54'05
desc. node	14397 Jul 13 20:48	11° $\mathbb{G}$ 10'11		desc. node	14398 Jun 30 18:00	28° $\mathbb{I}$ 54'59	



	14398 Jul 01 18:06	0°☿		direct	14399 Jun 04 13:09	7°♊16'00	
	14398 Jul 23 15:54	0°♊		morning max el	14399 Jun 12 14:57	11°♊51'12	20°34'46
morning set	14398 Aug 01 09:06	13°♊33'29		desc. node	14399 Jun 17 15:05	17°♊32'27	
max. Earth dist.	14398 Aug 07 03:53	22°♊58'10	1.41782 AU		14399 Jun 26 18:06	0°☿	
	14398 Aug 11 08:06	0°♈		morning set	14399 Jul 11 19:58	22°☿36'57	
					14399 Jul 16 13:23	0°♊	
superior conj	14398 Aug 14 21:08	6°♈07'59	-1°21'02	max. Earth dist.	14399 Jul 20 12:35	6°♊19'06	1.43732 AU
minimum elong	14398 Aug 15 03:23	6°♈35'22	1°20'42				
asc. node	14398 Aug 24 20:14	24°♈07'50		superior conj	14399 Jul 27 00:28	16°♊55'56	-1°51'41
evening rise	14398 Aug 25 14:36	25°♈32'32		minimum elong	14399 Jul 27 07:52	17°♊26'44	1°51'50
	14398 Aug 28 00:46	0°♈			14399 Aug 03 17:19	0°♈	
evening max el	14398 Sep 10 14:39	20°♈59'22	18°11'28	evening rise	14399 Aug 08 09:24	8°♈08'17	
retrograde	14398 Sep 17 18:08	24°♈37'48		asc. node	14399 Aug 11 16:50	13°♈55'50	
evening set	14398 Sep 19 22:29	24°♈18'00			14399 Aug 21 16:13	0°♈	
desc. node	14398 Sep 26 14:36	20°♈03'46		evening max el	14399 Aug 25 03:59	4°♈07'39	18°02'15
inferior conj	14398 Sep 27 05:19	19°♈31'57	-0°11'33	retrograde	14399 Aug 31 16:58	7°♈30'38	
minimum elong	14398 Sep 27 04:55	19°♈32'49	0°11'09	evening set	14399 Sep 03 05:15	7°♈00'11	
transit middle	14398 Sep 27 04:55	19°♈32'49	0°11'09	inferior conj	14399 Sep 09 19:30	1°♈54'22	1°06'10
transit begin	14398 Sep 27 02:26	19°♈38'12		minimum elong	14399 Sep 09 21:19	1°♈49'49	1°05'27
transit end	14398 Sep 27 07:23	19°♈27'25			14399 Sep 11 17:01	30°♈	
min. Earth dist.	14398 Sep 30 12:04	16°♈41'43	0.59295 AU	min. Earth dist.	14399 Sep 12 19:51	28°♈54'29	0.61584 AU
morning rise	14398 Oct 04 07:57	13°♈56'40		desc. node	14399 Sep 13 12:06	28°♈16'28	
direct	14398 Oct 10 19:01	12°♈01'46		morning rise	14399 Sep 16 10:45	25°♈53'19	
morning max el	14398 Oct 25 02:11	19°♈47'04	27°38'56	direct	14399 Sep 23 02:42	23°♈35'40	
	14398 Nov 02 20:02	0°♈			14399 Oct 05 16:05	0°♈	
asc. node	14398 Nov 20 22:01	29°♈52'49		morning max el	14399 Oct 07 07:01	1°♈32'50	27°58'53
	14398 Nov 20 23:29	0°♈			14399 Oct 28 03:03	0°♈	
morning set	14398 Nov 25 19:10	9°♈50'39		asc. node	14399 Nov 07 18:48	19°♈39'15	
max. Earth dist.	14398 Dec 02 04:47	23°♈50'28	1.31129 AU	morning set	14399 Nov 09 20:32	23°♈52'24	
					14399 Nov 12 18:25	0°♈	
superior conj	14398 Dec 02 19:03	25°♈10'10	1°30'47	max. Earth dist.	14399 Nov 15 10:39	5°♈48'06	1.31510 AU
minimum elong	14398 Dec 02 17:32	25°♈01'41	1°31'42				
	14398 Dec 04 22:55	0°♈		superior conj	14399 Nov 17 05:09	9°♈42'15	1°18'40
evening rise	14398 Dec 09 12:12	10°♈00'33		minimum elong	14399 Nov 17 03:01	9°♈30'27	1°19'20
	14398 Dec 19 14:49	0°♈		evening rise	14399 Nov 23 22:18	24°♈30'41	
desc. node	14398 Dec 23 12:11	6°♈37'02			14399 Nov 26 12:16	0°♈	
evening max el	14399 Jan 07 08:10	25°♈51'51	26°19'17	desc. node	14399 Dec 10 09:09	24°♈50'11	
	14399 Jan 12 12:04	0°♈			14399 Dec 14 03:49	0°♈	
retrograde	14399 Jan 21 07:15	2°♈57'40		evening max el	14399 Dec 19 23:02	6°♈27'58	24°54'17
evening set	14399 Jan 27 15:48	1°♈20'39		retrograde	14400 Jan 02 17:30	13°♈21'19	
	14399 Jan 30 00:32	30°♈		evening set	14400 Jan 08 06:16	12°♈13'12	
min. Earth dist.	14399 Jan 31 21:39	28°♈43'46	0.58287 AU	min. Earth dist.	14400 Jan 13 10:56	9°♈28'15	0.56378 AU
inferior conj	14399 Feb 04 00:09	26°♈26'41	-3°56'33	inferior conj	14400 Jan 16 00:04	7°♈50'28	-5°12'48
minimum elong	14399 Feb 04 08:34	26°♈11'08	3°53'09	minimum elong	14400 Jan 16 08:33	7°♈36'52	5°10'07
morning rise	14399 Feb 12 04:24	21°♈58'18		morning rise	14400 Jan 24 13:05	3°♈43'44	
direct	14399 Feb 14 04:44	21°♈44'38		direct	14400 Jan 26 18:57	3°♈29'40	
asc. node	14399 Feb 16 20:17	22°♈09'28		asc. node	14400 Feb 03 17:40	6°♈40'29	
morning max el	14399 Feb 22 10:39	25°♈48'24	18°30'17	morning max el	14400 Feb 05 09:26	8°♈08'53	19°24'10
	14399 Feb 26 00:47	0°♈			14400 Feb 19 12:59	0°♈	
morning set	14399 Mar 10 08:27	21°♈16'02		morning set	14400 Feb 22 10:23	5°♈43'01	
	14399 Mar 14 21:38	0°♈					
superior conj	14399 Mar 19 09:54	8°♈29'01	0°17'36	superior conj	14400 Mar 01 13:24	21°♈53'27	0°47'04
minimum elong	14399 Mar 19 11:07	8°♈34'38	0°17'21	minimum elong	14400 Mar 01 15:53	22°♈05'34	0°46'55
desc. node	14399 Mar 21 13:50	12°♈26'49			14400 Mar 05 19:21	0°♈	
max. Earth dist.	14399 Mar 26 20:31	21°♈47'32	1.40405 AU	desc. node	14400 Mar 07 10:21	3°♈00'39	
evening rise	14399 Mar 31 02:21	28°♈58'41		max. Earth dist.	14400 Mar 08 02:59	4°♈16'44	1.38132 AU
	14399 Mar 31 17:10	0°♈		evening rise	14400 Mar 11 20:01	10°♈54'12	
	14399 Apr 20 12:25	0°♈			14400 Mar 23 11:03	0°♈	
evening max el	14399 May 04 15:31	17°♈18'14	23°38'56	evening max el	14400 Apr 15 00:44	0°♈	
retrograde	14399 May 15 11:20	23°♈39'52		retrograde	14400 Apr 16 05:02	1°♈11'39	24°58'02
asc. node	14399 May 15 16:54	23°♈39'37			14400 Apr 28 02:23	8°♈06'57	
evening set	14399 May 20 17:19	21°♈26'36		asc. node	14400 May 01 14:11	7°♈14'46	
min. Earth dist.	14399 May 25 11:38	15°♈51'48	0.68849 AU	evening set	14400 May 03 19:58	5°♈42'40	
inferior conj	14399 May 26 02:55	14°♈59'24	2°41'45	min. Earth dist.	14400 May 08 06:13	0°♈44'25	0.68219 AU
minimum elong	14399 May 26 01:04	15°♈05'46	2°40'24		14400 May 08 19:44	30°♈	
morning rise	14399 May 31 08:46	8°♈54'29		inferior conj	14400 May 09 10:15	29°♈12'03	2°11'52
				minimum elong	14400 May 09 08:06	29°♈19'10	2°10'26

morning rise	14400 May 14 20:32	23°♄16'17	direct	14401 May 02 12:25	6°♄35'32	
direct	14400 May 18 13:03	21°♄58'13	morning max el	14401 May 09 02:40	10°♄07'07	18°38'13
morning max el	14400 May 25 17:13	25°♄55'05 19°28'39	desc. node	14401 May 21 08:55	26°♄32'56	
	14400 May 29 09:07	0°♄		14401 May 23 14:47	0°♄	
desc. node	14400 Jun 03 12:03	6°♄48'31	morning set	14401 May 30 13:25	10°♄49'49	
greatest brilliancy	14400 Jun 07 08:17	12°♄20'55 -0.7m		14401 Jun 11 19:54	0°♄	
	14400 Jun 19 00:46	0°♄	max. Earth dist.	14401 Jun 14 22:10	4°♄49'39	1.45826 AU
morning set	14400 Jun 19 22:23	1°♄22'59				
max. Earth dist.	14400 Jul 02 03:32	20°♄21'56 1.45125 AU	superior conj	14401 Jun 15 15:35	5°♄57'39 -2°11'39	
			minimum elong	14401 Jun 15 12:02	5°♄43'45 2°12'36	
superior conj	14400 Jul 06 04:19	26°♄45'23 -2°10'46		14401 Jun 30 21:48	0°♄	
minimum elong	14400 Jul 06 08:20	27°♄01'25 2°11'38	evening rise	14401 Jul 01 05:15	0°♄29'35	
	14400 Jul 08 04:58	0°♄	greatest brilliancy	14401 Jul 08 14:07	12°♄12'16 -0.9m	
evening rise	14400 Jul 20 07:32	19°♄49'45	asc. node	14401 Jul 15 10:12	22°♄38'53	
	14400 Jul 26 10:26	0°♄		14401 Jul 21 01:25	0°♄	
asc. node	14400 Jul 28 13:28	3°♄28'03	evening max el	14401 Jul 22 07:12	1°♄18'22 18°38'39	
evening max el	14400 Aug 07 18:30	17°♄36'19 18°11'34	retrograde	14401 Jul 28 20:22	4°♄51'18	
retrograde	14400 Aug 14 03:03	20°♄57'43	evening set	14401 Aug 01 01:59	3°♄51'45	
evening set	14400 Aug 16 23:47	20°♄13'45		14401 Aug 05 06:15	30°♄	
inferior conj	14400 Aug 23 00:52	14°♄50'43 2°02'39	inferior conj	14401 Aug 06 17:35	28°♄13'36 2°40'17	
minimum elong	14400 Aug 23 03:18	14°♄43'52 2°01'35	minimum elong	14401 Aug 06 19:39	28°♄07'12 2°39'14	
min. Earth dist.	14400 Aug 25 13:32	12°♄01'02 0.63774 AU	min. Earth dist.	14401 Aug 08 16:22	25°♄50'06 0.65690 AU	
morning rise	14400 Aug 29 05:04	8°♄33'46	morning rise	14401 Aug 12 12:17	21°♄49'28	
desc. node	14400 Aug 30 09:37	7°♄43'16	desc. node	14401 Aug 17 07:07	19°♄19'35	
direct	14400 Sep 04 19:56	6°♄00'45	direct	14401 Aug 18 21:25	19°♄10'09	
morning max el	14400 Sep 18 16:30	14°♄01'04 27°41'06	morning max el	14401 Sep 01 03:47	27°♄00'34 26°51'34	
	14400 Oct 01 15:15	0°♄		14401 Sep 03 23:02	0°♄	
	14400 Oct 19 17:35	0°♄		14401 Sep 25 06:45	0°♄	
morning set	14400 Oct 23 14:09	7°♄29'52	morning set	14401 Oct 06 21:08	20°♄36'32	
asc. node	14400 Oct 24 15:29	9°♄37'11	max. Earth dist.	14401 Oct 11 00:32	28°♄43'50 1.33892 AU	
max. Earth dist.	14400 Oct 28 10:18	17°♄27'10 1.32431 AU	asc. node	14401 Oct 11 12:08	29°♄42'16	
				14401 Oct 11 15:39	0°♄	
superior conj	14400 Oct 31 11:50	24°♄00'53 1°00'43				
minimum elong	14400 Oct 31 09:33	23°♄48'29 1°01'07	superior conj	14401 Oct 15 12:53	8°♄00'37 0°37'03	
	14400 Nov 03 05:47	0°♄	minimum elong	14401 Oct 15 11:04	7°♄51'09 0°37'15	
evening rise	14400 Nov 07 09:20	9°♄00'56	evening rise	14401 Oct 22 19:26	23°♄26'52	
	14400 Nov 18 02:33	0°♄		14401 Oct 25 23:09	0°♄	
desc. node	14400 Nov 26 06:15	11°♄59'37	evening max el	14401 Nov 11 22:15	26°♄34'41 21°33'25	
evening max el	14400 Nov 30 08:40	16°♄29'55 23°13'00	desc. node	14401 Nov 13 03:27	27°♄43'06	
retrograde	14400 Dec 13 15:08	23°♄05'18		14401 Nov 16 02:16	0°♄	
evening set	14400 Dec 17 21:53	22°♄25'28	retrograde	14401 Nov 24 03:06	2°♄37'30	
min. Earth dist.	14400 Dec 24 18:32	19°♄13'00 0.55015 AU	evening set	14401 Nov 27 01:37	2°♄17'50	
inferior conj	14400 Dec 26 04:13	18°♄24'22 -5°56'17		14401 Dec 02 23:18	30°♄	
minimum elong	14400 Dec 26 06:54	18°♄20'31 5°55'08	inferior conj	14401 Dec 05 20:30	28°♄25'24 -5°44'17	
morning rise	14401 Jan 03 17:28	14°♄33'51	minimum elong	14401 Dec 05 14:10	28°♄34'16 5°42'27	
direct	14401 Jan 06 14:02	14°♄14'28	min. Earth dist.	14401 Dec 06 00:29	28°♄19'47 0.54465 AU	
morning max el	14401 Jan 17 18:27	19°♄36'07 20°41'17	morning rise	14401 Dec 14 03:25	24°♄36'50	
asc. node	14401 Jan 20 14:59	22°♄40'23	direct	14401 Dec 17 22:15	24°♄05'40	
	14401 Jan 25 21:14	0°♄		14401 Dec 30 08:47	0°♄	
morning set	14401 Feb 05 17:56	20°♄22'30	morning max el	14401 Dec 30 13:18	0°♄10'38 22°19'09	
	14401 Feb 10 09:04	0°♄	asc. node	14402 Jan 07 12:15	9°♄51'37	
				14402 Jan 18 17:44	0°♄	
superior conj	14401 Feb 13 05:11	5°♄50'37 1°09'44	morning set	14402 Jan 21 04:39	5°♄07'23	
minimum elong	14401 Feb 13 07:49	6°♄03'59 1°09'54				
max. Earth dist.	14401 Feb 18 10:58	16°♄16'08 1.35949 AU	superior conj	14402 Jan 28 05:42	20°♄10'06 1°25'34	
evening rise	14401 Feb 22 08:01	23°♄35'34	minimum elong	14402 Jan 28 07:44	20°♄20'55 1°26'08	
desc. node	14401 Feb 22 06:53	23°♄30'18	max. Earth dist.	14402 Feb 01 00:56	28°♄05'46 1.34068 AU	
	14401 Feb 25 21:19	0°♄		14402 Feb 01 23:22	0°♄	
	14401 Mar 17 03:09	0°♄	evening rise	14402 Feb 05 10:50	6°♄53'24	
evening max el	14401 Mar 29 18:31	15°♄02'15 26°08'01	desc. node	14402 Feb 09 03:26	13°♄51'24	
retrograde	14401 Apr 11 12:44	22°♄20'15		14402 Feb 18 12:58	0°♄	
evening set	14401 Apr 17 17:05	19°♄49'16	evening max el	14402 Mar 12 08:11	28°♄42'26 27°01'27	
asc. node	14401 Apr 18 11:31	19°♄08'52		14402 Mar 13 17:19	0°♄	
min. Earth dist.	14401 Apr 21 20:49	15°♄26'23 0.67140 AU	retrograde	14402 Mar 15 17:23	6°♄10'47	
inferior conj	14401 Apr 23 13:31	13°♄20'09 1°31'06	evening set	14402 Apr 01 06:42	3°♄38'53	
minimum elong	14401 Apr 23 11:35	13°♄26'11 1°29'49	min. Earth dist.	14402 Apr 05 05:20	29°♄49'19 0.65654 AU	
morning rise	14401 Apr 29 06:54	7°♄34'45	asc. node	14402 Apr 05 08:57	29°♄39'10	

	14402 Apr 05 01:29	30° $\Upsilon$		min. Earth dist.	14403 Mar 19 05:46	13° $\Upsilon$ 44'22	0.63825 AU
inferior conj	14402 Apr 07 10:24	27° $\Upsilon$ 17'33	0°38'41	inferior conj	14403 Mar 21 22:12	10° $\Upsilon$ 57'55	-0°25'56
minimum elong	14402 Apr 07 09:23	27° $\Upsilon$ 20'27	0°37'55	minimum elong	14403 Mar 21 23:00	10° $\Upsilon$ 55'48	0°25'42
morning rise	14402 Apr 13 13:34	21° $\Upsilon$ 44'17		asc. node	14403 Mar 23 06:25	9° $\Upsilon$ 35'50	
direct	14402 Apr 16 09:15	21° $\Upsilon$ 01'12		morning rise	14403 Mar 28 13:44	5° $\Upsilon$ 39'07	
morning max el	14402 Apr 22 17:24	24° $\Upsilon$ 19'57	18°04'27	direct	14403 Mar 31 00:56	5° $\Upsilon$ 08'51	
	14402 Apr 27 11:18	0° $\text{♄}$		morning max el	14403 Apr 06 10:53	8° $\Upsilon$ 26'14	17°47'52
desc. node	14402 May 08 05:41	16° $\text{♄}$ 37'18			14403 Apr 21 00:24	0° $\text{♄}$	
morning set	14402 May 11 06:42	21° $\text{♄}$ 33'40		morning set	14403 Apr 23 03:15	3° $\text{♄}$ 36'01	
	14402 May 16 11:54	0° $\text{♄}$		desc. node	14403 Apr 25 02:22	6° $\text{♄}$ 55'59	
superior conj	14402 May 26 01:31	15° $\text{♄}$ 12'43	-1°52'39	superior conj	14403 May 06 02:24	25° $\text{♄}$ 12'22	-1°19'17
minimum elong	14402 May 25 16:48	14° $\text{♄}$ 38'29	1°52'56	minimum elong	14403 May 05 18:41	24° $\text{♄}$ 41'02	1°19'07
max. Earth dist.	14402 May 28 18:05	19° $\text{♄}$ 25'47	1.45783 AU		14403 May 09 01:51	0° $\text{♄}$	
	14402 Jun 04 13:06	0° $\text{♄}$		max. Earth dist.	14403 May 11 13:20	3° $\text{♄}$ 56'42	1.45010 AU
evening rise	14402 Jun 11 04:08	10° $\text{♄}$ 14'49		evening rise	14403 May 21 15:23	19° $\text{♄}$ 38'04	
greatest brilliancy	14402 Jun 23 19:39	29° $\text{♄}$ 32'47	-0.7m		14403 May 28 11:29	0° $\text{♄}$	
	14402 Jun 24 02:59	0° $\text{♄}$		evening max el	14403 Jun 18 18:33	28° $\text{♄}$ 57'46	20°21'41
asc. node	14402 Jul 02 07:03	11° $\text{♄}$ 19'56		asc. node	14403 Jun 19 03:59	29° $\text{♄}$ 21'00	
evening max el	14402 Jul 05 15:42	15° $\text{♄}$ 07'00	19°22'35		14403 Jun 19 20:32	0° $\text{♄}$	
retrograde	14402 Jul 12 17:40	19° $\text{♄}$ 03'55		retrograde	14403 Jun 26 16:32	3° $\text{♄}$ 29'41	
evening set	14402 Jul 16 08:46	17° $\text{♄}$ 47'27		evening set	14403 Jun 30 17:46	1° $\text{♄}$ 55'53	
inferior conj	14402 Jul 21 18:15	11° $\text{♄}$ 55'43	3°02'09		14403 Jul 02 18:26	30° $\text{♄}$	
minimum elong	14402 Jul 21 19:29	11° $\text{♄}$ 51'38	3°01'09	inferior conj	14403 Jul 06 00:08	25° $\text{♄}$ 51'45	3°10'44
min. Earth dist.	14402 Jul 23 02:40	10° $\text{♄}$ 09'21	0.67216 AU	minimum elong	14403 Jul 06 00:23	25° $\text{♄}$ 50'54	3°09'44
morning rise	14402 Jul 27 05:39	5° $\text{♄}$ 30'39		min. Earth dist.	14403 Jul 06 18:31	24° $\text{♄}$ 48'51	0.68287 AU
direct	14402 Aug 02 05:35	2° $\text{♄}$ 54'20		morning rise	14403 Jul 11 06:41	19° $\text{♄}$ 29'47	
desc. node	14402 Aug 04 04:34	3° $\text{♄}$ 08'49		direct	14403 Jul 16 19:12	17° $\text{♄}$ 04'13	
morning max el	14402 Aug 14 14:44	10° $\text{♄}$ 18'51	25°39'09	desc. node	14403 Jul 22 01:57	18° $\text{♄}$ 49'33	
	14402 Aug 30 05:57	0° $\text{♄}$		morning max el	14403 Jul 28 01:08	23° $\text{♄}$ 48'04	24°13'29
	14402 Sep 17 21:06	0° $\text{♄}$			14403 Aug 02 13:34	0° $\text{♄}$	
morning set	14402 Sep 19 13:53	3° $\text{♄}$ 03'44			14403 Aug 23 15:09	0° $\text{♄}$	
max. Earth dist.	14402 Sep 23 05:00	9° $\text{♄}$ 48'11	1.35836 AU	morning set	14403 Sep 01 12:02	14° $\text{♄}$ 40'41	
asc. node	14402 Sep 28 08:46	19° $\text{♄}$ 50'30		max. Earth dist.	14403 Sep 05 03:48	21° $\text{♄}$ 06'04	1.38119 AU
					14403 Sep 10 00:28	0° $\text{♄}$	
superior conj	14402 Sep 29 05:34	21° $\text{♄}$ 34'45	0°08'03	superior conj	14403 Sep 12 10:27	4° $\text{♄}$ 34'30	-0°25'18
minimum elong	14402 Sep 29 05:05	21° $\text{♄}$ 32'17	0°08'15	minimum elong	14403 Sep 12 12:12	4° $\text{♄}$ 42'51	0°25'00
behind sun begin	14402 Sep 28 23:41	21° $\text{♄}$ 05'13		asc. node	14403 Sep 15 05:20	9° $\text{♄}$ 57'51	
behind sun end	14402 Sep 29 10:28	21° $\text{♄}$ 59'23		evening rise	14403 Sep 21 04:14	21° $\text{♄}$ 43'45	
	14402 Oct 03 08:41	0° $\text{♄}$			14403 Sep 25 10:02	0° $\text{♄}$	
evening rise	14402 Oct 07 02:35	7° $\text{♄}$ 43'24		evening max el	14403 Oct 07 16:18	18° $\text{♄}$ 45'18	19°06'27
	14402 Oct 19 04:50	0° $\text{♄}$		retrograde	14403 Oct 16 16:23	23° $\text{♄}$ 16'32	
evening max el	14402 Oct 25 00:11	7° $\text{♄}$ 15'49	20°09'19	desc. node	14403 Oct 17 22:10	23° $\text{♄}$ 11'41	
desc. node	14402 Oct 31 00:46	11° $\text{♄}$ 34'33		evening set	14403 Oct 18 13:12	23° $\text{♄}$ 05'40	
retrograde	14402 Nov 04 15:11	12° $\text{♄}$ 33'08		inferior conj	14403 Oct 26 23:49	18° $\text{♄}$ 52'08	-2°51'28
evening set	14402 Nov 06 17:21	12° $\text{♄}$ 21'48		minimum elong	14403 Oct 26 16:36	19° $\text{♄}$ 04'26	2°48'02
inferior conj	14402 Nov 15 14:40	8° $\text{♄}$ 24'34	-4°34'33	min. Earth dist.	14403 Oct 29 18:37	16° $\text{♄}$ 58'43	0.56123 AU
minimum elong	14402 Nov 15 04:34	8° $\text{♄}$ 39'38	4°30'45	morning rise	14403 Nov 03 17:21	14° $\text{♄}$ 13'18	
min. Earth dist.	14402 Nov 17 07:39	7° $\text{♄}$ 23'28	0.54857 AU	direct	14403 Nov 09 07:30	13° $\text{♄}$ 00'52	
morning rise	14402 Nov 23 14:52	4° $\text{♄}$ 18'48		morning max el	14403 Nov 23 09:56	20° $\text{♄}$ 12'03	25°51'13
direct	14402 Nov 28 09:11	3° $\text{♄}$ 29'34			14403 Dec 01 19:22	0° $\text{♄}$	
morning max el	14402 Dec 11 23:25	10° $\text{♄}$ 11'25	24°08'10	asc. node	14403 Dec 12 06:31	16° $\text{♄}$ 43'31	
asc. node	14402 Dec 25 09:26	27° $\text{♄}$ 57'30			14403 Dec 19 00:51	0° $\text{♄}$	
	14402 Dec 26 14:03	0° $\text{♄}$		morning set	14403 Dec 21 03:59	4° $\text{♄}$ 31'07	
morning set	14403 Jan 05 16:38	19° $\text{♄}$ 52'15					
	14403 Jan 10 08:15	0° $\text{♄}$		superior conj	14403 Dec 27 22:07	19° $\text{♄}$ 24'31	1°37'59
superior conj	14403 Jan 12 12:09	4° $\text{♄}$ 44'03	1°34'53	minimum elong	14403 Dec 27 22:08	19° $\text{♄}$ 24'33	1°39'01
minimum elong	14403 Jan 12 13:14	4° $\text{♄}$ 49'59	1°35'45	max. Earth dist.	14403 Dec 29 03:26	22° $\text{♄}$ 06'58	1.31631 AU
max. Earth dist.	14403 Jan 14 22:56	10° $\text{♄}$ 02'07	1.32610 AU		14404 Jan 01 18:08	0° $\text{♄}$	
evening rise	14403 Jan 20 01:10	20° $\text{♄}$ 39'22		evening rise	14404 Jan 03 23:55	4° $\text{♄}$ 44'48	
	14403 Jan 24 20:12	0° $\text{♄}$		desc. node	14404 Jan 13 20:47	23° $\text{♄}$ 47'18	
desc. node	14403 Jan 27 00:05	3° $\text{♄}$ 59'22			14404 Jan 17 12:15	0° $\text{♄}$	
	14403 Feb 12 12:15	0° $\text{♄}$		evening max el	14404 Feb 05 06:36	24° $\text{♄}$ 46'08	27°30'03
evening max el	14403 Feb 22 21:01	12° $\text{♄}$ 01'48	27°30'54		14404 Feb 12 01:36	0° $\text{♄}$	
retrograde	14403 Mar 08 15:09	19° $\text{♄}$ 29'57		retrograde	14404 Feb 19 04:58	2° $\text{♄}$ 07'51	
evening set	14403 Mar 15 10:34	17° $\text{♄}$ 03'47			14404 Feb 25 22:36	30° $\text{♄}$	

evening set	14404 Feb 26 01:54	29° $\text{K}$ 54'47		evening set	14405 Feb 07 01:24	12° $\text{K}$ 03'38	
min. Earth dist.	14404 Feb 29 20:19	27° $\text{K}$ 00'02	0.61735 AU	min. Earth dist.	14405 Feb 11 00:15	9° $\text{K}$ 24'14	0.59527 AU
inferior conj	14404 Mar 03 21:38	24° $\text{K}$ 12'14	-1°42'17	inferior conj	14405 Feb 14 05:05	6° $\text{K}$ 50'51	-3°07'07
minimum elong	14404 Mar 04 01:14	24° $\text{K}$ 03'58	1°40'38	minimum elong	14405 Feb 14 11:58	6° $\text{K}$ 37'04	3°04'05
asc. node	14404 Mar 09 03:54	20° $\text{K}$ 04'02		morning rise	14405 Feb 22 01:50	2° $\text{K}$ 10'22	
morning rise	14404 Mar 11 03:33	19° $\text{K}$ 11'07		direct	14405 Feb 24 02:22	1° $\text{K}$ 55'05	
direct	14404 Mar 13 08:05	18° $\text{K}$ 50'06		asc. node	14405 Feb 24 01:22	1° $\text{K}$ 55'06	
morning max el	14404 Mar 20 03:59	22° $\text{K}$ 16'54	17°49'10	morning max el	14405 Mar 03 17:13	5° $\text{K}$ 42'09	18°09'26
	14404 Mar 26 03:53	0° $\text{Y}$		morning set	14405 Mar 19 08:05	0° $\text{Y}$ 27'08	
morning set	14404 Apr 04 21:43	16° $\text{Y}$ 39'56			14405 Mar 19 02:17	0° $\text{Y}$	
desc. node	14404 Apr 10 22:57	27° $\text{Y}$ 24'01		desc. node	14405 Mar 28 19:28	17° $\text{Y}$ 57'16	
	14404 Apr 12 10:43	0° $\text{B}$					
superior conj	14404 Apr 16 02:35	6° $\text{B}$ 17'27	-0°40'11	superior conj	14405 Mar 29 01:57	18° $\text{Y}$ 26'20	-0°02'12
minimum elong	14404 Apr 15 22:49	6° $\text{B}$ 01'25	0°40'07	minimum elong	14405 Mar 29 01:45	18° $\text{Y}$ 25'26	0°02'24
max. Earth dist.	14404 Apr 23 05:30	18° $\text{B}$ 06'28	1.43581 AU	behind sun begin	14405 Mar 28 18:11	17° $\text{Y}$ 51'33	
evening rise	14404 Apr 30 07:16	29° $\text{B}$ 20'47		behind sun end	14405 Mar 29 09:18	18° $\text{Y}$ 59'14	
	14404 Apr 30 17:21	0° $\text{II}$			14405 Apr 04 17:06	0° $\text{B}$	
	14404 May 21 03:25	0° $\text{E}$		max. Earth dist.	14405 Apr 05 16:47	1° $\text{B}$ 40'01	1.41651 AU
evening max el	14404 May 31 15:31	12° $\text{E}$ 48'38	21°33'02	evening rise	14405 Apr 10 15:55	9° $\text{B}$ 50'55	
asc. node	14404 Jun 05 01:00	16° $\text{E}$ 29'07			14405 Apr 23 18:02	0° $\text{II}$	
retrograde	14404 Jun 09 15:06	18° $\text{E}$ 03'19		evening max el	14405 May 14 07:50	26° $\text{II}$ 39'41	22°52'12
evening set	14404 Jun 14 03:07	16° $\text{E}$ 12'45			14405 May 18 02:34	0° $\text{E}$	
inferior conj	14404 Jun 19 08:59	9° $\text{E}$ 57'41	3°07'47	asc. node	14405 May 22 22:07	2° $\text{E}$ 27'43	
minimum elong	14404 Jun 19 08:15	10° $\text{E}$ 00'11	3°06'41	retrograde	14405 May 24 11:47	2° $\text{E}$ 38'46	
min. Earth dist.	14404 Jun 19 13:53	9° $\text{E}$ 40'33	0.68878 AU	evening set	14405 May 29 11:05	0° $\text{E}$ 33'03	
morning rise	14404 Jun 24 13:13	3° $\text{E}$ 41'11			14405 May 30 01:38	30° $\text{R}$ II	
direct	14404 Jun 29 13:14	1° $\text{E}$ 31'52		inferior conj	14405 Jun 03 18:43	24° $\text{II}$ 09'13	2°54'14
desc. node	14404 Jul 07 23:13	5° $\text{E}$ 55'55		minimum elong	14405 Jun 03 17:12	24° $\text{II}$ 14'29	2°52'58
morning max el	14404 Jul 09 12:40	7° $\text{E}$ 25'50	22°44'05	min. Earth dist.	14405 Jun 03 10:41	24° $\text{II}$ 37'09	0.68989 AU
	14404 Jul 27 02:04	0° $\text{Q}$		morning rise	14405 Jun 08 23:13	17° $\text{II}$ 59'39	
morning set	14404 Aug 12 11:22	25° $\text{Q}$ 17'58		direct	14405 Jun 13 10:35	16° $\text{II}$ 09'41	
	14404 Aug 15 07:28	0° $\text{np}$		morning max el	14405 Jun 22 04:04	21° $\text{II}$ 12'25	21°19'04
max. Earth dist.	14404 Aug 17 03:20	3° $\text{np}$ 05'06	1.40486 AU	desc. node	14405 Jun 24 20:23	24° $\text{II}$ 05'08	
					14405 Jun 29 15:28	0° $\text{E}$	
superior conj	14404 Aug 24 23:26	16° $\text{np}$ 50'28	-1°00'53		14405 Jul 20 07:20	0° $\text{Q}$	
minimum elong	14404 Aug 25 04:05	17° $\text{np}$ 11'32	1°00'29	morning set	14405 Jul 23 10:04	4° $\text{Q}$ 51'19	
asc. node	14404 Sep 01 01:54	0° $\text{E}$ 01'01		max. Earth dist.	14405 Jul 30 07:46	15° $\text{Q}$ 55'00	1.42660 AU
	14404 Sep 01 01:41	0° $\text{E}$					
evening rise	14404 Sep 03 21:17	5° $\text{E}$ 20'12		superior conj	14405 Aug 06 15:58	28° $\text{Q}$ 11'51	-1°34'58
	14404 Sep 18 20:50	0° $\text{ml}$		minimum elong	14405 Aug 06 23:04	28° $\text{Q}$ 42'20	1°34'47
evening max el	14404 Sep 19 19:54	1° $\text{ml}$ 00'46	18°25'31		14405 Aug 07 17:08	0° $\text{np}$	
retrograde	14404 Sep 27 12:51	4° $\text{ml}$ 55'06		evening rise	14405 Aug 18 01:32	18° $\text{np}$ 21'11	
evening set	14404 Sep 29 13:08	4° $\text{ml}$ 39'51		asc. node	14405 Aug 18 22:26	19° $\text{np}$ 55'29	
desc. node	14404 Oct 03 19:37	2° $\text{ml}$ 39'29			14405 Aug 24 14:35	0° $\text{E}$	
inferior conj	14404 Oct 07 06:25	0° $\text{ml}$ 05'34	-1°05'53	evening max el	14405 Sep 03 06:49	13° $\text{E}$ 52'22	18°05'13
minimum elong	14404 Oct 07 03:52	0° $\text{ml}$ 10'39	1°04'26	retrograde	14405 Sep 10 03:03	17° $\text{E}$ 22'50	
	14404 Oct 07 09:11	30° $\text{R}$ II		evening set	14405 Sep 12 10:32	16° $\text{E}$ 59'03	
min. Earth dist.	14404 Oct 10 12:26	27° $\text{E}$ 30'50	0.58026 AU	inferior conj	14405 Sep 19 09:59	12° $\text{E}$ 04'28	0°24'00
morning rise	14404 Oct 14 15:06	24° $\text{E}$ 49'06		minimum elong	14405 Sep 19 10:45	12° $\text{E}$ 02'41	0°23'49
direct	14404 Oct 20 19:59	23° $\text{E}$ 09'50		desc. node	14405 Sep 20 17:07	10° $\text{E}$ 51'54	
	14404 Nov 03 08:27	0° $\text{ml}$		min. Earth dist.	14405 Sep 22 15:00	9° $\text{E}$ 07'15	0.60261 AU
morning max el	14404 Nov 04 03:19	0° $\text{ml}$ 44'48	27°09'46	morning rise	14405 Sep 26 07:47	6° $\text{E}$ 16'38	
	14404 Nov 24 22:21	0° $\text{x}$		direct	14405 Oct 02 21:35	4° $\text{E}$ 11'13	
asc. node	14404 Nov 28 03:29	5° $\text{x}$ 59'21		morning max el	14405 Oct 17 04:27	12° $\text{E}$ 03'27	27°52'14
morning set	14404 Dec 04 12:57	18° $\text{x}$ 59'30			14405 Oct 31 08:34	0° $\text{ml}$	
	14404 Dec 09 13:35	0° $\text{Z}$		asc. node	14405 Nov 15 00:20	25° $\text{ml}$ 36'30	
					14405 Nov 17 04:34	0° $\text{x}$	
superior conj	14404 Dec 11 09:37	4° $\text{Z}$ 06'03	1°35'07	morning set	14405 Nov 18 17:42	3° $\text{x}$ 12'34	
minimum elong	14404 Dec 11 08:36	4° $\text{Z}$ 00'23	1°36'06	max. Earth dist.	14405 Nov 24 18:49	16° $\text{x}$ 18'55	1.31221 AU
max. Earth dist.	14404 Dec 11 11:16	4° $\text{Z}$ 15'21	1.31162 AU				
evening rise	14404 Dec 18 04:42	19° $\text{Z}$ 03'46		superior conj	14405 Nov 25 20:46	18° $\text{x}$ 43'19	1°26'22
	14404 Dec 23 12:45	0° $\text{z}$		minimum elong	14405 Nov 25 18:57	18° $\text{x}$ 33'09	1°27'11
desc. node	14404 Dec 30 17:35	13° $\text{z}$ 07'22			14405 Nov 30 22:36	0° $\text{Z}$	
	14405 Jan 11 06:39	0° $\text{K}$		evening rise	14405 Dec 02 13:24	3° $\text{Z}$ 31'11	
evening max el	14405 Jan 17 10:12	6° $\text{K}$ 43'28	26°54'50		14405 Dec 16 10:58	0° $\text{z}$	
retrograde	14405 Jan 31 09:45	13° $\text{K}$ 56'05		desc. node	14405 Dec 17 14:29	1° $\text{z}$ 49'10	
				evening max el	14405 Dec 30 05:47	17° $\text{z}$ 48'29	25°46'07

retrograde	14406 Jan 13 03:51	24° $\approx$ 50'10		retrograde	14406 Dec 25 08:51	4° $\approx$ 54'23	
evening set	14406 Jan 19 05:09	23° $\approx$ 25'02		evening set	14406 Dec 30 09:36	3° $\approx$ 59'07	
min. Earth dist.	14406 Jan 23 18:36	20° $\approx$ 46'50	0.57422 AU	min. Earth dist.	14407 Jan 05 05:26	1° $\approx$ 04'38	0.55711 AU
inferior conj	14406 Jan 26 17:10	18° $\approx$ 44'35	-4°31'18		14407 Jan 06 23:54	30° $\approx$	
minimum elong	14406 Jan 27 02:11	18° $\approx$ 28'57	4°27'59	inferior conj	14407 Jan 07 08:20	29° $\approx$ 47'07	-5°36'49
morning rise	14406 Feb 04 02:05	14° $\approx$ 25'54		minimum elong	14407 Jan 07 15:07	29° $\approx$ 36'45	5°34'51
direct	14406 Feb 06 03:32	14° $\approx$ 12'43		morning rise	14407 Jan 15 22:30	25° $\approx$ 47'59	
asc. node	14406 Feb 10 22:48	15° $\approx$ 29'05		direct	14407 Jan 18 09:19	25° $\approx$ 32'22	
morning max el	14406 Feb 14 22:36	18° $\approx$ 30'39	18°50'25		14407 Jan 28 03:17	0° $\approx$	
	14406 Feb 23 07:52	0° $\approx$		morning max el	14407 Jan 28 15:53	0° $\approx$ 29'42	19°54'03
morning set	14406 Mar 03 05:30	14° $\approx$ 43'28		asc. node	14407 Jan 28 20:11	0° $\approx$ 40'09	
	14406 Mar 11 02:05	0° $\approx$		morning set	14407 Feb 15 10:11	29° $\approx$ 17'01	
					14407 Feb 15 18:39	0° $\approx$	
superior conj	14406 Mar 11 20:33	1° $\approx$ 27'36	0°30'54	superior conj	14407 Feb 23 05:46	15° $\approx$ 07'24	0°57'30
minimum elong	14406 Mar 11 22:28	1° $\approx$ 36'41	0°30'39	minimum elong	14407 Feb 23 08:26	15° $\approx$ 20'37	0°57'29
desc. node	14406 Mar 15 15:59	8° $\approx$ 32'30		max. Earth dist.	14407 Mar 01 06:18	26° $\approx$ 45'06	1.37184 AU
max. Earth dist.	14406 Mar 18 23:53	14° $\approx$ 31'02	1.39437 AU	desc. node	14407 Mar 02 12:30	29° $\approx$ 05'09	
evening rise	14406 Mar 22 21:52	21° $\approx$ 17'35			14407 Mar 03 00:27	0° $\approx$	
	14406 Mar 28 04:17	0° $\approx$		evening rise	14407 Mar 04 23:50	3° $\approx$ 34'26	
	14406 Apr 17 18:47	0° $\approx$			14407 Mar 21 05:12	0° $\approx$	
evening max el	14406 Apr 26 21:50	10° $\approx$ 33'02	24°13'15	evening max el	14407 Apr 09 11:26	24° $\approx$ 26'39	25°29'22
retrograde	14406 May 08 05:18	17° $\approx$ 10'54			14407 Apr 16 12:29	0° $\approx$	
asc. node	14406 May 09 19:20	16° $\approx$ 59'52		retrograde	14407 Apr 21 18:26	1° $\approx$ 32'47	
evening set	14406 May 13 16:08	14° $\approx$ 52'36			14407 Apr 26 11:51	30° $\approx$	
min. Earth dist.	14406 May 18 06:49	9° $\approx$ 33'11	0.68633 AU	asc. node	14407 Apr 26 16:39	29° $\approx$ 51'45	
inferior conj	14406 May 19 03:31	8° $\approx$ 23'12	2°30'22	evening set	14407 Apr 27 16:38	29° $\approx$ 05'23	
minimum elong	14406 May 19 01:28	8° $\approx$ 30'05	2°28'59	min. Earth dist.	14407 May 02 00:04	24° $\approx$ 22'05	0.67816 AU
morning rise	14406 May 24 10:54	2° $\approx$ 21'48		inferior conj	14407 May 03 09:24	22° $\approx$ 34'45	1°55'58
direct	14406 May 28 10:05	0° $\approx$ 52'09		minimum elong	14407 May 03 07:15	22° $\approx$ 41'39	1°54'34
morning max el	14406 Jun 05 01:57	5° $\approx$ 10'03	20°04'46	morning rise	14407 May 08 22:20	16° $\approx$ 42'56	
desc. node	14406 Jun 11 17:25	13° $\approx$ 00'45		direct	14407 May 12 10:06	15° $\approx$ 33'00	
	14406 Jun 23 14:35	0° $\approx$		morning max el	14407 May 19 07:18	19° $\approx$ 17'29	19°05'05
morning set	14406 Jul 02 14:50	13° $\approx$ 40'08			14407 May 27 20:50	0° $\approx$	
max. Earth dist.	14406 Jul 12 18:37	29° $\approx$ 32'53	1.44400 AU	desc. node	14407 May 29 14:22	2° $\approx$ 29'57	
	14406 Jul 13 01:26	0° $\approx$		greatest brilliancy	14407 Jun 01 08:34	6° $\approx$ 35'10	-0.7m
superior conj	14406 Jul 18 09:01	8° $\approx$ 33'45	-2°01'39	morning set	14407 Jun 11 20:06	22° $\approx$ 36'25	
minimum elong	14406 Jul 18 15:39	9° $\approx$ 00'51	2°02'06		14407 Jun 16 14:46	0° $\approx$	
	14406 Jul 31 04:00	0° $\approx$		max. Earth dist.	14407 Jun 25 11:23	13° $\approx$ 48'02	1.45517 AU
evening rise	14406 Jul 31 12:06	0° $\approx$		superior conj	14407 Jun 28 04:26	18° $\approx$ 03'38	-2°13'38
asc. node	14406 Aug 05 19:01	9° $\approx$ 37'10		minimum elong	14407 Jun 28 05:28	18° $\approx$ 07'41	2°14'39
evening max el	14406 Aug 17 21:05	27° $\approx$ 10'18	18°04'05		14407 Jul 05 16:42	0° $\approx$	
	14406 Aug 21 20:07	0° $\approx$		evening rise	14407 Jul 13 00:02	11° $\approx$ 49'47	
retrograde	14406 Aug 24 07:02	0° $\approx$ 30'48		asc. node	14407 Jul 23 15:42	29° $\approx$ 01'00	
evening set	14406 Aug 26 22:51	29° $\approx$ 54'58			14407 Jul 24 07:02	0° $\approx$	
	14406 Aug 26 18:09	30° $\approx$		evening max el	14407 Aug 01 11:13	10° $\approx$ 45'50	18°21'03
inferior conj	14406 Sep 02 07:05	24° $\approx$ 41'52	1°32'35	retrograde	14407 Aug 07 20:31	14° $\approx$ 10'11	
minimum elong	14406 Sep 02 09:20	24° $\approx$ 35'58	1°31'39	evening set	14407 Aug 10 21:05	13° $\approx$ 19'39	
min. Earth dist.	14406 Sep 05 03:03	21° $\approx$ 43'49	0.62540 AU	inferior conj	14407 Aug 16 17:42	7° $\approx$ 50'04	2°20'44
desc. node	14406 Sep 07 14:38	19° $\approx$ 25'24		minimum elong	14407 Aug 16 20:04	7° $\approx$ 43'07	2°19'39
morning rise	14406 Sep 08 17:30	18° $\approx$ 32'57		min. Earth dist.	14407 Aug 19 00:36	5° $\approx$ 10'00	0.64633 AU
direct	14406 Sep 15 09:52	16° $\approx$ 07'19		morning rise	14407 Aug 22 17:38	1° $\approx$ 29'28	
morning max el	14406 Sep 29 11:24	24° $\approx$ 07'35	27°55'36		14407 Aug 24 23:02	30° $\approx$	
	14406 Oct 04 18:47	0° $\approx$		desc. node	14407 Aug 25 12:09	29° $\approx$ 43'44	
	14406 Oct 24 17:33	0° $\approx$		direct	14407 Aug 29 06:43	28° $\approx$ 52'38	
asc. node	14406 Nov 01 21:04	15° $\approx$ 28'23			14407 Sep 02 22:36	0° $\approx$	
morning set	14406 Nov 02 16:05	17° $\approx$ 04'41		morning max el	14407 Sep 11 21:43	6° $\approx$ 49'45	27°23'29
max. Earth dist.	14406 Nov 07 22:14	28° $\approx$ 08'19	1.31828 AU		14407 Sep 29 17:44	0° $\approx$	
	14406 Nov 08 18:49	0° $\approx$			14407 Oct 16 23:26	0° $\approx$	
superior conj	14406 Nov 10 05:41	3° $\approx$ 10'36	1°11'47	morning set	14407 Oct 17 05:34	0° $\approx$ 29'58	
minimum elong	14406 Nov 10 03:25	2° $\approx$ 58'10	1°12'19	asc. node	14407 Oct 19 17:45	5° $\approx$ 29'57	
evening rise	14406 Nov 17 00:06	18° $\approx$ 01'57		max. Earth dist.	14407 Oct 21 18:10	9° $\approx$ 37'57	1.32986 AU
	14406 Nov 22 18:49	0° $\approx$		superior conj	14407 Oct 25 10:18	17° $\approx$ 22'22	0°51'23
desc. node	14406 Dec 04 11:31	19° $\approx$ 37'51		minimum elong	14407 Oct 25 08:08	17° $\approx$ 10'44	0°51'41
evening max el	14406 Dec 11 17:50	28° $\approx$ 07'39	24°12'18		14407 Oct 31 06:45	0° $\approx$	
	14406 Dec 13 20:13	0° $\approx$					

evening rise	14407 Nov 01 11:00	2°♊31'26		evening max el	14408 Nov 03 22:02	18°♊22'38	20°55'11
	14407 Nov 16 10:16	0°♊		desc. node	14408 Nov 07 05:55	21°♊12'49	
desc. node	14407 Nov 21 08:39	6°♊14'09		retrograde	14408 Nov 15 11:36	24°♊07'29	
evening max el	14407 Nov 23 04:06	8°♊06'48	22°29'33	evening set	14408 Nov 17 23:38	23°♊52'31	
retrograde	14407 Dec 06 01:05	14°♊29'37		inferior conj	14408 Nov 26 21:11	19°♊59'16	-5°20'47
evening set	14407 Dec 09 17:50	13°♊59'41		minimum elong	14408 Nov 26 12:16	20°♊11'57	5°18'00
min. Earth dist.	14407 Dec 17 11:45	10°♊30'10	0.54675 AU	min. Earth dist.	14408 Nov 27 17:27	19°♊30'23	0.54516 AU
inferior conj	14407 Dec 18 06:05	10°♊04'21	-5°58'48	morning rise	14408 Dec 05 01:09	16°♊06'12	
minimum elong	14407 Dec 18 04:51	10°♊06'06	5°57'43	direct	14408 Dec 09 06:09	15°♊28'15	
morning rise	14407 Dec 26 17:04	6°♊16'53		morning max el	14408 Dec 22 08:36	21°♊49'12	23°05'10
direct	14407 Dec 29 22:50	5°♊53'06			14408 Dec 29 08:43	0°♊	
morning max el	14408 Jan 10 18:31	11°♊33'13	21°20'37	asc. node	14409 Jan 01 14:45	4°♊48'28	
asc. node	14408 Jan 15 17:30	17°♊12'40		morning set	14409 Jan 14 06:55	28°♊45'33	
	14408 Jan 23 18:07	0°♊			14409 Jan 14 20:52	0°♊	
morning set	14408 Jan 30 19:24	13°♊59'58					
				superior conj	14409 Jan 21 05:02	13°♊41'37	1°30'18
superior conj	14408 Feb 07 01:40	29°♊15'09	1°17'15	minimum elong	14409 Jan 21 06:42	13°♊50'33	1°31'00
minimum elong	14408 Feb 07 04:07	29°♊27'49	1°17'35	max. Earth dist.	14409 Jan 24 10:21	20°♊31'42	1.33390 AU
	14408 Feb 07 10:20	0°♊		evening rise	14409 Jan 29 02:41	0°♊02'56	
max. Earth dist.	14408 Feb 11 16:50	8°♊39'48	1.35115 AU		14409 Jan 29 02:05	0°♊	
evening rise	14408 Feb 15 18:37	16°♊32'33		desc. node	14409 Feb 03 05:39	9°♊47'43	
desc. node	14408 Feb 17 09:02	19°♊31'39			14409 Feb 15 08:22	0°♊	
	14408 Feb 23 06:49	0°♊		evening max el	14409 Mar 04 14:39	21°♊47'00	27°17'12
	14408 Mar 14 15:19	0°♊		retrograde	14409 Mar 18 04:02	29°♊16'15	
evening max el	14408 Mar 22 01:15	8°♊14'28	26°33'08	evening set	14409 Mar 24 20:37	26°♊45'37	
retrograde	14408 Apr 04 02:15	15°♊37'15		min. Earth dist.	14409 Mar 28 17:27	23°♊09'43	0.64920 AU
evening set	14408 Apr 10 10:47	13°♊05'14		asc. node	14409 Mar 30 11:31	21°♊14'40	
asc. node	14408 Apr 12 14:04	11°♊05'56		inferior conj	14409 Mar 31 03:39	20°♊30'04	0°12'48
min. Earth dist.	14408 Apr 14 12:16	8°♊56'52	0.66565 AU	minimum elong	14409 Mar 31 03:18	20°♊31'03	0°12'23
inferior conj	14408 Apr 16 10:15	6°♊38'52	1°10'21	transit middle	14409 Mar 31 03:18	20°♊31'03	0°12'23
minimum elong	14408 Apr 16 08:36	6°♊43'50	1°09'13	transit begin	14409 Mar 31 01:22	20°♊36'22	
morning rise	14408 Apr 22 07:28	0°♊58'20		transit end	14409 Mar 31 05:13	20°♊25'45	
direct	14408 Apr 25 08:46	0°♊06'12		morning rise	14409 Apr 06 11:49	15°♊02'55	
morning max el	14408 May 01 19:15	3°♊30'26	18°21'44	direct	14409 Apr 09 03:45	14°♊25'43	
desc. node	14408 May 15 11:12	22°♊23'31		morning max el	14409 Apr 15 11:37	17°♊42'12	17°55'17
	14408 May 20 06:40	0°♊			14409 Apr 24 14:59	0°♊	
morning set	14408 May 21 21:29	2°♊34'00		desc. node	14409 May 02 07:55	12°♊34'47	
				morning set	14409 May 03 02:51	13°♊53'06	
					14409 May 12 23:15	0°♊	
superior conj	14408 Jun 06 12:51	27°♊10'37	-2°05'49				
minimum elong	14408 Jun 06 06:23	26°♊45'22	2°06'32	superior conj	14409 May 17 03:36	6°♊41'12	-1°39'45
max. Earth dist.	14408 Jun 07 07:30	28°♊23'24	1.45905 AU	minimum elong	14409 May 16 18:40	6°♊05'43	1°39'46
	14408 Jun 08 08:16	0°♊		max. Earth dist.	14409 May 21 03:38	13°♊00'16	1.45539 AU
evening rise	14408 Jun 22 11:18	22°♊04'04			14409 Jun 01 02:35	0°♊	
	14408 Jun 27 12:52	0°♊		evening rise	14409 Jun 02 03:30	1°♊35'36	
greatest brilliancy	14408 Jul 02 07:04	7°♊23'03	-0.8m	greatest brilliancy	14409 Jun 16 11:07	23°♊10'08	-0.6m
asc. node	14408 Jul 09 12:28	17°♊59'57			14409 Jun 21 06:59	0°♊	
evening max el	14408 Jul 14 22:23	24°♊31'05	18°55'22		14409 Jun 26 09:21	6°♊25'40	
retrograde	14408 Jul 21 15:55	28°♊12'38		asc. node	14409 Jun 28 04:31	8°♊20'55	19°45'57
evening set	14408 Jul 25 01:34	27°♊05'47		evening max el	14409 Jul 05 14:18	12°♊31'56	
inferior conj	14408 Jul 30 14:08	21°♊21'28	2°51'22	retrograde	14409 Jul 09 09:35	11°♊08'03	
minimum elong	14408 Jul 30 15:54	21°♊15'53	2°50'19	evening set	14409 Jul 14 17:23	5°♊10'37	3°07'17
min. Earth dist.	14408 Aug 01 06:41	19°♊13'04	0.66391 AU	inferior conj	14409 Jul 14 18:12	5°♊07'51	3°06'18
morning rise	14408 Aug 05 05:27	14°♊56'27		minimum elong	14409 Jul 15 19:42	3°♊42'22	0.67726 AU
direct	14408 Aug 11 10:57	12°♊17'42		min. Earth dist.	14409 Jul 18 20:22	30°♊	
desc. node	14408 Aug 11 09:39	12°♊17'43			14409 Jul 20 02:24	28°♊46'18	
morning max el	14408 Aug 24 09:05	19°♊58'29	26°23'07	morning rise	14409 Jul 25 21:30	26°♊13'56	
	14408 Sep 01 23:20	0°♊		direct	14409 Jul 29 07:04	26°♊57'41	
	14408 Sep 21 20:09	0°♊		desc. node	14409 Aug 03 03:28	0°♊	
morning set	14408 Sep 29 06:55	13°♊20'18			14409 Aug 06 20:00	3°♊23'14	25°03'46
max. Earth dist.	14408 Oct 03 04:22	20°♊48'16	1.34668 AU	morning max el	14409 Aug 27 04:14	0°♊	
asc. node	14408 Oct 05 14:22	25°♊36'22			14409 Sep 11 16:18	25°♊27'25	
	14408 Oct 07 18:13	0°♊		morning set	14409 Sep 14 04:47	0°♊	
					14409 Sep 15 05:48	1°♊54'55	1.36780 AU
superior conj	14408 Oct 08 08:07	1°♊11'28	0°25'22				
minimum elong	14408 Oct 08 06:45	1°♊04'28	0°25'33	max. Earth dist.	14409 Sep 21 20:11	14°♊31'28	-0°05'41
evening rise	14408 Oct 15 20:07	16°♊53'47		superior conj	14409 Sep 21 20:32	14°♊33'12	0°05'28
	14408 Oct 22 09:08	0°♊		minimum elong			

behind sun begin	14409 Sep 21 14:23	14°♌02'56		superior conj	14410 Sep 04 18:48	27°♏13'31	-0°40'19
behind sun end	14409 Sep 22 02:41	15°♌03'31		minimum elong	14410 Sep 04 21:44	27°♏27'14	0°39'57
asc. node	14409 Sep 22 10:57	15°♌44'23			14410 Sep 06 06:13	0°♌	
	14409 Sep 29 12:37	0°♌		asc. node	14410 Sep 09 07:31	5°♌50'11	
evening rise	14409 Sep 30 01:15	1°♌03'59		evening rise	14410 Sep 13 23:38	14°♌54'47	
evening max el	14409 Oct 17 05:58	29°♌22'59	19°39'48		14410 Sep 22 01:51	0°♌	
	14409 Oct 17 21:15	0°♌		evening max el	14410 Sep 30 03:31	11°♌13'18	18°46'29
desc. node	14409 Oct 25 03:15	4°♌08'19		retrograde	14410 Oct 08 13:07	15°♌27'04	
retrograde	14409 Oct 27 04:15	4°♌20'31		evening set	14410 Oct 10 10:41	15°♌14'54	
evening set	14409 Oct 29 02:19	4°♌10'13		desc. node	14410 Oct 12 00:38	14°♌47'19	
inferior conj	14409 Nov 06 20:24	0°♌06'59	-3°52'52	inferior conj	14410 Oct 18 14:22	10°♌53'10	-2°05'33
minimum elong	14409 Nov 06 10:58	0°♌21'48	3°48'55	minimum elong	14410 Oct 18 09:10	11°♌02'37	2°02'53
	14409 Nov 07 00:49	30°♌		min. Earth dist.	14410 Oct 21 15:55	8°♌39'56	0.56870 AU
min. Earth dist.	14409 Nov 09 02:06	28°♌42'40	0.55295 AU	morning rise	14410 Oct 26 04:24	5°♌58'01	
morning rise	14409 Nov 14 17:50	25°♌48'05		direct	14410 Nov 01 01:42	4°♌34'01	
direct	14409 Nov 19 20:51	24°♌49'41		morning max el	14410 Nov 15 06:51	11°♌56'42	26°28'30
	14409 Dec 01 18:38	0°♌			14410 Nov 29 07:36	0°♌	
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asc. node	14409 Dec 19 11:52	23°♌12'17		morning set	14410 Dec 14 05:19	28°♌02'48	
	14409 Dec 23 04:44	0°♌			14410 Dec 15 03:02	0°♌	
morning set	14409 Dec 29 18:47	13°♌27'58					
				superior conj	14410 Dec 21 00:04	13°♌00'38	1°37'30
superior conj	14410 Jan 05 13:13	28°♌18'50	1°36'57	minimum elong	14410 Dec 20 23:38	12°♌58'10	1°38'32
minimum elong	14410 Jan 05 13:51	28°♌22'19	1°37'54	max. Earth dist.	14410 Dec 21 17:18	14°♌36'39	1.31360 AU
	14410 Jan 06 07:39	0°♌		evening rise	14410 Dec 27 22:28	28°♌09'30	
max. Earth dist.	14410 Jan 07 11:08	2°♌30'10	1.32122 AU		14410 Dec 28 19:33	0°♌	
evening rise	14410 Jan 12 20:51	13°♌57'23		desc. node	14411 Jan 07 23:01	19°♌24'46	
desc. node	14410 Jan 21 02:18	29°♌47'37			14411 Jan 14 11:42	0°♌	
	14410 Jan 21 05:03	0°♌		evening max el	14411 Jan 28 09:38	17°♌18'22	27°19'33
	14410 Feb 10 11:23	0°♌		retrograde	14411 Feb 11 09:14	24°♌36'49	
evening max el	14410 Feb 15 02:11	4°♌52'18	27°34'36	evening set	14411 Feb 18 04:38	22°♌31'51	
retrograde	14410 Feb 28 22:53	12°♌19'18		min. Earth dist.	14411 Feb 22 00:08	19°♌44'44	0.60791 AU
evening set	14410 Mar 07 19:34	9°♌57'29		inferior conj	14411 Feb 25 03:44	17°♌01'01	-2°17'36
min. Earth dist.	14410 Mar 11 13:49	6°♌49'36	0.62954 AU	minimum elong	14411 Feb 25 08:43	16°♌50'10	2°15'17
inferior conj	14410 Mar 14 10:37	4°♌00'21	-0°57'00	asc. node	14411 Mar 04 06:27	12°♌15'32	
minimum elong	14410 Mar 14 12:30	3°♌55'42	0°56'11	morning rise	14411 Mar 04 16:00	12°♌08'10	
asc. node	14410 Mar 17 09:01	1°♌16'44		direct	14411 Mar 06 18:17	11°♌50'07	
	14410 Mar 19 01:34	30°♌		morning max el	14411 Mar 13 21:19	15°♌24'39	17°55'21
morning rise	14410 Mar 21 08:07	28°♌49'00			14411 Mar 24 00:24	0°♌	
direct	14410 Mar 23 16:07	28°♌23'13		morning set	14411 Mar 29 11:28	9°♌48'30	
	14410 Mar 28 04:16	0°♌		desc. node	14411 Apr 06 01:08	23°♌28'35	
morning max el	14410 Mar 30 05:25	1°♌43'28	17°46'12				
morning set	14410 Apr 15 09:31	26°♌23'55		superior conj	14411 Apr 09 00:26	28°♌41'28	-0°23'39
	14410 Apr 17 11:21	0°♌		minimum elong	14411 Apr 08 22:20	28°♌32'19	0°23'43
desc. node	14410 Apr 19 04:33	2°♌57'51			14411 Apr 09 18:35	0°♌	
				max. Earth dist.	14411 Apr 16 11:17	11°♌17'12	1.42815 AU
superior conj	14410 Apr 27 14:03	17°♌08'19	-1°02'57	evening rise	14411 Apr 22 12:50	21°♌03'19	
minimum elong	14410 Apr 27 07:53	16°♌42'51	1°02'46		14411 Apr 28 07:17	0°♌	
max. Earth dist.	14410 May 03 21:21	27°♌22'21	1.44471 AU		14411 May 19 14:48	0°♌	
	14410 May 05 12:59	0°♌		evening max el	14411 May 24 23:37	6°♌02'38	22°06'04
evening rise	14410 May 12 14:45	11°♌02'08		asc. node	14411 May 31 03:23	10°♌46'34	
	14410 May 25 06:04	0°♌		retrograde	14411 Jun 03 11:08	11°♌36'04	
evening max el	14410 Jun 11 04:44	22°♌11'26	20°50'44	evening set	14411 Jun 08 03:52	9°♌39'02	
asc. node	14410 Jun 13 06:20	24°♌05'56		inferior conj	14411 Jun 13 10:15	3°♌20'07	3°03'16
retrograde	14410 Jun 19 13:19	27°♌01'20		minimum elong	14411 Jun 13 09:10	3°♌23'54	3°02'07
evening set	14410 Jun 23 18:56	25°♌20'29		min. Earth dist.	14411 Jun 13 09:42	3°♌22'04	0.68993 AU
inferior conj	14410 Jun 29 00:48	19°♌11'26	3°10'47		14411 Jun 15 21:34	30°♌	
minimum elong	14410 Jun 29 00:37	19°♌12'02	3°09'46	morning rise	14411 Jun 18 14:17	27°♌06'19	
min. Earth dist.	14410 Jun 29 13:26	18°♌27'41	0.68598 AU	direct	14411 Jun 23 09:00	25°♌04'42	
morning rise	14410 Jul 04 06:02	12°♌51'16			14411 Jul 02 04:26	0°♌	
direct	14410 Jul 09 13:17	10°♌31'57		morning max el	14411 Jul 02 19:10	0°♌36'16	22°06'46
desc. node	14410 Jul 16 04:24	13°♌17'28		desc. node	14411 Jul 03 01:39	0°♌52'38	
morning max el	14410 Jul 20 06:33	16°♌55'57	23°35'14		14411 Jul 24 21:53	0°♌	
	14410 Jul 31 02:47	0°♌		morning set	14411 Aug 04 17:49	16°♌48'53	
	14410 Aug 20 04:39	0°♌		max. Earth dist.	14411 Aug 10 04:36	25°♌44'18	1.41456 AU
morning set	14410 Aug 24 05:11	6°♌39'59			14411 Aug 12 17:19	0°♌	
max. Earth dist.	14410 Aug 28 03:35	13°♌25'08	1.39130 AU				




































































































































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minimum elong	14411 Aug 18 05:28	9° $\cap$ 33'18	1°15'29	minimum elong	14412 Jul 29 13:55	20° $\Omega$ 35'34	1°47'39
asc. node	14411 Aug 27 04:02	25° $\cap$ 49'51			14412 Aug 04 02:26	0° $\cap$	
evening rise	14411 Aug 28 11:44	28° $\cap$ 17'01		evening rise	14412 Aug 10 09:11	11° $\cap$ 00'01	
	14411 Aug 29 09:56	0° $\underline{\cap}$		asc. node	14412 Aug 13 00:36	15° $\cap$ 39'43	
evening max el	14411 Sep 13 10:49	23° $\underline{\cap}$ 45'29	18°14'30		14412 Aug 21 14:40	0° $\underline{\cap}$	
retrograde	14411 Sep 20 17:23	27° $\underline{\cap}$ 27'34		evening max el	14412 Aug 26 23:38	6° $\underline{\cap}$ 49'35	18°02'23
evening set	14411 Sep 22 20:40	27° $\underline{\cap}$ 09'01		retrograde	14412 Sep 02 14:12	10° $\underline{\cap}$ 14'11	
desc. node	14411 Sep 28 22:07	23° $\underline{\cap}$ 32'51		evening set	14412 Sep 05 01:12	9° $\underline{\cap}$ 45'34	
inferior conj	14411 Sep 30 06:08	22° $\underline{\cap}$ 25'53	-0°25'15	inferior conj	14412 Sep 11 17:44	4° $\underline{\cap}$ 42'28	0°55'44
minimum elong	14411 Sep 30 05:14	22° $\underline{\cap}$ 27'49	0°24'34	minimum elong	14412 Sep 11 19:20	4° $\underline{\cap}$ 38'32	0°55'09
min. Earth dist.	14411 Oct 03 13:01	19° $\underline{\cap}$ 39'09	0.58957 AU	desc. node	14412 Sep 14 19:39	1° $\underline{\cap}$ 42'10	
morning rise	14411 Oct 07 10:24	16° $\underline{\cap}$ 55'21		min. Earth dist.	14412 Sep 14 19:26	1° $\underline{\cap}$ 42'40	0.61243 AU
direct	14411 Oct 13 20:06	15° $\underline{\cap}$ 04'29			14412 Sep 16 18:07	30° $\mathbb{R}$ $\cap$	
morning max el	14411 Oct 28 03:21	22° $\underline{\cap}$ 46'58	27°32'39	morning rise	14412 Sep 18 10:40	28° $\cap$ 44'27	
	14411 Nov 03 13:49	0° $\mathbb{L}$		direct	14412 Sep 25 02:11	26° $\cap$ 29'51	
	14411 Nov 22 09:39	0° $\mathbb{A}$			14412 Oct 04 03:38	0° $\underline{\cap}$	
asc. node	14411 Nov 23 05:47	1° $\mathbb{A}$ 37'35		morning max el	14412 Oct 09 07:24	4° $\underline{\cap}$ 25'58	27°58'25
morning set	14411 Nov 28 12:41	12° $\mathbb{A}$ 24'42			14412 Oct 28 08:56	0° $\mathbb{L}$	
				asc. node	14412 Nov 09 02:36	21° $\mathbb{L}$ 21'38	
superior conj	14411 Dec 05 11:37	27° $\mathbb{A}$ 40'36	1°32'07	morning set	14412 Nov 11 15:00	26° $\mathbb{L}$ 29'15	
minimum elong	14411 Dec 05 10:13	27° $\mathbb{A}$ 32'49	1°33'03		14412 Nov 13 07:12	0° $\mathbb{A}$	
max. Earth dist.	14411 Dec 05 01:30	26° $\mathbb{A}$ 44'03	1.31123 AU	max. Earth dist.	14412 Nov 17 07:59	8° $\mathbb{A}$ 43'29	1.31419 AU
	14411 Dec 06 12:32	0° $\mathbb{B}$					
evening rise	14411 Dec 12 05:08	12° $\mathbb{B}$ 32'34		superior conj	14412 Nov 18 22:02	12° $\mathbb{A}$ 13'45	1°20'53
	14411 Dec 20 22:32	0° $\approx$		minimum elong	14412 Nov 18 19:58	12° $\mathbb{A}$ 02'17	1°21'35
desc. node	14411 Dec 25 19:50	8° $\approx$ 29'40		evening rise	14412 Nov 25 14:56	27° $\mathbb{A}$ 01'44	
evening max el	14412 Jan 10 10:13	28° $\approx$ 53'52	26°29'30		14412 Nov 27 00:12	0° $\mathbb{B}$	
	14412 Jan 11 15:08	0° $\mathbb{H}$		desc. node	14412 Dec 11 16:47	26° $\mathbb{B}$ 50'30	
retrograde	14412 Jan 24 09:22	6° $\mathbb{H}$ 01'10			14412 Dec 13 21:33	0° $\approx$	
evening set	14412 Jan 30 20:07	4° $\mathbb{H}$ 20'01		evening max el	14412 Dec 22 02:12	9° $\approx$ 36'31	25°08'20
min. Earth dist.	14412 Feb 03 23:50	1° $\mathbb{H}$ 42'58	0.58605 AU	retrograde	14413 Jan 04 21:43	16° $\approx$ 32'12	
	14412 Feb 06 06:51	30° $\mathbb{R}$ $\approx$		evening set	14413 Jan 10 14:08	15° $\approx$ 19'32	
inferior conj	14412 Feb 07 03:16	29° $\approx$ 21'14	-3°43'43	min. Earth dist.	14413 Jan 15 14:14	12° $\approx$ 36'59	0.56633 AU
minimum elong	14412 Feb 07 11:21	29° $\approx$ 06'00	3°40'23	inferior conj	14413 Jan 18 06:20	10° $\approx$ 52'27	-5°02'46
morning rise	14412 Feb 15 05:41	24° $\approx$ 49'38		minimum elong	14413 Jan 18 15:08	10° $\approx$ 38'03	4°59'53
direct	14412 Feb 17 05:58	24° $\approx$ 35'37		morning rise	14413 Jan 26 18:35	6° $\approx$ 42'51	
asc. node	14412 Feb 19 03:54	24° $\approx$ 48'52		direct	14413 Jan 28 23:00	6° $\approx$ 29'09	
morning max el	14412 Feb 25 07:35	28° $\approx$ 34'39	18°24'13	asc. node	14413 Feb 05 01:20	9° $\approx$ 05'01	
	14412 Feb 26 15:59	0° $\mathbb{H}$		morning max el	14413 Feb 07 08:14	11° $\approx$ 02'28	19°14'44
morning set	14412 Mar 12 03:03	23° $\mathbb{H}$ 49'25			14413 Feb 19 22:44	0° $\mathbb{H}$	
	14412 Mar 15 08:41	0° $\mathbb{Y}$		morning set	14413 Feb 24 03:54	8° $\mathbb{H}$ 13'36	
superior conj	14412 Mar 21 08:30	11° $\mathbb{Y}$ 13'31	0°12'36	superior conj	14413 Mar 04 09:48	24° $\mathbb{H}$ 32'07	0°43'01
minimum elong	14412 Mar 21 09:23	11° $\mathbb{Y}$ 17'37	0°12'20	minimum elong	14413 Mar 04 12:11	24° $\mathbb{H}$ 43'37	0°42'51
behind sun begin	14412 Mar 21 04:46	10° $\mathbb{Y}$ 56'23			14413 Mar 07 06:33	0° $\mathbb{Y}$	
behind sun end	14412 Mar 21 14:01	11° $\mathbb{Y}$ 38'49		desc. node	14413 Mar 09 18:08	4° $\mathbb{Y}$ 36'43	
desc. node	14412 Mar 22 21:39	14° $\mathbb{Y}$ 02'44		max. Earth dist.	14413 Mar 11 03:27	7° $\mathbb{Y}$ 08'21	1.38465 AU
max. Earth dist.	14412 Mar 28 20:56	24° $\mathbb{Y}$ 33'58	1.40735 AU	evening rise	14413 Mar 14 21:04	13° $\mathbb{Y}$ 45'07	
	14412 Apr 01 02:06	0° $\mathbb{B}$			14413 Mar 24 17:48	0° $\mathbb{B}$	
evening rise	14412 Apr 02 06:25	1° $\mathbb{B}$ 57'17			14413 Apr 15 14:21	0° $\mathbb{I}$	
	14412 Apr 20 15:20	0° $\mathbb{I}$		evening max el	14413 Apr 19 04:22	3° $\mathbb{I}$ 48'17	24°46'40
evening max el	14412 May 06 14:50	19° $\mathbb{I}$ 55'13	23°26'49	retrograde	14413 Apr 30 22:16	10° $\mathbb{I}$ 39'40	
retrograde	14412 May 17 06:30	26° $\mathbb{I}$ 11'04		asc. node	14413 May 03 21:49	10° $\mathbb{I}$ 01'19	
asc. node	14412 May 17 00:32	26° $\mathbb{I}$ 10'47		evening set	14413 May 06 14:09	8° $\mathbb{I}$ 16'41	
evening set	14412 May 22 10:48	23° $\mathbb{I}$ 59'36		min. Earth dist.	14413 May 11 01:27	3° $\mathbb{I}$ 13'04	0.68338 AU
inferior conj	14412 May 27 19:50	17° $\mathbb{I}$ 33'11	2°45'23	inferior conj	14413 May 12 03:37	1° $\mathbb{I}$ 46'12	2°17'08
minimum elong	14412 May 27 18:03	17° $\mathbb{I}$ 39'19	2°44'03	minimum elong	14413 May 12 01:29	1° $\mathbb{I}$ 53'19	2°15'42
min. Earth dist.	14412 May 27 06:24	18° $\mathbb{I}$ 19'26	0.68901 AU		14413 May 13 12:06	30° $\mathbb{R}$ $\mathbb{B}$	
morning rise	14412 Jun 02 01:15	11° $\mathbb{I}$ 27'09		morning rise	14413 May 17 13:04	25° $\mathbb{B}$ 48'59	
direct	14412 Jun 06 07:28	9° $\mathbb{I}$ 45'42		direct	14413 May 21 07:15	24° $\mathbb{B}$ 28'02	
morning max el	14412 Jun 14 13:06	14° $\mathbb{I}$ 27'35	20°45'54	morning max el	14413 May 28 14:18	28° $\mathbb{B}$ 30'03	19°37'35
desc. node	14412 Jun 18 22:47	19° $\mathbb{I}$ 23'29			14413 May 30 00:57	0° $\mathbb{I}$	
	14412 Jun 26 21:26	0° $\mathbb{B}$		desc. node	14413 Jun 05 19:48	8° $\mathbb{I}$ 34'29	
morning set	14412 Jul 14 07:31	25° $\mathbb{B}$ 59'39		greatest brilliancy	14413 Jun 10 06:37	14° $\mathbb{I}$ 55'59	-0.6m
	14412 Jul 16 21:06	0° $\Omega$			14413 Jun 20 07:31	0° $\mathbb{B}$	
max. Earth dist.	14412 Jul 22 12:30	8° $\Omega$ 58'48	1.43473 AU	morning set	14413 Jun 23 09:54	4° $\mathbb{B}$ 44'42	
































































































































max. Earth dist.	14413 Jul 05 02:28	22° $\mathfrak{D}$ 55'42	1.44958 AU	superior conj	14414 Jun 19 02:35	9° $\mathfrak{D}$ 17'15	-2°12'49
				minimum elong	14414 Jun 19 00:13	9° $\mathfrak{D}$ 07'58	2°13'51
superior conj	14413 Jul 09 13:38	0° $\mathfrak{Q}$ 01'47	-2°08'56		14414 Jul 02 05:25	0° $\mathfrak{Q}$	
minimum elong	14413 Jul 09 18:32	0° $\mathfrak{Q}$ 21'24	2°09'41	evening rise	14414 Jul 04 12:10	3° $\mathfrak{Q}$ 38'52	
	14413 Jul 09 13:11	0° $\mathfrak{Q}$		greatest brilliancy	14414 Jul 10 15:21	13° $\mathfrak{Q}$ 27'48	-0.9m
evening rise	14413 Jul 23 10:45	22° $\mathfrak{Q}$ 50'18		asc. node	14414 Jul 17 17:57	24° $\mathfrak{Q}$ 28'52	
	14413 Jul 27 17:14	0° $\mathfrak{P}$			14414 Jul 21 17:12	0° $\mathfrak{P}$	
asc. node	14413 Jul 30 21:14	5° $\mathfrak{P}$ 14'36		evening max el	14414 Jul 25 03:22	3° $\mathfrak{P}$ 56'04	18°33'32
evening max el	14413 Aug 10 14:12	20° $\mathfrak{P}$ 15'39	18°09'01	retrograde	14414 Jul 31 15:17	7° $\mathfrak{P}$ 26'18	
retrograde	14413 Aug 16 22:53	23° $\mathfrak{P}$ 36'28		evening set	14414 Aug 03 19:34	6° $\mathfrak{P}$ 29'11	
evening set	14413 Aug 19 18:17	22° $\mathfrak{P}$ 54'45		inferior conj	14414 Aug 09 12:22	0° $\mathfrak{P}$ 53'18	2°35'38
inferior conj	14413 Aug 25 21:07	17° $\mathfrak{P}$ 34'15	1°55'20	minimum elong	14414 Aug 09 14:32	0° $\mathfrak{P}$ 46'41	2°34'33
minimum elong	14413 Aug 25 23:33	17° $\mathfrak{P}$ 27'33	1°54'17		14414 Aug 10 05:50	30° $\mathfrak{R}$ $\mathfrak{Q}$	
min. Earth dist.	14413 Aug 28 11:46	14° $\mathfrak{P}$ 41'46	0.63464 AU	min. Earth dist.	14414 Aug 11 13:19	28° $\mathfrak{Q}$ 25'00	0.65432 AU
morning rise	14413 Sep 01 02:53	11° $\mathfrak{P}$ 18'58		morning rise	14414 Aug 15 08:22	24° $\mathfrak{Q}$ 29'52	
desc. node	14413 Sep 01 17:12	10° $\mathfrak{P}$ 52'48		desc. node	14414 Aug 19 14:45	22° $\mathfrak{Q}$ 08'01	
direct	14413 Sep 07 18:16	8° $\mathfrak{P}$ 47'32		direct	14414 Aug 21 18:41	21° $\mathfrak{Q}$ 50'46	
morning max el	14413 Sep 21 16:25	16° $\mathfrak{P}$ 48'30	27°45'52	morning max el	14414 Sep 04 03:27	29° $\mathfrak{Q}$ 43'28	27°00'34
	14413 Oct 02 15:20	0° $\mathfrak{L}$			14414 Sep 04 09:58	0° $\mathfrak{P}$	
	14413 Oct 21 03:44	0° $\mathfrak{M}$			14414 Sep 26 13:35	0° $\mathfrak{L}$	
morning set	14413 Oct 26 09:58	10° $\mathfrak{M}$ 10'44		morning set	14414 Oct 09 18:46	23° $\mathfrak{L}$ 22'21	
asc. node	14413 Oct 26 23:20	11° $\mathfrak{M}$ 18'01			14414 Oct 13 03:41	0° $\mathfrak{M}$	
max. Earth dist.	14413 Oct 31 08:41	20° $\mathfrak{M}$ 24'57	1.32254 AU	asc. node	14414 Oct 13 19:59	1° $\mathfrak{M}$ 22'03	
				max. Earth dist.	14414 Oct 14 00:20	1° $\mathfrak{M}$ 44'08	1.33639 AU
superior conj	14413 Nov 03 05:24	26° $\mathfrak{M}$ 34'46	1°03'48				
minimum elong	14413 Nov 03 03:06	26° $\mathfrak{M}$ 22'14	1°04'16	superior conj	14414 Oct 18 07:29	10° $\mathfrak{M}$ 37'44	0°41'00
	14413 Nov 04 19:01	0° $\mathfrak{J}$		minimum elong	14414 Oct 18 05:33	10° $\mathfrak{M}$ 27'35	0°41'15
evening rise	14413 Nov 10 01:57	11° $\mathfrak{J}$ 32'07		evening rise	14414 Oct 25 12:21	25° $\mathfrak{M}$ 58'56	
	14413 Nov 19 08:07	0° $\mathfrak{Z}$			14414 Oct 27 10:18	0° $\mathfrak{J}$	
desc. node	14413 Nov 28 13:52	14° $\mathfrak{Z}$ 11'02		evening max el	14414 Nov 15 00:40	29° $\mathfrak{J}$ 44'00	21°47'35
evening max el	14413 Dec 03 12:12	19° $\mathfrak{Z}$ 41'58	23°28'31	desc. node	14414 Nov 15 11:04	0° $\mathfrak{Z}$ 09'07	
retrograde	14413 Dec 16 21:26	26° $\mathfrak{Z}$ 20'59			14414 Nov 15 07:15	0° $\mathfrak{Z}$	
evening set	14413 Dec 21 09:00	25° $\mathfrak{Z}$ 37'20		retrograde	14414 Nov 27 10:10	5° $\mathfrak{Z}$ 52'21	
min. Earth dist.	14413 Dec 27 22:42	22° $\mathfrak{Z}$ 30'06	0.55166 AU	evening set	14414 Nov 30 13:05	5° $\mathfrak{Z}$ 30'28	
inferior conj	14413 Dec 29 13:15	21° $\mathfrak{Z}$ 33'46	-5°52'57	inferior conj	14414 Dec 09 06:31	1° $\mathfrak{Z}$ 37'52	-5°50'10
minimum elong	14413 Dec 29 17:11	21° $\mathfrak{Z}$ 28'01	5°51'37	minimum elong	14414 Dec 09 01:23	1° $\mathfrak{Z}$ 45'03	5°48'35
morning rise	14414 Jan 07 03:00	17° $\mathfrak{Z}$ 41'22		min. Earth dist.	14414 Dec 09 04:44	1° $\mathfrak{Z}$ 40'22	0.54486 AU
direct	14414 Jan 09 20:37	17° $\mathfrak{Z}$ 23'14			14414 Dec 12 06:13	30° $\mathfrak{R}$ $\mathfrak{J}$	
morning max el	14414 Jan 20 19:33	22° $\mathfrak{Z}$ 38'38	20°28'20	morning rise	14414 Dec 17 14:29	27° $\mathfrak{J}$ 50'08	
asc. node	14414 Jan 22 22:43	24° $\mathfrak{Z}$ 53'01		direct	14414 Dec 21 05:55	27° $\mathfrak{J}$ 21'02	
	14414 Jan 26 21:20	0° $\mathfrak{A}$			14414 Dec 29 11:53	0° $\mathfrak{Z}$	
morning set	14414 Feb 08 10:49	22° $\mathfrak{A}$ 52'02		morning max el	14415 Jan 02 16:16	3° $\mathfrak{Z}$ 19'59	22°03'31
	14414 Feb 11 21:35	0° $\mathfrak{H}$		asc. node	14415 Jan 09 20:01	11° $\mathfrak{Z}$ 54'29	
					14415 Jan 20 04:45	0° $\mathfrak{A}$	
superior conj	14414 Feb 16 00:04	8° $\mathfrak{H}$ 25'28	1°06'42	morning set	14415 Jan 23 21:15	7° $\mathfrak{A}$ 36'24	
minimum elong	14414 Feb 16 02:43	8° $\mathfrak{H}$ 38'56	1°06'50				
max. Earth dist.	14414 Feb 21 10:47	19° $\mathfrak{H}$ 10'40	1.36259 AU	superior conj	14415 Jan 30 23:29	22° $\mathfrak{A}$ 42'00	1°23'34
desc. node	14414 Feb 24 14:38	25° $\mathfrak{H}$ 07'18		minimum elong	14415 Jan 31 01:39	22° $\mathfrak{A}$ 53'24	1°24'05
evening rise	14414 Feb 25 06:39	26° $\mathfrak{H}$ 20'47			14415 Feb 03 11:49	0° $\mathfrak{H}$	
	14414 Feb 27 07:11	0° $\mathfrak{Y}$		max. Earth dist.	14415 Feb 03 23:47	1° $\mathfrak{H}$ 00'52	1.34326 AU
	14414 Mar 18 04:47	0° $\mathfrak{B}$		evening rise	14415 Feb 08 07:31	9° $\mathfrak{H}$ 33'46	
evening max el	14414 Apr 01 17:51	17° $\mathfrak{B}$ 39'48	25°58'28	desc. node	14415 Feb 11 11:11	15° $\mathfrak{H}$ 29'44	
retrograde	14414 Apr 14 09:28	24° $\mathfrak{B}$ 55'23			14415 Feb 19 19:50	0° $\mathfrak{Y}$	
evening set	14414 Apr 20 12:13	22° $\mathfrak{B}$ 25'10			14415 Mar 13 22:39	0° $\mathfrak{B}$	
asc. node	14414 Apr 20 19:11	22° $\mathfrak{B}$ 10'20		evening max el	14415 Mar 15 07:40	1° $\mathfrak{B}$ 22'23	26°54'49
min. Earth dist.	14414 Apr 24 16:52	17° $\mathfrak{B}$ 56'58	0.67328 AU	retrograde	14415 Mar 28 14:58	8° $\mathfrak{B}$ 49'29	
inferior conj	14414 Apr 26 07:40	15° $\mathfrak{B}$ 55'21	1°38'05	evening set	14415 Apr 04 03:05	6° $\mathfrak{B}$ 17'28	
minimum elong	14414 Apr 26 05:39	16° $\mathfrak{B}$ 01'40	1°36'45	asc. node	14415 Apr 07 16:38	2° $\mathfrak{B}$ 50'33	
morning rise	14414 May 01 23:47	10° $\mathfrak{B}$ 08'11		min. Earth dist.	14415 Apr 08 02:27	2° $\mathfrak{B}$ 23'01	0.65904 AU
direct	14414 May 05 06:52	9° $\mathfrak{B}$ 06'18		inferior conj	14415 Apr 10 05:40	29° $\mathfrak{Y}$ 54'34	0°47'28
morning max el	14414 May 11 22:44	12° $\mathfrak{B}$ 40'57	18°44'38	minimum elong	14415 Apr 10 04:27	29° $\mathfrak{Y}$ 58'05	0°46'35
desc. node	14414 May 23 16:42	28° $\mathfrak{B}$ 15'02			14415 Apr 10 03:48	30° $\mathfrak{R}$ $\mathfrak{Y}$	
	14414 May 24 20:22	0° $\mathfrak{I}$		morning rise	14415 Apr 16 07:11	24° $\mathfrak{Y}$ 19'12	
morning set	14414 Jun 02 21:49	14° $\mathfrak{I}$ 01'41		direct	14415 Apr 19 04:18	23° $\mathfrak{Y}$ 33'50	
	14414 Jun 13 03:45	0° $\mathfrak{G}$		morning max el	14415 Apr 25 12:47	26° $\mathfrak{Y}$ 53'40	18°08'20
max. Earth dist.	14414 Jun 17 20:25	7° $\mathfrak{G}$ 19'23	1.45771 AU		14415 Apr 28 07:50	0° $\mathfrak{B}$	
				desc. node	14415 May 10 13:27	18° $\mathfrak{B}$ 16'30	

morning set	14415 May 14 10:52	24°♄33'02		direct	14416 Apr 01 20:58	7°♄44'26	
	14415 May 17 20:05	0°♄		morning max el	14416 Apr 08 06:01	11°♄01'06	17°49'13
					14416 Apr 21 08:21	0°♄	
superior conj	14415 May 29 11:31	18°♄28'27	-1°56'38	morning set	14416 Apr 25 03:36	6°♄24'19	
minimum elong	14415 May 29 03:11	17°♄55'44	1°57'02	desc. node	14416 Apr 26 10:06	8°♄32'58	
max. Earth dist.	14415 May 31 16:27	21°♄55'34	1.45840 AU				
	14415 Jun 05 20:51	0°♄		superior conj	14416 May 08 09:21	28°♄19'06	-1°24'54
evening rise	14415 Jun 14 13:56	13°♄30'28		minimum elong	14416 May 08 01:12	27°♄46'10	1°24'45
	14415 Jun 25 07:26	0°♄			14416 May 09 10:27	0°♄	
greatest brilliancy	14415 Jun 26 13:04	1°♄51'30	-0.7m	max. Earth dist.	14416 May 13 12:10	6°♄28'53	1.45169 AU
asc. node	14415 Jul 04 14:46	13°♄14'56		evening rise	14416 May 24 01:53	22°♄54'04	
evening max el	14415 Jul 08 12:39	17°♄44'08	19°15'04		14416 May 28 17:52	0°♄	
retrograde	14415 Jul 15 12:08	21°♄36'31			14416 Jun 19 04:31	0°♄	
evening set	14415 Jul 19 01:50	20°♄22'32		asc. node	14416 Jun 20 11:41	1°♄22'38	
inferior conj	14415 Jul 24 12:01	14°♄32'46	2°59'42	evening max el	14416 Jun 20 16:20	1°♄34'21	20°12'02
minimum elong	14415 Jul 24 13:24	14°♄28'15	2°58'42	retrograde	14416 Jun 28 10:55	6°♄00'32	
min. Earth dist.	14415 Jul 25 22:33	12°♄40'29	0.67016 AU	evening set	14416 Jul 02 10:37	4°♄29'11	
morning rise	14415 Jul 30 00:22	8°♄07'40			14416 Jul 06 13:34	30°♄	
direct	14415 Aug 05 01:52	5°♄30'27		inferior conj	14416 Jul 07 17:16	28°♄26'42	3°10'11
desc. node	14415 Aug 06 12:13	5°♄38'11		minimum elong	14416 Jul 07 17:39	28°♄25'20	3°09'12
morning max el	14415 Aug 17 14:29	12°♄59'27	25°51'03	min. Earth dist.	14416 Jul 08 13:38	27°♄17'15	0.68155 AU
	14415 Aug 31 08:30	0°♄		morning rise	14416 Jul 13 00:22	22°♄04'08	
	14415 Sep 19 06:45	0°♄		direct	14416 Jul 18 14:38	19°♄36'43	
morning set	14415 Sep 22 13:53	5°♄55'59		desc. node	14416 Jul 23 09:36	21°♄03'29	
max. Earth dist.	14415 Sep 26 06:17	12°♄49'47	1.35524 AU	morning max el	14416 Jul 30 00:58	26°♄27'22	24°26'46
asc. node	14415 Sep 30 16:34	21°♄29'54			14416 Aug 02 07:34	0°♄	
					14416 Aug 23 22:06	0°♄	
superior conj	14415 Oct 02 01:38	24°♄16'18	0°12'47	morning set	14416 Sep 03 15:03	17°♄40'46	
minimum elong	14415 Oct 02 00:53	24°♄12'30	0°12'58	max. Earth dist.	14416 Sep 07 05:41	24°♄04'19	1.37768 AU
behind sun begin	14415 Oct 01 21:12	23°♄53'55			14416 Sep 10 11:20	0°♄	
behind sun end	14415 Oct 02 04:33	24°♄31'07					
	14415 Oct 04 20:52	0°♄		superior conj	14416 Sep 14 08:27	7°♄21'19	-0°20'01
evening rise	14415 Oct 09 20:06	10°♄17'23		minimum elong	14416 Sep 14 09:49	7°♄27'49	0°19'45
	14415 Oct 20 05:36	0°♄		asc. node	14416 Sep 16 13:05	11°♄37'16	
evening max el	14415 Oct 28 00:26	10°♄18'00	20°20'29	evening rise	14416 Sep 22 22:43	24°♄20'25	
desc. node	14415 Nov 02 08:23	14°♄19'06			14416 Sep 25 19:31	0°♄	
retrograde	14415 Nov 07 21:16	15°♄42'24		evening max el	14416 Oct 09 14:26	21°♄39'39	19°14'21
evening set	14415 Nov 10 01:34	15°♄30'22		retrograde	14416 Oct 18 20:05	26°♄17'36	
inferior conj	14415 Nov 18 23:23	11°♄34'33	-4°47'57	desc. node	14416 Oct 19 05:46	26°♄17'06	
minimum elong	14415 Nov 18 13:20	11°♄49'18	4°44'22	evening set	14416 Oct 20 16:53	26°♄07'03	
min. Earth dist.	14415 Nov 20 11:18	10°♄41'47	0.54743 AU	inferior conj	14416 Oct 29 05:42	21°♄56'12	-3°07'51
morning rise	14415 Nov 27 00:33	7°♄32'48		minimum elong	14416 Oct 28 21:49	22°♄09'21	3°04'12
direct	14415 Dec 01 15:37	6°♄46'36		min. Earth dist.	14416 Oct 31 21:30	20°♄10'08	0.55889 AU
morning max el	14415 Dec 15 03:02	13°♄23'03	23°51'53	morning rise	14416 Nov 06 00:18	17°♄22'46	
asc. node	14415 Dec 27 17:12	29°♄52'39		direct	14416 Nov 11 11:39	16°♄14'12	
	14415 Dec 27 18:59	0°♄		morning max el	14416 Nov 25 13:01	23°♄21'23	25°37'03
morning set	14416 Jan 08 09:08	22°♄21'14			14416 Dec 01 12:40	0°♄	
	14416 Jan 11 21:45	0°♄		asc. node	14416 Dec 13 14:16	18°♄32'55	
					14416 Dec 19 12:33	0°♄	
superior conj	14416 Jan 15 05:11	7°♄13'40	1°33'52	morning set	14416 Dec 22 20:39	7°♄01'01	
minimum elong	14416 Jan 15 06:26	7°♄20'26	1°34'42				
max. Earth dist.	14416 Jan 17 20:42	12°♄55'44	1.32799 AU	superior conj	14416 Dec 29 14:44	21°♄53'15	1°37'55
evening rise	14416 Jan 22 20:17	23°♄15'27		minimum elong	14416 Dec 29 14:54	21°♄54'12	1°38'55
	14416 Jan 26 06:54	0°♄		max. Earth dist.	14416 Dec 31 00:19	24°♄58'53	1.31742 AU
desc. node	14416 Jan 29 07:47	5°♄39'33			14417 Jan 02 07:26	0°♄	
	14416 Feb 13 11:51	0°♄		evening rise	14417 Jan 05 17:55	7°♄17'55	
evening max el	14416 Feb 25 20:43	14°♄45'14	27°28'17	desc. node	14417 Jan 15 04:28	25°♄30'43	
retrograde	14416 Mar 10 13:41	22°♄13'34			14417 Jan 17 18:39	0°♄	
evening set	14416 Mar 17 08:32	19°♄46'05		evening max el	14417 Feb 07 06:51	27°♄35'10	27°32'19
min. Earth dist.	14416 Mar 21 04:07	16°♄22'33	0.64120 AU		14417 Feb 10 00:17	0°♄	
inferior conj	14416 Mar 23 18:59	13°♄37'32	-0°15'21	retrograde	14417 Feb 21 04:48	4°♄58'26	
minimum elong	14416 Mar 23 19:27	13°♄36'17	0°15'18	evening set	14417 Feb 28 01:56	2°♄42'45	
transit middle	14416 Mar 23 19:27	13°♄36'17	0°15'18		14417 Mar 03 13:24	30°♄	
transit begin	14416 Mar 23 18:33	13°♄38'40		min. Earth dist.	14417 Mar 03 20:27	29°♄45'01	0.62054 AU
transit end	14416 Mar 23 20:21	13°♄33'54		inferior conj	14417 Mar 06 20:29	26°♄56'16	-1°30'04
asc. node	14416 Mar 24 14:07	12°♄47'32		minimum elong	14417 Mar 06 23:36	26°♄48'57	1°28'37
morning rise	14416 Mar 30 08:32	8°♄16'27		asc. node	14417 Mar 11 11:35	23°♄06'58	

morning rise	14417 Mar 14 00:11	21° $\text{H}$ 52'32		asc. node	14418 Feb 26 09:03	4° $\text{H}$ 43'11	
direct	14417 Mar 16 05:33	21° $\text{H}$ 30'22		direct	14418 Feb 27 01:56	4° $\text{H}$ 41'15	
morning max el	14417 Mar 22 23:26	24° $\text{H}$ 55'01	17°47'51	morning max el	14418 Mar 06 13:31	8° $\text{H}$ 24'49	18°05'11
	14417 Mar 27 04:32	0° $\text{Y}$			14418 Mar 20 12:19	0° $\text{Y}$	
morning set	14417 Apr 07 19:13	19° $\text{Y}$ 20'25		morning set	14418 Mar 22 03:35	3° $\text{Y}$ 02'10	
desc. node	14417 Apr 13 06:42	28° $\text{Y}$ 59'52		desc. node	14418 Mar 31 03:14	19° $\text{Y}$ 32'29	
	14417 Apr 13 20:30	0° $\text{Z}$					
superior conj	14417 Apr 19 06:01	9° $\text{Z}$ 14'41	-0°46'10	superior conj	14418 Apr 01 02:10	21° $\text{Y}$ 14'45	-0°07'43
minimum elong	14417 Apr 19 01:36	8° $\text{Z}$ 56'07	0°46'05	minimum elong	14418 Apr 01 01:31	21° $\text{Y}$ 11'51	0°07'53
max. Earth dist.	14417 Apr 26 04:54	20° $\text{Z}$ 42'47	1.43827 AU	behind sun begin	14418 Mar 31 18:42	20° $\text{Y}$ 41'34	
	14417 May 02 01:11	0° $\text{II}$		behind sun end	14418 Apr 01 08:19	21° $\text{Y}$ 42'05	
evening rise	14417 May 03 16:09	2° $\text{II}$ 31'43			14418 Apr 06 02:47	0° $\text{Z}$	
	14417 May 22 05:30	0° $\text{S}$		max. Earth dist.	14418 Apr 08 16:44	4° $\text{Z}$ 21'31	1.41961 AU
evening max el	14417 Jun 03 14:04	15° $\text{S}$ 24'57	21°21'44	evening rise	14418 Apr 13 21:54	12° $\text{Z}$ 54'01	
asc. node	14417 Jun 07 08:42	18° $\text{S}$ 39'44			14418 Apr 24 23:45	0° $\text{II}$	
retrograde	14417 Jun 12 09:40	20° $\text{S}$ 33'14		evening max el	14418 May 17 06:58	29° $\text{II}$ 15'53	22°40'05
evening set	14417 Jun 16 20:01	18° $\text{S}$ 45'06			14418 May 18 01:00	0° $\text{S}$	
inferior conj	14417 Jun 22 01:47	12° $\text{S}$ 31'25	3°08'54	asc. node	14418 May 25 05:49	4° $\text{S}$ 49'57	
minimum elong	14417 Jun 22 01:12	12° $\text{S}$ 33'25	3°07'50	retrograde	14418 May 27 06:45	5° $\text{S}$ 08'36	
min. Earth dist.	14417 Jun 22 08:39	12° $\text{S}$ 07'27	0.68820 AU	evening set	14418 Jun 01 04:17	3° $\text{S}$ 05'07	
morning rise	14417 Jun 27 06:12	6° $\text{S}$ 13'51			14418 Jun 04 01:02	30° $\text{R}$ $\text{II}$	
direct	14417 Jul 02 08:03	4° $\text{S}$ 01'56		inferior conj	14418 Jun 06 11:31	26° $\text{II}$ 42'25	2°56'57
desc. node	14417 Jul 10 06:52	7° $\text{S}$ 58'13		minimum elong	14418 Jun 06 10:07	26° $\text{II}$ 47'19	2°55'43
morning max el	14417 Jul 12 12:13	10° $\text{S}$ 03'54	22°57'14	min. Earth dist.	14418 Jun 06 05:26	27° $\text{II}$ 03'37	0.69006 AU
	14417 Jul 28 06:10	0° $\text{Q}$		morning rise	14418 Jun 11 15:49	20° $\text{II}$ 31'36	
morning set	14417 Aug 15 17:56	28° $\text{Q}$ 27'05		direct	14418 Jun 16 05:04	18° $\text{II}$ 38'31	
	14417 Aug 16 16:22	0° $\text{P}$		morning max el	14418 Jun 25 02:49	23° $\text{II}$ 48'46	21°31'04
max. Earth dist.	14417 Aug 20 04:32	5° $\text{P}$ 54'53	1.40138 AU	desc. node	14418 Jun 27 04:03	25° $\text{II}$ 59'00	
					14418 Jun 30 13:31	0° $\text{S}$	
superior conj	14417 Aug 28 00:00	19° $\text{P}$ 43'47	-0°55'29		14418 Jul 21 14:31	0° $\text{Q}$	
minimum elong	14417 Aug 28 04:12	20° $\text{P}$ 02'58	0°55'05	morning set	14418 Jul 26 20:10	8° $\text{Q}$ 09'14	
	14417 Sep 02 12:21	0° $\text{A}$		max. Earth dist.	14418 Aug 02 07:46	18° $\text{Q}$ 35'44	1.42360 AU
asc. node	14417 Sep 03 09:38	1° $\text{A}$ 40'57			14418 Aug 09 02:44	0° $\text{P}$	
evening rise	14417 Sep 06 17:13	8° $\text{A}$ 00'29		superior conj	14418 Aug 09 19:51	1° $\text{P}$ 13'43	-1°30'09
	14417 Sep 19 10:53	0° $\text{M}$		minimum elong	14418 Aug 10 02:42	1° $\text{P}$ 43'19	1°29'53
evening max el	14417 Sep 22 16:33	3° $\text{M}$ 48'28	18°30'17	evening rise	14418 Aug 20 23:40	21° $\text{P}$ 07'11	
retrograde	14417 Sep 30 13:34	7° $\text{M}$ 47'32		asc. node	14418 Aug 21 06:12	21° $\text{P}$ 36'54	
evening set	14417 Oct 02 12:58	7° $\text{M}$ 33'15			14418 Aug 25 21:47	0° $\text{A}$	
desc. node	14417 Oct 06 03:12	6° $\text{M}$ 02'01		evening max el	14418 Sep 06 02:42	16° $\text{A}$ 35'26	18°07'04
inferior conj	14417 Oct 10 08:59	3° $\text{M}$ 02'17	-1°21'09	retrograde	14418 Sep 13 01:17	20° $\text{A}$ 08'25	
minimum elong	14417 Oct 10 05:47	3° $\text{M}$ 08'32	1°19'22	evening set	14418 Sep 15 07:37	19° $\text{A}$ 46'08	
min. Earth dist.	14417 Oct 13 14:16	0° $\text{M}$ 32'28	0.57713 AU	inferior conj	14418 Sep 22 09:37	14° $\text{A}$ 54'35	0°11'43
	14417 Oct 14 08:02	30° $\text{R}$ $\text{A}$		minimum elong	14418 Sep 22 10:00	14° $\text{A}$ 53'42	0°11'44
morning rise	14417 Oct 17 19:06	27° $\text{A}$ 51'03		transit middle	14418 Sep 22 10:00	14° $\text{A}$ 53'42	0°11'44
direct	14417 Oct 23 22:10	26° $\text{A}$ 15'44		transit begin	14418 Sep 22 07:41	14° $\text{A}$ 58'56	
	14417 Nov 02 17:38	0° $\text{M}$		transit end	14418 Sep 22 12:19	14° $\text{A}$ 48'27	
morning max el	14417 Nov 07 05:14	3° $\text{M}$ 48'00	27°00'10	desc. node	14418 Sep 23 00:42	14° $\text{A}$ 20'14	
	14417 Nov 26 05:44	0° $\text{J}$		min. Earth dist.	14418 Sep 25 15:26	11° $\text{A}$ 59'21	0.59916 AU
asc. node	14417 Nov 30 11:13	7° $\text{J}$ 44'30		morning rise	14418 Sep 29 09:06	9° $\text{A}$ 10'59	
morning set	14417 Dec 07 06:04	21° $\text{J}$ 31'07		direct	14418 Oct 05 22:07	7° $\text{A}$ 09'02	
	14417 Dec 11 03:18	0° $\text{Z}$		morning max el	14418 Oct 20 05:10	14° $\text{A}$ 59'12	27°48'26
superior conj	14417 Dec 14 02:07	6° $\text{Z}$ 34'57	1°35'56		14418 Nov 01 09:37	0° $\text{M}$	
minimum elong	14417 Dec 14 01:15	6° $\text{Z}$ 30'06	1°36'57	asc. node	14418 Nov 17 08:04	27° $\text{M}$ 18'59	
max. Earth dist.	14417 Dec 14 07:48	7° $\text{Z}$ 06'48	1.31194 AU		14418 Nov 18 16:19	0° $\text{J}$	
evening rise	14417 Dec 20 21:56	21° $\text{Z}$ 35'06		morning set	14418 Nov 21 11:36	5° $\text{J}$ 46'58	
	14417 Dec 24 23:42	0° $\text{A}$		max. Earth dist.	14418 Nov 27 15:37	19° $\text{J}$ 11'46	1.31176 AU
desc. node	14418 Jan 02 01:15	14° $\text{A}$ 55'29		superior conj	14418 Nov 28 13:28	21° $\text{J}$ 13'32	1°28'04
	14418 Jan 12 00:24	0° $\text{H}$		minimum elong	14418 Nov 28 11:45	21° $\text{J}$ 03'57	1°28'56
evening max el	14418 Jan 20 11:27	9° $\text{H}$ 39'51	27°02'21		14418 Dec 02 11:59	0° $\text{Z}$	
retrograde	14418 Feb 03 11:13	16° $\text{H}$ 54'23		evening rise	14418 Dec 05 06:11	6° $\text{Z}$ 01'58	
evening set	14418 Feb 10 04:02	14° $\text{H}$ 58'25			14418 Dec 17 15:18	0° $\text{A}$	
min. Earth dist.	14418 Feb 14 01:43	12° $\text{H}$ 17'26	0.59849 AU	desc. node	14418 Dec 19 22:09	3° $\text{A}$ 44'00	
inferior conj	14418 Feb 17 06:32	9° $\text{H}$ 40'44	-2°54'01	evening max el	14419 Jan 02 08:25	20° $\text{A}$ 53'07	25°58'18
minimum elong	14418 Feb 17 12:56	9° $\text{H}$ 27'38	2°51'10	retrograde	14419 Jan 16 07:00	27° $\text{A}$ 56'20	
morning rise	14418 Feb 25 01:08	4° $\text{H}$ 57'05		evening set	14419 Jan 22 10:59	26° $\text{A}$ 27'01	

min. Earth dist.	14419 Jan 26 21:33	23°  49'31	0.57720 AU	min. Earth dist.	14420 Jan 08 09:11	4°  16'36	0.55933 AU
inferior conj	14419 Jan 29 21:42	21°  41'48	-4°19'12	inferior conj	14420 Jan 10 15:56	2°  51'51	-5°29'06
minimum elong	14419 Jan 30 06:35	21°  26'03	4°15'50	minimum elong	14420 Jan 10 23:28	2°  40'10	5°26'52
morning rise	14419 Feb 07 05:07	17°  19'40			14420 Jan 15 18:50	30°  R 	
direct	14419 Feb 09 05:58	17°  06'25		morning rise	14420 Jan 19 05:54	28°  Z50'07	
asc. node	14419 Feb 13 06:29	18°  01'16		direct	14420 Jan 21 14:49	28°  Z35'08	
morning max el	14419 Feb 17 20:19	21°  19'19	18°42'53		14420 Jan 27 01:30	0° 	
	14419 Feb 24 12:07	0°  X		asc. node	14420 Jan 31 03:54	2°  58'20	
morning set	14419 Mar 05 23:37	17°  X14'43		morning max el	14420 Jan 31 15:37	3°  26'02	19°43'04
	14419 Mar 12 13:39	0°  Y			14420 Feb 17 06:19	0°  X	
				morning set	14420 Feb 18 03:25	1°  X46'13	
superior conj	14419 Mar 14 18:10	4°  Y08'34	0°26'16	superior conj	14420 Feb 26 01:28	17°  X43'10	0°53'54
minimum elong	14419 Mar 14 19:52	4°  Y16'33	0°26'01	minimum elong	14420 Feb 26 04:05	17°  X56'06	0°53'50
desc. node	14419 Mar 17 23:45	10°  Y07'19			14420 Mar 03 11:31	0°  Y	
max. Earth dist.	14419 Mar 22 00:15	17°  Y18'21	1.39780 AU	max. Earth dist.	14420 Mar 03 06:44	29°  X37'54	1.37515 AU
evening rise	14419 Mar 26 00:40	24°  Y12'13		desc. node	14420 Mar 03 20:16	0°  Y40'22	
	14419 Mar 29 12:43	0°  B		evening rise	14420 Mar 06 23:49	6°  Y21'47	
	14419 Apr 18 18:48	0°  II			14420 Mar 21 10:38	0°  B	
evening max el	14419 Apr 29 21:16	13°  II09'02	24°01'19	evening max el	14420 Apr 11 10:55	27°  B03'00	25°18'40
retrograde	14419 May 11 00:46	19°  II41'22			14420 Apr 14 17:16	0°  II	
asc. node	14419 May 12 03:02	19°  II36'05		retrograde	14420 Apr 23 14:35	4°  II05'24	
evening set	14419 May 16 09:53	17°  II24'51		asc. node	14420 Apr 28 00:22	2°  II43'41	
min. Earth dist.	14419 May 21 01:49	12°  II00'00	0.68719 AU	evening set	14420 Apr 29 11:12	1°  II39'01	
inferior conj	14419 May 21 20:36	10°  II56'09	2°34'42		14420 May 01 04:16	30°  R 	
minimum elong	14419 May 21 18:37	11°  II02'54	2°33'18	min. Earth dist.	14420 May 03 19:37	26°  B50'33	0.67966 AU
morning rise	14419 May 27 03:23	4°  II53'26		inferior conj	14420 May 05 03:05	25°  B08'23	2°01'57
direct	14419 May 31 04:24	3°  II20'40		minimum elong	14420 May 05 00:55	25°  B15'24	2°00'31
morning max el	14419 Jun 07 23:35	7°  II44'21	20°14'57	morning rise	14420 May 10 15:01	19°  B15'10	
desc. node	14419 Jun 14 01:09	14°  II48'22		direct	14420 May 14 04:28	18°  B02'21	
	14419 Jun 24 20:08	0°  S		morning max el	14420 May 21 03:54	21°  B50'51	19°13'01
morning set	14419 Jul 06 02:44	17°  S02'07			14420 May 27 22:11	0°  II	
	14419 Jul 14 09:46	0°  Q		desc. node	14420 May 30 22:07	4°  II13'12	
max. Earth dist.	14419 Jul 15 17:54	2°  Q07'53	1.44180 AU	greatest brilliancy	14420 Jun 02 23:55	8°  II43'54	-0.7m
				morning set	14420 Jun 14 06:38	25°  II54'09	
superior conj	14419 Jul 21 16:31	11°  Q44'44	-1°58'24		14420 Jun 16 22:22	0°  S	
minimum elong	14419 Jul 21 23:33	12°  Q13'35	1°58'44	max. Earth dist.	14420 Jun 27 10:21	16°  S20'20	1.45397 AU
	14419 Aug 01 12:51	0°  R					
evening rise	14419 Aug 03 13:13	3°  R28'34		superior conj	14420 Jun 30 14:47	21°  S21'27	-2°13'01
asc. node	14419 Aug 08 02:48	11°  R20'50		minimum elong	14420 Jun 30 16:58	21°  S30'02	2°14'00
evening max el	14419 Aug 20 16:44	29°  R50'04	18°03'05		14420 Jul 06 01:00	0°  Q	
	14419 Aug 20 20:48	0°  S		evening rise	14420 Jul 15 04:53	14°  Q53'38	
retrograde	14419 Aug 27 03:30	3°  S11'04			14420 Jul 24 11:18	0°  R	
evening set	14419 Aug 29 18:06	2°  S37'09		asc. node	14420 Jul 24 23:29	0°  R48'05	
	14419 Sep 02 13:51	30°  R 		evening max el	14420 Aug 03 07:07	13°  R23'43	18°17'19
inferior conj	14419 Sep 05 04:22	27°  R26'34	1°23'34	retrograde	14420 Aug 09 15:56	16°  R46'42	
minimum elong	14419 Sep 05 06:29	27°  R21'05	1°22'42	evening set	14420 Aug 12 15:10	15°  R58'29	
min. Earth dist.	14419 Sep 08 01:59	24°  R27'29	0.62208 AU	inferior conj	14420 Aug 18 13:16	10°  R31'03	2°14'35
desc. node	14419 Sep 09 22:15	22°  R44'03		minimum elong	14420 Aug 18 15:40	10°  R24'05	2°13'30
morning rise	14419 Sep 11 16:28	21°  R20'18		min. Earth dist.	14420 Aug 20 22:10	7°  R47'25	0.64343 AU
direct	14419 Sep 18 08:50	18°  R57'16		morning rise	14420 Aug 24 14:40	4°  R11'36	
morning max el	14419 Oct 02 11:22	26°  R56'30	27°57'33	desc. node	14420 Aug 26 19:48	2°  R43'33	
	14419 Oct 05 08:44	0°  S		direct	14420 Aug 31 04:27	1°  R35'59	
	14419 Oct 26 01:53	0°  M		morning max el	14420 Sep 13 21:30	9°  R34'15	27°30'14
asc. node	14419 Nov 04 04:50	17°  M08'47			14420 Sep 29 21:41	0°  S	
morning set	14419 Nov 05 11:04	19°  M42'14			14420 Oct 17 10:48	0°  M	
	14419 Nov 10 08:10	0°  X		morning set	14420 Oct 19 02:03	3°  M11'36	
max. Earth dist.	14419 Nov 10 19:57	1°  X03'53	1.31703 AU	asc. node	14420 Oct 21 01:32	7°  M08'59	
				max. Earth dist.	14420 Oct 23 17:16	12°  M36'35	1.32782 AU
superior conj	14419 Nov 12 22:50	5°  X42'22	1°14'22				
minimum elong	14419 Nov 12 20:36	5°  X30'06	1°14'58	superior conj	14420 Oct 27 04:13	19°  M56'22	0°54'50
evening rise	14419 Nov 19 16:43	20°  X32'22		minimum elong	14420 Oct 27 01:59	19°  M44'22	0°55'11
	14419 Nov 24 05:08	0°  Z			14420 Nov 31 19:41	0°  X	
desc. node	14419 Dec 06 19:10	21°  Z41'42		evening rise	14420 Nov 03 03:42	5°  X01'58	
	14419 Dec 13 14:05	0°  S			14420 Nov 16 09:08	0°  Z	
evening max el	14419 Dec 14 21:27	1°  S18'00	24°27'19	desc. node	14420 Nov 22 16:18	8°  Z29'56	
retrograde	14419 Dec 28 13:50	8°  S06'59		evening max el	14420 Nov 25 07:14	11°  Z16'49	22°44'38
evening set	14420 Jan 02 19:00	7°  S07'19					

retrograde	14420 Dec 08 07:46	17°  44'19		retrograde	14421 Nov 18 18:36	27°  19'25	
evening set	14420 Dec 12 05:28	17°  11'04		evening set	14421 Nov 21 09:58	27°  03'02	
min. Earth dist.	14420 Dec 19 15:45	13°  47'56	0.54774 AU	inferior conj	14421 Nov 30 06:49	23°  10'19	-5°30'18
inferior conj	14420 Dec 20 15:40	13°  14'03	-5°59'13	minimum elong	14421 Nov 29 22:40	23°  21'51	5°27'52
minimum elong	14420 Dec 20 15:51	13°  13'47	5°58'10	min. Earth dist.	14421 Nov 30 21:29	22°  49'34	0.54473 AU
morning rise	14420 Dec 29 03:34	9°  25'56		morning rise	14421 Dec 08 11:47	19°  19'16	
direct	14421 Jan 01 06:00	9°  03'50		direct	14421 Dec 12 13:09	18°  43'52	
morning max el	14421 Jan 12 20:25	14°  37'24	21°06'29	morning max el	14421 Dec 25 12:02	24°  59'31	22°49'00
asc. node	14421 Jan 17 01:14	19°  19'22			14421 Dec 30 01:40	0° 	
	14421 Jan 24 01:13	0° 		asc. node	14422 Jan 03 22:27	6°  46'44	
morning set	14421 Feb 01 12:06	16°  28'09			14422 Jan 16 09:27	0° 	
	14421 Feb 07 23:14	0° 		morning set	14422 Jan 16 23:23	1°  13'50	
superior conj	14421 Feb 08 20:00	1°  47'25	1°14'41	superior conj	14422 Jan 23 22:26	16°  11'56	1°28'44
minimum elong	14421 Feb 08 22:31	2°  00'24	1°14'58	minimum elong	14422 Jan 24 00:14	16°  21'35	1°29'22
max. Earth dist.	14421 Feb 13 16:23	11°  34'18	1.35399 AU	max. Earth dist.	14422 Jan 27 08:36	23°  25'12	1.33613 AU
evening rise	14421 Feb 17 16:17	19°  14'12			14422 Jan 30 14:07	0° 	
desc. node	14421 Feb 18 16:47	21°  07'59		evening rise	14422 Jan 31 22:35	2°  40'36	
	14421 Feb 23 15:55	0° 		desc. node	14422 Feb 05 13:20	11°  26'03	
	14421 Mar 15 12:46	0° 			14422 Feb 16 13:07	0° 	
evening max el	14421 Mar 25 00:35	10°  51'51	26°24'44	evening max el	14422 Mar 07 14:03	24°  07'27	27°12'12
retrograde	14421 Apr 06 23:17	18°  13'11			14422 Mar 14 16:04	0° 	
evening set	14421 Apr 13 06:27	15°  41'21		retrograde	14422 Mar 21 02:08	1°  56'48	
asc. node	14421 Apr 14 21:47	14°  11'33			14422 Mar 26 22:27	30°  08'00	
min. Earth dist.	14421 Apr 17 08:40	11°  28'02	0.66776 AU	evening set	14422 Mar 27 17:38	29°  05'28	
inferior conj	14421 Apr 19 04:50	9°  13'55	1°18'03	min. Earth dist.	14422 Mar 31 15:01	25°  04'57	0.65186 AU
minimum elong	14421 Apr 19 03:04	9°  19'18	1°16'52	asc. node	14422 Apr 01 19:13	24°  07'02	
morning rise	14421 Apr 25 00:39	3°  31'44		inferior conj	14422 Apr 02 23:29	23°  07'41	0°22'20
direct	14421 Apr 28 03:25	2°  37'11		minimum elong	14422 Apr 02 22:53	23°  09'24	0°21'48
morning max el	14421 May 04 15:01	6°  03'37	18°27'08	morning rise	14422 Apr 09 05:52	17°  03'23	
desc. node	14421 May 17 18:56	24°  03'27		direct	14422 Apr 11 23:04	16°  05'14	
	14421 May 21 13:54	0° 		morning max el	14422 Apr 18 06:53	20°  16'18	17°58'06
morning set	14421 May 25 04:08	5°  14'01			14422 Apr 25 19:13	0° 	
				desc. node	14422 May 04 15:39	14°  12'24	
superior conj	14421 Jun 09 23:47	0°  29'01	-2°08'18	morning set	14422 May 06 05:17	16°  04'06	
minimum elong	14421 Jun 09 18:15	0°  07'27	2°09'07		14422 May 14 07:50	0° 	
	14421 Jun 09 16:20	0° 		superior conj	14422 May 20 12:31	9°  15'27	-1°44'35
max. Earth dist.	14421 Jun 10 05:59	0°  53'15	1.45893 AU	minimum elong	14422 May 20 03:33	9°  17'56	1°44'42
evening rise	14421 Jun 25 19:44	25°  16'32		max. Earth dist.	14422 May 24 01:59	15°  12'47	1.45642 AU
	14421 Jun 28 19:43	0° 			14422 Jun 02 10:05	0° 	
greatest brilliancy	14421 Jul 04 20:18	9°  26'05	-0.8m	evening rise	14422 Jun 05 13:55	4°  51'48	
asc. node	14421 Jul 11 20:16	19°  05'13		greatest brilliancy	14422 Jun 19 09:03	25°  04'11	-0.6m
evening max el	14421 Jul 17 18:50	27°  07'53	18°49'08		14422 Jun 22 07:58	0° 	
	14421 Jul 21 12:28	0° 		asc. node	14422 Jun 28 17:06	8°  02'24	
retrograde	14421 Jul 24 10:42	0°  46'14		evening max el	14422 Jul 01 01:46	10°  05'03	19°37'27
	14421 Jul 27 06:42	30°  08'01		retrograde	14422 Jul 08 08:43	15°  02'59	
evening set	14421 Jul 27 18:55	29°  01'58		evening set	14422 Jul 12 02:30	13°  01'45	
inferior conj	14421 Aug 02 08:28	23°  09'43	2°47'38	inferior conj	14422 Jul 17 10:50	7°  04'18	3°05'39
minimum elong	14421 Aug 02 10:21	23°  05'48	2°46'36	minimum elong	14422 Jul 17 11:48	7°  03'02	3°04'41
min. Earth dist.	14421 Aug 04 03:10	21°  04'52	0.66156 AU	min. Earth dist.	14422 Jul 18 15:18	6°  01'31	0.67558 AU
morning rise	14421 Aug 08 00:55	17°  03'49		morning rise	14422 Jul 22 20:37	1°  02'13	
desc. node	14421 Aug 13 17:17	14°  05'07			14422 Jul 24 16:02	30°  08'00	
direct	14421 Aug 14 07:41	14°  05'56		direct	14422 Jul 28 17:26	28°  04'38	
morning max el	14421 Aug 27 08:55	22°  04'17	26°33'27	desc. node	14422 Jul 31 14:43	29°  01'14	
	14421 Sep 02 20:12	0° 			14422 Aug 02 04:29	0° 	
	14421 Sep 23 04:32	0° 		morning max el	14422 Aug 09 19:49	6°  02'46	25°16'18
morning set	14421 Oct 02 05:27	16°  07'56			14422 Aug 28 09:18	0° 	
max. Earth dist.	14421 Oct 06 04:54	23°  04'05	1.34388 AU	morning set	14422 Sep 14 17:28	28°  07'17	
asc. node	14421 Oct 07 22:10	27°  01'53			14422 Sep 15 15:10	0° 	
	14421 Oct 09 06:41	0° 		max. Earth dist.	14422 Sep 18 07:12	4°  05'05	1.36444 AU
superior conj	14421 Oct 11 03:14	3°  09'20	0°29'39	superior conj	14422 Sep 24 16:58	17°  01'25	-0°00'41
minimum elong	14421 Oct 11 01:42	3°  04'12	0°29'51	minimum elong	14422 Sep 24 16:59	17°  01'33	0°00'29
evening rise	14421 Oct 18 13:13	19°  02'54		behind sun begin	14422 Sep 24 10:36	16°  02'55	
	14421 Oct 23 17:57	0° 		behind sun end	14422 Sep 24 23:22	17°  01'46	
evening max el	14421 Nov 06 23:25	21°  07'53	21°08'09	asc. node	14422 Sep 24 18:43	17°  02'31	
desc. node	14421 Nov 09 13:32	23°  07'45	06				

	14422 Oct 01 00:18	0°♍		evening rise	14423 Sep 16 18:40	17°♊32'49	
evening rise	14422 Oct 02 19:05	3°♍38'13			14423 Sep 23 07:56	0°♍	
	14422 Oct 18 01:49	0°♊		evening max el	14423 Oct 03 01:01	14°♍05'10	18°53'02
evening max el	14422 Oct 20 05:14	2°♊21'23	19°49'38	retrograde	14423 Oct 11 15:27	18°♍24'40	
desc. node	14422 Oct 27 10:52	7°♊01'00		evening set	14423 Oct 13 12:39	18°♍13'03	
retrograde	14422 Oct 30 09:20	7°♊25'44		desc. node	14423 Oct 14 08:18	18°♍01'03	
evening set	14422 Nov 01 08:31	7°♊15'14		inferior conj	14423 Oct 21 18:51	13°♍54'15	-2°21'49
inferior conj	14422 Nov 10 03:59	3°♊14'24	-4°08'12	minimum elong	14423 Oct 21 12:56	14°♍04'47	2°18'51
minimum elong	14422 Nov 09 18:12	3°♊29'29	4°04'14	min. Earth dist.	14423 Oct 24 18:21	11°♍47'43	0.56600 AU
min. Earth dist.	14422 Nov 12 05:35	1°♊58'00	0.55124 AU	morning rise	14423 Oct 29 10:10	9°♍04'57	
	14422 Nov 15 18:16	30°♋♍		direct	14423 Nov 04 05:09	7°♍44'57	
morning rise	14422 Nov 18 02:22	29°♍00'19		morning max el	14423 Nov 18 09:21	15°♍03'34	26°16'00
direct	14422 Nov 23 02:28	28°♍05'08			14423 Nov 30 09:12	0°♊	
	14422 Nov 30 05:59	0°♊		asc. node	14423 Dec 08 16:36	13°♊59'28	
morning max el	14422 Dec 06 21:26	4°♊56'29	24°38'17	morning set	14423 Dec 16 22:07	0°♊33'11	
asc. node	14422 Dec 21 19:34	25°♊04'16			14423 Dec 16 15:56	0°♊	
	14422 Dec 24 13:34	0°♊					
morning set	14423 Jan 01 11:17	15°♊56'54		superior conj	14423 Dec 23 16:35	15°♊29'19	1°37'48
	14423 Jan 07 21:18	0°♋		minimum elong	14423 Dec 23 16:18	15°♊27'44	1°38'50
				max. Earth dist.	14423 Dec 24 13:58	17°♊28'15	1.31447 AU
superior conj	14423 Jan 08 06:01	0°♋47'53	1°36'20		14423 Dec 30 08:07	0°♋	
minimum elong	14423 Jan 08 06:49	0°♋52'15	1°37'16	evening rise	14423 Dec 30 16:05	0°♋41'56	
max. Earth dist.	14423 Jan 10 08:20	5°♋22'16	1.32278 AU	desc. node	14424 Jan 10 06:42	21°♋09'54	
evening rise	14423 Jan 15 15:25	16°♋32'00			14424 Jan 15 14:45	0°♋	
	14423 Jan 22 14:25	0°♋		evening max el	14424 Jan 31 10:20	20°♋10'23	27°23'57
desc. node	14423 Jan 23 09:57	1°♋28'44		retrograde	14424 Feb 14 09:34	27°♋29'52	
	14423 Feb 11 03:38	0°♋		evening set	14424 Feb 21 05:36	25°♋22'02	
evening max el	14423 Feb 18 02:02	7°♋37'41	27°34'00	min. Earth dist.	14424 Feb 25 00:39	22°♋32'24	0.61121 AU
retrograde	14423 Mar 03 22:01	15°♋05'24		inferior conj	14424 Feb 28 03:33	19°♋46'59	-2°04'52
evening set	14423 Mar 10 18:19	12°♋41'58		minimum elong	14424 Feb 28 08:02	19°♋37'02	2°02'47
min. Earth dist.	14423 Mar 14 12:50	9°♋30'06	0.63262 AU	asc. node	14424 Mar 05 14:08	15°♋12'01	
inferior conj	14423 Mar 17 08:10	6°♋41'30	-0°45'39	morning rise	14424 Mar 06 13:34	14°♋51'06	
minimum elong	14423 Mar 17 09:39	6°♋37'46	0°45'03	direct	14424 Mar 08 16:36	14°♋32'04	
asc. node	14423 Mar 19 16:40	4°♋25'24		morning max el	14424 Mar 15 16:56	18°♋03'43	17°52'48
morning rise	14423 Mar 24 03:32	1°♋27'28			14424 Mar 24 07:12	0°♋	
direct	14423 Mar 26 12:36	1°♋00'13		morning set	14424 Mar 31 07:58	12°♋26'02	
morning max el	14423 Apr 02 00:35	4°♋19'19	17°46'25	desc. node	14424 Apr 07 08:49	25°♋03'35	
morning set	14423 Apr 18 08:32	29°♋08'21			14424 Apr 10 04:34	0°♋	
	14423 Apr 18 20:31	0°♋					
desc. node	14423 Apr 21 12:16	4°♋33'53		superior conj	14424 Apr 11 02:20	1°♋34'03	-0°29'30
				minimum elong	14424 Apr 10 23:39	1°♋22'30	0°29'31
superior conj	14423 Apr 30 19:30	20°♋10'44	-1°08'49	max. Earth dist.	14424 Apr 18 10:55	13°♋55'24	1.43092 AU
minimum elong	14423 Apr 30 12:45	19°♋43'01	1°08'40	evening rise	14424 Apr 24 20:28	24°♋10'40	
	14423 May 06 21:25	0°♋			14424 Apr 28 14:26	0°♋	
max. Earth dist.	14423 May 06 20:08	29°♋54'51	1.44674 AU		14424 May 19 12:21	0°♋	
evening rise	14423 May 16 00:47	14°♋16'19		evening max el	14424 May 26 22:30	8°♋39'15	21°54'24
	14423 May 26 11:18	0°♋		asc. node	14424 Jun 01 11:06	13°♋02'04	
evening max el	14423 Jun 14 02:53	24°♋47'54	20°40'22	retrograde	14424 Jun 05 05:45	14°♋05'58	
asc. node	14423 Jun 15 14:03	26°♋11'00		evening set	14424 Jun 09 20:52	12°♋11'08	
retrograde	14423 Jun 22 07:41	29°♋31'20		inferior conj	14424 Jun 15 03:01	5°♋53'35	3°05'07
evening set	14423 Jun 26 11:45	27°♋52'58		minimum elong	14424 Jun 15 02:04	5°♋56'55	3°03'58
inferior conj	14423 Jul 01 17:45	21°♋45'40	3°10'59	min. Earth dist.	14424 Jun 15 04:22	5°♋48'53	0.68963 AU
minimum elong	14423 Jul 01 17:43	21°♋45'46	3°09'59		14424 Jun 19 21:41	30°♋♋	
min. Earth dist.	14423 Jul 02 08:24	20°♋55'07	0.68500 AU	morning rise	14424 Jun 20 07:05	29°♋38'51	
morning rise	14423 Jul 06 23:23	15°♋24'50		direct	14424 Jun 25 03:41	27°♋34'29	
direct	14423 Jul 12 08:31	13°♋03'10			14424 Jul 01 02:31	0°♋	
desc. node	14423 Jul 18 12:04	15°♋25'46		desc. node	14424 Jul 04 09:19	2°♋51'11	
morning max el	14423 Jul 23 06:14	19°♋34'18	23°48'37	morning max el	14424 Jul 04 18:23	3°♋13'41	22°19'40
	14423 Aug 01 02:50	0°♋			14424 Jul 25 03:30	0°♋	
	14423 Aug 21 12:39	0°♋		morning set	14424 Aug 07 02:02	20°♋02'34	
morning set	14423 Aug 27 09:40	9°♋43'50		max. Earth dist.	14424 Aug 12 05:40	28°♋31'55	1.41124 AU
max. Earth dist.	14423 Aug 31 05:08	16°♋19'26	1.38775 AU		14424 Aug 13 02:35	0°♋	
superior conj	14423 Sep 07 17:51	0°♋03'13	-0°34'55	superior conj	14424 Aug 20 01:36	12°♋04'59	-1°10'34
minimum elong	14423 Sep 07 20:21	0°♋14'59	0°34'34	minimum elong	14424 Aug 20 07:03	12°♋29'17	1°10'11
	14423 Sep 07 17:10	0°♋		asc. node	14424 Aug 28 11:48	27°♋30'56	
asc. node	14423 Sep 11 15:16	7°♋29'51			14424 Aug 29 19:42	0°♋	

evening rise	14424 Aug 30 08:34	1°♄00'13		minimum elong	14425 Aug 01 19:20	23°♄42'05	1°43'15
evening max el	14424 Sep 15 07:07	26°♄31'36	18°17'56		14425 Aug 05 11:47	0°♄	
	14424 Sep 20 15:18	0°♄		evening rise	14425 Aug 13 08:34	13°♄50'05	
retrograde	14424 Sep 22 17:03	0°♄17'44		asc. node	14425 Aug 15 08:25	17°♄22'51	
evening set	14424 Sep 24 19:16	0°♄00'24			14425 Aug 22 16:55	0°♄	
	14424 Sep 24 19:51	30°♄		evening max el	14425 Aug 29 19:20	9°♄31'27	18°02'57
desc. node	14424 Sep 30 05:48	27°♄00'17		retrograde	14425 Sep 05 11:43	12°♄57'53	
inferior conj	14424 Oct 02 07:27	25°♄20'15	-0°39'19	evening set	14425 Sep 07 21:26	12°♄31'04	
minimum elong	14424 Oct 02 06:00	25°♄23'16	0°38'24	inferior conj	14425 Sep 14 16:19	7°♄30'50	0°44'52
min. Earth dist.	14424 Oct 05 14:13	22°♄37'23	0.58628 AU	minimum elong	14425 Sep 14 17:39	7°♄27'36	0°44'23
morning rise	14424 Oct 09 13:17	19°♄54'32		desc. node	14425 Sep 17 03:19	5°♄08'39	
direct	14424 Oct 15 21:25	18°♄07'45		min. Earth dist.	14425 Sep 17 19:17	4°♄31'30	0.60900 AU
morning max el	14424 Oct 30 04:46	25°♄47'31	27°25'25	morning rise	14425 Sep 21 10:57	1°♄36'05	
	14424 Nov 03 03:27	0°♄			14425 Sep 24 15:11	30°♄	
	14424 Nov 22 19:17	0°♄		direct	14425 Sep 28 01:57	29°♄24'36	
asc. node	14424 Nov 24 13:31	3°♄21'43			14425 Oct 01 15:56	0°♄	
morning set	14424 Nov 30 06:06	14°♄57'35		morning max el	14425 Oct 12 07:55	7°♄19'39	27°57'05
					14425 Oct 29 13:53	0°♄	
superior conj	14424 Dec 07 04:10	0°♄10'00	1°33'18	asc. node	14425 Nov 11 10:21	23°♄03'30	
minimum elong	14424 Dec 07 02:54	0°♄02'56	1°34'16	morning set	14425 Nov 14 09:21	29°♄05'25	
max. Earth dist.	14424 Dec 06 22:12	29°♄36'40	1.31128 AU		14425 Nov 14 19:49	0°♄	
	14424 Dec 07 02:23	0°♄		max. Earth dist.	14425 Nov 20 05:10	11°♄37'53	1.31336 AU
evening rise	14424 Dec 13 22:10	15°♄03'50					
	14424 Dec 21 07:27	0°♄		superior conj	14425 Nov 21 14:54	14°♄44'49	1°22'58
desc. node	14424 Dec 27 03:33	10°♄20'44		minimum elong	14425 Nov 21 12:55	14°♄33'47	1°23'43
	14425 Jan 10 14:19	0°♄		evening rise	14425 Nov 28 07:37	29°♄32'34	
evening max el	14425 Jan 12 12:04	1°♄53'54	26°39'02		14425 Nov 28 12:43	0°♄	
retrograde	14425 Jan 26 11:18	9°♄02'56		desc. node	14425 Dec 14 00:31	28°♄49'38	
evening set	14425 Feb 02 00:00	7°♄17'43			14425 Dec 14 19:18	0°♄	
min. Earth dist.	14425 Feb 06 01:48	4°♄40'12	0.58922 AU	evening max el	14425 Dec 25 05:14	12°♄44'09	25°22'01
inferior conj	14425 Feb 09 05:57	2°♄14'06	-3°30'46	retrograde	14426 Jan 08 01:47	19°♄42'12	
minimum elong	14425 Feb 09 13:39	1°♄59'18	3°27'31	evening set	14426 Jan 13 21:32	18°♄25'04	
	14425 Feb 12 07:24	30°♄		min. Earth dist.	14426 Jan 18 17:31	15°♄44'27	0.56898 AU
morning rise	14425 Feb 17 06:27	27°♄39'23		inferior conj	14426 Jan 21 12:13	13°♄53'25	-4°52'08
direct	14425 Feb 19 06:45	27°♄24'59		minimum elong	14426 Jan 21 21:12	13°♄38'25	4°49'03
asc. node	14425 Feb 20 11:35	27°♄30'19		morning rise	14426 Jan 29 23:29	9°♄40'49	
	14425 Feb 25 16:43	0°♄		direct	14426 Feb 01 02:39	9°♄27'25	
morning max el	14425 Feb 27 04:22	1°♄19'33	18°18'39	asc. node	14426 Feb 07 09:02	11°♄31'48	
morning set	14425 Mar 14 21:52	26°♄22'51		morning max el	14426 Feb 10 06:48	13°♄55'09	19°05'47
	14425 Mar 16 19:38	0°♄			14426 Feb 21 07:30	0°♄	
				morning set	14426 Feb 26 21:36	10°♄44'34	
superior conj	14425 Mar 24 07:29	13°♄58'42	0°07'25				
minimum elong	14425 Mar 24 08:02	14°♄01'10	0°07'11	superior conj	14426 Mar 07 06:34	27°♄11'42	0°38'48
behind sun begin	14425 Mar 24 01:24	13°♄30'59		minimum elong	14426 Mar 07 08:49	27°♄22'27	0°38'36
behind sun end	14425 Mar 24 14:40	14°♄31'17			14426 Mar 08 17:54	0°♄	
desc. node	14425 Mar 25 05:22	15°♄37'47		desc. node	14426 Mar 12 01:52	6°♄12'21	
max. Earth dist.	14425 Mar 31 21:21	27°♄19'15	1.41058 AU	max. Earth dist.	14426 Mar 14 03:54	9°♄58'58	1.38802 AU
	14425 Apr 02 11:23	0°♄		evening rise	14426 Mar 17 22:37	16°♄37'15	
evening rise	14425 Apr 05 10:58	4°♄56'41			14426 Mar 26 01:05	0°♄	
	14425 Apr 21 19:15	0°♄			14426 Apr 16 08:06	0°♄	
evening max el	14425 May 09 14:06	22°♄31'42	23°14'40	evening max el	14426 Apr 22 03:43	6°♄24'45	24°35'06
asc. node	14425 May 19 08:17	28°♄39'24		retrograde	14426 May 03 18:06	13°♄11'52	
retrograde	14425 May 20 01:39	28°♄41'45		asc. node	14426 May 06 05:34	12°♄45'11	
evening set	14425 May 25 04:14	26°♄32'09		evening set	14426 May 09 08:14	10°♄50'23	
min. Earth dist.	14425 May 30 01:09	20°♄46'33	0.68943 AU	min. Earth dist.	14426 May 13 20:39	5°♄41'15	0.68449 AU
inferior conj	14425 May 30 12:43	20°♄06'34	2°48'47	inferior conj	14426 May 14 20:55	4°♄20'07	2°22'07
minimum elong	14425 May 30 11:02	20°♄12'24	2°47'28	minimum elong	14426 May 14 18:49	4°♄27'12	2°20'42
morning rise	14425 Jun 04 17:47	13°♄59'20			14426 May 18 09:27	30°♄	
direct	14425 Jun 09 01:47	12°♄14'56		morning rise	14426 May 20 05:35	28°♄21'25	
morning max el	14425 Jun 17 11:28	17°♄03'52	20°57'16	direct	14426 May 24 01:28	26°♄57'29	
desc. node	14425 Jun 21 06:27	21°♄14'53			14426 May 30 07:40	0°♄	
	14425 Jun 27 23:51	0°♄		morning max el	14426 May 31 11:31	1°♄04'54	19°46'47
morning set	14425 Jul 17 18:47	29°♄21'10		desc. node	14426 Jun 08 03:27	10°♄20'39	
	14425 Jul 18 04:44	0°♄		greatest brilliancy	14426 Jun 13 13:18	18°♄00'56	-0.6m
max. Earth dist.	14425 Jul 25 12:30	11°♄38'42	1.43202 AU		14426 Jun 21 14:02	0°♄	
				morning set	14426 Jun 26 21:36	8°♄06'41	
superior conj	14425 Aug 01 11:55	23°♄10'46	-1°43'18	max. Earth dist.	14426 Jul 08 01:17	25°♄28'56	1.44776 AU

	14426 Jul 10 21:27	0°♎		superior conj	14427 Jun 22 13:25	12°♊36'30	-2°13'33
				minimum elong	14427 Jun 22 12:15	12°♊31'57	2°14'35
superior conj	14426 Jul 12 22:32	3°♎16'53	-2°06'41		14427 Jul 03 13:11	0°♎	
minimum elong	14426 Jul 13 04:10	3°♎39'36	2°07'20	evening rise	14427 Jul 07 18:28	6°♎46'42	
evening rise	14426 Jul 26 13:25	25°♎49'06		asc. node	14427 Jul 20 01:46	26°♎18'38	
	14426 Jul 29 00:46	0°♎			14427 Jul 22 14:34	0°♎	
asc. node	14426 Aug 02 05:04	7°♎00'42		evening max el	14427 Jul 27 23:27	6°♎34'12	18°28'50
evening max el	14426 Aug 13 09:52	22°♎55'11	18°06'55	retrograde	14427 Aug 03 10:16	10°♎02'02	
retrograde	14426 Aug 19 18:51	26°♎15'41		evening set	14427 Aug 06 13:14	9°♎07'16	
evening set	14426 Aug 22 12:58	25°♎36'09		inferior conj	14427 Aug 12 07:18	3°♎33'38	2°30'34
inferior conj	14426 Aug 28 17:37	20°♎18'14	1°47'33	minimum elong	14427 Aug 12 09:33	3°♎26'52	2°29'30
minimum elong	14426 Aug 28 20:00	20°♎11'45	1°46'33	min. Earth dist.	14427 Aug 14 10:23	1°♎00'55	0.65159 AU
min. Earth dist.	14426 Aug 31 10:14	17°♎23'21	0.63144 AU		14427 Aug 15 07:43	30°♎	
morning rise	14426 Sep 04 00:59	14°♎04'57		morning rise	14427 Aug 18 04:38	27°♎11'05	
desc. node	14426 Sep 04 00:50	14°♎05'13		desc. node	14427 Aug 21 22:20	24°♎59'55	
direct	14426 Sep 10 16:48	11°♎35'15		direct	14427 Aug 24 16:03	24°♎32'32	
morning max el	14426 Sep 24 16:19	19°♎36'28	27°50'01		14427 Sep 04 13:04	0°♎	
	14426 Oct 03 13:23	0°♎		morning max el	14427 Sep 07 03:04	2°♎27'04	27°09'07
	14426 Oct 22 13:24	0°♎			14427 Sep 27 19:35	0°♎	
morning set	14426 Oct 29 05:37	12°♎51'21		morning set	14427 Oct 12 16:04	26°♎07'45	
asc. node	14426 Oct 29 07:07	12°♎58'52			14427 Oct 14 15:24	0°♎	
max. Earth dist.	14426 Nov 03 06:54	23°♎22'38	1.32090 AU	asc. node	14427 Oct 16 03:45	3°♎02'10	
				max. Earth dist.	14427 Oct 16 24:00	4°♎45'00	1.33399 AU
superior conj	14426 Nov 05 22:54	29°♎08'41	1°06'48				
minimum elong	14426 Nov 05 20:35	28°♎56'08	1°07'17	superior conj	14427 Oct 21 01:53	13°♎14'51	0°44'51
	14426 Nov 06 08:17	0°♎		minimum elong	14427 Oct 20 23:51	13°♎04'04	0°45'06
evening rise	14426 Nov 12 18:36	14°♎03'37		evening rise	14427 Oct 28 05:11	28°♎31'21	
	14426 Nov 20 15:19	0°♎			14427 Oct 28 21:55	0°♎	
desc. node	14426 Nov 30 21:35	16°♎21'04			14427 Nov 15 10:31	0°♎	
evening max el	14426 Dec 06 15:51	22°♎54'17	23°43'58	desc. node	14427 Nov 17 18:46	2°♎33'13	
retrograde	14426 Dec 20 03:29	29°♎36'22		evening max el	14427 Nov 18 03:20	2°♎54'29	22°02'02
evening set	14426 Dec 24 19:44	28°♎48'49		retrograde	14427 Nov 30 17:08	9°♎08'02	
min. Earth dist.	14426 Dec 31 02:51	25°♎46'24	0.55340 AU	evening set	14427 Dec 04 00:45	8°♎43'37	
inferior conj	14427 Jan 01 21:58	24°♎42'31	-5°48'17	inferior conj	14427 Dec 12 16:30	4°♎50'28	-5°54'31
minimum elong	14427 Jan 02 03:03	24°♎35'00	5°46'45	minimum elong	14427 Dec 12 12:41	4°♎55'48	5°53'12
morning rise	14427 Jan 10 12:04	20°♎47'57		min. Earth dist.	14427 Dec 12 08:54	5°♎01'06	0.54533 AU
direct	14427 Jan 13 03:02	20°♎30'51		morning rise	14427 Dec 21 01:34	1°♎03'11	
morning max el	14427 Jan 23 20:19	25°♎40'01	20°15'49	direct	14427 Dec 24 13:36	0°♎36'02	
asc. node	14427 Jan 25 06:24	27°♎07'16		morning max el	14428 Jan 05 18:58	6°♎28'35	21°48'08
	14427 Jan 27 16:35	0°♎		asc. node	14428 Jan 12 03:41	13°♎58'32	
morning set	14427 Feb 11 03:47	25°♎21'37			14428 Jan 21 14:51	0°♎	
	14427 Feb 13 09:56	0°♎		morning set	14428 Jan 26 13:49	10°♎05'34	
superior conj	14427 Feb 18 19:08	11°♎00'41	1°03'33	superior conj	14428 Feb 02 17:22	25°♎14'14	1°21'27
minimum elong	14427 Feb 18 21:49	11°♎14'09	1°03'36	minimum elong	14428 Feb 02 19:39	25°♎26'09	1°21'52
max. Earth dist.	14427 Feb 24 10:43	22°♎04'42	1.36580 AU		14428 Feb 05 00:23	0°♎	
desc. node	14427 Feb 26 22:23	26°♎43'58		max. Earth dist.	14428 Feb 06 22:49	3°♎56'20	1.34596 AU
evening rise	14427 Feb 28 05:36	29°♎06'44		evening rise	14428 Feb 11 04:24	12°♎14'46	
	14427 Feb 28 17:22	0°♎		desc. node	14428 Feb 13 18:56	17°♎08'04	
	14427 Mar 19 07:41	0°♎			14428 Feb 21 03:17	0°♎	
evening max el	14427 Apr 04 17:14	20°♎17'05	25°48'35		14428 Mar 13 10:43	0°♎	
retrograde	14427 Apr 17 06:03	27°♎29'42		evening max el	14428 Mar 17 07:07	4°♎02'01	26°47'42
evening set	14427 Apr 23 07:11	25°♎00'25		retrograde	14428 Mar 30 12:19	11°♎27'42	
asc. node	14427 Apr 23 02:54	25°♎09'14		evening set	14428 Apr 05 23:14	8°♎55'37	
min. Earth dist.	14427 Apr 27 12:47	20°♎26'53	0.67508 AU	asc. node	14428 Apr 09 00:18	6°♎00'58	
inferior conj	14427 Apr 29 01:39	18°♎30'07	1°44'44	min. Earth dist.	14428 Apr 09 23:20	4°♎56'19	0.66144 AU
minimum elong	14427 Apr 28 23:35	18°♎36'42	1°43'22	inferior conj	14428 Apr 12 00:42	2°♎31'24	0°55'56
morning rise	14427 May 04 16:36	12°♎41'14		minimum elong	14428 Apr 11 23:19	2°♎35'29	0°54'57
direct	14427 May 08 01:18	11°♎36'34			14428 Apr 14 06:15	30°♎	
morning max el	14427 May 14 18:52	15°♎14'30	18°51'24	morning rise	14428 Apr 18 00:39	26°♎54'07	
desc. node	14427 May 26 00:21	29°♎57'10		direct	14428 Apr 20 23:13	26°♎06'25	
	14427 May 26 01:06	0°♎		morning max el	14428 Apr 27 08:13	29°♎27'29	18°12'38
greatest brilliancy	14427 May 28 10:26	3°♎36'13	-0.8m		14428 Apr 27 21:12	0°♎	
morning set	14427 Jun 06 06:43	17°♎14'59		desc. node	14428 May 11 21:08	19°♎56'05	
	14427 Jun 14 11:32	0°♎		morning set	14428 May 16 15:37	27°♎34'35	
max. Earth dist.	14427 Jun 20 18:45	9°♎49'32	1.45696 AU		14428 May 18 03:55	0°♎	



superior conj	14428 May 31 21:47	21° $\Pi$ 45'23	-2°00'16		14429 May 10 18:53	0° $\Pi$	
minimum elong	14428 May 31 13:58	21° $\Pi$ 14'49	2°00'47				
max. Earth dist.	14428 Jun 02 14:56	24° $\Pi$ 26'10	1.45878 AU	superior conj	14429 May 11 16:54	1° $\Pi$ 28'23	-1°30'21
	14428 Jun 06 04:35	0° $\mathfrak{S}$		minimum elong	14429 May 11 08:22	0° $\Pi$ 54'11	1°30'16
evening rise	14428 Jun 16 23:24	16° $\mathfrak{S}$ 45'57		max. Earth dist.	14429 May 16 10:58	9° $\Pi$ 01'29	1.45314 AU
	14428 Jun 25 12:34	0° $\Omega$		evening rise	14429 May 27 12:30	26° $\Pi$ 11'23	
greatest brilliancy	14428 Jun 28 05:14	4° $\Omega$ 06'18	-0.7m		14429 May 30 00:24	0° $\mathfrak{S}$	
asc. node	14428 Jul 05 22:34	15° $\Omega$ 09'40		greatest brilliancy	14429 Jun 11 10:36	18° $\mathfrak{S}$ 33'02	-0.6m
evening max el	14428 Jul 10 09:27	20° $\Omega$ 21'39	19°07'51		14429 Jun 19 20:32	0° $\Omega$	
retrograde	14428 Jul 17 06:38	24° $\Omega$ 09'54		asc. node	14429 Jun 22 19:27	3° $\Omega$ 23'51	
evening set	14428 Jul 20 18:55	22° $\Omega$ 58'22		evening max el	14429 Jun 23 13:58	4° $\Omega$ 11'30	20°02'36
inferior conj	14428 Jul 26 05:53	17° $\Omega$ 10'29	2°56'56	retrograde	14429 Jul 01 05:18	8° $\Omega$ 32'11	
minimum elong	14428 Jul 26 07:24	17° $\Omega$ 05'33	2°55'56	evening set	14429 Jul 05 03:28	7° $\Omega$ 03'24	
min. Earth dist.	14428 Jul 27 18:30	15° $\Omega$ 12'29	0.66807 AU	inferior conj	14429 Jul 10 10:27	1° $\Omega$ 02'35	3°09'23
morning rise	14428 Jul 31 19:14	10° $\Omega$ 45'23		minimum elong	14429 Jul 10 11:00	1° $\Omega$ 00'42	3°08'23
direct	14428 Aug 06 22:11	8° $\Omega$ 07'31			14429 Jul 11 04:54	30° $\mathfrak{R}$ $\mathfrak{S}$	
desc. node	14428 Aug 07 19:47	8° $\Omega$ 10'34		min. Earth dist.	14429 Jul 11 08:53	29° $\mathfrak{S}$ 46'33	0.68015 AU
morning max el	14428 Aug 19 14:12	15° $\Omega$ 40'43	26°02'37	morning rise	14429 Jul 15 18:11	24° $\mathfrak{S}$ 39'20	
	14428 Aug 31 09:42	0° $\mathfrak{M}$		direct	14429 Jul 21 10:08	22° $\mathfrak{S}$ 10'11	
	14428 Sep 19 15:56	0° $\underline{\mathfrak{L}}$		desc. node	14429 Jul 25 17:11	23° $\mathfrak{S}$ 19'57	
morning set	14428 Sep 24 13:25	8° $\underline{\mathfrak{L}}$ 47'22		morning max el	14429 Aug 02 00:50	29° $\mathfrak{S}$ 07'34	24°39'51
max. Earth dist.	14428 Sep 28 07:23	15° $\underline{\mathfrak{L}}$ 52'04	1.35219 AU		14429 Aug 02 21:10	0° $\Omega$	
asc. node	14428 Oct 02 00:21	23° $\underline{\mathfrak{L}}$ 09'45			14429 Aug 25 04:27	0° $\mathfrak{M}$	
				morning set	14429 Sep 06 17:32	20° $\mathfrak{M}$ 40'00	
superior conj	14428 Oct 03 21:22	26° $\underline{\mathfrak{L}}$ 57'19	0°17'24	max. Earth dist.	14429 Sep 10 07:28	27° $\mathfrak{M}$ 03'31	1.37418 AU
minimum elong	14428 Oct 03 20:22	26° $\underline{\mathfrak{L}}$ 52'17	0°17'34		14429 Sep 11 21:58	0° $\underline{\mathfrak{L}}$	
	14428 Oct 05 09:01	0° $\mathfrak{M}$					
evening rise	14428 Oct 11 13:26	12° $\mathfrak{M}$ 51'22		superior conj	14429 Sep 17 06:05	10° $\underline{\mathfrak{L}}$ 07'32	-0°14'50
	14428 Oct 20 09:22	0° $\mathfrak{J}$		minimum elong	14429 Sep 17 07:03	10° $\underline{\mathfrak{L}}$ 12'16	0°14'34
evening max el	14428 Oct 30 00:56	13° $\mathfrak{J}$ 21'33	20°32'10	behind sun begin	14429 Sep 17 04:09	9° $\underline{\mathfrak{L}}$ 58'09	
desc. node	14428 Nov 03 16:01	17° $\mathfrak{J}$ 01'00		behind sun end	14429 Sep 17 09:58	10° $\underline{\mathfrak{L}}$ 26'25	
retrograde	14428 Nov 10 03:37	18° $\mathfrak{J}$ 53'07		asc. node	14429 Sep 18 20:54	13° $\underline{\mathfrak{L}}$ 17'24	
evening set	14428 Nov 12 10:22	18° $\mathfrak{J}$ 40'12		evening rise	14429 Sep 25 16:58	26° $\underline{\mathfrak{L}}$ 56'59	
inferior conj	14428 Nov 21 08:22	14° $\mathfrak{J}$ 45'29	-5°00'33		14429 Sep 27 05:40	0° $\mathfrak{M}$	
minimum elong	14428 Nov 20 22:33	14° $\mathfrak{J}$ 59'43	4°57'12	evening max el	14429 Oct 12 12:49	24° $\mathfrak{M}$ 35'38	19°22'48
min. Earth dist.	14428 Nov 22 14:59	14° $\mathfrak{J}$ 01'05	0.54647 AU	desc. node	14429 Oct 21 13:22	29° $\mathfrak{M}$ 19'51	
morning rise	14428 Nov 29 10:30	10° $\mathfrak{J}$ 47'15		retrograde	14429 Oct 22 00:12	29° $\mathfrak{M}$ 20'28	
direct	14428 Dec 03 22:09	10° $\mathfrak{J}$ 04'02		evening set	14429 Oct 23 21:13	29° $\mathfrak{M}$ 10'07	
morning max el	14428 Dec 17 06:36	16° $\mathfrak{J}$ 35'01	23°35'34	inferior conj	14429 Nov 01 12:02	25° $\mathfrak{M}$ 02'00	-3°24'09
	14428 Dec 27 21:36	0° $\mathfrak{Z}$		minimum elong	14429 Nov 01 03:32	25° $\mathfrak{M}$ 15'53	3°20'19
asc. node	14428 Dec 29 00:51	1° $\mathfrak{Z}$ 48'49		min. Earth dist.	14429 Nov 04 00:34	23° $\mathfrak{M}$ 23'24	0.55663 AU
morning set	14429 Jan 10 01:36	24° $\mathfrak{Z}$ 50'40		morning rise	14429 Nov 09 07:38	20° $\mathfrak{M}$ 33'48	
	14429 Jan 12 10:57	0° $\approx$		direct	14429 Nov 14 16:06	19° $\mathfrak{M}$ 28'56	
				morning max el	14429 Nov 28 16:17	26° $\mathfrak{M}$ 32'20	25°22'28
superior conj	14429 Jan 16 22:17	9° $\approx$ 44'03	1°32'43		14429 Dec 02 00:00	0° $\mathfrak{J}$	
minimum elong	14429 Jan 16 23:41	9° $\approx$ 51'38	1°33'30	asc. node	14429 Dec 15 21:57	20° $\mathfrak{J}$ 23'40	
max. Earth dist.	14429 Jan 19 18:35	15° $\approx$ 50'04	1.32996 AU		14429 Dec 20 23:26	0° $\mathfrak{Z}$	
evening rise	14429 Jan 24 15:34	25° $\approx$ 52'31		morning set	14429 Dec 25 13:18	9° $\mathfrak{Z}$ 31'50	
	14429 Jan 26 17:54	0° $\mathfrak{H}$					
desc. node	14429 Jan 30 15:32	7° $\mathfrak{H}$ 20'10		superior conj	14430 Jan 01 07:25	24° $\mathfrak{Z}$ 23'16	1°37'41
	14429 Feb 13 13:02	0° $\mathfrak{Y}$		minimum elong	14430 Jan 01 07:45	24° $\mathfrak{Z}$ 25'08	1°38'41
evening max el	14429 Feb 27 20:19	17° $\mathfrak{Y}$ 28'32	27°24'59	max. Earth dist.	14430 Jan 02 21:20	27° $\mathfrak{Z}$ 52'09	1.31862 AU
retrograde	14429 Mar 13 12:04	24° $\mathfrak{Y}$ 57'13			14430 Jan 03 20:42	0° $\approx$	
evening set	14429 Mar 20 06:13	22° $\mathfrak{Y}$ 28'29		evening rise	14430 Jan 08 12:04	9° $\approx$ 52'34	
min. Earth dist.	14429 Mar 24 02:12	19° $\mathfrak{Y}$ 00'47	0.64407 AU	desc. node	14430 Jan 17 12:13	27° $\approx$ 14'46	
inferior conj	14429 Mar 26 15:29	16° $\mathfrak{Y}$ 17'23	-0°05'00		14430 Jan 19 01:48	0° $\mathfrak{H}$	
minimum elong	14429 Mar 26 15:39	16° $\mathfrak{Y}$ 16'58	0°05'07		14430 Feb 09 20:55	0° $\mathfrak{Y}$	
transit middle	14429 Mar 26 15:39	16° $\mathfrak{Y}$ 16'58	0°05'07	evening max el	14430 Feb 10 06:58	0° $\mathfrak{Y}$ 24'14	27°33'47
transit begin	14429 Mar 26 12:43	16° $\mathfrak{Y}$ 24'49		retrograde	14430 Feb 24 04:31	7° $\mathfrak{Y}$ 49'02	
transit end	14429 Mar 26 18:34	16° $\mathfrak{Y}$ 09'09		evening set	14430 Mar 03 01:39	5° $\mathfrak{Y}$ 30'57	
asc. node	14429 Mar 26 21:44	16° $\mathfrak{Y}$ 00'41		min. Earth dist.	14430 Mar 06 19:44	2° $\mathfrak{Y}$ 29'54	0.62373 AU
morning rise	14429 Apr 02 03:06	10° $\mathfrak{Y}$ 54'10			14430 Mar 09 10:53	30° $\mathfrak{R}$ $\mathfrak{H}$	
direct	14429 Apr 04 16:47	10° $\mathfrak{Y}$ 20'21		inferior conj	14430 Mar 09 18:59	29° $\mathfrak{H}$ 40'35	-1°17'59
morning max el	14429 Apr 11 01:11	13° $\mathfrak{Y}$ 36'37	17°50'59	minimum elong	14430 Mar 09 21:39	29° $\mathfrak{H}$ 34'14	1°16'47
	14429 Apr 22 15:26	0° $\mathfrak{B}$		asc. node	14430 Mar 13 19:12	26° $\mathfrak{H}$ 12'48	
morning set	14429 Apr 28 04:29	9° $\mathfrak{B}$ 15'00		morning rise	14430 Mar 16 20:30	24° $\mathfrak{H}$ 34'12	
desc. node	14429 Apr 28 17:49	10° $\mathfrak{B}$ 10'50		direct	14430 Mar 19 02:45	24° $\mathfrak{H}$ 10'52	

morning max el	14430 Mar 25 18:51	27° $\text{X}$ 33'41	17°46'55	morning max el	14431 Mar 09 09:40	11° $\text{X}$ 07'37	18°01'19
	14430 Mar 27 23:52	0° $\text{Y}$			14431 Mar 21 21:35	0° $\text{Y}$	
morning set	14430 Apr 10 17:08	22° $\text{Y}$ 02'51		morning set	14431 Mar 24 23:22	5° $\text{Y}$ 38'41	
	14430 Apr 15 06:01	0° $\text{Z}$		desc. node	14431 Apr 02 11:00	21° $\text{Y}$ 08'25	
desc. node	14430 Apr 15 14:26	0° $\text{Z}$ 36'35					
superior conj	14430 Apr 22 10:02	12° $\text{Z}$ 14'22	-0°52'10	superior conj	14431 Apr 04 02:50	24° $\text{Y}$ 05'03	-0°13'21
minimum elong	14430 Apr 22 05:00	11° $\text{Z}$ 53'18	0°52'03	minimum elong	14431 Apr 04 01:41	24° $\text{Y}$ 00'01	0°13'28
max. Earth dist.	14430 Apr 29 04:07	23° $\text{Z}$ 18'46	1.44067 AU	behind sun begin	14431 Apr 03 21:24	23° $\text{Y}$ 41'07	
	14430 May 03 09:03	0° $\text{II}$		behind sun end	14431 Apr 04 05:58	24° $\text{Y}$ 18'54	
evening rise	14430 May 07 01:27	5° $\text{II}$ 44'34			14431 Apr 07 12:26	0° $\text{Z}$	
	14430 May 23 08:28	0° $\text{S}$		max. Earth dist.	14431 Apr 11 16:30	7° $\text{Z}$ 02'29	1.42269 AU
evening max el	14430 Jun 06 12:31	18° $\text{S}$ 01'53	21°10'38	evening rise	14431 Apr 17 04:22	15° $\text{Z}$ 59'06	
asc. node	14430 Jun 09 16:26	20° $\text{S}$ 49'24			14431 Apr 26 05:46	0° $\text{II}$	
retrograde	14430 Jun 15 04:13	23° $\text{S}$ 03'44			14431 May 18 10:52	0° $\text{S}$	
evening set	14430 Jun 19 12:53	21° $\text{S}$ 18'08		evening max el	14431 May 20 06:06	1° $\text{S}$ 53'02	22°28'05
inferior conj	14430 Jun 24 18:39	15° $\text{S}$ 05'57	3°09'49	asc. node	14431 May 27 13:33	7° $\text{S}$ 11'01	
minimum elong	14430 Jun 24 18:12	15° $\text{S}$ 07'28	3°08'45	retrograde	14431 May 30 01:38	7° $\text{S}$ 39'08	
min. Earth dist.	14430 Jun 25 03:31	14° $\text{S}$ 35'04	0.68755 AU	evening set	14431 Jun 03 21:28	5° $\text{S}$ 37'55	
morning rise	14430 Jun 29 23:18	8° $\text{S}$ 47'23			14431 Jun 08 15:52	30° $\text{R}$ $\text{II}$	
direct	14430 Jul 05 03:01	6° $\text{S}$ 32'50		inferior conj	14431 Jun 09 04:22	29° $\text{II}$ 16'29	2°59'27
desc. node	14430 Jul 12 14:30	10° $\text{S}$ 02'33		minimum elong	14431 Jun 09 03:04	29° $\text{II}$ 21'01	2°58'14
morning max el	14430 Jul 15 11:51	12° $\text{S}$ 42'44	23°10'26	min. Earth dist.	14431 Jun 09 00:14	29° $\text{II}$ 30'55	0.69013 AU
	14430 Jul 29 09:17	0° $\text{Q}$		morning rise	14431 Jun 14 08:31	23° $\text{II}$ 04'31	
	14430 Aug 18 00:56	0° $\text{P}$		direct	14431 Jun 18 23:40	21° $\text{II}$ 08'24	
morning set	14430 Aug 18 23:58	1° $\text{P}$ 35'19		morning max el	14431 Jun 28 01:42	26° $\text{II}$ 26'05	21°43'20
max. Earth dist.	14430 Aug 23 05:42	8° $\text{P}$ 45'47	1.39787 AU	desc. node	14431 Jun 29 11:43	27° $\text{II}$ 54'38	
					14431 Jul 01 08:20	0° $\text{S}$	
superior conj	14430 Aug 31 00:10	22° $\text{P}$ 36'35	-0°50'05		14431 Jul 22 21:10	0° $\text{Q}$	
minimum elong	14430 Aug 31 03:55	22° $\text{P}$ 53'51	0°49'41	morning set	14431 Jul 30 05:50	11° $\text{Q}$ 26'57	
	14430 Sep 03 23:04	0° $\text{Q}$		max. Earth dist.	14431 Aug 05 08:02	21° $\text{Q}$ 18'52	1.42053 AU
asc. node	14430 Sep 05 17:27	3° $\text{Q}$ 21'39			14431 Aug 10 12:05	0° $\text{P}$	
evening rise	14430 Sep 09 12:54	10° $\text{Q}$ 40'38		superior conj	14431 Aug 12 23:17	4° $\text{P}$ 15'23	-1°25'09
	14430 Sep 20 08:16	0° $\text{M}$		minimum elong	14431 Aug 13 05:49	4° $\text{P}$ 43'52	1°24'51
evening max el	14430 Sep 25 13:26	6° $\text{M}$ 37'55	18°35'35	evening rise	14431 Aug 23 21:28	23° $\text{P}$ 53'11	
retrograde	14430 Oct 03 14:42	10° $\text{M}$ 41'56		asc. node	14431 Aug 23 14:02	23° $\text{P}$ 19'08	
evening set	14430 Oct 05 13:19	10° $\text{M}$ 28'30			14431 Aug 27 05:52	0° $\text{Q}$	
desc. node	14430 Oct 08 10:50	9° $\text{M}$ 23'10		evening max el	14431 Sep 08 22:42	19° $\text{Q}$ 20'04	18°09'17
inferior conj	14430 Oct 13 12:03	6° $\text{M}$ 00'53	-1°36'42	retrograde	14431 Sep 15 23:51	22° $\text{Q}$ 55'52	
minimum elong	14430 Oct 13 08:10	6° $\text{M}$ 08'17	1°34'37	evening set	14431 Sep 18 05:05	22° $\text{Q}$ 34'58	
min. Earth dist.	14430 Oct 16 16:20	3° $\text{M}$ 36'27	0.57404 AU	inferior conj	14431 Sep 25 09:40	17° $\text{Q}$ 46'23	-0°01'02
morning rise	14430 Oct 20 23:34	0° $\text{M}$ 55'10		minimum elong	14431 Sep 25 09:38	17° $\text{Q}$ 46'27	0°00'49
	14430 Oct 23 05:46	30° $\text{R}$ $\text{Q}$		transit middle	14431 Sep 25 09:38	17° $\text{Q}$ 46'27	0°00'49
direct	14430 Oct 27 00:44	29° $\text{Q}$ 23'44		transit begin	14431 Sep 25 06:15	17° $\text{Q}$ 53'56	
	14430 Oct 30 21:01	0° $\text{M}$		transit end	14431 Sep 25 13:01	17° $\text{Q}$ 38'56	
morning max el	14430 Nov 10 07:18	6° $\text{M}$ 53'03	26°49'51	desc. node	14431 Sep 25 08:20	17° $\text{Q}$ 49'19	
	14430 Nov 27 11:41	0° $\text{X}$		min. Earth dist.	14431 Sep 28 16:06	14° $\text{Q}$ 53'38	0.59579 AU
asc. node	14430 Dec 02 18:57	9° $\text{X}$ 31'10		morning rise	14431 Oct 02 10:51	12° $\text{Q}$ 07'14	
morning set	14430 Dec 09 23:09	24° $\text{X}$ 03'35		direct	14431 Oct 08 22:54	10° $\text{Q}$ 08'58	
	14430 Dec 12 16:41	0° $\text{Z}$		morning max el	14431 Oct 23 06:01	17° $\text{Q}$ 56'34	27°43'44
superior conj	14430 Dec 16 18:39	9° $\text{Z}$ 05'03	1°36'37		14431 Nov 02 08:20	0° $\text{M}$	
minimum elong	14430 Dec 16 17:56	9° $\text{Z}$ 01'02	1°37'39	asc. node	14431 Nov 19 15:51	29° $\text{M}$ 02'26	
max. Earth dist.	14430 Dec 17 04:22	9° $\text{Z}$ 59'20	1.31238 AU		14431 Nov 20 03:30	0° $\text{X}$	
evening rise	14430 Dec 23 15:16	24° $\text{Z}$ 07'56		morning set	14431 Nov 24 05:22	8° $\text{X}$ 21'25	
	14430 Dec 26 10:59	0° $\text{Z}$		max. Earth dist.	14431 Nov 30 12:22	22° $\text{X}$ 04'58	1.31144 AU
desc. node	14431 Jan 04 09:00	16° $\text{Z}$ 44'05		superior conj	14431 Dec 01 06:07	23° $\text{X}$ 44'03	1°29'39
	14431 Jan 12 21:17	0° $\text{X}$		minimum elong	14431 Dec 01 04:30	23° $\text{X}$ 35'04	1°30'32
evening max el	14431 Jan 23 12:35	12° $\text{X}$ 36'21	27°09'07		14431 Dec 04 01:28	0° $\text{Z}$	
retrograde	14431 Feb 06 12:27	19° $\text{X}$ 52'31		evening rise	14431 Dec 07 23:02	8° $\text{Z}$ 33'23	
evening set	14431 Feb 13 06:18	17° $\text{X}$ 53'16			14431 Dec 18 21:06	0° $\text{Z}$	
min. Earth dist.	14431 Feb 17 03:03	15° $\text{X}$ 10'19	0.60177 AU	desc. node	14431 Dec 22 05:53	5° $\text{Z}$ 38'31	
inferior conj	14431 Feb 20 07:36	12° $\text{X}$ 30'45	-2°40'57	evening max el	14432 Jan 05 10:54	23° $\text{Z}$ 57'24	26°09'53
minimum elong	14431 Feb 20 13:30	12° $\text{X}$ 18'24	2°38'16		14432 Jan 14 06:41	0° $\text{X}$	
morning rise	14431 Feb 28 00:02	7° $\text{X}$ 43'53		retrograde	14432 Jan 19 09:50	1° $\text{X}$ 01'57	
asc. node	14431 Feb 28 16:42	7° $\text{X}$ 34'39			14432 Jan 24 11:49	30° $\text{R}$ $\text{Z}$	
direct	14431 Mar 02 01:14	7° $\text{X}$ 27'22		evening set	14432 Jan 25 16:19	29° $\text{Z}$ 28'31	

min. Earth dist.	14432 Jan 30 00:15	26° $\approx$ 51'26	0.58024 AU	min. Earth dist.	14433 Jan 10 12:43	7° $\approx$ 27'34	0.56162 AU
inferior conj	14432 Feb 02 01:46	24° $\approx$ 38'33	-4°06'50	inferior conj	14433 Jan 12 23:02	5° $\approx$ 55'47	-5°20'31
minimum elong	14432 Feb 02 10:25	24° $\approx$ 22'51	4°03'26	minimum elong	14433 Jan 13 07:09	5° $\approx$ 42'58	5°18'02
morning rise	14432 Feb 10 07:33	20° $\approx$ 12'59		morning rise	14433 Jan 21 12:36	1° $\approx$ 51'25	
direct	14432 Feb 12 08:02	19° $\approx$ 59'33		direct	14433 Jan 23 19:45	1° $\approx$ 36'58	
asc. node	14432 Feb 15 14:09	20° $\approx$ 36'21		asc. node	14433 Feb 01 11:32	5° $\approx$ 18'51	
morning max el	14432 Feb 20 17:46	24° $\approx$ 07'29	18°35'51	morning max el	14433 Feb 02 14:58	6° $\approx$ 21'33	19°32'42
	14432 Feb 25 12:58	0° $\text{X}$			14433 Feb 17 17:16	0° $\text{X}$	
morning set	14432 Mar 07 17:54	19° $\text{X}$ 47'08		morning set	14433 Feb 19 20:45	4° $\text{X}$ 16'29	
	14432 Mar 13 01:00	0° $\text{Y}$					
superior conj	14432 Mar 16 16:06	6° $\text{Y}$ 51'06	0°21'30	superior conj	14433 Feb 27 21:25	20° $\text{X}$ 20'30	0°50'09
minimum elong	14432 Mar 16 17:33	6° $\text{Y}$ 57'48	0°21'14	minimum elong	14433 Feb 27 23:58	20° $\text{X}$ 33'01	0°50'01
desc. node	14432 Mar 19 07:31	11° $\text{Y}$ 42'48		desc. node	14433 Mar 04 22:33	0° $\text{Y}$	
max. Earth dist.	14432 Mar 24 00:43	20° $\text{Y}$ 06'03	1.40118 AU	max. Earth dist.	14433 Mar 06 04:02	2° $\text{Y}$ 16'26	
evening rise	14432 Mar 28 03:54	27° $\text{Y}$ 08'37		evening rise	14433 Mar 06 07:18	2° $\text{Y}$ 31'29	1.37844 AU
	14432 Mar 29 21:16	0° $\text{Z}$			14433 Mar 10 00:09	9° $\text{Y}$ 10'58	
	14432 Apr 18 20:03	0° $\text{II}$			14433 Mar 22 16:27	0° $\text{Z}$	
evening max el	14432 May 01 20:45	15° $\text{II}$ 46'02	23°49'20	evening max el	14433 Apr 14 10:19	29° $\text{Z}$ 39'59	25°07'39
retrograde	14432 May 12 20:08	22° $\text{II}$ 12'38		retrograde	14433 Apr 14 18:31	0° $\text{II}$	
asc. node	14432 May 13 10:46	22° $\text{II}$ 11'00		asc. node	14433 Apr 26 10:37	6° $\text{II}$ 38'36	
evening set	14432 May 18 03:34	19° $\text{II}$ 57'52		evening set	14433 Apr 30 08:03	5° $\text{II}$ 34'14	
min. Earth dist.	14432 May 22 20:46	14° $\text{II}$ 27'41	0.68793 AU		14433 May 02 05:38	4° $\text{II}$ 13'16	
inferior conj	14432 May 23 13:40	13° $\text{II}$ 29'58	2°38'44	min. Earth dist.	14433 May 06 02:26	30° $\text{R}$ $\text{Z}$	
minimum elong	14432 May 23 11:45	13° $\text{II}$ 36'31	2°37'22	inferior conj	14433 May 06 15:01	29° $\text{Z}$ 19'34	0.68108 AU
morning rise	14432 May 28 19:55	7° $\text{II}$ 26'03		minimum elong	14433 May 07 20:38	27° $\text{Z}$ 42'38	2°07'37
direct	14432 Jun 01 22:45	5° $\text{II}$ 50'10		morning rise	14433 May 07 18:28	27° $\text{Z}$ 49'43	2°06'11
morning max el	14432 Jun 09 21:24	10° $\text{II}$ 19'56	20°25'28	direct	14433 May 13 07:39	21° $\text{Z}$ 48'02	
desc. node	14432 Jun 15 08:48	16° $\text{II}$ 37'26		morning max el	14433 May 16 22:46	20° $\text{Z}$ 32'23	
	14432 Jun 25 00:48	0° $\text{S}$			14433 May 24 00:39	24° $\text{Z}$ 25'13	19°21'17
morning set	14432 Jul 08 14:36	20° $\text{S}$ 25'13		desc. node	14433 May 28 20:54	0° $\text{II}$	
	14432 Jul 14 17:47	0° $\text{Q}$		greatest brilliancy	14433 Jun 02 05:45	5° $\text{II}$ 57'26	
max. Earth dist.	14432 Jul 17 17:34	4° $\text{Q}$ 45'38	1.43949 AU	morning set	14433 Jun 05 17:08	11° $\text{II}$ 00'19	-0.7m
					14433 Jun 17 17:32	29° $\text{II}$ 13'41	
superior conj	14432 Jul 23 23:34	14° $\text{Q}$ 55'34	-1°54'48		14433 Jun 18 05:35	0° $\text{S}$	
minimum elong	14432 Jul 24 06:51	15° $\text{Q}$ 25'41	1°55'02	max. Earth dist.	14433 Jun 30 09:17	18° $\text{S}$ 53'23	1.45261 AU
	14432 Aug 01 21:43	0° $\text{R}$		superior conj	14433 Jul 04 00:47	24° $\text{S}$ 39'03	-2°11'58
evening rise	14432 Aug 05 13:56	6° $\text{R}$ 22'24		minimum elong	14433 Jul 04 04:01	24° $\text{S}$ 51'54	2°12'52
asc. node	14432 Aug 09 10:39	13° $\text{R}$ 05'16			14433 Jul 07 09:13	0° $\text{Q}$	
	14432 Aug 20 06:20	0° $\text{U}$		evening rise	14433 Jul 18 09:09	17° $\text{Q}$ 56'34	
evening max el	14432 Aug 22 12:24	2° $\text{U}$ 31'05	18°02'24		14433 Jul 25 16:43	0° $\text{R}$	
retrograde	14432 Aug 29 00:13	5° $\text{U}$ 52'58		asc. node	14433 Jul 27 07:19	2° $\text{R}$ 35'25	
evening set	14432 Aug 31 13:35	5° $\text{U}$ 20'56		evening max el	14433 Aug 06 02:54	16° $\text{R}$ 02'10	18°13'59
inferior conj	14432 Sep 07 01:58	0° $\text{U}$ 12'52	1°14'02	retrograde	14433 Aug 12 11:29	19° $\text{R}$ 24'08	
minimum elong	14432 Sep 07 03:56	0° $\text{U}$ 07'53	1°13'15	evening set	14433 Aug 15 09:21	18° $\text{R}$ 38'15	
	14432 Sep 07 07:01	30° $\text{R}$ $\text{R}$		inferior conj	14433 Aug 21 09:01	13° $\text{R}$ 13'05	2°08'01
min. Earth dist.	14432 Sep 10 01:06	27° $\text{R}$ 13'12	0.61878 AU	minimum elong	14433 Aug 21 11:27	13° $\text{R}$ 06'09	2°06'57
desc. node	14432 Sep 11 05:52	26° $\text{R}$ 05'47		min. Earth dist.	14433 Aug 23 19:56	10° $\text{R}$ 26'07	0.64045 AU
morning rise	14432 Sep 13 15:45	24° $\text{R}$ 09'19		morning rise	14433 Aug 27 11:55	6° $\text{R}$ 54'53	
direct	14432 Sep 20 07:59	21° $\text{R}$ 49'07		desc. node	14433 Aug 29 03:22	5° $\text{R}$ 46'57	
morning max el	14432 Oct 04 11:29	29° $\text{R}$ 47'13	27°58'37	direct	14433 Sep 03 02:20	4° $\text{R}$ 20'36	
	14432 Oct 04 16:36	0° $\text{U}$		morning max el	14433 Sep 16 21:19	12° $\text{R}$ 19'58	27°36'19
	14432 Oct 26 09:19	0° $\text{M}$			14433 Oct 01 00:18	0° $\text{U}$	
asc. node	14432 Nov 05 12:38	18° $\text{M}$ 50'01			14433 Oct 18 21:41	0° $\text{M}$	
morning set	14432 Nov 07 05:52	22° $\text{M}$ 19'35		morning set	14433 Oct 21 22:17	5° $\text{M}$ 53'07	
	14432 Nov 10 21:20	0° $\text{X}$		asc. node	14433 Oct 23 09:21	8° $\text{M}$ 48'53	
max. Earth dist.	14432 Nov 12 17:30	3° $\text{X}$ 59'20	1.31592 AU	max. Earth dist.	14433 Oct 26 16:05	15° $\text{M}$ 35'08	1.32588 AU
superior conj	14432 Nov 14 15:53	8° $\text{X}$ 14'07	1°16'50	superior conj	14433 Oct 29 21:59	22° $\text{M}$ 30'23	0°58'11
minimum elong	14432 Nov 14 13:42	8° $\text{X}$ 02'05	1°17'28	minimum elong	14433 Oct 29 19:43	22° $\text{M}$ 18'08	0°58'33
evening rise	14432 Nov 21 09:19	23° $\text{X}$ 03'07			14433 Nov 02 08:45	0° $\text{X}$	
	14432 Nov 24 16:10	0° $\text{Z}$		evening rise	14433 Nov 05 20:21	7° $\text{X}$ 32'53	
desc. node	14432 Dec 08 02:53	23° $\text{Z}$ 44'27			14433 Nov 17 11:06	0° $\text{Z}$	
	14432 Dec 12 21:05	0° $\approx$		desc. node	14433 Nov 24 23:58	10° $\text{Z}$ 44'20	
evening max el	14432 Dec 17 00:55	4° $\approx$ 27'50	24°42'01	evening max el	14433 Nov 28 10:28	14° $\text{Z}$ 27'31	22°59'51
retrograde	14432 Dec 30 18:28	11° $\approx$ 19'09		retrograde	14433 Dec 11 14:19	20° $\text{Z}$ 59'28	
evening set	14433 Jan 05 03:49	10° $\approx$ 14'57		evening set	14433 Dec 15 16:56	20° $\text{Z}$ 22'44	

min. Earth dist.	14433 Dec 22 19:47	17° $\text{S}$ 05'32	0.54889 AU	evening set	14434 Nov 24 20:48	0° $\text{S}$ 14'50	
inferior conj	14433 Dec 24 01:01	16° $\text{S}$ 23'44	-5°58'13		14434 Nov 25 20:58	30° $\text{R}$ $\text{S}$	
minimum elong	14433 Dec 24 02:36	16° $\text{S}$ 21'28	5°57'09	inferior conj	14434 Dec 03 16:40	26° $\text{S}$ 22'24	-5°38'37
morning rise	14434 Jan 01 13:43	12° $\text{S}$ 34'32		minimum elong	14434 Dec 03 09:27	26° $\text{S}$ 32'33	5°36'30
direct	14434 Jan 04 12:54	12° $\text{S}$ 13'59		min. Earth dist.	14434 Dec 04 01:37	26° $\text{S}$ 09'48	0.54457 AU
morning max el	14434 Jan 15 22:01	17° $\text{S}$ 41'12	20°52'48	morning rise	14434 Dec 11 22:40	22° $\text{S}$ 32'53	
asc. node	14434 Jan 19 08:52	21° $\text{S}$ 28'04		direct	14434 Dec 15 20:32	21° $\text{S}$ 59'50	
	14434 Jan 25 06:12	0° $\approx$		morning max el	14434 Dec 28 15:22	28° $\text{S}$ 09'56	22°32'52
morning set	14434 Feb 04 04:51	18° $\approx$ 57'04			14434 Dec 30 10:59	0° $\text{S}$	
	14434 Feb 09 11:57	0° $\text{H}$		asc. node	14435 Jan 06 06:07	8° $\text{S}$ 46'33	
					14435 Jan 17 21:31	0° $\approx$	
superior conj	14434 Feb 11 14:29	4° $\text{H}$ 20'54	1°11'58	morning set	14435 Jan 19 15:51	3° $\approx$ 42'15	
minimum elong	14434 Feb 11 17:04	4° $\text{H}$ 34'07	1°12'10				
max. Earth dist.	14434 Feb 16 15:59	14° $\text{H}$ 29'05	1.35688 AU	superior conj	14435 Jan 26 15:56	18° $\approx$ 42'43	1°27'00
evening rise	14434 Feb 20 14:14	21° $\text{H}$ 57'19		minimum elong	14435 Jan 26 17:52	18° $\approx$ 53'02	1°27'36
desc. node	14434 Feb 21 00:32	22° $\text{H}$ 45'00		max. Earth dist.	14435 Jan 30 06:58	26° $\approx$ 18'56	1.33852 AU
	14434 Feb 25 01:16	0° $\text{Y}$			14435 Feb 01 02:20	0° $\text{H}$	
	14434 Mar 16 11:58	0° $\text{B}$		evening rise	14435 Feb 03 18:43	5° $\text{H}$ 19'07	
evening max el	14434 Mar 27 23:50	13° $\text{B}$ 29'33	26°15'53	desc. node	14435 Feb 07 21:07	13° $\text{H}$ 04'41	
retrograde	14434 Apr 09 20:11	20° $\text{B}$ 49'16			14435 Feb 17 18:50	0° $\text{Y}$	
evening set	14434 Apr 16 01:52	18° $\text{B}$ 17'46		evening max el	14435 Mar 10 13:25	27° $\text{Y}$ 07'26	27°06'37
asc. node	14434 Apr 17 05:24	17° $\text{B}$ 16'17			14435 Mar 13 18:56	0° $\text{B}$	
min. Earth dist.	14434 Apr 20 04:52	13° $\text{B}$ 59'23	0.66979 AU	retrograde	14435 Mar 24 00:02	4° $\text{B}$ 36'25	
inferior conj	14434 Apr 21 23:12	11° $\text{B}$ 49'20	1°25'29	evening set	14435 Mar 30 14:22	2° $\text{B}$ 04'41	
minimum elong	14434 Apr 21 21:20	11° $\text{B}$ 55'06	1°24'14		14435 Apr 01 22:15	30° $\text{R}$ $\text{Y}$	
morning rise	14434 Apr 27 17:41	6° $\text{B}$ 05'27		min. Earth dist.	14435 Apr 03 12:24	28° $\text{Y}$ 19'20	0.65443 AU
direct	14434 Apr 30 21:56	5° $\text{B}$ 08'25		asc. node	14435 Apr 04 02:48	27° $\text{Y}$ 39'13	
morning max el	14434 May 07 10:52	8° $\text{B}$ 37'26	18°32'54	inferior conj	14435 Apr 05 19:04	25° $\text{Y}$ 44'51	0°31'38
desc. node	14434 May 20 02:36	25° $\text{B}$ 44'11		minimum elong	14435 Apr 05 18:13	25° $\text{Y}$ 47'15	0°30'56
	14434 May 22 20:33	0° $\text{II}$		morning rise	14435 Apr 11 23:41	20° $\text{Y}$ 13'23	
morning set	14434 May 28 11:22	8° $\text{II}$ 48'38		direct	14435 Apr 14 18:12	19° $\text{Y}$ 32'10	
	14434 Jun 11 00:16	0° $\text{S}$		morning max el	14435 Apr 21 02:08	22° $\text{Y}$ 50'02	18°01'18
					14435 Apr 26 21:22	0° $\text{B}$	
superior conj	14434 Jun 13 10:46	3° $\text{S}$ 48'10	-2°10'20	desc. node	14435 May 06 23:21	15° $\text{B}$ 50'28	
minimum elong	14434 Jun 13 06:17	3° $\text{S}$ 30'42	2°11'14	morning set	14435 May 09 08:17	19° $\text{B}$ 42'50	
max. Earth dist.	14434 Jun 13 04:19	3° $\text{S}$ 23'00	1.45867 AU		14435 May 15 16:17	0° $\text{II}$	
evening rise	14434 Jun 29 03:35	28° $\text{S}$ 27'57					
	14434 Jun 30 02:50	0° $\text{Q}$		superior conj	14435 May 23 21:49	13° $\text{II}$ 06'57	-1°49'09
greatest brilliancy	14434 Jul 07 07:50	11° $\text{Q}$ 22'54	-0.8m	minimum elong	14435 May 23 12:56	12° $\text{II}$ 31'55	1°49'22
asc. node	14434 Jul 14 04:03	21° $\text{Q}$ 42'45		max. Earth dist.	14435 May 27 00:13	17° $\text{II}$ 59'01	1.45727 AU
evening max el	14434 Jul 20 15:08	29° $\text{Q}$ 44'56	18°43'20		14435 Jun 03 17:40	0° $\text{S}$	
	14434 Jul 20 21:18	0° $\text{P}$		evening rise	14435 Jun 09 00:07	8° $\text{S}$ 07'51	
retrograde	14434 Jul 27 05:29	3° $\text{P}$ 20'18		greatest brilliancy	14435 Jun 22 04:56	28° $\text{S}$ 11'26	-0.7m
evening set	14434 Jul 30 12:17	2° $\text{P}$ 18'35			14435 Jun 23 10:31	0° $\text{Q}$	
	14434 Aug 02 05:51	30° $\text{R}$ $\text{Q}$		asc. node	14435 Jul 01 00:51	10° $\text{Q}$ 19'21	
inferior conj	14434 Aug 05 02:54	26° $\text{Q}$ 38'32	2°43'37	evening max el	14435 Jul 03 22:54	13° $\text{Q}$ 33'38	19°29'21
minimum elong	14434 Aug 05 04:54	26° $\text{Q}$ 32'19	2°42'34	retrograde	14435 Jul 11 03:08	17° $\text{Q}$ 34'37	
min. Earth dist.	14434 Aug 06 23:49	24° $\text{Q}$ 19'21	0.65909 AU	evening set	14435 Jul 14 19:27	16° $\text{Q}$ 15'58	
morning rise	14434 Aug 10 20:33	20° $\text{Q}$ 13'55		inferior conj	14435 Jul 20 04:22	10° $\text{Q}$ 22'31	3°03'47
desc. node	14434 Aug 16 00:50	17° $\text{Q}$ 39'40		minimum elong	14435 Jul 20 05:30	10° $\text{Q}$ 18'47	3°02'48
direct	14434 Aug 17 04:35	17° $\text{Q}$ 34'41		min. Earth dist.	14435 Jul 21 10:58	8° $\text{Q}$ 41'25	0.67377 AU
morning max el	14434 Aug 30 08:41	25° $\text{Q}$ 22'36	26°43'24	morning rise	14435 Jul 25 15:01	3° $\text{Q}$ 57'32	
	14434 Sep 03 14:07	0° $\text{P}$		direct	14435 Jul 31 13:32	1° $\text{Q}$ 22'15	
	14434 Sep 24 12:17	0° $\text{S}$		desc. node	14435 Aug 02 22:17	1° $\text{Q}$ 43'26	
morning set	14434 Oct 05 03:39	18° $\text{S}$ 55'19		morning max el	14435 Aug 12 19:36	8° $\text{Q}$ 42'40	25°28'41
max. Earth dist.	14434 Oct 09 05:12	26° $\text{S}$ 50'20	1.34115 AU		14435 Aug 29 13:29	0° $\text{P}$	
asc. node	14434 Oct 10 05:59	28° $\text{S}$ 54'37			14435 Sep 17 01:15	0° $\text{S}$	
	14434 Oct 10 18:55	0° $\text{M}$		morning set	14435 Sep 17 18:13	1° $\text{S}$ 16'22	
				max. Earth dist.	14435 Sep 21 08:32	7° $\text{S}$ 54'11	1.36114 AU
superior conj	14434 Oct 13 22:08	6° $\text{M}$ 27'17	0°33'50	asc. node	14435 Sep 27 02:33	19° $\text{S}$ 02'36	
minimum elong	14434 Oct 13 20:26	6° $\text{M}$ 18'26	0°34'02				
evening rise	14434 Oct 21 06:13	21° $\text{M}$ 58'05		superior conj	14435 Sep 27 13:28	19° $\text{S}$ 57'03	0°04'14
	14434 Oct 25 03:45	0° $\text{S}$		minimum elong	14435 Sep 27 13:11	19° $\text{S}$ 55'40	0°04'26
evening max el	14434 Nov 10 01:12	24° $\text{S}$ 35'06	21°21'35	behind sun begin	14435 Sep 27 07:06	19° $\text{S}$ 25'17	
desc. node	14434 Nov 11 21:10	26° $\text{S}$ 15'35		behind sun end	14435 Sep 27 19:17	20° $\text{S}$ 26'07	
	14434 Nov 18 09:45	0° $\text{S}$			14435 Oct 02 12:11	0° $\text{M}$	
retrograde	14434 Nov 22 01:43	0° $\text{S}$ 32'52		evening rise	14435 Oct 05 12:46	6° $\text{M}$ 12'30	

	14435 Oct 18 17:40	0°♊		evening max el	14436 Oct 04 22:45	16°♎57'36	19°00'02
evening max el	14435 Oct 23 04:55	5°♊21'37	20°00'01	retrograde	14436 Oct 13 18:15	21°♎23'16	
desc. node	14435 Oct 29 18:30	9°♊51'11		evening set	14436 Oct 15 15:12	21°♎12'05	
retrograde	14435 Nov 02 14:51	10°♊32'51		desc. node	14436 Oct 15 15:53	21°♎11'44	
evening set	14435 Nov 04 15:31	10°♊21'58		inferior conj	14436 Oct 23 23:50	16°♎56'07	-2°38'10
inferior conj	14435 Nov 13 12:05	6°♊23'11	-4°22'58	minimum elong	14436 Oct 23 17:11	17°♎07'39	2°34'56
minimum elong	14435 Nov 13 02:04	6°♊38'21	4°19'04	min. Earth dist.	14436 Oct 26 20:57	14°♎56'31	0.56341 AU
min. Earth dist.	14435 Nov 15 09:11	5°♊14'57	0.54974 AU	morning rise	14436 Oct 31 16:20	12°♎12'30	
morning rise	14435 Nov 21 11:24	2°♊13'43		direct	14436 Nov 06 08:50	10°♎56'33	
direct	14435 Nov 26 08:29	1°♊21'42		morning max el	14436 Nov 20 12:05	18°♎11'04	26°02'56
morning max el	14435 Dec 10 00:59	8°♊08'03	24°22'10		14436 Nov 30 08:26	0°♊	
asc. node	14435 Dec 24 03:17	26°♊57'22		asc. node	14436 Dec 10 00:22	15°♊47'30	
	14435 Dec 25 21:08	0°♊			14436 Dec 17 04:30	0°♊	
morning set	14436 Jan 04 03:47	18°♊25'49		morning set	14436 Dec 18 14:55	3°♊03'16	
	14436 Jan 09 10:57	0°♊					
superior conj	14436 Jan 10 22:54	3°♊17'08	1°35'34	superior conj	14436 Dec 25 09:10	17°♊57'50	1°37'57
minimum elong	14436 Jan 10 23:52	3°♊22'23	1°36'28	minimum elong	14436 Dec 25 09:03	17°♊57'10	1°38'59
max. Earth dist.	14436 Jan 13 05:43	8°♊14'48	1.32453 AU	max. Earth dist.	14436 Dec 26 10:46	20°♊20'02	1.31541 AU
evening rise	14436 Jan 18 10:12	19°♊07'11			14436 Dec 30 21:06	0°♊	
	14436 Jan 24 00:23	0°♊		evening rise	14437 Jan 01 09:52	3°♊14'30	
desc. node	14436 Jan 25 17:46	3°♊09'54		desc. node	14437 Jan 11 14:28	22°♊54'35	
	14436 Feb 11 23:23	0°♊			14437 Jan 15 19:20	0°♊	
evening max el	14436 Feb 21 01:52	10°♊22'20	27°32'39	evening max el	14437 Feb 02 10:57	23°♊01'22	27°27'36
retrograde	14436 Mar 05 20:57	17°♊50'24			14437 Feb 13 12:17	0°♊	
evening set	14436 Mar 12 16:47	15°♊25'31		retrograde	14437 Feb 16 09:45	0°♊22'01	
min. Earth dist.	14436 Mar 16 11:40	12°♊09'36	0.63564 AU	evening set	14437 Feb 19 05:27	30°♊	
inferior conj	14436 Mar 19 05:27	9°♊22'01	-0°34'32	min. Earth dist.	14437 Feb 23 06:17	28°♊11'22	
minimum elong	14436 Mar 19 06:33	9°♊19'12	0°34'09	inferior conj	14437 Feb 27 00:57	25°♊19'05	0.61448 AU
asc. node	14436 Mar 21 00:16	7°♊35'31		minimum elong	14437 Mar 02 03:04	22°♊32'15	-1°52'16
morning rise	14436 Mar 25 22:44	4°♊05'23		asc. node	14437 Mar 02 07:03	22°♊23'13	1°50'25
direct	14436 Mar 28 08:56	3°♊36'32		morning rise	14437 Mar 07 21:46	18°♊11'05	
morning max el	14436 Apr 03 19:44	6°♊54'38	17°47'03	direct	14437 Mar 09 10:52	17°♊33'31	
	14436 Apr 19 05:20	0°♊		morning max el	14437 Mar 11 14:41	17°♊13'25	
morning set	14436 Apr 20 08:02	1°♊54'14			14437 Mar 18 12:33	20°♊42'23	17°50'43
desc. node	14436 Apr 22 20:02	6°♊10'25		morning set	14437 Mar 25 12:23	0°♊	
				desc. node	14437 Apr 03 04:53	15°♊04'39	
superior conj	14436 May 03 01:32	23°♊14'51	-1°14'40		14437 Apr 09 16:38	26°♊39'07	
minimum elong	14436 May 02 18:13	22°♊45'03	1°14'29		14437 Apr 11 14:34	0°♊	
	14436 May 07 05:58	0°♊		superior conj	14437 Apr 14 04:49	4°♊28'20	-0°35'25
max. Earth dist.	14436 May 08 19:00	2°♊27'28	1.44860 AU	minimum elong	14437 Apr 14 01:32	4°♊14'19	0°35'24
evening rise	14436 May 18 11:06	17°♊31'37		max. Earth dist.	14437 Apr 21 10:40	16°♊33'28	1.43358 AU
	14436 May 26 17:02	0°♊		evening rise	14437 Apr 28 04:40	27°♊19'27	
evening max el	14436 Jun 16 00:59	27°♊24'46	20°30'11		14437 Apr 29 21:56	0°♊	
asc. node	14436 Jun 16 21:46	28°♊15'03			14437 May 20 12:07	0°♊	
	14436 Jun 18 23:49	0°♊		evening max el	14437 May 29 21:21	11°♊15'51	21°42'47
retrograde	14436 Jun 24 02:03	2°♊01'52		asc. node	14437 Jun 03 18:49	15°♊15'46	
evening set	14436 Jun 28 04:36	0°♊25'56		retrograde	14437 Jun 08 00:25	16°♊35'58	
	14436 Jun 28 17:05	30°♊		evening set	14437 Jun 12 13:52	14°♊43'23	
inferior conj	14436 Jul 03 10:46	24°♊20'23	3°10'55	inferior conj	14437 Jun 17 19:51	8°♊27'09	3°06'40
minimum elong	14436 Jul 03 10:54	24°♊19'57	3°09'55	minimum elong	14437 Jun 17 19:01	8°♊30'01	3°05'34
min. Earth dist.	14436 Jul 04 03:26	23°♊23'07	0.68391 AU	min. Earth dist.	14437 Jun 17 23:06	8°♊15'47	0.68925 AU
morning rise	14436 Jul 08 16:53	17°♊58'54		morning rise	14437 Jun 22 23:59	2°♊11'29	
direct	14436 Jul 14 03:51	15°♊35'05		direct	14437 Jun 27 22:26	0°♊04'27	
desc. node	14436 Jul 19 19:40	17°♊36'03		desc. node	14437 Jul 06 16:57	4°♊50'57	
morning max el	14436 Jul 25 05:59	22°♊13'02	24°02'01	morning max el	14437 Jul 07 17:48	5°♊51'29	22°32'43
	14436 Aug 01 01:05	0°♊			14437 Jul 26 08:40	0°♊	
	14436 Aug 21 20:20	0°♊		morning set	14437 Aug 10 09:46	23°♊14'41	
morning set	14436 Aug 29 13:39	12°♊46'15			14437 Aug 14 11:48	0°♊	
max. Earth dist.	14436 Sep 02 06:52	19°♊15'14	1.38425 AU	max. Earth dist.	14437 Aug 15 06:55	1°♊20'31	1.40788 AU
	14436 Sep 08 04:09	0°♊					
superior conj	14436 Sep 09 16:33	2°♊51'47	-0°29'33	superior conj	14437 Aug 23 03:08	15°♊00'59	-1°05'13
minimum elong	14436 Sep 09 18:38	3°♊01'39	0°29'13	minimum elong	14437 Aug 23 08:09	15°♊23'32	1°04'49
asc. node	14436 Sep 12 23:07	9°♊09'42		asc. node	14437 Aug 30 19:40	29°♊11'44	
evening rise	14436 Sep 18 13:30	20°♊10'10			14437 Aug 31 05:56	0°♊	
	14436 Sep 23 15:41	0°♊		evening rise	14437 Sep 02 05:07	3°♊42'15	
				evening max el	14437 Sep 18 03:31	29°♊17'51	18°21'48

	14437 Sep 18 21:12	0°♍		evening rise	14438 Aug 16 07:29	16°♎38'19	
retrograde	14437 Sep 25 17:07	3°♍08'18		asc. node	14438 Aug 17 16:14	19°♎05'04	
evening set	14437 Sep 27 18:17	2°♍52'07			14438 Aug 23 21:40	0°♎	
desc. node	14437 Oct 02 13:22	0°♍26'08		evening max el	14438 Sep 01 15:04	12°♎13'17	18°03'58
	14437 Oct 03 03:46	30°♎♎		retrograde	14438 Sep 08 09:27	15°♎41'48	
inferior conj	14437 Oct 05 09:12	28°♎15'04	-0°53'53	evening set	14438 Sep 10 17:55	15°♎16'41	
minimum elong	14437 Oct 05 07:09	28°♎19'13	0°52'39	inferior conj	14438 Sep 17 15:15	10°♎19'27	0°33'26
min. Earth dist.	14437 Oct 08 15:39	25°♎36'24	0.58301 AU	minimum elong	14438 Sep 17 16:17	10°♎17'00	0°33'08
morning rise	14437 Oct 12 16:33	22°♎54'16		desc. node	14438 Sep 19 10:52	8°♎36'00	
direct	14437 Oct 18 23:01	21°♎11'32		min. Earth dist.	14438 Sep 20 19:22	7°♎21'02	0.60556 AU
morning max el	14437 Nov 02 06:25	28°♎48'45	27°17'27	morning rise	14438 Sep 24 11:34	4°♎28'18	
	14437 Nov 03 10:54	0°♍		direct	14438 Oct 01 01:59	2°♎19'59	
	14437 Nov 24 04:14	0°♎		morning max el	14438 Oct 15 08:31	10°♎13'41	27°54'55
asc. node	14437 Nov 26 21:20	5°♎06'22			14438 Oct 30 17:39	0°♍	
morning set	14437 Dec 02 23:29	17°♎30'03		asc. node	14438 Nov 13 18:10	24°♍45'36	
	14437 Dec 08 16:16	0°♎			14438 Nov 16 08:10	0°♎	
				morning set	14438 Nov 17 03:32	1°♎40'38	
superior conj	14437 Dec 09 20:44	2°♎39'10	1°34'23	max. Earth dist.	14438 Nov 23 02:11	14°♎31'18	1.31265 AU
minimum elong	14437 Dec 09 19:37	2°♎32'52	1°35'21				
max. Earth dist.	14437 Dec 09 18:55	2°♎28'59	1.31136 AU	superior conj	14438 Nov 24 07:42	17°♎15'13	1°24'56
evening rise	14437 Dec 16 15:17	17°♎35'04		minimum elong	14438 Nov 24 05:48	17°♎04'40	1°25'43
	14437 Dec 22 17:16	0°♎			14438 Nov 30 01:41	0°♎	
desc. node	14437 Dec 29 11:17	12°♎10'46		evening rise	14438 Dec 01 00:19	2°♎02'55	
	14438 Jan 10 23:16	0°♎			14438 Dec 15 20:09	0°♎	
evening max el	14438 Jan 15 13:44	4°♎52'43	26°47'56	desc. node	14438 Dec 16 08:12	0°♎46'48	
retrograde	14438 Jan 29 13:08	12°♎03'44		evening max el	14438 Dec 28 08:08	15°♎50'29	25°35'16
evening set	14438 Feb 05 03:32	10°♎14'33		retrograde	14439 Jan 11 05:36	22°♎50'39	
min. Earth dist.	14438 Feb 09 03:38	7°♎36'12	0.59244 AU	evening set	14439 Jan 17 04:25	21°♎29'12	
inferior conj	14438 Feb 12 08:17	5°♎06'00	-3°17'42	min. Earth dist.	14439 Jan 21 20:43	18°♎50'04	0.57174 AU
minimum elong	14438 Feb 12 15:32	4°♎51'43	3°14'33	inferior conj	14439 Jan 24 17:39	16°♎52'49	-4°40'51
morning rise	14438 Feb 20 06:47	0°♎28'11		minimum elong	14439 Jan 25 02:42	16°♎37'23	4°37'38
direct	14438 Feb 22 07:09	0°♎13'22		morning rise	14439 Feb 02 03:46	12°♎37'01	
asc. node	14438 Feb 22 19:16	0°♎14'19		direct	14439 Feb 04 05:53	12°♎23'48	
morning max el	14438 Mar 02 01:02	4°♎03'43	18°13'30	asc. node	14439 Feb 09 16:43	14°♎00'13	
morning set	14438 Mar 17 16:56	28°♎56'33		morning max el	14439 Feb 13 05:05	16°♎46'12	18°57'16
	14438 Mar 18 06:24	0°♎			14439 Feb 22 15:02	0°♎	
				morning set	14439 Mar 01 15:24	13°♎15'05	
superior conj	14438 Mar 27 06:55	16°♎44'48	0°02'08				
minimum elong	14438 Mar 27 07:04	16°♎45'28	0°01'54	superior conj	14439 Mar 10 03:35	29°♎51'12	0°34'27
behind sun begin	14438 Mar 26 23:36	16°♎11'46		minimum elong	14439 Mar 10 05:40	0°♎01'04	0°34'13
behind sun end	14438 Mar 27 14:32	17°♎19'04			14439 Mar 10 05:26	0°♎	
desc. node	14438 Mar 27 13:10	17°♎12'56		desc. node	14439 Mar 14 09:39	7°♎47'33	
	14438 Apr 03 20:56	0°♎		max. Earth dist.	14439 Mar 17 04:15	12°♎47'42	1.39145 AU
max. Earth dist.	14438 Apr 03 21:36	0°♎02'48	1.41380 AU	evening rise	14439 Mar 21 00:33	19°♎29'41	
evening rise	14438 Apr 08 16:01	7°♎57'01			14439 Mar 27 08:58	0°♎	
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evening max el	14438 May 12 13:19	25°♎07'28	23°02'30	evening max el	14439 Apr 25 03:05	9°♎00'22	24°23'24
	14438 May 18 16:36	0°♎		retrograde	14439 May 06 13:50	15°♎42'42	
asc. node	14438 May 21 15:58	1°♎05'15		asc. node	14439 May 08 13:13	15°♎25'39	
retrograde	14438 May 22 20:46	1°♎11'41		evening set	14439 May 12 02:11	13°♎22'53	
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evening set	14438 May 27 21:36	29°♎04'06		inferior conj	14439 May 17 14:08	6°♎53'00	2°26'51
inferior conj	14438 Jun 02 05:36	22°♎39'25	2°51'55	minimum elong	14439 May 17 12:04	6°♎59'59	2°25'26
minimum elong	14438 Jun 02 04:00	22°♎44'57	2°50'38	morning rise	14439 May 22 22:04	0°♎52'50	
min. Earth dist.	14438 Jun 01 19:55	23°♎12'58	0.68977 AU		14439 May 24 08:47	30°♎♎	
morning rise	14438 Jun 07 10:20	16°♎30'54		direct	14439 May 26 19:43	29°♎25'51	
direct	14438 Jun 11 20:08	14°♎43'32			14439 May 29 09:34	0°♎	
morning max el	14438 Jun 20 09:59	19°♎39'48	21°08'50	morning max el	14439 Jun 03 08:51	3°♎38'51	19°56'18
desc. node	14438 Jun 23 14:07	23°♎06'43		desc. node	14439 Jun 10 11:08	12°♎06'47	
	14438 Jun 29 01:04	0°♎			14439 Jun 22 20:24	0°♎	
	14438 Jul 19 12:19	0°♎		morning set	14439 Jun 30 09:23	11°♎28'10	
morning set	14438 Jul 21 05:40	2°♎41'08		max. Earth dist.	14439 Jul 11 00:10	28°♎02'00	1.44579 AU
max. Earth dist.	14438 Jul 28 12:25	14°♎18'07	1.42919 AU		14439 Jul 12 05:51	0°♎	
superior conj	14438 Aug 04 16:50	26°♎15'11	-1°38'47	superior conj	14439 Jul 16 06:56	6°♎30'05	-2°04'04
minimum elong	14438 Aug 05 00:07	26°♎46'11	1°38'39	minimum elong	14439 Jul 16 13:11	6°♎55'27	2°04'36
	14438 Aug 06 21:21	0°♎		evening rise	14439 Jul 29 15:30	28°♎45'40	



























































































































	14439 Jul 30 08:57	0°♍		minimum elong	14440 Jun 25 00:09	15°♊54'56	2°14'50
asc. node	14439 Aug 04 12:51	8°♍45'23			14440 Jul 03 21:18	0°♊	
evening max el	14439 Aug 16 05:32	25°♍34'26	18°05'11	evening rise	14440 Jul 10 00:14	9°♊52'30	
retrograde	14439 Aug 22 14:57	28°♍54'48		asc. node	14440 Jul 21 09:31	28°♊06'38	
evening set	14439 Aug 25 07:47	28°♍17'19			14440 Jul 22 15:35	0°♍	
inferior conj	14439 Aug 31 14:21	23°♍02'00	1°39'20	evening max el	14440 Jul 29 19:27	9°♍11'41	18°24'29
minimum elong	14439 Aug 31 16:40	22°♍55'49	1°38'22	retrograde	14440 Aug 05 05:20	12°♍37'26	
min. Earth dist.	14439 Sep 03 08:49	20°♍05'13	0.62822 AU	evening set	14440 Aug 08 07:01	11°♍44'59	
desc. node	14439 Sep 06 08:23	17°♍19'46		inferior conj	14440 Aug 14 02:25	6°♍13'32	2°25'11
morning rise	14439 Sep 06 23:21	16°♍50'59		minimum elong	14440 Aug 14 04:44	6°♍06'38	2°24'06
direct	14439 Sep 13 15:31	14°♍23'20		min. Earth dist.	14440 Aug 16 07:33	3°♍36'46	0.64881 AU
morning max el	14439 Sep 27 16:10	22°♍24'11	27°53'20		14440 Aug 19 21:15	30°♍♊	
	14439 Oct 04 09:08	0°♊		morning rise	14440 Aug 20 01:09	29°♊51'59	
	14439 Oct 23 22:43	0°♌		desc. node	14440 Aug 23 05:54	27°♊54'07	
asc. node	14439 Oct 31 14:54	14°♌39'10		direct	14440 Aug 26 13:30	27°♊14'17	
morning set	14439 Nov 01 00:57	15°♌30'02			14440 Sep 03 01:26	0°♍	
max. Earth dist.	14439 Nov 06 04:49	26°♌18'32	1.31944 AU	morning max el	14440 Sep 09 02:41	5°♍10'16	27°17'04
	14439 Nov 07 21:42	0°♊			14440 Sep 28 00:59	0°♊	
				morning set	14440 Oct 14 13:03	28°♊51'07	
superior conj	14439 Nov 08 16:12	1°♊41'03	1°09'38		14440 Oct 15 03:06	0°♌	
minimum elong	14439 Nov 08 13:55	1°♊28'32	1°10'10	asc. node	14440 Oct 17 11:33	4°♌41'29	
evening rise	14439 Nov 15 11:10	16°♊33'52		max. Earth dist.	14440 Oct 18 23:25	7°♌44'29	1.33175 AU
	14439 Nov 22 00:03	0°♊					
desc. node	14439 Dec 03 05:13	18°♊27'48		superior conj	14440 Oct 22 20:05	15°♌50'14	0°48'33
evening max el	14439 Dec 09 19:26	26°♊05'00	23°59'16	minimum elong	14440 Oct 22 17:58	15°♌38'57	0°48'50
	14439 Dec 14 16:35	0°♌			14440 Oct 29 10:12	0°♊	
retrograde	14439 Dec 23 09:04	2°♌49'38		evening rise	14440 Oct 29 21:55	1°♊02'29	
evening set	14439 Dec 28 05:54	1°♌58'00			14440 Nov 15 00:30	0°♊	
	14440 Jan 01 13:00	30°♌♊		desc. node	14440 Nov 19 02:21	4°♊53'23	
min. Earth dist.	14440 Jan 03 06:48	29°♊00'00	0.55532 AU	evening max el	14440 Nov 20 06:09	6°♊04'05	22°16'41
inferior conj	14440 Jan 05 06:12	27°♊48'46	-5°42'27	retrograde	14440 Dec 02 23:53	12°♊22'37	
minimum elong	14440 Jan 05 12:17	27°♊39'37	5°40'42	evening set	14440 Dec 06 12:23	11°♊55'19	
morning rise	14440 Jan 13 20:27	23°♊51'46		min. Earth dist.	14440 Dec 14 12:57	8°♊19'55	0.54600 AU
direct	14440 Jan 16 09:03	23°♊35'33		inferior conj	14440 Dec 15 02:17	8°♊01'13	-5°57'31
morning max el	14440 Jan 26 20:37	28°♊38'26	20°03'53	minimum elong	14440 Dec 14 23:52	8°♊04'37	5°56'21
asc. node	14440 Jan 27 14:04	29°♊21'58		morning rise	14440 Dec 23 12:25	4°♊14'00	
	14440 Jan 28 04:29	0°♌		direct	14440 Dec 26 21:03	3°♊48'43	
morning set	14440 Feb 13 20:48	27°♌50'06		morning max el	14441 Jan 07 21:18	9°♊34'40	21°33'15
	14440 Feb 14 22:14	0°♋		asc. node	14441 Jan 13 11:21	16°♊02'50	
					14441 Jan 22 00:08	0°♌	
superior conj	14440 Feb 21 14:22	13°♋35'08	1°00'13	morning set	14441 Jan 28 06:25	12°♌33'47	
minimum elong	14440 Feb 21 17:02	13°♋48'30	1°00'14				
max. Earth dist.	14440 Feb 27 10:47	24°♋57'31	1.36903 AU	superior conj	14441 Feb 04 11:23	27°♌45'49	1°19'09
desc. node	14440 Feb 29 06:10	28°♋19'36		minimum elong	14441 Feb 04 13:45	27°♌58'11	1°19'31
	14440 Mar 01 04:04	0°♍			14441 Feb 05 13:13	0°♋	
evening rise	14440 Mar 02 04:51	1°♍52'18		max. Earth dist.	14441 Feb 08 22:03	6°♋51'00	1.34867 AU
	14440 Mar 19 11:51	0°♋		evening rise	14441 Feb 13 01:33	14°♋55'24	
evening max el	14440 Apr 06 16:37	22°♋53'21	25°38'26	desc. node	14441 Feb 15 02:42	18°♋45'16	
	14440 Apr 18 06:13	0°♌			14441 Feb 21 11:31	0°♍	
retrograde	14440 Apr 19 02:23	0°♌02'37			14441 Mar 14 03:28	0°♋	
	14440 Apr 19 22:12	30°♋♌		evening max el	14441 Mar 20 06:30	6°♋40'31	26°40'06
asc. node	14440 Apr 24 10:33	28°♋05'00		retrograde	14441 Apr 02 09:30	14°♋04'43	
evening set	14440 Apr 25 01:57	27°♋34'19		evening set	14441 Apr 08 19:10	11°♋32'39	
min. Earth dist.	14440 Apr 29 08:32	22°♋55'31	0.67677 AU	asc. node	14441 Apr 11 07:56	9°♋09'31	
inferior conj	14440 Apr 30 19:30	21°♋03'47	1°51'09	min. Earth dist.	14441 Apr 12 20:01	7°♋28'31	0.66374 AU
minimum elong	14440 Apr 30 17:23	21°♋10'33	1°49'45	inferior conj	14441 Apr 14 19:34	5°♋07'13	1°04'10
morning rise	14440 May 06 09:19	15°♋13'16		minimum elong	14441 Apr 14 18:01	5°♋11'49	1°03'05
direct	14440 May 09 19:40	14°♋05'46			14441 Apr 19 21:36	30°♋♍	
morning max el	14440 May 16 15:06	17°♋47'08	18°58'35	morning rise	14441 Apr 20 18:00	29°♍28'10	
	14440 May 26 04:59	0°♌		direct	14441 Apr 23 18:03	28°♍38'04	
desc. node	14440 May 27 08:03	1°♌39'14			14441 Apr 27 17:08	0°♋	
greatest brilliancy	14440 May 29 21:47	5°♌29'42	-0.7m	morning max el	14441 Apr 30 03:45	2°♋00'40	18°17'22
morning set	14440 Jun 08 16:12	20°♌29'15		desc. node	14441 May 14 04:53	21°♋35'35	
	14440 Jun 14 19:25	0°♊			14441 May 19 11:41	0°♌	
max. Earth dist.	14440 Jun 22 17:16	12°♊19'45	1.45606 AU	morning set	14441 May 19 21:05	0°♌37'27	
superior conj	14440 Jun 25 00:05	15°♊54'42	-2°13'48	superior conj	14441 Jun 04 08:21	25°♌02'29	-2°03'30

minimum elong	14441 Jun 04 01:13	24° $\Pi$ 34'38	2°04'08	superior conj	14442 May 15 01:01	4° $\Pi$ 38'37	-1°35'39
max. Earth dist.	14441 Jun 05 13:29	26° $\Pi$ 56'15	1.45902 AU	minimum elong	14442 May 14 16:13	4° $\Pi$ 03'33	1°35'36
	14441 Jun 07 12:36	0° $\mathfrak{S}$		max. Earth dist.	14442 May 19 09:42	11° $\Pi$ 32'56	1.45445 AU
evening rise	14441 Jun 20 08:32	19° $\mathfrak{S}$ 59'55		evening rise	14442 May 30 23:08	29° $\Pi$ 28'13	
	14441 Jun 26 18:36	0° $\Omega$			14442 May 31 07:26	0° $\mathfrak{S}$	
greatest brilliancy	14441 Jun 30 20:15	6° $\Omega$ 15'55	-0.8m	greatest brilliancy	14442 Jun 14 15:19	21° $\mathfrak{S}$ 31'03	-0.6m
asc. node	14441 Jul 08 06:18	17° $\Omega$ 02'21			14442 Jun 20 17:18	0° $\Omega$	
evening max el	14441 Jul 13 06:06	22° $\Omega$ 58'09	19°00'58	asc. node	14442 Jun 25 03:10	5° $\Omega$ 23'01	
retrograde	14441 Jul 20 01:13	26° $\Omega$ 42'39		evening max el	14442 Jun 26 11:28	6° $\Omega$ 47'52	19°53'29
evening set	14441 Jul 23 12:06	25° $\Omega$ 33'38		retrograde	14442 Jul 03 23:46	11° $\Omega$ 03'14	
inferior conj	14441 Jul 28 23:53	19° $\Omega$ 47'38	2°53'53	evening set	14442 Jul 07 20:22	9° $\Omega$ 37'05	
minimum elong	14441 Jul 29 01:33	19° $\Omega$ 42'19	2°52'52	inferior conj	14442 Jul 13 03:46	3° $\Omega$ 38'02	3°08'16
min. Earth dist.	14441 Jul 30 14:37	17° $\Omega$ 43'59	0.66589 AU	minimum elong	14442 Jul 13 04:28	3° $\Omega$ 35'39	3°07'18
morning rise	14441 Aug 03 14:18	13° $\Omega$ 22'33		min. Earth dist.	14442 Jul 14 04:17	2° $\Omega$ 15'24	0.67865 AU
direct	14441 Aug 09 18:37	10° $\Omega$ 44'11			14442 Jul 15 22:13	30° $\mathfrak{R}$ $\mathfrak{S}$	
desc. node	14441 Aug 10 03:23	10° $\Omega$ 44'41		morning rise	14442 Jul 18 12:11	27° $\mathfrak{S}$ 14'09	
morning max el	14441 Aug 22 13:58	18° $\Omega$ 21'28	26°13'47	direct	14442 Jul 24 05:49	24° $\mathfrak{S}$ 43'17	
	14441 Sep 01 09:46	0° $\mathfrak{M}$		desc. node	14442 Jul 28 00:49	25° $\mathfrak{S}$ 37'45	
	14441 Sep 21 00:58	0° $\mathfrak{L}$			14442 Aug 03 04:27	0° $\Omega$	
morning set	14441 Sep 27 12:35	11° $\mathfrak{L}$ 36'45		morning max el	14442 Aug 05 00:47	1° $\Omega$ 47'15	24°52'46
max. Earth dist.	14441 Oct 01 08:22	18° $\mathfrak{L}$ 53'35	1.34920 AU		14442 Aug 26 10:30	0° $\mathfrak{M}$	
asc. node	14441 Oct 04 08:09	24° $\mathfrak{L}$ 48'38		morning set	14442 Sep 09 19:35	23° $\mathfrak{M}$ 37'21	
					14442 Sep 13 08:38	0° $\mathfrak{L}$	
superior conj	14441 Oct 06 16:51	29° $\mathfrak{L}$ 36'32	0°21'53	max. Earth dist.	14442 Sep 13 09:08	0° $\mathfrak{L}$ 02'21	1.37069 AU
minimum elong	14441 Oct 06 15:39	29° $\mathfrak{L}$ 30'22	0°22'04				
	14441 Oct 06 21:26	0° $\mathfrak{M}$		superior conj	14442 Sep 20 03:26	12° $\mathfrak{L}$ 52'15	-0°09'43
evening rise	14441 Oct 14 06:41	15° $\mathfrak{M}$ 24'05		minimum elong	14442 Sep 20 04:03	12° $\mathfrak{L}$ 55'16	0°09'28
	14441 Oct 21 15:36	0° $\mathfrak{J}$		behind sun begin	14442 Sep 19 22:40	12° $\mathfrak{L}$ 28'58	
evening max el	14441 Nov 02 01:45	16° $\mathfrak{J}$ 25'13	20°44'20	behind sun end	14442 Sep 20 09:25	13° $\mathfrak{L}$ 21'37	
desc. node	14441 Nov 05 23:37	19° $\mathfrak{J}$ 38'53		asc. node	14442 Sep 21 04:45	14° $\mathfrak{L}$ 56'43	
retrograde	14441 Nov 13 10:18	22° $\mathfrak{J}$ 04'00		evening rise	14442 Sep 28 11:07	29° $\mathfrak{L}$ 32'26	
evening set	14441 Nov 15 19:48	21° $\mathfrak{J}$ 50'02			14442 Sep 28 16:35	0° $\mathfrak{M}$	
inferior conj	14441 Nov 24 17:39	17° $\mathfrak{J}$ 56'13	-5°12'08	evening max el	14442 Oct 15 11:34	27° $\mathfrak{M}$ 32'26	19°31'48
minimum elong	14441 Nov 24 08:15	18° $\mathfrak{J}$ 09'42	5°09'05		14442 Oct 18 08:32	0° $\mathfrak{J}$	
min. Earth dist.	14441 Nov 25 18:47	17° $\mathfrak{J}$ 20'08	0.54568 AU	desc. node	14442 Oct 23 20:58	2° $\mathfrak{J}$ 18'54	
morning rise	14441 Dec 02 20:45	14° $\mathfrak{J}$ 00'59		retrograde	14442 Oct 25 04:50	2° $\mathfrak{J}$ 24'09	
direct	14441 Dec 07 04:53	13° $\mathfrak{J}$ 20'40		evening set	14442 Oct 27 02:17	2° $\mathfrak{J}$ 13'53	
morning max el	14441 Dec 20 10:13	19° $\mathfrak{J}$ 46'17	23°19'13		14442 Nov 01 18:06	30° $\mathfrak{R}$ $\mathfrak{M}$	
	14441 Dec 28 21:35	0° $\mathfrak{Z}$		inferior conj	14442 Nov 04 18:56	28° $\mathfrak{M}$ 08'29	-3°40'11
asc. node	14441 Dec 31 08:35	3° $\mathfrak{Z}$ 45'30		minimum elong	14442 Nov 04 09:54	28° $\mathfrak{M}$ 22'57	3°36'16
morning set	14442 Jan 12 18:04	27° $\mathfrak{Z}$ 19'22		min. Earth dist.	14442 Nov 07 03:53	26° $\mathfrak{M}$ 37'34	0.55455 AU
	14442 Jan 14 00:02	0° $\approx$		morning rise	14442 Nov 12 15:30	23° $\mathfrak{M}$ 45'25	
				direct	14442 Nov 17 21:05	22° $\mathfrak{M}$ 44'04	
superior conj	14442 Jan 19 15:29	12° $\approx$ 14'02	1°31'25	morning max el	14442 Dec 01 19:44	29° $\mathfrak{M}$ 43'32	25°07'19
minimum elong	14442 Jan 19 17:02	12° $\approx$ 22'24	1°32'09		14442 Dec 02 02:36	0° $\mathfrak{J}$	
max. Earth dist.	14442 Jan 22 16:38	18° $\approx$ 43'56	1.33202 AU	asc. node	14442 Dec 18 05:43	22° $\mathfrak{J}$ 14'50	
evening rise	14442 Jan 27 11:05	28° $\approx$ 29'23			14442 Dec 22 09:42	0° $\mathfrak{Z}$	
	14442 Jan 28 05:27	0° $\mathfrak{H}$		morning set	14442 Dec 28 05:55	12° $\mathfrak{Z}$ 01'48	
desc. node	14442 Feb 01 23:17	8° $\mathfrak{H}$ 59'37					
	14442 Feb 14 15:52	0° $\mathfrak{Y}$		superior conj	14443 Jan 04 00:09	26° $\mathfrak{Z}$ 52'45	1°37'20
evening max el	14442 Mar 02 19:51	20° $\mathfrak{Y}$ 10'28	27°21'05	minimum elong	14443 Jan 04 00:40	26° $\mathfrak{Z}$ 55'31	1°38'18
retrograde	14442 Mar 16 10:21	27° $\mathfrak{Y}$ 39'32			14443 Jan 05 10:14	0° $\approx$	
evening set	14442 Mar 23 03:42	25° $\mathfrak{Y}$ 09'42		max. Earth dist.	14443 Jan 05 18:24	0° $\approx$ 44'42	1.31999 AU
min. Earth dist.	14442 Mar 27 00:06	21° $\mathfrak{Y}$ 37'43	0.64686 AU	evening rise	14443 Jan 11 06:23	12° $\approx$ 26'56	
inferior conj	14442 Mar 29 11:47	18° $\mathfrak{Y}$ 56'09	0°05'05	desc. node	14443 Jan 19 19:58	28° $\approx$ 57'26	
minimum elong	14442 Mar 29 11:38	18° $\mathfrak{Y}$ 56'32	0°04'47		14443 Jan 20 10:00	0° $\mathfrak{H}$	
transit middle	14442 Mar 29 11:38	18° $\mathfrak{Y}$ 56'32	0°04'47		14443 Feb 10 04:13	0° $\mathfrak{Y}$	
transit begin	14442 Mar 29 08:43	19° $\mathfrak{Y}$ 04'30		evening max el	14443 Feb 13 06:58	3° $\mathfrak{Y}$ 11'22	27°34'28
transit end	14442 Mar 29 14:33	18° $\mathfrak{Y}$ 48'36		retrograde	14443 Feb 27 04:06	10° $\mathfrak{Y}$ 37'30	
asc. node	14442 Mar 29 05:24	19° $\mathfrak{Y}$ 13'32		evening set	14443 Mar 06 01:02	8° $\mathfrak{Y}$ 17'19	
morning rise	14442 Apr 04 21:31	13° $\mathfrak{Y}$ 30'50		min. Earth dist.	14443 Mar 09 19:10	5° $\mathfrak{Y}$ 12'38	0.62690 AU
direct	14442 Apr 07 12:24	12° $\mathfrak{Y}$ 55'12		inferior conj	14443 Mar 12 17:09	2° $\mathfrak{Y}$ 23'10	-1°06'12
morning max el	14442 Apr 13 20:26	16° $\mathfrak{Y}$ 11'26	17°53'10	minimum elong	14443 Mar 12 19:23	2° $\mathfrak{Y}$ 17'46	1°05'13
	14442 Apr 23 21:47	0° $\mathfrak{B}$			14443 Mar 15 06:59	30° $\mathfrak{R}$ $\mathfrak{H}$	
morning set	14442 May 01 05:57	12° $\mathfrak{B}$ 06'36		asc. node	14443 Mar 16 02:52	29° $\mathfrak{H}$ 19'12	
desc. node	14442 May 01 01:36	11° $\mathfrak{B}$ 48'29		morning rise	14443 Mar 19 16:30	27° $\mathfrak{H}$ 14'08	
	14442 May 12 03:29	0° $\Pi$		direct	14443 Mar 21 23:39	26° $\mathfrak{H}$ 49'31	



	14443 Mar 28 09:41	0°♿		morning set	14444 Mar 26 19:22	8°♿15'15	
morning max el	14443 Mar 28 14:11	0°♿10'50	17°46'22	desc. node	14444 Apr 03 18:48	22°♿44'04	
morning set	14443 Apr 13 15:24	24°♿45'19					
	14443 Apr 16 15:36	0°♿		superior conj	14444 Apr 06 03:53	26°♿55'47	-0°19'02
desc. node	14443 Apr 17 22:15	2°♿12'49		minimum elong	14444 Apr 06 02:13	26°♿48'31	0°19'08
					14444 Apr 07 22:17	0°♿	
superior conj	14443 Apr 25 14:32	15°♿14'27	-0°58'09	max. Earth dist.	14444 Apr 13 16:11	9°♿42'11	1.42564 AU
minimum elong	14443 Apr 25 08:52	14°♿50'56	0°58'00	evening rise	14444 Apr 19 11:14	19°♿04'48	
max. Earth dist.	14443 May 02 03:03	25°♿52'31	1.44291 AU		14444 Apr 26 12:17	0°♿	
	14443 May 04 17:15	0°♿			14444 May 18 02:51	0°♿	
evening rise	14443 May 10 11:01	8°♿57'28		evening max el	14444 May 22 05:12	4°♿30'09	22°16'12
	14443 May 24 12:31	0°♿		asc. node	14444 May 28 21:14	9°♿30'00	
evening max el	14443 Jun 09 10:54	20°♿38'27	20°59'49	retrograde	14444 May 31 20:26	10°♿09'25	
asc. node	14443 Jun 12 00:10	22°♿57'07		evening set	14444 Jun 05 14:34	8°♿10'29	
retrograde	14443 Jun 17 22:45	25°♿33'54		inferior conj	14444 Jun 10 21:10	1°♿50'24	3°01'40
evening set	14443 Jun 22 05:47	23°♿50'50		minimum elong	14444 Jun 10 19:59	1°♿54'31	3°00'30
inferior conj	14443 Jun 27 11:34	17°♿40'19	3°10'25	min. Earth dist.	14444 Jun 10 18:58	1°♿58'05	0.69005 AU
minimum elong	14443 Jun 27 11:16	17°♿41'19	3°09'24		14444 Jun 12 05:08	30°♿♿	
min. Earth dist.	14443 Jun 27 22:28	17°♿02'27	0.68676 AU	morning rise	14444 Jun 16 01:14	25°♿37'25	
morning rise	14443 Jul 02 16:31	11°♿20'49		direct	14444 Jun 20 18:19	23°♿38'18	
direct	14443 Jul 07 22:07	9°♿03'39		morning max el	14444 Jun 30 00:41	29°♿03'26	21°55'53
desc. node	14443 Jul 14 22:10	12°♿08'05		desc. node	14444 Jun 30 19:24	29°♿51'22	
morning max el	14443 Jul 18 11:32	15°♿21'17	23°23'44		14444 Jun 30 22:42	0°♿	
	14443 Jul 30 11:27	0°♿			14444 Jul 23 03:28	0°♿	
	14443 Aug 19 09:21	0°♿		morning set	14444 Aug 01 15:04	14°♿43'33	
morning set	14443 Aug 22 05:31	4°♿42'04		max. Earth dist.	14444 Aug 07 08:41	24°♿03'57	1.41738 AU
max. Earth dist.	14443 Aug 26 06:59	11°♿37'34	1.39433 AU		14444 Aug 10 21:23	0°♿	
superior conj	14443 Sep 02 23:59	25°♿28'19	-0°44'39	superior conj	14444 Aug 15 02:15	7°♿15'51	-1°20'02
minimum elong	14443 Sep 03 03:17	25°♿43'38	0°44'17	minimum elong	14444 Aug 15 08:26	7°♿43'00	1°19'41
	14443 Sep 05 09:58	0°♿		asc. node	14444 Aug 24 21:51	25°♿00'52	
asc. node	14443 Sep 08 01:17	5°♿01'50		evening rise	14444 Aug 25 18:57	26°♿38'15	
evening rise	14443 Sep 12 08:24	13°♿19'59			14444 Aug 27 14:44	0°♿	
	14443 Sep 21 10:10	0°♿		evening max el	14444 Sep 10 18:48	22°♿05'08	18°11'50
evening max el	14443 Sep 28 10:33	9°♿28'07	18°41'16	retrograde	14444 Sep 17 22:43	25°♿44'06	
retrograde	14443 Oct 06 16:14	13°♿37'18		evening set	14444 Sep 20 02:54	25°♿24'30	
evening set	14443 Oct 08 14:13	13°♿24'36		desc. node	14444 Sep 26 15:54	21°♿17'59	
desc. node	14443 Oct 10 18:25	12°♿41'41		inferior conj	14444 Sep 27 10:06	20°♿38'49	-0°14'18
inferior conj	14443 Oct 16 15:38	9°♿00'13	-1°52'36	minimum elong	14444 Sep 27 09:36	20°♿39'54	0°13'50
minimum elong	14443 Oct 16 11:02	9°♿08'46	1°50'11	transit middle	14444 Sep 27 09:36	20°♿39'54	0°13'50
min. Earth dist.	14443 Oct 19 18:36	6°♿41'39	0.57110 AU	transit begin	14444 Sep 27 07:50	20°♿43'45	
morning rise	14443 Oct 24 04:30	4°♿00'13		transit end	14444 Sep 27 11:23	20°♿36'03	
direct	14443 Oct 30 03:39	2°♿32'43		min. Earth dist.	14444 Sep 30 16:53	17°♿49'06	0.59247 AU
morning max el	14443 Nov 13 09:32	9°♿58'36	26°38'42	morning rise	14444 Oct 04 12:57	15°♿04'16	
	14443 Nov 28 16:18	0°♿		direct	14444 Oct 10 23:51	13°♿09'54	
asc. node	14443 Dec 05 02:44	11°♿18'05		morning max el	14444 Oct 25 07:02	20°♿54'43	27°38'09
morning set	14443 Dec 12 16:09	26°♿35'11			14444 Nov 02 04:27	0°♿	
	14443 Dec 14 05:59	0°♿		asc. node	14444 Nov 20 23:39	0°♿46'09	
					14444 Nov 20 14:12	0°♿	
superior conj	14443 Dec 19 11:12	11°♿34'33	1°37'10	morning set	14444 Nov 25 22:59	10°♿55'00	
minimum elong	14443 Dec 19 10:38	11°♿31'25	1°38'11				
max. Earth dist.	14443 Dec 20 00:57	12°♿51'16	1.31298 AU	superior conj	14444 Dec 02 22:43	26°♿13'55	1°31'05
evening rise	14443 Dec 26 08:44	26°♿40'32		minimum elong	14444 Dec 02 21:13	26°♿05'35	1°32'00
	14443 Dec 27 22:52	0°♿		max. Earth dist.	14444 Dec 02 09:03	24°♿57'37	1.31125 AU
desc. node	14444 Jan 06 16:42	18°♿31'04			14444 Dec 04 15:09	0°♿	
	14444 Jan 13 21:03	0°♿		evening rise	14444 Dec 09 15:54	11°♿04'32	
evening max el	14444 Jan 26 13:35	15°♿31'07	27°15'02		14444 Dec 19 04:18	0°♿	
retrograde	14444 Feb 09 13:24	22°♿48'34		desc. node	14444 Dec 23 13:32	7°♿31'18	
evening set	14444 Feb 16 08:06	20°♿46'15		evening max el	14445 Jan 07 13:11	27°♿00'09	26°20'48
min. Earth dist.	14444 Feb 20 04:07	18°♿01'07	0.60508 AU		14445 Jan 11 01:53	0°♿	
inferior conj	14444 Feb 23 08:14	15°♿19'07	-2°27'58	retrograde	14445 Jan 21 12:16	4°♿06'09	
minimum elong	14444 Feb 23 13:38	15°♿07'35	2°25'29	evening set	14445 Jan 27 21:06	2°♿28'35	
morning rise	14444 Mar 01 22:26	10°♿29'00			14445 Jan 31 21:58	30°♿♿	
asc. node	14444 Mar 02 00:22	10°♿27'42		min. Earth dist.	14445 Feb 01 02:40	29°♿51'40	0.58331 AU
direct	14444 Mar 04 00:09	10°♿11'42		inferior conj	14445 Feb 04 05:20	27°♿33'55	-3°54'09
morning max el	14444 Mar 11 05:37	13°♿48'49	17°57'54	minimum elong	14445 Feb 04 13:42	27°♿18'25	3°50'47
	14444 Mar 22 06:08	0°♿		morning rise	14445 Feb 12 09:21	23°♿05'04	

direct	14445 Feb 14 09:38	22° $\approx$ 51'22		direct	14446 Jan 27 00:16	4° $\approx$ 38'04	
asc. node	14445 Feb 16 21:50	23° $\approx$ 13'43		asc. node	14446 Feb 03 19:14	7° $\approx$ 42'04	
morning max el	14445 Feb 22 14:55	26° $\approx$ 54'28	18°29'22	morning max el	14446 Feb 05 14:02	9° $\approx$ 16'31	19°22'49
	14445 Feb 25 08:50	0° $\text{H}$			14446 Feb 19 03:28	0° $\text{H}$	
morning set	14445 Mar 10 12:20	22° $\text{H}$ 20'01		morning set	14446 Feb 22 14:12	6° $\text{H}$ 47'20	
	14445 Mar 14 12:13	0° $\text{Y}$					
superior conj	14445 Mar 19 14:22	9° $\text{Y}$ 34'37	0°16'35	superior conj	14446 Mar 02 17:37	22° $\text{H}$ 58'57	0°46'12
minimum elong	14445 Mar 19 15:31	9° $\text{Y}$ 39'55	0°16'19	minimum elong	14446 Mar 02 20:05	23° $\text{H}$ 10'56	0°46'03
desc. node	14445 Mar 21 15:16	13° $\text{Y}$ 18'25		desc. node	14446 Mar 06 09:41	0° $\text{Y}$	
max. Earth dist.	14445 Mar 27 01:15	22° $\text{Y}$ 53'29	1.40452 AU	max. Earth dist.	14446 Mar 08 11:46	3° $\text{Y}$ 52'35	
evening rise	14445 Mar 31 07:34	0° $\text{B}$ 06'09		evening rise	14446 Mar 09 07:51	5° $\text{Y}$ 24'26	1.38179 AU
	14445 Mar 31 06:05	0° $\text{B}$			14446 Mar 13 00:54	12° $\text{Y}$ 01'26	
	14445 Apr 19 22:26	0° $\text{II}$			14446 Mar 23 22:48	0° $\text{B}$	
evening max el	14445 May 04 20:07	18° $\text{II}$ 22'57	23°37'14	evening max el	14446 Apr 15 04:44	0° $\text{II}$	
retrograde	14445 May 15 15:21	24° $\text{II}$ 43'45		retrograde	14446 Apr 17 09:39	2° $\text{II}$ 16'46	24°56'21
asc. node	14445 May 15 18:25	24° $\text{II}$ 43'41		asc. node	14446 Apr 29 06:31	9° $\text{II}$ 11'32	
evening set	14445 May 20 21:07	22° $\text{II}$ 30'42		evening set	14446 May 02 15:42	8° $\text{II}$ 22'32	
min. Earth dist.	14445 May 25 15:35	16° $\text{II}$ 55'11	0.68858 AU	min. Earth dist.	14446 May 04 23:53	6° $\text{II}$ 47'23	
inferior conj	14445 May 26 06:37	16° $\text{II}$ 03'38	2°42'34	inferior conj	14446 May 09 10:17	1° $\text{II}$ 48'22	0.68243 AU
minimum elong	14445 May 26 04:47	16° $\text{II}$ 09'57	2°41'13	minimum elong	14446 May 10 14:03	0° $\text{II}$ 16'46	2°13'04
morning rise	14445 May 31 12:24	9° $\text{II}$ 58'34			14446 May 10 11:54	0° $\text{II}$ 23'53	2°11'38
direct	14445 Jun 04 17:03	8° $\text{II}$ 19'40			14446 May 10 19:08	30° $\text{R}$ $\text{B}$	
morning max el	14445 Jun 12 19:23	12° $\text{II}$ 55'49	20°36'19	morning rise	14446 May 16 00:12	24° $\text{B}$ 20'47	
desc. node	14445 Jun 17 16:30	18° $\text{II}$ 27'31		direct	14446 May 19 16:58	23° $\text{B}$ 02'17	
	14445 Jun 26 04:41	0° $\text{E}$		morning max el	14446 May 26 21:32	26° $\text{B}$ 59'50	19°29'49
morning set	14445 Jul 12 02:18	23° $\text{E}$ 48'03			14446 May 29 15:55	0° $\text{II}$	
	14445 Jul 16 01:37	0° $\text{O}$		desc. node	14446 Jun 04 13:28	7° $\text{II}$ 42'42	
max. Earth dist.	14445 Jul 20 17:21	7° $\text{O}$ 24'23	1.43702 AU	greatest brilliancy	14446 Jun 08 12:36	13° $\text{II}$ 25'00	-0.7m
					14446 Jun 19 12:31	0° $\text{E}$	
superior conj	14445 Jul 27 06:01	18° $\text{O}$ 04'57	-1°50'57	morning set	14446 Jun 21 04:41	2° $\text{E}$ 34'00	
minimum elong	14445 Jul 27 13:27	18° $\text{O}$ 35'53	1°51'03	max. Earth dist.	14446 Jun 03 08:04	21° $\text{E}$ 26'10	1.45109 AU
	14445 Aug 03 06:43	0° $\text{np}$					
evening rise	14445 Aug 08 14:07	9° $\text{np}$ 14'59		superior conj	14446 Jul 07 10:19	27° $\text{E}$ 55'32	-2°10'28
asc. node	14445 Aug 11 18:24	14° $\text{np}$ 49'09		minimum elong	14446 Jul 07 14:31	28° $\text{E}$ 12'17	2°11'18
	14445 Aug 21 01:32	0° $\text{u}$			14446 Jul 08 17:27	0° $\text{O}$	
evening max el	14445 Aug 25 08:02	5° $\text{u}$ 12'32	18°02'11	evening rise	14446 Jul 21 12:44	20° $\text{O}$ 57'48	
retrograde	14445 Aug 31 21:13	8° $\text{u}$ 35'43			14446 Jul 26 23:01	0° $\text{np}$	
evening set	14445 Sep 03 09:18	8° $\text{u}$ 05'33		asc. node	14446 Jul 29 15:02	4° $\text{np}$ 22'01	
inferior conj	14445 Sep 09 23:54	3° $\text{u}$ 00'03	1°04'02	evening max el	14446 Aug 08 22:34	18° $\text{np}$ 40'56	18°11'09
minimum elong	14445 Sep 10 01:40	2° $\text{u}$ 55'37	1°03'21	retrograde	14446 Aug 15 07:09	22° $\text{np}$ 02'14	
min. Earth dist.	14445 Sep 13 00:26	0° $\text{u}$ 00'11	0.61540 AU	evening set	14446 Aug 18 03:40	21° $\text{np}$ 18'38	
	14445 Sep 13 00:30	30° $\text{R}$ $\text{np}$		inferior conj	14446 Aug 24 05:01	15° $\text{np}$ 55'54	2°01'05
desc. node	14445 Sep 13 13:26	29° $\text{np}$ 29'42		minimum elong	14446 Aug 24 07:26	15° $\text{np}$ 49'04	2°00'01
morning rise	14445 Sep 16 15:22	26° $\text{np}$ 59'24		min. Earth dist.	14446 Aug 26 17:57	13° $\text{np}$ 05'50	0.63735 AU
direct	14445 Sep 23 07:17	24° $\text{np}$ 42'09		morning rise	14446 Aug 30 09:26	9° $\text{np}$ 39'09	
	14445 Oct 04 14:42	0° $\text{u}$		desc. node	14446 Aug 31 10:58	8° $\text{np}$ 53'37	
morning max el	14445 Oct 07 11:44	2° $\text{u}$ 39'09	27°58'54	direct	14446 Sep 06 00:22	7° $\text{np}$ 06'21	
	14445 Oct 27 15:49	0° $\text{m}$		morning max el	14446 Sep 19 21:09	15° $\text{np}$ 06'43	27°41'46
asc. node	14445 Nov 07 20:26	20° $\text{m}$ 31'52			14446 Oct 02 01:23	0° $\text{u}$	
morning set	14445 Nov 10 00:29	24° $\text{m}$ 56'44			14446 Oct 20 08:01	0° $\text{m}$	
	14445 Nov 12 10:16	0° $\text{x}$		morning set	14446 Oct 24 18:16	8° $\text{m}$ 34'43	
max. Earth dist.	14445 Nov 15 14:56	6° $\text{x}$ 54'50	1.31489 AU	asc. node	14446 Oct 25 17:07	10° $\text{m}$ 29'30	
				max. Earth dist.	14446 Oct 29 14:43	18° $\text{m}$ 34'03	1.32402 AU
superior conj	14445 Nov 17 08:51	10° $\text{x}$ 45'49	1°19'09				
minimum elong	14445 Nov 17 06:44	10° $\text{x}$ 34'05	1°19'50	superior conj	14446 Nov 01 15:38	25° $\text{m}$ 04'45	1°01'22
evening rise	14445 Nov 24 01:56	25° $\text{x}$ 34'10		minimum elong	14446 Nov 01 13:20	24° $\text{m}$ 52'19	1°01'48
	14445 Nov 26 03:46	0° $\text{Z}$			14446 Nov 03 21:52	0° $\text{x}$	
desc. node	14445 Dec 10 10:29	25° $\text{Z}$ 45'52		evening rise	14446 Nov 08 12:59	10° $\text{x}$ 04'24	
	14445 Dec 13 11:29	0° $\approx$			14446 Nov 18 15:22	0° $\text{Z}$	
evening max el	14445 Dec 20 04:14	7° $\approx$ 37'22	24°56'27	desc. node	14446 Nov 27 07:35	12° $\text{Z}$ 57'25	
retrograde	14446 Jan 02 22:53	14° $\approx$ 31'08		evening max el	14446 Dec 01 13:53	17° $\text{Z}$ 39'30	23°15'16
evening set	14446 Jan 08 12:11	13° $\approx$ 22'22		retrograde	14446 Dec 14 20:47	24° $\text{Z}$ 15'28	
min. Earth dist.	14446 Jan 13 16:10	10° $\approx$ 37'51	0.56405 AU	evening set	14446 Dec 19 04:15	23° $\text{Z}$ 35'05	
inferior conj	14446 Jan 16 05:44	8° $\approx$ 59'07	-5°11'05	min. Earth dist.	14446 Dec 25 23:52	20° $\text{Z}$ 33'25	0.55027 AU
minimum elong	14446 Jan 16 14:18	8° $\approx$ 45'21	5°08'22	inferior conj	14446 Dec 27 10:13	19° $\text{Z}$ 33'45	-5°55'56
morning rise	14446 Jan 24 18:42	4° $\approx$ 52'02		minimum elong	14446 Dec 27 13:08	19° $\text{Z}$ 29'32	5°54'45
				morning rise	14447 Jan 04 23:35	15° $\text{Z}$ 43'01	

direct	14447 Jan 07 19:40	15°  23'51		min. Earth dist.	14447 Dec 07 05:50	29°  30'31	0.54465 AU
morning max el	14447 Jan 18 23:23	20°  44'47	20°39'29	morning rise	14447 Dec 15 09:40	25°  46'37	
asc. node	14447 Jan 21 16:35	23°  39'22		direct	14447 Dec 19 04:03	25°  15'43	
	14447 Jan 26 08:23	0°  ≈			14447 Dec 30 06:46	0°  ≈	
morning set	14447 Feb 06 21:40	21°  ≈26'35		morning max el	14447 Dec 31 18:28	1°  ≈19'58	22°16'59
	14447 Feb 11 00:32	0°  ≈		asc. node	14448 Jan 08 13:52	10°  ≈48'25	
					14448 Jan 19 08:56	0°  ≈	
superior conj	14447 Feb 14 09:12	6°  ≈55'27	1°09'04	morning set	14448 Jan 22 08:22	6°  ≈11'10	
minimum elong	14447 Feb 14 11:50	7°  ≈08'51	1°09'14				
max. Earth dist.	14447 Feb 19 15:43	17°  ≈23'59	1.35992 AU	superior conj	14448 Jan 29 09:34	21°  ≈14'17	1°25'08
desc. node	14447 Feb 23 08:17	24°  ≈22'07		minimum elong	14448 Jan 29 11:38	21°  ≈25'14	1°25'40
evening rise	14447 Feb 23 12:34	24°  ≈41'52		max. Earth dist.	14448 Feb 02 05:32	29°  ≈13'19	1.34102 AU
	14447 Feb 26 10:56	0°  ≈			14448 Feb 02 14:41	0°  ≈	
	14447 Mar 17 12:44	0°  ≈		evening rise	14448 Feb 06 15:08	7°  ≈58'50	
evening max el	14447 Mar 30 23:08	16°  ≈07'18	26°06'38	desc. node	14448 Feb 10 04:50	14°  ≈43'11	
retrograde	14447 Apr 12 17:00	23°  ≈24'58			14448 Feb 19 01:16	0°  ≈	
evening set	14447 Apr 18 21:08	20°  ≈54'03		evening max el	14448 Mar 12 12:50	29°  ≈47'42	27°00'32
asc. node	14447 Apr 19 13:04	20°  ≈19'21			14448 Mar 12 17:57	0°  ≈	
min. Earth dist.	14447 Apr 23 00:59	16°  ≈30'27	0.67174 AU	retrograde	14448 Mar 25 21:47	7°  ≈15'55	
inferior conj	14447 Apr 24 17:26	14°  ≈24'47	1°32'40	evening set	14448 Apr 01 10:56	4°  ≈44'00	
minimum elong	14447 Apr 24 15:29	14°  ≈30'53	1°31'22	asc. node	14448 Apr 05 10:31	0°  ≈51'21	
morning rise	14447 Apr 30 10:37	8°  ≈39'08		min. Earth dist.	14448 Apr 05 09:40	0°  ≈53'45	0.65692 AU
direct	14447 May 03 16:23	7°  ≈39'31			14448 Apr 06 04:38	30°  ≈R'Y	
morning max el	14447 May 10 06:49	11°  ≈11'28	18°39'01	inferior conj	14448 Apr 07 14:29	28°  ≈Y'22'23	0°40'36
desc. node	14447 May 22 10:21	27°  ≈8'26'04		minimum elong	14448 Apr 07 13:25	28°  ≈Y'25'26	0°39'48
	14447 May 24 02:31	0°  ≈		morning rise	14448 Apr 13 17:24	22°  ≈Y'48'49	
morning set	14447 May 31 19:14	11°  ≈II'59'07		direct	14448 Apr 16 13:18	22°  ≈Y'05'24	
	14447 Jun 12 08:04	0°  ≈		morning max el	14448 Apr 22 21:28	25°  ≈Y'24'14	18°04'56
max. Earth dist.	14447 Jun 16 02:34	5°  ≈52'59	1.45823 AU		14448 Apr 26 20:20	0°  ≈	
				desc. node	14448 May 08 07:07	17°  ≈8'29'46	
superior conj	14447 Jun 16 21:46	7°  ≈50'7'54	-2°11'54	morning set	14448 May 11 11:58	22°  ≈8'41'18	
minimum elong	14447 Jun 16 18:25	6°  ≈54'50	2°12'53		14448 May 16 00:28	0°  ≈	
	14447 Jul 01 10:09	0°  ≈		superior conj	14448 May 26 07:35	16°  ≈II'22'32	-1°53'26
evening rise	14447 Jul 02 10:55	1°  ≈038'33		minimum elong	14448 May 25 22:56	15°  ≈II'48'33	1°53'44
greatest brilliancy	14447 Jul 09 16:29	13°  ≈08'44	-0.9m	max. Earth dist.	14448 May 28 22:33	20°  ≈II'29'16	1.45795 AU
asc. node	14447 Jul 16 11:45	23°  ≈033'34			14448 Jun 04 01:12	0°  ≈	
	14447 Jul 21 07:13	0°  ≈		evening rise	14448 Jun 11 10:12	11°  ≈52'4'40	
evening max el	14447 Jul 23 11:21	2°  ≈07'22'45	18°37'55		14448 Jun 23 14:09	0°  ≈	
retrograde	14447 Jul 30 00:20	5°  ≈07'55'16		greatest brilliancy	14448 Jun 23 23:26	0°  ≈034'37	-0.7m
evening set	14447 Aug 02 05:45	4°  ≈07'56'05		asc. node	14448 Jul 02 08:35	12°  ≈031'54'3	
	14447 Aug 07 07:52	30°  ≈R'0		evening max el	14448 Jul 05 19:58	16°  ≈031'16'16	19°21'30
inferior conj	14447 Aug 07 21:31	29°  ≈018'17	2°39'15	retrograde	14448 Jul 12 21:34	20°  ≈030'7'29	
minimum elong	14447 Aug 07 23:37	29°  ≈011'50	2°38'11	evening set	14448 Jul 16 12:28	18°  ≈030'51'22	
min. Earth dist.	14447 Aug 09 20:37	26°  ≈025'4'04	0.65653 AU	inferior conj	14448 Jul 21 22:03	12°  ≈030'59'55	3°01'33
morning rise	14447 Aug 13 16:25	22°  ≈025'4'12		minimum elong	14448 Jul 21 23:19	12°  ≈030'55'44	3°00'34
desc. node	14447 Aug 18 08:29	20°  ≈025'53		min. Earth dist.	14448 Jul 23 06:46	11°  ≈030'12'42	0.67190 AU
direct	14447 Aug 20 01:41	20°  ≈021'4'58		morning rise	14448 Jul 27 09:36	6°  ≈034'49	
morning max el	14447 Sep 02 08:24	28°  ≈025'46	26°52'52	direct	14448 Aug 02 09:45	3°  ≈035'8'25	
	14447 Sep 04 04:01	0°  ≈		desc. node	14448 Aug 04 05:58	4°  ≈031'1'16	
	14447 Sep 25 19:21	0°  ≈		morning max el	14448 Aug 14 19:21	11°  ≈032'3'33	25°40'47
morning set	14447 Oct 08 01:32	21°  ≈034'2'21			14448 Aug 29 16:32	0°  ≈	
max. Earth dist.	14447 Oct 12 05:13	29°  ≈035'1'32	1.33854 AU		14448 Sep 17 10:56	0°  ≈	
	14447 Oct 12 06:54	0°  ≈		morning set	14448 Sep 19 18:33	4°  ≈035'9'55	
asc. node	14447 Oct 12 13:45	0°  ≈		max. Earth dist.	14448 Sep 23 09:48	10°  ≈035'5'31	1.35795 AU
				asc. node	14448 Sep 28 10:20	20°  ≈034'2'22	
superior conj	14447 Oct 16 16:51	9°  ≈035'1'16	0°37'53	superior conj	14448 Sep 29 09:42	22°  ≈039'3'32	0°09'02
minimum elong	14447 Oct 16 15:01	8°  ≈035'5'39	0°38'07	minimum elong	14448 Sep 29 09:10	22°  ≈036'4'8	0°09'13
evening rise	14447 Oct 23 23:10	24°  ≈030'43		behind sun begin	14448 Sep 29 04:02	22°  ≈031'0'59	
	14447 Oct 26 14:20	0°  ≈		behind sun end	14448 Sep 29 14:18	23°  ≈032'0'23'9	
evening max el	14447 Nov 13 03:19	27°  ≈034'3'55	21°35'25		14448 Oct 03 00:09	0°  ≈	
desc. node	14447 Nov 14 04:48	28°  ≈034'3'59		evening rise	14448 Oct 07 06:21	8°  ≈034'7'04	
	14447 Nov 15 16:52	0°  ≈			14448 Oct 18 15:39	0°  ≈	
retrograde	14447 Nov 25 08:49	3°  ≈034'7'26		evening max el	14448 Oct 25 04:52	8°  ≈032'3'21	20°10'49
evening set	14447 Nov 28 08:00	3°  ≈032'7'27		desc. node	14448 Oct 31 02:08	12°  ≈033'8'43	
	14447 Dec 06 08:46	30°  ≈R'0		retrograde	14448 Nov 04 20:38	13°  ≈034'1'35	
inferior conj	14447 Dec 07 02:36	29°  ≈035'0'33	-5°45'32				
minimum elong	14447 Dec 06 20:28	29°  ≈034'3'38	5°43'45				

evening set	14448 Nov 06 23:09	13° $\text{♁}$ 30'08		inferior conj	14449 Oct 27 05:15	19° $\text{♁}$ 59'37	-2°54'34
inferior conj	14448 Nov 15 20:31	9° $\text{♁}$ 33'05	-4°37'02	minimum elong	14449 Oct 26 21:55	20° $\text{♁}$ 12'05	2°51'04
minimum elong	14448 Nov 15 10:24	9° $\text{♁}$ 48'06	4°33'17	min. Earth dist.	14449 Oct 29 23:39	18° $\text{♁}$ 07'11	0.56092 AU
min. Earth dist.	14448 Nov 17 12:50	8° $\text{♁}$ 33'04	0.54843 AU	morning rise	14449 Nov 03 22:53	15° $\text{♁}$ 21'34	
morning rise	14448 Nov 23 20:47	5° $\text{♁}$ 27'54		direct	14449 Nov 09 12:43	14° $\text{♁}$ 09'37	
direct	14448 Nov 28 14:44	4° $\text{♁}$ 39'01		morning max el	14449 Nov 23 15:00	21° $\text{♁}$ 20'11	25°49'20
morning max el	14448 Dec 12 04:34	11° $\text{♁}$ 20'06	24°05'59		14449 Dec 01 04:11	0° $\text{♁}$	
asc. node	14448 Dec 25 11:02	28° $\text{♁}$ 52'12		asc. node	14449 Dec 12 08:06	17° $\text{♁}$ 36'58	
	14448 Dec 26 03:03	0° $\text{♁}$			14449 Dec 18 16:24	0° $\text{♁}$	
morning set	14449 Jan 05 20:18	20° $\text{♁}$ 55'22		morning set	14449 Dec 21 07:39	5° $\text{♁}$ 34'08	
	14449 Jan 10 00:26	0° $\text{♁}$					
				superior conj	14449 Dec 28 01:46	20° $\text{♁}$ 27'19	1°37'59
superior conj	14449 Jan 12 15:53	5° $\text{♁}$ 47'12	1°34'41	minimum elong	14449 Dec 28 01:48	20° $\text{♁}$ 27'33	1°39'00
minimum elong	14449 Jan 12 17:00	5° $\text{♁}$ 53'19	1°35'31	max. Earth dist.	14449 Dec 29 07:41	23° $\text{♁}$ 13'04	1.31641 AU
max. Earth dist.	14449 Jan 15 03:18	11° $\text{♁}$ 08'31	1.32631 AU		14450 Jan 01 10:08	0° $\text{♁}$	
evening rise	14449 Jan 20 05:11	21° $\text{♁}$ 43'30		evening rise	14450 Jan 04 03:46	5° $\text{♁}$ 48'17	
	14449 Jan 24 10:42	0° $\text{♁}$		desc. node	14450 Jan 13 22:10	24° $\text{♁}$ 39'24	
desc. node	14449 Jan 27 01:28	4° $\text{♁}$ 51'04			14450 Jan 17 00:53	0° $\text{♁}$	
	14449 Feb 11 21:30	0° $\text{♁}$		evening max el	14450 Feb 05 11:23	25° $\text{♁}$ 52'21	27°30'33
evening max el	14449 Feb 23 01:43	13° $\text{♁}$ 07'25	27°30'41		14450 Feb 10 11:54	0° $\text{♁}$	
retrograde	14449 Mar 08 19:44	20° $\text{♁}$ 35'44		retrograde	14450 Feb 19 09:43	3° $\text{♁}$ 14'25	
evening set	14449 Mar 15 15:02	18° $\text{♁}$ 09'26		evening set	14450 Feb 26 06:39	1° $\text{♁}$ 00'59	
min. Earth dist.	14449 Mar 19 10:16	14° $\text{♁}$ 49'29	0.63861 AU		14450 Feb 27 17:37	30° $\text{♁}$	
inferior conj	14449 Mar 22 02:31	12° $\text{♁}$ 03'08	-0°23'43	min. Earth dist.	14450 Mar 02 01:01	28° $\text{♁}$ 05'53	0.61773 AU
minimum elong	14449 Mar 22 03:15	12° $\text{♁}$ 01'12	0°23'31	inferior conj	14450 Mar 05 02:15	25° $\text{♁}$ 17'52	-1°39'51
asc. node	14449 Mar 23 08:00	10° $\text{♁}$ 47'41		minimum elong	14450 Mar 05 05:45	25° $\text{♁}$ 09'47	1°38'13
morning rise	14449 Mar 28 17:45	6° $\text{♁}$ 44'03		asc. node	14450 Mar 10 05:30	21° $\text{♁}$ 13'23	
direct	14449 Mar 31 05:09	6° $\text{♁}$ 13'31		morning rise	14450 Mar 12 07:49	20° $\text{♁}$ 16'24	
morning max el	14449 Apr 06 14:56	9° $\text{♁}$ 30'45	17°48'05	direct	14450 Mar 14 12:29	19° $\text{♁}$ 55'13	
	14449 Apr 20 13:27	0° $\text{♁}$		morning max el	14450 Mar 21 08:05	23° $\text{♁}$ 21'42	17°49'00
morning set	14449 Apr 23 08:04	4° $\text{♁}$ 42'33			14450 Mar 26 14:52	0° $\text{♁}$	
desc. node	14449 Apr 25 03:47	7° $\text{♁}$ 48'00		morning set	14450 Apr 06 02:06	17° $\text{♁}$ 45'06	
				desc. node	14450 Apr 12 00:21	28° $\text{♁}$ 15'27	
					14450 Apr 13 00:17	0° $\text{♁}$	
superior conj	14449 May 06 08:09	26° $\text{♁}$ 21'32	-1°20'23				
minimum elong	14449 May 06 00:20	25° $\text{♁}$ 49'54	1°20'14	superior conj	14450 Apr 17 07:49	7° $\text{♁}$ 25'03	-0°41'22
	14449 May 08 14:22	0° $\text{♁}$		minimum elong	14450 Apr 17 03:55	7° $\text{♁}$ 08'32	0°41'19
max. Earth dist.	14449 May 11 17:59	5° $\text{♁}$ 01'14	1.45033 AU	max. Earth dist.	14450 Apr 24 10:17	19° $\text{♁}$ 11'34	1.43616 AU
evening rise	14449 May 21 21:38	20° $\text{♁}$ 48'33			14450 May 01 05:29	0° $\text{♁}$	
	14449 May 27 22:58	0° $\text{♁}$		evening rise	14450 May 01 13:15	0° $\text{♁}$ 30'16	
	14449 Jun 18 22:01	0° $\text{♁}$			14450 May 21 13:13	0° $\text{♁}$	
evening max el	14449 Jun 18 22:59	0° $\text{♁}$ 02'25	20°20'13	evening max el	14450 Jun 01 20:03	13° $\text{♁}$ 53'02	21°31'19
asc. node	14449 Jun 19 05:32	0° $\text{♁}$ 18'39		asc. node	14450 Jun 06 02:35	17° $\text{♁}$ 28'34	
retrograde	14449 Jun 26 20:26	4° $\text{♁}$ 33'25		retrograde	14450 Jun 10 19:02	19° $\text{♁}$ 06'42	
evening set	14449 Jun 30 21:28	2° $\text{♁}$ 59'56		evening set	14450 Jun 15 06:50	17° $\text{♁}$ 16'27	
	14449 Jul 03 20:02	30° $\text{♁}$		inferior conj	14450 Jun 20 12:40	11° $\text{♁}$ 01'34	3°07'59
inferior conj	14449 Jul 06 03:53	26° $\text{♁}$ 56'02	3°10'32	minimum elong	14450 Jun 20 11:59	11° $\text{♁}$ 03'57	3°06'54
minimum elong	14449 Jul 06 04:09	26° $\text{♁}$ 55'05	3°09'34	min. Earth dist.	14450 Jun 20 17:51	10° $\text{♁}$ 43'26	0.68878 AU
min. Earth dist.	14449 Jul 06 22:33	25° $\text{♁}$ 52'11	0.68275 AU	morning rise	14450 Jun 25 16:57	4° $\text{♁}$ 44'52	
morning rise	14449 Jul 11 10:32	20° $\text{♁}$ 33'56		direct	14450 Jun 30 17:13	2° $\text{♁}$ 35'12	
direct	14449 Jul 16 23:16	18° $\text{♁}$ 08'10		desc. node	14450 Jul 09 00:36	6° $\text{♁}$ 52'55	
desc. node	14449 Jul 22 03:20	19° $\text{♁}$ 49'13		morning max el	14450 Jul 10 17:19	8° $\text{♁}$ 30'16	22°45'50
morning max el	14449 Jul 28 05:48	24° $\text{♁}$ 52'52	24°15'16		14450 Jul 27 13:00	0° $\text{♁}$	
	14449 Aug 01 20:44	0° $\text{♁}$		morning set	14450 Aug 13 16:55	26° $\text{♁}$ 26'07	
	14449 Aug 23 03:26	0° $\text{♁}$			14450 Aug 15 20:39	0° $\text{♁}$	
morning set	14449 Sep 01 17:05	15° $\text{♁}$ 47'50		max. Earth dist.	14450 Aug 18 08:06	4° $\text{♁}$ 10'24	1.40443 AU
max. Earth dist.	14449 Sep 05 08:42	22° $\text{♁}$ 12'55	1.38076 AU				
	14449 Sep 09 14:57	0° $\text{♁}$		superior conj	14450 Aug 26 04:11	17° $\text{♁}$ 56'28	-0°59'50
superior conj	14449 Sep 12 14:51	5° $\text{♁}$ 39'52	-0°24'14	minimum elong	14450 Aug 26 08:45	18° $\text{♁}$ 17'12	0°59'26
minimum elong	14449 Sep 12 16:31	5° $\text{♁}$ 47'51	0°23'56		14450 Sep 01 16:16	0° $\text{♁}$	
asc. node	14449 Sep 15 06:53	10° $\text{♁}$ 49'41		asc. node	14450 Sep 02 03:27	0° $\text{♁}$ 52'50	
evening rise	14449 Sep 21 08:08	22° $\text{♁}$ 47'36		evening rise	14450 Sep 05 01:22	6° $\text{♁}$ 24'20	
	14449 Sep 25 00:30	0° $\text{♁}$			14450 Sep 19 02:34	0° $\text{♁}$	
evening max el	14449 Oct 07 20:40	19° $\text{♁}$ 51'27	19°07'29	evening max el	14450 Sep 21 00:03	2° $\text{♁}$ 05'48	18°26'08
retrograde	14449 Oct 16 21:30	24° $\text{♁}$ 23'38		retrograde	14450 Sep 28 17:34	6° $\text{♁}$ 00'49	
desc. node	14449 Oct 17 23:31	24° $\text{♁}$ 19'57		evening set	14450 Sep 30 17:43	5° $\text{♁}$ 45'44	
evening set	14449 Oct 18 18:20	24° $\text{♁}$ 12'49		desc. node	14450 Oct 04 20:58	3° $\text{♁}$ 51'14	

inferior conj	14450 Oct 08 11:23	1°♌11'55	-1°08'50	retrograde	14451 Sep 11 07:27	18°♊27'35	
minimum elong	14450 Oct 08 08:43	1°♌17'14	1°07'18	evening set	14451 Sep 13 14:44	18°♊04'03	
	14450 Oct 09 23:18	30°♋♊		inferior conj	14451 Sep 20 14:33	13°♊09'52	0°21'34
min. Earth dist.	14450 Oct 11 17:18	28°♊37'51	0.57980 AU	minimum elong	14451 Sep 20 15:15	13°♊08'15	0°21'25
morning rise	14450 Oct 15 20:13	25°♊56'14		desc. node	14451 Sep 21 18:28	12°♊04'59	
direct	14450 Oct 22 00:55	24°♊17'27		min. Earth dist.	14451 Sep 23 19:41	10°♊12'55	0.60213 AU
	14450 Nov 03 07:19	0°♌		morning rise	14451 Sep 27 12:34	7°♊22'39	
morning max el	14450 Nov 05 08:13	1°♌52'06	27°08'35	direct	14451 Oct 04 02:17	5°♊17'39	
	14450 Nov 25 12:01	0°♌		morning max el	14451 Oct 18 09:11	13°♊09'34	27°51'47
asc. node	14450 Nov 29 05:02	6°♌52'01			14451 Oct 31 19:39	0°♌	
morning set	14450 Dec 05 16:42	20°♌02'59		asc. node	14451 Nov 16 01:53	26°♌28'20	
	14450 Dec 10 05:54	0°♌			14451 Nov 17 20:01	0°♌	
				morning set	14451 Nov 19 21:33	4°♌16'02	
superior conj	14450 Dec 12 13:15	5°♌09'05	1°35'18	max. Earth dist.	14451 Nov 25 23:02	17°♌24'56	1.31211 AU
minimum elong	14450 Dec 12 12:16	5°♌03'36	1°36'18				
max. Earth dist.	14450 Dec 12 15:30	5°♌21'43	1.31160 AU	superior conj	14451 Nov 27 00:25	19°♌46'07	1°26'44
evening rise	14450 Dec 19 08:26	20°♌07'11		minimum elong	14451 Nov 26 22:37	19°♌36'05	1°27'34
	14450 Dec 24 03:38	0°♌			14451 Dec 01 14:48	0°♌	
desc. node	14450 Dec 31 18:57	14°♌00'31		evening rise	14451 Dec 03 17:03	4°♌34'04	
	14451 Jan 11 14:01	0°♌			14451 Dec 16 23:09	0°♌	
evening max el	14451 Jan 18 15:07	7°♌50'45	26°56'02	desc. node	14451 Dec 18 15:51	2°♌43'10	
retrograde	14451 Feb 01 14:43	15°♌03'45		evening max el	14451 Dec 31 10:50	18°♌56'14	25°47'54
evening set	14451 Feb 08 06:31	13°♌10'50		retrograde	14452 Jan 14 09:01	25°♌58'07	
min. Earth dist.	14451 Feb 12 05:13	10°♌31'11	0.59569 AU	evening set	14452 Jan 20 10:39	24°♌32'27	
inferior conj	14451 Feb 15 10:04	7°♌57'17	-3°04'34	min. Earth dist.	14452 Jan 24 23:43	21°♌54'20	0.57462 AU
minimum elong	14451 Feb 15 16:52	7°♌43'37	3°01'35	inferior conj	14452 Jan 27 22:31	19°♌51'19	-4°29'06
morning rise	14451 Feb 23 06:31	3°♌16'21		minimum elong	14452 Jan 28 07:31	19°♌35'38	4°25'48
direct	14451 Feb 25 07:05	3°♌01'01		morning rise	14452 Feb 05 07:17	15°♌32'07	
asc. node	14451 Feb 25 02:56	3°♌01'08		direct	14452 Feb 07 08:35	15°♌18'57	
morning max el	14451 Mar 04 21:27	6°♌47'33	18°08'48	asc. node	14452 Feb 12 00:21	16°♌31'01	
	14451 Mar 19 16:38	0°♌		morning max el	14452 Feb 16 03:00	19°♌36'14	18°49'20
morning set	14451 Mar 20 12:10	1°♌31'15			14452 Feb 23 20:35	0°♌	
desc. node	14451 Mar 29 20:53	18°♌48'23		morning set	14452 Mar 03 09:20	15°♌46'22	
					14452 Mar 10 16:55	0°♌	
superior conj	14451 Mar 30 06:43	19°♌32'24	-0°03'20	superior conj	14452 Mar 12 00:53	2°♌31'53	0°29'56
minimum elong	14451 Mar 30 06:26	19°♌31'09	0°03'31	minimum elong	14452 Mar 12 02:46	2°♌40'45	0°29'42
behind sun begin	14451 Mar 29 22:56	18°♌57'36		desc. node	14452 Mar 15 17:23	9°♌22'56	
behind sun end	14451 Mar 30 13:55	20°♌04'36		max. Earth dist.	14452 Mar 19 04:34	15°♌36'03	1.39485 AU
	14451 Apr 05 06:28	0°♌		evening rise	14452 Mar 23 02:54	22°♌23'41	
max. Earth dist.	14451 Apr 06 21:31	2°♌45'08	1.41696 AU		14452 Mar 27 17:05	0°♌	
evening rise	14451 Apr 11 21:29	10°♌58'59			14452 Apr 17 03:43	0°♌	
	14451 Apr 24 05:18	0°♌		evening max el	14452 Apr 27 02:28	11°♌36'51	24°11'38
evening max el	14451 May 15 12:26	27°♌43'51	22°50'25	retrograde	14452 May 08 09:24	18°♌14'00	
	14451 May 17 23:08	0°♌		asc. node	14452 May 09 20:55	18°♌04'23	
asc. node	14451 May 23 23:42	3°♌29'31		evening set	14452 May 13 20:00	15°♌55'55	
retrograde	14451 May 25 15:47	3°♌42'01		min. Earth dist.	14452 May 18 10:51	10°♌35'45	0.68643 AU
evening set	14451 May 30 14:52	1°♌36'35		inferior conj	14452 May 19 07:16	9°♌26'37	2°31'23
	14451 Jun 01 05:54	30°♋♌		minimum elong	14452 May 19 05:15	9°♌33'29	2°29'58
inferior conj	14451 Jun 04 22:25	25°♌12'55	2°54'50	morning rise	14452 May 24 14:33	3°♌25'02	
minimum elong	14451 Jun 04 20:56	25°♌18'06	2°53'35	direct	14452 May 28 14:00	1°♌54'55	
min. Earth dist.	14451 Jun 04 14:40	25°♌39'51	0.68997 AU	morning max el	14452 Jun 05 06:20	6°♌13'40	20°06'13
morning rise	14451 Jun 10 02:53	19°♌03'07		desc. node	14452 Jun 11 18:50	13°♌54'23	
direct	14451 Jun 14 14:31	17°♌12'42			14452 Jun 23 02:06	0°♌	
morning max el	14451 Jun 23 08:36	22°♌16'29	21°20'42	morning set	14452 Jul 02 21:17	14°♌50'48	
desc. node	14451 Jun 25 21:46	25°♌00'14			14452 Jul 12 14:01	0°♌	
	14451 Jun 30 00:17	0°♌		max. Earth dist.	14452 Jul 12 23:19	0°♌37'00	1.44369 AU
morning set	14451 Jul 20 19:27	0°♌					
	14451 Jul 24 16:11	6°♌00'59		superior conj	14452 Jul 18 14:52	9°♌42'54	-2°01'04
max. Earth dist.	14451 Jul 31 12:24	16°♌59'11	1.42622 AU	minimum elong	14452 Jul 18 21:37	10°♌10'25	2°01'30
					14452 Jul 30 17:24	0°♌	
superior conj	14451 Aug 07 21:14	29°♌19'15	-1°34'05	evening rise	14452 Jul 31 17:05	1°♌41'30	
minimum elong	14451 Aug 08 04:18	29°♌49'36	1°33'51	asc. node	14452 Aug 05 20:38	10°♌30'12	
	14451 Aug 08 06:44	0°♌		evening max el	14452 Aug 18 01:12	28°♌14'45	18°03'52
evening rise	14451 Aug 19 06:00	19°♌26'21			14452 Aug 20 02:35	0°♌	
asc. node	14451 Aug 20 00:01	20°♌47'41					
	14451 Aug 25 03:51	0°♌		retrograde	14452 Aug 24 11:14	1°♌35'16	
evening max el	14451 Sep 04 10:53	14°♌56'46	18°05'24	evening set	14452 Aug 27 02:52	0°♌59'45	

	14452 Aug 28 20:49	30° $\mathbb{R}$ $\mathbb{M}$			14453 Jul 23 18:43	0° $\mathbb{M}$	
inferior conj	14452 Sep 02 11:24	25° $\mathbb{M}$ 46'59	1°30'40	evening max el	14453 Aug 01 15:23	11° $\mathbb{M}$ 49'44	18°20'30
minimum elong	14452 Sep 02 13:37	25° $\mathbb{M}$ 41'10	1°29'45	retrograde	14453 Aug 08 00:36	15° $\mathbb{M}$ 13'51	
min. Earth dist.	14452 Sep 05 07:36	22° $\mathbb{M}$ 48'49	0.62497 AU	evening set	14453 Aug 11 00:58	14° $\mathbb{M}$ 23'40	
desc. node	14452 Sep 07 16:00	20° $\mathbb{M}$ 37'25		inferior conj	14453 Aug 16 21:48	8° $\mathbb{M}$ 54'21	2°19'21
morning rise	14452 Sep 08 22:04	19° $\mathbb{M}$ 38'26		minimum elong	14453 Aug 17 00:10	8° $\mathbb{M}$ 47'23	2°18'16
direct	14452 Sep 15 14:26	17° $\mathbb{M}$ 13'10		min. Earth dist.	14453 Aug 19 04:58	6° $\mathbb{M}$ 13'50	0.64595 AU
morning max el	14452 Sep 29 16:06	25° $\mathbb{M}$ 13'10	27°55'52	morning rise	14453 Aug 22 21:58	2° $\mathbb{M}$ 33'53	
	14452 Oct 04 01:28	0° $\mathbb{L}$		desc. node	14453 Aug 25 13:32	0° $\mathbb{M}$ 51'47	
	14452 Oct 24 07:19	0° $\mathbb{M}$			14453 Aug 28 13:40	30° $\mathbb{R}$ $\mathbb{L}$	
asc. node	14452 Nov 01 22:39	16° $\mathbb{M}$ 19'49		direct	14453 Aug 29 11:07	29° $\mathbb{L}$ 57'15	
morning set	14452 Nov 02 20:05	18° $\mathbb{M}$ 08'29			14453 Aug 30 08:55	0° $\mathbb{M}$	
max. Earth dist.	14452 Nov 08 02:36	29° $\mathbb{M}$ 14'29	1.31812 AU	morning max el	14453 Sep 12 02:24	7° $\mathbb{M}$ 54'26	27°24'24
	14452 Nov 08 11:00	0° $\mathbb{L}$			14453 Sep 29 05:25	0° $\mathbb{L}$	
					14453 Oct 16 14:31	0° $\mathbb{M}$	
superior conj	14452 Nov 10 09:25	4° $\mathbb{L}$ 13'31	1°12'20	morning set	14453 Oct 17 09:47	1° $\mathbb{M}$ 34'05	
minimum elong	14452 Nov 10 07:10	4° $\mathbb{L}$ 01'07	1°12'54	asc. node	14453 Oct 19 19:20	6° $\mathbb{M}$ 21'00	
evening rise	14452 Nov 17 03:45	19° $\mathbb{L}$ 04'36		max. Earth dist.	14453 Oct 21 22:43	10° $\mathbb{M}$ 44'12	1.32958 AU
	14452 Nov 22 09:46	0° $\mathbb{L}$					
desc. node	14452 Dec 04 12:52	20° $\mathbb{L}$ 33'15		superior conj	14453 Oct 25 14:10	18° $\mathbb{M}$ 25'25	0°52'07
evening max el	14452 Dec 11 23:03	29° $\mathbb{L}$ 15'50	24°14'24	minimum elong	14453 Oct 25 11:58	18° $\mathbb{M}$ 13'42	0°52'27
	14452 Dec 12 17:59	0° $\mathbb{M}$			14453 Oct 30 22:50	0° $\mathbb{L}$	
retrograde	14452 Dec 25 14:14	6° $\mathbb{M}$ 02'47		evening rise	14453 Nov 01 14:41	3° $\mathbb{L}$ 33'56	
evening set	14452 Dec 30 15:36	5° $\mathbb{M}$ 06'54			14453 Nov 15 20:28	0° $\mathbb{L}$	
min. Earth dist.	14453 Jan 05 10:40	2° $\mathbb{M}$ 12'57	0.55739 AU	desc. node	14453 Nov 21 10:01	7° $\mathbb{L}$ 11'52	
inferior conj	14453 Jan 07 14:04	0° $\mathbb{M}$ 54'30	-5°35'36	evening max el	14453 Nov 23 09:14	9° $\mathbb{L}$ 14'51	22°31'39
minimum elong	14453 Jan 07 21:01	0° $\mathbb{M}$ 43'54	5°33'35	retrograde	14453 Dec 06 06:42	15° $\mathbb{L}$ 38'17	
	14453 Jan 09 02:08	30° $\mathbb{R}$ $\mathbb{L}$		evening set	14453 Dec 10 00:12	15° $\mathbb{L}$ 07'51	
morning rise	14453 Jan 16 04:17	26° $\mathbb{L}$ 55'00		min. Earth dist.	14453 Dec 17 17:02	11° $\mathbb{L}$ 39'14	0.54684 AU
direct	14453 Jan 18 14:45	26° $\mathbb{L}$ 39'30		inferior conj	14453 Dec 18 12:06	11° $\mathbb{L}$ 12'23	-5°59'05
	14453 Jan 27 01:03	0° $\mathbb{M}$		minimum elong	14453 Dec 18 11:07	11° $\mathbb{L}$ 13'47	5°58'01
asc. node	14453 Jan 28 21:44	1° $\mathbb{M}$ 38'52		morning rise	14453 Dec 26 23:14	7° $\mathbb{L}$ 24'51	
morning max el	14453 Jan 28 20:34	1° $\mathbb{M}$ 36'01	19°52'30	direct	14453 Dec 30 04:30	7° $\mathbb{L}$ 01'21	
	14453 Feb 15 10:04	0° $\mathbb{L}$		morning max el	14454 Jan 10 23:30	12° $\mathbb{L}$ 40'41	21°18'41
morning set	14453 Feb 15 13:55	0° $\mathbb{L}$ 19'29		asc. node	14454 Jan 15 19:04	18° $\mathbb{L}$ 09'05	
					14454 Jan 23 08:01	0° $\mathbb{M}$	
superior conj	14453 Feb 23 09:50	16° $\mathbb{L}$ 10'47	0°56'45	morning set	14454 Jan 30 23:06	15° $\mathbb{M}$ 02'36	
minimum elong	14453 Feb 23 12:29	16° $\mathbb{L}$ 23'56	0°56'42				
max. Earth dist.	14453 Mar 01 11:03	27° $\mathbb{L}$ 50'59	1.37228 AU	superior conj	14454 Feb 07 05:36	0° $\mathbb{L}$ 18'23	1°16'42
desc. node	14453 Mar 02 13:53	29° $\mathbb{L}$ 55'24		minimum elong	14454 Feb 07 08:03	0° $\mathbb{L}$ 31'07	1°17'01
	14453 Mar 02 14:53	0° $\mathbb{Y}$			14454 Feb 07 02:03	0° $\mathbb{L}$	
evening rise	14453 Mar 05 04:29	4° $\mathbb{Y}$ 39'25		max. Earth dist.	14454 Feb 11 21:31	9° $\mathbb{L}$ 46'21	1.35150 AU
	14453 Mar 20 16:40	0° $\mathbb{L}$		evening rise	14454 Feb 15 23:01	17° $\mathbb{L}$ 37'11	
evening max el	14453 Apr 09 16:04	25° $\mathbb{L}$ 30'21	25°27'57	desc. node	14454 Feb 17 10:26	20° $\mathbb{L}$ 22'15	
	14453 Apr 14 23:51	0° $\mathbb{L}$			14454 Feb 22 20:15	0° $\mathbb{Y}$	
retrograde	14453 Apr 21 22:37	2° $\mathbb{L}$ 36'00			14454 Mar 14 23:20	0° $\mathbb{L}$	
asc. node	14453 Apr 26 18:14	0° $\mathbb{L}$ 59'15		evening max el	14454 Mar 23 05:54	9° $\mathbb{L}$ 18'43	26°31'58
evening set	14453 Apr 27 20:37	0° $\mathbb{L}$ 08'42		retrograde	14454 Apr 05 06:36	16° $\mathbb{L}$ 41'23	
	14453 Apr 28 00:40	30° $\mathbb{R}$ $\mathbb{L}$		evening set	14454 Apr 11 14:56	14° $\mathbb{L}$ 09'22	
min. Earth dist.	14453 May 02 04:10	25° $\mathbb{L}$ 24'43	0.67837 AU	asc. node	14454 Apr 13 15:38	12° $\mathbb{L}$ 16'36	
inferior conj	14453 May 03 13:15	23° $\mathbb{L}$ 38'05	1°57'20	min. Earth dist.	14454 Apr 15 16:30	10° $\mathbb{L}$ 00'21	0.66598 AU
minimum elong	14453 May 03 11:06	23° $\mathbb{L}$ 45'01	1°55'54	inferior conj	14454 Apr 17 14:15	7° $\mathbb{L}$ 42'48	1°12'04
morning rise	14453 May 09 02:02	17° $\mathbb{L}$ 46'04		minimum elong	14454 Apr 17 12:35	7° $\mathbb{L}$ 47'52	1°10'56
direct	14453 May 12 14:03	16° $\mathbb{L}$ 35'42		morning rise	14454 Apr 23 11:15	2° $\mathbb{L}$ 02'04	
morning max el	14453 May 19 11:32	20° $\mathbb{L}$ 20'44	19°06'11	direct	14454 Apr 26 12:48	1° $\mathbb{L}$ 09'33	
	14453 May 27 07:18	0° $\mathbb{L}$		morning max el	14454 May 02 23:24	4° $\mathbb{L}$ 34'01	18°22'27
desc. node	14453 May 29 15:46	3° $\mathbb{L}$ 22'23		desc. node	14454 May 16 12:37	23° $\mathbb{L}$ 15'21	
greatest brilliancy	14453 Jun 01 11:55	7° $\mathbb{L}$ 34'25	-0.7m		14454 May 20 19:08	0° $\mathbb{L}$	
morning set	14453 Jun 12 02:18	23° $\mathbb{L}$ 45'58		morning set	14454 May 23 03:09	3° $\mathbb{L}$ 42'05	
	14453 Jun 16 03:03	0° $\mathbb{L}$					
max. Earth dist.	14453 Jun 25 16:00	14° $\mathbb{L}$ 51'23	1.45501 AU	superior conj	14454 Jun 07 19:06	28° $\mathbb{L}$ 20'12	-2°06'20
				minimum elong	14454 Jun 07 12:48	27° $\mathbb{L}$ 55'38	2°07'03
superior conj	14453 Jun 28 10:36	19° $\mathbb{L}$ 13'09	-2°13'34	max. Earth dist.	14454 Jun 08 12:02	29° $\mathbb{L}$ 26'17	1.45910 AU
minimum elong	14453 Jun 28 11:51	19° $\mathbb{L}$ 18'03	2°14'35		14454 Jun 08 20:41	0° $\mathbb{L}$	
	14453 Jul 05 05:25	0° $\mathbb{L}$		evening rise	14454 Jun 23 17:16	23° $\mathbb{L}$ 12'54	
evening rise	14453 Jul 13 05:30	12° $\mathbb{L}$ 57'34			14454 Jun 28 01:10	0° $\mathbb{L}$	
asc. node	14453 Jul 23 17:19	29° $\mathbb{L}$ 54'32		greatest brilliancy	14454 Jul 03 10:20	8° $\mathbb{L}$ 22'02	-0.8m

asc. node	14454 Jul 10 14:05	18° $\Omega$ 54'17			14455 Jun 01 14:50	0° $\mathfrak{G}$	
evening max el	14454 Jul 16 02:37	25° $\Omega$ 34'33	18°54'27	evening rise	14455 Jun 03 09:39	2° $\mathfrak{G}$ 44'27	
retrograde	14454 Jul 22 19:54	29° $\Omega$ 15'36		greatest brilliancy	14455 Jun 17 15:31	24° $\mathfrak{G}$ 12'58	-0.6m
evening set	14454 Jul 26 05:21	28° $\Omega$ 09'08			14455 Jun 21 16:58	0° $\Omega$	
inferior conj	14454 Jul 31 18:03	22° $\Omega$ 25'05	2°50'28	asc. node	14455 Jun 27 10:57	7° $\Omega$ 21'00	
minimum elong	14454 Jul 31 19:51	22° $\Omega$ 19'26	2°49'27	evening max el	14455 Jun 29 08:49	9° $\Omega$ 23'57	19°44'44
min. Earth dist.	14454 Aug 02 10:55	20° $\Omega$ 15'53	0.66359 AU	retrograde	14455 Jul 06 18:12	13° $\Omega$ 34'13	
morning rise	14454 Aug 06 09:33	16° $\Omega$ 00'01		evening set	14455 Jul 10 13:16	12° $\Omega$ 10'42	
desc. node	14454 Aug 12 11:03	13° $\Omega$ 21'24		inferior conj	14455 Jul 15 21:08	6° $\Omega$ 13'33	3°06'53
direct	14454 Aug 12 15:11	13° $\Omega$ 21'17		minimum elong	14455 Jul 15 22:00	6° $\Omega$ 10'40	3°05'55
morning max el	14454 Aug 25 13:47	21° $\Omega$ 02'36	26°24'33	min. Earth dist.	14455 Jul 16 23:46	4° $\Omega$ 44'19	0.67703 AU
	14454 Sep 02 08:05	0° $\mathfrak{H}$		morning rise	14455 Jul 21 06:17	29° $\mathfrak{G}$ 49'08	
	14454 Sep 22 09:37	0° $\mathfrak{L}$			14455 Jul 21 01:29	30° $\mathfrak{R}$ $\mathfrak{G}$	
morning set	14454 Sep 30 11:26	14° $\mathfrak{L}$ 25'14		direct	14455 Jul 27 01:37	27° $\mathfrak{G}$ 16'34	
max. Earth dist.	14454 Oct 04 09:09	21° $\mathfrak{L}$ 54'57	1.34626 AU	desc. node	14455 Jul 30 08:28	27° $\mathfrak{G}$ 57'32	
asc. node	14454 Oct 06 15:58	26° $\mathfrak{L}$ 27'23			14455 Aug 02 22:58	0° $\Omega$	
	14454 Oct 08 09:52	0° $\mathfrak{M}$		morning max el	14455 Aug 08 00:40	4° $\Omega$ 26'48	25°05'32
					14455 Aug 27 16:00	0° $\mathfrak{H}$	
superior conj	14454 Oct 09 12:10	2° $\mathfrak{M}$ 15'07	0°26'16	morning set	14455 Sep 12 21:11	26° $\mathfrak{H}$ 33'19	
minimum elong	14454 Oct 09 10:46	2° $\mathfrak{M}$ 07'54	0°26'28		14455 Sep 14 19:08	0° $\mathfrak{L}$	
evening rise	14454 Oct 16 23:51	17° $\mathfrak{M}$ 56'32		max. Earth dist.	14455 Sep 16 10:39	3° $\mathfrak{L}$ 01'07	1.36727 AU
	14454 Oct 22 23:31	0° $\mathfrak{J}$					
evening max el	14454 Nov 05 02:56	19° $\mathfrak{J}$ 30'10	20°57'01	superior conj	14455 Sep 23 00:28	15° $\mathfrak{L}$ 35'50	-0°04'39
desc. node	14454 Nov 08 07:17	22° $\mathfrak{J}$ 14'02		minimum elong	14455 Sep 23 00:45	15° $\mathfrak{L}$ 37'13	0°04'26
retrograde	14454 Nov 16 17:17	25° $\mathfrak{J}$ 15'58		behind sun begin	14455 Sep 22 18:29	15° $\mathfrak{L}$ 06'22	
evening set	14454 Nov 19 05:51	25° $\mathfrak{J}$ 00'46		behind sun end	14455 Sep 23 07:01	16° $\mathfrak{L}$ 08'08	
inferior conj	14454 Nov 28 03:14	21° $\mathfrak{J}$ 07'38	-5°22'40	asc. node	14455 Sep 23 12:32	16° $\mathfrak{L}$ 35'29	
minimum elong	14454 Nov 27 18:27	21° $\mathfrak{J}$ 20'08	5°19'57		14455 Sep 30 04:03	0° $\mathfrak{M}$	
min. Earth dist.	14454 Nov 28 22:44	20° $\mathfrak{J}$ 39'52	0.54507 AU	evening rise	14455 Oct 01 05:05	2° $\mathfrak{M}$ 07'04	
morning rise	14454 Dec 06 07:19	17° $\mathfrak{J}$ 14'53			14455 Oct 17 22:57	0° $\mathfrak{J}$	
direct	14454 Dec 10 11:50	16° $\mathfrak{J}$ 37'17		evening max el	14455 Oct 18 10:35	0° $\mathfrak{J}$ 29'46	19°41'14
morning max el	14454 Dec 23 13:49	22° $\mathfrak{J}$ 57'35	23°02'54	desc. node	14455 Oct 26 04:38	5° $\mathfrak{J}$ 14'01	
	14454 Dec 29 17:42	0° $\mathfrak{Z}$		retrograde	14455 Oct 28 09:43	5° $\mathfrak{J}$ 28'18	
asc. node	14455 Jan 02 16:18	5° $\mathfrak{Z}$ 43'14		evening set	14455 Oct 30 07:57	5° $\mathfrak{J}$ 17'58	
morning set	14455 Jan 15 10:34	29° $\mathfrak{Z}$ 48'05		inferior conj	14455 Nov 08 02:12	1° $\mathfrak{J}$ 15'07	-3°55'52
	14455 Jan 15 12:49	0° $\approx$		minimum elong	14455 Nov 07 16:42	1° $\mathfrak{J}$ 30'00	3°51'53
					14455 Nov 10 02:06	30° $\mathfrak{R}$ $\mathfrak{M}$	
superior conj	14455 Jan 22 08:49	14° $\approx$ 44'25	1°29'58	min. Earth dist.	14455 Nov 10 07:19	29° $\mathfrak{M}$ 51'57	0.55267 AU
minimum elong	14455 Jan 22 10:31	14° $\approx$ 53'31	1°30'38	morning rise	14455 Nov 15 23:42	26° $\mathfrak{M}$ 56'59	
max. Earth dist.	14455 Jan 25 14:51	21° $\approx$ 37'55	1.33421 AU	direct	14455 Nov 21 02:23	25° $\mathfrak{M}$ 58'58	
	14455 Jan 29 17:19	0° $\mathfrak{H}$			14455 Dec 01 13:00	0° $\mathfrak{J}$	
evening rise	14455 Jan 30 06:50	1° $\mathfrak{H}$ 06'50		morning max el	14455 Dec 04 23:11	2° $\mathfrak{J}$ 54'12	24°51'49
desc. node	14455 Feb 04 07:01	10° $\mathfrak{H}$ 38'23		asc. node	14455 Dec 20 13:26	24° $\mathfrak{J}$ 05'58	
	14455 Feb 15 19:59	0° $\mathfrak{Y}$			14455 Dec 23 19:13	0° $\mathfrak{Z}$	
evening max el	14455 Mar 05 19:16	22° $\mathfrak{Y}$ 51'12	27°16'29	morning set	14455 Dec 30 22:28	14° $\mathfrak{Z}$ 30'47	
	14455 Mar 16 17:52	0° $\mathfrak{G}$					
retrograde	14455 Mar 19 08:29	0° $\mathfrak{G}$ 20'33		superior conj	14456 Jan 06 16:55	29° $\mathfrak{Z}$ 21'35	1°36'49
	14455 Mar 21 20:38	30° $\mathfrak{R}$ $\mathfrak{Y}$		minimum elong	14456 Jan 06 17:36	29° $\mathfrak{Z}$ 25'15	1°37'46
evening set	14455 Mar 26 00:54	27° $\mathfrak{Y}$ 49'48			14456 Jan 06 23:55	0° $\approx$	
min. Earth dist.	14455 Mar 29 21:48	24° $\mathfrak{Y}$ 13'17	0.64960 AU	max. Earth dist.	14456 Jan 08 15:29	3° $\approx$ 36'21	1.32145 AU
asc. node	14455 Mar 31 13:05	22° $\mathfrak{Y}$ 25'45		evening rise	14456 Jan 14 00:49	15° $\approx$ 00'58	
inferior conj	14455 Apr 01 07:48	21° $\mathfrak{Y}$ 33'53	0°14'50		14456 Jan 21 19:03	0° $\mathfrak{H}$	
minimum elong	14455 Apr 01 07:23	21° $\mathfrak{Y}$ 35'02	0°14'24	desc. node	14456 Jan 22 03:40	0° $\mathfrak{H}$ 38'49	
transit middle	14455 Apr 01 07:23	21° $\mathfrak{Y}$ 35'02	0°14'24		14456 Feb 10 17:49	0° $\mathfrak{Y}$	
transit begin	14455 Apr 01 06:03	21° $\mathfrak{Y}$ 38'42		evening max el	14456 Feb 16 06:51	5° $\mathfrak{Y}$ 57'03	27°34'30
transit end	14455 Apr 01 08:42	21° $\mathfrak{Y}$ 31'22		retrograde	14456 Mar 01 03:28	13° $\mathfrak{Y}$ 24'11	
morning rise	14455 Apr 07 15:42	16° $\mathfrak{Y}$ 06'26		evening set	14456 Mar 08 00:04	11° $\mathfrak{Y}$ 02'12	
direct	14455 Apr 10 07:49	15° $\mathfrak{Y}$ 28'57		min. Earth dist.	14456 Mar 11 18:22	7° $\mathfrak{Y}$ 53'43	0.63000 AU
morning max el	14455 Apr 16 15:39	18° $\mathfrak{Y}$ 45'29	17°55'39	inferior conj	14456 Mar 14 14:59	5° $\mathfrak{Y}$ 04'30	-0°54'40
	14455 Apr 25 03:01	0° $\mathfrak{G}$		minimum elong	14456 Mar 14 16:47	5° $\mathfrak{Y}$ 00'02	0°53'54
desc. node	14455 May 03 09:19	13° $\mathfrak{G}$ 25'43		asc. node	14456 Mar 17 10:34	2° $\mathfrak{Y}$ 26'25	
morning set	14455 May 04 07:53	14° $\mathfrak{G}$ 58'59			14456 Mar 21 04:43	30° $\mathfrak{R}$ $\mathfrak{H}$	
	14455 May 13 12:08	0° $\mathfrak{I}$		morning rise	14456 Mar 21 12:11	29° $\mathfrak{H}$ 52'46	
				direct	14456 Mar 23 20:20	29° $\mathfrak{H}$ 26'47	
					14456 Mar 26 11:16	0° $\mathfrak{Y}$	
superior conj	14455 May 18 09:32	7° $\mathfrak{I}$ 49'34	-1°40'41	morning max el	14456 Mar 30 09:24	2° $\mathfrak{Y}$ 46'48	17°46'10
minimum elong	14455 May 18 00:35	7° $\mathfrak{I}$ 14'04	1°40'43	morning set	14456 Apr 15 14:01	27° $\mathfrak{Y}$ 28'14	
max. Earth dist.	14455 May 22 08:07	14° $\mathfrak{I}$ 02'45	1.45558 AU				

	14456 Apr 17 01:02	0°♄	superior conj	14457 Apr 09 05:23	29°♄47'21	-0°24'50
desc. node	14456 Apr 19 05:55	3°♄48'15	minimum elong	14457 Apr 09 03:10	29°♄37'45	0°24'53
				14457 Apr 09 08:18	0°♄	
superior conj	14456 Apr 27 19:28	18°♄15'10 -1°04'05	max. Earth dist.	14457 Apr 16 15:58	12°♄21'15	1.42854 AU
minimum elong	14456 Apr 27 13:12	17°♄49'17 1°03'55	evening rise	14457 Apr 22 18:34	22°♄11'14	
max. Earth dist.	14456 May 04 01:48	28°♄24'55 1.44502 AU		14457 Apr 27 19:18	0°♄	
	14456 May 05 01:41	0°♄		14457 May 18 22:51	0°♄	
evening rise	14456 May 12 20:47	12°♄10'34	evening max el	14457 May 25 04:11	7°♄06'26	22°04'22
	14456 May 24 17:25	0°♄	asc. node	14457 May 31 04:59	11°♄46'27	
evening max el	14456 Jun 11 09:09	23°♄14'40 20°49'15	retrograde	14457 Jun 03 15:05	12°♄38'51	
asc. node	14456 Jun 13 07:54	25°♄03'07	evening set	14457 Jun 08 07:35	10°♄42'05	
retrograde	14456 Jun 19 17:11	28°♄03'37	inferior conj	14457 Jun 13 13:56	4°♄23'24	3°03'40
evening set	14456 Jun 23 22:36	26°♄23'06	minimum elong	14457 Jun 13 12:52	4°♄27'04	3°02'31
inferior conj	14456 Jun 29 04:28	20°♄14'19 3°10'49	min. Earth dist.	14457 Jun 13 13:39	4°♄24'23	0.68992 AU
minimum elong	14456 Jun 29 04:20	20°♄14'48 3°09'48		14457 Jun 16 22:14	30°♄	
min. Earth dist.	14456 Jun 29 17:24	19°♄29'33 0.68586 AU	morning rise	14457 Jun 18 17:58	28°♄09'26	
morning rise	14456 Jul 04 09:46	13°♄54'02	direct	14457 Jun 23 12:57	26°♄07'27	
direct	14456 Jul 09 17:16	11°♄34'24		14457 Jul 01 05:30	0°♄	
desc. node	14456 Jul 16 05:48	14°♄14'47	morning max el	14457 Jul 02 23:45	1°♄40'06	22°08'33
morning max el	14456 Jul 20 11:10	17°♄59'23 23°37'06	desc. node	14457 Jul 03 02:59	1°♄48'14	
	14456 Jul 30 12:27	0°♄		14457 Jul 24 09:30	0°♄	
	14456 Aug 19 17:35	0°♄	morning set	14457 Aug 04 23:39	17°♄57'29	
morning set	14456 Aug 24 10:28	7°♄46'52	max. Earth dist.	14457 Aug 10 09:28	26°♄49'25	1.41417 AU
max. Earth dist.	14456 Aug 28 08:25	14°♄30'28 1.39082 AU		14457 Aug 12 06:48	0°♄	
superior conj	14456 Sep 04 23:22	28°♄18'31 -0°39'15	superior conj	14457 Aug 18 04:36	10°♄13'46	-1°14'50
minimum elong	14456 Sep 05 02:13	28°♄31'52 0°38'53	minimum elong	14457 Aug 18 10:23	10°♄39'24	1°14'27
	14456 Sep 05 20:58	0°♄	asc. node	14457 Aug 27 05:38	26°♄41'34	
asc. node	14456 Sep 09 09:04	6°♄41'18	evening rise	14457 Aug 28 16:00	29°♄21'19	
evening rise	14456 Sep 14 03:37	15°♄58'05		14457 Aug 29 00:20	0°♄	
	14456 Sep 21 15:02	0°♄	evening max el	14457 Sep 13 14:57	24°♄49'50	18°14'53
evening max el	14456 Sep 30 07:49	12°♄18'31 18°47'22	retrograde	14457 Sep 20 21:57	28°♄32'27	
retrograde	14456 Oct 08 18:06	16°♄33'06	evening set	14457 Sep 23 01:04	28°♄14'05	
evening set	14456 Oct 10 15:36	16°♄21'00	desc. node	14457 Sep 28 23:32	24°♄45'00	
desc. node	14456 Oct 12 02:04	15°♄56'42	inferior conj	14457 Sep 30 10:57	23°♄31'20	-0°27'57
inferior conj	14456 Oct 18 19:38	11°♄59'41 -2°08'38	minimum elong	14457 Sep 30 09:56	23°♄33'28	0°27'15
minimum elong	14456 Oct 18 14:19	12°♄09'21 2°05'55	min. Earth dist.	14457 Oct 03 17:48	20°♄45'07	0.58915 AU
min. Earth dist.	14456 Oct 21 20:56	9°♄47'23 0.56832 AU	morning rise	14457 Oct 07 15:23	18°♄01'29	
morning rise	14456 Oct 26 09:48	7°♄05'26	direct	14457 Oct 14 00:56	16°♄11'07	
direct	14456 Nov 01 06:50	5°♄41'54	morning max el	14457 Oct 28 08:11	23°♄53'11	27°31'45
morning max el	14456 Nov 15 11:51	13°♄03'59 26°26'51		14457 Nov 02 21:17	0°♄	
	14456 Nov 28 19:23	0°♄		14457 Nov 22 00:23	0°♄	
asc. node	14456 Dec 06 10:26	13°♄04'22	asc. node	14457 Nov 23 07:20	2°♄29'09	
morning set	14456 Dec 14 09:01	29°♄05'22	morning set	14457 Nov 28 16:29	13°♄27'30	
	14456 Dec 14 19:10	0°♄	max. Earth dist.	14457 Dec 05 05:43	27°♄49'31	1.31117 AU
superior conj	14456 Dec 21 03:42	14°♄02'53 1°37'34	superior conj	14457 Dec 05 15:16	28°♄42'51	1°32'23
minimum elong	14456 Dec 21 03:18	14°♄00'37 1°38'36	minimum elong	14457 Dec 05 13:54	28°♄35'13	1°33'20
max. Earth dist.	14456 Dec 21 21:32	15°♄42'11 1.31368 AU		14457 Dec 06 05:03	0°♄	
evening rise	14456 Dec 28 02:15	29°♄12'19	evening rise	14457 Dec 12 08:51	13°♄35'08	
	14456 Dec 28 11:19	0°♄		14457 Dec 20 12:43	0°♄	
desc. node	14457 Jan 08 00:25	20°♄16'39	desc. node	14457 Dec 25 21:16	9°♄22'48	
	14457 Jan 13 23:05	0°♄	evening max el	14458 Jan 10 15:14	0°♄01'01	26°31'02
evening max el	14457 Jan 28 14:28	18°♄24'14 27°20'17		14458 Jan 10 14:48	0°♄	
retrograde	14457 Feb 11 14:03	25°♄42'52	retrograde	14458 Jan 24 14:24	7°♄08'39	
evening set	14457 Feb 18 09:29	23°♄37'34	evening set	14458 Jan 31 01:25	5°♄26'59	
min. Earth dist.	14457 Feb 22 04:56	20°♄50'07 0.60835 AU	min. Earth dist.	14458 Feb 04 04:52	2°♄49'54	0.58642 AU
inferior conj	14457 Feb 25 08:28	18°♄06'05 -2°15'03	inferior conj	14458 Feb 07 08:26	0°♄27'32	-3°41'18
minimum elong	14457 Feb 25 13:21	17°♄55'25 2°12'49	minimum elong	14458 Feb 07 16:27	0°♄12'22	3°37'59
asc. node	14457 Mar 04 08:01	13°♄22'38		14458 Feb 07 23:02	30°♄	
morning rise	14457 Mar 04 20:25	13°♄12'49	morning rise	14458 Feb 15 10:36	25°♄55'31	
direct	14457 Mar 06 22:46	12°♄54'38	direct	14458 Feb 17 10:50	25°♄41'29	
morning max el	14457 Mar 14 01:24	16°♄28'44 17°54'57	asc. node	14458 Feb 19 05:28	25°♄52'56	
	14457 Mar 23 13:45	0°♄	morning max el	14458 Feb 25 11:53	29°♄39'52	18°23'25
morning set	14457 Mar 29 15:39	10°♄52'13		14458 Feb 25 19:57	0°♄	
desc. node	14457 Apr 06 02:28	24°♄18'52	morning set	14458 Mar 13 07:02	24°♄52'56	
				14458 Mar 15 23:24	0°♄	



superior conj	14458 Mar 22 13:04	12° $\Upsilon$ 18'44	0°11'31	superior conj	14459 Mar 05 14:08	25° $\text{H}$ 37'05	0°42'08
minimum elong	14458 Mar 22 13:54	12° $\Upsilon$ 22'30	0°11'16	minimum elong	14459 Mar 05 16:29	25° $\text{H}$ 48'25	0°41'55
behind sun begin	14458 Mar 22 08:43	11° $\Upsilon$ 58'45			14459 Mar 07 21:10	0° $\Upsilon$	
behind sun end	14458 Mar 22 19:04	12° $\Upsilon$ 46'12		desc. node	14459 Mar 10 19:33	5° $\Upsilon$ 27'42	
desc. node	14458 Mar 23 23:00	14° $\Upsilon$ 53'10		max. Earth dist.	14459 Mar 12 08:20	8° $\Upsilon$ 15'00	1.38515 AU
max. Earth dist.	14458 Mar 30 01:48	25° $\Upsilon$ 39'33	1.40782 AU	evening rise	14459 Mar 16 02:04	14° $\Upsilon$ 51'47	
	14458 Apr 01 15:20	0° $\text{Z}$			14459 Mar 25 06:01	0° $\text{Z}$	
evening rise	14458 Apr 03 11:45	3° $\text{Z}$ 04'25			14459 Apr 15 20:34	0° $\Pi$	
	14458 Apr 21 01:58	0° $\Pi$		evening max el	14459 Apr 20 09:00	4° $\Pi$ 52'26	24°44'57
evening max el	14458 May 07 19:26	20° $\Pi$ 59'00	23°25'02	retrograde	14459 May 02 02:25	11° $\Pi$ 43'10	
retrograde	14458 May 18 10:31	27° $\Pi$ 14'00		asc. node	14459 May 04 23:25	11° $\Pi$ 07'29	
asc. node	14458 May 18 02:09	27° $\Pi$ 13'27		evening set	14459 May 07 18:03	9° $\Pi$ 20'22	
evening set	14458 May 23 14:36	25° $\Pi$ 02'44		min. Earth dist.	14459 May 12 05:31	4° $\Pi$ 15'58	0.68362 AU
inferior conj	14458 May 28 23:32	18° $\Pi$ 36'27	2°46'07	inferior conj	14459 May 13 07:25	2° $\Pi$ 49'52	2°18'14
minimum elong	14458 May 28 21:47	18° $\Pi$ 42'31	2°44'48	minimum elong	14459 May 13 05:17	2° $\Pi$ 56'59	2°16'49
min. Earth dist.	14458 May 28 10:22	19° $\Pi$ 21'48	0.68915 AU		14459 May 15 12:24	30° $\text{R}$ $\text{Z}$	
morning rise	14458 Jun 03 04:55	12° $\Pi$ 30'13		morning rise	14459 May 18 16:45	26° $\text{Z}$ 52'26	
direct	14458 Jun 07 11:22	10° $\Pi$ 48'21		direct	14459 May 22 11:11	25° $\text{Z}$ 31'03	
morning max el	14458 Jun 15 17:34	15° $\Pi$ 31'11	20°47'24	morning max el	14459 May 29 18:37	29° $\text{Z}$ 33'46	19°38'46
desc. node	14458 Jun 20 00:07	20° $\Pi$ 17'25			14459 May 30 05:07	0° $\Pi$	
	14458 Jun 27 07:57	0° $\text{S}$		desc. node	14459 Jun 06 21:08	9° $\Pi$ 27'30	
morning set	14458 Jul 15 13:44	27° $\text{S}$ 09'13		greatest brilliancy	14459 Jun 11 11:39	16° $\Pi$ 01'35	-0.6m
	14458 Jul 17 09:32	0° $\Omega$			14459 Jun 20 19:26	0° $\text{S}$	
max. Earth dist.	14458 Jul 23 17:08	10° $\Omega$ 02'29	1.43441 AU	morning set	14459 Jun 24 16:11	5° $\text{S}$ 54'35	
				max. Earth dist.	14459 Jul 06 06:56	23° $\text{S}$ 58'40	1.44938 AU
superior conj	14458 Jul 30 11:54	21° $\Omega$ 11'48	-1°46'50		14459 Jul 10 01:54	0° $\Omega$	
minimum elong	14458 Jul 30 19:22	21° $\Omega$ 43'08	1°46'50				
	14458 Aug 04 16:06	0° $\text{N}$		superior conj	14459 Jul 10 19:32	1° $\Omega$ 10'37	-2°08'33
evening rise	14458 Aug 11 13:48	12° $\text{N}$ 05'18		minimum elong	14459 Jul 11 00:35	1° $\Omega$ 30'51	2°09'17
asc. node	14458 Aug 14 02:14	16° $\text{N}$ 32'06		evening rise	14459 Jul 24 15:51	23° $\Omega$ 57'02	
	14458 Aug 22 01:56	0° $\text{Z}$			14459 Jul 28 06:17	0° $\text{N}$	
evening max el	14458 Aug 28 03:41	7° $\text{Z}$ 53'28	18°02'25	asc. node	14459 Jul 31 22:52	6° $\text{N}$ 07'52	
retrograde	14458 Sep 03 18:31	11° $\text{Z}$ 18'21		evening max el	14459 Aug 11 18:16	21° $\text{N}$ 19'28	18°08'42
evening set	14458 Sep 06 05:17	10° $\text{Z}$ 50'03		retrograde	14459 Aug 18 02:59	24° $\text{N}$ 40'15	
inferior conj	14458 Sep 12 22:10	5° $\text{Z}$ 47'18	0°53'31	evening set	14459 Aug 20 22:11	23° $\text{N}$ 58'53	
minimum elong	14458 Sep 12 23:43	5° $\text{Z}$ 43'31	0°52'58	inferior conj	14459 Aug 27 01:17	18° $\text{N}$ 38'45	1°53'39
desc. node	14458 Sep 15 21:01	2° $\text{Z}$ 54'38		minimum elong	14459 Aug 27 03:42	18° $\text{N}$ 32'05	1°52'38
min. Earth dist.	14458 Sep 16 00:02	2° $\text{Z}$ 47'34	0.61195 AU	min. Earth dist.	14459 Aug 29 16:13	15° $\text{N}$ 45'55	0.63418 AU
	14458 Sep 19 09:18	30° $\text{R}$ $\text{N}$		morning rise	14459 Sep 02 07:16	12° $\text{N}$ 23'43	
morning rise	14458 Sep 19 15:19	29° $\text{N}$ 49'45		desc. node	14459 Sep 02 18:34	12° $\text{N}$ 02'56	
direct	14458 Sep 26 06:47	27° $\text{N}$ 35'33		direct	14459 Sep 08 22:42	9° $\text{N}$ 52'33	
	14458 Oct 03 16:48	0° $\text{Z}$		morning max el	14459 Sep 22 21:04	17° $\text{N}$ 53'35	27°46'31
morning max el	14458 Oct 10 12:07	5° $\text{Z}$ 31'33	27°58'21		14459 Oct 03 00:55	0° $\text{Z}$	
	14458 Oct 28 21:29	0° $\text{N}$			14459 Oct 21 18:05	0° $\text{N}$	
asc. node	14458 Nov 10 04:10	22° $\text{N}$ 13'09		morning set	14459 Oct 27 14:05	11° $\text{N}$ 15'05	
morning set	14458 Nov 12 18:57	27° $\text{N}$ 32'59		asc. node	14459 Oct 28 00:54	12° $\text{N}$ 09'35	
	14458 Nov 13 23:04	0° $\text{Z}$		max. Earth dist.	14459 Nov 01 13:08	21° $\text{N}$ 31'40	1.32229 AU
max. Earth dist.	14458 Nov 18 12:18	9° $\text{Z}$ 49'38	1.31400 AU				
superior conj	14458 Nov 20 01:46	13° $\text{Z}$ 16'44	1°21'21	superior conj	14459 Nov 04 09:11	27° $\text{N}$ 38'10	1°04'28
minimum elong	14458 Nov 19 23:43	13° $\text{Z}$ 05'22	1°22'04	minimum elong	14459 Nov 04 06:53	27° $\text{N}$ 25'37	1°04'55
evening rise	14458 Nov 26 18:37	28° $\text{Z}$ 04'43			14459 Nov 05 11:12	0° $\text{Z}$	
	14458 Nov 27 16:04	0° $\text{S}$		evening rise	14459 Nov 11 05:37	12° $\text{Z}$ 35'09	
desc. node	14458 Dec 12 18:14	27° $\text{S}$ 45'39			14459 Nov 19 21:45	0° $\text{S}$	
	14458 Dec 14 07:04	0° $\approx$		desc. node	14459 Nov 29 15:19	15° $\text{S}$ 08'10	
evening max el	14458 Dec 23 07:24	10° $\approx$ 45'12	25°10'25	evening max el	14459 Dec 04 17:26	20° $\text{S}$ 50'52	23°30'42
retrograde	14459 Jan 06 03:07	17° $\approx$ 41'19		retrograde	14459 Dec 18 03:02	27° $\text{S}$ 30'16	
evening set	14459 Jan 11 20:00	16° $\approx$ 28'02		evening set	14459 Dec 22 15:15	26° $\text{S}$ 46'05	
min. Earth dist.	14459 Jan 16 19:29	13° $\approx$ 45'48	0.56664 AU	min. Earth dist.	14459 Dec 29 04:01	23° $\text{S}$ 39'31	0.55187 AU
inferior conj	14459 Jan 19 11:58	12° $\approx$ 00'20	-5°00'55	inferior conj	14459 Dec 30 19:10	22° $\text{S}$ 42'11	-5°52'15
minimum elong	14459 Jan 19 20:50	11° $\approx$ 45'49	4°58'00	minimum elong	14459 Dec 30 23:19	22° $\text{S}$ 36'07	5°50'55
morning rise	14459 Jan 28 00:08	7° $\approx$ 50'21		morning rise	14460 Jan 08 09:02	18° $\text{S}$ 49'29	
direct	14459 Jan 30 04:18	7° $\approx$ 36'45		direct	14460 Jan 11 02:12	18° $\text{S}$ 31'31	
asc. node	14459 Feb 06 02:52	10° $\approx$ 06'17		morning max el	14460 Jan 22 00:25	23° $\text{S}$ 46'12	20°26'35
morning max el	14459 Feb 08 12:50	12° $\approx$ 09'21	19°13'27	asc. node	14460 Jan 24 00:14	25° $\text{S}$ 51'11	
	14459 Feb 20 13:02	0° $\text{H}$			14460 Jan 27 07:05	0° $\approx$	
morning set	14459 Feb 25 07:46	9° $\text{H}$ 17'18		morning set	14460 Feb 09 14:34	23° $\approx$ 55'06	
					14460 Feb 12 13:12	0° $\text{H}$	

superior conj	14460 Feb 17 04:06	9° $\text{H}$ 29'22	1°06'03		14461 Jan 19 19:44	0° $\approx$	
minimum elong	14460 Feb 17 06:46	9° $\text{H}$ 42'49	1°06'07	morning set	14461 Jan 24 00:54	8° $\approx$ 39'24	
max. Earth dist.	14460 Feb 22 15:30	20° $\text{H}$ 17'10	1.36302 AU				
desc. node	14460 Feb 25 16:05	25° $\text{H}$ 58'20		superior conj	14461 Jan 31 03:20	23° $\approx$ 45'26	1°23'07
evening rise	14460 Feb 26 11:13	27° $\text{H}$ 26'10		minimum elong	14461 Jan 31 05:31	23° $\approx$ 56'56	1°23'36
	14460 Feb 27 21:11	0° $\text{Y}$			14461 Feb 03 03:20	0° $\text{H}$	
	14460 Mar 17 15:08	0° $\text{B}$		max. Earth dist.	14461 Feb 04 04:19	2° $\text{H}$ 07'29	1.34361 AU
evening max el	14460 Apr 01 22:29	18° $\text{B}$ 44'06	25°57'07	evening rise	14461 Feb 08 11:47	10° $\text{H}$ 38'30	
retrograde	14460 Apr 14 13:44	25° $\text{B}$ 59'21		desc. node	14461 Feb 11 12:38	16° $\text{H}$ 21'12	
evening set	14460 Apr 20 16:16	23° $\text{B}$ 29'14			14461 Feb 19 08:32	0° $\text{Y}$	
asc. node	14460 Apr 20 20:46	23° $\text{B}$ 19'45			14461 Mar 13 02:32	0° $\text{B}$	
min. Earth dist.	14460 Apr 24 21:02	19° $\text{B}$ 00'19	0.67355 AU	evening max el	14461 Mar 15 12:19	2° $\text{B}$ 27'13	26°53'55
inferior conj	14460 Apr 26 11:34	16° $\text{B}$ 59'20	1°39'34	retrograde	14461 Mar 28 19:21	9° $\text{B}$ 54'15	
minimum elong	14460 Apr 26 09:33	17° $\text{B}$ 05'43	1°38'13	evening set	14461 Apr 04 07:18	7° $\text{B}$ 22'15	
morning rise	14460 May 02 03:31	11° $\text{B}$ 11'55		asc. node	14461 Apr 07 18:11	4° $\text{B}$ 02'23	
direct	14460 May 05 10:50	10° $\text{B}$ 09'38		min. Earth dist.	14461 Apr 08 06:45	3° $\text{B}$ 27'09	0.65936 AU
morning max el	14460 May 12 02:55	13° $\text{B}$ 44'44	18°45'33	inferior conj	14461 Apr 10 09:43	0° $\text{B}$ 59'07	0°49'19
desc. node	14460 May 23 18:03	29° $\text{B}$ 07'28		minimum elong	14461 Apr 10 08:28	1° $\text{B}$ 02'46	0°48'25
	14460 May 24 07:57	0° $\text{II}$			14461 Apr 11 06:13	30° $\text{R}$ $\text{Y}$	
greatest brilliancy	14460 May 26 08:25	3° $\text{II}$ 04'46	-0.8m	morning rise	14461 Apr 16 11:00	25° $\text{Y}$ 23'31	
morning set	14460 Jun 03 03:46	15° $\text{II}$ 10'57		direct	14461 Apr 19 08:20	24° $\text{Y}$ 37'48	
	14460 Jun 12 16:00	0° $\text{E}$		morning max el	14461 Apr 25 16:52	27° $\text{Y}$ 57'44	18°08'56
max. Earth dist.	14460 Jun 18 00:55	8° $\text{E}$ 22'42	1.45762 AU		14461 Apr 27 14:33	0° $\text{B}$	
				desc. node	14461 May 10 14:50	19° $\text{B}$ 08'40	
superior conj	14460 Jun 19 08:48	10° $\text{E}$ 27'17	-2°13'01	morning set	14461 May 14 16:16	25° $\text{B}$ 41'06	
minimum elong	14460 Jun 19 06:39	10° $\text{E}$ 18'53	2°14'01		14461 May 17 08:36	0° $\text{II}$	
	14460 Jul 01 17:55	0° $\text{O}$					
evening rise	14460 Jul 04 17:48	4° $\text{O}$ 47'29		superior conj	14461 May 29 17:41	19° $\text{II}$ 38'36	-1°57'21
greatest brilliancy	14460 Jul 10 01:43	13° $\text{O}$ 20'00	-0.9m	minimum elong	14461 May 29 09:27	19° $\text{II}$ 06'17	1°57'47
asc. node	14460 Jul 17 19:36	25° $\text{O}$ 23'26		max. Earth dist.	14461 May 31 21:01	22° $\text{II}$ 59'24	1.45848 AU
	14460 Jul 21 01:47	0° $\text{np}$			14461 Jun 05 09:00	0° $\text{E}$	
evening max el	14460 Jul 25 07:32	5° $\text{np}$ 00'16	18°32'51	evening rise	14461 Jun 14 20:03	14° $\text{E}$ 40'32	
retrograde	14460 Jul 31 19:17	8° $\text{np}$ 30'08			14461 Jun 24 18:55	0° $\text{O}$	
evening set	14460 Aug 03 23:21	7° $\text{np}$ 33'22		greatest brilliancy	14461 Jun 26 16:41	2° $\text{O}$ 52'44	-0.7m
inferior conj	14460 Aug 09 16:20	1° $\text{np}$ 57'48	2°34'28	asc. node	14461 Jul 04 16:24	14° $\text{O}$ 10'45	
minimum elong	14460 Aug 09 18:32	1° $\text{np}$ 51'09	2°33'25	evening max el	14461 Jul 08 16:55	18° $\text{O}$ 48'25	19°13'57
	14460 Aug 11 07:09	30° $\text{R}$ $\text{O}$		retrograde	14461 Jul 15 16:02	22° $\text{O}$ 40'08	
min. Earth dist.	14460 Aug 11 17:35	29° $\text{O}$ 28'53	0.65394 AU	evening set	14461 Jul 19 05:32	21° $\text{O}$ 26'29	
morning rise	14460 Aug 15 12:33	25° $\text{O}$ 34'28		inferior conj	14461 Jul 24 15:50	15° $\text{O}$ 36'58	2°59'02
desc. node	14460 Aug 19 16:04	23° $\text{O}$ 14'46		minimum elong	14461 Jul 24 17:15	15° $\text{O}$ 32'22	2°58'03
direct	14460 Aug 21 23:00	22° $\text{O}$ 55'30		min. Earth dist.	14461 Jul 26 02:40	13° $\text{O}$ 43'52	0.66993 AU
	14460 Sep 03 12:32	0° $\text{np}$		morning rise	14461 Jul 30 04:21	9° $\text{O}$ 11'49	
morning max el	14460 Sep 04 08:05	0° $\text{np}$ 48'27	27°01'46	direct	14461 Aug 05 06:01	6° $\text{O}$ 34'34	
	14460 Sep 26 01:59	0° $\text{E}$		desc. node	14461 Aug 06 13:32	6° $\text{O}$ 41'05	
morning set	14460 Oct 09 23:05	24° $\text{E}$ 27'33		morning max el	14461 Aug 17 19:06	14° $\text{O}$ 04'03	25°52'35
	14460 Oct 12 18:53	0° $\text{ML}$			14461 Aug 30 18:40	0° $\text{np}$	
asc. node	14460 Oct 13 21:34	2° $\text{ML}$ 13'59			14461 Sep 18 20:28	0° $\text{E}$	
max. Earth dist.	14460 Oct 14 04:58	2° $\text{ML}$ 51'22	1.33606 AU	morning set	14461 Sep 22 18:27	7° $\text{E}$ 01'38	
				max. Earth dist.	14461 Sep 26 11:00	13° $\text{E}$ 56'40	1.35483 AU
superior conj	14460 Oct 18 11:24	11° $\text{ML}$ 41'49	0°41'49	asc. node	14461 Sep 30 18:11	22° $\text{E}$ 21'50	
minimum elong	14460 Oct 18 09:26	11° $\text{ML}$ 31'31	0°42'04				
evening rise	14460 Oct 25 16:01	27° $\text{ML}$ 02'17		superior conj	14461 Oct 02 05:41	25° $\text{E}$ 20'38	0°13'43
	14460 Oct 27 01:48	0° $\text{A}$		minimum elong	14461 Oct 02 04:53	25° $\text{E}$ 16'34	0°13'55
	14460 Nov 14 08:56	0° $\text{B}$		behind sun begin	14461 Oct 02 01:46	25° $\text{E}$ 00'48	
evening max el	14460 Nov 15 05:44	0° $\text{B}$ 52'42	21°49'35	behind sun end	14461 Oct 02 08:00	25° $\text{E}$ 32'21	
desc. node	14460 Nov 15 12:29	1° $\text{B}$ 09'05			14461 Oct 04 12:23	0° $\text{ML}$	
retrograde	14460 Nov 27 15:48	7° $\text{B}$ 01'40		evening rise	14461 Oct 09 23:48	11° $\text{ML}$ 20'38	
evening set	14460 Nov 30 19:27	6° $\text{B}$ 39'24			14461 Oct 19 17:47	0° $\text{A}$	
inferior conj	14460 Dec 09 12:34	2° $\text{B}$ 46'48	-5°51'06	evening max el	14461 Oct 28 05:08	11° $\text{A}$ 25'30	20°22'06
minimum elong	14460 Dec 09 07:40	2° $\text{B}$ 53'39	5°49'35	desc. node	14461 Nov 02 09:45	15° $\text{A}$ 22'34	
min. Earth dist.	14460 Dec 09 10:02	2° $\text{B}$ 50'20	0.54493 AU	retrograde	14461 Nov 08 02:46	16° $\text{A}$ 50'55	
	14460 Dec 14 22:19	30° $\text{R}$ $\text{A}$		evening set	14461 Nov 10 07:27	16° $\text{A}$ 38'45	
morning rise	14460 Dec 17 20:42	28° $\text{A}$ 59'06		inferior conj	14461 Nov 19 05:15	12° $\text{A}$ 43'08	-4°50'24
direct	14460 Dec 21 11:40	28° $\text{A}$ 30'17		minimum elong	14461 Nov 18 19:14	12° $\text{A}$ 57'49	4°46'50
	14460 Dec 27 16:18	0° $\text{B}$		min. Earth dist.	14461 Nov 20 16:29	11° $\text{A}$ 51'29	0.54726 AU
morning max el	14461 Jan 02 21:21	4° $\text{B}$ 28'24	22°01'22	morning rise	14461 Nov 27 06:29	8° $\text{A}$ 41'57	
asc. node	14461 Jan 09 21:32	12° $\text{B}$ 50'35		direct	14461 Dec 01 21:09	7° $\text{A}$ 56'09	

morning max el	14461 Dec 15 08:11	14° $\text{♊}$ 31'56	23°49'42	morning rise	14462 Nov 07 05:51	18° $\text{♍}$ 31'29	
	14461 Dec 27 07:07	0° $\text{♊}$		direct	14462 Nov 12 16:52	17° $\text{♍}$ 23'22	
asc. node	14461 Dec 27 18:43	0° $\text{♊}$ 47'29		morning max el	14462 Nov 26 18:06	24° $\text{♍}$ 30'08	25°35'10
morning set	14462 Jan 08 12:46	23° $\text{♊}$ 24'38			14462 Dec 01 19:30	0° $\text{♊}$	
	14462 Jan 11 13:48	0° $\text{♊}$		asc. node	14462 Dec 14 15:48	19° $\text{♊}$ 26'57	
					14462 Dec 20 03:44	0° $\text{♊}$	
superior conj	14462 Jan 15 08:54	8° $\text{♊}$ 17'12	1°33'37	morning set	14462 Dec 24 00:19	8° $\text{♊}$ 04'46	
minimum elong	14462 Jan 15 10:11	8° $\text{♊}$ 24'09	1°34'26				
max. Earth dist.	14462 Jan 18 01:07	14° $\text{♊}$ 02'48	1.32821 AU	superior conj	14462 Dec 30 18:23	22° $\text{♊}$ 56'49	1°37'52
evening rise	14462 Jan 23 00:19	24° $\text{♊}$ 20'02		minimum elong	14462 Dec 30 18:35	22° $\text{♊}$ 57'58	1°38'52
	14462 Jan 25 21:31	0° $\text{♊}$		max. Earth dist.	14463 Jan 01 04:37	26° $\text{♊}$ 06'00	1.31753 AU
desc. node	14462 Jan 29 09:13	6° $\text{♊}$ 31'48			14463 Jan 02 23:23	0° $\text{♊}$	
	14462 Feb 12 21:45	0° $\text{♊}$		evening rise	14463 Jan 06 21:46	8° $\text{♊}$ 22'13	
evening max el	14462 Feb 26 01:26	15° $\text{♊}$ 51'10	27°27'55	desc. node	14463 Jan 16 05:53	26° $\text{♊}$ 23'37	
retrograde	14462 Mar 11 18:15	23° $\text{♊}$ 19'40			14463 Jan 18 07:31	0° $\text{♊}$	
evening set	14462 Mar 18 12:58	20° $\text{♊}$ 52'01		evening max el	14463 Feb 08 11:34	28° $\text{♊}$ 41'42	27°32'37
min. Earth dist.	14462 Mar 22 08:35	17° $\text{♊}$ 27'57	0.64159 AU		14463 Feb 09 21:39	0° $\text{♊}$	
inferior conj	14462 Mar 24 23:16	14° $\text{♊}$ 43'04	-0°13'07	retrograde	14463 Feb 22 09:29	6° $\text{♊}$ 05'18	
minimum elong	14462 Mar 24 23:40	14° $\text{♊}$ 42'00	0°13'07	evening set	14463 Mar 01 06:37	3° $\text{♊}$ 49'19	
transit middle	14462 Mar 24 23:40	14° $\text{♊}$ 42'00	0°13'07	min. Earth dist.	14463 Mar 05 00:46	0° $\text{♊}$ 51'07	0.62099 AU
transit begin	14462 Mar 24 21:53	14° $\text{♊}$ 46'43			14463 Mar 05 23:04	30° $\text{♊}$	
transit end	14462 Mar 25 01:27	14° $\text{♊}$ 37'19		inferior conj	14463 Mar 08 01:01	28° $\text{♊}$ 02'12	-1°27'35
asc. node	14462 Mar 25 15:37	14° $\text{♊}$ 00'10		minimum elong	14463 Mar 08 04:03	27° $\text{♊}$ 55'04	1°26'13
morning rise	14462 Mar 31 12:31	9° $\text{♊}$ 21'42		asc. node	14463 Mar 12 13:05	24° $\text{♊}$ 17'16	
direct	14462 Apr 03 01:08	8° $\text{♊}$ 49'24		morning rise	14463 Mar 15 04:24	22° $\text{♊}$ 58'06	
morning max el	14462 Apr 09 10:05	12° $\text{♊}$ 05'59	17°49'29	direct	14463 Mar 17 09:54	22° $\text{♊}$ 35'47	
	14462 Apr 21 21:06	0° $\text{♊}$		morning max el	14463 Mar 24 03:30	26° $\text{♊}$ 00'06	17°47'41
morning set	14462 Apr 26 08:30	7° $\text{♊}$ 31'25			14463 Mar 27 13:39	0° $\text{♊}$	
desc. node	14462 Apr 27 11:30	9° $\text{♊}$ 25'12		morning set	14463 Apr 08 23:37	20° $\text{♊}$ 25'51	
				desc. node	14463 Apr 14 08:05	29° $\text{♊}$ 51'37	
					14463 Apr 14 10:01	0° $\text{♊}$	
superior conj	14462 May 09 15:13	29° $\text{♊}$ 28'51	-1°25'58	superior conj	14463 Apr 20 11:17	10° $\text{♊}$ 22'36	-0°47'22
minimum elong	14462 May 09 06:59	28° $\text{♊}$ 55'40	1°25'51	minimum elong	14463 Apr 20 06:46	10° $\text{♊}$ 03'34	0°47'15
	14462 May 09 22:58	0° $\text{♊}$		max. Earth dist.	14463 Apr 27 09:30	21° $\text{♊}$ 47'23	1.43864 AU
max. Earth dist.	14462 May 14 16:52	7° $\text{♊}$ 33'41	1.45194 AU		14463 May 02 13:22	0° $\text{♊}$	
evening rise	14462 May 25 08:12	24° $\text{♊}$ 04'57		evening rise	14463 May 04 22:08	3° $\text{♊}$ 41'22	
	14462 May 29 05:27	0° $\text{♊}$			14463 May 22 15:39	0° $\text{♊}$	
	14462 Jun 19 10:06	0° $\text{♊}$		evening max el	14463 Jun 04 18:34	16° $\text{♊}$ 29'35	21°20'08
asc. node	14462 Jun 21 13:17	2° $\text{♊}$ 20'11		asc. node	14463 Jun 08 10:17	19° $\text{♊}$ 39'10	
evening max el	14462 Jun 21 20:44	2° $\text{♊}$ 39'02	20°10'33	retrograde	14463 Jun 13 13:37	21° $\text{♊}$ 36'56	
retrograde	14462 Jun 29 14:49	7° $\text{♊}$ 04'18		evening set	14463 Jun 17 23:44	19° $\text{♊}$ 49'08	
evening set	14462 Jul 03 14:18	5° $\text{♊}$ 33'18		inferior conj	14463 Jun 23 05:29	13° $\text{♊}$ 35'41	3°09'05
inferior conj	14462 Jul 08 21:00	29° $\text{♊}$ 31'02	3°09'58	minimum elong	14463 Jun 23 04:56	13° $\text{♊}$ 37'35	3°08'01
minimum elong	14462 Jul 08 21:26	29° $\text{♊}$ 29'33	3°08'58	min. Earth dist.	14463 Jun 23 12:39	13° $\text{♊}$ 10'41	0.68814 AU
	14462 Jul 08 12:29	30° $\text{♊}$		morning rise	14463 Jun 28 09:57	7° $\text{♊}$ 17'56	
min. Earth dist.	14462 Jul 09 17:40	28° $\text{♊}$ 20'38	0.68144 AU	direct	14463 Jul 03 12:02	5° $\text{♊}$ 05'41	
morning rise	14462 Jul 14 04:13	23° $\text{♊}$ 08'18		desc. node	14463 Jul 11 08:12	8° $\text{♊}$ 55'52	
direct	14462 Jul 19 18:42	20° $\text{♊}$ 40'42		morning max el	14463 Jul 13 16:53	11° $\text{♊}$ 08'49	22°59'04
desc. node	14462 Jul 24 10:55	22° $\text{♊}$ 03'28			14463 Jul 28 16:39	0° $\text{♊}$	
morning max el	14462 Jul 31 05:39	27° $\text{♊}$ 32'14	24°28'30	morning set	14463 Aug 16 23:30	29° $\text{♊}$ 35'59	
	14462 Aug 02 13:16	0° $\text{♊}$			14463 Aug 17 05:18	0° $\text{♊}$	
	14462 Aug 24 10:11	0° $\text{♊}$		max. Earth dist.	14463 Aug 21 09:21	7° $\text{♊}$ 01'07	1.40091 AU
morning set	14462 Sep 04 20:02	18° $\text{♊}$ 47'43					
max. Earth dist.	14462 Sep 08 10:31	25° $\text{♊}$ 11'01	1.37723 AU	superior conj	14463 Aug 29 04:46	20° $\text{♊}$ 50'36	-0°54'25
	14462 Sep 11 01:44	0° $\text{♊}$		minimum elong	14463 Aug 29 08:53	21° $\text{♊}$ 09'26	0°54'01
superior conj	14462 Sep 15 12:48	8° $\text{♊}$ 26'34	-0°19'00		14463 Sep 03 02:50	0° $\text{♊}$	
minimum elong	14462 Sep 15 14:04	8° $\text{♊}$ 32'43	0°18'42	asc. node	14463 Sep 04 11:16	2° $\text{♊}$ 33'47	
asc. node	14462 Sep 17 14:44	12° $\text{♊}$ 29'32		evening rise	14463 Sep 07 21:20	9° $\text{♊}$ 05'29	
evening rise	14462 Sep 24 02:34	25° $\text{♊}$ 24'13			14463 Sep 19 19:56	0° $\text{♊}$	
	14462 Sep 26 10:16	0° $\text{♊}$		evening max el	14463 Sep 23 20:47	4° $\text{♊}$ 54'35	18°30'59
evening max el	14462 Oct 10 18:49	22° $\text{♊}$ 46'07	19°15'29	retrograde	14463 Oct 01 18:24	8° $\text{♊}$ 54'23	
retrograde	14462 Oct 20 01:16	27° $\text{♊}$ 25'04		evening set	14463 Oct 03 17:39	8° $\text{♊}$ 40'14	
desc. node	14462 Oct 20 07:07	27° $\text{♊}$ 24'53		desc. node	14463 Oct 07 04:34	7° $\text{♊}$ 14'18	
evening set	14462 Oct 21 22:06	27° $\text{♊}$ 14'32		inferior conj	14463 Oct 11 14:04	4° $\text{♊}$ 09'44	-1°24'08
inferior conj	14462 Oct 30 11:10	23° $\text{♊}$ 04'06	-3°10'55	minimum elong	14463 Oct 11 10:44	4° $\text{♊}$ 16'12	1°22'18
minimum elong	14462 Oct 30 03:10	23° $\text{♊}$ 17'24	3°07'14	min. Earth dist.	14463 Oct 14 19:14	1° $\text{♊}$ 40'39	0.57668 AU
min. Earth dist.	14462 Nov 02 02:32	21° $\text{♊}$ 19'03	0.55853 AU				

	14463 Oct 17 05:37	30° $\text{R}\text{U}$		minimum elong	14464 Sep 22 14:36	16° $\text{U}\text{00}'27$	0°09'13
morning rise	14463 Oct 19 00:20	28° $\text{U}59'20$		transit middle	14464 Sep 22 14:36	16° $\text{U}\text{00}'27$	0°09'13
direct	14463 Oct 25 03:11	27° $\text{U}24'28$		transit begin	14464 Sep 22 11:51	16° $\text{U}06'41$	
	14463 Nov 02 05:31	0° $\text{M}$		transit end	14464 Sep 22 17:22	15° $\text{U}54'12$	
morning max el	14463 Nov 08 10:11	4° $\text{M}56'20$	26°58'50	desc. node	14464 Sep 23 02:04	15° $\text{U}34'25$	
	14463 Nov 26 18:47	0° $\text{J}$		min. Earth dist.	14464 Sep 25 20:12	13° $\text{U}06'16$	0.59874 AU
asc. node	14463 Dec 01 12:47	8° $\text{J}38'01$		morning rise	14464 Sep 29 14:00	10° $\text{U}18'10$	
morning set	14463 Dec 08 09:49	22° $\text{J}35'18$		direct	14464 Oct 06 02:55	8° $\text{U}16'41$	
	14463 Dec 11 19:26	0° $\text{Z}$		morning max el	14464 Oct 20 09:58	16° $\text{U}06'22$	27°47'47
					14464 Oct 31 19:45	0° $\text{M}$	
superior conj	14463 Dec 15 05:45	7° $\text{Z}38'43$	1°36'05	asc. node	14464 Nov 17 09:40	28° $\text{M}11'38$	
minimum elong	14463 Dec 15 04:55	7° $\text{Z}34'02$	1°37'06		14464 Nov 18 07:27	0° $\text{J}$	
max. Earth dist.	14463 Dec 15 12:02	8° $\text{Z}13'48$	1.31196 AU	morning set	14464 Nov 21 15:26	6° $\text{J}50'56$	
evening rise	14463 Dec 22 01:41	22° $\text{Z}39'15$		max. Earth dist.	14464 Nov 27 19:49	20° $\text{J}18'08$	1.31170 AU
	14463 Dec 25 14:42	0° $\approx$					
desc. node	14464 Jan 03 02:40	15° $\approx49'18$		superior conj	14464 Nov 28 17:07	22° $\text{J}16'52$	1°28'26
	14464 Jan 12 09:01	0° $\text{X}$		minimum elong	14464 Nov 28 15:25	22° $\text{J}07'25$	1°29'17
evening max el	14464 Jan 21 16:19	10° $\text{X}47'28$	27°03'23		14464 Dec 02 04:11	0° $\text{Z}$	
retrograde	14464 Feb 04 16:08	18° $\text{X}02'17$		evening rise	14464 Dec 05 09:52	7° $\text{Z}05'25$	
evening set	14464 Feb 11 09:04	16° $\text{X}05'54$			14464 Dec 17 04:02	0° $\approx$	
min. Earth dist.	14464 Feb 15 06:37	13° $\text{X}24'38$	0.59895 AU	desc. node	14464 Dec 19 23:35	4° $\approx38'36$	
inferior conj	14464 Feb 18 11:26	10° $\text{X}47'27$	-2°51'30	evening max el	14465 Jan 02 13:29	22° $\approx01'26$	26°00'01
minimum elong	14464 Feb 18 17:45	10° $\text{X}34'29$	2°48'40	retrograde	14465 Jan 16 12:09	29° $\approx04'51$	
morning rise	14464 Feb 26 05:45	6° $\text{X}03'20$		evening set	14465 Jan 22 16:26	27° $\approx35'02$	
asc. node	14464 Feb 27 10:34	5° $\text{X}50'09$		min. Earth dist.	14465 Jan 27 02:38	24° $\approx57'36$	0.57755 AU
direct	14464 Feb 28 06:35	5° $\text{X}47'26$		inferior conj	14465 Jan 30 02:59	22° $\approx49'12$	-4°17'00
morning max el	14464 Mar 06 17:41	9° $\text{X}30'30$	18°04'34	minimum elong	14465 Jan 30 11:50	22° $\approx33'27$	4°13'37
	14464 Mar 20 02:21	0° $\text{Y}$		morning rise	14465 Feb 07 10:13	18° $\approx26'36$	
morning set	14464 Mar 22 07:39	4° $\text{Y}06'37$		direct	14465 Feb 09 10:57	18° $\approx13'22$	
desc. node	14464 Mar 31 04:38	20° $\text{Y}24'02$		asc. node	14465 Feb 13 08:00	19° $\approx04'30$	
				morning max el	14465 Feb 18 00:41	22° $\approx25'38$	18°41'55
superior conj	14464 Apr 01 06:55	22° $\text{Y}21'10$	-0°08'51		14465 Feb 23 23:26	0° $\text{X}$	
minimum elong	14464 Apr 01 06:10	22° $\text{Y}17'51$	0°09'01	morning set	14465 Mar 06 03:31	18° $\text{X}18'51$	
behind sun begin	14464 Mar 31 23:41	21° $\text{Y}49'03$			14465 Mar 12 04:16	0° $\text{Y}$	
behind sun end	14464 Apr 01 12:39	22° $\text{Y}46'36$					
	14464 Apr 05 16:07	0° $\text{B}$		superior conj	14465 Mar 14 22:35	5° $\text{Y}14'12$	0°25'17
max. Earth dist.	14464 Apr 08 21:20	5° $\text{B}26'31$	1.42006 AU	minimum elong	14465 Mar 15 00:14	5° $\text{Y}21'54$	0°25'01
evening rise	14464 Apr 14 03:26	14° $\text{B}02'21$		desc. node	14465 Mar 18 01:11	10° $\text{Y}58'57$	
	14464 Apr 24 11:05	0° $\text{II}$		max. Earth dist.	14465 Mar 22 05:05	18° $\text{Y}24'57$	1.39825 AU
	14464 May 17 03:23	0° $\text{E}$		evening rise	14465 Mar 26 05:49	25° $\text{Y}19'45$	
evening max el	14464 May 17 11:33	0° $\text{E}20'35$	22°38'25		14465 Mar 29 01:23	0° $\text{B}$	
asc. node	14464 May 25 07:24	5° $\text{E}51'51$			14465 Apr 18 04:01	0° $\text{II}$	
retrograde	14464 May 27 10:45	6° $\text{E}12'22$		evening max el	14465 Apr 30 01:56	14° $\text{II}14'06$	23°59'39
evening set	14464 Jun 01 08:04	4° $\text{E}09'11$		retrograde	14465 May 11 04:51	20° $\text{II}45'39$	
	14464 Jun 05 00:28	30° $\text{R}\text{II}$		asc. node	14465 May 12 04:36	20° $\text{II}41'20$	
inferior conj	14464 Jun 06 15:14	27° $\text{II}46'40$	2°57'30	evening set	14465 May 16 13:45	18° $\text{II}29'20$	
minimum elong	14464 Jun 06 13:51	27° $\text{II}51'30$	2°56'17	min. Earth dist.	14465 May 21 05:51	13° $\text{II}03'44$	0.68731 AU
min. Earth dist.	14464 Jun 06 09:26	28° $\text{II}06'54$	0.69008 AU	inferior conj	14465 May 22 00:22	12° $\text{II}00'46$	2°35'36
morning rise	14464 Jun 11 19:30	21° $\text{II}35'41$		minimum elong	14465 May 21 22:24	12° $\text{II}07'28$	2°34'13
direct	14464 Jun 16 09:01	19° $\text{II}42'11$		morning rise	14465 May 27 07:04	5° $\text{II}57'52$	
morning max el	14464 Jun 25 07:22	24° $\text{II}53'31$	21°32'47	direct	14465 May 31 08:21	4° $\text{II}24'37$	
desc. node	14464 Jun 27 05:24	26° $\text{II}54'52$		morning max el	14465 Jun 08 04:01	8° $\text{II}49'12$	20°16'25
	14464 Jun 29 21:02	0° $\text{E}$		desc. node	14465 Jun 14 02:29	15° $\text{II}43'02$	
	14464 Jul 21 02:18	0° $\text{O}$			14465 Jun 24 07:08	0° $\text{E}$	
morning set	14464 Jul 27 02:14	9° $\text{O}19'42$		morning set	14465 Jul 06 09:09	18° $\text{E}13'42$	
max. Earth dist.	14464 Aug 02 12:33	19° $\text{O}41'26$	1.42319 AU		14465 Jul 13 22:04	0° $\text{O}$	
	14464 Aug 08 16:04	0° $\text{M}$		max. Earth dist.	14465 Jul 15 22:39	3° $\text{O}13'11$	1.44152 AU
superior conj	14464 Aug 10 01:05	2° $\text{M}22'01$	-1°29'12	superior conj	14465 Jul 21 22:17	12° $\text{O}54'34$	-1°57'45
minimum elong	14464 Aug 10 07:54	2° $\text{M}51'27$	1°28'56	minimum elong	14465 Jul 22 05:23	13° $\text{O}23'43$	1°58'03
evening rise	14464 Aug 21 04:07	22° $\text{M}13'17$			14465 Aug 01 02:06	0° $\text{M}$	
asc. node	14464 Aug 21 07:50	22° $\text{M}30'11$		evening rise	14465 Aug 03 18:08	4° $\text{M}36'05$	
	14464 Aug 25 11:17	0° $\text{U}$		asc. node	14465 Aug 08 04:27	12° $\text{M}14'51$	
evening max el	14464 Sep 06 06:50	17° $\text{U}41'02$	18°07'18		14465 Aug 19 23:33	0° $\text{U}$	
retrograde	14464 Sep 13 05:45	21° $\text{U}14'23$		evening max el	14465 Aug 20 20:51	0° $\text{U}55'26$	18°02'55
evening set	14464 Sep 15 11:55	20° $\text{U}52'18$		retrograde	14465 Aug 27 07:45	4° $\text{U}16'31$	
inferior conj	14464 Sep 22 14:18	16° $\text{U}01'09$	0°09'09	evening set	14465 Aug 29 22:10	3° $\text{U}42'53$	


































































































































	14465 Sep 03 22:10	30° $\mathbb{R}$ $\mathbb{M}$		asc. node	14466 Jul 26 01:07	1° $\mathbb{M}$ 42'23	
inferior conj	14465 Sep 05 08:45	28° $\mathbb{M}$ 32'37	1°21'31	evening max el	14466 Aug 04 11:13	14° $\mathbb{M}$ 28'13	18°16'51
minimum elong	14465 Sep 05 10:50	28° $\mathbb{M}$ 27'14	1°20'41	retrograde	14466 Aug 10 20:00	17° $\mathbb{M}$ 51'05	
min. Earth dist.	14465 Sep 08 06:33	25° $\mathbb{M}$ 33'31	0.62167 AU	evening set	14466 Aug 13 19:02	17° $\mathbb{M}$ 03'12	
desc. node	14465 Sep 09 23:36	23° $\mathbb{M}$ 57'24		inferior conj	14466 Aug 19 17:21	11° $\mathbb{M}$ 36'05	2°13'09
morning rise	14465 Sep 11 21:05	22° $\mathbb{M}$ 26'44		minimum elong	14466 Aug 19 19:46	11° $\mathbb{M}$ 29'07	2°12'05
direct	14465 Sep 18 13:28	20° $\mathbb{M}$ 04'05		min. Earth dist.	14466 Aug 22 02:33	8° $\mathbb{M}$ 51'59	0.64300 AU
morning max el	14465 Oct 02 16:05	28° $\mathbb{M}$ 03'02	27°57'41	morning rise	14466 Aug 25 18:59	5° $\mathbb{M}$ 16'48	
	14465 Oct 04 13:13	0° $\mathbb{L}$		desc. node	14466 Aug 27 21:07	3° $\mathbb{M}$ 52'54	
	14465 Oct 25 15:10	0° $\mathbb{M}$		direct	14466 Sep 01 08:49	2° $\mathbb{M}$ 41'24	
asc. node	14465 Nov 04 06:28	18° $\mathbb{M}$ 01'16		morning max el	14466 Sep 15 02:10	10° $\mathbb{M}$ 39'52	27°31'10
morning set	14465 Nov 05 15:04	20° $\mathbb{M}$ 46'45			14466 Sep 30 08:40	0° $\mathbb{L}$	
	14465 Nov 10 00:09	0° $\mathbb{X}$			14466 Oct 18 01:29	0° $\mathbb{M}$	
max. Earth dist.	14465 Nov 11 00:17	2° $\mathbb{X}$ 10'39	1.31688 AU	morning set	14466 Oct 20 06:16	4° $\mathbb{M}$ 17'01	
				asc. node	14466 Oct 22 03:11	8° $\mathbb{M}$ 01'32	
superior conj	14465 Nov 13 02:35	6° $\mathbb{X}$ 46'05	1°14'55	max. Earth dist.	14466 Oct 24 21:50	13° $\mathbb{M}$ 44'22	1.32750 AU
minimum elong	14465 Nov 13 00:22	6° $\mathbb{X}$ 33'52	1°15'31				
evening rise	14465 Nov 19 20:23	21° $\mathbb{X}$ 35'54		superior conj	14466 Oct 28 08:05	21° $\mathbb{M}$ 00'44	0°55'34
	14465 Nov 23 20:16	0° $\mathbb{Z}$		minimum elong	14466 Oct 28 05:51	20° $\mathbb{M}$ 48'40	0°55'56
desc. node	14465 Dec 06 20:36	22° $\mathbb{Z}$ 37'50			14466 Nov 01 11:37	0° $\mathbb{X}$	
	14465 Dec 12 17:19	0° $\mathbb{A}$		evening rise	14466 Nov 04 07:23	6° $\mathbb{X}$ 05'53	
evening max el	14465 Dec 15 02:39	2° $\mathbb{A}$ 27'00	24°29'23		14466 Nov 16 20:20	0° $\mathbb{Z}$	
retrograde	14465 Dec 28 19:10	9° $\mathbb{A}$ 16'17		desc. node	14466 Nov 23 17:42	9° $\mathbb{Z}$ 28'49	
evening set	14466 Jan 03 00:56	8° $\mathbb{A}$ 15'59		evening max el	14466 Nov 26 12:28	12° $\mathbb{Z}$ 26'36	22°46'50
min. Earth dist.	14466 Jan 08 14:24	5° $\mathbb{A}$ 25'43	0.55958 AU	retrograde	14466 Dec 09 13:28	18° $\mathbb{Z}$ 54'43	
inferior conj	14466 Jan 10 21:36	4° $\mathbb{A}$ 00'06	-5°27'42	evening set	14466 Dec 13 11:56	18° $\mathbb{Z}$ 20'57	
minimum elong	14466 Jan 11 05:16	3° $\mathbb{A}$ 48'12	5°25'26	min. Earth dist.	14466 Dec 20 21:05	14° $\mathbb{Z}$ 58'41	0.54787 AU
morning rise	14466 Jan 19 11:35	29° $\mathbb{Z}$ 58'01		inferior conj	14466 Dec 21 21:45	14° $\mathbb{Z}$ 23'42	-5°59'13
	14466 Jan 19 07:52	30° $\mathbb{R}$ $\mathbb{Z}$		minimum elong	14466 Dec 21 22:12	14° $\mathbb{Z}$ 23'04	5°58'11
direct	14466 Jan 21 20:11	29° $\mathbb{Z}$ 43'09		morning rise	14466 Dec 30 09:49	10° $\mathbb{Z}$ 35'27	
	14466 Jan 24 06:50	0° $\mathbb{A}$		direct	14467 Jan 02 11:44	10° $\mathbb{Z}$ 13'36	
asc. node	14466 Jan 31 05:25	3° $\mathbb{A}$ 58'27		morning max el	14467 Jan 14 01:26	15° $\mathbb{Z}$ 46'22	21°04'31
morning max el	14466 Jan 31 20:15	4° $\mathbb{A}$ 33'16	19°41'40	asc. node	14467 Jan 18 02:45	20° $\mathbb{Z}$ 17'25	
	14466 Feb 16 21:18	0° $\mathbb{X}$			14467 Jan 24 14:05	0° $\mathbb{A}$	
morning set	14466 Feb 18 07:12	2° $\mathbb{X}$ 50'08		morning set	14467 Feb 02 15:49	17° $\mathbb{A}$ 32'03	
					14467 Feb 08 14:45	0° $\mathbb{X}$	
superior conj	14466 Feb 26 05:37	18° $\mathbb{X}$ 48'06	0°53'06				
minimum elong	14466 Feb 26 08:13	19° $\mathbb{X}$ 00'57	0°53'00	superior conj	14467 Feb 09 23:57	2° $\mathbb{X}$ 51'57	1°14'06
	14466 Mar 04 01:47	0° $\mathbb{Y}$		minimum elong	14467 Feb 10 02:29	3° $\mathbb{X}$ 05'00	1°14'21
max. Earth dist.	14466 Mar 04 11:34	0° $\mathbb{Y}$ 45'23	1.37557 AU	max. Earth dist.	14467 Feb 14 21:05	12° $\mathbb{X}$ 41'59	1.35439 AU
desc. node	14466 Mar 04 21:42	1° $\mathbb{Y}$ 32'05		evening rise	14467 Feb 18 20:44	20° $\mathbb{X}$ 20'07	
evening rise	14466 Mar 08 04:34	7° $\mathbb{Y}$ 28'25		desc. node	14467 Feb 19 18:14	21° $\mathbb{X}$ 59'57	
	14466 Mar 21 22:02	0° $\mathbb{Z}$			14467 Feb 24 05:18	0° $\mathbb{Y}$	
evening max el	14466 Apr 12 15:32	28° $\mathbb{Z}$ 08'01	25°17'05		14467 Mar 15 21:20	0° $\mathbb{Z}$	
	14466 Apr 14 15:21	0° $\mathbb{I}$		evening max el	14467 Mar 26 05:12	11° $\mathbb{Z}$ 56'55	26°23'27
retrograde	14466 Apr 24 18:44	5° $\mathbb{I}$ 09'54		retrograde	14467 Apr 08 03:34	19° $\mathbb{Z}$ 18'03	
asc. node	14466 Apr 29 01:54	3° $\mathbb{I}$ 52'07		evening set	14467 Apr 14 10:31	16° $\mathbb{Z}$ 46'13	
evening set	14466 Apr 30 15:09	2° $\mathbb{I}$ 43'37		asc. node	14467 Apr 15 23:16	15° $\mathbb{Z}$ 22'46	
	14466 May 03 07:08	30° $\mathbb{R}$ $\mathbb{Z}$		min. Earth dist.	14467 Apr 18 12:50	12° $\mathbb{Z}$ 32'14	0.66810 AU
min. Earth dist.	14466 May 04 23:41	27° $\mathbb{Z}$ 54'26	0.67992 AU	inferior conj	14467 Apr 20 08:46	10° $\mathbb{Z}$ 18'36	1°19'43
inferior conj	14466 May 06 06:54	26° $\mathbb{Z}$ 12'58	2°03'12	minimum elong	14467 Apr 20 06:58	10° $\mathbb{Z}$ 24'05	1°18'30
minimum elong	14466 May 06 04:45	26° $\mathbb{Z}$ 20'00	2°01'47	morning rise	14467 Apr 26 04:22	4° $\mathbb{Z}$ 36'11	
morning rise	14466 May 11 18:42	20° $\mathbb{Z}$ 19'33		direct	14467 Apr 29 07:22	3° $\mathbb{Z}$ 41'15	
direct	14466 May 15 08:24	19° $\mathbb{Z}$ 06'19		morning max el	14467 May 05 19:09	7° $\mathbb{Z}$ 08'00	18°27'53
morning max el	14466 May 22 08:09	22° $\mathbb{Z}$ 55'21	19°14'07	desc. node	14467 May 18 20:18	24° $\mathbb{Z}$ 56'11	
	14466 May 28 07:28	0° $\mathbb{I}$			14467 May 22 02:00	0° $\mathbb{I}$	
desc. node	14466 May 31 23:28	5° $\mathbb{I}$ 06'41		morning set	14467 May 26 09:50	6° $\mathbb{I}$ 49'12	
greatest brilliancy	14466 Jun 04 03:46	9° $\mathbb{I}$ 46'05	-0.7m		14467 Jun 10 04:31	0° $\mathbb{Z}$	
morning set	14466 Jun 15 12:51	27° $\mathbb{I}$ 04'42					
	14466 Jun 17 10:19	0° $\mathbb{Z}$		superior conj	14467 Jun 11 05:59	1° $\mathbb{Z}$ 39'20	-2°08'43
max. Earth dist.	14466 Jun 28 14:52	17° $\mathbb{Z}$ 24'13	1.45384 AU	minimum elong	14467 Jun 11 00:39	1° $\mathbb{Z}$ 18'31	2°09'33
				max. Earth dist.	14467 Jun 11 10:28	1° $\mathbb{Z}$ 56'49	1.45896 AU
superior conj	14466 Jul 01 20:52	22° $\mathbb{Z}$ 31'32	-2°12'53	evening rise	14467 Jun 27 01:33	26° $\mathbb{Z}$ 25'48	
minimum elong	14466 Jul 01 23:14	22° $\mathbb{Z}$ 40'56	2°13'50		14467 Jun 29 07:54	0° $\mathbb{Z}$	
	14466 Jul 06 13:31	0° $\mathbb{Z}$		greatest brilliancy	14467 Jul 05 23:14	10° $\mathbb{Z}$ 24'45	-0.8m
evening rise	14466 Jul 16 10:13	16° $\mathbb{Z}$ 01'47		asc. node	14467 Jul 12 21:51	20° $\mathbb{Z}$ 46'28	
	14466 Jul 24 23:19	0° $\mathbb{M}$		evening max el	14467 Jul 18 22:59	28° $\mathbb{Z}$ 11'58	18°48'17

	14467 Jul 21 00:17	0°♍			14468 Jun 21 18:18	0°♊		
retrograde	14467 Jul 25 14:38	1°♍49'50		asc. node	14468 Jun 28 18:40	9°♊19'07		
evening set	14467 Jul 28 22:38	0°♍45'58		evening max el	14468 Jul 01 06:04	12°♊01'22	19°36'15	
	14467 Jul 29 23:55	30°♋♊		retrograde	14468 Jul 08 12:37	16°♊06'34		
inferior conj	14467 Aug 03 12:20	25°♊04'01	2°46'44	evening set	14468 Jul 12 06:11	14°♊45'42		
minimum elong	14467 Aug 03 14:15	24°♊58'02	2°45'42	inferior conj	14468 Jul 17 14:35	8°♊50'32	3°05'12	
min. Earth dist.	14467 Aug 05 07:22	22°♊49'22	0.66121 AU	minimum elong	14468 Jul 17 15:36	8°♊47'10	3°04'14	
morning rise	14467 Aug 09 04:59	18°♊39'05		min. Earth dist.	14468 Jul 18 19:22	7°♊14'49	0.67534 AU	
desc. node	14467 Aug 14 18:36	16°♊02'00		morning rise	14468 Jul 23 00:31	2°♊25'43		
direct	14467 Aug 15 11:54	16°♊00'04			14468 Jul 27 11:37	30°♋♊		
morning max el	14467 Aug 28 13:34	23°♊45'09	26°34'53	direct	14468 Jul 28 21:34	29°♊51'37		
	14467 Sep 03 03:41	0°♍			14468 Jul 30 08:38	0°♊		
	14467 Sep 23 17:33	0°♊		desc. node	14468 Jul 31 16:01	0°♊20'43		
morning set	14467 Oct 03 09:54	17°♊13'41		morning max el	14468 Aug 10 00:28	7°♊07'30	25°18'02	
max. Earth dist.	14467 Oct 07 09:37	24°♊56'42	1.34345 AU		14468 Aug 27 20:28	0°♍		
asc. node	14467 Oct 08 23:47	28°♊07'18		morning set	14468 Sep 14 22:16	29°♍28'50		
	14467 Oct 09 22:03	0°♌			14468 Sep 15 05:12	0°♊		
				max. Earth dist.	14468 Sep 18 12:01	6°♊01'13	1.36399 AU	
superior conj	14467 Oct 12 07:13	4°♌53'51	0°30'32					
minimum elong	14467 Oct 12 05:38	4°♌45'41	0°30'44	superior conj	14468 Sep 24 21:10	18°♊19'23	0°00'19	
evening rise	14467 Oct 19 16:55	20°♌29'26		minimum elong	14468 Sep 24 21:08	18°♊19'14	0°00'33	
	14467 Oct 24 08:34	0°♌		behind sun begin	14468 Sep 24 14:46	17°♊47'39		
evening max el	14467 Nov 08 04:24	22°♌36'48	21°10'06	behind sun end	14468 Sep 25 03:30	18°♊50'54		
desc. node	14467 Nov 10 14:55	24°♌46'59		asc. node	14468 Sep 24 20:21	18°♊15'20		
retrograde	14467 Nov 20 00:21	28°♌29'13			14468 Sep 30 15:40	0°♌		
evening set	14467 Nov 22 16:18	28°♌12'35		evening rise	14468 Oct 02 22:52	4°♌41'57		
inferior conj	14467 Dec 01 12:56	24°♌19'57	-5°32'01		14468 Oct 17 08:39	0°♌		
minimum elong	14467 Dec 01 04:56	24°♌31'15	5°29'37	evening max el	14468 Oct 20 09:52	3°♌28'48	19°51'05	
min. Earth dist.	14467 Dec 02 02:48	24°♌00'21	0.54470 AU	desc. node	14468 Oct 27 12:12	8°♌06'28		
morning rise	14467 Dec 09 18:03	20°♌29'07		retrograde	14468 Oct 30 14:47	8°♌34'06		
direct	14467 Dec 13 18:55	19°♌54'03		evening set	14468 Nov 01 14:12	8°♌23'32		
morning max el	14467 Dec 26 17:16	26°♌08'59	22°46'40	inferior conj	14468 Nov 10 09:48	4°♌23'01	-4°11'00	
	14467 Dec 30 07:57	0°♊		minimum elong	14468 Nov 09 23:57	4°♌38'08	4°07'02	
asc. node	14468 Jan 05 00:00	7°♊42'45		min. Earth dist.	14468 Nov 12 10:48	3°♌07'43	0.55102 AU	
	14468 Jan 17 01:03	0°♋		morning rise	14468 Nov 18 08:15	0°♌09'37		
morning set	14468 Jan 18 03:02	2°♋17'11			14468 Nov 18 19:32	30°♋♌		
				direct	14468 Nov 23 08:00	29°♌14'50		
superior conj	14468 Jan 25 02:13	17°♋15'33	1°28'21		14468 Nov 27 19:03	0°♌		
minimum elong	14468 Jan 25 04:03	17°♋25'21	1°28'59	morning max el	14468 Dec 07 02:37	6°♌05'29	24°36'03	
max. Earth dist.	14468 Jan 28 13:04	24°♋32'06	1.33649 AU	asc. node	14468 Dec 21 21:09	25°♌58'40		
	14468 Jan 31 05:19	0°♋			14468 Dec 24 03:30	0°♊		
evening rise	14468 Feb 02 02:45	3°♋45'20		morning set	14469 Jan 01 14:57	17°♊00'05		
desc. node	14468 Feb 06 14:48	12°♋17'52			14469 Jan 07 13:30	0°♋		
	14468 Feb 17 00:58	0°♍						
evening max el	14468 Mar 07 18:38	25°♍32'12	27°11'26	superior conj	14469 Jan 08 09:43	1°♋51'04	1°36'10	
	14468 Mar 13 03:16	0°♋		minimum elong	14469 Jan 08 10:33	1°♋55'38	1°37'05	
retrograde	14468 Mar 21 06:33	3°♋01'36		max. Earth dist.	14469 Jan 10 12:40	6°♋28'45	1.32302 AU	
evening set	14468 Mar 27 21:53	0°♋30'14		evening rise	14469 Jan 15 19:24	17°♋36'04		
	14468 Mar 28 13:01	30°♋♍			14469 Jan 22 04:34	0°♋		
min. Earth dist.	14468 Mar 31 19:21	26°♍49'02	0.65222 AU	desc. node	14469 Jan 23 11:25	2°♋20'48		
asc. node	14468 Apr 01 20:42	25°♍38'55			14469 Feb 10 11:18	0°♍		
inferior conj	14468 Apr 03 03:35	24°♍12'05	0°24'21	evening max el	14469 Feb 18 06:44	8°♍43'08	27°33'53	
minimum elong	14468 Apr 03 02:55	24°♍13'57	0°23'45	retrograde	14469 Mar 04 02:38	16°♍10'57		
morning rise	14468 Apr 09 09:41	18°♍42'30		evening set	14469 Mar 10 22:49	13°♍47'21		
direct	14468 Apr 12 03:05	18°♍03'03		min. Earth dist.	14469 Mar 14 17:24	10°♍34'56	0.63303 AU	
morning max el	14468 Apr 18 10:54	21°♍20'11	17°58'32	inferior conj	14469 Mar 17 12:32	7°♍46'23	-0°43'20	
	14468 Apr 25 06:18	0°♋		minimum elong	14469 Mar 17 13:56	7°♍42'50	0°42'47	
desc. node	14468 May 04 17:03	15°♋04'22		asc. node	14469 Mar 19 18:11	5°♍36'25		
morning set	14468 May 06 10:23	17°♋54'04		morning rise	14469 Mar 24 07:35	2°♍31'59		
	14468 May 13 20:28	0°♌		direct	14469 Mar 26 16:49	2°♍04'29		
				morning max el	14469 Apr 02 04:37	5°♍23'24	17°46'28	
superior conj	14468 May 20 18:30	11°♌02'58	-1°45'29		14469 Apr 18 09:56	0°♋		
minimum elong	14468 May 20 09:32	10°♌27'31	1°45'37	morning set	14469 Apr 18 13:08	0°♋13'48		
max. Earth dist.	14468 May 24 06:26	16°♌33'08	1.45653 AU	desc. node	14469 Apr 21 13:42	5°♋25'24		
	14468 Jun 01 22:06	0°♊						
evening rise	14468 Jun 05 20:05	6°♊01'49		superior conj	14469 May 01 01:02	21°♋18'46	-1°09'59	
greatest brilliancy	14468 Jun 19 13:18	26°♊47'44	-0.7m	minimum elong	14469 Apr 30 18:10	20°♋50'40	1°09'48	

	14469 May 06 09:59	0°♂		max. Earth dist.	14470 Apr 19 15:43	15°♂00'24	1.43134 AU
max. Earth dist.	14469 May 07 00:42	0°♂58'38	1.44700 AU	evening rise	14470 Apr 26 02:23	25°♂19'39	
evening rise	14469 May 16 06:55	15°♂25'55			14470 Apr 29 02:28	0°♂	
	14469 May 25 22:38	0°♂			14470 May 19 21:14	0°♂	
evening max el	14469 Jun 14 07:21	25°♂52'08	20°38'52	evening max el	14470 May 28 03:05	9°♂43'24	21°52'39
asc. node	14469 Jun 15 15:37	27°♂08'45		asc. node	14470 Jun 02 12:39	14°♂01'48	
	14469 Jun 19 20:30	0°♂		retrograde	14470 Jun 06 09:43	15°♂09'04	
retrograde	14469 Jun 22 11:34	0°♂34'34		evening set	14470 Jun 11 00:36	13°♂14'30	
	14469 Jun 24 23:17	30°♂♂		inferior conj	14470 Jun 16 06:44	6°♂57'09	3°05'24
evening set	14469 Jun 26 15:26	28°♂56'33		minimum elong	14470 Jun 16 05:48	7°♂00'23	3°04'17
inferior conj	14469 Jul 01 21:27	22°♂49'31	3°10'55	min. Earth dist.	14470 Jun 16 08:21	6°♂51'28	0.68966 AU
minimum elong	14469 Jul 01 21:27	22°♂49'29	3°09'55	morning rise	14470 Jun 21 10:49	0°♂42'15	
min. Earth dist.	14469 Jul 02 12:24	21°♂57'58	0.68489 AU		14470 Jun 22 08:17	30°♂♂	
morning rise	14469 Jul 07 03:10	16°♂28'32		direct	14470 Jun 26 07:40	28°♂♂37'31	
direct	14469 Jul 12 12:33	14°♂06'36			14470 Jun 30 16:46	0°♂	
desc. node	14469 Jul 18 13:23	16°♂24'11		desc. node	14470 Jul 05 10:40	3°♂47'17	
morning max el	14469 Jul 23 10:53	20°♂38'38	23°50'27	morning max el	14470 Jul 05 23:01	4°♂17'47	22°21'25
	14469 Jul 31 11:38	0°♂			14470 Jul 25 14:54	0°♂	
	14469 Aug 21 01:17	0°♂		morning set	14470 Aug 08 07:46	21°♂10'57	
morning set	14469 Aug 27 14:52	10°♂51'01		max. Earth dist.	14470 Aug 13 10:29	29°♂36'56	1.41083 AU
max. Earth dist.	14469 Aug 31 10:00	17°♂25'35	1.38733 AU		14470 Aug 13 15:58	0°♂	
	14469 Sep 07 07:47	0°♂		superior conj	14470 Aug 21 06:30	13°♂11'13	-1°09'32
superior conj	14469 Sep 07 22:21	1°♂08'33	-0°33'51	minimum elong	14470 Aug 21 11:53	13°♂35'13	1°09'09
minimum elong	14469 Sep 08 00:46	1°♂19'57	0°33'30	asc. node	14470 Aug 29 13:27	28°♂22'55	
asc. node	14469 Sep 11 16:54	8°♂21'46			14470 Aug 30 10:12	0°♂	
evening rise	14469 Sep 16 22:37	18°♂36'27		evening rise	14470 Aug 31 12:47	2°♂04'27	
	14469 Sep 22 21:43	0°♂		evening max el	14470 Sep 16 11:15	27°♂36'11	18°18'25
evening max el	14469 Oct 03 05:19	15°♂10'41	18°53'56		14470 Sep 19 10:12	0°♂	
retrograde	14469 Oct 11 20:25	19°♂31'02		retrograde	14470 Sep 23 21:42	1°♂22'55	
evening set	14469 Oct 13 17:35	19°♂19'28		evening set	14470 Sep 25 23:44	1°♂05'46	
desc. node	14469 Oct 14 09:36	19°♂10'02			14470 Sep 28 14:29	30°♂♂	
inferior conj	14469 Oct 22 00:08	15°♂01'04	-2°24'53	desc. node	14470 Oct 01 07:05	28°♂12'32	
minimum elong	14469 Oct 21 18:04	15°♂11'47	2°21'52	inferior conj	14470 Oct 03 12:18	26°♂26'00	-0°42'11
min. Earth dist.	14469 Oct 24 23:20	12°♂55'26	0.56563 AU	minimum elong	14470 Oct 03 10:45	26°♂29'14	0°41'10
morning rise	14469 Oct 29 15:32	10°♂12'36		min. Earth dist.	14470 Oct 06 19:01	23°♂43'43	0.58582 AU
direct	14469 Nov 04 10:17	8°♂53'06		morning rise	14470 Oct 10 18:19	21°♂01'00	
morning max el	14469 Nov 18 14:22	16°♂11'11	26°14'22	direct	14470 Oct 17 02:16	19°♂14'42	
	14469 Nov 29 20:02	0°♂		morning max el	14470 Oct 31 09:37	26°♂54'05	27°24'28
asc. node	14469 Dec 08 18:12	14°♂52'35			14470 Nov 03 08:50	0°♂	
	14469 Dec 16 07:50	0°♂			14470 Nov 23 09:39	0°♂	
morning set	14469 Dec 17 01:51	1°♂36'20		asc. node	14470 Nov 25 15:08	4°♂14'05	
				morning set	14470 Dec 01 09:54	16°♂00'46	
superior conj	14469 Dec 23 20:15	16°♂32'12	1°37'51		14470 Dec 07 18:50	0°♂	
minimum elong	14469 Dec 23 20:01	16°♂30'49	1°38'52	superior conj	14470 Dec 08 07:49	1°♂12'39	1°33'34
max. Earth dist.	14469 Dec 24 18:15	18°♂34'32	1.31451 AU	minimum elong	14470 Dec 08 06:35	1°♂05'46	1°34'31
	14469 Dec 29 23:57	0°♂		max. Earth dist.	14470 Dec 08 02:27	0°♂42'36	1.31121 AU
evening rise	14469 Dec 30 19:55	1°♂45'28		evening rise	14470 Dec 15 01:54	16°♂06'50	
desc. node	14470 Jan 10 08:08	22°♂02'29			14470 Dec 21 21:56	0°♂	
	14470 Jan 15 02:35	0°♂		desc. node	14470 Dec 28 04:57	11°♂13'56	
evening max el	14470 Jan 31 15:12	21°♂17'05	27°24'39		14471 Jan 10 18:06	0°♂	
retrograde	14470 Feb 14 14:24	28°♂36'50		evening max el	14471 Jan 13 17:03	3°♂01'13	26°40'26
evening set	14470 Feb 21 10:29	26°♂28'39		retrograde	14471 Jan 27 16:21	10°♂10'39	
min. Earth dist.	14470 Feb 25 05:29	23°♂38'41	0.61163 AU	evening set	14471 Feb 03 05:16	8°♂24'56	
inferior conj	14470 Feb 28 08:18	20°♂52'59	-2°02'19	min. Earth dist.	14471 Feb 07 06:49	5°♂47'19	0.58963 AU
minimum elong	14470 Feb 28 12:41	20°♂43'13	2°00'17	inferior conj	14471 Feb 10 11:05	3°♂20'35	-3°28'18
asc. node	14470 Mar 06 15:39	16°♂20'49		minimum elong	14471 Feb 10 18:42	3°♂05'52	3°25'03
morning rise	14470 Mar 07 18:00	15°♂56'42			14471 Feb 15 08:03	30°♂♂	
direct	14470 Mar 09 21:08	15°♂37'31		morning rise	14471 Feb 18 11:20	28°♂45'28	
morning max el	14470 Mar 16 21:06	19°♂08'44	17°52'29	direct	14471 Feb 20 11:36	28°♂31'01	
	14470 Mar 24 19:48	0°♂		asc. node	14471 Feb 21 13:09	28°♂35'13	
morning set	14470 Apr 01 12:17	13°♂30'53			14471 Feb 25 08:07	0°♂	
desc. node	14470 Apr 08 10:18	25°♂55'04		morning max el	14471 Feb 28 08:40	2°♂24'58	18°17'54
	14470 Apr 10 18:12	0°♂		morning set	14471 Mar 16 01:55	27°♂26'35	
superior conj	14470 Apr 12 07:27	2°♂41'08	-0°30'41		14471 Mar 17 10:17	0°♂	
minimum elong	14470 Apr 12 04:39	2°♂29'06	0°30'43				

superior conj	14471 Mar 25 12:10	15° $\Upsilon$ 04'13	0°06'20	minimum elong	14472 Mar 07 13:05	28° $\text{X}$ 26'27	0°37'41
minimum elong	14471 Mar 25 12:37	15° $\Upsilon$ 06'18	0°06'05		14472 Mar 08 08:42	0° $\Upsilon$	
behind sun begin	14471 Mar 25 05:44	14° $\Upsilon$ 35'01		desc. node	14472 Mar 12 03:20	7° $\Upsilon$ 02'59	
behind sun end	14471 Mar 25 19:30	15° $\Upsilon$ 37'30		max. Earth dist.	14472 Mar 14 08:41	11° $\Upsilon$ 04'29	1.38852 AU
desc. node	14471 Mar 26 06:49	16° $\Upsilon$ 28'43		evening rise	14472 Mar 18 03:36	17° $\Upsilon$ 43'10	
max. Earth dist.	14471 Apr 02 02:09	28° $\Upsilon$ 24'25	1.41107 AU		14472 Mar 25 13:39	0° $\text{X}$	
	14471 Apr 03 00:43	0° $\text{X}$			14472 Apr 15 15:45	0° $\Pi$	
evening rise	14471 Apr 06 16:24	6° $\text{X}$ 04'00		evening max el	14472 Apr 22 08:20	7° $\Pi$ 28'15	24°33'27
	14471 Apr 22 06:13	0° $\Pi$		retrograde	14472 May 03 22:14	14° $\Pi$ 14'42	
evening max el	14471 May 10 18:43	23° $\Pi$ 35'21	23°12'54	asc. node	14472 May 06 07:05	13° $\Pi$ 50'17	
asc. node	14471 May 20 09:49	29° $\Pi$ 41'29		evening set	14472 May 09 12:07	11° $\Pi$ 53'24	
retrograde	14471 May 21 05:41	29° $\Pi$ 44'33		min. Earth dist.	14472 May 14 00:42	6° $\Pi$ 43'30	0.68469 AU
evening set	14471 May 26 08:02	27° $\Pi$ 35'11		inferior conj	14472 May 15 00:42	5° $\Pi$ 23'11	2°23'11
min. Earth dist.	14471 May 31 05:09	21° $\Pi$ 48'47	0.68954 AU	minimum elong	14472 May 14 22:36	5° $\Pi$ 30'14	2°21'46
inferior conj	14471 May 31 16:27	21° $\Pi$ 09'43	2°49'28		14472 May 19 15:26	30° $\text{R}$ $\text{X}$	
minimum elong	14471 May 31 14:47	21° $\Pi$ 15'29	2°48'10	morning rise	14472 May 20 09:15	29° $\text{X}$ 24'15	
morning rise	14471 Jun 05 21:28	15° $\Pi$ 02'17		direct	14472 May 24 05:24	27° $\text{X}$ 59'53	
direct	14471 Jun 10 05:43	13° $\Pi$ 17'29			14472 May 29 04:59	0° $\Pi$	
morning max el	14471 Jun 18 15:58	18° $\Pi$ 07'25	20°58'48	morning max el	14472 May 31 15:51	2° $\Pi$ 08'04	19°48'03
desc. node	14471 Jun 22 07:50	22° $\Pi$ 09'06		desc. node	14472 Jun 08 04:53	11° $\Pi$ 13'37	
	14471 Jun 28 09:56	0° $\text{X}$			14472 Jun 21 01:58	0° $\text{X}$	
	14471 Jul 18 17:06	0° $\Omega$		morning set	14472 Jun 27 03:55	9° $\text{X}$ 16'13	
morning set	14471 Jul 19 00:58	0° $\Omega$ 30'36		max. Earth dist.	14472 Jul 08 05:49	26° $\text{X}$ 31'48	1.44752 AU
max. Earth dist.	14471 Jul 26 17:08	12° $\Omega$ 42'22	1.43164 AU		14472 Jul 10 10:14	0° $\Omega$	
superior conj	14471 Aug 02 17:18	24° $\Omega$ 18'06	-1°42'29	superior conj	14472 Jul 13 04:22	4° $\Omega$ 25'12	-2°06'15
minimum elong	14471 Aug 03 00:43	24° $\Omega$ 49'25	1°42'24	minimum elong	14472 Jul 13 10:08	4° $\Omega$ 48'29	2°06'52
	14471 Aug 06 01:27	0° $\text{X}$		evening rise	14472 Jul 26 18:26	26° $\Omega$ 55'15	
evening rise	14471 Aug 14 13:08	14° $\text{X}$ 55'15			14472 Jul 28 14:05	0° $\text{X}$	
asc. node	14471 Aug 16 10:01	18° $\text{X}$ 15'05		asc. node	14472 Aug 02 06:39	7° $\text{X}$ 53'10	
	14471 Aug 23 05:12	0° $\text{X}$		evening max el	14472 Aug 13 13:56	23° $\text{X}$ 58'38	18°06'38
evening max el	14471 Aug 30 23:25	10° $\text{X}$ 35'37	18°03'05	retrograde	14472 Aug 19 22:59	27° $\text{X}$ 19'05	
retrograde	14471 Sep 06 16:05	14° $\text{X}$ 02'25		evening set	14472 Aug 22 16:53	26° $\text{X}$ 39'52	
evening set	14471 Sep 09 01:36	13° $\text{X}$ 35'52		inferior conj	14472 Aug 28 21:49	21° $\text{X}$ 22'18	1°45'50
inferior conj	14471 Sep 15 20:51	8° $\text{X}$ 36'02	0°42'30	minimum elong	14472 Aug 29 00:11	21° $\text{X}$ 15'53	1°44'50
minimum elong	14471 Sep 15 22:07	8° $\text{X}$ 32'58	0°42'05	min. Earth dist.	14472 Aug 31 14:40	18° $\text{X}$ 27'10	0.63101 AU
desc. node	14471 Sep 18 04:37	6° $\text{X}$ 21'51		morning rise	14472 Sep 04 05:24	15° $\text{X}$ 09'19	
min. Earth dist.	14471 Sep 18 23:58	5° $\text{X}$ 36'51	0.60850 AU	desc. node	14472 Sep 04 02:10	15° $\text{X}$ 15'26	
morning rise	14471 Sep 22 15:41	2° $\text{X}$ 41'49		direct	14472 Sep 10 21:17	12° $\text{X}$ 39'55	
direct	14471 Sep 29 06:37	0° $\text{X}$ 30'44		morning max el	14472 Sep 24 20:57	20° $\text{X}$ 41'03	27°50'29
morning max el	14471 Oct 13 12:40	8° $\text{X}$ 25'34	27°56'52		14472 Oct 02 22:16	0° $\text{X}$	
	14471 Oct 30 01:56	0° $\text{X}$			14472 Oct 22 03:40	0° $\text{X}$	
asc. node	14471 Nov 12 11:59	23° $\text{X}$ 55'28		morning set	14472 Oct 29 09:38	13° $\text{X}$ 54'39	
	14471 Nov 15 11:32	0° $\text{X}$		asc. node	14472 Oct 29 08:43	13° $\text{X}$ 50'01	
morning set	14471 Nov 15 13:16	0° $\text{X}$ 08'58		max. Earth dist.	14472 Nov 03 11:14	24° $\text{X}$ 28'09	1.32069 AU
max. Earth dist.	14471 Nov 21 09:28	12° $\text{X}$ 44'02	1.31324 AU				
superior conj	14471 Nov 22 18:36	15° $\text{X}$ 47'38	1°23'24	superior conj	14472 Nov 06 02:37	0° $\text{X}$ 11'05	1°07'24
minimum elong	14471 Nov 22 16:38	15° $\text{X}$ 36'41	1°24'10	minimum elong	14472 Nov 06 00:19	29° $\text{X}$ 58'32	1°07'54
evening rise	14471 Nov 29 11:18	0° $\text{X}$ 35'22		evening rise	14472 Nov 06 00:35	0° $\text{X}$	
	14471 Nov 29 04:46	0° $\text{X}$			14472 Nov 12 22:12	15° $\text{X}$ 05'40	
desc. node	14471 Dec 15 01:53	29° $\text{X}$ 43'54		desc. node	14472 Nov 20 05:40	0° $\text{X}$	
	14471 Dec 15 06:08	0° $\text{X}$		evening max el	14472 Nov 30 22:55	17° $\text{X}$ 16'35	
evening max el	14471 Dec 26 10:23	13° $\text{X}$ 52'07	25°23'56		14472 Dec 06 21:00	24° $\text{X}$ 02'01	23°46'07
retrograde	14472 Jan 09 07:04	20° $\text{X}$ 50'27		retrograde	14472 Dec 15 22:56	0° $\text{X}$	
evening set	14472 Jan 15 03:14	19° $\text{X}$ 32'44			14472 Dec 20 08:55	0° $\text{X}$ 44'22	
min. Earth dist.	14472 Jan 19 22:42	16° $\text{X}$ 52'19	0.56934 AU	evening set	14472 Dec 24 21:12	30° $\text{R}$ $\text{X}$	
inferior conj	14472 Jan 22 17:43	15° $\text{X}$ 00'25	-4°50'07	min. Earth dist.	14472 Dec 25 01:49	29° $\text{X}$ 56'15	
minimum elong	14472 Jan 23 02:44	14° $\text{X}$ 45'20	4°47'01	inferior conj	14472 Dec 31 08:05	26° $\text{X}$ 54'26	0.55362 AU
morning rise	14472 Jan 31 04:53	10° $\text{X}$ 47'21		minimum elong	14473 Jan 02 03:44	25° $\text{X}$ 49'38	-5°47'25
direct	14472 Feb 02 07:49	10° $\text{X}$ 34'01		morning rise	14473 Jan 02 09:01	25° $\text{X}$ 41'49	5°45'52
asc. node	14472 Feb 08 10:35	12° $\text{X}$ 32'52		direct	14473 Jan 10 17:55	21° $\text{X}$ 54'42	
morning max el	14472 Feb 11 11:18	15° $\text{X}$ 01'03	19°04'34	morning max el	14473 Jan 13 08:29	21° $\text{X}$ 37'47	
	14472 Feb 21 21:26	0° $\text{X}$		asc. node	14473 Jan 24 01:02	26° $\text{X}$ 46'13	20°14'12
morning set	14472 Feb 28 01:26	11° $\text{X}$ 47'25			14473 Jan 25 07:57	28° $\text{X}$ 04'58	
					14473 Jan 27 00:06	0° $\text{X}$	
superior conj	14472 Mar 07 10:53	28° $\text{X}$ 15'53	0°37'54	morning set	14473 Feb 11 07:30	26° $\text{X}$ 23'51	
					14473 Feb 13 01:36	0° $\text{X}$	



superior conj	14473 Feb 18 23:09	12°  03'49	1°02'50	superior conj	14474 Feb 02 21:12	26°  16'54	1°20'57
minimum elong	14473 Feb 19 01:50	12°  17'15	1°02'53	minimum elong	14474 Feb 02 23:29	26°  28'54	1°21'22
max. Earth dist.	14473 Feb 24 15:25	23°  10'28	1.36619 AU		14474 Feb 04 16:05	0° 	
desc. node	14473 Feb 26 23:50	27°  34'24		max. Earth dist.	14474 Feb 07 03:23	5°  02'22	1.34628 AU
evening rise	14473 Feb 28 10:11	0°  11'29		evening rise	14474 Feb 11 08:40	13°  18'47	
	14473 Feb 28 07:39	0° 		desc. node	14474 Feb 13 20:20	17°  58'35	
	14473 Mar 18 18:36	0° 			14474 Feb 20 16:24	0° 	
evening max el	14473 Apr 04 21:51	21°  20'56	25°47'13		14474 Mar 13 16:47	0° 	
retrograde	14473 Apr 17 10:16	28°  33'12		evening max el	14474 Mar 18 11:44	5°  06'09	26°46'42
evening set	14473 Apr 23 11:12	26°  04'02		retrograde	14474 Mar 31 16:40	12°  31'42	
asc. node	14473 Apr 23 04:25	26°  17'54		evening set	14474 Apr 07 03:23	9°  59'37	
min. Earth dist.	14473 Apr 27 16:55	21°  29'47	0.67531 AU	asc. node	14474 Apr 10 01:50	7°  11'51	
inferior conj	14473 Apr 29 05:32	19°  33'41	1°46'13	min. Earth dist.	14474 Apr 11 03:35	5°  59'41	0.66176 AU
minimum elong	14473 Apr 29 03:27	19°  40'19	1°44'49	inferior conj	14474 Apr 13 04:43	3°  35'12	0°57'45
morning rise	14473 May 04 20:18	13°  44'35		minimum elong	14474 Apr 13 03:18	3°  39'24	0°56'45
direct	14473 May 08 05:15	12°  39'29			14474 Apr 16 11:33	30°  49'	
morning max el	14473 May 14 23:04	16°  17'52	18°52'25	morning rise	14474 Apr 19 04:25	27°  57'40	
	14473 May 25 12:26	0° 		direct	14474 Apr 22 03:13	27°  09'36	
desc. node	14473 May 26 01:47	0°  49'35			14474 Apr 27 23:10	0° 	
greatest brilliancy	14473 May 28 13:09	4°  33'06	-0.8m	morning max el	14474 Apr 28 12:18	0°  30'51	18°13'18
morning set	14473 Jun 06 12:50	18°  24'21		desc. node	14474 May 12 22:33	20°  47'48	
	14473 Jun 13 23:53	0° 		morning set	14474 May 17 21:08	28°  42'12	
max. Earth dist.	14473 Jun 20 23:19	10°  52'35	1.45689 AU		14474 May 18 16:34	0° 	
superior conj	14473 Jun 22 19:41	13°  46'16	-2°13'38	superior conj	14474 Jun 02 04:01	22°  54'53	-2°00'55
minimum elong	14473 Jun 22 18:46	13°  42'38	2°14'41	minimum elong	14474 Jun 01 20:19	22°  24'47	2°01'27
	14473 Jul 03 01:52	0° 		max. Earth dist.	14474 Jun 03 19:31	25°  29'16	1.45888 AU
evening rise	14473 Jul 08 00:06	7°  54'47			14474 Jun 06 16:58	0° 	
asc. node	14473 Jul 20 03:20	27°  12'04		evening rise	14474 Jun 18 05:29	17°  55'03	
	14473 Jul 22 00:54	0° 			14474 Jun 26 00:33	0° 	
evening max el	14473 Jul 28 03:36	7°  37'40	18°28'07	greatest brilliancy	14474 Jun 29 08:36	5°  05'39	-0.7m
retrograde	14473 Aug 03 14:15	11°  30'07		asc. node	14474 Jul 07 00:07	16°  04'05	
evening set	14473 Aug 06 17:01	10°  30'42		evening max el	14474 Jul 11 13:41	21°  24'56	19°06'47
inferior conj	14473 Aug 12 11:17	4°  37'21	2°29'23	retrograde	14474 Jul 18 10:32	25°  12'33	
minimum elong	14473 Aug 12 13:33	4°  30'33	2°28'18	evening set	14474 Jul 21 22:38	24°  01'23	
min. Earth dist.	14473 Aug 14 14:39	2°  04'04	0.65126 AU	inferior conj	14474 Jul 27 09:43	18°  13'45	2°56'12
	14473 Aug 16 11:38	30°  48'		minimum elong	14474 Jul 27 11:16	18°  08'44	2°55'13
morning rise	14473 Aug 18 08:51	28°  14'54		min. Earth dist.	14474 Jul 28 22:38	16°  14'55	0.66782 AU
desc. node	14473 Aug 21 23:40	26°  06'25		morning rise	14474 Aug 01 23:14	11°  48'36	
direct	14473 Aug 24 20:23	25°  36'30		direct	14474 Aug 08 02:21	9°  10'43	
	14473 Sep 03 11:33	0° 		desc. node	14474 Aug 08 21:08	9°  13'02	
morning max el	14473 Sep 07 07:41	3°  31'06	27°10'10	morning max el	14474 Aug 20 18:51	16°  44'27	26°04'07
	14473 Sep 27 07:56	0° 			14474 Aug 31 19:38	0° 	
morning set	14473 Oct 12 20:19	27°  11'38			14474 Sep 20 05:43	0° 	
	14473 Oct 14 06:43	0° 		morning set	14474 Sep 25 17:59	9°  52'07	
asc. node	14473 Oct 16 05:22	3°  53'09		max. Earth dist.	14474 Sep 29 12:08	16°  58'13	1.35176 AU
max. Earth dist.	14473 Oct 17 04:31	5°  50'49	1.33367 AU	asc. node	14474 Oct 03 01:58	24°  40'43	
superior conj	14473 Oct 21 05:44	14°  17'37	0°45'37	superior conj	14474 Oct 05 01:25	28°  40'45	0°18'19
minimum elong	14473 Oct 21 03:41	14°  06'44	0°45'54	minimum elong	14474 Oct 05 00:23	27°  55'28	0°18'31
evening rise	14473 Oct 28 08:48	29°  33'27			14474 Oct 06 00:43	0° 	
	14473 Oct 28 13:48	0° 		evening rise	14474 Oct 12 17:09	13°  53'48	
	14473 Nov 14 17:05	0° 			14474 Oct 20 22:43	0° 	
desc. node	14473 Nov 17 20:05	3°  31'24		evening max el	14474 Oct 31 05:43	14°  28'34	20°33'53
evening max el	14473 Nov 18 08:23	4°  02'04	22°04'05	desc. node	14474 Nov 04 17:21	18°  03'05	
retrograde	14473 Nov 30 22:41	10°  31'16		retrograde	14474 Nov 11 09:15	20°  40'11	
evening set	14473 Dec 04 07:04	9°  51'24		evening set	14474 Nov 13 16:25	19°  48'07	
inferior conj	14473 Dec 12 22:29	5°  58'13	-5°55'18	inferior conj	14474 Nov 22 14:20	15°  53'36	-5°02'47
minimum elong	14473 Dec 12 18:55	6°  03'14	5°54'00	minimum elong	14474 Nov 22 04:35	16°  07'43	4°59'30
min. Earth dist.	14473 Dec 12 14:09	6°  09'54	0.54537 AU	min. Earth dist.	14474 Nov 23 20:12	15°  43'25	0.54630 AU
morning rise	14473 Dec 21 07:43	2°  31'08		morning rise	14474 Nov 30 16:34	11°  43'53	
direct	14473 Dec 24 19:16	1°  34'06		direct	14474 Dec 05 03:46	11°  43'04	
morning max el	14474 Jan 05 23:58	7°  35'50	21°46'06	morning max el	14474 Dec 18 11:49	17°  43'25	23°33'19
asc. node	14474 Jan 12 05:15	14°  35'41'8			14474 Dec 28 08:55	0° 	
	14474 Jan 21 05:36	0° 		asc. node	14474 Dec 30 02:27	2°  43'24	
morning set	14474 Jan 26 17:27	11°  47'45		morning set	14475 Jan 11 05:15	25°  53'20	
					14475 Jan 13 03:04	0° 	

superior conj	14475 Jan 18 02:01	10° $\approx$ 46'49	1°32'26	direct	14475 Nov 15 21:27	20° $\mathbb{M}$ 37'33	
minimum elong	14475 Jan 18 03:27	10° $\approx$ 54'34	1°33'12	morning max el	14475 Nov 29 21:26	27° $\mathbb{M}$ 40'25	25°20'25
max. Earth dist.	14475 Jan 20 23:04	16° $\approx$ 56'35	1.33022 AU		14475 Dec 02 04:28	0° $\mathbb{A}$	
evening rise	14475 Jan 25 19:38	26° $\approx$ 56'21		asc. node	14475 Dec 16 23:33	21° $\mathbb{A}$ 16'59	
	14475 Jan 27 08:53	0° $\mathbb{H}$			14475 Dec 21 14:33	0° $\mathbb{B}$	
desc. node	14475 Jan 31 16:56	8° $\mathbb{H}$ 11'16		morning set	14475 Dec 26 16:58	10° $\mathbb{B}$ 34'27	
	14475 Feb 13 23:49	0° $\mathbb{Y}$					
evening max el	14475 Mar 01 00:59	18° $\mathbb{Y}$ 33'10	27°24'29	superior conj	14476 Jan 02 11:05	25° $\mathbb{B}$ 25'43	1°37'38
retrograde	14475 Mar 14 16:33	26° $\mathbb{Y}$ 01'58		minimum elong	14476 Jan 02 11:28	25° $\mathbb{B}$ 27'48	1°38'36
evening set	14475 Mar 21 10:36	23° $\mathbb{Y}$ 33'05		max. Earth dist.	14476 Jan 04 01:37	28° $\mathbb{B}$ 57'56	1.31879 AU
min. Earth dist.	14475 Mar 25 06:37	20° $\mathbb{Y}$ 04'48	0.64448 AU		14476 Jan 04 12:57	0° $\approx$	
inferior conj	14475 Mar 27 19:43	17° $\mathbb{Y}$ 21'34	-0°02'51	evening rise	14476 Jan 09 15:58	10° $\approx$ 55'45	
minimum elong	14475 Mar 27 19:48	17° $\mathbb{Y}$ 21'20	0°03'01	desc. node	14476 Jan 18 13:37	28° $\approx$ 06'12	
transit middle	14475 Mar 27 19:48	17° $\mathbb{Y}$ 21'20	0°03'01		14476 Jan 19 15:21	0° $\mathbb{H}$	
transit begin	14475 Mar 27 16:46	17° $\mathbb{Y}$ 29'28			14476 Feb 09 23:34	0° $\mathbb{Y}$	
transit end	14475 Mar 27 22:50	17° $\mathbb{Y}$ 13'13		evening max el	14476 Feb 11 11:39	1° $\mathbb{Y}$ 29'13	27°33'57
asc. node	14475 Mar 27 23:17	17° $\mathbb{Y}$ 12'01		retrograde	14476 Feb 25 09:12	8° $\mathbb{Y}$ 54'18	
morning rise	14475 Apr 03 07:02	11° $\mathbb{Y}$ 58'04		evening set	14476 Mar 03 06:16	6° $\mathbb{Y}$ 35'58	
direct	14475 Apr 05 20:54	11° $\mathbb{Y}$ 23'59		min. Earth dist.	14476 Mar 07 00:21	3° $\mathbb{Y}$ 34'25	0.62417 AU
morning max el	14475 Apr 12 05:13	14° $\mathbb{Y}$ 40'10	17°51'15	inferior conj	14476 Mar 09 23:28	0° $\mathbb{Y}$ 44'59	-1°15'36
	14475 Apr 23 04:10	0° $\mathbb{B}$		minimum elong	14476 Mar 10 02:02	0° $\mathbb{Y}$ 38'49	1°14'27
morning set	14475 Apr 29 09:23	10° $\mathbb{B}$ 20'46			14476 Mar 10 18:25	30° $\mathbb{R}$ $\mathbb{H}$	
desc. node	14475 Apr 29 19:14	11° $\mathbb{B}$ 02'03		asc. node	14476 Mar 13 20:45	27° $\mathbb{H}$ 22'00	
	14475 May 11 07:42	0° $\mathbb{I}$		morning rise	14476 Mar 17 00:39	25° $\mathbb{H}$ 38'15	
				direct	14476 Mar 19 07:02	25° $\mathbb{H}$ 14'45	
superior conj	14475 May 12 22:45	2° $\mathbb{I}$ 36'47	-1°31'23	morning max el	14476 Mar 25 22:53	28° $\mathbb{H}$ 37'19	17°46'48
minimum elong	14475 May 12 14:10	2° $\mathbb{I}$ 02'25	1°31'18		14476 Mar 27 06:17	0° $\mathbb{Y}$	
max. Earth dist.	14475 May 17 15:32	10° $\mathbb{I}$ 04'34	1.45336 AU	morning set	14476 Apr 10 21:33	23° $\mathbb{Y}$ 07'04	
evening rise	14475 May 28 18:43	27° $\mathbb{I}$ 20'44			14476 Apr 14 19:48	0° $\mathbb{B}$	
	14475 May 30 12:25	0° $\mathbb{B}$		desc. node	14476 Apr 15 15:53	1° $\mathbb{B}$ 27'22	
greatest brilliancy	14475 Jun 12 16:26	19° $\mathbb{B}$ 41'15	-0.6m				
	14475 Jun 20 04:35	0° $\mathbb{Q}$		superior conj	14476 Apr 22 15:19	13° $\mathbb{B}$ 21'07	-0°53'20
asc. node	14475 Jun 23 21:00	4° $\mathbb{Q}$ 19'52		minimum elong	14476 Apr 22 10:10	12° $\mathbb{B}$ 59'35	0°53'14
evening max el	14475 Jun 24 18:20	5° $\mathbb{Q}$ 15'00	20°01'15	max. Earth dist.	14476 Apr 29 08:38	24° $\mathbb{B}$ 21'51	1.44096 AU
retrograde	14475 Jul 02 09:14	9° $\mathbb{Q}$ 34'52			14476 May 02 21:35	0° $\mathbb{I}$	
evening set	14475 Jul 06 07:11	8° $\mathbb{Q}$ 06'27		evening rise	14476 May 07 07:26	6° $\mathbb{I}$ 53'05	
inferior conj	14475 Jul 11 14:12	2° $\mathbb{Q}$ 05'53	3°09'03		14476 May 22 19:16	0° $\mathbb{B}$	
minimum elong	14475 Jul 11 14:48	2° $\mathbb{Q}$ 03'53	3°08'06	evening max el	14476 Jun 06 17:01	19° $\mathbb{B}$ 05'44	21°09'07
min. Earth dist.	14475 Jul 12 12:56	0° $\mathbb{Q}$ 48'53	0.67997 AU	asc. node	14476 Jun 09 18:00	21° $\mathbb{B}$ 47'39	
	14475 Jul 13 03:35	30° $\mathbb{R}$ $\mathbb{B}$		retrograde	14476 Jun 15 08:11	24° $\mathbb{B}$ 06'42	
morning rise	14475 Jul 16 22:04	25° $\mathbb{B}$ 42'30		evening set	14476 Jun 19 16:38	22° $\mathbb{B}$ 21'25	
direct	14475 Jul 22 14:13	23° $\mathbb{B}$ 13'08		inferior conj	14476 Jun 24 22:22	16° $\mathbb{B}$ 09'32	3°09'54
desc. node	14475 Jul 26 18:33	24° $\mathbb{B}$ 19'22		minimum elong	14476 Jun 24 21:58	16° $\mathbb{B}$ 10'55	3°08'52
morning max el	14475 Aug 03 05:32	0° $\mathbb{Q}$ 11'28	24°41'38	min. Earth dist.	14476 Jun 25 07:32	15° $\mathbb{B}$ 37'36	0.68742 AU
	14475 Aug 03 00:59	0° $\mathbb{Q}$		morning rise	14476 Jun 30 03:04	9° $\mathbb{B}$ 50'47	
	14475 Aug 25 16:33	0° $\mathbb{M}$		direct	14476 Jul 05 07:01	7° $\mathbb{B}$ 35'54	
morning set	14475 Sep 07 22:31	21° $\mathbb{M}$ 46'08		desc. node	14476 Jul 12 15:53	10° $\mathbb{B}$ 59'51	
max. Earth dist.	14475 Sep 11 12:21	28° $\mathbb{M}$ 09'39	1.37371 AU	morning max el	14476 Jul 15 16:32	13° $\mathbb{B}$ 46'59	23°12'21
	14475 Sep 12 12:28	0° $\mathbb{Q}$			14476 Jul 28 19:35	0° $\mathbb{Q}$	
					14476 Aug 17 13:55	0° $\mathbb{M}$	
superior conj	14475 Sep 18 10:26	11° $\mathbb{Q}$ 12'01	-0°13'47	morning set	14476 Aug 19 05:31	2° $\mathbb{M}$ 43'38	
minimum elong	14475 Sep 18 11:20	11° $\mathbb{Q}$ 16'25	0°13'32	max. Earth dist.	14476 Aug 23 10:40	9° $\mathbb{M}$ 52'03	1.39740 AU
behind sun begin	14475 Sep 18 07:40	10° $\mathbb{Q}$ 58'33					
behind sun end	14475 Sep 18 15:01	11° $\mathbb{Q}$ 34'19		superior conj	14476 Aug 31 04:56	23° $\mathbb{M}$ 42'52	-0°48'59
asc. node	14475 Sep 19 22:31	14° $\mathbb{Q}$ 08'35		minimum elong	14476 Aug 31 08:36	23° $\mathbb{M}$ 59'45	0°48'36
evening rise	14475 Sep 26 20:52	28° $\mathbb{Q}$ 00'07			14476 Sep 03 13:44	0° $\mathbb{Q}$	
	14475 Sep 27 20:50	0° $\mathbb{M}$		asc. node	14476 Sep 05 19:05	4° $\mathbb{Q}$ 13'34	
evening max el	14475 Oct 13 17:19	25° $\mathbb{M}$ 41'40	19°24'00	evening rise	14476 Sep 09 17:03	11° $\mathbb{Q}$ 45'04	
	14475 Oct 20 06:02	0° $\mathbb{A}$			14476 Sep 19 19:32	0° $\mathbb{M}$	
desc. node	14475 Oct 22 14:43	0° $\mathbb{A}$ 26'19		evening max el	14476 Sep 25 17:44	7° $\mathbb{M}$ 43'32	18°36'16
retrograde	14475 Oct 23 05:32	0° $\mathbb{A}$ 27'28		retrograde	14476 Oct 03 19:35	11° $\mathbb{M}$ 48'15	
evening set	14475 Oct 25 02:35	0° $\mathbb{A}$ 17'08		evening set	14476 Oct 05 18:07	11° $\mathbb{M}$ 34'56	
	14475 Oct 26 07:44	30° $\mathbb{R}$ $\mathbb{M}$		desc. node	14476 Oct 08 12:10	10° $\mathbb{M}$ 34'17	
inferior conj	14475 Nov 02 17:39	26° $\mathbb{M}$ 09'24	-3°27'09	inferior conj	14476 Oct 13 17:15	7° $\mathbb{M}$ 07'44	-1°39'49
minimum elong	14475 Nov 02 09:03	26° $\mathbb{M}$ 23'25	3°23'18	minimum elong	14476 Oct 13 13:14	7° $\mathbb{M}$ 15'22	1°37'38
min. Earth dist.	14475 Nov 05 05:43	24° $\mathbb{M}$ 31'51	0.55634 AU	min. Earth dist.	14476 Oct 16 21:22	4° $\mathbb{M}$ 44'06	0.57369 AU
morning rise	14475 Nov 10 13:20	21° $\mathbb{M}$ 41'59		morning rise	14476 Oct 21 04:54	2° $\mathbb{M}$ 02'50	

direct	14476 Oct 27 05:52	0° $\mathbb{M}$ 31'52		transit begin	14477 Sep 25 10:59	18° $\mathbf{\underline{a}}$ 59'50	
morning max el	14476 Nov 10 12:19	8° $\mathbb{M}$ 00'37	26°48'18	transit end	14477 Sep 25 17:36	18° $\mathbf{\underline{a}}$ 45'10	
	14476 Nov 27 00:30	0° $\mathbf{\underline{a}}$		min. Earth dist.	14477 Sep 28 20:52	15° $\mathbf{\underline{a}}$ 59'58	0.59535 AU
asc. node	14476 Dec 02 20:34	10° $\mathbf{\underline{a}}$ 23'43		morning rise	14477 Oct 02 15:48	13° $\mathbf{\underline{a}}$ 13'48	
morning set	14476 Dec 10 02:54	25° $\mathbf{\underline{a}}$ 06'28		direct	14477 Oct 09 03:45	11° $\mathbf{\underline{a}}$ 16'01	
	14476 Dec 12 09:00	0° $\mathbf{\underline{a}}$		morning max el	14477 Oct 23 10:51	19° $\mathbf{\underline{a}}$ 03'09	27°43'00
					14477 Nov 01 17:45	0° $\mathbb{M}$	
superior conj	14476 Dec 16 22:19	10° $\mathbf{\underline{a}}$ 07'33	1°36'45	asc. node	14477 Nov 19 17:28	29° $\mathbb{M}$ 54'37	
minimum elong	14476 Dec 16 21:38	10° $\mathbf{\underline{a}}$ 03'43	1°37'46		14477 Nov 19 18:33	0° $\mathbf{\underline{a}}$	
max. Earth dist.	14476 Dec 17 08:35	11° $\mathbf{\underline{a}}$ 04'53	1.31245 AU	morning set	14477 Nov 24 09:13	9° $\mathbf{\underline{a}}$ 24'49	
evening rise	14476 Dec 23 19:04	25° $\mathbf{\underline{a}}$ 10'53		max. Earth dist.	14477 Nov 30 16:36	23° $\mathbf{\underline{a}}$ 10'52	1.31138 AU
	14476 Dec 26 02:29	0° $\approx$					
desc. node	14477 Jan 04 10:23	17° $\approx$ 36'12		superior conj	14477 Dec 01 09:48	24° $\mathbf{\underline{a}}$ 46'54	1°29'58
	14477 Jan 12 07:23	0° $\mathbf{\underline{a}}$		minimum elong	14477 Dec 01 08:13	24° $\mathbf{\underline{a}}$ 38'04	1°30'52
evening max el	14477 Jan 23 17:27	13° $\mathbf{\underline{a}}$ 42'30	27°10'02		14477 Dec 03 17:51	0° $\mathbf{\underline{a}}$	
retrograde	14477 Feb 06 17:21	20° $\mathbf{\underline{a}}$ 58'55		evening rise	14477 Dec 08 02:45	9° $\mathbf{\underline{a}}$ 36'26	
evening set	14477 Feb 13 11:15	18° $\mathbf{\underline{a}}$ 59'19			14477 Dec 18 10:32	0° $\approx$	
min. Earth dist.	14477 Feb 17 07:54	16° $\mathbf{\underline{a}}$ 16'04	0.60219 AU	desc. node	14477 Dec 22 07:15	6° $\approx$ 32'02	
inferior conj	14477 Feb 20 12:25	13° $\mathbf{\underline{a}}$ 36'06	-2°38'26	evening max el	14478 Jan 05 15:59	25° $\approx$ 05'13	26°11'32
minimum elong	14477 Feb 20 18:14	13° $\mathbf{\underline{a}}$ 23'55	2°35'48		14478 Jan 12 03:00	0° $\mathbf{\underline{a}}$	
morning rise	14477 Feb 28 04:33	8° $\mathbf{\underline{a}}$ 48'48		retrograde	14478 Jan 19 14:58	2° $\mathbf{\underline{a}}$ 10'02	
asc. node	14477 Feb 28 18:15	8° $\mathbf{\underline{a}}$ 40'55		evening set	14478 Jan 25 21:45	0° $\mathbf{\underline{a}}$ 36'05	
direct	14477 Mar 02 05:47	8° $\mathbf{\underline{a}}$ 32'12			14478 Jan 27 01:24	30° $\mathbf{\underline{a}}$	
morning max el	14477 Mar 09 13:49	12° $\mathbf{\underline{a}}$ 12'01	18°00'50	min. Earth dist.	14478 Jan 30 05:22	27° $\approx$ 59'03	0.58059 AU
	14477 Mar 21 11:34	0° $\mathbf{\underline{a}}$		inferior conj	14478 Feb 02 07:03	25° $\approx$ 45'30	-4°04'28
morning set	14477 Mar 25 03:29	6° $\mathbf{\underline{a}}$ 42'19		minimum elong	14478 Feb 02 15:40	25° $\approx$ 29'49	4°01'05
desc. node	14477 Apr 02 12:26	21° $\mathbf{\underline{a}}$ 59'09		morning rise	14478 Feb 10 12:36	21° $\approx$ 19'30	
				direct	14478 Feb 12 13:01	21° $\approx$ 06'03	
superior conj	14477 Apr 04 07:39	25° $\mathbf{\underline{a}}$ 10'44	-0°14'29	asc. node	14478 Feb 15 15:43	21° $\approx$ 39'49	
minimum elong	14477 Apr 04 06:25	25° $\mathbf{\underline{a}}$ 05'15	0°14'37	morning max el	14478 Feb 20 22:08	25° $\approx$ 13'22	18°34'57
behind sun begin	14477 Apr 04 03:12	24° $\mathbf{\underline{a}}$ 51'06			14478 Feb 24 22:41	0° $\mathbf{\underline{a}}$	
behind sun end	14477 Apr 04 09:37	25° $\mathbf{\underline{a}}$ 19'24		morning set	14478 Mar 08 21:51	20° $\mathbf{\underline{a}}$ 51'02	
	14477 Apr 07 02:04	0° $\mathbf{\underline{a}}$			14478 Mar 13 15:43	0° $\mathbf{\underline{a}}$	
max. Earth dist.	14477 Apr 11 21:10	8° $\mathbf{\underline{a}}$ 06'47	1.42308 AU	superior conj	14478 Mar 17 20:37	7° $\mathbf{\underline{a}}$ 56'34	0°20'28
evening rise	14477 Apr 17 09:58	17° $\mathbf{\underline{a}}$ 06'45		minimum elong	14478 Mar 17 22:00	8° $\mathbf{\underline{a}}$ 02'59	0°20'12
	14477 Apr 25 17:31	0° $\mathbb{I}$		desc. node	14478 Mar 20 08:56	12° $\mathbf{\underline{a}}$ 33'57	
	14477 May 17 16:25	0° $\mathbf{\underline{a}}$		max. Earth dist.	14478 Mar 25 05:36	21° $\mathbf{\underline{a}}$ 12'19	1.40165 AU
evening max el	14477 May 20 10:41	2° $\mathbf{\underline{a}}$ 56'59	22°26'25	evening rise	14478 Mar 29 09:10	28° $\mathbf{\underline{a}}$ 16'02	
asc. node	14477 May 27 15:06	8° $\mathbf{\underline{a}}$ 11'41			14478 Mar 30 10:12	0° $\mathbf{\underline{a}}$	
retrograde	14477 May 30 05:38	8° $\mathbf{\underline{a}}$ 42'05			14478 Apr 19 05:56	0° $\mathbb{I}$	
evening set	14477 Jun 04 01:13	6° $\mathbf{\underline{a}}$ 41'10		evening max el	14478 May 03 01:23	16° $\mathbb{I}$ 50'25	23°47'33
inferior conj	14477 Jun 09 08:04	0° $\mathbf{\underline{a}}$ 19'56	2°59'56	retrograde	14478 May 14 00:09	23° $\mathbb{I}$ 16'08	
minimum elong	14477 Jun 09 06:48	0° $\mathbf{\underline{a}}$ 24'22	2°58'44	asc. node	14478 May 14 12:18	23° $\mathbb{I}$ 15'00	
min. Earth dist.	14477 Jun 09 04:13	0° $\mathbf{\underline{a}}$ 33'23	0.69013 AU	evening set	14478 May 19 07:23	21° $\mathbb{I}$ 01'33	
	14477 Jun 09 13:47	30° $\mathbf{\underline{a}}$		min. Earth dist.	14478 May 24 00:46	15° $\mathbb{I}$ 30'36	0.68810 AU
morning rise	14477 Jun 14 12:12	24° $\mathbb{I}$ 07'49		inferior conj	14478 May 24 17:23	14° $\mathbb{I}$ 33'47	2°39'37
direct	14477 Jun 19 03:38	22° $\mathbb{I}$ 11'16		minimum elong	14478 May 24 15:29	14° $\mathbb{I}$ 40'17	2°38'15
morning max el	14477 Jun 28 06:16	27° $\mathbb{I}$ 30'03	21°45'05	morning rise	14478 May 29 23:34	8° $\mathbb{I}$ 29'40	
desc. node	14477 Jun 29 13:06	28° $\mathbb{I}$ 50'03		direct	14478 Jun 03 02:41	6° $\mathbb{I}$ 53'22	
	14477 Jun 30 14:34	0° $\mathbf{\underline{a}}$		morning max el	14478 Jun 11 01:50	11° $\mathbb{I}$ 23'57	20°26'55
	14477 Jul 22 09:01	0° $\mathbf{\underline{a}}$		desc. node	14478 Jun 16 10:13	17° $\mathbb{I}$ 31'43	
morning set	14477 Jul 30 11:50	12° $\mathbf{\underline{a}}$ 36'23			14478 Jun 25 11:46	0° $\mathbf{\underline{a}}$	
max. Earth dist.	14477 Aug 05 12:52	22° $\mathbf{\underline{a}}$ 23'57	1.42012 AU	morning set	14478 Jul 09 20:54	21° $\mathbf{\underline{a}}$ 35'27	
	14477 Aug 10 01:33	0° $\mathbf{\underline{a}}$			14478 Jul 15 06:13	0° $\mathbf{\underline{a}}$	
superior conj	14477 Aug 13 04:26	5° $\mathbf{\underline{a}}$ 22'36	-1°24'11	max. Earth dist.	14478 Jul 18 22:09	5° $\mathbf{\underline{a}}$ 49'31	1.43919 AU
minimum elong	14477 Aug 13 10:55	5° $\mathbf{\underline{a}}$ 50'52	1°23'51	superior conj	14478 Jul 25 05:08	16° $\mathbf{\underline{a}}$ 03'51	-1°54'07
asc. node	14477 Aug 23 15:38	24° $\mathbf{\underline{a}}$ 11'19		minimum elong	14478 Jul 25 12:28	16° $\mathbf{\underline{a}}$ 34'11	1°54'19
evening rise	14477 Aug 24 01:52	24° $\mathbf{\underline{a}}$ 58'14			14478 Aug 02 11:13	0° $\mathbf{\underline{a}}$	
	14477 Aug 26 19:51	0° $\mathbf{\underline{a}}$		evening rise	14478 Aug 06 18:39	7° $\mathbf{\underline{a}}$ 28'24	
evening max el	14477 Sep 09 02:51	20° $\mathbf{\underline{a}}$ 24'56	18°09'35	asc. node	14478 Aug 10 12:12	13° $\mathbf{\underline{a}}$ 57'55	
retrograde	14477 Sep 16 04:22	24° $\mathbf{\underline{a}}$ 01'09			14478 Aug 20 14:16	0° $\mathbf{\underline{a}}$	
evening set	14477 Sep 18 09:27	23° $\mathbf{\underline{a}}$ 40'27		evening max el	14478 Aug 23 16:28	3° $\mathbf{\underline{a}}$ 35'25	18°02'22
desc. node	14477 Sep 25 09:40	19° $\mathbf{\underline{a}}$ 02'43		retrograde	14478 Aug 30 04:29	6° $\mathbf{\underline{a}}$ 57'32	
inferior conj	14477 Sep 25 14:25	18° $\mathbf{\underline{a}}$ 52'15	-0°03'43	evening set	14478 Sep 01 17:38	6° $\mathbf{\underline{a}}$ 25'46	
minimum elong	14477 Sep 25 14:17	18° $\mathbf{\underline{a}}$ 52'31	0°03'25	inferior conj	14478 Sep 08 06:21	1° $\mathbf{\underline{a}}$ 18'03	1°11'58
transit middle	14477 Sep 25 14:17	18° $\mathbf{\underline{a}}$ 52'31	0°03'25				

minimum elong	14478 Sep 08 08:16	1°♌13'10	1°11'13	evening set	14479 Aug 16 13:11	19°♏42'36	
	14478 Sep 09 12:57	30°♏♏		inferior conj	14479 Aug 22 13:06	14°♏17'47	2°06'33
min. Earth dist.	14478 Sep 11 05:40	28°♏18'23	0.61829 AU	minimum elong	14479 Aug 22 15:32	14°♏10'52	2°05'29
desc. node	14478 Sep 12 07:12	27°♏18'25		min. Earth dist.	14479 Aug 25 00:19	11°♏30'21	0.63998 AU
morning rise	14478 Sep 14 20:21	25°♏14'56		morning rise	14479 Aug 28 16:13	7°♏59'45	
direct	14478 Sep 21 12:32	22°♏55'09		desc. node	14479 Aug 30 04:44	6°♏56'21	
	14478 Oct 04 18:21	0°♌		direct	14479 Sep 04 06:41	5°♏25'44	
morning max el	14478 Oct 05 16:10	0°♌53'04	27°58'46	morning max el	14479 Sep 18 01:57	13°♏25'20	27°37'12
	14478 Oct 26 22:21	0°♌			14479 Oct 01 10:49	0°♌	
asc. node	14478 Nov 06 14:14	19°♌42'08			14479 Oct 19 12:12	0°♌	
morning set	14478 Nov 08 09:50	23°♌23'49		morning set	14479 Oct 23 02:26	6°♌58'13	
	14478 Nov 11 13:17	0°♌		asc. node	14479 Oct 24 10:54	9°♌41'00	
max. Earth dist.	14478 Nov 13 21:52	5°♌06'11	1.31573 AU	max. Earth dist.	14479 Oct 27 20:38	16°♌42'46	1.32556 AU
superior conj	14478 Nov 15 19:37	9°♌17'34	1°17'20	superior conj	14479 Oct 31 01:48	23°♌34'29	0°58'52
minimum elong	14478 Nov 15 17:26	9°♌05'35	1°18'00	minimum elong	14479 Oct 30 23:31	23°♌22'11	0°59'16
evening rise	14478 Nov 22 12:59	24°♌06'29			14479 Nov 03 00:46	0°♌	
	14478 Nov 25 07:35	0°♌		evening rise	14479 Nov 06 24:00	8°♌36'33	
desc. node	14478 Dec 09 04:14	24°♌40'01			14479 Nov 17 23:21	0°♌	
	14478 Dec 13 03:31	0°♌		desc. node	14479 Nov 26 01:19	11°♌42'35	
evening max el	14478 Dec 18 06:09	5°♌36'56	24°44'08	evening max el	14479 Nov 29 15:43	15°♌37'18	23°02'07
retrograde	14478 Dec 31 23:51	12°♌28'35		retrograde	14479 Dec 12 20:00	22°♌09'48	
evening set	14479 Jan 06 09:47	11°♌23'44		evening set	14479 Dec 16 23:22	21°♌32'30	
min. Earth dist.	14479 Jan 11 17:58	8°♌36'47	0.56195 AU	min. Earth dist.	14479 Dec 24 01:07	18°♌16'07	0.54908 AU
inferior conj	14479 Jan 14 04:45	7°♌04'01	-5°18'54	inferior conj	14479 Dec 25 07:05	17°♌33'12	-5°58'01
minimum elong	14479 Jan 14 12:58	6°♌51'00	5°16'23	minimum elong	14479 Dec 25 08:55	17°♌30'35	5°56'55
morning rise	14479 Jan 22 18:18	2°♌59'17		morning rise	14480 Jan 02 19:57	13°♌43'46	
direct	14479 Jan 25 01:10	2°♌44'56		direct	14480 Jan 05 18:36	13°♌23'28	
asc. node	14479 Feb 02 13:08	6°♌19'29		morning max el	14480 Jan 17 03:00	18°♌49'49	20°50'50
morning max el	14479 Feb 03 19:36	7°♌28'41	19°31'15	asc. node	14480 Jan 20 10:27	22°♌26'28	
	14479 Feb 18 08:05	0°♌			14480 Jan 25 18:10	0°♌	
morning set	14479 Feb 21 00:32	5°♌19'59		morning set	14480 Feb 05 08:32	20°♌00'33	
					14480 Feb 10 03:32	0°♌	
superior conj	14479 Mar 01 01:36	21°♌25'06	0°49'18	superior conj	14480 Feb 12 18:27	5°♌25'06	1°11'20
minimum elong	14479 Mar 01 04:08	21°♌37'30	0°49'10	minimum elong	14480 Feb 12 21:03	5°♌38'21	1°11'32
	14479 Mar 05 13:02	0°♌		max. Earth dist.	14480 Feb 17 20:41	15°♌36'10	1.35735 AU
desc. node	14479 Mar 07 05:25	3°♌07'26		evening rise	14480 Feb 21 18:44	23°♌02'56	
max. Earth dist.	14479 Mar 07 12:07	3°♌38'11	1.37894 AU	desc. node	14480 Feb 22 01:55	23°♌36'14	
evening rise	14479 Mar 11 04:58	10°♌17'13			14480 Feb 25 14:57	0°♌	
	14479 Mar 23 04:17	0°♌			14480 Mar 15 21:24	0°♌	
evening max el	14479 Apr 15 14:56	0°♌44'13	25°06'01	evening max el	14480 Mar 28 04:26	14°♌33'57	26°14'34
retrograde	14479 Apr 27 14:44	7°♌42'17		retrograde	14480 Apr 10 00:26	21°♌53'26	
asc. node	14479 May 01 09:36	6°♌41'21		evening set	14480 Apr 16 05:55	19°♌22'00	
evening set	14479 May 03 09:32	5°♌17'04		asc. node	14480 Apr 17 06:59	18°♌26'21	
min. Earth dist.	14479 May 07 19:02	0°♌22'39	0.68133 AU	min. Earth dist.	14480 Apr 20 09:02	15°♌02'53	0.67010 AU
	14479 May 08 02:00	30°♏♏		inferior conj	14480 Apr 22 03:06	12°♏53'25	1°27'04
inferior conj	14479 May 09 00:25	28°♏46'26	2°08'51	minimum elong	14480 Apr 22 01:13	12°♏59'15	1°25'48
minimum elong	14479 May 08 22:15	28°♏53'32	2°07'24	morning rise	14480 Apr 27 21:23	7°♏09'17	
morning rise	14479 May 14 11:17	22°♏51'40		direct	14480 May 01 01:51	6°♏11'53	
direct	14479 May 18 02:39	21°♏35'35		morning max el	14480 May 07 14:59	9°♏41'17	18°33'43
morning max el	14479 May 25 04:54	25°♏29'02	19°22'24	desc. node	14480 May 20 04:01	26°♏36'50	
	14479 May 29 05:04	0°♌			14480 May 22 08:32	0°♌	
desc. node	14479 Jun 03 07:10	6°♌50'42		morning set	14480 May 28 17:09	9°♌57'32	
greatest brilliancy	14479 Jun 06 21:02	12°♌02'09	-0.7m		14480 Jun 10 12:29	0°♌	
morning set	14479 Jun 18 23:45	0°♌23'43		superior conj	14480 Jun 13 16:59	4°♌58'22	-2°10'40
	14479 Jun 18 17:35	0°♌		minimum elong	14480 Jun 13 12:42	4°♌41'40	2°11'35
max. Earth dist.	14479 Jul 01 13:47	19°♌56'46	1.45243 AU	max. Earth dist.	14480 Jun 13 08:46	4°♌26'20	1.45863 AU
superior conj	14479 Jul 05 06:46	25°♌48'27	-2°11'44	evening rise	14480 Jun 29 09:21	29°♌37'05	
minimum elong	14479 Jul 05 10:12	26°♌02'03	2°12'38		14480 Jun 29 15:08	0°♌	
	14479 Jul 07 21:51	0°♌		greatest brilliancy	14480 Jul 07 10:36	12°♌20'52	-0.8m
evening rise	14479 Jul 19 14:21	19°♌03'59		asc. node	14480 Jul 14 05:36	22°♌37'26	
	14479 Jul 26 05:12	0°♏			14480 Jul 20 00:14	0°♏	
asc. node	14479 Jul 28 08:51	3°♏28'52		evening max el	14480 Jul 20 19:16	0°♏49'06	18°42'30
evening max el	14479 Aug 07 06:57	17°♏06'15	18°13'35	retrograde	14480 Jul 27 09:25	4°♏24'02	
retrograde	14479 Aug 13 15:32	20°♏28'08		evening set	14480 Jul 30 16:01	3°♏22'42	

	14480 Aug 03 09:12	30° $\kappa$ 8 $\Omega$		asc. node	14481 Jul 01 02:26	11° $\Omega$ 15'49	
inferior conj	14480 Aug 05 06:48	27° $\Omega$ 42'57 2°42'37		evening max el	14481 Jul 04 03:14	14° $\Omega$ 38'25 19°28'09	
minimum elong	14480 Aug 05 08:49	27° $\Omega$ 36'42 2°41'35		retrograde	14481 Jul 11 07:03	18° $\Omega$ 38'37	
min. Earth dist.	14480 Aug 07 04:01	25° $\Omega$ 23'03 0.65875 AU		evening set	14481 Jul 14 23:10	17° $\Omega$ 20'21	
morning rise	14480 Aug 11 00:38	21° $\Omega$ 18'22		inferior conj	14481 Jul 20 08:11	11° $\Omega$ 27'12 3°03'12	
desc. node	14480 Aug 16 02:14	18° $\Omega$ 45'12		minimum elong	14481 Jul 20 09:20	11° $\Omega$ 23'22 3°02'14	
direct	14480 Aug 17 08:49	18° $\Omega$ 39'09		min. Earth dist.	14481 Jul 21 15:06	9° $\Omega$ 45'11 0.67356 AU	
morning max el	14480 Aug 30 13:18	26° $\Omega$ 27'29 26°44'43		morning rise	14481 Jul 25 18:59	5° $\Omega$ 02'09	
	14480 Sep 02 20:15	0° $\mathfrak{M}$		direct	14481 Jul 31 17:42	2° $\Omega$ 26'44	
	14480 Sep 24 01:05	0° $\underline{\Omega}$		desc. node	14481 Aug 02 23:41	2° $\Omega$ 45'56	
morning set	14480 Oct 05 08:01	20° $\underline{\Omega}$ 00'40		morning max el	14481 Aug 13 00:15	9° $\Omega$ 47'45 25°30'18	
max. Earth dist.	14480 Oct 09 09:48	27° $\underline{\Omega}$ 57'22 1.34077 AU			14481 Aug 29 00:14	0° $\mathfrak{M}$	
asc. node	14480 Oct 10 07:32	29° $\underline{\Omega}$ 46'20			14481 Sep 16 15:07	0° $\underline{\Omega}$	
	14480 Oct 10 10:14	0° $\mathfrak{M}$		morning set	14481 Sep 17 22:56	2° $\underline{\Omega}$ 22'47	
				max. Earth dist.	14481 Sep 21 13:20	9° $\underline{\Omega}$ 01'25 1.36073 AU	
superior conj	14480 Oct 14 02:04	7° $\mathfrak{M}$ 31'24 0°34'41		asc. node	14481 Sep 27 04:07	19° $\underline{\Omega}$ 54'33	
minimum elong	14480 Oct 14 00:20	7° $\mathfrak{M}$ 22'23 0°34'54					
evening rise	14480 Oct 21 09:52	23° $\mathfrak{M}$ 01'23		superior conj	14481 Sep 27 17:38	21° $\underline{\Omega}$ 01'58 0°05'14	
	14480 Oct 24 18:47	0° $\mathfrak{X}$		minimum elong	14481 Sep 27 17:18	21° $\underline{\Omega}$ 00'19 0°05'25	
evening max el	14480 Nov 10 06:08	25° $\mathfrak{X}$ 43'34 21°23'31		behind sun begin	14481 Sep 27 11:21	20° $\underline{\Omega}$ 30'33	
desc. node	14480 Nov 11 22:32	27° $\mathfrak{X}$ 16'27		behind sun end	14481 Sep 27 23:15	21° $\underline{\Omega}$ 30'09	
	14480 Nov 15 20:51	0° $\mathfrak{Z}$			14481 Oct 02 03:36	0° $\mathfrak{M}$	
retrograde	14480 Nov 22 07:22	1° $\mathfrak{Z}$ 42'08		evening rise	14481 Oct 05 16:32	7° $\mathfrak{M}$ 16'11	
evening set	14480 Nov 25 03:04	1° $\mathfrak{Z}$ 23'48			14481 Oct 18 03:18	0° $\mathfrak{X}$	
	14480 Nov 29 05:25	30° $\mathfrak{R}$ 8 $\mathfrak{X}$		evening max el	14481 Oct 23 09:32	6° $\mathfrak{X}$ 28'58 20°01'27	
inferior conj	14480 Dec 03 22:41	27° $\mathfrak{X}$ 31'28 -5°40'00		desc. node	14481 Oct 29 19:52	10° $\mathfrak{X}$ 55'52	
minimum elong	14480 Dec 03 15:39	27° $\mathfrak{X}$ 41'22 5°37'58		retrograde	14481 Nov 02 20:14	11° $\mathfrak{X}$ 41'09	
min. Earth dist.	14480 Dec 04 06:55	27° $\mathfrak{X}$ 19'54 0.54454 AU		evening set	14481 Nov 04 21:12	11° $\mathfrak{X}$ 30'10	
morning rise	14480 Dec 12 04:50	23° $\mathfrak{X}$ 42'07		inferior conj	14481 Nov 13 17:51	7° $\mathfrak{X}$ 31'41 -4°25'36	
direct	14480 Dec 16 02:11	23° $\mathfrak{X}$ 09'23		minimum elong	14481 Nov 13 07:48	7° $\mathfrak{X}$ 46'50 4°21'44	
morning max el	14480 Dec 28 20:30	29° $\mathfrak{X}$ 18'49 22°30'42		min. Earth dist.	14481 Nov 15 14:21	6° $\mathfrak{X}$ 24'30 0.54953 AU	
	14480 Dec 29 13:26	0° $\mathfrak{Z}$		morning rise	14481 Nov 21 17:14	3° $\mathfrak{X}$ 22'51	
asc. node	14481 Jan 06 07:41	9° $\mathfrak{Z}$ 42'45		direct	14481 Nov 26 13:59	2° $\mathfrak{X}$ 31'13	
	14481 Jan 17 12:55	0° $\approx$		morning max el	14481 Dec 10 06:08	9° $\mathfrak{X}$ 16'57 24°20'04	
morning set	14481 Jan 19 19:31	4° $\approx$ 45'39		asc. node	14481 Dec 24 04:51	27° $\mathfrak{X}$ 52'09	
					14481 Dec 25 10:27	0° $\mathfrak{Z}$	
superior conj	14481 Jan 26 19:44	19° $\approx$ 46'29 1°26'37		morning set	14482 Jan 04 07:27	19° $\mathfrak{Z}$ 29'23	
minimum elong	14481 Jan 26 21:42	19° $\approx$ 56'56 1°27'10			14482 Jan 09 03:04	0° $\approx$	
max. Earth dist.	14481 Jan 30 11:27	27° $\approx$ 25'55 1.33884 AU					
	14481 Jan 31 17:37	0° $\mathfrak{X}$		superior conj	14482 Jan 11 02:37	4° $\approx$ 20'44 1°35'24	
evening rise	14481 Feb 03 22:55	6° $\mathfrak{X}$ 24'06		minimum elong	14482 Jan 11 03:37	4° $\approx$ 26'11 1°36'15	
desc. node	14481 Feb 07 22:30	13° $\mathfrak{X}$ 56'16		max. Earth dist.	14482 Jan 13 10:05	9° $\approx$ 21'54 1.32470 AU	
	14481 Feb 17 06:58	0° $\mathfrak{Y}$		evening rise	14482 Jan 18 14:12	20° $\approx$ 11'46	
evening max el	14481 Mar 10 18:04	28° $\mathfrak{Y}$ 12'44 27°05'50			14482 Jan 23 14:39	0° $\mathfrak{X}$	
	14481 Mar 12 16:34	0° $\mathfrak{Z}$		desc. node	14482 Jan 25 19:08	4° $\mathfrak{X}$ 02'06	
retrograde	14481 Mar 24 04:30	5° $\mathfrak{Z}$ 41'44			14482 Feb 11 07:57	0° $\mathfrak{Y}$	
evening set	14481 Mar 30 18:39	3° $\mathfrak{Z}$ 10'00		evening max el	14482 Feb 21 06:36	11° $\mathfrak{Y}$ 28'39 27°32'31	
	14481 Apr 03 03:33	30° $\mathfrak{R}$ 8 $\mathfrak{Y}$		retrograde	14482 Mar 07 01:35	18° $\mathfrak{Y}$ 56'52	
min. Earth dist.	14481 Apr 03 16:45	29° $\mathfrak{Y}$ 24'00 0.65478 AU		evening set	14482 Mar 13 21:19	16° $\mathfrak{Y}$ 31'49	
asc. node	14481 Apr 04 04:24	28° $\mathfrak{Y}$ 51'32		min. Earth dist.	14482 Mar 17 16:14	13° $\mathfrak{Y}$ 15'23 0.63605 AU	
inferior conj	14481 Apr 05 23:11	26° $\mathfrak{Y}$ 49'51 0°33'34		inferior conj	14482 Mar 20 09:50	10° $\mathfrak{Y}$ 27'51 -0°32'16	
minimum elong	14481 Apr 05 22:18	26° $\mathfrak{Y}$ 52'24 0°32'51		minimum elong	14482 Mar 20 10:52	10° $\mathfrak{Y}$ 25'14 0°31'55	
morning rise	14481 Apr 12 03:33	21° $\mathfrak{Y}$ 18'07		asc. node	14482 Mar 22 01:53	8° $\mathfrak{Y}$ 47'45	
direct	14481 Apr 14 22:17	20° $\mathfrak{Y}$ 36'33		morning rise	14482 Mar 27 02:49	5° $\mathfrak{Y}$ 10'53	
morning max el	14481 Apr 21 06:13	23° $\mathfrak{Y}$ 54'32 18°01'47		direct	14482 Mar 29 13:11	4° $\mathfrak{Y}$ 41'48	
	14481 Apr 26 07:16	0° $\mathfrak{Z}$		morning max el	14482 Apr 04 23:49	7° $\mathfrak{Y}$ 59'42 17°47'09	
desc. node	14481 May 07 00:46	16° $\mathfrak{Z}$ 42'54			14482 Apr 19 18:26	0° $\mathfrak{Z}$	
morning set	14481 May 09 13:32	20° $\mathfrak{Z}$ 50'45		morning set	14482 Apr 21 12:46	3° $\mathfrak{Z}$ 00'48	
	14481 May 15 04:50	0° $\mathfrak{I}$		desc. node	14482 Apr 23 21:25	7° $\mathfrak{Z}$ 02'28	
superior conj	14481 May 24 03:56	14° $\mathfrak{I}$ 17'17 -1°50'01		superior conj	14482 May 04 07:11	24° $\mathfrak{Z}$ 23'56 -1°15'47	
minimum elong	14481 May 23 19:05	13° $\mathfrak{I}$ 42'26 1°50'14		minimum elong	14482 May 03 23:47	23° $\mathfrak{Z}$ 53'47 1°15'37	
max. Earth dist.	14481 May 27 04:45	19° $\mathfrak{I}$ 03'02 1.45739 AU			14482 May 07 18:25	0° $\mathfrak{I}$	
	14481 Jun 03 05:39	0° $\mathfrak{Z}$		max. Earth dist.	14482 May 09 23:39	3° $\mathfrak{I}$ 32'12 1.44890 AU	
evening rise	14481 Jun 09 06:20	9° $\mathfrak{Z}$ 18'28		evening rise	14482 May 19 17:18	18° $\mathfrak{I}$ 42'02	
greatest brilliancy	14481 Jun 22 09:02	29° $\mathfrak{Z}$ 14'47 -0.7m			14482 May 27 04:24	0° $\mathfrak{Z}$	
	14481 Jun 22 21:18	0° $\Omega$		evening max el	14482 Jun 17 05:27	28° $\mathfrak{Z}$ 29'26 20°28'43	

asc. node	14482 Jun 17 23:24	29°☿13'03			14483 May 20 21:28	0°☿	
	14482 Jun 18 20:07	0°♊		evening max el	14483 May 31 01:54	12°☿20'32	21°41'06
retrograde	14482 Jun 25 05:58	3°♊05'34		asc. node	14483 Jun 04 20:26	16°☿15'51	
evening set	14482 Jun 29 08:19	1°♊29'58		retrograde	14483 Jun 09 04:22	17°☿39'40	
	14482 Jun 30 23:12	30°♋☿		evening set	14483 Jun 13 17:36	15°☿47'22	
inferior conj	14482 Jul 04 14:31	25°☿24'39	3°10'46	inferior conj	14483 Jun 18 23:33	9°☿31'20	3°06'56
minimum elong	14482 Jul 04 14:41	25°☿24'05	3°09'47	minimum elong	14483 Jun 18 22:46	9°☿34'05	3°05'50
min. Earth dist.	14482 Jul 05 07:28	24°☿26'25	0.68382 AU	min. Earth dist.	14483 Jun 19 03:06	9°☿18'58	0.68925 AU
morning rise	14482 Jul 09 20:44	19°☿03'02		morning rise	14483 Jun 24 03:44	3°☿15'28	
direct	14482 Jul 15 07:56	16°☿39'00		direct	14483 Jun 29 02:25	1°☿08'06	
desc. node	14482 Jul 20 21:03	18°☿35'24		desc. node	14483 Jul 07 18:20	5°☿48'03	
morning max el	14482 Jul 26 10:40	23°☿17'53	24°03'46	morning max el	14483 Jul 08 22:25	6°☿56'14	22°34'28
	14482 Aug 01 08:53	0°♌			14483 Jul 26 19:38	0°♌	
	14482 Aug 22 08:40	0°♍		morning set	14483 Aug 11 15:25	24°♌23'41	
morning set	14482 Aug 30 18:48	13°♍53'49			14483 Aug 15 00:54	0°♍	
max. Earth dist.	14482 Sep 03 11:44	20°♍22'02	1.38378 AU	max. Earth dist.	14483 Aug 16 11:42	2°♍26'21	1.40742 AU
	14482 Sep 08 18:35	0°♎					
				superior conj	14483 Aug 24 07:59	16°♍07'55	-1°04'12
superior conj	14482 Sep 10 21:01	3°♎57'40	-0°28'29	minimum elong	14483 Aug 24 12:55	16°♍30'09	1°03'46
minimum elong	14482 Sep 10 23:01	4°♎07'09	0°28'10	asc. node	14483 Aug 31 21:16	0°♎04'23	
asc. node	14482 Sep 14 00:42	10°♎01'57			14483 Aug 31 20:20	0°♎	
evening rise	14482 Sep 19 17:27	21°♎14'30		evening rise	14483 Sep 03 09:18	4°♎47'21	
	14482 Sep 24 05:49	0°♏			14483 Sep 18 22:25	0°♏	
evening max el	14482 Oct 06 03:07	18°♏04'13	19°01'02	evening max el	14483 Sep 19 07:42	0°♏23'41	18°22'22
retrograde	14482 Oct 14 23:21	22°♏30'49		retrograde	14483 Sep 26 21:51	4°♏14'50	
evening set	14482 Oct 16 20:17	22°♏19'41		evening set	14483 Sep 28 22:50	3°♏58'49	
desc. node	14482 Oct 16 17:16	22°♏21'06		desc. node	14483 Oct 03 14:44	1°♏39'08	
inferior conj	14482 Oct 25 05:13	18°♏04'05	-2°41'18		14483 Oct 05 19:22	30°♋☿	
minimum elong	14482 Oct 24 22:27	18°♏15'49	2°38'00	inferior conj	14483 Oct 06 14:09	29°♎22'11	-0°56'47
min. Earth dist.	14482 Oct 28 01:58	16°♏05'29	0.56303 AU	minimum elong	14483 Oct 06 11:59	29°♎26'34	0°55'30
morning rise	14482 Nov 01 21:49	13°♏21'21		min. Earth dist.	14483 Oct 09 20:31	26°♎44'11	0.58256 AU
direct	14482 Nov 07 14:02	12°♏05'52		morning rise	14483 Oct 13 21:40	24°♎02'09	
morning max el	14482 Nov 21 17:08	19°♏19'51	26°01'11	direct	14483 Oct 20 03:55	22°♎19'54	
	14482 Nov 30 17:53	0°♐		morning max el	14483 Nov 03 11:18	29°♎56'43	27°16'18
asc. node	14482 Dec 11 01:54	16°♐41'26			14483 Nov 03 12:39	0°♏	
	14482 Dec 17 20:02	0°♑			14483 Nov 24 18:00	0°♐	
morning set	14482 Dec 19 18:38	4°♑07'22		asc. node	14483 Nov 27 22:52	5°♐59'24	
				morning set	14483 Dec 04 03:14	18°♐34'05	
					14483 Dec 09 08:31	0°♑	
superior conj	14482 Dec 26 12:51	19°♑01'41	1°37'59				
minimum elong	14482 Dec 26 12:46	19°♑01'13	1°39'00	superior conj	14483 Dec 11 00:22	3°♑42'40	1°34'35
max. Earth dist.	14482 Dec 27 15:05	21°♑27'23	1.31548 AU	minimum elong	14483 Dec 10 23:16	3°♑36'34	1°35'34
	14482 Dec 31 12:52	0°♒		max. Earth dist.	14483 Dec 10 23:08	3°♑35'46	1.31137 AU
evening rise	14483 Jan 02 13:44	4°♒19'03		evening rise	14483 Dec 17 19:00	18°♑38'55	
desc. node	14483 Jan 12 15:52	23°♒47'47			14483 Dec 23 07:53	0°♒	
	14483 Jan 16 07:28	0°♓		desc. node	14483 Dec 30 12:40	13°♒04'31	
evening max el	14483 Feb 03 15:46	24°♓08'41	27°28'08		14484 Jan 11 05:24	0°♓	
	14483 Feb 11 15:45	0°♑		evening max el	14484 Jan 16 18:38	6°♓00'16	26°49'07
retrograde	14483 Feb 17 14:31	1°♑29'38		retrograde	14484 Jan 30 18:04	13°♓11'35	
	14483 Feb 23 06:29	30°♋♓		evening set	14484 Feb 06 08:37	11°♓21'56	
evening set	14483 Feb 24 11:06	29°♓18'38		min. Earth dist.	14484 Feb 10 08:32	8°♓43'23	0.59286 AU
min. Earth dist.	14483 Feb 28 05:43	26°♓25'58	0.61493 AU	inferior conj	14484 Feb 13 13:14	6°♓12'39	-3°15'11
inferior conj	14483 Mar 03 07:45	23°♓38'52	-1°49'43	minimum elong	14484 Feb 13 20:25	5°♓58'29	3°12'06
minimum elong	14483 Mar 03 11:39	23°♓30'03	1°47'56	morning rise	14484 Feb 21 11:28	1°♓34'26	
asc. node	14483 Mar 08 23:20	19°♓21'05		direct	14484 Feb 23 11:50	1°♓19'33	
morning rise	14483 Mar 10 15:14	18°♓39'46		asc. node	14484 Feb 23 20:48	1°♓20'04	
direct	14483 Mar 12 19:10	18°♓19'31		morning max el	14484 Mar 02 05:14	5°♓09'23	18°12'52
morning max el	14483 Mar 19 16:40	21°♓48'03	17°50'26	morning set	14484 Mar 17 20:57	0°♑00'56	
	14483 Mar 25 23:55	0°♑			14484 Mar 17 20:45	0°♑	
morning set	14483 Apr 04 09:13	16°♑10'15					
desc. node	14483 Apr 10 18:02	27°♑31'02		superior conj	14484 Mar 27 11:36	17°♑51'04	0°01'01
	14483 Apr 12 04:03	0°♒		minimum elong	14484 Mar 27 11:40	17°♑51'21	0°00'47
				behind sun begin	14484 Mar 27 04:09	17°♑17'29	
superior conj	14483 Apr 15 09:59	5°♒36'15	-0°36'36	behind sun end	14484 Mar 27 19:10	18°♑25'08	
minimum elong	14483 Apr 15 06:36	5°♒21'44	0°36'35	desc. node	14484 Mar 27 14:35	18°♑04'31	
max. Earth dist.	14483 Apr 22 15:23	17°♒38'47	1.43400 AU		14484 Apr 03 10:10	0°♒	
evening rise	14483 Apr 29 10:36	28°♒29'09		max. Earth dist.	14484 Apr 04 02:19	1°♒08'25	1.41423 AU
	14483 Apr 30 09:55	0°♓					

evening rise	14484 Apr 08 21:28	9°♄05'11			14485 Mar 26 21:27	0°♄	
	14484 Apr 22 11:00	0°♄			14485 Apr 16 13:08	0°♄	
evening max el	14484 May 12 17:54	26°♄12'15	23°00'47	evening max el	14485 Apr 25 07:41	10°♄05'06	24°21'46
	14484 May 17 03:36	0°♄		retrograde	14485 May 06 17:54	16°♄46'47	
asc. node	14484 May 21 17:33	2°♄08'02		asc. node	14485 May 08 14:47	16°♄31'30	
retrograde	14484 May 23 00:47	2°♄15'37		evening set	14485 May 12 06:02	14°♄27'10	
evening set	14484 May 28 01:23	0°♄08'17		min. Earth dist.	14485 May 16 19:48	9°♄11'44	0.68567 AU
	14484 May 28 05:11	30°♄		inferior conj	14485 May 17 17:52	7°♄57'23	2°27'54
inferior conj	14484 Jun 02 09:18	23°♄43'45	2°52'36	minimum elong	14485 May 17 15:49	8°♄04'20	2°26'28
minimum elong	14484 Jun 02 07:44	23°♄49'12	2°51'18	morning rise	14485 May 23 01:43	1°♄56'59	
min. Earth dist.	14484 Jun 01 23:54	24°♄16'21	0.68982 AU	direct	14485 May 26 23:37	0°♄29'32	
morning rise	14484 Jun 07 14:01	17°♄35'03		morning max el	14485 Jun 03 13:12	4°♄43'21	19°57'41
direct	14484 Jun 12 00:04	15°♄47'14		desc. node	14485 Jun 10 12:31	13°♄01'06	
morning max el	14484 Jun 20 14:31	20°♄44'36	21°10'29		14485 Jun 22 07:49	0°♄	
desc. node	14484 Jun 23 15:30	24°♄02'19		morning set	14485 Jun 30 15:46	12°♄39'16	
	14484 Jun 28 10:09	0°♄		max. Earth dist.	14485 Jul 11 04:46	29°♄06'22	1.44556 AU
	14484 Jul 19 00:17	0°♄			14485 Jul 11 18:16	0°♄	
morning set	14484 Jul 21 11:52	3°♄51'53		superior conj	14485 Jul 16 12:45	7°♄39'38	-2°03'32
max. Earth dist.	14484 Jul 28 17:09	15°♄23'30	1.42880 AU	minimum elong	14485 Jul 16 19:06	8°♄05'27	2°04'03
				evening rise	14485 Jul 29 20:28	29°♄52'51	
superior conj	14484 Aug 04 22:11	27°♄23'43	-1°37'55		14485 Jul 29 22:08	0°♄	
minimum elong	14484 Aug 05 05:27	27°♄54'40	1°37'44	asc. node	14485 Aug 04 14:26	9°♄38'58	
	14484 Aug 06 10:44	0°♄		evening max el	14485 Aug 16 09:35	26°♄38'59	18°04'56
evening rise	14484 Aug 16 12:02	17°♄44'37		retrograde	14485 Aug 22 19:05	29°♄59'21	
asc. node	14484 Aug 17 17:50	19°♄58'22		evening set	14485 Aug 25 11:44	29°♄22'10	
	14484 Aug 23 10:23	0°♄		inferior conj	14485 Aug 31 18:36	24°♄07'10	1°37'30
evening max el	14484 Sep 01 19:11	13°♄18'41	18°04'07	minimum elong	14485 Aug 31 20:53	24°♄01'03	1°36'34
retrograde	14484 Sep 08 13:51	16°♄47'32		min. Earth dist.	14485 Sep 03 13:18	21°♄10'12	0.62781 AU
evening set	14484 Sep 10 22:08	16°♄22'40		desc. node	14485 Sep 06 09:46	18°♄31'26	
inferior conj	14484 Sep 17 19:50	11°♄25'51	0°31'02	morning rise	14485 Sep 07 03:50	17°♄56'29	
minimum elong	14484 Sep 17 20:48	11°♄23'34	0°30'46	direct	14485 Sep 13 20:02	15°♄29'09	
desc. node	14484 Sep 19 12:14	9°♄50'16		morning max el	14485 Sep 27 20:49	23°♄29'49	27°53'42
min. Earth dist.	14484 Sep 21 00:05	8°♄27'40	0.60510 AU		14485 Oct 03 16:35	0°♄	
morning rise	14484 Sep 24 16:22	5°♄35'16			14485 Oct 23 12:31	0°♄	
direct	14484 Oct 01 06:43	3°♄27'22		asc. node	14485 Oct 31 16:28	15°♄31'10	
morning max el	14484 Oct 15 13:17	11°♄20'47	27°54'30	morning set	14485 Nov 01 04:57	16°♄34'21	
	14484 Oct 30 04:54	0°♄		max. Earth dist.	14485 Nov 06 09:08	27°♄25'02	1.31921 AU
asc. node	14484 Nov 13 19:43	25°♄38'09			14485 Nov 07 13:46	0°♄	
	14484 Nov 15 23:34	0°♄		superior conj	14485 Nov 08 19:55	2°♄44'32	1°10'13
morning set	14484 Nov 17 07:24	2°♄44'51		minimum elong	14485 Nov 08 17:38	2°♄32'01	1°10'46
max. Earth dist.	14484 Nov 23 06:25	15°♄37'58	1.31257 AU	evening rise	14485 Nov 15 14:47	17°♄37'04	
					14485 Nov 21 14:37	0°♄	
superior conj	14484 Nov 24 11:21	18°♄18'44	1°25'19	desc. node	14485 Dec 03 06:36	19°♄24'26	
minimum elong	14484 Nov 24 09:29	18°♄08'17	1°26'08	evening max el	14485 Dec 10 00:40	27°♄14'15	24°01'30
	14484 Nov 29 17:42	0°♄			14485 Dec 13 06:03	0°♄	
evening rise	14484 Dec 01 03:59	3°♄06'26		retrograde	14485 Dec 23 14:31	3°♄59'13	
	14484 Dec 15 07:43	0°♄		evening set	14485 Dec 28 12:02	3°♄07'00	
desc. node	14484 Dec 16 09:34	1°♄41'36		min. Earth dist.	14486 Jan 03 12:05	0°♄09'36	0.55554 AU
evening max el	14484 Dec 28 13:12	16°♄58'48	25°37'04		14486 Jan 03 18:32	30°♄	
retrograde	14485 Jan 11 10:45	23°♄59'12		inferior conj	14486 Jan 05 12:02	28°♄57'25	-5°41'25
evening set	14485 Jan 17 09:57	22°♄37'11		minimum elong	14486 Jan 05 18:17	28°♄47'59	5°39'37
min. Earth dist.	14485 Jan 22 01:50	19°♄58'08	0.57209 AU	morning rise	14486 Jan 14 02:20	25°♄00'04	
inferior conj	14485 Jan 24 23:00	18°♄00'09	-4°38'48	direct	14486 Jan 16 14:34	24°♄43'59	
minimum elong	14485 Jan 25 08:03	17°♄44'40	4°35'34	morning max el	14486 Jan 27 01:21	29°♄46'06	20°02'17
morning rise	14485 Feb 02 08:58	13°♄43'52			14486 Jan 27 07:03	0°♄	
direct	14485 Feb 04 10:54	13°♄30'42		asc. node	14486 Jan 27 15:36	0°♄21'28	
asc. node	14485 Feb 09 18:14	15°♄02'17		morning set	14486 Feb 14 00:32	28°♄53'48	
morning max el	14485 Feb 13 09:28	17°♄52'26	18°56'11		14486 Feb 14 13:31	0°♄	
	14485 Feb 22 04:05	0°♄		superior conj	14486 Feb 21 18:26	14°♄39'46	0°59'29
morning set	14485 Mar 01 19:13	14°♄18'44		minimum elong	14486 Feb 21 21:06	14°♄53'05	0°59'28
	14485 Mar 09 20:05	0°♄		max. Earth dist.	14486 Feb 27 15:33	26°♄04'50	1.36945 AU
superior conj	14485 Mar 10 07:53	0°♄56'16	0°33'31	desc. node	14486 Mar 01 07:32	29°♄11'03	
minimum elong	14485 Mar 10 09:55	1°♄05'55	0°33'16		14486 Mar 01 18:11	0°♄	
desc. node	14485 Mar 14 11:02	8°♄38'49		evening rise	14486 Mar 03 09:30	2°♄58'37	
max. Earth dist.	14485 Mar 17 08:59	13°♄53'54	1.39188 AU				
evening rise	14485 Mar 21 05:32	20°♄36'34					

	14486 Mar 19 22:48	0°♄		evening rise	14487 Feb 14 05:53	16°♄00'35	
evening max el	14486 Apr 07 21:16	23°♄58'27	25°36'56	desc. node	14487 Feb 16 04:05	19°♄36'31	
	14486 Apr 15 19:59	0°♄			14487 Feb 22 00:42	0°♄	
retrograde	14486 Apr 20 06:36	1°♄07'13			14487 Mar 14 10:42	0°♄	
	14486 Apr 24 08:04	30°♄		evening max el	14487 Mar 21 11:08	7°♄45'07	26°38'58
asc. node	14486 Apr 25 12:06	29°♄14'17		retrograde	14487 Apr 03 13:48	15°♄09'07	
evening set	14486 Apr 26 05:57	28°♄39'02		evening set	14487 Apr 09 23:17	12°♄37'01	
min. Earth dist.	14486 Apr 30 12:38	23°♄59'32	0.67703 AU	asc. node	14487 Apr 12 09:30	10°♄20'26	
inferior conj	14486 May 01 23:21	22°♄08'28	1°52'33	min. Earth dist.	14487 Apr 14 00:14	8°♄32'13	0.66409 AU
minimum elong	14486 May 01 21:13	22°♄15'17	1°51'08	inferior conj	14487 Apr 15 23:32	6°♄11'24	1°05'52
morning rise	14486 May 07 13:00	16°♄17'44		minimum elong	14487 Apr 15 21:58	6°♄16'06	1°04'47
direct	14486 May 10 23:37	15°♄09'48		morning rise	14487 Apr 21 21:45	0°♄32'06	
morning max el	14486 May 17 19:19	18°♄51'38	18°59'38		14487 Apr 23 02:30	30°♄	
	14486 May 26 15:31	0°♄		direct	14487 Apr 24 22:02	29°♄41'38	
desc. node	14486 May 28 09:26	2°♄32'37			14487 Apr 26 18:12	0°♄	
greatest brilliancy	14486 May 31 00:55	6°♄29'16	-0.7m	morning max el	14487 May 01 07:49	3°♄04'27	18°18'02
morning set	14486 Jun 09 22:23	21°♄39'47		desc. node	14487 May 15 06:15	22°♄27'39	
	14486 Jun 15 07:29	0°♄			14487 May 20 00:06	0°♄	
max. Earth dist.	14486 Jun 23 21:51	13°♄23'50	1.45599 AU	morning set	14487 May 21 02:36	1°♄45'33	
superior conj	14486 Jun 26 06:19	17°♄05'18	-2°13'48	superior conj	14487 Jun 05 14:32	26°♄12'23	-2°04'04
minimum elong	14486 Jun 26 06:36	17°♄06'24	2°14'49	minimum elong	14487 Jun 05 07:33	25°♄45'08	2°04'43
	14486 Jul 04 09:46	0°♄		max. Earth dist.	14487 Jun 06 18:01	27°♄59'40	1.45905 AU
evening rise	14486 Jul 11 05:46	11°♄01'14			14487 Jun 08 00:52	0°♄	
asc. node	14486 Jul 22 11:07	29°♄00'58		evening rise	14487 Jun 21 14:31	21°♄09'22	
	14486 Jul 23 02:38	0°♄			14487 Jun 27 06:35	0°♄	
evening max el	14486 Jul 30 23:34	10°♄16'01	18°23'50	greatest brilliancy	14487 Jul 01 23:37	7°♄16'03	-0.8m
retrograde	14486 Aug 06 09:20	13°♄41'28		asc. node	14487 Jul 09 07:54	17°♄57'33	
evening set	14486 Aug 09 10:49	12°♄49'21		evening max el	14487 Jul 14 10:19	24°♄02'16	19°00'00
inferior conj	14486 Aug 15 06:26	7°♄18'10	2°23'52	retrograde	14487 Jul 21 05:10	27°♄46'14	
minimum elong	14486 Aug 15 08:46	7°♄11'15	2°22'48	evening set	14487 Jul 24 15:50	26°♄37'34	
min. Earth dist.	14486 Aug 17 11:52	4°♄40'52	0.64846 AU	inferior conj	14487 Jul 30 03:45	20°♄51'51	2°53'05
morning rise	14486 Aug 21 05:23	0°♄56'44		minimum elong	14487 Jul 30 05:26	20°♄46'27	2°52'04
	14486 Aug 22 12:17	30°♄		min. Earth dist.	14487 Jul 31 18:47	18°♄47'24	0.66557 AU
desc. node	14486 Aug 24 07:17	29°♄02'01		morning rise	14487 Aug 04 18:19	14°♄26'43	
direct	14486 Aug 27 17:51	28°♄19'12		direct	14487 Aug 10 22:48	11°♄48'21	
	14486 Sep 02 11:41	0°♄		desc. node	14487 Aug 11 04:46	11°♄48'35	
morning max el	14486 Sep 10 07:19	6°♄15'16	27°18'03	morning max el	14487 Aug 23 18:38	19°♄26'14	26°15'19
	14486 Sep 28 12:45	0°♄			14487 Sep 01 18:46	0°♄	
morning set	14486 Oct 15 17:16	29°♄55'54			14487 Sep 21 14:21	0°♄	
	14486 Oct 15 18:07	0°♄		morning set	14487 Sep 28 17:09	12°♄42'32	
asc. node	14486 Oct 18 13:08	5°♄33'13		max. Earth dist.	14487 Oct 02 13:10	20°♄01'00	1.34879 AU
max. Earth dist.	14486 Oct 20 03:57	8°♄51'22	1.33142 AU	asc. node	14487 Oct 05 09:45	25°♄40'23	
superior conj	14486 Oct 23 23:57	16°♄53'58	0°49'19	superior conj	14487 Oct 07 20:56	0°♄41'00	0°22'49
minimum elong	14486 Oct 23 21:48	16°♄42'35	0°49'37	minimum elong	14487 Oct 07 19:42	0°♄34'36	0°23'00
	14486 Oct 30 02:04	0°♄			14487 Oct 07 12:57	0°♄	
evening rise	14486 Oct 31 01:35	2°♄05'39		evening rise	14487 Oct 15 10:26	16°♄27'36	
	14486 Nov 15 09:19	0°♄			14487 Oct 22 05:29	0°♄	
desc. node	14486 Nov 20 03:46	5°♄52'29		evening max el	14487 Nov 03 06:37	17°♄33'18	20°46'05
evening max el	14486 Nov 21 11:18	7°♄13'07	22°18'50	desc. node	14487 Nov 07 01:02	20°♄41'18	
retrograde	14486 Dec 04 05:34	13°♄32'20		retrograde	14487 Nov 14 15:59	23°♄13'03	
evening set	14486 Dec 07 18:50	13°♄04'34		evening set	14487 Nov 17 01:57	22°♄58'54	
inferior conj	14486 Dec 16 08:23	9°♄10'22	-5°58'00	inferior conj	14487 Nov 25 23:41	19°♄05'12	-5°14'12
minimum elong	14486 Dec 16 06:12	9°♄13'25	5°56'52	minimum elong	14487 Nov 25 14:23	19°♄18'31	5°11'12
min. Earth dist.	14486 Dec 15 18:14	9°♄30'12	0.54606 AU	min. Earth dist.	14487 Nov 27 00:04	18°♄30'15	0.54558 AU
morning rise	14486 Dec 24 18:40	5°♄23'10		morning rise	14487 Dec 04 02:54	15°♄10'21	
direct	14486 Dec 28 02:49	4°♄58'09		direct	14487 Dec 08 10:31	14°♄30'24	
morning max el	14487 Jan 09 02:22	10°♄43'17	21°31'11	morning max el	14487 Dec 21 15:27	20°♄55'21	23°16'57
asc. node	14487 Jan 14 12:55	17°♄00'00			14487 Dec 29 07:28	0°♄	
	14487 Jan 22 14:10	0°♄		asc. node	14488 Jan 01 10:09	4°♄40'41	
morning set	14487 Jan 29 10:06	13°♄37'07		morning set	14488 Jan 13 21:45	28°♄22'34	
					14488 Jan 14 15:58	0°♄	
superior conj	14487 Feb 05 15:16	28°♄49'40	1°18'37	superior conj	14488 Jan 20 19:16	13°♄17'23	1°31'06
minimum elong	14487 Feb 05 17:39	29°♄02'06	1°18'58	minimum elong	14488 Jan 20 20:51	13°♄25'54	1°31'49
	14487 Feb 06 04:48	0°♄		max. Earth dist.	14488 Jan 23 21:07	19°♄50'43	1.33232 AU
max. Earth dist.	14487 Feb 10 02:43	7°♄58'19	1.34907 AU				



evening rise	14488 Jan 28 15:12	29° $\approx$ 33'45		asc. node	14488 Dec 18 07:16	23° $\approx$ 08'08	
	14488 Jan 28 20:31	0° $\text{H}$			14488 Dec 22 00:28	0° $\text{Z}$	
desc. node	14488 Feb 03 00:41	9° $\text{H}$ 50'58		morning set	14488 Dec 28 09:36	13° $\text{Z}$ 04'28	
	14488 Feb 15 03:06	0° $\text{Y}$					
evening max el	14488 Mar 03 00:28	21° $\text{Y}$ 15'05	27°20'27	superior conj	14489 Jan 04 03:51	27° $\text{Z}$ 55'20	1°37'13
retrograde	14488 Mar 16 14:48	28° $\text{Y}$ 44'15		minimum elong	14489 Jan 04 04:23	27° $\text{Z}$ 58'19	1°38'11
evening set	14488 Mar 23 08:01	26° $\text{Y}$ 14'18			14489 Jan 05 02:30	0° $\approx$	
min. Earth dist.	14488 Mar 27 04:29	22° $\text{Y}$ 41'41	0.64726 AU	max. Earth dist.	14489 Jan 05 22:40	1° $\approx$ 50'24	1.32014 AU
asc. node	14488 Mar 29 06:58	20° $\text{Y}$ 24'53		evening rise	14489 Jan 11 10:18	13° $\approx$ 30'17	
inferior conj	14488 Mar 29 15:57	20° $\text{Y}$ 00'20	0°07'09	desc. node	14489 Jan 19 21:23	29° $\approx$ 49'01	
minimum elong	14488 Mar 29 15:45	20° $\text{Y}$ 00'53	0°06'49		14489 Jan 19 23:50	0° $\text{H}$	
transit middle	14488 Mar 29 15:45	20° $\text{Y}$ 00'53	0°06'49		14489 Feb 09 09:23	0° $\text{Y}$	
transit begin	14488 Mar 29 12:59	20° $\text{Y}$ 08'26		evening max el	14489 Feb 13 11:40	4° $\text{Y}$ 16'43	27°34'37
transit end	14488 Mar 29 18:31	19° $\text{Y}$ 53'20		retrograde	14489 Feb 27 08:48	11° $\text{Y}$ 43'09	
morning rise	14488 Apr 05 01:24	14° $\text{Y}$ 34'44		evening set	14489 Mar 06 05:39	9° $\text{Y}$ 22'45	
direct	14488 Apr 07 16:29	13° $\text{Y}$ 58'50		min. Earth dist.	14489 Mar 09 23:47	6° $\text{Y}$ 17'36	0.62729 AU
morning max el	14488 Apr 14 00:27	17° $\text{Y}$ 15'01	17°53'27	inferior conj	14489 Mar 12 21:38	3° $\text{Y}$ 28'03	-1°03'48
	14488 Apr 23 10:04	0° $\text{B}$		minimum elong	14489 Mar 12 23:46	3° $\text{Y}$ 22'51	1°02'53
morning set	14488 May 01 10:52	13° $\text{B}$ 12'33		asc. node	14489 Mar 16 04:26	0° $\text{Y}$ 29'23	
desc. node	14488 May 01 02:58	12° $\text{B}$ 39'41			14489 Mar 16 19:45	30° $\text{R}$ $\text{H}$	
	14488 May 11 16:15	0° $\text{II}$		morning rise	14489 Mar 19 20:39	28° $\text{H}$ 18'39	
				direct	14489 Mar 22 03:57	27° $\text{H}$ 53'51	
superior conj	14488 May 15 06:50	5° $\text{II}$ 47'09	-1°36'36		14489 Mar 27 08:22	0° $\text{Y}$	
minimum elong	14488 May 14 22:01	5° $\text{II}$ 11'59	1°36'36	morning max el	14489 Mar 28 18:15	1° $\text{Y}$ 14'58	17°46'19
max. Earth dist.	14488 May 19 14:08	12° $\text{II}$ 35'46	1.45460 AU	morning set	14489 Apr 13 19:55	25° $\text{Y}$ 50'17	
	14488 May 30 19:28	0° $\text{E}$			14489 Apr 16 05:13	0° $\text{B}$	
evening rise	14488 May 31 05:17	0° $\text{E}$ 37'35		desc. node	14489 Apr 17 23:36	3° $\text{B}$ 03'41	
greatest brilliancy	14488 Jun 14 20:33	22° $\text{E}$ 37'35	-0.6m				
	14488 Jun 20 02:29	0° $\Omega$		superior conj	14489 Apr 25 19:56	16° $\text{B}$ 21'57	-0°59'20
asc. node	14488 Jun 25 04:47	6° $\Omega$ 19'23		minimum elong	14489 Apr 25 14:09	15° $\text{B}$ 57'59	0°59'11
evening max el	14488 Jun 26 15:49	7° $\Omega$ 51'47	19°52'15	max. Earth dist.	14489 May 02 07:38	26° $\text{B}$ 56'15	1.44321 AU
retrograde	14488 Jul 04 03:41	12° $\Omega$ 06'26			14489 May 04 05:46	0° $\text{II}$	
evening set	14488 Jul 08 00:05	10° $\Omega$ 40'38		evening rise	14489 May 10 17:05	10° $\text{II}$ 06'37	
inferior conj	14488 Jul 13 07:31	4° $\Omega$ 41'53	3°07'56		14489 May 23 23:31	0° $\text{E}$	
minimum elong	14488 Jul 13 08:16	4° $\Omega$ 39'23	3°06'57	evening max el	14489 Jun 09 15:23	21° $\text{E}$ 42'28	20°58'17
min. Earth dist.	14488 Jul 14 08:21	3° $\Omega$ 18'15	0.67841 AU	asc. node	14489 Jun 12 01:46	23° $\text{E}$ 55'16	
	14488 Jul 16 23:43	30° $\text{R}$ $\text{E}$		retrograde	14489 Jun 18 02:41	26° $\text{E}$ 36'55	
morning rise	14488 Jul 18 16:03	28° $\text{E}$ 17'51		evening set	14489 Jun 22 09:29	24° $\text{E}$ 54'12	
direct	14488 Jul 24 09:53	25° $\text{E}$ 46'47		inferior conj	14489 Jun 27 15:16	18° $\text{E}$ 43'56	3°10'29
desc. node	14488 Jul 28 02:11	26° $\text{E}$ 38'08		minimum elong	14489 Jun 27 15:01	18° $\text{E}$ 44'49	3°09'27
	14488 Aug 02 04:01	0° $\Omega$		min. Earth dist.	14489 Jun 28 02:28	18° $\text{E}$ 05'03	0.68666 AU
morning max el	14488 Aug 05 05:28	2° $\Omega$ 51'41	24°54'35	morning rise	14489 Jul 02 20:17	12° $\text{E}$ 24'17	
	14488 Aug 25 22:12	0° $\text{M}$		direct	14489 Jul 08 02:09	10° $\text{E}$ 06'48	
morning set	14488 Sep 10 00:31	24° $\text{M}$ 44'01		desc. node	14489 Jul 14 23:30	13° $\text{E}$ 05'39	
	14488 Sep 12 22:54	0° $\text{L}$		morning max el	14489 Jul 18 16:12	16° $\text{E}$ 25'30	23°25'35
max. Earth dist.	14488 Sep 13 14:04	1° $\text{L}$ 09'24	1.37024 AU		14489 Jul 29 21:17	0° $\Omega$	
					14489 Aug 18 22:13	0° $\text{M}$	
superior conj	14488 Sep 20 07:45	13° $\text{L}$ 57'12	-0°08'40	morning set	14489 Aug 22 10:53	5° $\text{M}$ 49'46	
minimum elong	14488 Sep 20 08:18	13° $\text{L}$ 59'54	0°08'25	max. Earth dist.	14489 Aug 26 11:52	12° $\text{M}$ 43'36	1.39387 AU
behind sun begin	14488 Sep 20 02:39	13° $\text{L}$ 32'15					
behind sun end	14488 Sep 20 13:56	14° $\text{L}$ 27'36		superior conj	14489 Sep 03 04:37	26° $\text{M}$ 34'03	-0°43'35
asc. node	14488 Sep 21 06:20	15° $\text{L}$ 48'18		minimum elong	14489 Sep 03 07:50	26° $\text{M}$ 48'58	0°43'12
	14488 Sep 28 07:50	0° $\text{M}$			14489 Sep 05 00:37	0° $\text{L}$	
evening rise	14488 Sep 28 14:59	0° $\text{M}$ 36'03		asc. node	14489 Sep 08 02:53	5° $\text{L}$ 53'36	
evening max el	14488 Oct 15 16:05	28° $\text{M}$ 38'55	19°33'01	evening rise	14489 Sep 12 12:26	14° $\text{L}$ 23'55	
	14488 Oct 17 03:01	0° $\text{J}$			14489 Sep 20 22:41	0° $\text{M}$	
desc. node	14488 Oct 23 22:24	3° $\text{J}$ 24'57		evening max el	14489 Sep 28 14:50	10° $\text{M}$ 33'37	18°42'04
retrograde	14488 Oct 25 10:08	3° $\text{J}$ 31'32		retrograde	14489 Oct 06 21:08	14° $\text{M}$ 43'31	
evening set	14488 Oct 27 07:43	3° $\text{J}$ 21'15		evening set	14489 Oct 08 19:03	14° $\text{M}$ 30'54	
	14488 Nov 03 20:53	30° $\text{R}$ $\text{M}$		desc. node	14489 Oct 10 19:48	13° $\text{M}$ 51'52	
inferior conj	14488 Nov 05 00:35	29° $\text{M}$ 16'11	-3°43'08	inferior conj	14489 Oct 16 20:51	10° $\text{M}$ 06'55	-1°55'39
minimum elong	14488 Nov 04 15:27	29° $\text{M}$ 30'45	3°39'10	minimum elong	14489 Oct 16 16:07	10° $\text{M}$ 15'42	1°53'11
min. Earth dist.	14488 Nov 07 09:03	27° $\text{M}$ 46'16	0.55432 AU	min. Earth dist.	14489 Oct 19 23:35	7° $\text{M}$ 49'13	0.57074 AU
morning rise	14488 Nov 12 21:13	24° $\text{M}$ 53'48		morning rise	14489 Oct 24 09:50	5° $\text{M}$ 07'45	
direct	14488 Nov 18 02:29	23° $\text{M}$ 52'50		direct	14489 Oct 30 08:48	3° $\text{M}$ 40'42	
	14488 Dec 01 02:29	0° $\text{J}$		morning max el	14489 Nov 13 14:31	11° $\text{M}$ 05'59	26°37'06
morning max el	14488 Dec 02 00:53	0° $\text{J}$ 51'44	25°05'13		14489 Nov 28 04:30	0° $\text{J}$	

asc. node	14489 Dec 05 04:16	12°♊10'20		asc. node	14490 Nov 22 01:10	1°♊38'05	
morning set	14489 Dec 12 19:51	27°♊37'52		morning set	14490 Nov 27 02:48	11°♊58'28	
	14489 Dec 13 22:11	0°♊		max. Earth dist.	14490 Dec 03 13:20	26°♊03'56	1.31120 AU
superior conj	14489 Dec 19 14:50	12°♊36'55	1°37'16	superior conj	14490 Dec 04 02:22	27°♊16'49	1°31'23
minimum elong	14489 Dec 19 14:19	12°♊33'58	1°38'18	minimum elong	14490 Dec 04 00:55	27°♊08'39	1°32'18
max. Earth dist.	14489 Dec 20 05:09	13°♊56'44	1.31305 AU		14490 Dec 05 07:33	0°♊	
evening rise	14489 Dec 26 12:31	27°♊43'26		evening rise	14490 Dec 10 19:38	12°♊07'44	
	14489 Dec 27 14:33	0°♊			14490 Dec 19 18:09	0°♊	
desc. node	14490 Jan 06 18:08	19°♋23'20		desc. node	14490 Dec 24 14:59	8°♋25'02	
	14490 Jan 13 07:58	0°♋		evening max el	14491 Jan 08 18:14	28°♋07'50	26°22'20
evening max el	14490 Jan 26 18:27	16°♋37'20	27°15'55		14491 Jan 10 20:40	0°♋	
retrograde	14490 Feb 09 18:16	23°♋55'05		retrograde	14491 Jan 22 17:21	5°♋14'02	
evening set	14490 Feb 16 13:01	21°♋52'25		evening set	14491 Jan 29 02:28	3°♋35'56	
min. Earth dist.	14490 Feb 20 08:59	19°♋06'58	0.60548 AU	min. Earth dist.	14491 Feb 02 07:45	0°♋58'58	0.58374 AU
inferior conj	14490 Feb 23 13:02	16°♋24'38	-2°25'25		14491 Feb 03 16:02	30°♌	
minimum elong	14490 Feb 23 18:20	16°♋13'16	2°23'00	inferior conj	14491 Feb 05 10:33	28°♌40'32	-3°51'44
morning rise	14490 Mar 03 02:55	11°♋34'06		minimum elong	14491 Feb 05 18:52	28°♌25'06	3°48'22
asc. node	14490 Mar 03 01:54	11°♋34'48		morning rise	14491 Feb 13 14:21	24°♌11'13	
direct	14490 Mar 05 04:43	11°♋16'42		direct	14491 Feb 15 14:35	23°♌57'29	
morning max el	14490 Mar 12 09:46	14°♋53'22	17°57'29	asc. node	14491 Feb 17 23:19	24°♌17'24	
	14490 Mar 22 19:44	0°♌		morning max el	14491 Feb 23 19:15	27°♌59'54	18°28'29
morning set	14490 Mar 27 23:33	9°♌19'20			14491 Feb 25 15:45	0°♌	
desc. node	14490 Apr 04 20:09	23°♌34'39		morning set	14491 Mar 11 16:19	23°♌23'29	
					14491 Mar 15 03:00	0°♌	
superior conj	14490 Apr 07 08:49	28°♌01'59	-0°20'13	superior conj	14491 Mar 20 18:56	10°♌39'42	0°15'32
minimum elong	14490 Apr 07 07:03	27°♌54'15	0°20'18	minimum elong	14491 Mar 20 20:01	10°♌44'42	0°15'16
	14490 Apr 08 11:58	0°♌		behind sun begin	14491 Mar 20 17:57	10°♌35'11	
max. Earth dist.	14490 Apr 14 20:57	10°♌46'49	1.42608 AU	behind sun end	14491 Mar 20 22:05	10°♌54'12	
evening rise	14490 Apr 20 16:59	20°♌12'57		desc. node	14491 Mar 22 16:41	14°♌08'58	
	14490 Apr 27 00:11	0°♌		max. Earth dist.	14491 Mar 28 06:05	23°♌58'51	1.40502 AU
	14490 May 18 10:10	0°♌			14491 Mar 31 19:18	0°♌	
evening max el	14490 May 23 09:45	5°♌33'47	22°14'26	evening rise	14491 Apr 01 12:54	1°♌13'09	
asc. node	14490 May 29 22:50	10°♌30'01			14491 Apr 20 08:55	0°♌	
retrograde	14490 Jun 02 00:21	11°♌12'00		evening max el	14491 May 06 00:45	19°♌26'36	23°35'25
evening set	14490 Jun 06 18:17	9°♌13'19		retrograde	14491 May 16 19:22	25°♌46'29	
inferior conj	14490 Jun 12 00:50	2°♌53'28	3°02'06	asc. node	14491 May 16 20:00	25°♌46'29	
minimum elong	14490 Jun 11 23:42	2°♌57'28	3°00'55	evening set	14491 May 22 00:55	23°♌33'39	
min. Earth dist.	14490 Jun 11 22:56	3°♌00'08	0.69012 AU	inferior conj	14491 May 27 10:19	17°♌06'41	2°43'20
	14490 Jun 14 03:50	30°♌		minimum elong	14491 May 27 08:30	17°♌12'57	2°42'00
morning rise	14490 Jun 17 04:55	26°♌40'16		min. Earth dist.	14491 May 26 19:33	17°♌57'21	0.68874 AU
direct	14490 Jun 21 22:15	24°♌40'46		morning rise	14491 Jun 01 16:03	11°♌01'27	
morning max el	14490 Jul 01 05:14	0°♌06'53	21°57'33	direct	14491 Jun 05 20:58	9°♌22'07	
	14490 Jul 01 02:28	0°♌		morning max el	14491 Jun 13 23:49	13°♌59'09	20°37'47
desc. node	14490 Jul 01 20:42	0°♌46'23		desc. node	14491 Jun 18 17:49	19°♌21'03	
	14490 Jul 23 15:16	0°♌			14491 Jun 26 15:32	0°♌	
morning set	14490 Aug 02 20:53	15°♌51'49		morning set	14491 Jul 13 08:33	24°♌57'25	
max. Earth dist.	14490 Aug 08 13:20	25°♌07'57	1.41695 AU		14491 Jul 16 14:10	0°♌	
	14490 Aug 11 10:55	0°♌		max. Earth dist.	14491 Jul 21 21:57	8°♌27'36	1.43670 AU
superior conj	14490 Aug 16 07:14	8°♌22'02	-1°19'04	superior conj	14491 Jul 28 11:31	19°♌12'18	-1°50'12
minimum elong	14490 Aug 16 13:21	8°♌48'56	1°18'42	minimum elong	14491 Jul 28 18:58	19°♌43'22	1°50'17
asc. node	14490 Aug 25 23:27	25°♌52'43			14491 Aug 03 20:25	0°♌	
evening rise	14490 Aug 26 23:12	27°♌42'23		evening rise	14491 Aug 09 18:46	10°♌20'04	
	14490 Aug 28 05:01	0°♌		asc. node	14491 Aug 12 20:02	15°♌41'23	
evening max el	14490 Sep 11 22:55	23°♌09'36	18°12'18		14491 Aug 21 11:58	0°♌	
retrograde	14490 Sep 19 03:17	26°♌49'10		evening max el	14491 Aug 26 12:04	6°♌16'08	18°02'11
evening set	14490 Sep 21 07:17	26°♌29'45		retrograde	14491 Sep 02 01:29	9°♌39'35	
desc. node	14490 Sep 27 17:15	22°♌30'45		evening set	14491 Sep 04 13:22	9°♌09'42	
inferior conj	14490 Sep 28 14:53	21°♌44'28	-0°17'01	inferior conj	14491 Sep 11 04:17	4°♌04'35	1°01'52
minimum elong	14490 Sep 28 14:17	21°♌45'45	0°16'29	minimum elong	14491 Sep 11 06:00	4°♌00'17	1°01'13
min. Earth dist.	14490 Oct 01 21:39	18°♌55'17	0.59195 AU	min. Earth dist.	14491 Sep 14 05:00	1°♌04'44	0.61489 AU
morning rise	14490 Oct 05 17:54	16°♌10'40		desc. node	14491 Sep 14 14:46	0°♌41'49	
direct	14490 Oct 12 04:39	14°♌16'48			14491 Sep 15 09:14	30°♌	
morning max el	14490 Oct 26 11:49	22°♌01'13	27°37'24	morning rise	14491 Sep 17 19:58	28°♌04'23	
	14490 Nov 02 12:41	0°♌		direct	14491 Sep 24 11:50	25°♌47'34	
	14490 Nov 21 04:58	0°♌					

	14491 Oct 04 11:12	0°♄		direct	14492 Sep 06 04:50	8°♄11'02	
morning max el	14491 Oct 08 16:25	3°♄44'28	27°58'58	morning max el	14492 Sep 20 01:50	16°♄11'29	27°42'28
	14491 Oct 28 04:37	0°♄			14492 Oct 01 11:32	0°♄	
asc. node	14491 Nov 08 21:58	21°♄23'17			14492 Oct 19 22:35	0°♄	
morning set	14491 Nov 11 04:25	26°♄00'17		morning set	14492 Oct 24 22:24	9°♄38'34	
	14491 Nov 13 02:12	0°♄		asc. node	14492 Oct 25 18:43	11°♄20'43	
max. Earth dist.	14491 Nov 16 19:18	8°♄01'08	1.31472 AU	max. Earth dist.	14492 Oct 29 19:10	19°♄40'07	1.32375 AU
superior conj	14491 Nov 18 12:32	11°♄48'33	1°19'39	superior conj	14492 Nov 01 19:25	26°♄07'36	1°02'03
minimum elong	14491 Nov 18 10:26	11°♄36'53	1°20'20	minimum elong	14492 Nov 01 17:07	25°♄55'07	1°02'29
evening rise	14491 Nov 25 05:35	26°♄36'52			14492 Nov 03 14:07	0°♄	
	14491 Nov 26 19:32	0°♄		evening rise	14492 Nov 08 16:37	11°♄06'48	
desc. node	14491 Dec 11 11:55	26°♄40'51			14492 Nov 18 04:43	0°♄	
	14491 Dec 13 20:10	0°♄		desc. node	14492 Nov 27 09:00	13°♄54'13	
evening max el	14491 Dec 21 09:25	8°♄45'31	24°58'29	evening max el	14492 Dec 01 19:05	18°♄47'47	23°17'30
retrograde	14492 Jan 04 04:12	15°♄39'34		retrograde	14492 Dec 15 02:22	25°♄24'14	
evening set	14492 Jan 09 18:01	14°♄30'08		evening set	14492 Dec 19 10:33	24°♄43'18	
min. Earth dist.	14492 Jan 14 21:21	11°♄45'56	0.56441 AU	min. Earth dist.	14492 Dec 26 05:11	21°♄32'21	0.55045 AU
inferior conj	14492 Jan 17 11:20	10°♄06'15	-5°09'19	inferior conj	14492 Dec 27 16:11	20°♄41'41	-5°55'26
minimum elong	14492 Jan 17 19:58	9°♄52'20	5°06'34	minimum elong	14492 Dec 27 19:20	20°♄37'07	5°54'14
morning rise	14492 Jan 26 00:16	5°♄58'44		morning rise	14493 Jan 05 05:41	16°♄50'40	
direct	14492 Jan 28 05:34	5°♄44'51		direct	14493 Jan 08 01:16	16°♄31'43	
asc. node	14492 Feb 04 20:44	8°♄42'00		morning max el	14493 Jan 19 04:16	21°♄51'53	20°37'39
morning max el	14492 Feb 06 18:36	10°♄22'29	19°21'27	asc. node	14493 Jan 21 18:06	24°♄36'38	
	14492 Feb 19 18:09	0°♄			14493 Jan 25 19:21	0°♄	
morning set	14492 Feb 23 17:58	7°♄49'50		morning set	14493 Feb 07 01:22	22°♄28'57	
					14493 Feb 10 16:17	0°♄	
superior conj	14492 Mar 02 21:49	24°♄02'38	0°45'22	superior conj	14493 Feb 14 13:10	7°♄58'36	1°08'26
minimum elong	14492 Mar 03 00:16	24°♄14'29	0°45'10	minimum elong	14493 Feb 14 15:48	8°♄12'00	1°08'33
	14492 Mar 06 00:27	0°♄		max. Earth dist.	14493 Feb 19 20:22	18°♄29'50	1.36034 AU
desc. node	14492 Mar 08 13:12	4°♄42'52		desc. node	14493 Feb 23 09:44	25°♄12'41	
max. Earth dist.	14492 Mar 09 12:37	6°♄29'49	1.38227 AU	evening rise	14493 Feb 23 17:04	25°♄46'29	
evening rise	14492 Mar 13 05:45	13°♄06'46			14493 Feb 26 01:00	0°♄	
	14492 Mar 23 11:07	0°♄			14493 Mar 16 22:57	0°♄	
	14492 Apr 14 10:13	0°♄		evening max el	14493 Mar 31 03:45	17°♄10'59	26°05'20
evening max el	14492 Apr 17 14:16	3°♄20'09	24°54'47	retrograde	14493 Apr 12 21:18	24°♄28'25	
retrograde	14492 Apr 29 10:40	10°♄14'26		evening set	14493 Apr 19 01:12	21°♄57'36	
asc. node	14492 May 02 17:16	9°♄28'27		asc. node	14493 Apr 19 14:38	21°♄28'34	
evening set	14492 May 05 03:48	7°♄50'25		min. Earth dist.	14493 Apr 23 05:09	17°♄33'16	0.67200 AU
min. Earth dist.	14492 May 09 14:20	2°♄50'41	0.68261 AU	inferior conj	14493 Apr 24 21:22	15°♄28'12	1°34'12
inferior conj	14492 May 10 17:51	1°♄19'50	2°14'13	minimum elong	14493 Apr 24 19:23	15°♄34'21	1°32'53
minimum elong	14492 May 10 15:41	1°♄26'57	2°12'47	morning rise	14493 Apr 30 14:21	9°♄42'18	
	14492 May 11 18:15	30°♄8		direct	14493 May 03 20:21	8°♄42'18	
morning rise	14492 May 16 03:51	25°♄23'39		morning max el	14493 May 10 11:00	12°♄14'39	18°39'53
direct	14492 May 19 20:52	24°♄04'45		desc. node	14493 May 22 11:43	28°♄17'48	
morning max el	14492 May 27 01:51	28°♄03'03	19°31'05		14493 May 23 14:28	0°♄	
	14492 May 28 22:15	0°♄		morning set	14493 Jun 01 01:08	13°♄07'40	
desc. node	14492 Jun 04 14:49	8°♄35'12			14493 Jun 11 20:29	0°♄	
greatest brilliancy	14492 Jun 08 16:51	14°♄27'20	-0.7m	max. Earth dist.	14493 Jun 16 07:05	6°♄55'42	1.45818 AU
	14492 Jun 19 00:36	0°♄		superior conj	14493 Jun 17 04:01	8°♄17'27	-2°12'10
morning set	14492 Jun 21 11:03	3°♄43'58		minimum elong	14493 Jun 17 00:54	8°♄05'15	2°13'08
max. Earth dist.	14492 Jul 03 12:42	22°♄29'28	1.45087 AU		14493 Jun 30 22:47	0°♄	
superior conj	14492 Jul 07 16:22	29°♄04'40	-2°10'10	evening rise	14493 Jul 02 16:41	2°♄46'50	
minimum elong	14492 Jul 07 20:44	29°♄22'07	2°10'58	greatest brilliancy	14493 Jul 09 18:35	14°♄03'05	-0.9m
	14492 Jul 08 06:13	0°♄		asc. node	14493 Jul 16 13:25	24°♄27'34	
evening rise	14492 Jul 21 17:59	22°♄04'50			14493 Jul 20 14:39	0°♄	
	14492 Jul 26 11:58	0°♄		evening max el	14493 Jul 23 15:32	3°♄26'12	18°37'07
asc. node	14492 Jul 29 16:41	5°♄15'14		retrograde	14493 Jul 30 04:19	6°♄58'17	
evening max el	14492 Aug 09 02:40	19°♄44'35	18°10'44	evening set	14493 Aug 02 09:32	5°♄59'27	
retrograde	14492 Aug 15 11:15	23°♄05'46		inferior conj	14493 Aug 08 01:29	0°♄21'58	2°38'09
evening set	14492 Aug 18 07:33	22°♄22'31		minimum elong	14493 Aug 08 03:36	0°♄15'28	2°37'06
inferior conj	14492 Aug 24 09:10	17°♄00'09	1°59'27		14493 Aug 08 08:38	30°♄	
minimum elong	14492 Aug 24 11:35	16°♄53'21	1°58'25	min. Earth dist.	14493 Aug 10 00:53	27°♄57'04	0.65623 AU
min. Earth dist.	14492 Aug 26 22:22	14°♄09'41	0.63692 AU	morning rise	14493 Aug 13 20:35	23°♄57'56	
morning rise	14492 Aug 30 13:48	10°♄43'36		desc. node	14493 Aug 18 09:48	21°♄31'19	
desc. node	14492 Aug 31 12:17	10°♄03'12					

direct	14493 Aug 20 06:00	21° $\Omega$ 18'46		min. Earth dist.	14494 Jul 24 10:54	12° $\Omega$ 15'13	0.67168 AU
morning max el	14493 Sep 02 13:02	29° $\Omega$ 09'46	26°54'02	morning rise	14494 Jul 28 13:35	7° $\Omega$ 38'08	
	14493 Sep 03 08:36	0° $\mathbb{N}$		direct	14494 Aug 03 13:55	5° $\Omega$ 01'40	
	14493 Sep 25 08:10	0° $\underline{\Omega}$		desc. node	14494 Aug 05 07:16	5° $\Omega$ 12'55	
morning set	14493 Oct 08 05:52	22° $\underline{\Omega}$ 46'30		morning max el	14494 Aug 16 00:01	12° $\Omega$ 27'22	25°42'21
	14493 Oct 11 22:22	0° $\mathbb{M}$			14494 Aug 30 03:12	0° $\mathbb{N}$	
max. Earth dist.	14493 Oct 12 09:47	0° $\mathbb{M}$ 57'19	1.33818 AU		14494 Sep 18 00:56	0° $\underline{\Omega}$	
asc. node	14493 Oct 12 15:23	1° $\mathbb{M}$ 25'35		morning set	14494 Sep 20 23:13	5° $\underline{\Omega}$ 15'04	
				max. Earth dist.	14494 Sep 24 14:35	12° $\underline{\Omega}$ 01'37	1.35752 AU
superior conj	14493 Oct 16 20:47	10° $\mathbb{M}$ 08'15	0°38'43	asc. node	14494 Sep 29 12:00	21° $\underline{\Omega}$ 33'40	
minimum elong	14493 Oct 16 18:55	9° $\mathbb{M}$ 58'28	0°38'57				
evening rise	14493 Oct 24 02:50	25° $\mathbb{M}$ 32'56		superior conj	14494 Sep 30 13:52	23° $\underline{\Omega}$ 43'22	0°10'00
	14493 Oct 26 05:54	0° $\mathbb{N}$		minimum elong	14494 Sep 30 13:15	23° $\underline{\Omega}$ 40'19	0°10'12
evening max el	14493 Nov 13 08:20	28° $\mathbb{N}$ 51'33	21°37'25	behind sun begin	14494 Sep 30 08:25	23° $\underline{\Omega}$ 15'59	
desc. node	14493 Nov 14 06:11	29° $\mathbb{N}$ 43'23		behind sun end	14494 Sep 30 18:06	24° $\underline{\Omega}$ 04'42	
	14493 Nov 14 13:34	0° $\mathbb{Z}$			14494 Oct 03 15:49	0° $\mathbb{M}$	
retrograde	14493 Nov 25 14:29	4° $\mathbb{Z}$ 55'50		evening rise	14494 Oct 08 10:07	9° $\mathbb{M}$ 49'44	
evening set	14493 Nov 28 14:19	4° $\mathbb{Z}$ 35'31			14494 Oct 19 03:17	0° $\mathbb{N}$	
inferior conj	14493 Dec 07 08:39	0° $\mathbb{Z}$ 43'14	-5°46'46	evening max el	14494 Oct 26 09:34	9° $\mathbb{N}$ 30'02	20°12'21
minimum elong	14493 Dec 07 02:44	0° $\mathbb{Z}$ 51'32	5°45'01	desc. node	14494 Nov 01 03:29	13° $\mathbb{N}$ 41'54	
min. Earth dist.	14493 Dec 07 11:08	0° $\mathbb{Z}$ 39'45	0.54460 AU	retrograde	14494 Nov 06 02:08	14° $\mathbb{N}$ 49'15	
	14493 Dec 08 15:38	30° $\mathbb{R}$ $\mathbb{N}$		evening set	14494 Nov 08 04:58	14° $\mathbb{N}$ 37'41	
morning rise	14493 Dec 15 15:51	26° $\mathbb{N}$ 54'58		inferior conj	14494 Nov 17 02:21	10° $\mathbb{N}$ 40'52	-4°39'36
direct	14493 Dec 19 09:46	26° $\mathbb{N}$ 24'23		minimum elong	14494 Nov 16 16:14	10° $\mathbb{N}$ 55'52	4°35'52
	14493 Dec 29 01:31	0° $\mathbb{Z}$		min. Earth dist.	14494 Nov 18 18:01	9° $\mathbb{N}$ 41'59	0.54822 AU
morning max el	14493 Dec 31 23:36	2° $\mathbb{Z}$ 28'01	22°14'53	morning rise	14494 Nov 25 02:42	6° $\mathbb{N}$ 36'21	
asc. node	14494 Jan 08 15:23	11° $\mathbb{Z}$ 43'51		direct	14494 Nov 29 20:15	5° $\mathbb{N}$ 47'51	
	14494 Jan 19 00:13	0° $\approx$		morning max el	14494 Dec 13 09:44	12° $\mathbb{N}$ 28'18	24°03'50
morning set	14494 Jan 22 12:03	7° $\approx$ 13'55		asc. node	14494 Dec 26 12:35	29° $\mathbb{N}$ 46'16	
					14494 Dec 26 15:52	0° $\mathbb{Z}$	
superior conj	14494 Jan 29 13:25	22° $\approx$ 17'29	1°24'42	morning set	14495 Jan 06 23:58	21° $\mathbb{Z}$ 58'09	
minimum elong	14494 Jan 29 15:31	22° $\approx$ 28'33	1°25'13		14495 Jan 10 16:40	0° $\approx$	
	14494 Feb 02 06:13	0° $\mathbb{X}$					
max. Earth dist.	14494 Feb 02 10:08	0° $\mathbb{X}$ 20'04	1.34133 AU	superior conj	14495 Jan 13 19:36	6° $\approx$ 50'04	1°34'27
evening rise	14494 Feb 06 19:23	9° $\mathbb{X}$ 03'20		minimum elong	14495 Jan 13 20:46	6° $\approx$ 56'21	1°35'17
desc. node	14494 Feb 10 06:18	15° $\mathbb{X}$ 34'26		max. Earth dist.	14495 Jan 16 07:44	12° $\approx$ 15'03	1.32653 AU
	14494 Feb 18 13:53	0° $\mathbb{Y}$		evening rise	14495 Jan 21 09:12	22° $\approx$ 47'23	
	14494 Mar 12 20:17	0° $\mathbb{B}$			14495 Jan 25 01:21	0° $\mathbb{X}$	
evening max el	14494 Mar 13 17:32	0° $\mathbb{B}$ 52'25	26°59'38	desc. node	14495 Jan 28 02:54	5° $\mathbb{X}$ 42'37	
retrograde	14494 Mar 27 02:14	8° $\mathbb{B}$ 20'31			14495 Feb 12 07:13	0° $\mathbb{Y}$	
evening set	14494 Apr 02 15:12	5° $\mathbb{B}$ 48'35		evening max el	14495 Feb 24 06:23	14° $\mathbb{Y}$ 12'27	27°30'21
min. Earth dist.	14494 Apr 06 14:01	1° $\mathbb{B}$ 57'41	0.65731 AU	retrograde	14495 Mar 10 00:16	21° $\mathbb{Y}$ 40'51	
asc. node	14494 Apr 06 12:02	2° $\mathbb{B}$ 03'15		evening set	14495 Mar 16 19:28	19° $\mathbb{Y}$ 14'24	
	14494 Apr 08 07:05	30° $\mathbb{R}$ $\mathbb{Y}$		min. Earth dist.	14495 Mar 20 14:45	15° $\mathbb{Y}$ 53'54	0.63906 AU
inferior conj	14494 Apr 08 18:36	29° $\mathbb{Y}$ 26'41	0°42'33	inferior conj	14495 Mar 23 06:49	13° $\mathbb{Y}$ 07'39	-0°21'26
minimum elong	14494 Apr 08 17:30	29° $\mathbb{Y}$ 29'52	0°41'42	minimum elong	14495 Mar 23 07:29	13° $\mathbb{Y}$ 05'54	0°21'18
morning rise	14494 Apr 14 21:16	23° $\mathbb{Y}$ 52'49		asc. node	14495 Mar 24 09:29	11° $\mathbb{Y}$ 59'05	
direct	14494 Apr 17 17:23	23° $\mathbb{Y}$ 09'03		morning rise	14495 Mar 29 21:45	7° $\mathbb{Y}$ 48'15	
morning max el	14494 Apr 24 01:35	26° $\mathbb{Y}$ 27'58	18°05'26	direct	14495 Apr 01 09:20	7° $\mathbb{Y}$ 17'27	
	14494 Apr 27 04:46	0° $\mathbb{B}$		morning max el	14495 Apr 07 18:58	10° $\mathbb{Y}$ 34'30	17°48'13
desc. node	14494 May 09 08:31	18° $\mathbb{B}$ 21'19			14495 Apr 21 02:38	0° $\mathbb{B}$	
morning set	14494 May 12 17:18	23° $\mathbb{B}$ 48'30		morning set	14495 Apr 24 12:48	5° $\mathbb{B}$ 47'59	
	14494 May 16 13:13	0° $\mathbb{I}$		desc. node	14495 Apr 26 05:12	8° $\mathbb{B}$ 39'07	
superior conj	14494 May 27 13:44	17° $\mathbb{I}$ 31'53	-1°54'11	superior conj	14495 May 07 13:49	27° $\mathbb{B}$ 29'28	-1°21'29
minimum elong	14494 May 27 05:09	16° $\mathbb{I}$ 58'12	1°54'32	minimum elong	14495 May 07 05:56	26° $\mathbb{B}$ 57'32	1°21'20
max. Earth dist.	14494 May 30 03:06	21° $\mathbb{I}$ 32'18	1.45810 AU		14495 May 09 03:09	0° $\mathbb{I}$	
	14494 Jun 04 13:31	0° $\mathbb{S}$		max. Earth dist.	14495 May 12 22:31	6° $\mathbb{I}$ 04'16	1.45061 AU
evening rise	14494 Jun 12 16:22	12° $\mathbb{S}$ 34'00		evening rise	14495 May 23 03:48	21° $\mathbb{I}$ 57'39	
	14494 Jun 24 01:39	0° $\Omega$			14495 May 28 10:46	0° $\mathbb{S}$	
greatest brilliancy	14494 Jun 25 03:15	1° $\Omega$ 35'42	-0.7m		14495 Jun 19 02:00	0° $\Omega$	
asc. node	14494 Jul 03 10:13	13° $\Omega$ 10'49		evening max el	14495 Jun 20 03:22	1° $\Omega$ 05'50	20°18'50
evening max el	14494 Jul 07 00:16	17° $\Omega$ 14'46	19°20'21	asc. node	14495 Jun 20 07:06	1° $\Omega$ 15'09	
retrograde	14494 Jul 14 01:30	21° $\Omega$ 10'14		retrograde	14495 Jun 28 00:20	5° $\Omega$ 35'59	
evening set	14494 Jul 17 16:12	19° $\Omega$ 54'28		evening set	14495 Jul 02 01:10	4° $\Omega$ 02'49	
inferior conj	14494 Jul 23 01:53	14° $\Omega$ 03'17	3°00'57		14495 Jul 05 19:38	30° $\mathbb{R}$ $\mathbb{S}$	
minimum elong	14494 Jul 23 03:11	13° $\Omega$ 59'00	2°59'58	inferior conj	14495 Jul 07 07:36	27° $\mathbb{S}$ 59'10	3°10'23

minimum elong	14495 Jul 07 07:55	27°☿58'05	3°09'24	minimum elong	14496 Jun 20 15:41	12°☿07'06	3°07'08
min. Earth dist.	14495 Jul 08 02:34	26°☿54'21	0.68259 AU	min. Earth dist.	14496 Jun 20 21:49	11°☿45'43	0.68871 AU
morning rise	14495 Jul 12 14:21	21°☿36'57		morning rise	14496 Jun 25 20:39	5°☿47'57	
direct	14495 Jul 18 03:19	19°☿10'58		direct	14496 Jun 30 21:10	3°☿37'58	
desc. node	14495 Jul 23 04:40	20°☿47'47		desc. node	14496 Jul 09 01:57	7°☿49'24	
morning max el	14495 Jul 29 10:28	25°☿56'39	24°17'06	morning max el	14496 Jul 10 21:56	9°☿34'10	22°47'38
	14495 Aug 02 03:42	0°♊			14496 Jul 26 23:54	0°♊	
	14495 Aug 23 15:48	0°♊		morning set	14496 Aug 13 22:28	27°♊34'06	
morning set	14495 Sep 02 22:12	16°♊54'31			14496 Aug 15 09:49	0°♊	
max. Earth dist.	14495 Sep 06 13:37	23°♊19'12	1.38026 AU	max. Earth dist.	14496 Aug 18 12:57	5°♊15'51	1.40397 AU
	14495 Sep 10 05:30	0°♋					
				superior conj	14496 Aug 26 08:56	19°♊02'21	-0°58'47
superior conj	14495 Sep 13 19:18	6°♋44'53	-0°23'11	minimum elong	14496 Aug 26 13:25	19°♊22'45	0°58'23
minimum elong	14495 Sep 13 20:53	6°♋52'30	0°22'52		14496 Sep 01 06:53	0°♋	
asc. node	14495 Sep 16 08:33	11°♋41'26		asc. node	14496 Sep 02 05:04	1°♋44'45	
evening rise	14495 Sep 22 12:03	23°♋51'09		evening rise	14496 Sep 05 05:29	7°♋28'24	
	14495 Sep 25 15:10	0°♌			14496 Sep 18 10:01	0°♌	
evening max el	14495 Oct 09 01:05	20°♌57'34	19°08'35	evening max el	14496 Sep 21 04:15	3°♌10'50	18°26'47
retrograde	14495 Oct 18 02:43	25°♌30'44		retrograde	14496 Sep 28 22:20	7°♌06'32	
desc. node	14495 Oct 19 00:52	25°♌28'04		evening set	14496 Sep 30 22:20	6°♌51'35	
evening set	14495 Oct 19 23:32	25°♌19'57		desc. node	14496 Oct 04 22:19	5°♌02'53	
inferior conj	14495 Oct 28 10:45	21°♌07'08	-2°57'40	inferior conj	14496 Oct 08 16:24	2°♌18'13	-1°11'46
minimum elong	14495 Oct 28 03:18	21°♌19'46	2°54'08	minimum elong	14496 Oct 08 13:36	2°♌23'45	1°10'11
min. Earth dist.	14495 Oct 31 04:44	19°♌15'44	0.56058 AU		14496 Oct 11 14:15	30°♌	
morning rise	14495 Nov 05 04:27	16°♌29'54		min. Earth dist.	14496 Oct 11 22:12	29°♋44'51	0.57939 AU
direct	14495 Nov 10 17:57	15°♌18'25		morning rise	14496 Oct 16 01:23	27°♋03'18	
morning max el	14495 Nov 24 20:06	22°♌28'26	25°47'25	direct	14496 Oct 22 05:53	25°♋24'59	
	14495 Dec 01 12:26	0°♌			14496 Nov 02 03:40	0°♌	
asc. node	14495 Dec 13 09:40	18°♌30'17		morning max el	14496 Nov 05 13:08	2°♌59'14	27°07'17
	14495 Dec 19 07:53	0°♍			14496 Nov 25 01:36	0°♌	
morning set	14495 Dec 22 11:20	6°♍37'10		asc. node	14496 Nov 29 06:38	7°♌44'26	
				morning set	14496 Dec 05 20:25	21°♌05'53	
					14496 Dec 09 22:17	0°♍	
superior conj	14495 Dec 29 05:25	21°♍30'06	1°37'58				
minimum elong	14495 Dec 29 05:30	21°♍30'32	1°38'59	superior conj	14496 Dec 12 16:52	6°♍11'31	1°35'29
max. Earth dist.	14495 Dec 30 11:57	24°♍19'13	1.31654 AU	minimum elong	14496 Dec 12 15:55	6°♍06'13	1°36'29
	14496 Jan 02 02:13	0°♎		max. Earth dist.	14496 Dec 12 19:41	6°♍27'17	1.31162 AU
evening rise	14496 Jan 05 07:37	6°♎51'44		evening rise	14496 Dec 19 12:09	21°♍10'00	
desc. node	14496 Jan 14 23:35	25°♎31'30			14496 Dec 23 18:44	0°♎	
	14496 Jan 17 13:44	0°♏		desc. node	14496 Dec 31 20:23	14°♎53'20	
evening max el	14496 Feb 06 16:07	26°♏58'01	27°30'53		14497 Jan 10 22:08	0°♏	
	14496 Feb 10 04:23	0°♐		evening max el	14497 Jan 18 19:59	8°♏57'22	26°57'12
retrograde	14496 Feb 20 14:24	4°♐20'22		retrograde	14497 Feb 01 19:40	16°♏10'45	
evening set	14496 Feb 27 11:20	2°♐06'38		evening set	14497 Feb 08 11:34	14°♏17'25	
	14496 Mar 01 07:03	30°♏		min. Earth dist.	14497 Feb 12 10:07	11°♏37'33	0.59607 AU
min. Earth dist.	14496 Mar 02 05:40	29°♏11'07	0.61818 AU	inferior conj	14497 Feb 15 14:59	9°♏03'10	-3°02'07
inferior conj	14496 Mar 05 06:48	26°♏22'53	-1°37'22	minimum elong	14497 Feb 15 21:42	8°♏49'38	2°59'09
minimum elong	14496 Mar 05 10:13	26°♏15'00	1°35'48	morning rise	14497 Feb 23 11:08	4°♏21'50	
asc. node	14496 Mar 10 06:58	22°♏22'24		direct	14497 Feb 25 11:41	4°♏06'27	
morning rise	14496 Mar 12 12:03	21°♏21'05		asc. node	14497 Feb 25 04:26	4°♏06'48	
direct	14496 Mar 14 16:50	20°♏59'44		morning max el	14497 Mar 05 01:37	7°♏52'32	18°08'15
morning max el	14496 Mar 21 12:08	24°♏25'52	17°48'48		14497 Mar 19 06:56	0°♐	
	14496 Mar 26 01:22	0°♐		morning set	14497 Mar 20 16:14	2°♐35'16	
morning set	14496 Apr 06 06:26	18°♐49'28		desc. node	14497 Mar 29 22:19	19°♐39'36	
desc. node	14496 Apr 12 01:46	29°♐06'27					
	14496 Apr 12 14:01	0°♑		superior conj	14497 Mar 30 11:27	20°♐38'28	-0°04'27
				minimum elong	14497 Mar 30 11:05	20°♐36'48	0°04'39
superior conj	14496 Apr 17 12:59	8°♑31'49	-0°42'34	behind sun begin	14497 Mar 30 03:43	20°♐03'48	
minimum elong	14496 Apr 17 08:58	8°♑14'49	0°42'30	behind sun end	14497 Mar 30 18:27	21°♐09'43	
max. Earth dist.	14496 Apr 24 14:53	20°♑15'22	1.43652 AU		14497 Apr 04 19:53	0°♑	
	14496 Apr 30 17:50	0°♒		max. Earth dist.	14497 Apr 07 02:17	3°♑50'28	1.41737 AU
evening rise	14496 May 01 19:09	1°♒38'46		evening rise	14497 Apr 12 03:01	12°♑07'05	
	14496 May 20 23:20	0°♒			14497 Apr 23 16:35	0°♒	
evening max el	14496 Jun 02 00:31	14°♒56'44	21°29'43	evening max el	14497 May 15 17:02	28°♒48'20	22°48'40
asc. node	14496 Jun 06 04:06	18°♒27'16			14497 May 16 22:45	0°♒	
retrograde	14496 Jun 10 22:57	20°♒09'27		asc. node	14497 May 24 01:13	4°♒31'31	
evening set	14496 Jun 15 10:31	18°♒19'31		retrograde	14497 May 25 19:47	4°♒45'35	
inferior conj	14496 Jun 20 16:20	12°♒04'49	3°08'13				

evening set	14497 May 30 18:37	2°☿40'26		min. Earth dist.	14498 May 19 14:52	11°♊39'04	0.68662 AU
	14497 Jun 02 07:25	30°♊♊		inferior conj	14498 May 20 11:01	10°♊30'49	2°32'18
inferior conj	14497 Jun 05 02:07	26°♊16'57	2°55'24	minimum elong	14498 May 20 09:00	10°♊37'38	2°30'55
minimum elong	14497 Jun 05 00:39	26°♊22'03	2°54'10	morning rise	14498 May 25 18:12	4°♊29'01	
min. Earth dist.	14497 Jun 04 18:39	26°♊42'54	0.69003 AU	direct	14498 May 29 17:56	2°♊58'26	
morning rise	14497 Jun 10 06:34	20°♊06'56		morning max el	14498 Jun 06 10:43	7°♊17'58	20°07'36
direct	14497 Jun 14 18:27	18°♊16'05		desc. node	14498 Jun 12 20:11	14°♊48'31	
morning max el	14497 Jun 23 13:09	23°♊20'57	21°22'22		14498 Jun 23 13:23	0°☿	
desc. node	14497 Jun 25 23:06	25°♊55'35		morning set	14498 Jul 04 03:39	16°☿01'31	
	14497 Jun 29 08:36	0°☿			14498 Jul 13 02:29	0°♊	
	14497 Jul 20 07:26	0°♊		max. Earth dist.	14498 Jul 14 03:53	1°♊40'58	1.44346 AU
morning set	14497 Jul 24 22:16	7°♊10'51					
max. Earth dist.	14497 Jul 31 17:06	18°♊03'54	1.42588 AU	superior conj	14498 Jul 19 20:37	10°♊51'57	-2°00'29
	14497 Aug 07 20:13	0°♊		minimum elong	14498 Jul 20 03:26	11°♊19'49	2°00'52
					14498 Jul 31 06:45	0°♊	
superior conj	14497 Aug 08 02:28	0°♊26'47	-1°33'09	evening rise	14498 Aug 01 21:57	2°♊48'09	
minimum elong	14497 Aug 08 09:30	0°♊57'01	1°32'56	asc. node	14498 Aug 06 22:15	11°♊23'29	
evening rise	14497 Aug 19 10:27	20°♊31'38		evening max el	14498 Aug 19 05:15	29°♊19'03	18°03'40
asc. node	14497 Aug 20 01:37	21°♊40'15			14498 Aug 19 22:38	0°♊	
	14497 Aug 24 17:15	0°♊		retrograde	14498 Aug 25 15:23	2°♊39'39	
evening max el	14497 Sep 04 14:58	16°♊01'20	18°05'36	evening set	14498 Aug 28 06:49	2°♊04'24	
retrograde	14497 Sep 11 11:51	19°♊32'29			14498 Aug 31 10:20	30°♊♊	
evening set	14497 Sep 13 18:57	19°♊09'11		inferior conj	14498 Sep 03 15:40	26°♊51'59	1°28'45
inferior conj	14497 Sep 20 19:10	14°♊15'23	0°19'03	minimum elong	14498 Sep 03 17:52	26°♊46'14	1°27'52
minimum elong	14497 Sep 20 19:47	14°♊13'57	0°18'59	min. Earth dist.	14498 Sep 06 12:06	23°♊53'40	0.62452 AU
desc. node	14497 Sep 21 19:48	13°♊18'18		desc. node	14498 Sep 08 17:19	21°♊49'22	
min. Earth dist.	14497 Sep 24 00:23	11°♊18'44	0.60170 AU	morning rise	14498 Sep 10 02:34	20°♊43'49	
morning rise	14497 Sep 27 17:24	8°♊28'47		direct	14498 Sep 16 18:57	18°♊18'54	
direct	14497 Oct 04 07:03	6°♊24'12		morning max el	14498 Sep 30 20:44	26°♊18'43	27°56'12
morning max el	14497 Oct 18 13:55	14°♊15'46	27°51'17		14498 Oct 04 07:27	0°♊	
	14497 Oct 31 06:27	0°♊			14498 Oct 24 20:51	0°♊	
asc. node	14497 Nov 16 03:29	27°♊20'30		asc. node	14498 Nov 03 00:16	17°♊12'04	
	14497 Nov 17 11:23	0°♊		morning set	14498 Nov 04 00:07	19°♊12'53	
morning set	14497 Nov 20 01:23	5°♊19'28			14498 Nov 09 03:02	0°♊	
max. Earth dist.	14497 Nov 26 03:14	18°♊30'43	1.31201 AU	max. Earth dist.	14498 Nov 09 06:58	0°♊21'17	1.31788 AU
superior conj	14497 Nov 27 04:04	20°♊48'56	1°27'08	superior conj	14498 Nov 11 13:10	5°♊17'08	1°12'55
minimum elong	14497 Nov 27 02:17	20°♊39'01	1°27'57	minimum elong	14498 Nov 11 10:55	5°♊04'45	1°13'29
	14497 Dec 01 07:03	0°♊		evening rise	14498 Nov 18 07:25	20°♊08'02	
evening rise	14497 Dec 03 20:43	5°♊36'58			14498 Nov 23 00:42	0°♊	
	14497 Dec 16 11:37	0°♊		desc. node	14498 Dec 05 14:17	21°♊29'46	
desc. node	14497 Dec 18 17:16	3°♊37'25			14498 Dec 12 17:52	0°♊	
evening max el	14497 Dec 31 15:56	20°♊04'17	25°49'44	evening max el	14498 Dec 13 04:20	0°♊25'23	24°16'38
retrograde	14498 Jan 14 14:13	27°♊06'28		retrograde	14498 Dec 26 19:44	7°♊12'40	
evening set	14498 Jan 20 16:12	25°♊40'16		evening set	14498 Dec 31 21:44	6°♊16'10	
min. Earth dist.	14498 Jan 25 04:52	23°♊02'15	0.57495 AU	min. Earth dist.	14499 Jan 06 15:57	3°♊22'48	0.55765 AU
inferior conj	14498 Jan 28 03:53	20°♊58'29	-4°26'58	inferior conj	14499 Jan 08 19:55	2°♊03'21	-5°34'16
minimum elong	14498 Jan 28 12:52	20°♊42'47	4°23'38	minimum elong	14499 Jan 09 03:00	1°♊52'29	5°32'14
morning rise	14498 Feb 05 12:27	16°♊38'51			14499 Jan 12 08:43	30°♊♊	
direct	14498 Feb 07 13:38	16°♊25'42		morning rise	14499 Jan 17 10:09	28°♊03'29	
asc. node	14498 Feb 12 01:54	17°♊33'32		direct	14499 Jan 19 20:17	27°♊48'07	
morning max el	14498 Feb 16 07:24	20°♊42'21	18°48'18		14499 Jan 26 16:20	0°♊	
	14498 Feb 23 08:45	0°♊		asc. node	14499 Jan 29 23:18	2°♊38'57	
morning set	14498 Mar 04 13:13	16°♊50'07		morning max el	14499 Jan 30 01:18	2°♊43'49	19°50'56
	14498 Mar 11 07:37	0°♊		morning set	14499 Feb 16 01:13	0°♊	
					14499 Feb 16 17:42	1°♊23'22	
superior conj	14498 Mar 13 05:17	3°♊37'07	0°28'59				
minimum elong	14498 Mar 13 07:06	3°♊45'44	0°28'43	superior conj	14499 Feb 24 13:59	17°♊15'38	0°55'58
desc. node	14498 Mar 16 18:49	10°♊14'15		minimum elong	14499 Feb 24 16:37	17°♊28'43	0°55'54
max. Earth dist.	14498 Mar 20 09:23	16°♊42'22	1.39531 AU	max. Earth dist.	14499 Mar 02 15:54	28°♊58'24	1.37276 AU
evening rise	14498 Mar 24 08:01	23°♊30'52			14499 Mar 03 05:10	0°♊	
	14498 Mar 28 05:45	0°♊		desc. node	14499 Mar 03 15:21	0°♊47'06	
	14498 Apr 17 12:41	0°♊		evening rise	14499 Mar 06 09:14	5°♊45'54	
evening max el	14498 Apr 28 07:07	12°♊41'30	24°09'53		14499 Mar 21 03:59	0°♊	
retrograde	14498 May 09 13:29	19°♊17'51		evening max el	14499 Apr 10 20:44	26°♊35'12	25°26'23
asc. node	14498 May 10 22:28	19°♊09'33			14499 Apr 14 17:05	0°♊	
evening set	14498 May 14 23:51	17°♊00'00		retrograde	14499 Apr 23 02:48	3°♊40'18	

asc. node	14499 Apr 27 19:47	2°II07'50		evening set	14500 Apr 12 19:04	15°814'01	
evening set	14499 Apr 29 00:35	1°II13'06		asc. node	14500 Apr 14 17:10	13°827'45	
	14499 Apr 30 07:52	30°R8		min. Earth dist.	14500 Apr 16 20:43	11°804'20	0.66627 AU
min. Earth dist.	14499 May 03 08:16	26°828'24	0.67864 AU	inferior conj	14500 Apr 18 18:14	8°847'16	1°13'47
inferior conj	14499 May 04 17:05	24°842'29	1°58'38	minimum elong	14500 Apr 18 16:32	8°852'25	1°12'36
minimum elong	14499 May 04 14:57	24°849'26	1°57'13	morning rise	14500 Apr 24 15:01	3°806'20	
morning rise	14499 May 10 05:43	18°850'16		direct	14500 Apr 27 16:46	2°813'28	
direct	14499 May 13 17:59	17°839'28		morning max el	14500 May 04 03:31	5°838'12	18°23'11
morning max el	14499 May 20 15:47	21°825'01	19°07'15	desc. node	14500 May 17 14:00	24°808'05	
	14499 May 27 17:11	0°II			14500 May 21 07:20	0°II	
desc. node	14499 May 30 17:09	4°II15'44		morning set	14500 May 24 08:48	4°II51'00	
greatest brilliancy	14499 Jun 02 15:15	8°II34'34	-0.7m				
morning set	14499 Jun 13 08:29	24°II56'24		superior conj	14500 Jun 09 01:20	29°II30'52	-2°06'49
	14499 Jun 16 15:04	0°☾		minimum elong	14500 Jun 08 19:13	29°II06'57	2°07'35
max. Earth dist.	14499 Jun 26 20:36	15°☾55'28	1.45489 AU		14500 Jun 09 08:48	0°☾	
				max. Earth dist.	14500 Jun 09 16:34	0°☾30'15	1.45906 AU
superior conj	14499 Jun 29 16:46	20°☾23'30	-2°13'29	evening rise	14500 Jun 24 23:13	24°☾23'00	
minimum elong	14499 Jun 29 18:14	20°☾29'16	2°14'29		14500 Jun 28 13:08	0°♌	
	14499 Jul 05 17:55	0°♌		greatest brilliancy	14500 Jul 04 13:39	9°♌22'42	-0.8m
evening rise	14499 Jul 14 10:57	14°♌06'05		asc. node	14500 Jul 11 15:40	19°♌49'59	
	14499 Jul 24 06:25	0°♍		evening max el	14500 Jul 17 06:51	26°♌39'31	18°53'32
asc. node	14499 Jul 24 18:55	0°♍48'49			14500 Jul 22 02:00	0°♍	
evening max el	14499 Aug 02 19:30	12°♍54'13	18°19'55	retrograde	14500 Jul 23 23:53	0°♍20'07	
retrograde	14499 Aug 09 04:38	16°♍18'07			14500 Jul 25 20:43	30°R♌	
evening set	14499 Aug 12 04:47	15°♍28'17		evening set	14500 Jul 27 09:07	29°♌14'02	
inferior conj	14499 Aug 18 01:50	9°♍59'15	2°18'00	inferior conj	14500 Aug 01 21:58	23°♌30'17	2°49'36
minimum elong	14499 Aug 18 04:13	9°♍52'17	2°16'55	minimum elong	14500 Aug 01 23:46	23°♌24'33	2°48'35
min. Earth dist.	14499 Aug 20 09:17	7°♍18'15	0.64555 AU	min. Earth dist.	14500 Aug 03 15:08	21°♌20'18	0.66326 AU
morning rise	14499 Aug 24 02:13	3°♍38'56		morning rise	14500 Aug 07 13:38	17°♌05'12	
desc. node	14499 Aug 26 14:51	2°♍00'34		direct	14500 Aug 13 19:25	14°♌26'28	
direct	14499 Aug 30 15:28	1°♍02'31		desc. node	14500 Aug 13 12:20	14°♌26'48	
morning max el	14499 Sep 13 07:02	8°♍59'51	27°25'22	morning max el	14500 Aug 26 18:27	22°♌08'19	26°26'01
	14499 Sep 29 16:42	0°♎			14500 Sep 02 15:58	0°♍	
	14499 Oct 17 05:19	0°♎			14500 Sep 22 22:37	0°♎	
morning set	14499 Oct 18 14:00	2°♎39'09		morning set	14500 Oct 01 15:56	15°♎31'34	
asc. node	14499 Oct 20 20:57	7°♎13'13		max. Earth dist.	14500 Oct 05 13:56	23°♎03'07	1.34591 AU
max. Earth dist.	14499 Oct 23 03:16	11°♎51'32	1.32929 AU	asc. node	14500 Oct 07 17:35	27°♎19'57	
					14500 Oct 09 01:12	0°♎	
superior conj	14499 Oct 26 18:01	19°♎29'28	0°52'52	superior conj	14500 Oct 10 16:11	3°♎20'04	0°27'10
minimum elong	14499 Oct 26 15:48	19°♎17'39	0°53'12	minimum elong	14500 Oct 10 14:45	3°♎12'38	0°27'23
	14499 Oct 31 14:45	0°♏		evening rise	14500 Oct 18 03:35	19°♎00'35	
evening rise	14499 Nov 02 18:20	4°♏37'26			14500 Oct 23 13:50	0°♏	
	14499 Nov 16 06:57	0°♏		evening max el	14500 Nov 06 07:48	20°♏38'38	20°58'45
desc. node	14499 Nov 22 11:25	8°♏10'38		desc. node	14500 Nov 09 08:38	23°♏16'04	
evening max el	14499 Nov 24 14:23	10°♏24'00	22°33'47	retrograde	14500 Nov 17 22:53	26°♏25'17	
retrograde	14499 Dec 07 12:20	16°♏48'03		evening set	14500 Nov 20 11:58	26°♏09'52	
evening set	14499 Dec 11 06:35	16°♏17'07		inferior conj	14500 Nov 29 09:13	22°♏16'49	-5°24'29
min. Earth dist.	14499 Dec 18 22:19	12°♏49'25	0.54696 AU	minimum elong	14500 Nov 29 00:33	22°♏29'07	5°21'49
inferior conj	14499 Dec 19 18:08	12°♏21'29	-5°59'17	min. Earth dist.	14500 Nov 30 04:00	21°♏50'05	0.54504 AU
minimum elong	14499 Dec 19 17:24	12°♏22'31	5°58'14	morning rise	14500 Dec 07 13:25	18°♏24'18	
morning rise	14499 Dec 28 05:27	8°♏33'53		direct	14500 Dec 11 17:28	17°♏47'03	
direct	14499 Dec 31 10:11	8°♏10'38		morning max el	14500 Dec 24 18:59	24°♏06'41	23°00'40
morning max el	14500 Jan 12 04:31	13°♏49'08	21°16'42		14500 Dec 30 01:39	0°♏	
asc. node	14500 Jan 16 20:38	19°♏06'35		asc. node	14501 Jan 03 17:52	6°♏38'56	
	14500 Jan 23 21:27	0°♐			14501 Jan 16 04:32	0°♐	
morning set	14500 Feb 01 02:47	16°♐06'01		morning set	14501 Jan 16 14:13	0°♐51'25	
	14500 Feb 07 17:39	0°♑					
superior conj	14500 Feb 08 09:30	1°♑22'19	1°16'08	superior conj	14501 Jan 23 12:35	15°♐48'01	1°29'37
minimum elong	14500 Feb 08 11:58	1°♑35'07	1°16'26	minimum elong	14501 Jan 23 14:18	15°♐57'16	1°30'17
max. Earth dist.	14500 Feb 13 02:10	10°♑53'26	1.35189 AU	max. Earth dist.	14501 Jan 26 19:16	22°♐44'39	1.33449 AU
evening rise	14500 Feb 17 03:23	18°♑42'26			14501 Jan 30 08:27	0°♑	
desc. node	14500 Feb 18 11:54	21°♑13'57		evening rise	14501 Jan 31 10:57	2°♑11'30	
	14500 Feb 23 09:37	0°♒		desc. node	14501 Feb 05 08:28	11°♑30'25	
	14500 Mar 15 07:31	0°♒			14501 Feb 16 07:31	0°♒	
evening max el	14500 Mar 24 10:30	10°♒23'27	26°30'51	evening max el	14501 Mar 06 23:54	23°♒56'33	27°15'54
retrograde	14500 Apr 06 10:54	17°♒46'01			14501 Mar 15 01:27	0°♒	

retrograde	14501 Mar 20 12:59	1°♄26'03		max. Earth dist.	14502 Jan 09 19:47	4°♄43'19	1.32163 AU
	14501 Mar 25 14:26	30°♄'00		evening rise	14502 Jan 15 04:46	16°♄05'32	
evening set	14501 Mar 27 05:13	28°♄55'13			14502 Jan 22 08:56	0°♄	
min. Earth dist.	14501 Mar 31 02:10	25°♄18'07	0.64995 AU	desc. node	14502 Jan 23 05:05	1°♄31'27	
asc. node	14501 Apr 01 14:36	23°♄38'15			14502 Feb 11 00:23	0°♄	
inferior conj	14501 Apr 02 11:57	22°♄38'56	0°16'54	evening max el	14502 Feb 17 11:34	7°♄03'31	27°34'31
minimum elong	14501 Apr 02 11:29	22°♄40'14	0°16'25	retrograde	14502 Mar 03 08:07	14°♄30'53	
morning rise	14501 Apr 08 19:35	17°♄11'13		evening set	14502 Mar 10 04:38	12°♄08'43	
direct	14501 Apr 11 11:53	16°♄33'26		min. Earth dist.	14502 Mar 13 22:59	8°♄59'41	0.63040 AU
morning max el	14501 Apr 17 19:42	19°♄50'01	17°56'01	inferior conj	14502 Mar 16 19:25	6°♄10'29	-0°52'17
	14501 Apr 25 14:28	0°♄		minimum elong	14502 Mar 16 21:08	6°♄06'13	0°51'35
desc. node	14501 May 04 10:45	14°♄18'10		asc. node	14502 Mar 19 12:03	3°♄38'16	
morning set	14501 May 05 12:56	16°♄06'18		morning rise	14502 Mar 23 16:17	0°♄58'24	
	14501 May 14 00:41	0°♄		direct	14502 Mar 26 00:35	0°♄32'12	
				morning max el	14502 Apr 01 13:28	3°♄52'02	17°46'13
superior conj	14501 May 19 15:29	8°♄59'26	-1°41'37	morning set	14502 Apr 17 18:39	28°♄34'41	
minimum elong	14501 May 19 06:32	8°♄23'55	1°41'41		14502 Apr 18 14:21	0°♄	
max. Earth dist.	14501 May 23 12:39	15°♄06'51	1.45572 AU	desc. node	14502 Apr 21 07:24	4°♄40'44	
	14501 Jun 02 02:42	0°♄					
evening rise	14501 Jun 04 15:50	3°♄54'56		superior conj	14502 Apr 30 01:01	19°♄24'12	-1°05'15
greatest brilliancy	14501 Jun 18 20:07	25°♄18'11	-0.6m	minimum elong	14502 Apr 29 18:38	18°♄57'53	1°05'06
	14501 Jun 22 02:47	0°♄		max. Earth dist.	14502 May 06 06:27	29°♄29'49	1.44535 AU
asc. node	14501 Jun 28 12:30	8°♄17'51			14502 May 06 14:01	0°♄	
evening max el	14501 Jun 30 13:10	10°♄28'45	19°43'29	evening rise	14502 May 15 02:58	13°♄21'06	
retrograde	14501 Jul 07 22:07	14°♄38'13			14502 May 26 04:25	0°♄	
evening set	14501 Jul 11 16:59	13°♄15'06		evening max el	14502 Jun 13 13:37	24°♄19'27	20°47'41
inferior conj	14501 Jul 17 00:54	7°♄18'15	3°06'27	asc. node	14502 Jun 15 09:26	26°♄01'34	
minimum elong	14501 Jul 17 01:48	7°♄15'15	3°05'30	retrograde	14502 Jun 21 21:04	29°♄07'21	
min. Earth dist.	14501 Jul 18 03:52	5°♄48'03	0.67682 AU	evening set	14502 Jun 26 02:17	27°♄27'10	
morning rise	14501 Jul 22 10:11	0°♄53'42		inferior conj	14502 Jul 01 08:10	21°♄18'39	3°10'47
	14501 Jul 23 12:50	30°♄'00		minimum elong	14502 Jul 01 08:04	21°♄19'01	3°09'47
direct	14501 Jul 28 05:44	28°♄20'59		min. Earth dist.	14502 Jul 01 21:25	20°♄32'51	0.68580 AU
desc. node	14501 Jul 31 09:47	28°♄59'07		morning rise	14502 Jul 06 13:33	14°♄58'13	
	14501 Aug 02 11:43	0°♄		direct	14502 Jul 11 21:19	12°♄38'16	
morning max el	14501 Aug 09 05:20	5°♄32'01	25°07'14	desc. node	14502 Jul 18 07:09	15°♄13'27	
	14501 Aug 28 03:13	0°♄		morning max el	14502 Jul 22 15:49	19°♄04'13	23°38'53
morning set	14501 Sep 14 02:00	27°♄40'22			14502 Jul 31 21:30	0°♄	
	14501 Sep 15 09:07	0°♄			14502 Aug 21 06:08	0°♄	
max. Earth dist.	14501 Sep 17 15:30	4°♄08'42	1.36684 AU	morning set	14502 Aug 26 15:44	8°♄54'51	
				max. Earth dist.	14502 Aug 30 13:11	15°♄36'46	1.39034 AU
superior conj	14501 Sep 24 04:42	16°♄41'18	-0°03'39				
minimum elong	14501 Sep 24 04:55	16°♄42'22	0°03'24	superior conj	14502 Sep 07 03:54	29°♄24'41	-0°38'11
behind sun begin	14501 Sep 23 22:34	16°♄11'05		minimum elong	14502 Sep 07 06:40	29°♄37'39	0°37'49
behind sun end	14501 Sep 24 11:15	17°♄13'43			14502 Sep 07 11:26	0°♄	
asc. node	14501 Sep 24 14:09	17°♄28'02		asc. node	14502 Sep 11 10:41	7°♄33'53	
	14501 Sep 30 19:16	0°♄		evening rise	14502 Sep 16 07:35	17°♄02'34	
evening rise	14501 Oct 02 08:54	3°♄11'13			14502 Sep 23 04:13	0°♄	
	14501 Oct 18 02:52	0°♄		evening max el	14502 Oct 02 12:07	13°♄25'03	18°48'18
evening max el	14501 Oct 19 15:08	1°♄37'15	19°42'34	retrograde	14502 Oct 10 23:05	17°♄40'29	
desc. node	14501 Oct 27 05:56	6°♄20'12		evening set	14502 Oct 12 20:32	17°♄28'28	
retrograde	14501 Oct 29 15:03	6°♄36'42		desc. node	14502 Oct 14 03:21	17°♄07'24	
evening set	14501 Oct 31 13:28	6°♄26'20		inferior conj	14502 Oct 21 00:55	13°♄07'34	-2°11'47
inferior conj	14501 Nov 09 07:54	2°♄23'50	-3°58'43	minimum elong	14502 Oct 20 19:27	13°♄17'26	2°08'59
minimum elong	14501 Nov 08 22:19	2°♄38'47	3°54'44	min. Earth dist.	14502 Oct 24 01:55	10°♄56'12	0.56790 AU
min. Earth dist.	14501 Nov 11 12:28	1°♄01'43	0.55244 AU	morning rise	14502 Oct 28 15:11	8°♄14'13	
	14501 Nov 13 06:05	30°♄'00		direct	14502 Nov 03 11:58	6°♄51'11	
morning rise	14501 Nov 17 05:28	28°♄06'24		morning max el	14502 Nov 17 16:50	14°♄12'41	26°25'13
direct	14501 Nov 22 07:50	27°♄08'46			14502 Nov 30 06:28	0°♄	
	14501 Dec 01 01:58	0°♄		asc. node	14502 Dec 08 12:02	13°♄58'28	
morning max el	14501 Dec 06 04:19	4°♄03'26	24°49'41		14502 Dec 16 10:57	0°♄	
asc. node	14501 Dec 21 15:00	25°♄00'40		morning set	14502 Dec 16 12:43	0°♄09'25	
	14501 Dec 24 09:20	0°♄					
morning set	14502 Jan 01 02:07	15°♄34'29		superior conj	14502 Dec 23 07:21	15°♄06'40	1°37'39
				minimum elong	14502 Dec 23 06:58	15°♄04'35	1°38'40
superior conj	14502 Jan 07 20:36	0°♄25'16	1°36'41	max. Earth dist.	14502 Dec 24 01:47	16°♄39'22	1.31377 AU
minimum elong	14502 Jan 07 21:19	0°♄29'09	1°37'37	evening rise	14502 Dec 30 06:03	0°♄16'42	
	14502 Jan 07 16:01	0°♄			14502 Dec 30 02:53	0°♄	



desc. node	14503 Jan 10 01:47	21° $\approx$ 09'51		desc. node	14503 Dec 27 22:37	10° $\approx$ 16'55	
	14503 Jan 15 10:23	0° $\text{H}$			14504 Jan 11 15:54	0° $\text{H}$	
evening max el	14503 Jan 30 19:17	19° $\text{H}$ 31'22	27°20'56	evening max el	14504 Jan 12 20:14	1° $\text{H}$ 09'14	26°32'24
retrograde	14503 Feb 13 18:50	26° $\text{H}$ 50'10		retrograde	14504 Jan 26 19:24	8° $\text{H}$ 17'04	
evening set	14503 Feb 20 14:19	24° $\text{H}$ 44'32		evening set	14504 Feb 02 06:40	6° $\text{H}$ 34'50	
min. Earth dist.	14503 Feb 24 09:43	21° $\text{H}$ 56'42	0.60882 AU	min. Earth dist.	14504 Feb 06 09:52	3° $\text{H}$ 57'40	0.58690 AU
inferior conj	14503 Feb 27 13:10	19° $\text{H}$ 12'23	-2°12'34	inferior conj	14504 Feb 09 13:33	1° $\text{H}$ 34'39	-3°38'51
minimum elong	14503 Feb 27 17:58	19° $\text{H}$ 01'53	2°10'21	minimum elong	14504 Feb 09 21:30	1° $\text{H}$ 19'34	3°35'32
asc. node	14503 Mar 06 09:33	14° $\text{H}$ 31'08			14504 Feb 11 16:55	30° $\text{R}\approx$	
morning rise	14503 Mar 07 00:48	14° $\text{H}$ 18'40		morning rise	14504 Feb 17 15:29	27° $\approx$ 02'10	
direct	14503 Mar 09 03:17	14° $\text{H}$ 00'21		direct	14504 Feb 19 15:41	26° $\approx$ 48'05	
morning max el	14503 Mar 16 05:30	17° $\text{H}$ 34'00	17°54'34	asc. node	14504 Feb 21 07:02	26° $\approx$ 57'52	
	14503 Mar 25 02:38	0° $\text{Y}$			14504 Feb 26 20:30	0° $\text{H}$	
morning set	14503 Mar 31 19:52	11° $\text{Y}$ 57'08		morning max el	14504 Feb 27 16:09	0° $\text{H}$ 45'47	18°22'33
desc. node	14503 Apr 08 03:56	25° $\text{Y}$ 10'44		morning set	14504 Mar 14 10:58	25° $\text{H}$ 56'51	
	14503 Apr 10 21:50	0° $\text{Z}$			14504 Mar 16 13:58	0° $\text{Y}$	
superior conj	14503 Apr 11 10:23	0° $\text{Z}$ 54'26	-0°25'59	superior conj	14504 Mar 23 17:37	13° $\text{Y}$ 24'22	0°10'28
minimum elong	14503 Apr 11 08:03	0° $\text{Z}$ 44'21	0°26'04	minimum elong	14504 Mar 23 18:22	13° $\text{Y}$ 27'47	0°10'12
max. Earth dist.	14503 Apr 18 20:37	13° $\text{Z}$ 26'10	1.42896 AU	behind sun begin	14504 Mar 23 12:44	13° $\text{Y}$ 01'59	
evening rise	14503 Apr 25 00:20	23° $\text{Z}$ 20'14		behind sun end	14504 Mar 24 00:00	13° $\text{Y}$ 53'33	
	14503 Apr 29 07:08	0° $\text{II}$		desc. node	14504 Mar 25 00:27	15° $\text{Y}$ 44'36	
	14503 May 20 07:00	0° $\text{E}$		max. Earth dist.	14504 Mar 31 06:31	26° $\text{Y}$ 45'05	1.40830 AU
evening max el	14503 May 27 08:44	8° $\text{E}$ 11'03	22°02'41		14504 Apr 02 04:29	0° $\text{Z}$	
asc. node	14503 Jun 02 06:30	12° $\text{E}$ 47'00		evening rise	14504 Apr 04 17:03	4° $\text{Z}$ 11'52	
retrograde	14503 Jun 05 19:00	13° $\text{E}$ 42'27			14504 Apr 21 12:34	0° $\text{II}$	
evening set	14503 Jun 10 11:19	11° $\text{E}$ 45'58		evening max el	14504 May 09 00:02	22° $\text{II}$ 03'21	23°23'20
inferior conj	14503 Jun 15 17:37	5° $\text{E}$ 27'29	3°04'02	asc. node	14504 May 19 03:41	28° $\text{II}$ 16'37	
minimum elong	14503 Jun 15 16:35	5° $\text{E}$ 31'04	3°02'53	retrograde	14504 May 19 14:32	28° $\text{II}$ 17'32	
min. Earth dist.	14503 Jun 15 17:37	5° $\text{E}$ 27'29	0.68992 AU	evening set	14504 May 24 18:24	26° $\text{II}$ 06'28	
	14503 Jun 20 01:40	30° $\text{R}\text{II}$		min. Earth dist.	14504 May 29 14:20	20° $\text{II}$ 24'48	0.68922 AU
morning rise	14503 Jun 20 21:40	29° $\text{II}$ 13'22		inferior conj	14504 May 30 03:15	19° $\text{II}$ 40'19	2°46'52
direct	14503 Jun 25 16:55	27° $\text{II}$ 11'01		minimum elong	14504 May 30 01:30	19° $\text{II}$ 46'19	2°45'33
	14503 Jul 02 03:20	0° $\text{E}$		morning rise	14504 Jun 04 08:34	13° $\text{II}$ 33'55	
morning max el	14503 Jul 05 04:21	2° $\text{E}$ 44'42	22°10'20	direct	14504 Jun 08 15:16	11° $\text{II}$ 51'39	
desc. node	14503 Jul 05 04:24	2° $\text{E}$ 44'51		morning max el	14504 Jun 16 22:03	16° $\text{II}$ 35'30	20°48'58
	14503 Jul 25 20:50	0° $\text{O}$		desc. node	14504 Jun 21 01:32	21° $\text{II}$ 12'25	
morning set	14503 Aug 07 05:29	19° $\text{O}$ 07'01			14504 Jun 27 18:06	0° $\text{E}$	
max. Earth dist.	14503 Aug 12 14:16	27° $\text{O}$ 55'08	1.41370 AU	morning set	14504 Jul 16 20:00	28° $\text{E}$ 19'49	
	14503 Aug 13 20:00	0° $\text{P}$			14504 Jul 17 21:43	0° $\text{O}$	
superior conj	14503 Aug 20 09:35	11° $\text{P}$ 21'10	-1°13'49	max. Earth dist.	14504 Jul 24 21:54	11° $\text{O}$ 07'30	1.43406 AU
minimum elong	14503 Aug 20 15:18	11° $\text{P}$ 46'31	1°13'26	superior conj	14504 Jul 31 17:22	22° $\text{O}$ 20'16	-1°46'02
asc. node	14503 Aug 29 07:13	27° $\text{P}$ 34'23		minimum elong	14504 Aug 01 00:51	22° $\text{O}$ 51'39	1°46'01
evening rise	14503 Aug 30 20:16	0° $\text{E}$ 26'40			14504 Aug 05 05:33	0° $\text{P}$	
	14503 Aug 30 14:32	0° $\text{E}$		evening rise	14504 Aug 12 18:27	13° $\text{P}$ 11'32	
evening max el	14503 Sep 15 19:06	25° $\text{E}$ 55'39	18°15'23	asc. node	14504 Aug 15 03:48	17° $\text{P}$ 25'02	
retrograde	14503 Sep 23 02:36	29° $\text{E}$ 38'55			14504 Aug 22 13:27	0° $\text{E}$	
evening set	14503 Sep 25 05:33	29° $\text{E}$ 20'44		evening max el	14504 Aug 29 07:46	8° $\text{E}$ 58'15	18°02'26
desc. node	14503 Oct 01 00:51	25° $\text{E}$ 58'58		retrograde	14504 Sep 04 22:50	12° $\text{E}$ 23'23	
inferior conj	14503 Oct 02 15:49	24° $\text{E}$ 38'24	-0°30'48	evening set	14504 Sep 07 09:25	11° $\text{E}$ 55'21	
minimum elong	14503 Oct 02 14:42	24° $\text{E}$ 40'45	0°30'01	inferior conj	14504 Sep 14 02:38	6° $\text{E}$ 52'58	0°51'18
min. Earth dist.	14503 Oct 05 22:39	21° $\text{E}$ 52'46	0.58864 AU	minimum elong	14504 Sep 14 04:08	6° $\text{E}$ 49'19	0°50'45
morning rise	14503 Oct 09 20:27	19° $\text{E}$ 09'18		desc. node	14504 Sep 16 22:23	4° $\text{E}$ 08'02	
direct	14503 Oct 16 05:47	17° $\text{E}$ 19'29		min. Earth dist.	14504 Sep 17 04:40	3° $\text{E}$ 53'20	0.61150 AU
morning max el	14503 Oct 30 13:04	25° $\text{E}$ 01'09	27°30'51	morning rise	14504 Sep 20 20:00	0° $\text{E}$ 55'52	
	14503 Nov 04 03:33	0° $\text{M}$			14504 Sep 22 09:43	30° $\text{R}\text{P}$	
	14503 Nov 23 14:39	0° $\text{Z}$		direct	14504 Sep 27 11:26	28° $\text{P}$ 42'04	
asc. node	14503 Nov 25 08:58	3° $\text{Z}$ 22'43			14504 Oct 02 20:11	0° $\text{E}$	
morning set	14503 Nov 30 20:17	14° $\text{Z}$ 31'58		morning max el	14504 Oct 11 16:51	6° $\text{E}$ 37'52	27°58'12
					14504 Oct 29 09:42	0° $\text{M}$	
superior conj	14503 Dec 07 18:55	29° $\text{Z}$ 46'43	1°32'39	asc. node	14504 Nov 11 05:47	23° $\text{M}$ 05'31	
minimum elong	14503 Dec 07 17:35	29° $\text{Z}$ 39'16	1°33'36	morning set	14504 Nov 13 22:51	28° $\text{M}$ 36'56	
max. Earth dist.	14503 Dec 07 10:01	28° $\text{Z}$ 56'59	1.31115 AU		14504 Nov 14 14:47	0° $\text{Z}$	
	14503 Dec 07 21:17	0° $\text{Z}$		max. Earth dist.	14504 Nov 19 16:33	10° $\text{Z}$ 55'59	1.31385 AU
evening rise	14503 Dec 14 12:34	14° $\text{Z}$ 39'18		superior conj	14504 Nov 21 05:26	14° $\text{Z}$ 19'55	1°21'48
	14503 Dec 22 02:46	0° $\approx$					

minimum elong	14504 Nov 21 03:24	14° $\text{♊}$ 08'38	1°22'32	minimum elong	14505 Nov 05 10:40	28° $\text{♋}$ 28'55	1°05'34
evening rise	14504 Nov 27 22:15	29° $\text{♊}$ 07'51			14505 Nov 06 03:23	0° $\text{♊}$	
	14504 Nov 28 07:55	0° $\text{♋}$		evening rise	14505 Nov 12 09:15	13° $\text{♊}$ 38'04	
desc. node	14504 Dec 13 19:35	28° $\text{♋}$ 40'36			14505 Nov 20 11:37	0° $\text{♋}$	
	14504 Dec 14 17:02	0° $\text{♌}$		desc. node	14505 Nov 30 16:39	16° $\text{♋}$ 04'52	
evening max el	14504 Dec 24 12:32	11° $\text{♌}$ 53'44	25°12'26	evening max el	14505 Dec 05 22:38	21° $\text{♋}$ 59'41	23°32'55
retrograde	14505 Jan 07 08:24	18° $\text{♌}$ 50'16		retrograde	14505 Dec 19 08:35	28° $\text{♋}$ 39'31	
evening set	14505 Jan 13 01:45	17° $\text{♌}$ 36'22		evening set	14505 Dec 23 21:29	27° $\text{♋}$ 54'48	
min. Earth dist.	14505 Jan 18 00:40	14° $\text{♌}$ 54'25	0.56694 AU	min. Earth dist.	14505 Dec 30 09:18	24° $\text{♋}$ 48'56	0.55202 AU
inferior conj	14505 Jan 20 17:30	13° $\text{♌}$ 08'04	-4°59'02	inferior conj	14506 Jan 01 01:03	23° $\text{♋}$ 50'38	-5°51'37
minimum elong	14505 Jan 21 02:25	12° $\text{♌}$ 53'25	4°56'05	minimum elong	14506 Jan 01 05:25	23° $\text{♋}$ 44'14	5°50'14
morning rise	14505 Jan 29 05:35	8° $\text{♌}$ 57'41		morning rise	14506 Jan 09 15:01	19° $\text{♋}$ 57'39	
direct	14505 Jan 31 09:30	8° $\text{♌}$ 44'10		direct	14506 Jan 12 07:45	19° $\text{♋}$ 39'53	
asc. node	14505 Feb 07 04:27	11° $\text{♌}$ 07'43		morning max el	14506 Jan 23 05:15	24° $\text{♋}$ 53'53	20°24'53
morning max el	14505 Feb 09 17:21	13° $\text{♌}$ 16'03	19°12'12	asc. node	14506 Jan 25 01:50	26° $\text{♋}$ 49'52	
	14505 Feb 21 03:06	0° $\text{♍}$			14506 Jan 27 15:55	0° $\text{♌}$	
morning set	14505 Feb 26 11:34	10° $\text{♍}$ 20'53		morning set	14506 Feb 10 18:17	24° $\text{♌}$ 58'30	
					14506 Feb 13 04:42	0° $\text{♍}$	
superior conj	14505 Mar 06 18:22	26° $\text{♍}$ 41'58	0°41'14	superior conj	14506 Feb 18 08:07	10° $\text{♍}$ 33'36	1°05'20
minimum elong	14505 Mar 06 20:41	26° $\text{♍}$ 53'08	0°41'02	minimum elong	14506 Feb 18 10:47	10° $\text{♍}$ 47'04	1°05'25
	14505 Mar 08 11:46	0° $\text{♎}$		max. Earth dist.	14506 Feb 23 20:14	21° $\text{♍}$ 24'19	1.36343 AU
desc. node	14505 Mar 11 20:58	6° $\text{♎}$ 19'01		desc. node	14506 Feb 26 17:28	26° $\text{♍}$ 49'34	
max. Earth dist.	14505 Mar 13 13:07	9° $\text{♎}$ 21'33	1.38561 AU	evening rise	14506 Feb 27 15:47	28° $\text{♍}$ 31'58	
evening rise	14505 Mar 17 06:58	15° $\text{♎}$ 58'24			14506 Feb 28 11:10	0° $\text{♎}$	
	14505 Mar 25 18:15	0° $\text{♏}$			14506 Mar 19 01:33	0° $\text{♏}$	
	14505 Apr 16 03:11	0° $\text{♐}$		evening max el	14506 Apr 04 03:06	19° $\text{♏}$ 48'43	25°55'42
evening max el	14505 Apr 21 13:37	5° $\text{♐}$ 56'59	24°43'19	retrograde	14506 Apr 16 17:59	27° $\text{♏}$ 03'34	
retrograde	14505 May 03 06:33	12° $\text{♐}$ 47'11		evening set	14506 Apr 22 20:18	24° $\text{♏}$ 33'33	
asc. node	14505 May 06 00:58	12° $\text{♐}$ 14'07		asc. node	14506 Apr 22 22:19	24° $\text{♏}$ 29'18	
evening set	14505 May 08 21:58	10° $\text{♐}$ 24'33		min. Earth dist.	14506 Apr 27 01:10	20° $\text{♏}$ 03'54	0.67386 AU
min. Earth dist.	14505 May 13 09:34	5° $\text{♐}$ 19'22	0.68380 AU	inferior conj	14506 Apr 28 15:27	18° $\text{♏}$ 03'32	1°41'04
inferior conj	14505 May 14 11:12	3° $\text{♐}$ 54'05	2°19'22	minimum elong	14506 Apr 28 13:25	18° $\text{♏}$ 09'59	1°39'42
minimum elong	14505 May 14 09:05	4° $\text{♐}$ 01'10	2°17'56	morning rise	14506 May 04 07:13	12° $\text{♏}$ 15'53	
	14505 May 17 14:28	30° $\text{♑}$		direct	14506 May 07 14:47	11° $\text{♏}$ 13'09	
morning rise	14505 May 19 20:25	27° $\text{♑}$ 56'25		morning max el	14506 May 14 07:05	14° $\text{♏}$ 48'40	18°46'25
direct	14505 May 23 15:06	26° $\text{♑}$ 34'36		desc. node	14506 May 25 19:27	0° $\text{♐}$ 00'14	
	14505 May 30 06:58	0° $\text{♐}$			14506 May 25 19:23	0° $\text{♐}$	
morning max el	14505 May 30 22:58	0° $\text{♐}$ 38'04	19°40'02	greatest brilliancy	14506 May 28 09:25	3° $\text{♐}$ 55'32	-0.8m
desc. node	14505 Jun 07 22:34	10° $\text{♐}$ 21'27		morning set	14506 Jun 05 09:42	16° $\text{♐}$ 20'10	
greatest brilliancy	14505 Jun 12 16:38	17° $\text{♐}$ 07'37	-0.6m		14506 Jun 14 04:15	0° $\text{♑}$	
	14505 Jun 21 07:10	0° $\text{♑}$		max. Earth dist.	14506 Jun 20 05:22	9° $\text{♑}$ 25'44	1.45759 AU
morning set	14505 Jun 25 22:34	7° $\text{♑}$ 05'32					
max. Earth dist.	14505 Jul 07 11:32	25° $\text{♑}$ 02'45	1.44917 AU	superior conj	14506 Jun 21 14:59	11° $\text{♑}$ 37'07	-2°13'10
	14505 Jul 10 14:25	0° $\text{♒}$		minimum elong	14506 Jun 21 13:03	11° $\text{♑}$ 29'34	2°14'11
superior conj	14505 Jul 12 01:32	2° $\text{♒}$ 20'29	-2°08'10		14506 Jul 03 06:27	0° $\text{♒}$	
minimum elong	14505 Jul 12 06:44	2° $\text{♒}$ 41'21	2°08'52	evening rise	14506 Jul 06 23:25	5° $\text{♒}$ 55'47	
evening rise	14505 Jul 25 21:01	25° $\text{♒}$ 04'43		asc. node	14506 Jul 19 21:10	26° $\text{♒}$ 17'25	
	14505 Jul 28 19:15	0° $\text{♓}$			14506 Jul 22 11:09	0° $\text{♓}$	
asc. node	14505 Aug 02 00:28	7° $\text{♓}$ 01'26		evening max el	14506 Jul 27 11:40	6° $\text{♓}$ 04'06	18°32'09
evening max el	14505 Aug 12 22:22	22° $\text{♓}$ 23'55	18°08'19	retrograde	14506 Aug 02 23:15	9° $\text{♓}$ 33'34	
retrograde	14505 Aug 19 07:07	25° $\text{♓}$ 44'38		evening set	14506 Aug 06 03:08	8° $\text{♓}$ 37'09	
evening set	14505 Aug 22 02:06	25° $\text{♓}$ 03'35		inferior conj	14506 Aug 11 20:18	3° $\text{♓}$ 01'55	2°33'20
inferior conj	14505 Aug 28 05:29	19° $\text{♓}$ 43'46	1°51'59	minimum elong	14506 Aug 11 22:30	2° $\text{♓}$ 55'13	2°32'17
minimum elong	14505 Aug 28 07:53	19° $\text{♓}$ 37'09	1°50'58	min. Earth dist.	14506 Aug 13 21:51	0° $\text{♓}$ 32'22	0.65358 AU
min. Earth dist.	14505 Aug 30 20:41	16° $\text{♓}$ 50'36	0.63379 AU		14506 Aug 14 08:57	30° $\text{♓}$	
morning rise	14505 Sep 03 11:42	13° $\text{♓}$ 28'59		morning rise	14506 Aug 17 16:43	26° $\text{♓}$ 38'40	
desc. node	14505 Sep 03 19:55	13° $\text{♓}$ 13'44		desc. node	14506 Aug 21 17:26	24° $\text{♓}$ 21'11	
direct	14505 Sep 10 03:12	10° $\text{♓}$ 58'01		direct	14506 Aug 24 03:18	23° $\text{♓}$ 59'48	
morning max el	14505 Sep 24 01:43	18° $\text{♓}$ 59'00	27°47'03		14506 Sep 04 13:50	0° $\text{♔}$	
	14505 Oct 03 10:08	0° $\text{♔}$		morning max el	14506 Sep 06 12:42	1° $\text{♓}$ 53'00	27°02'58
	14505 Oct 22 08:19	0° $\text{♕}$			14506 Sep 27 14:21	0° $\text{♔}$	
morning set	14505 Oct 28 18:10	12° $\text{♕}$ 19'22		morning set	14506 Oct 12 03:25	25° $\text{♔}$ 32'28	
asc. node	14505 Oct 29 02:31	13° $\text{♕}$ 01'25			14506 Oct 14 10:06	0° $\text{♕}$	
max. Earth dist.	14505 Nov 02 17:31	22° $\text{♕}$ 37'56	1.32203 AU	asc. node	14506 Oct 15 23:10	3° $\text{♕}$ 05'32	
				max. Earth dist.	14506 Oct 16 09:34	3° $\text{♕}$ 58'09	1.33569 AU
superior conj	14505 Nov 05 12:58	28° $\text{♕}$ 41'28	1°05'06				

superior conj	14506 Oct 20 15:19	12° $\mathbb{M}$ 45'38	0°42'38	asc. node	14507 Oct 02 19:44	23° $\mathbb{A}$ 13'06	
minimum elong	14506 Oct 20 13:21	12° $\mathbb{M}$ 35'11	0°42'54				
evening rise	14506 Oct 27 19:42	28° $\mathbb{M}$ 05'21		superior conj	14507 Oct 04 09:47	26° $\mathbb{A}$ 24'45	0°14'41
	14506 Oct 28 17:26	0° $\mathbb{A}$		minimum elong	14507 Oct 04 08:56	26° $\mathbb{A}$ 20'25	0°14'53
	14506 Nov 15 12:40	0° $\mathbb{B}$		behind sun begin	14507 Oct 04 06:34	26° $\mathbb{A}$ 08'26	
evening max el	14506 Nov 17 10:49	2° $\mathbb{B}$ 01'22	21°51'39	behind sun end	14507 Oct 04 11:18	26° $\mathbb{A}$ 32'26	
desc. node	14506 Nov 17 13:50	2° $\mathbb{B}$ 08'43			14507 Oct 06 03:57	0° $\mathbb{M}$	
retrograde	14506 Nov 29 21:30	8° $\mathbb{B}$ 11'02		evening rise	14507 Oct 12 03:32	12° $\mathbb{M}$ 23'44	
evening set	14506 Dec 03 01:50	7° $\mathbb{B}$ 48'23			14507 Oct 21 06:29	0° $\mathbb{A}$	
inferior conj	14506 Dec 11 18:39	3° $\mathbb{B}$ 55'48	-5°52'04	evening max el	14507 Oct 30 09:53	12° $\mathbb{A}$ 32'51	20°23'44
minimum elong	14506 Dec 11 13:59	4° $\mathbb{B}$ 02'21	5°50'36	desc. node	14507 Nov 04 11:07	16° $\mathbb{A}$ 25'37	
min. Earth dist.	14506 Dec 11 15:21	4° $\mathbb{B}$ 00'26	0.54493 AU	retrograde	14507 Nov 10 08:19	17° $\mathbb{A}$ 59'14	
morning rise	14506 Dec 20 02:57	0° $\mathbb{B}$ 08'13		evening set	14507 Nov 12 13:24	17° $\mathbb{A}$ 46'55	
	14506 Dec 20 16:44	30° $\mathbb{R}$ $\mathbb{A}$		inferior conj	14507 Nov 21 11:10	13° $\mathbb{A}$ 51'27	-4°52'43
direct	14506 Dec 23 17:25	29° $\mathbb{A}$ 39'40		minimum elong	14507 Nov 21 01:11	14° $\mathbb{A}$ 06'03	4°49'13
	14506 Dec 26 16:22	0° $\mathbb{B}$		min. Earth dist.	14507 Nov 22 21:41	13° $\mathbb{A}$ 00'57	0.54712 AU
morning max el	14507 Jan 05 02:28	5° $\mathbb{B}$ 37'03	21°59'15	morning rise	14507 Nov 29 12:30	9° $\mathbb{A}$ 50'47	
asc. node	14507 Jan 11 23:06	13° $\mathbb{B}$ 47'09		direct	14507 Dec 04 02:44	9° $\mathbb{A}$ 05'22	
	14507 Jan 21 10:34	0° $\mathbb{A}$		morning max el	14507 Dec 17 13:22	15° $\mathbb{A}$ 40'22	23°47'26
morning set	14507 Jan 26 04:35	9° $\mathbb{A}$ 42'43			14507 Dec 28 19:04	0° $\mathbb{B}$	
				asc. node	14507 Dec 29 20:17	1° $\mathbb{B}$ 41'55	
superior conj	14507 Feb 02 07:11	24° $\mathbb{A}$ 49'10	1°22'39	morning set	14508 Jan 10 16:25	24° $\mathbb{B}$ 27'16	
minimum elong	14507 Feb 02 09:24	25° $\mathbb{A}$ 00'46	1°23'06		14508 Jan 13 05:59	0° $\mathbb{A}$	
	14507 Feb 04 18:50	0° $\mathbb{H}$					
max. Earth dist.	14507 Feb 06 08:58	3° $\mathbb{H}$ 14'48	1.34396 AU	superior conj	14508 Jan 17 12:37	9° $\mathbb{A}$ 19'53	1°33'23
evening rise	14507 Feb 10 16:04	11° $\mathbb{H}$ 43'33		minimum elong	14508 Jan 17 13:56	9° $\mathbb{A}$ 27'01	1°34'10
desc. node	14507 Feb 13 14:01	17° $\mathbb{H}$ 12'31		max. Earth dist.	14508 Jan 20 05:31	15° $\mathbb{A}$ 08'53	1.32847 AU
	14507 Feb 20 21:20	0° $\mathbb{Y}$		evening rise	14508 Jan 25 04:21	25° $\mathbb{A}$ 23'43	
	14507 Mar 14 07:18	0° $\mathbb{B}$			14508 Jan 27 12:24	0° $\mathbb{H}$	
evening max el	14507 Mar 17 16:57	3° $\mathbb{B}$ 31'59	26°52'53	desc. node	14508 Jan 31 10:37	7° $\mathbb{H}$ 22'53	
retrograde	14507 Mar 30 23:41	10° $\mathbb{B}$ 58'49			14508 Feb 14 08:13	0° $\mathbb{Y}$	
evening set	14507 Apr 06 11:28	8° $\mathbb{B}$ 26'48		evening max el	14508 Feb 28 06:04	16° $\mathbb{Y}$ 55'47	27°27'31
asc. node	14507 Apr 09 19:43	5° $\mathbb{B}$ 13'55		retrograde	14508 Mar 12 22:44	24° $\mathbb{Y}$ 24'25	
min. Earth dist.	14507 Apr 10 11:02	4° $\mathbb{B}$ 31'02	0.65975 AU	evening set	14508 Mar 19 17:20	21° $\mathbb{Y}$ 56'38	
inferior conj	14507 Apr 12 13:45	2° $\mathbb{B}$ 03'26	0°51'11	min. Earth dist.	14508 Mar 23 13:00	18° $\mathbb{Y}$ 32'01	0.64197 AU
minimum elong	14507 Apr 12 12:28	2° $\mathbb{B}$ 07'12	0°50'14	inferior conj	14508 Mar 26 03:30	15° $\mathbb{Y}$ 47'16	-0°10'57
	14507 Apr 14 09:18	30° $\mathbb{R}$ $\mathbb{Y}$		minimum elong	14508 Mar 26 03:50	15° $\mathbb{Y}$ 46'23	0°10'59
morning rise	14507 Apr 18 14:48	26° $\mathbb{Y}$ 27'32		transit middle	14508 Mar 26 03:50	15° $\mathbb{Y}$ 46'23	0°10'59
direct	14507 Apr 21 12:21	25° $\mathbb{Y}$ 41'28		transit begin	14508 Mar 26 01:34	15° $\mathbb{Y}$ 52'22	
morning max el	14507 Apr 27 20:56	29° $\mathbb{Y}$ 01'30	18°09'28	transit end	14508 Mar 26 06:05	15° $\mathbb{Y}$ 40'25	
	14507 Apr 28 19:48	0° $\mathbb{B}$		asc. node	14508 Mar 26 17:10	15° $\mathbb{Y}$ 11'16	
desc. node	14507 May 12 16:14	20° $\mathbb{B}$ 00'37		morning rise	14508 Apr 01 16:27	10° $\mathbb{Y}$ 25'39	
morning set	14507 May 16 21:36	26° $\mathbb{B}$ 48'27		direct	14508 Apr 04 05:16	9° $\mathbb{Y}$ 53'04	
	14507 May 18 21:13	0° $\mathbb{H}$		morning max el	14508 Apr 10 14:05	13° $\mathbb{Y}$ 09'32	17°49'43
					14508 Apr 22 10:01	0° $\mathbb{B}$	
superior conj	14507 May 31 23:46	20° $\mathbb{H}$ 47'53	-1°58'03	morning set	14508 Apr 27 13:18	8° $\mathbb{B}$ 37'06	
minimum elong	14507 May 31 15:37	20° $\mathbb{H}$ 15'56	1°58'30	desc. node	14508 Apr 28 12:55	10° $\mathbb{B}$ 16'29	
max. Earth dist.	14507 Jun 03 01:28	24° $\mathbb{H}$ 02'16	1.45861 AU		14508 May 10 11:44	0° $\mathbb{H}$	
	14507 Jun 06 21:17	0° $\mathbb{B}$					
evening rise	14507 Jun 17 02:03	15° $\mathbb{B}$ 49'35		superior conj	14508 May 10 20:58	0° $\mathbb{H}$ 37'09	-1°27'02
	14507 Jun 26 06:40	0° $\mathbb{Q}$		minimum elong	14508 May 10 12:40	0° $\mathbb{H}$ 03'45	1°26'55
greatest brilliancy	14507 Jun 28 20:11	3° $\mathbb{Q}$ 52'55	-0.7m	max. Earth dist.	14508 May 15 21:25	8° $\mathbb{H}$ 36'57	1.45215 AU
asc. node	14507 Jul 06 17:56	15° $\mathbb{Q}$ 05'34		evening rise	14508 May 26 14:22	25° $\mathbb{H}$ 14'23	
evening max el	14507 Jul 10 21:08	19° $\mathbb{Q}$ 51'55	19°12'55		14508 May 29 17:19	0° $\mathbb{B}$	
retrograde	14507 Jul 17 19:55	23° $\mathbb{Q}$ 43'00			14508 Jun 19 16:57	0° $\mathbb{Q}$	
evening set	14507 Jul 21 09:14	22° $\mathbb{Q}$ 29'41		asc. node	14508 Jun 22 14:50	3° $\mathbb{Q}$ 16'39	
inferior conj	14507 Jul 26 19:38	16° $\mathbb{Q}$ 40'26	2°58'21	evening max el	14508 Jun 23 01:07	3° $\mathbb{Q}$ 42'47	20°09'11
minimum elong	14507 Jul 26 21:05	16° $\mathbb{Q}$ 35'44	2°57'23	retrograde	14508 Jun 30 18:42	8° $\mathbb{Q}$ 07'12	
min. Earth dist.	14507 Jul 28 06:46	14° $\mathbb{Q}$ 46'30	0.66965 AU	evening set	14508 Jul 04 17:59	6° $\mathbb{Q}$ 36'34	
morning rise	14507 Aug 01 08:19	10° $\mathbb{Q}$ 15'15		inferior conj	14508 Jul 10 00:43	0° $\mathbb{Q}$ 34'33	3°09'41
direct	14507 Aug 07 10:10	7° $\mathbb{Q}$ 37'57		minimum elong	14508 Jul 10 01:11	0° $\mathbb{Q}$ 32'57	3°08'44
desc. node	14507 Aug 08 14:54	7° $\mathbb{Q}$ 43'23			14508 Jul 10 10:51	30° $\mathbb{R}$ $\mathbb{B}$	
morning max el	14507 Aug 19 23:42	15° $\mathbb{Q}$ 08'01	25°54'11	min. Earth dist.	14508 Jul 10 21:42	29° $\mathbb{B}$ 23'10	0.68125 AU
	14507 Sep 01 04:47	0° $\mathbb{H}$		morning rise	14508 Jul 15 08:03	24° $\mathbb{B}$ 11'40	
	14507 Sep 20 10:13	0° $\mathbb{A}$		direct	14508 Jul 20 22:45	21° $\mathbb{B}$ 43'52	
morning set	14507 Sep 24 23:03	8° $\mathbb{A}$ 07'05		desc. node	14508 Jul 25 12:17	23° $\mathbb{B}$ 02'50	
max. Earth dist.	14507 Sep 28 15:48	15° $\mathbb{A}$ 03'30	1.35438 AU	morning max el	14508 Aug 01 10:19	28° $\mathbb{B}$ 36'21	24°30'19

	14508 Aug 02 18:25	0°♊			14509 Jul 29 03:17	0°♊	
	14508 Aug 24 22:19	0°♎			14509 Aug 17 18:27	0°♎	
morning set	14508 Sep 06 01:02	19°♎54'15		morning set	14509 Aug 18 04:57	0°♎43'22	
max. Earth dist.	14508 Sep 09 15:28	26°♎17'40	1.37676 AU	max. Earth dist.	14509 Aug 22 14:09	8°♎06'02	1.40049 AU
	14508 Sep 11 16:11	0°♊					
				superior conj	14509 Aug 30 09:27	21°♎55'52	-0°53'23
superior conj	14508 Sep 16 17:10	9°♊31'23	-0°17'56	minimum elong	14509 Aug 30 13:29	22°♎14'20	0°52'57
minimum elong	14508 Sep 16 18:22	9°♊37'11	0°17'39		14509 Sep 03 17:35	0°♊	
asc. node	14508 Sep 18 16:18	13°♊20'54		asc. node	14509 Sep 05 12:51	3°♊25'00	
evening rise	14508 Sep 25 06:27	26°♊27'38		evening rise	14509 Sep 09 01:24	10°♊08'54	
	14508 Sep 27 01:14	0°♎			14509 Sep 20 06:16	0°♎	
evening max el	14508 Oct 11 23:16	23°♎52'13	19°16'38	evening max el	14509 Sep 25 00:58	5°♎59'09	18°31'40
retrograde	14508 Oct 21 06:31	28°♎32'07		retrograde	14509 Oct 02 23:11	9°♎59'37	
desc. node	14508 Oct 21 08:28	28°♎32'06		evening set	14509 Oct 04 22:18	9°♎45'37	
evening set	14508 Oct 23 03:23	28°♎21'36		desc. node	14509 Oct 08 05:54	8°♎24'50	
inferior conj	14508 Oct 31 16:44	24°♎11'31	-3°14'00	inferior conj	14509 Oct 12 19:07	5°♎15'34	-1°27'09
minimum elong	14508 Oct 31 08:37	24°♎24'58	3°10'16	minimum elong	14509 Oct 12 15:39	5°♎22'17	1°25'14
min. Earth dist.	14508 Nov 03 07:39	22°♎27'29	0.55824 AU	min. Earth dist.	14509 Oct 16 00:09	2°♎47'14	0.57626 AU
morning rise	14508 Nov 08 11:29	19°♎39'37		morning rise	14509 Oct 20 05:31	0°♎06'00	
direct	14508 Nov 13 22:10	18°♎31'58			14509 Oct 20 10:21	30°♎	
morning max el	14508 Nov 27 23:14	25°♎38'09	25°33'09	direct	14509 Oct 26 08:12	28°♊31'35	
	14508 Dec 02 01:49	0°♊			14509 Nov 01 09:14	0°♎	
asc. node	14508 Dec 15 17:23	20°♊20'00		morning max el	14509 Nov 09 15:06	6°♎03'03	26°57'31
	14508 Dec 20 19:02	0°♊			14509 Nov 27 08:00	0°♊	
morning set	14508 Dec 25 03:59	9°♊07'15		asc. node	14509 Dec 02 14:22	9°♊30'11	
				morning set	14509 Dec 09 13:34	23°♊38'02	
superior conj	14508 Dec 31 22:02	23°♊59'06	1°37'50		14509 Dec 12 11:49	0°♊	
minimum elong	14508 Dec 31 22:17	24°♊00'28	1°38'49				
max. Earth dist.	14509 Jan 02 08:53	27°♊11'33	1.31768 AU	superior conj	14509 Dec 16 09:25	8°♊41'05	1°36'15
	14509 Jan 03 15:38	0°♊		minimum elong	14509 Dec 16 08:37	8°♊36'36	1°37'16
evening rise	14509 Jan 08 01:39	9°♊25'13		max. Earth dist.	14509 Dec 16 16:15	9°♊19'19	1.31196 AU
desc. node	14509 Jan 17 07:17	27°♊14'58		evening rise	14509 Dec 23 05:27	23°♊42'04	
	14509 Jan 18 20:54	0°♊			14509 Dec 26 06:05	0°♊	
evening max el	14509 Feb 09 16:18	29°♊46'51	27°32'54	desc. node	14510 Jan 04 04:03	16°♊41'34	
	14509 Feb 09 21:51	0°♊			14510 Jan 12 18:27	0°♊	
retrograde	14509 Feb 23 14:11	7°♊10'46		evening max el	14510 Jan 22 21:14	11°♊54'00	27°04'30
evening set	14509 Mar 02 11:16	4°♊54'29		retrograde	14510 Feb 05 21:06	19°♊09'12	
min. Earth dist.	14509 Mar 06 05:25	1°♊55'50	0.62138 AU	evening set	14510 Feb 12 14:08	17°♊12'25	
	14509 Mar 08 07:04	30°♊		min. Earth dist.	14510 Feb 16 11:34	14°♊30'52	0.59934 AU
inferior conj	14509 Mar 09 05:32	29°♊06'47	-1°25'11	inferior conj	14510 Feb 19 16:22	11°♊53'13	-2°48'56
minimum elong	14509 Mar 09 08:28	28°♊59'51	1°23'51	minimum elong	14510 Feb 19 22:35	11°♊40'25	2°46'10
asc. node	14509 Mar 13 14:39	25°♊26'13		morning rise	14510 Feb 27 10:22	7°♊08'42	
morning rise	14509 Mar 16 08:35	24°♊02'21		asc. node	14510 Feb 28 12:08	6°♊56'20	
direct	14509 Mar 18 14:12	23°♊39'52		direct	14510 Mar 01 11:15	6°♊52'42	
morning max el	14509 Mar 25 07:33	27°♊03'55	17°47'35	morning max el	14510 Mar 08 21:54	10°♊35'19	18°04'03
	14509 Mar 27 22:07	0°♊			14510 Mar 21 16:32	0°♊	
morning set	14509 Apr 10 04:02	21°♊30'18		morning set	14510 Mar 24 11:48	5°♊10'33	
	14509 Apr 14 23:47	0°♊		desc. node	14510 Apr 02 06:04	21°♊14'46	
desc. node	14509 Apr 15 09:31	0°♊42'27					
				superior conj	14510 Apr 03 11:48	23°♊27'10	-0°10'00
superior conj	14509 Apr 21 16:34	11°♊29'36	-0°48'32	minimum elong	14510 Apr 03 10:57	23°♊23'26	0°10'10
minimum elong	14509 Apr 21 11:56	11°♊10'05	0°48'27	behind sun begin	14510 Apr 03 04:53	22°♊56'29	
max. Earth dist.	14509 Apr 28 14:12	22°♊51'20	1.43895 AU	behind sun end	14510 Apr 03 17:01	23°♊50'20	
	14509 May 03 01:50	0°♊			14510 Apr 07 05:44	0°♊	
evening rise	14509 May 06 04:09	4°♊50'11		max. Earth dist.	14510 Apr 11 02:07	6°♊31'18	1.42049 AU
	14509 May 23 02:13	0°♊		evening rise	14510 Apr 16 09:07	15°♊10'23	
evening max el	14509 Jun 05 23:04	17°♊33'18	21°18'29		14510 Apr 25 22:44	0°♊	
asc. node	14509 Jun 09 11:51	20°♊37'31			14510 May 18 07:30	0°♊	
retrograde	14509 Jun 14 17:32	22°♊39'42		evening max el	14510 May 19 16:11	1°♊24'31	22°36'37
evening set	14509 Jun 19 03:26	20°♊52'13		asc. node	14510 May 27 08:58	6°♊52'49	
inferior conj	14509 Jun 24 09:10	14°♊39'00	3°09'13	retrograde	14510 May 29 14:45	7°♊15'17	
minimum elong	14509 Jun 24 08:39	14°♊40'47	3°08'10	evening set	14510 Jun 03 11:50	5°♊12'24	
min. Earth dist.	14509 Jun 24 16:38	14°♊13'00	0.68810 AU		14510 Jun 07 22:49	30°♊	
morning rise	14509 Jun 29 13:41	8°♊21'04		inferior conj	14510 Jun 08 18:57	28°♊50'05	2°58'02
direct	14509 Jul 04 16:02	6°♊08'27		minimum elong	14510 Jun 08 17:36	28°♊54'49	2°56'49
desc. node	14509 Jul 12 09:36	9°♊52'41		min. Earth dist.	14510 Jun 08 13:26	29°♊09'17	0.69016 AU
morning max el	14509 Jul 14 21:32	12°♊12'42	23°00'52	morning rise	14510 Jun 13 23:12	22°♊38'52	

direct	14510 Jun 18 12:59	20° $\Pi$ 44'57		inferior conj	14511 May 24 04:07	13° $\Pi$ 03'48	2°36'31
morning max el	14510 Jun 27 11:56	25° $\Pi$ 57'17	21°34'26	minimum elong	14511 May 24 02:10	13° $\Pi$ 10'27	2°35'08
desc. node	14510 Jun 29 06:49	27° $\Pi$ 49'56		morning rise	14511 May 29 10:44	7° $\Pi$ 00'43	
	14510 Jul 01 04:21	0° $\mathfrak{C}$		direct	14511 Jun 02 12:16	5° $\Pi$ 27'02	
	14510 Jul 22 14:21	0° $\Omega$		morning max el	14511 Jun 10 08:25	9° $\Pi$ 52'27	20°17'51
morning set	14510 Jul 29 08:16	10° $\Omega$ 28'38		desc. node	14511 Jun 16 03:54	16° $\Pi$ 36'29	
max. Earth dist.	14510 Aug 04 17:13	20° $\Omega$ 45'19	1.42284 AU		14511 Jun 25 18:27	0° $\mathfrak{C}$	
	14510 Aug 10 05:41	0° $\mathfrak{M}$		morning set	14511 Jul 08 15:32	19° $\mathfrak{C}$ 23'37	
					14511 Jul 15 10:41	0° $\Omega$	
superior conj	14510 Aug 12 06:16	3° $\mathfrak{M}$ 28'40	-1°28'16	max. Earth dist.	14511 Jul 18 03:19	4° $\Omega$ 16'46	1.44121 AU
minimum elong	14510 Aug 12 13:01	3° $\mathfrak{M}$ 57'55	1°27'57				
evening rise	14510 Aug 23 08:31	23° $\mathfrak{M}$ 17'40		superior conj	14511 Jul 24 04:00	14° $\Omega$ 02'47	-1°57'05
asc. node	14510 Aug 23 09:25	23° $\mathfrak{M}$ 21'47		minimum elong	14511 Jul 24 11:10	14° $\Omega$ 32'14	1°57'22
	14510 Aug 27 01:13	0° $\mathfrak{L}$			14511 Aug 02 15:41	0° $\mathfrak{M}$	
evening max el	14510 Sep 08 10:55	18° $\mathfrak{L}$ 44'55	18°07'32	evening rise	14511 Aug 05 22:59	5° $\mathfrak{M}$ 42'01	
retrograde	14510 Sep 15 10:11	22° $\mathfrak{L}$ 18'40		asc. node	14511 Aug 10 06:02	13° $\mathfrak{M}$ 07'11	
evening set	14510 Sep 17 16:10	21° $\mathfrak{L}$ 56'48			14511 Aug 21 05:18	0° $\mathfrak{L}$	
inferior conj	14510 Sep 24 18:56	17° $\mathfrak{L}$ 06'02	0°06'37	evening max el	14511 Aug 23 00:56	1° $\mathfrak{L}$ 59'20	18°02'47
minimum elong	14510 Sep 24 19:10	17° $\mathfrak{L}$ 05'31	0°06'43	retrograde	14511 Aug 29 11:58	5° $\mathfrak{L}$ 20'32	
transit middle	14510 Sep 24 19:10	17° $\mathfrak{L}$ 05'31	0°06'43	evening set	14511 Sep 01 02:11	4° $\mathfrak{L}$ 47'12	
transit begin	14510 Sep 24 16:06	17° $\mathfrak{L}$ 12'24			14511 Sep 07 04:14	30° $\mathfrak{R}$ $\mathfrak{M}$	
transit end	14510 Sep 24 22:13	16° $\mathfrak{L}$ 58'37		inferior conj	14511 Sep 07 13:05	29° $\mathfrak{M}$ 37'17	1°19'32
desc. node	14510 Sep 25 03:26	16° $\mathfrak{L}$ 46'49		minimum elong	14511 Sep 07 15:08	29° $\mathfrak{M}$ 32'00	1°18'42
min. Earth dist.	14510 Sep 28 00:56	14° $\mathfrak{L}$ 11'29	0.59828 AU	min. Earth dist.	14511 Sep 10 11:05	26° $\mathfrak{M}$ 38'07	0.62120 AU
morning rise	14510 Oct 01 18:51	11° $\mathfrak{L}$ 23'44		desc. node	14511 Sep 12 00:58	25° $\mathfrak{M}$ 09'15	
direct	14510 Oct 08 07:41	9° $\mathfrak{L}$ 22'41		morning rise	14511 Sep 14 01:39	23° $\mathfrak{M}$ 31'47	
morning max el	14510 Oct 22 14:43	17° $\mathfrak{L}$ 11'59	27°47'15	direct	14511 Sep 20 18:00	21° $\mathfrak{M}$ 09'33	
	14510 Nov 02 05:55	0° $\mathfrak{M}$		morning max el	14511 Oct 04 20:47	29° $\mathfrak{M}$ 08'18	27°57'53
asc. node	14510 Nov 19 11:15	29° $\mathfrak{M}$ 03'11			14511 Oct 05 17:10	0° $\mathfrak{L}$	
	14510 Nov 19 22:44	0° $\mathfrak{X}$			14511 Oct 27 04:32	0° $\mathfrak{M}$	
morning set	14510 Nov 23 19:16	7° $\mathfrak{X}$ 53'56		asc. node	14511 Nov 06 08:02	18° $\mathfrak{M}$ 52'32	
max. Earth dist.	14510 Nov 30 00:04	21° $\mathfrak{X}$ 23'45	1.31158 AU	morning set	14511 Nov 07 19:03	21° $\mathfrak{M}$ 50'19	
					14511 Nov 11 16:15	0° $\mathfrak{X}$	
superior conj	14510 Nov 30 20:47	23° $\mathfrak{X}$ 19'17	1°28'46	max. Earth dist.	14511 Nov 13 04:39	3° $\mathfrak{X}$ 16'44	1.31670 AU
minimum elong	14510 Nov 30 19:06	23° $\mathfrak{X}$ 09'57	1°29'39				
	14510 Dec 03 20:36	0° $\mathfrak{Z}$		superior conj	14511 Nov 15 06:18	7° $\mathfrak{X}$ 48'50	1°15'26
evening rise	14510 Dec 07 13:32	8° $\mathfrak{Z}$ 07'59		minimum elong	14511 Nov 15 04:05	7° $\mathfrak{X}$ 36'38	1°16'04
	14510 Dec 18 17:12	0° $\mathfrak{A}$		evening rise	14511 Nov 22 00:02	22° $\mathfrak{X}$ 38'28	
desc. node	14510 Dec 22 00:57	5° $\mathfrak{A}$ 32'00			14511 Nov 25 11:40	0° $\mathfrak{Z}$	
evening max el	14511 Jan 04 18:35	23° $\mathfrak{A}$ 09'04	26°01'48	desc. node	14511 Dec 08 21:57	23° $\mathfrak{Z}$ 32'51	
	14511 Jan 16 09:55	0° $\mathfrak{H}$			14511 Dec 13 22:12	0° $\mathfrak{A}$	
retrograde	14511 Jan 18 17:21	0° $\mathfrak{H}$ 12'42		evening max el	14511 Dec 17 07:52	3° $\mathfrak{A}$ 35'17	24°31'31
	14511 Jan 21 00:31	30° $\mathfrak{R}$ $\mathfrak{A}$		retrograde	14511 Dec 31 00:32	10° $\mathfrak{A}$ 24'50	
evening set	14511 Jan 24 21:57	28° $\mathfrak{A}$ 42'21		evening set	14512 Jan 05 06:55	9° $\mathfrak{A}$ 23'53	
min. Earth dist.	14511 Jan 29 07:47	26° $\mathfrak{A}$ 04'59	0.57794 AU	min. Earth dist.	14512 Jan 10 19:39	6° $\mathfrak{A}$ 34'07	0.55989 AU
inferior conj	14511 Feb 01 08:21	23° $\mathfrak{A}$ 55'49	-4°14'41	inferior conj	14512 Jan 13 03:20	5° $\mathfrak{A}$ 07'32	-5°26'15
minimum elong	14511 Feb 01 17:10	23° $\mathfrak{A}$ 40'04	4°11'19	minimum elong	14512 Jan 13 11:07	4° $\mathfrak{A}$ 55'25	5°23'56
morning rise	14511 Feb 09 15:23	19° $\mathfrak{A}$ 32'43		morning rise	14512 Jan 21 17:20	1° $\mathfrak{A}$ 05'04	
direct	14511 Feb 11 16:00	19° $\mathfrak{A}$ 19'29		direct	14512 Jan 24 01:36	0° $\mathfrak{A}$ 50'19	
asc. node	14511 Feb 15 09:36	20° $\mathfrak{A}$ 07'03		asc. node	14512 Feb 02 06:59	4° $\mathfrak{A}$ 57'46	
morning max el	14511 Feb 20 05:05	23° $\mathfrak{A}$ 31'05	18°40'53	morning max el	14512 Feb 03 00:54	5° $\mathfrak{A}$ 39'34	19°40'09
	14511 Feb 25 10:27	0° $\mathfrak{H}$			14512 Feb 18 12:28	0° $\mathfrak{H}$	
morning set	14511 Mar 08 07:25	19° $\mathfrak{H}$ 21'48		morning set	14512 Feb 20 10:58	3° $\mathfrak{H}$ 52'38	
	14511 Mar 13 19:10	0° $\mathfrak{Y}$					
				superior conj	14512 Feb 28 09:45	19° $\mathfrak{H}$ 51'37	0°52'18
superior conj	14511 Mar 17 03:01	6° $\mathfrak{Y}$ 18'36	0°24'17	minimum elong	14512 Feb 28 12:20	20° $\mathfrak{H}$ 04'21	0°52'11
minimum elong	14511 Mar 17 04:36	6° $\mathfrak{Y}$ 26'02	0°24'01		14512 Mar 04 16:26	0° $\mathfrak{Y}$	
desc. node	14511 Mar 20 02:35	11° $\mathfrak{Y}$ 49'09		max. Earth dist.	14512 Mar 05 16:21	1° $\mathfrak{Y}$ 51'11	1.37606 AU
max. Earth dist.	14511 Mar 24 09:52	19° $\mathfrak{Y}$ 30'04	1.39874 AU	desc. node	14512 Mar 05 23:05	2° $\mathfrak{Y}$ 22'12	
evening rise	14511 Mar 28 10:58	26° $\mathfrak{Y}$ 25'59		evening rise	14512 Mar 09 09:18	8° $\mathfrak{Y}$ 33'32	
	14511 Mar 30 14:27	0° $\mathfrak{B}$			14512 Mar 22 09:57	0° $\mathfrak{B}$	
	14511 Apr 19 13:53	0° $\Pi$		evening max el	14512 Apr 13 20:09	29° $\mathfrak{B}$ 11'24	25°15'34
evening max el	14511 May 02 06:35	15° $\Pi$ 17'38	23°57'57		14512 Apr 14 16:18	0° $\Pi$	
retrograde	14511 May 13 08:55	21° $\Pi$ 48'21		retrograde	14512 Apr 25 22:53	6° $\Pi$ 12'46	
asc. node	14511 May 14 06:12	21° $\Pi$ 44'53		asc. node	14512 Apr 30 03:30	4° $\Pi$ 58'43	
evening set	14511 May 18 17:36	19° $\Pi$ 32'14		evening set	14512 May 01 19:06	3° $\Pi$ 46'35	
min. Earth dist.	14511 May 23 09:52	14° $\Pi$ 05'54	0.68745 AU		14512 May 05 07:48	30° $\mathfrak{R}$ $\mathfrak{B}$	

min. Earth dist.	14512 May 06 03:45	28° $\text{♄}$ 56'42	0.68014 AU	inferior conj	14513 Apr 21 12:43	11° $\text{♄}$ 22'19	1°21'21
inferior conj	14512 May 07 10:43	27° $\text{♄}$ 15'57	2°04'29	minimum elong	14513 Apr 21 10:54	11° $\text{♄}$ 27'53	1°20'08
minimum elong	14512 May 07 08:34	27° $\text{♄}$ 22'59	2°03'03	morning rise	14513 Apr 27 08:07	5° $\text{♄}$ 39'42	
morning rise	14512 May 12 22:22	21° $\text{♄}$ 22'20		direct	14513 Apr 30 11:21	4° $\text{♄}$ 44'23	
direct	14512 May 16 12:19	20° $\text{♄}$ 08'41		morning max el	14513 May 06 23:18	8° $\text{♄}$ 11'28	18°28'42
morning max el	14512 May 23 12:24	23° $\text{♄}$ 58'18	19°15'14	desc. node	14513 May 19 21:42	25° $\text{♄}$ 48'04	
	14512 May 28 16:43	0° $\text{♄}$			14513 May 22 14:16	0° $\text{♄}$	
desc. node	14512 Jun 02 00:51	5° $\text{♄}$ 59'00		morning set	14513 May 27 15:36	7° $\text{♄}$ 57'37	
greatest brilliancy	14512 Jun 05 07:12	10° $\text{♄}$ 45'28	-0.7m		14513 Jun 10 16:54	0° $\text{♄}$	
morning set	14512 Jun 16 19:04	28° $\text{♄}$ 14'05					
	14512 Jun 17 22:34	0° $\text{♄}$		superior conj	14513 Jun 12 12:16	2° $\text{♄}$ 49'09	-2°09'08
max. Earth dist.	14512 Jun 29 19:27	18° $\text{♄}$ 27'16	1.45364 AU	minimum elong	14513 Jun 12 07:07	2° $\text{♄}$ 29'04	2°09'59
				max. Earth dist.	14513 Jun 12 15:00	2° $\text{♄}$ 59'49	1.45894 AU
superior conj	14512 Jul 03 02:57	23° $\text{♄}$ 40'39	-2°12'42	evening rise	14513 Jun 28 07:26	27° $\text{♄}$ 34'41	
minimum elong	14512 Jul 03 05:32	23° $\text{♄}$ 50'52	2°13'39		14513 Jun 29 20:17	0° $\text{♄}$	
	14512 Jul 07 02:17	0° $\text{♄}$		greatest brilliancy	14513 Jul 07 02:19	11° $\text{♄}$ 23'20	-0.8m
evening rise	14512 Jul 17 15:34	17° $\text{♄}$ 09'08		asc. node	14513 Jul 13 23:26	21° $\text{♄}$ 40'49	
	14512 Jul 25 11:43	0° $\text{♄}$		evening max el	14513 Jul 20 03:12	29° $\text{♄}$ 15'42	18°47'25
asc. node	14512 Jul 27 02:42	2° $\text{♄}$ 35'31			14513 Jul 20 21:50	0° $\text{♄}$	
evening max el	14512 Aug 05 15:20	15° $\text{♄}$ 31'54	18°16'20	retrograde	14513 Jul 26 18:36	2° $\text{♄}$ 53'07	
retrograde	14512 Aug 12 00:05	18° $\text{♄}$ 54'37		evening set	14513 Jul 30 02:24	1° $\text{♄}$ 49'37	
evening set	14512 Aug 14 22:53	18° $\text{♄}$ 07'06			14513 Aug 01 07:53	30° $\text{♄}$	
inferior conj	14512 Aug 20 21:26	12° $\text{♄}$ 40'16	2°11'42	inferior conj	14513 Aug 04 16:16	26° $\text{♄}$ 07'59	2°45'46
minimum elong	14512 Aug 20 23:51	12° $\text{♄}$ 33'19	2°10'38	minimum elong	14513 Aug 04 18:11	26° $\text{♄}$ 01'56	2°44'45
min. Earth dist.	14512 Aug 23 06:54	9° $\text{♄}$ 55'44	0.64259 AU	min. Earth dist.	14513 Aug 06 11:36	23° $\text{♄}$ 52'34	0.66089 AU
morning rise	14512 Aug 26 23:17	6° $\text{♄}$ 21'08		morning rise	14513 Aug 10 09:05	19° $\text{♄}$ 43'03	
desc. node	14512 Aug 28 22:29	5° $\text{♄}$ 01'25		desc. node	14513 Aug 15 19:59	17° $\text{♄}$ 06'41	
direct	14512 Sep 02 13:12	3° $\text{♄}$ 45'58		direct	14513 Aug 16 16:09	17° $\text{♄}$ 04'03	
morning max el	14512 Sep 16 06:48	11° $\text{♄}$ 44'30	27°31'59	morning max el	14513 Aug 29 18:14	24° $\text{♄}$ 49'35	26°36'14
	14512 Sep 30 19:42	0° $\text{♄}$			14513 Sep 03 10:51	0° $\text{♄}$	
	14512 Oct 18 16:18	0° $\text{♄}$			14513 Sep 24 06:37	0° $\text{♄}$	
morning set	14512 Oct 21 10:25	5° $\text{♄}$ 20'52		morning set	14513 Oct 04 14:20	18° $\text{♄}$ 18'36	
asc. node	14512 Oct 23 04:43	8° $\text{♄}$ 52'22		max. Earth dist.	14513 Oct 08 14:20	26° $\text{♄}$ 03'26	1.34309 AU
max. Earth dist.	14512 Oct 26 02:19	14° $\text{♄}$ 50'27	1.32726 AU	asc. node	14513 Oct 10 01:20	28° $\text{♄}$ 58'21	
					14513 Oct 10 13:33	0° $\text{♄}$	
superior conj	14512 Oct 29 11:53	22° $\text{♄}$ 03'31	0°56'17				
minimum elong	14512 Oct 29 09:38	21° $\text{♄}$ 51'23	0°56'39	superior conj	14513 Oct 13 11:12	5° $\text{♄}$ 57'28	0°31'25
	14512 Nov 02 03:49	0° $\text{♄}$		minimum elong	14513 Oct 13 09:35	5° $\text{♄}$ 49'07	0°31'37
evening rise	14512 Nov 05 11:01	7° $\text{♄}$ 08'10		evening rise	14513 Oct 20 20:36	21° $\text{♄}$ 32'10	
	14512 Nov 17 08:21	0° $\text{♄}$			14513 Oct 24 23:32	0° $\text{♄}$	
desc. node	14512 Nov 24 19:04	10° $\text{♄}$ 25'48		evening max el	14513 Nov 09 09:18	23° $\text{♄}$ 44'20	21°11'56
evening max el	14512 Nov 27 17:33	13° $\text{♄}$ 34'15	22°48'54	desc. node	14513 Nov 11 16:17	25° $\text{♄}$ 47'28	
retrograde	14512 Dec 10 18:59	20° $\text{♄}$ 02'57		retrograde	14513 Nov 21 05:59	29° $\text{♄}$ 37'33	
evening set	14512 Dec 14 18:10	19° $\text{♄}$ 28'41		evening set	14513 Nov 23 22:29	29° $\text{♄}$ 20'39	
min. Earth dist.	14512 Dec 22 02:20	16° $\text{♄}$ 07'11	0.54800 AU	inferior conj	14513 Dec 02 18:55	25° $\text{♄}$ 28'06	-5°33'35
inferior conj	14512 Dec 23 03:39	15° $\text{♄}$ 31'13	-5°59'12	minimum elong	14513 Dec 02 11:05	25° $\text{♄}$ 39'11	5°31'16
minimum elong	14512 Dec 23 04:20	15° $\text{♄}$ 30'15	5°58'09	min. Earth dist.	14513 Dec 03 08:03	25° $\text{♄}$ 09'34	0.54466 AU
morning rise	14512 Dec 31 15:52	11° $\text{♄}$ 42'51		morning rise	14513 Dec 11 00:09	21° $\text{♄}$ 37'30	
direct	14513 Jan 03 17:17	11° $\text{♄}$ 21'15		direct	14513 Dec 15 00:35	21° $\text{♄}$ 02'44	
morning max el	14513 Jan 15 06:20	16° $\text{♄}$ 53'16	21°02'40	morning max el	14513 Dec 27 22:24	27° $\text{♄}$ 17'02	22°44'29
asc. node	14513 Jan 19 04:17	21° $\text{♄}$ 13'55			14513 Dec 30 13:25	0° $\text{♄}$	
	14513 Jan 25 02:59	0° $\text{♄}$		asc. node	14514 Jan 06 01:32	8° $\text{♄}$ 37'41	
morning set	14513 Feb 03 19:29	18° $\text{♄}$ 34'22			14514 Jan 17 16:44	0° $\text{♄}$	
	14513 Feb 09 06:32	0° $\text{♄}$		morning set	14514 Jan 19 06:40	3° $\text{♄}$ 19'39	
superior conj	14513 Feb 11 03:52	3° $\text{♄}$ 54'57	1°13'31	superior conj	14514 Jan 26 05:59	18° $\text{♄}$ 18'23	1°27'59
minimum elong	14513 Feb 11 06:25	4° $\text{♄}$ 08'02	1°13'44	minimum elong	14514 Jan 26 07:51	18° $\text{♄}$ 28'19	1°28'35
max. Earth dist.	14513 Feb 16 01:43	13° $\text{♄}$ 47'59	1.35475 AU	max. Earth dist.	14514 Jan 29 17:32	25° $\text{♄}$ 38'12	1.33677 AU
evening rise	14513 Feb 20 01:08	21° $\text{♄}$ 24'31			14514 Jan 31 20:42	0° $\text{♄}$	
desc. node	14513 Feb 20 19:36	22° $\text{♄}$ 50'17		evening rise	14514 Feb 03 06:53	4° $\text{♄}$ 49'20	
	14513 Feb 24 19:05	0° $\text{♄}$		desc. node	14514 Feb 07 16:09	13° $\text{♄}$ 08'38	
	14513 Mar 16 06:32	0° $\text{♄}$			14514 Feb 17 13:06	0° $\text{♄}$	
evening max el	14513 Mar 27 09:48	13° $\text{♄}$ 00'54	26°22'16	evening max el	14514 Mar 09 23:15	26° $\text{♄}$ 36'44	27°10'44
retrograde	14513 Apr 07 07:52	20° $\text{♄}$ 21'55			14514 Mar 13 20:23	0° $\text{♄}$	
evening set	14513 Apr 15 14:38	17° $\text{♄}$ 50'07		retrograde	14514 Mar 23 11:00	4° $\text{♄}$ 06'13	
asc. node	14513 Apr 17 00:51	16° $\text{♄}$ 32'48		evening set	14514 Mar 30 02:09	1° $\text{♄}$ 34'49	
min. Earth dist.	14513 Apr 19 17:01	13° $\text{♄}$ 35'28	0.66838 AU		14514 Mar 31 22:11	30° $\text{♄}$	

min. Earth dist.	14514 Apr 02 23:41	27° $\Upsilon$ 52'59	0.65258 AU	evening set	14515 Mar 13 03:19	14° $\Upsilon$ 52'46	
asc. node	14514 Apr 03 22:16	26° $\Upsilon$ 50'30		min. Earth dist.	14515 Mar 16 21:57	11° $\Upsilon$ 39'45	0.63349 AU
inferior conj	14514 Apr 05 07:42	25° $\Upsilon$ 16'20	0°26'20	inferior conj	14515 Mar 19 16:54	8° $\Upsilon$ 51'16	-0°41'01
minimum elong	14514 Apr 05 06:59	25° $\Upsilon$ 18'21	0°25'43	minimum elong	14515 Mar 19 18:13	8° $\Upsilon$ 47'56	0°40'31
morning rise	14514 Apr 11 13:32	19° $\Upsilon$ 46'28		asc. node	14515 Mar 21 19:44	6° $\Upsilon$ 47'25	
direct	14514 Apr 14 07:07	19° $\Upsilon$ 06'42		morning rise	14515 Mar 26 11:38	3° $\Upsilon$ 36'31	
morning max el	14514 Apr 20 14:57	22° $\Upsilon$ 23'55	17°58'58	direct	14515 Mar 28 21:03	3° $\Upsilon$ 08'48	
	14514 Apr 26 17:07	0° $\text{♄}$		morning max el	14515 Apr 04 08:38	6° $\Upsilon$ 27'29	17°46'30
desc. node	14514 May 06 18:25	15° $\text{♄}$ 55'45			14515 Apr 19 23:20	0° $\text{♄}$	
morning set	14514 May 08 15:33	19° $\text{♄}$ 00'51		morning set	14515 Apr 20 17:46	1° $\text{♄}$ 19'14	
	14514 May 15 09:15	0° $\text{♄}$		desc. node	14515 Apr 23 15:04	6° $\text{♄}$ 16'31	
superior conj	14514 May 23 00:32	12° $\text{♄}$ 12'07	-1°46'22	superior conj	14515 May 03 06:36	22° $\text{♄}$ 26'46	-1°11'06
minimum elong	14514 May 22 15:35	11° $\text{♄}$ 36'46	1°46'31	minimum elong	14515 May 02 23:38	21° $\text{♄}$ 58'16	1°10'57
max. Earth dist.	14514 May 26 10:56	17° $\text{♄}$ 36'10	1.45672 AU		14515 May 07 22:37	0° $\text{♄}$	
	14514 Jun 03 10:18	0° $\text{♄}$		max. Earth dist.	14515 May 09 05:14	2° $\text{♄}$ 02'06	1.44732 AU
evening rise	14514 Jun 08 02:14	7° $\text{♄}$ 11'11		evening rise	14515 May 18 13:04	16° $\text{♄}$ 35'23	
greatest brilliancy	14514 Jun 21 17:18	27° $\text{♄}$ 49'37	-0.7m		14515 May 27 10:06	0° $\text{♄}$	
	14514 Jun 23 05:04	0° $\text{♄}$		evening max el	14515 Jun 16 11:47	26° $\text{♄}$ 56'00	20°37'23
asc. node	14514 Jun 30 20:16	10° $\text{♄}$ 14'38		asc. node	14515 Jun 17 17:13	28° $\text{♄}$ 06'12	
evening max el	14514 Jul 03 10:22	13° $\text{♄}$ 04'51	19°35'05		14515 Jun 20 02:40	0° $\text{♄}$	
retrograde	14514 Jul 10 16:31	17° $\text{♄}$ 09'17		retrograde	14515 Jun 24 15:27	1° $\text{♄}$ 37'26	
evening set	14514 Jul 14 09:53	15° $\text{♄}$ 48'47		evening set	14515 Jun 28 19:08	29° $\text{♄}$ 59'44	
inferior conj	14514 Jul 19 18:22	9° $\text{♄}$ 53'54	3°04'42		14515 Jun 28 19:00	30° $\text{♄}$ 00'00	
minimum elong	14514 Jul 19 19:25	9° $\text{♄}$ 50'26	3°03'45	inferior conj	14515 Jul 04 01:10	23° $\text{♄}$ 52'59	3°10'51
min. Earth dist.	14514 Jul 20 23:28	8° $\text{♄}$ 17'15	0.67512 AU	minimum elong	14515 Jul 04 01:12	23° $\text{♄}$ 52'49	3°09'51
morning rise	14514 Jul 25 04:27	3° $\text{♄}$ 29'01		min. Earth dist.	14515 Jul 04 16:25	23° $\text{♄}$ 00'25	0.68478 AU
direct	14514 Jul 31 01:43	0° $\text{♄}$ 54'46		morning rise	14515 Jul 09 06:59	17° $\text{♄}$ 31'51	
desc. node	14514 Aug 02 17:24	1° $\text{♄}$ 21'32		direct	14515 Jul 14 16:35	15° $\text{♄}$ 09'39	
morning max el	14514 Aug 12 05:08	8° $\text{♄}$ 11'25	25°19'44	desc. node	14515 Jul 20 14:46	17° $\text{♄}$ 22'25	
	14514 Aug 29 07:42	0° $\text{♄}$		morning max el	14515 Jul 25 15:31	21° $\text{♄}$ 42'35	23°52'16
	14514 Sep 16 19:18	0° $\text{♄}$			14515 Aug 01 20:13	0° $\text{♄}$	
morning set	14514 Sep 17 03:03	0° $\text{♄}$ 34'46			14515 Aug 22 13:53	0° $\text{♄}$	
max. Earth dist.	14514 Sep 20 16:49	7° $\text{♄}$ 07'39	1.36348 AU	morning set	14515 Aug 29 20:05	11° $\text{♄}$ 58'10	
asc. node	14514 Sep 26 21:55	19° $\text{♄}$ 06'38		max. Earth dist.	14515 Sep 02 14:51	18° $\text{♄}$ 31'34	1.38683 AU
					14515 Sep 08 22:22	0° $\text{♄}$	
superior conj	14514 Sep 27 01:23	19° $\text{♄}$ 23'55	0°01'21	superior conj	14515 Sep 10 02:53	2° $\text{♄}$ 13'57	-0°32'47
minimum elong	14514 Sep 27 01:17	19° $\text{♄}$ 23'24	0°01'34	minimum elong	14515 Sep 10 05:13	2° $\text{♄}$ 24'59	0°32'26
behind sun begin	14514 Sep 26 18:57	18° $\text{♄}$ 51'54		asc. node	14515 Sep 13 18:29	9° $\text{♄}$ 13'28	
behind sun end	14514 Sep 27 07:37	19° $\text{♄}$ 54'58		evening rise	14515 Sep 19 02:34	19° $\text{♄}$ 40'15	
	14514 Oct 02 07:08	0° $\text{♄}$			14515 Sep 24 11:40	0° $\text{♄}$	
evening rise	14514 Oct 05 02:40	5° $\text{♄}$ 45'12		evening max el	14515 Oct 05 09:42	16° $\text{♄}$ 16'48	18°54'56
	14514 Oct 18 16:49	0° $\text{♄}$		retrograde	14515 Oct 14 01:31	20° $\text{♄}$ 38'06	
evening max el	14514 Oct 22 14:32	4° $\text{♄}$ 36'05	19°52'36	evening set	14515 Oct 15 22:39	20° $\text{♄}$ 26'35	
desc. node	14514 Oct 29 13:36	9° $\text{♄}$ 11'43		desc. node	14515 Oct 16 11:02	20° $\text{♄}$ 19'34	
retrograde	14514 Nov 01 20:17	9° $\text{♄}$ 42'24		inferior conj	14515 Oct 24 05:32	16° $\text{♄}$ 08'36	-2°28'02
evening set	14514 Nov 03 19:56	9° $\text{♄}$ 31'46		minimum elong	14515 Oct 23 23:20	16° $\text{♄}$ 19'31	2°24'57
inferior conj	14514 Nov 12 15:39	5° $\text{♄}$ 31'35	-4°13'51	min. Earth dist.	14515 Oct 27 04:24	14° $\text{♄}$ 03'58	0.56524 AU
minimum elong	14514 Nov 12 05:46	5° $\text{♄}$ 46'44	4°09'53	morning rise	14515 Oct 31 21:02	11° $\text{♄}$ 21'01	
min. Earth dist.	14514 Nov 14 16:02	4° $\text{♄}$ 17'28	0.55077 AU	direct	14515 Nov 06 15:29	10° $\text{♄}$ 02'02	
morning rise	14514 Nov 20 14:10	1° $\text{♄}$ 18'56		morning max el	14515 Nov 20 19:25	17° $\text{♄}$ 19'31	26°12'36
direct	14514 Nov 25 13:33	0° $\text{♄}$ 24'34			14515 Dec 01 06:21	0° $\text{♄}$	
morning max el	14514 Dec 09 07:50	7° $\text{♄}$ 14'33	24°33'48	asc. node	14515 Dec 10 19:44	15° $\text{♄}$ 45'48	
asc. node	14514 Dec 23 22:40	26° $\text{♄}$ 52'54			14515 Dec 17 23:36	0° $\text{♄}$	
	14514 Dec 25 17:12	0° $\text{♄}$		morning set	14515 Dec 19 05:33	2° $\text{♄}$ 39'43	
morning set	14515 Jan 03 18:37	18° $\text{♄}$ 03'22					
	14515 Jan 09 05:42	0° $\text{♄}$		superior conj	14515 Dec 25 23:55	17° $\text{♄}$ 35'17	1°37'53
superior conj	14515 Jan 10 13:26	2° $\text{♄}$ 54'20	1°36'00	minimum elong	14515 Dec 25 23:42	17° $\text{♄}$ 34'06	1°38'54
minimum elong	14515 Jan 10 14:18	2° $\text{♄}$ 59'06	1°36'54	max. Earth dist.	14515 Dec 26 22:32	19° $\text{♄}$ 41'08	1.31464 AU
max. Earth dist.	14515 Jan 12 17:03	7° $\text{♄}$ 35'32	1.32326 AU		14515 Dec 31 15:48	0° $\text{♄}$	
evening rise	14515 Jan 17 23:24	18° $\text{♄}$ 40'17		evening rise	14516 Jan 01 23:45	2° $\text{♄}$ 49'11	
	14515 Jan 23 18:49	0° $\text{♄}$		desc. node	14516 Jan 12 09:33	22° $\text{♄}$ 54'59	
desc. node	14515 Jan 25 12:48	3° $\text{♄}$ 12'34			14516 Jan 16 14:39	0° $\text{♄}$	
	14515 Feb 11 19:27	0° $\text{♄}$		evening max el	14516 Feb 02 20:00	22° $\text{♄}$ 23'19	27°25'10
evening max el	14515 Feb 20 11:26	9° $\text{♄}$ 48'36	27°33'41	retrograde	14516 Feb 16 19:09	29° $\text{♄}$ 43'14	
retrograde	14515 Mar 06 07:13	17° $\text{♄}$ 16'30		evening set	14516 Feb 23 15:16	27° $\text{♄}$ 34'42	

min. Earth dist.	14516 Feb 27 10:13	24° $\text{H}$ 44'20	0.61211 AU	retrograde	14517 Jan 28 21:19	11° $\text{H}$ 18'24	
inferior conj	14516 Mar 01 12:57	21° $\text{H}$ 58'24	-1°59'47	evening set	14517 Feb 04 10:27	9° $\text{H}$ 32'11	
minimum elong	14516 Mar 01 17:15	21° $\text{H}$ 48'50	1°57'50	min. Earth dist.	14517 Feb 08 11:47	6° $\text{H}$ 54'27	0.59004 AU
asc. node	14516 Mar 07 17:12	17° $\text{H}$ 29'03		inferior conj	14517 Feb 11 16:08	4° $\text{H}$ 27'07	-3°25'48
morning rise	14516 Mar 08 22:21	17° $\text{H}$ 01'43		minimum elong	14517 Feb 11 23:41	4° $\text{H}$ 12'30	3°22'36
direct	14516 Mar 11 01:35	16° $\text{H}$ 42'24			14517 Feb 19 03:26	30° $\text{R}$ $\approx$	
morning max el	14516 Mar 18 01:10	20° $\text{H}$ 13'12	17°52'08	morning rise	14517 Feb 19 16:07	29° $\approx$ 51'35	
	14516 Mar 25 08:08	0° $\text{Y}$		direct	14517 Feb 21 16:22	29° $\approx$ 37'07	
morning set	14516 Apr 02 16:31	14° $\text{Y}$ 35'11		asc. node	14517 Feb 22 14:41	29° $\approx$ 40'19	
desc. node	14516 Apr 09 11:40	26° $\text{Y}$ 45'58			14517 Feb 24 03:38	0° $\text{H}$	
	14516 Apr 11 07:54	0° $\text{B}$		morning max el	14517 Mar 01 12:54	3° $\text{H}$ 30'27	18°17'10
				morning set	14517 Mar 17 05:53	28° $\text{H}$ 30'29	
					14517 Mar 18 00:48	0° $\text{Y}$	
superior conj	14516 Apr 13 12:29	3° $\text{B}$ 47'43	-0°31'52				
minimum elong	14516 Apr 13 09:34	3° $\text{B}$ 35'12	0°31'53				
max. Earth dist.	14516 Apr 20 20:23	16° $\text{B}$ 04'45	1.43171 AU	superior conj	14517 Mar 26 16:46	16° $\text{Y}$ 09'57	0°05'15
evening rise	14516 Apr 27 08:11	26° $\text{B}$ 28'11		minimum elong	14517 Mar 26 17:09	16° $\text{Y}$ 11'40	0°05'00
	14516 Apr 29 14:34	0° $\text{II}$		behind sun begin	14517 Mar 26 10:04	15° $\text{Y}$ 39'31	
	14516 May 20 06:20	0° $\text{E}$		behind sun end	14517 Mar 27 00:13	16° $\text{Y}$ 43'44	
evening max el	14516 May 29 07:39	10° $\text{E}$ 47'44	21°51'01	desc. node	14517 Mar 27 08:12	17° $\text{Y}$ 19'47	
asc. node	14516 Jun 03 14:16	15° $\text{E}$ 01'50		max. Earth dist.	14517 Apr 03 06:54	29° $\text{Y}$ 29'55	1.41152 AU
retrograde	14516 Jun 07 13:40	16° $\text{E}$ 12'27			14517 Apr 03 13:59	0° $\text{B}$	
evening set	14516 Jun 12 04:21	14° $\text{E}$ 18'10		evening rise	14517 Apr 07 21:45	7° $\text{B}$ 11'38	
inferior conj	14516 Jun 17 10:25	8° $\text{E}$ 01'02	3°05'45		14517 Apr 22 17:06	0° $\text{II}$	
minimum elong	14516 Jun 17 09:32	8° $\text{E}$ 04'09	3°04'37	evening max el	14517 May 11 23:17	24° $\text{II}$ 39'42	23°11'10
min. Earth dist.	14516 Jun 17 12:20	7° $\text{E}$ 54'23	0.68961 AU		14517 May 19 00:08	0° $\text{E}$	
morning rise	14516 Jun 22 14:32	1° $\text{E}$ 45'59		asc. node	14517 May 21 11:26	0° $\text{E}$ 44'16	
	14516 Jun 25 12:59	30° $\text{R}$ $\text{II}$		retrograde	14517 May 22 09:41	0° $\text{E}$ 48'07	
direct	14516 Jun 27 11:38	29° $\text{II}$ 40'54			14517 May 25 13:06	30° $\text{R}$ $\text{II}$	
	14516 Jun 29 12:33	0° $\text{E}$		evening set	14517 May 27 11:49	28° $\text{II}$ 38'59	
desc. node	14516 Jul 06 12:01	4° $\text{E}$ 43'51		inferior conj	14517 Jun 01 20:09	22° $\text{II}$ 13'40	2°50'09
morning max el	14516 Jul 07 03:39	5° $\text{E}$ 22'19	22°23'16	minimum elong	14517 Jun 01 18:30	22° $\text{II}$ 19'22	2°48'52
	14516 Jul 26 02:04	0° $\text{Q}$		min. Earth dist.	14517 Jun 01 09:07	22° $\text{II}$ 51'48	0.68962 AU
morning set	14516 Aug 09 13:35	22° $\text{Q}$ 20'16		morning rise	14517 Jun 07 01:07	16° $\text{II}$ 06'02	
	14516 Aug 14 05:09	0° $\text{M}$		direct	14517 Jun 11 09:36	14° $\text{II}$ 20'49	
max. Earth dist.	14516 Aug 14 15:25	0° $\text{M}$ 43'07	1.41039 AU	morning max el	14517 Jun 19 20:28	19° $\text{II}$ 11'49	21°00'24
				desc. node	14517 Jun 23 09:10	23° $\text{II}$ 04'05	
superior conj	14516 Aug 22 11:29	14° $\text{M}$ 18'20	-1°08'31		14517 Jun 28 19:31	0° $\text{E}$	
minimum elong	14516 Aug 22 16:47	14° $\text{M}$ 42'01	1°08'05		14517 Jul 19 05:12	0° $\text{Q}$	
asc. node	14516 Aug 30 15:05	29° $\text{M}$ 15'27		morning set	14517 Jul 20 07:10	1° $\text{Q}$ 40'59	
	14516 Aug 31 00:36	0° $\text{A}$		max. Earth dist.	14517 Jul 27 21:50	13° $\text{Q}$ 47'09	1.43131 AU
evening rise	14516 Sep 01 17:03	3° $\text{A}$ 09'33					
evening max el	14516 Sep 17 15:26	28° $\text{A}$ 41'38	18°18'53	superior conj	14517 Aug 03 22:41	25° $\text{Q}$ 26'16	-1°41'38
	14516 Sep 19 01:56	0° $\text{M}$		minimum elong	14517 Aug 04 06:05	25° $\text{Q}$ 57'34	1°41'31
retrograde	14516 Sep 25 02:23	2° $\text{M}$ 28'58			14517 Aug 06 14:55	0° $\text{M}$	
evening set	14516 Sep 27 04:15	2° $\text{M}$ 11'59		evening rise	14517 Aug 15 17:42	16° $\text{M}$ 01'11	
	14516 Oct 01 13:22	30° $\text{R}$ $\text{A}$		asc. node	14517 Aug 17 11:39	19° $\text{M}$ 08'05	
desc. node	14516 Oct 02 08:29	29° $\text{A}$ 25'28			14517 Aug 23 17:37	0° $\text{A}$	
inferior conj	14516 Oct 04 17:14	27° $\text{A}$ 32'38	-0°45'01	evening max el	14517 Sep 01 03:29	11° $\text{A}$ 40'17	18°03'09
minimum elong	14516 Oct 04 15:33	27° $\text{A}$ 36'06	0°43'58	retrograde	14517 Sep 07 20:26	15° $\text{A}$ 07'21	
min. Earth dist.	14516 Oct 07 23:53	24° $\text{A}$ 50'57	0.58539 AU	evening set	14517 Sep 10 05:44	14° $\text{A}$ 41'05	
morning rise	14516 Oct 11 23:24	22° $\text{A}$ 08'21		inferior conj	14517 Sep 17 01:20	9° $\text{A}$ 41'38	0°40'11
direct	14516 Oct 18 07:11	20° $\text{A}$ 22'33		minimum elong	14517 Sep 17 02:33	9° $\text{A}$ 38'43	0°39'48
morning max el	14516 Nov 01 14:32	28° $\text{A}$ 01'32	27°23'26	desc. node	14517 Sep 19 05:59	7° $\text{A}$ 35'11	
	14516 Nov 03 13:00	0° $\text{M}$		min. Earth dist.	14517 Sep 20 04:37	6° $\text{A}$ 42'34	0.60806 AU
	14516 Nov 23 23:45	0° $\text{X}$		morning rise	14517 Sep 23 20:24	3° $\text{A}$ 47'55	
asc. node	14516 Nov 26 16:42	5° $\text{X}$ 06'37		direct	14517 Sep 30 11:17	1° $\text{A}$ 37'12	
morning set	14516 Dec 02 13:42	17° $\text{X}$ 04'26		morning max el	14517 Oct 14 17:24	9° $\text{A}$ 31'51	27°56'38
	14516 Dec 08 11:12	0° $\text{B}$			14517 Oct 30 13:41	0° $\text{M}$	
				asc. node	14517 Nov 13 13:33	24° $\text{M}$ 47'38	
superior conj	14516 Dec 09 11:29	2° $\text{B}$ 15'46	1°33'47		14517 Nov 16 03:06	0° $\text{X}$	
minimum elong	14516 Dec 09 10:17	2° $\text{B}$ 09'03	1°34'45	morning set	14517 Nov 16 17:11	1° $\text{X}$ 13'02	
max. Earth dist.	14516 Dec 09 06:42	1° $\text{B}$ 49'00	1.31119 AU	max. Earth dist.	14517 Nov 22 13:43	13° $\text{X}$ 50'23	1.31306 AU
evening rise	14516 Dec 16 05:38	17° $\text{B}$ 10'16					
	14516 Dec 22 12:29	0° $\approx$		superior conj	14517 Nov 23 22:17	16° $\text{X}$ 50'58	1°23'50
desc. node	14516 Dec 29 06:22	12° $\approx$ 07'31		minimum elong	14517 Nov 23 20:20	16° $\text{X}$ 40'08	1°24'36
	14517 Jan 10 22:54	0° $\text{H}$			14517 Nov 29 20:46	0° $\text{B}$	
evening max el	14517 Jan 14 22:00	4° $\text{H}$ 08'39	26°41'46	evening rise	14517 Nov 30 14:58	1° $\text{B}$ 38'42	



	14517 Dec 15 17:08	0°♊		desc. node	14518 Dec 03 00:20	18°♊13'50	
desc. node	14517 Dec 16 03:18	0°♊39'07		evening max el	14518 Dec 09 02:15	25°♊11'37	23°48'22
evening max el	14517 Dec 27 15:32	15°♊01'04	25°25'58		14518 Dec 15 11:56	0°♊	
retrograde	14518 Jan 10 12:25	21°♊59'50		retrograde	14518 Dec 22 14:28	1°♊54'19	
evening set	14518 Jan 16 08:59	20°♊41'33		evening set	14518 Dec 27 08:02	1°♊05'37	
min. Earth dist.	14518 Jan 21 03:54	18°♊01'23	0.56963 AU		14518 Dec 30 00:10	30°♊	
inferior conj	14518 Jan 23 23:15	16°♊08'36	-4°48'08	min. Earth dist.	14519 Jan 02 13:23	28°♊04'28	0.55382 AU
minimum elong	14518 Jan 24 08:18	15°♊53'25	4°45'00	inferior conj	14519 Jan 04 09:38	26°♊58'41	-5°46'31
morning rise	14518 Feb 01 10:18	11°♊55'09		minimum elong	14519 Jan 04 15:05	26°♊50'34	5°44'55
direct	14518 Feb 03 13:01	11°♊41'52		morning rise	14519 Jan 12 23:53	23°♊03'25	
asc. node	14518 Feb 09 12:06	13°♊35'13		direct	14519 Jan 15 14:01	22°♊46'39	
morning max el	14518 Feb 12 15:50	16°♊08'16	19°03'23	morning max el	14519 Jan 26 05:51	27°♊54'20	20°12'31
	14518 Feb 22 10:50	0°♋		asc. node	14519 Jan 27 09:28	29°♊04'22	
morning set	14518 Mar 01 05:18	12°♋51'42			14519 Jan 28 05:42	0°♋	
				morning set	14519 Feb 13 11:14	27°♋27'42	
superior conj	14518 Mar 09 15:12	29°♋21'30	0°36'58		14519 Feb 14 16:56	0°♋	
minimum elong	14518 Mar 09 17:22	29°♋31'52	0°36'44				
	14518 Mar 09 23:15	0°♌		superior conj	14519 Feb 21 03:13	13°♋08'33	1°02'08
desc. node	14518 Mar 14 04:43	7°♌54'37		minimum elong	14519 Feb 21 05:53	13°♋21'57	1°02'08
max. Earth dist.	14518 Mar 16 13:32	12°♌11'37	1.38899 AU	max. Earth dist.	14519 Feb 26 20:11	24°♋17'59	1.36665 AU
evening rise	14518 Mar 20 08:36	18°♌50'34		desc. node	14519 Mar 01 01:14	28°♋26'02	
	14518 Mar 27 01:58	0°♍			14519 Mar 01 21:42	0°♌	
	14518 Apr 16 23:21	0°♍		evening rise	14519 Mar 02 14:48	1°♌17'48	
evening max el	14518 Apr 24 12:58	8°♍33'09	24°31'43		14519 Mar 20 05:22	0°♍	
retrograde	14518 May 06 02:21	15°♍18'53		evening max el	14519 Apr 07 02:28	22°♍25'43	25°45'44
asc. node	14518 May 08 08:39	14°♍56'37		retrograde	14519 Apr 19 14:27	29°♍37'29	
evening set	14518 May 11 16:00	12°♍57'48		asc. node	14519 Apr 25 05:58	27°♍27'08	
min. Earth dist.	14518 May 16 04:43	7°♍47'08	0.68491 AU	evening set	14519 Apr 25 15:10	27°♍08'26	
inferior conj	14518 May 17 04:28	6°♍27'37	2°24'15	min. Earth dist.	14519 Apr 29 21:01	22°♍33'28	0.67562 AU
minimum elong	14518 May 17 02:22	6°♍34'39	2°22'49	inferior conj	14519 May 01 09:22	20°♍38'03	1°47'36
morning rise	14518 May 22 12:55	0°♍28'28		minimum elong	14519 May 01 07:17	20°♍44'43	1°46'13
	14518 May 23 05:54	30°♍		morning rise	14519 May 06 23:58	14°♍48'42	
direct	14518 May 26 09:19	29°♍03'38		direct	14519 May 10 09:10	13°♍43'11	
	14518 May 29 17:22	0°♎		morning max el	14519 May 17 03:14	17°♍21'59	18°53'20
morning max el	14518 Jun 02 20:11	3°♎12'34	19°49'17		14519 May 26 23:21	0°♎	
desc. node	14518 Jun 10 06:12	12°♎07'38		desc. node	14519 May 28 03:07	1°♎42'35	
	14518 Jun 22 13:30	0°♏		greatest brilliancy	14519 May 30 16:04	5°♎31'42	-0.8m
morning set	14518 Jun 29 10:13	10°♏26'58		morning set	14519 Jun 08 18:48	19°♎34'00	
max. Earth dist.	14518 Jul 10 10:19	27°♏35'41	1.44732 AU		14519 Jun 15 11:59	0°♏	
	14518 Jul 11 22:40	0°♐		max. Earth dist.	14519 Jun 23 03:45	11°♏56'03	1.45681 AU
superior conj	14518 Jul 15 10:12	5°♐34'40	-2°05'46	superior conj	14519 Jun 25 01:48	14°♏56'19	-2°13'43
minimum elong	14518 Jul 15 16:06	5°♐58'27	2°06'23	minimum elong	14519 Jun 25 01:05	14°♏53'33	2°14'45
evening rise	14518 Jul 28 23:26	28°♐02'27			14519 Jul 04 14:19	0°♐	
	14518 Jul 30 03:11	0°♑		evening rise	14519 Jul 10 05:35	9°♐03'15	
asc. node	14518 Aug 04 08:15	8°♑46'55		asc. node	14519 Jul 22 04:56	28°♐06'38	
evening max el	14518 Aug 15 17:59	25°♑03'08	18°06'21		14519 Jul 23 11:21	0°♑	
retrograde	14518 Aug 22 03:05	28°♑23'34		evening max el	14519 Jul 30 07:42	8°♑42'04	18°27'31
evening set	14518 Aug 24 20:47	27°♑44'39		retrograde	14519 Aug 05 18:13	12°♑09'13	
inferior conj	14518 Aug 31 02:01	22°♑27'27	1°44'02	evening set	14519 Aug 08 20:47	11°♑15'09	
minimum elong	14518 Aug 31 04:22	22°♑21'05	1°43'04	inferior conj	14519 Aug 14 15:15	5°♑42'06	2°28'09
min. Earth dist.	14518 Sep 02 19:07	19°♑32'03	0.63058 AU	minimum elong	14519 Aug 14 17:32	5°♑35'16	2°27'05
morning rise	14518 Sep 06 09:50	16°♑14'46		min. Earth dist.	14519 Aug 16 18:54	3°♑08'15	0.65086 AU
desc. node	14518 Sep 06 03:30	16°♑26'47			14519 Aug 19 18:28	30°♑	
direct	14518 Sep 13 01:45	13°♑45'39		morning rise	14519 Aug 20 13:01	29°♑19'47	
morning max el	14518 Sep 27 01:34	21°♑46'43	27°50'58	desc. node	14519 Aug 24 01:00	27°♑14'05	
	14518 Oct 04 06:24	0°♒		direct	14519 Aug 27 00:40	26°♑41'33	
	14518 Oct 23 17:34	0°♓			14519 Sep 04 06:23	0°♑	
asc. node	14518 Oct 31 10:17	14°♓42'09		morning max el	14519 Sep 09 12:16	4°♑36'23	27°11'19
morning set	14518 Oct 31 13:41	14°♓59'19			14519 Sep 28 19:45	0°♒	
max. Earth dist.	14518 Nov 05 15:36	25°♓35'02	1.32044 AU	morning set	14519 Oct 15 00:35	28°♒17'09	
	14518 Nov 07 16:38	0°♈			14519 Oct 15 21:39	0°♓	
				asc. node	14519 Oct 18 06:56	4°♓45'26	
superior conj	14518 Nov 08 06:22	1°♈14'53	1°08'02	max. Earth dist.	14519 Oct 19 09:06	6°♓58'31	1.33334 AU
minimum elong	14518 Nov 08 04:04	1°♈02'19	1°08'32				
evening rise	14518 Nov 15 01:50	16°♈09'08		superior conj	14519 Oct 23 09:37	15°♓22'06	0°46'25
	14518 Nov 21 19:56	0°♉		minimum elong	14519 Oct 23 07:33	15°♓11'05	0°46'42

	14519 Oct 30 05:27	0°♊			14520 Oct 06 16:08	0°♎	
evening rise	14519 Oct 30 12:28	0°♊37'18		evening rise	14520 Oct 13 20:51	14°♎57'29	
	14519 Nov 16 00:14	0°♋			14520 Oct 21 12:05	0°♊	
desc. node	14519 Nov 19 21:29	4°♋31'23		evening max el	14520 Nov 01 10:28	15°♊36'30	20°35'33
evening max el	14519 Nov 20 13:29	5°♋11'30	22°06'10	desc. node	14520 Nov 05 18:45	19°♊06'07	
retrograde	14519 Dec 03 04:19	11°♋26'19		retrograde	14520 Nov 12 14:47	21°♊10'07	
evening set	14519 Dec 06 13:28	11°♋01'00		evening set	14520 Nov 14 22:23	20°♊56'53	
inferior conj	14519 Dec 15 04:33	7°♋07'45	-5°55'57	inferior conj	14520 Nov 23 20:15	17°♊02'29	-5°04'59
minimum elong	14519 Dec 15 01:13	7°♋12'25	5°54'41	minimum elong	14520 Nov 23 10:33	17°♊16'29	5°01'44
min. Earth dist.	14519 Dec 14 19:27	7°♋20'29	0.54546 AU	min. Earth dist.	14520 Nov 25 01:24	16°♊20'20	0.54619 AU
morning rise	14519 Dec 23 13:57	3°♋20'29		morning rise	14520 Dec 01 22:34	13°♊05'12	
direct	14519 Dec 27 01:01	2°♋53'53		direct	14520 Dec 06 09:19	12°♊22'45	
morning max el	14520 Jan 08 05:01	8°♋44'46	21°44'01	morning max el	14520 Dec 19 16:59	18°♊52'25	23°31'07
asc. node	14520 Jan 14 06:46	15°♋51'21			14520 Dec 28 19:36	0°♋	
	14520 Jan 22 19:55	0°♌		asc. node	14520 Dec 31 03:58	3°♋38'33	
morning set	14520 Jan 28 21:08	12°♌11'24		morning set	14521 Jan 12 08:54	26°♋56'46	
					14521 Jan 13 19:00	0°♌	
superior conj	14520 Feb 05 01:04	27°♌21'00	1°20'27	superior conj	14521 Jan 19 05:45	11°♌50'25	1°32'09
minimum elong	14520 Feb 05 03:23	27°♌33'06	1°20'51	minimum elong	14521 Jan 19 07:13	11°♌58'20	1°32'54
	14520 Feb 06 07:36	0°♍		max. Earth dist.	14521 Jan 22 03:29	18°♌03'30	1.33046 AU
max. Earth dist.	14520 Feb 09 07:59	6°♍09'40	1.34667 AU	evening rise	14521 Jan 26 23:43	28°♌00'58	
evening rise	14520 Feb 13 13:00	14°♍24'13			14521 Jan 27 23:46	0°♍	
desc. node	14520 Feb 15 21:46	18°♍50'24		desc. node	14521 Feb 01 18:22	9°♍03'22	
	14520 Feb 22 05:23	0°♎			14521 Feb 14 10:35	0°♎	
	14520 Mar 13 23:08	0°♏		evening max el	14521 Mar 02 05:39	19°♎38'55	27°24'03
evening max el	14520 Mar 19 16:21	6°♏11'10	26°45'39	retrograde	14521 Mar 15 21:05	27°♎07'55	
retrograde	14520 Apr 01 20:58	13°♏36'33		evening set	14521 Mar 22 14:59	24°♎38'53	
evening set	14520 Apr 08 07:32	11°♏04'28		min. Earth dist.	14521 Mar 26 11:03	21°♎10'04	0.64483 AU
asc. node	14520 Apr 11 03:22	8°♏23'30		inferior conj	14521 Mar 28 23:57	18°♎27'00	-0°00'41
min. Earth dist.	14520 Apr 12 07:49	7°♏03'54	0.66211 AU	minimum elong	14521 Mar 28 23:59	18°♎26'56	0°00'54
inferior conj	14520 Apr 14 08:43	4°♏39'50	0°59'32	transit middle	14521 Mar 28 23:59	18°♎26'56	0°00'54
minimum elong	14520 Apr 14 07:15	4°♏44'09	0°58'30	transit begin	14521 Mar 28 20:54	18°♎35'13	
	14520 Apr 18 21:14	30°♏♎		transit end	14521 Mar 29 03:03	18°♎18'40	
morning rise	14520 Apr 20 08:11	29°♎02'05		asc. node	14521 Mar 29 00:49	18°♎24'40	
direct	14520 Apr 23 07:13	28°♎13'39		morning rise	14521 Apr 04 10:59	13°♎03'14	
	14520 Apr 27 20:13	0°♏		direct	14521 Apr 07 01:02	12°♎28'52	
morning max el	14520 Apr 29 16:21	1°♏35'03	18°13'56	morning max el	14521 Apr 13 09:18	15°♎45'02	17°51'36
desc. node	14520 May 13 23:55	21°♏40'16			14521 Apr 23 16:28	0°♏	
morning set	14520 May 19 02:35	29°♏50'30		morning set	14521 Apr 30 14:22	11°♏28'11	
	14520 May 19 04:57	0°♐		desc. node	14521 Apr 30 20:38	11°♏54'22	
					14521 May 11 20:13	0°♐	
superior conj	14520 Jun 03 10:09	24°♐05'04	-2°01'32	superior conj	14521 May 14 04:41	3°♐46'51	-1°32'25
minimum elong	14520 Jun 03 02:35	23°♐35'29	2°02'06	minimum elong	14521 May 13 20:03	3°♐12'20	1°32'22
max. Earth dist.	14520 Jun 05 00:01	26°♐33'01	1.45893 AU	max. Earth dist.	14521 May 18 20:13	11°♐09'27	1.45356 AU
	14520 Jun 07 05:06	0°♑		evening rise	14521 May 30 01:01	28°♐31'45	
evening rise	14520 Jun 19 11:28	19°♑04'55			14521 May 31 00:06	0°♑	
	14520 Jun 26 12:18	0°♒		greatest brilliancy	14521 Jun 13 21:56	20°♑49'39	-0.6m
greatest brilliancy	14520 Jun 30 12:02	6°♒06'27	-0.7m		14521 Jun 20 12:46	0°♒	
asc. node	14520 Jul 08 01:43	16°♒59'46		asc. node	14521 Jun 24 22:37	5°♒17'21	
evening max el	14520 Jul 12 17:53	22°♒29'21	19°05'46	evening max el	14521 Jun 25 22:43	6°♒19'54	19°59'51
retrograde	14520 Jul 19 14:26	26°♒16'24		retrograde	14521 Jul 03 13:09	10°♒38'55	
evening set	14520 Jul 23 02:20	25°♒05'35		evening set	14521 Jul 07 10:53	9°♒10'52	
inferior conj	14520 Jul 28 13:32	19°♒18'14	2°55'29	inferior conj	14521 Jul 12 17:58	3°♒10'33	3°08'46
minimum elong	14520 Jul 28 15:07	19°♒13'07	2°54'29	minimum elong	14521 Jul 12 18:35	3°♒08'26	3°07'48
min. Earth dist.	14520 Jul 30 02:45	17°♒18'35	0.66753 AU	min. Earth dist.	14521 Jul 13 17:00	1°♒52'35	0.67983 AU
morning rise	14520 Aug 03 03:14	12°♒53'01			14521 Jul 15 03:22	30°♒♑	
direct	14520 Aug 09 06:30	10°♒15'08		morning rise	14521 Jul 18 01:56	26°♑47'00	
desc. node	14520 Aug 09 22:29	10°♒16'48		direct	14521 Jul 23 18:19	24°♑17'27	
morning max el	14520 Aug 21 23:27	17°♒49'24	26°05'39	desc. node	14521 Jul 27 19:53	25°♑20'10	
	14520 Sep 01 04:55	0°♒			14521 Aug 03 02:58	0°♒	
	14520 Sep 20 19:05	0°♓		morning max el	14521 Aug 04 10:14	1°♒16'40	24°43'21
morning set	14520 Sep 26 22:30	10°♓58'06			14521 Aug 26 04:15	0°♒	
max. Earth dist.	14520 Sep 30 16:55	18°♓05'53	1.35136 AU	morning set	14521 Sep 09 03:26	22°♒53'07	
asc. node	14520 Oct 04 03:32	24°♓52'50		max. Earth dist.	14521 Sep 12 17:11	29°♒16'41	1.37328 AU
					14521 Sep 13 02:40	0°♓	
superior conj	14520 Oct 06 05:27	29°♓05'24	0°19'15				
minimum elong	14520 Oct 06 04:22	28°♓59'52	0°19'27				

superior conj	14521 Sep 19 14:44	12°♄17'18	-0°12'46	morning set	14522 Aug 21 10:56	3°♄51'54	
minimum elong	14521 Sep 19 15:33	12°♄21'20	0°12'29	max. Earth dist.	14522 Aug 25 15:25	10°♄57'54	1.39694 AU
behind sun begin	14521 Sep 19 11:18	12°♄00'38					
behind sun end	14521 Sep 19 19:49	12°♄42'04		superior conj	14522 Sep 02 09:36	24°♄49'07	-0°47'56
asc. node	14521 Sep 21 00:08	15°♄00'50		minimum elong	14522 Sep 02 13:10	25°♄05'38	0°47'32
evening rise	14521 Sep 28 00:41	29°♄03'59			14522 Sep 05 04:16	0°♄	
	14521 Sep 28 11:52	0°♄		asc. node	14522 Sep 07 20:43	5°♄06'05	
evening max el	14521 Oct 14 21:45	26°♄48'24	19°25'12	evening rise	14522 Sep 11 21:05	12°♄49'31	
	14521 Oct 18 22:21	0°♄			14522 Sep 21 07:12	0°♄	
desc. node	14521 Oct 23 16:07	1°♄33'18		evening max el	14522 Sep 27 21:58	8°♄49'27	18°37'02
retrograde	14521 Oct 24 10:47	1°♄35'08		retrograde	14522 Oct 06 00:27	12°♄54'55	
evening set	14521 Oct 26 07:54	1°♄24'49		evening set	14522 Oct 07 22:52	12°♄41'43	
	14521 Oct 30 09:27	30°♄		desc. node	14522 Oct 10 13:32	11°♄45'31	
inferior conj	14521 Nov 03 23:13	27°♄17'28	-3°30'08	inferior conj	14522 Oct 15 22:23	8°♄14'59	-1°42'49
minimum elong	14521 Nov 03 14:31	27°♄31'36	3°26'16	minimum elong	14522 Oct 15 18:13	8°♄22'50	1°40'36
min. Earth dist.	14521 Nov 06 10:48	25°♄40'56	0.55604 AU	min. Earth dist.	14522 Oct 19 02:20	5°♄52'09	0.57325 AU
morning rise	14521 Nov 11 18:57	22°♄50'48		morning rise	14522 Oct 23 10:09	3°♄10'58	
direct	14521 Nov 17 02:46	21°♄46'46		direct	14522 Oct 29 10:55	1°♄40'28	
morning max el	14521 Dec 01 02:33	28°♄49'10	25°18'25	morning max el	14522 Nov 12 17:15	9°♄08'45	26°46'53
	14521 Dec 02 07:19	0°♄			14522 Nov 28 12:50	0°♄	
asc. node	14521 Dec 18 01:06	22°♄10'59		asc. node	14522 Dec 04 22:06	11°♄17'05	
	14521 Dec 22 05:20	0°♄		morning set	14522 Dec 12 06:38	26°♄10'28	
morning set	14521 Dec 27 20:38	11°♄37'57			14522 Dec 14 01:02	0°♄	
superior conj	14522 Jan 03 14:44	26°♄29'05	1°37'32	superior conj	14522 Dec 19 01:58	11°♄11'12	1°36'52
minimum elong	14522 Jan 03 15:09	26°♄31'22	1°38'31	minimum elong	14522 Dec 19 01:19	11°♄07'34	1°37'53
max. Earth dist.	14522 Jan 05 05:54	0°♄04'39	1.31891 AU	max. Earth dist.	14522 Dec 19 12:49	12°♄11'51	1.31247 AU
	14522 Jan 05 05:03	0°♄		evening rise	14522 Dec 25 22:50	26°♄15'01	
evening rise	14522 Jan 10 19:50	11°♄59'53			14522 Dec 27 17:49	0°♄	
desc. node	14522 Jan 19 15:03	28°♄58'51		desc. node	14523 Jan 06 11:49	18°♄29'53	
	14522 Jan 20 04:48	0°♄			14523 Jan 13 17:28	0°♄	
	14522 Feb 10 02:54	0°♄		evening max el	14523 Jan 25 22:20	14°♄50'05	27°10'59
evening max el	14522 Feb 12 16:23	2°♄35'36	27°34'12	retrograde	14523 Feb 08 22:16	22°♄06'45	
retrograde	14522 Feb 26 13:55	10°♄01'04		evening set	14523 Feb 15 16:15	20°♄06'45	
evening set	14522 Mar 05 10:56	7°♄42'28		min. Earth dist.	14523 Feb 19 12:48	17°♄23'11	0.60265 AU
min. Earth dist.	14522 Mar 09 05:01	4°♄40'27	0.62456 AU	inferior conj	14523 Feb 22 17:18	14°♄42'48	-2°35'51
inferior conj	14522 Mar 12 03:59	1°♄50'53	-1°13'10	minimum elong	14523 Feb 22 23:01	14°♄30'46	2°33'17
minimum elong	14522 Mar 12 06:28	1°♄44'55	1°12'05	morning rise	14523 Mar 02 09:06	9°♄55'01	
	14522 Mar 14 03:43	30°♄		asc. node	14523 Mar 02 19:46	9°♄48'39	
asc. node	14522 Mar 15 22:19	28°♄32'52		direct	14523 Mar 04 10:25	9°♄38'19	
morning rise	14522 Mar 19 04:51	26°♄43'49		morning max el	14523 Mar 11 17:59	13°♄17'40	18°00'18
direct	14522 Mar 21 11:22	26°♄20'08			14523 Mar 23 01:13	0°♄	
morning max el	14522 Mar 28 02:59	29°♄42'27	17°46'44	morning set	14523 Mar 27 07:37	7°♄47'02	
	14522 Mar 28 10:02	0°♄		desc. node	14523 Apr 04 13:50	22°♄50'40	
morning set	14522 Apr 13 02:03	24°♄12'54					
	14522 Apr 16 09:17	0°♄		superior conj	14523 Apr 06 12:32	26°♄17'29	-0°15'38
desc. node	14522 Apr 17 17:15	2°♄19'08		minimum elong	14523 Apr 06 11:11	26°♄11'34	0°15'46
				behind sun begin	14523 Apr 06 09:58	26°♄06'10	
superior conj	14522 Apr 24 20:43	14°♄29'31	-0°54'33	behind sun end	14523 Apr 06 12:25	26°♄16'58	
minimum elong	14522 Apr 24 15:27	14°♄07'31	0°54'24		14523 Apr 08 15:33	0°♄	
max. Earth dist.	14522 May 01 13:17	25°♄26'39	1.44130 AU	max. Earth dist.	14523 Apr 14 01:51	9°♄11'55	1.42354 AU
	14522 May 04 09:52	0°♄		evening rise	14523 Apr 19 15:39	18°♄15'28	
evening rise	14522 May 09 13:31	8°♄03'10			14523 Apr 27 05:08	0°♄	
	14522 May 24 05:53	0°♄			14523 May 18 22:32	0°♄	
evening max el	14522 Jun 08 21:32	20°♄10'27	21°07'30	evening max el	14523 May 22 15:18	4°♄01'36	22°24'42
asc. node	14522 Jun 11 19:37	22°♄46'45		asc. node	14523 May 29 16:42	9°♄12'57	
retrograde	14522 Jun 17 12:07	25°♄10'26		retrograde	14523 Jun 01 09:37	9°♄45'40	
evening set	14522 Jun 21 20:21	23°♄25'29		evening set	14523 Jun 06 04:59	7°♄45'02	
inferior conj	14522 Jun 27 02:05	17°♄13'51	3°10'00	inferior conj	14523 Jun 11 11:46	1°♄24'02	3°00'23
minimum elong	14522 Jun 27 01:43	17°♄15'07	3°08'58	minimum elong	14523 Jun 11 10:31	1°♄28'21	2°59'12
min. Earth dist.	14522 Jun 27 11:34	16°♄40'52	0.68738 AU	min. Earth dist.	14523 Jun 11 08:12	1°♄36'28	0.69016 AU
morning rise	14522 Jul 02 06:50	10°♄54'54			14523 Jun 12 12:00	30°♄	
direct	14522 Jul 07 11:03	8°♄39'40		morning rise	14523 Jun 16 15:54	25°♄11'43	
desc. node	14522 Jul 14 17:12	11°♄57'48		direct	14523 Jun 21 07:36	23°♄14'44	
morning max el	14522 Jul 17 21:12	14°♄51'48	23°14'07	morning max el	14523 Jun 30 10:50	28°♄34'33	21°46'47
	14522 Jul 30 05:32	0°♄		desc. node	14523 Jul 01 14:25	29°♄45'53	
	14522 Aug 19 02:43	0°♄			14523 Jul 01 19:41	0°♄	

	14523 Jul 23 20:40	0°♎		morning max el	14524 Jun 12 06:16	12°♐28'10	20°28'28
morning set	14523 Aug 01 17:49	13°♎46'12		desc. node	14524 Jun 17 11:32	18°♐25'59	
max. Earth dist.	14523 Aug 07 17:37	23°♎29'18	1.41970 AU		14524 Jun 25 22:32	0°♐	
	14523 Aug 11 14:53	0°♐		morning set	14524 Jul 11 03:19	22°♐46'32	
					14524 Jul 15 18:32	0°♎	
superior conj	14523 Aug 15 09:35	6°♐30'17	-1°23'12	max. Earth dist.	14524 Jul 20 02:54	6°♎54'28	1.43884 AU
minimum elong	14523 Aug 15 16:00	6°♐58'20	1°22'52				
asc. node	14523 Aug 25 17:17	25°♐04'15		superior conj	14524 Jul 26 10:49	17°♎13'04	-1°53'24
evening rise	14523 Aug 26 06:14	26°♐03'44		minimum elong	14524 Jul 26 18:12	17°♎43'37	1°53'34
	14523 Aug 28 09:48	0°♐			14524 Aug 03 00:35	0°♐	
evening max el	14523 Sep 11 06:58	21°♐30'12	18°09'53	evening rise	14524 Aug 07 23:28	8°♐35'20	
retrograde	14523 Sep 18 08:51	25°♐06'53		asc. node	14524 Aug 11 13:52	14°♐51'32	
evening set	14523 Sep 20 13:46	24°♐46'22			14524 Aug 20 23:07	0°♐	
desc. node	14523 Sep 27 11:01	20°♐16'22		evening max el	14524 Aug 24 20:34	4°♐40'29	18°02'17
inferior conj	14523 Sep 27 19:07	19°♐58'33	-0°06'21	retrograde	14524 Aug 31 08:46	8°♐02'45	
minimum elong	14523 Sep 27 18:54	19°♐59'01	0°06'01	evening set	14524 Sep 02 21:43	7°♐31'18	
transit middle	14523 Sep 27 18:54	19°♐59'01	0°06'01	inferior conj	14524 Sep 09 10:46	2°♐23'53	1°09'48
transit begin	14523 Sep 27 15:45	20°♐05'57		minimum elong	14524 Sep 09 12:39	2°♐19'07	1°09'06
transit end	14523 Sep 27 22:03	19°♐52'03			14524 Sep 11 19:38	30°♐	
min. Earth dist.	14523 Oct 01 01:37	17°♐06'43	0.59490 AU	min. Earth dist.	14524 Sep 12 10:14	29°♐24'16	0.61784 AU
morning rise	14523 Oct 04 20:42	14°♐20'46		desc. node	14524 Sep 13 08:30	28°♐31'55	
direct	14523 Oct 11 08:32	12°♐23'29		morning rise	14524 Sep 16 01:00	26°♐21'11	
morning max el	14523 Oct 25 15:37	20°♐10'09	27°42'18	direct	14524 Sep 22 17:10	24°♐01'48	
	14523 Nov 03 02:35	0°♐			14524 Oct 04 18:14	0°♐	
	14523 Nov 21 09:23	0°♐		morning max el	14524 Oct 06 20:54	1°♐59'26	27°58'47
asc. node	14523 Nov 21 19:00	0°♐47'05			14524 Oct 27 11:12	0°♐	
morning set	14523 Nov 26 13:00	10°♐28'35		asc. node	14524 Nov 07 15:49	20°♐34'17	
max. Earth dist.	14523 Dec 02 20:49	24°♐17'18	1.31134 AU	morning set	14524 Nov 09 13:47	24°♐27'53	
					14524 Nov 12 05:10	0°♐	
superior conj	14523 Dec 03 13:26	25°♐50'04	1°30'18	max. Earth dist.	14524 Nov 15 02:11	6°♐12'40	1.31560 AU
minimum elong	14523 Dec 03 11:52	25°♐41'22	1°31'11				
	14523 Dec 05 10:09	0°♐		superior conj	14524 Nov 16 23:19	10°♐20'48	1°17'51
evening rise	14523 Dec 10 06:25	10°♐39'48		minimum elong	14524 Nov 16 21:09	10°♐08'53	1°18'31
	14523 Dec 20 00:02	0°♐		evening rise	14524 Nov 23 16:38	25°♐09'36	
desc. node	14523 Dec 24 08:40	7°♐26'14			14524 Nov 25 23:09	0°♐	
evening max el	14524 Jan 07 21:00	26°♐13'03	26°13'07	desc. node	14524 Dec 10 05:38	25°♐35'22	
	14524 Jan 12 12:13	0°♐			14524 Dec 13 10:56	0°♐	
retrograde	14524 Jan 21 19:59	3°♐18'03		evening max el	14524 Dec 19 11:16	6°♐45'13	24°46'08
evening set	14524 Jan 28 03:04	1°♐43'34		retrograde	14525 Jan 02 05:06	13°♐37'09	
	14524 Jan 31 02:56	30°♐		evening set	14525 Jan 07 15:35	12°♐31'41	
min. Earth dist.	14524 Feb 01 10:24	29°♐06'31	0.58100 AU	min. Earth dist.	14525 Jan 12 23:07	9°♐45'05	0.56224 AU
inferior conj	14524 Feb 04 12:14	26°♐52'19	-4°02'09	inferior conj	14525 Jan 15 10:19	8°♐11'26	-5°17'17
minimum elong	14524 Feb 04 20:49	26°♐36'40	3°58'46	minimum elong	14525 Jan 15 18:38	7°♐58'15	5°14'44
morning rise	14524 Feb 12 17:35	22°♐25'50		morning rise	14525 Jan 23 23:51	4°♐06'20	
direct	14524 Feb 14 17:55	22°♐12'23		direct	14525 Jan 26 06:26	3°♐52'06	
asc. node	14524 Feb 17 17:12	22°♐43'12		asc. node	14525 Feb 03 14:36	7°♐19'23	
morning max el	14524 Feb 23 02:25	26°♐19'01	18°34'02	morning max el	14525 Feb 05 00:09	8°♐35'05	19°29'54
	14524 Feb 26 07:26	0°♐			14525 Feb 18 22:51	0°♐	
morning set	14524 Mar 10 01:44	21°♐54'35		morning set	14525 Feb 22 04:17	6°♐23'06	
	14524 Mar 14 06:27	0°♐					
superior conj	14524 Mar 19 01:03	9°♐01'39	0°19'28	superior conj	14525 Mar 02 05:44	22°♐29'19	0°48'29
minimum elong	14524 Mar 19 02:22	9°♐07'47	0°19'11	minimum elong	14525 Mar 02 08:15	22°♐41'36	0°48'19
desc. node	14524 Mar 21 10:22	13°♐25'05			14525 Mar 06 03:36	0°♐	
max. Earth dist.	14524 Mar 26 10:21	22°♐17'58	1.40211 AU	desc. node	14525 Mar 08 06:52	3°♐58'33	
evening rise	14524 Mar 30 14:19	29°♐22'58		max. Earth dist.	14525 Mar 08 16:52	4°♐44'28	1.37937 AU
	14524 Mar 30 23:13	0°♐		evening rise	14525 Mar 12 09:44	11°♐23'05	
	14524 Apr 19 16:00	0°♐			14525 Mar 23 16:14	0°♐	
evening max el	14524 May 04 06:00	17°♐54'45	23°45'53	evening max el	14525 Apr 15 01:10	0°♐	
retrograde	14524 May 15 04:12	24°♐19'41		retrograde	14525 Apr 16 19:31	1°♐48'23	25°04'28
asc. node	14524 May 15 13:51	24°♐18'58			14525 Apr 28 18:51	8°♐45'59	
evening set	14524 May 20 11:13	22°♐05'17		asc. node	14525 May 02 11:06	7°♐48'29	
min. Earth dist.	14524 May 25 04:45	16°♐33'36	0.68818 AU	evening set	14525 May 04 13:27	6°♐20'54	
inferior conj	14524 May 25 21:07	15°♐37'40	2°40'26	min. Earth dist.	14525 May 08 23:05	1°♐25'46	0.68153 AU
minimum elong	14524 May 25 19:14	15°♐44'06	2°39'05	inferior conj	14525 May 10 04:12	29°♐50'15	2°10'03
morning rise	14524 May 31 03:13	9°♐33'23		minimum elong	14525 May 10 02:02	29°♐57'21	2°08'37
direct	14524 Jun 04 06:35	7°♐56'38			14525 May 10 01:14	30°♐	
				morning rise	14525 May 15 14:57	23°♐55'17	

direct	14525 May 19 06:34	22°♄38'48		morning max el	14526 May 09 19:09	10°♄45'14	18°34'32
morning max el	14525 May 26 09:10	26°♄32'53	19°23'36	desc. node	14526 May 22 05:24	27°♄29'15	
	14525 May 29 12:33	0°♄			14526 May 23 20:30	0°♄	
desc. node	14525 Jun 04 08:31	7°♄43'47		morning set	14526 May 30 22:58	11°♄06'24	
greatest brilliancy	14525 Jun 08 01:07	13°♄04'33	-0.7m		14526 Jun 12 00:48	0°♄	
	14525 Jun 19 05:34	0°♄					
morning set	14525 Jun 20 06:02	1°♄33'58		superior conj	14526 Jun 15 23:13	6°♄08'14	-2°10'59
max. Earth dist.	14525 Jul 02 18:21	21°♄00'21	1.45225 AU	minimum elong	14526 Jun 15 19:09	5°♄52'23	2°11'55
				max. Earth dist.	14526 Jun 15 13:16	5°♄29'24	1.45865 AU
superior conj	14525 Jul 06 12:48	26°♄57'57	-2°11'30		14526 Jul 01 03:36	0°♄	
minimum elong	14525 Jul 06 16:24	27°♄12'19	2°12'21	evening rise	14526 Jul 01 15:07	0°♄45'40	
	14525 Jul 08 10:28	0°♄		greatest brilliancy	14526 Jul 09 13:08	13°♄17'19	-0.8m
evening rise	14525 Jul 20 19:36	20°♄11'30		asc. node	14526 Jul 16 07:11	23°♄31'37	
	14525 Jul 26 17:49	0°♄			14526 Jul 21 05:32	0°♄	
asc. node	14525 Jul 29 10:29	4°♄22'35		evening max el	14526 Jul 22 23:26	1°♄52'41	18°41'43
evening max el	14525 Aug 08 11:03	18°♄10'22	18°13'10	retrograde	14526 Jul 29 13:23	5°♄27'08	
retrograde	14525 Aug 14 19:37	21°♄32'10		evening set	14526 Aug 01 19:46	4°♄26'12	
evening set	14525 Aug 17 17:05	20°♄46'58			14526 Aug 06 10:48	30°♄	
inferior conj	14525 Aug 23 17:15	15°♄22'28	2°04'59	inferior conj	14526 Aug 07 10:44	28°♄46'45	2°41'38
minimum elong	14525 Aug 23 19:40	15°♄15'34	2°03'57	minimum elong	14526 Aug 07 12:46	28°♄40'26	2°40'35
min. Earth dist.	14525 Aug 26 04:44	12°♄34'37	0.63956 AU	min. Earth dist.	14526 Aug 09 08:16	26°♄26'06	0.65842 AU
morning rise	14525 Aug 29 20:35	9°♄04'37		morning rise	14526 Aug 13 04:46	22°♄22'11	
desc. node	14525 Aug 31 06:02	8°♄06'00		desc. node	14526 Aug 18 03:32	19°♄50'17	
direct	14525 Sep 05 11:06	6°♄30'49		direct	14526 Aug 19 13:07	19°♄43'00	
morning max el	14525 Sep 19 06:37	14°♄30'32	27°37'57	morning max el	14526 Sep 01 17:57	27°♄31'46	26°46'02
	14525 Oct 01 21:12	0°♄			14526 Sep 04 01:59	0°♄	
	14525 Oct 20 02:44	0°♄			14526 Sep 25 13:56	0°♄	
morning set	14525 Oct 24 06:35	8°♄02'43		morning set	14526 Oct 07 12:26	21°♄05'35	
asc. node	14525 Oct 25 12:32	10°♄32'53		max. Earth dist.	14526 Oct 11 14:27	29°♄03'59	1.34035 AU
max. Earth dist.	14525 Oct 29 01:08	17°♄49'35	1.32527 AU	asc. node	14526 Oct 12 09:11	0°♄37'59	
					14526 Oct 12 01:38	0°♄	
superior conj	14525 Nov 01 05:37	24°♄37'57	0°59'34				
minimum elong	14525 Nov 01 03:20	24°♄25'35	0°59'58	superior conj	14526 Oct 16 06:02	8°♄35'08	0°35'32
	14525 Nov 03 16:54	0°♄		minimum elong	14526 Oct 16 04:16	8°♄25'57	0°35'46
evening rise	14525 Nov 08 03:39	9°♄39'35		evening rise	14526 Oct 23 13:34	24°♄04'20	
	14525 Nov 18 12:07	0°♄			14526 Oct 26 10:03	0°♄	
desc. node	14525 Nov 27 02:42	12°♄40'08		evening max el	14526 Nov 12 11:12	26°♄52'05	21°25'34
evening max el	14525 Nov 30 20:55	16°♄46'10	23°04'20	desc. node	14526 Nov 13 23:54	28°♄17'02	
retrograde	14525 Dec 14 01:38	23°♄19'13			14526 Nov 16 04:56	0°♄	
evening set	14525 Dec 18 05:44	22°♄41'24		retrograde	14526 Nov 24 13:09	2°♄51'28	
min. Earth dist.	14525 Dec 25 06:25	19°♄25'48	0.54923 AU	evening set	14526 Nov 27 09:29	2°♄32'49	
inferior conj	14525 Dec 26 13:05	18°♄41'50	-5°57'43		14526 Dec 03 19:15	30°♄	
minimum elong	14525 Dec 26 15:10	18°♄38'51	5°56'38	inferior conj	14526 Dec 06 04:50	28°♄40'33	-5°41'28
morning rise	14526 Jan 04 02:05	14°♄52'11		minimum elong	14526 Dec 05 21:59	28°♄50'11	5°39'28
direct	14526 Jan 07 00:15	14°♄32'07		min. Earth dist.	14526 Dec 06 12:16	28°♄30'07	0.54451 AU
morning max el	14526 Jan 18 07:56	19°♄57'44	20°48'58	morning rise	14526 Dec 14 11:07	24°♄51'23	
asc. node	14526 Jan 21 11:57	23°♄24'05		direct	14526 Dec 18 07:59	24°♄18'56	
	14526 Jan 26 05:48	0°♄			14526 Dec 30 13:49	0°♄	
morning set	14526 Feb 06 12:15	21°♄03'43		morning max el	14526 Dec 31 01:42	0°♄27'39	22°28'26
	14526 Feb 10 19:10	0°♄		asc. node	14527 Jan 08 09:15	10°♄38'34	
					14527 Jan 19 04:18	0°♄	
superior conj	14526 Feb 13 22:26	6°♄29'02	1°10'43	morning set	14527 Jan 21 23:11	5°♄48'37	
minimum elong	14526 Feb 14 01:02	6°♄42'20	1°10'53				
max. Earth dist.	14526 Feb 19 01:23	16°♄43'09	1.35775 AU	superior conj	14527 Jan 28 23:34	20°♄49'48	1°26'11
evening rise	14526 Feb 22 23:13	24°♄08'20		minimum elong	14527 Jan 29 01:33	21°♄00'23	1°26'45
desc. node	14526 Feb 23 03:23	24°♄27'38		max. Earth dist.	14527 Feb 01 16:01	28°♄32'39	1.33921 AU
	14526 Feb 26 04:45	0°♄			14527 Feb 02 09:05	0°♄	
	14526 Mar 17 07:04	0°♄		evening rise	14527 Feb 06 03:09	7°♄28'38	
evening max el	14526 Mar 30 09:03	15°♄38'30	26°13'15	desc. node	14527 Feb 09 23:57	14°♄47'33	
retrograde	14526 Apr 12 04:44	22°♄57'45			14527 Feb 18 19:26	0°♄	
evening set	14526 Apr 18 09:59	20°♄26'22		evening max el	14527 Mar 12 22:41	29°♄17'02	27°04'56
asc. node	14526 Apr 19 08:27	19°♄36'48			14527 Mar 13 16:46	0°♄	
min. Earth dist.	14526 Apr 22 13:12	16°♄06'34	0.67042 AU	retrograde	14527 Mar 26 08:53	6°♄45'57	
inferior conj	14526 Apr 24 07:02	13°♄57'38	1°28'41	evening set	14527 Apr 01 22:52	4°♄14'12	
minimum elong	14526 Apr 24 05:07	14°♄03'33	1°27'24	min. Earth dist.	14527 Apr 05 21:05	0°♄27'30	0.65518 AU
morning rise	14526 Apr 30 01:06	8°♄13'15		asc. node	14527 Apr 06 05:54	0°♄02'56	
direct	14526 May 03 05:48	7°♄15'27			14527 Apr 06 06:57	30°♄	

inferior conj	14527 Apr 08 03:16	27° $\Upsilon$ 53'45	0°35'32	inferior conj	14528 Mar 21 14:09	11° $\Upsilon$ 32'01	-0°29'59
minimum elong	14527 Apr 08 02:19	27° $\Upsilon$ 56'26	0°34'46	minimum elong	14528 Mar 21 15:06	11° $\Upsilon$ 29'34	0°29'42
morning rise	14527 Apr 14 07:22	22° $\Upsilon$ 21'42		asc. node	14528 Mar 23 03:23	9° $\Upsilon$ 58'27	
direct	14527 Apr 17 02:18	21° $\Upsilon$ 39'49		morning rise	14528 Mar 28 06:49	6° $\Upsilon$ 14'41	
morning max el	14527 Apr 23 10:15	24° $\Upsilon$ 57'52	18°02'15	direct	14528 Mar 30 17:23	5° $\Upsilon$ 45'20	
	14527 Apr 27 16:52	0° $\text{♄}$		morning max el	14528 Apr 06 03:50	9° $\Upsilon$ 03'03	17°47'14
desc. node	14527 May 09 02:11	17° $\text{♄}$ 34'22			14528 Apr 20 07:49	0° $\text{♄}$	
morning set	14527 May 11 18:45	21° $\text{♄}$ 57'23		morning set	14528 Apr 22 17:26	4° $\text{♄}$ 05'40	
	14527 May 16 17:38	0° $\text{♂}$		desc. node	14528 Apr 24 22:51	7° $\text{♄}$ 53'21	
superior conj	14527 May 26 09:59	15° $\text{♂}$ 26'15	-1°50'49	superior conj	14528 May 05 12:46	25° $\text{♄}$ 31'22	-1°16'54
minimum elong	14527 May 26 01:11	14° $\text{♂}$ 51'35	1°51'04	minimum elong	14528 May 05 05:17	25° $\text{♄}$ 00'53	1°16'44
max. Earth dist.	14527 May 29 09:11	20° $\text{♂}$ 05'34	1.45752 AU		14528 May 08 07:15	0° $\text{♂}$	
	14527 Jun 04 17:57	0° $\text{♄}$		max. Earth dist.	14528 May 11 04:11	4° $\text{♂}$ 35'02	1.44916 AU
evening rise	14527 Jun 11 12:28	10° $\text{♄}$ 27'39		evening rise	14528 May 20 23:26	19° $\text{♂}$ 50'53	
	14527 Jun 24 08:33	0° $\text{♂}$			14528 May 27 16:09	0° $\text{♄}$	
greatest brilliancy	14527 Jun 24 12:58	0° $\text{♂}$ 16'20	-0.7m	evening max el	14528 Jun 18 09:52	29° $\text{♄}$ 32'53	20°27'17
asc. node	14527 Jul 03 04:01	12° $\text{♂}$ 10'58			14528 Jun 18 20:54	0° $\text{♂}$	
evening max el	14527 Jul 06 07:30	15° $\text{♂}$ 41'51	19°27'00	asc. node	14528 Jun 19 00:56	0° $\text{♂}$ 09'41	
retrograde	14527 Jul 13 10:56	19° $\text{♂}$ 41'20		retrograde	14528 Jun 26 09:51	4° $\text{♂}$ 08'05	
evening set	14527 Jul 17 02:51	18° $\text{♂}$ 23'25		evening set	14528 Jun 30 12:00	2° $\text{♂}$ 32'49	
inferior conj	14527 Jul 22 11:58	12° $\text{♂}$ 30'34	3°02'41		14528 Jul 03 01:15	30° $\text{♄}$	
minimum elong	14527 Jul 22 13:09	12° $\text{♂}$ 26'37	3°01'42	inferior conj	14528 Jul 05 18:13	26° $\text{♄}$ 27'44	3°10'39
min. Earth dist.	14527 Jul 23 19:12	10° $\text{♂}$ 47'38	0.67331 AU	minimum elong	14528 Jul 05 18:25	26° $\text{♄}$ 27'04	3°09'40
morning rise	14527 Jul 27 22:54	6° $\text{♂}$ 05'27		min. Earth dist.	14528 Jul 06 11:28	25° $\text{♄}$ 28'34	0.68367 AU
direct	14527 Aug 02 21:50	3° $\text{♂}$ 29'55		morning rise	14528 Jul 11 00:31	20° $\text{♄}$ 06'01	
desc. node	14527 Aug 05 01:00	3° $\text{♂}$ 47'10		direct	14528 Jul 16 11:57	17° $\text{♄}$ 41'44	
morning max el	14527 Aug 15 04:54	10° $\text{♂}$ 51'36	25°32'01	desc. node	14528 Jul 21 22:23	19° $\text{♄}$ 33'39	
	14527 Aug 30 11:07	0° $\text{♄}$		morning max el	14528 Jul 27 15:18	24° $\text{♄}$ 21'34	24°05'37
	14527 Sep 18 05:08	0° $\text{♂}$			14528 Aug 01 16:38	0° $\text{♂}$	
morning set	14527 Sep 20 03:41	3° $\text{♂}$ 28'31			14528 Aug 22 21:11	0° $\text{♄}$	
max. Earth dist.	14527 Sep 23 18:09	10° $\text{♂}$ 07'56	1.36025 AU	morning set	14528 Aug 31 23:55	15° $\text{♄}$ 00'16	
asc. node	14527 Sep 29 05:47	20° $\text{♂}$ 46'07		max. Earth dist.	14528 Sep 04 16:40	21° $\text{♄}$ 28'00	1.38334 AU
					14528 Sep 09 09:14	0° $\text{♂}$	
superior conj	14527 Sep 29 21:50	22° $\text{♂}$ 06'17	0°06'12	superior conj	14528 Sep 12 01:28	5° $\text{♄}$ 02'20	-0°27'26
minimum elong	14527 Sep 29 21:27	22° $\text{♂}$ 04'21	0°06'26	minimum elong	14528 Sep 12 03:23	5° $\text{♄}$ 11'27	0°27'06
behind sun begin	14527 Sep 29 15:39	21° $\text{♄}$ 35'22		asc. node	14528 Sep 15 02:19	10° $\text{♄}$ 53'13	
behind sun end	14527 Sep 30 03:14	22° $\text{♄}$ 33'23		evening rise	14528 Sep 20 21:22	22° $\text{♄}$ 17'34	
	14527 Oct 03 19:11	0° $\text{♄}$			14528 Sep 24 20:22	0° $\text{♄}$	
evening rise	14527 Oct 07 20:21	8° $\text{♄}$ 19'20		evening max el	14528 Oct 07 07:28	19° $\text{♄}$ 09'25	19°02'00
	14527 Oct 19 13:51	0° $\text{♄}$		retrograde	14528 Oct 16 04:25	23° $\text{♄}$ 36'55	
evening max el	14527 Oct 25 14:15	7° $\text{♄}$ 36'12	20°03'01	desc. node	14528 Oct 17 18:36	23° $\text{♄}$ 28'52	
desc. node	14527 Oct 31 21:13	12° $\text{♄}$ 00'12		evening set	14528 Oct 18 01:20	23° $\text{♄}$ 25'49	
retrograde	14527 Nov 05 01:47	12° $\text{♄}$ 49'23		inferior conj	14528 Oct 26 10:36	19° $\text{♄}$ 10'36	-2°44'20
evening set	14527 Nov 07 03:03	12° $\text{♄}$ 38'19		minimum elong	14528 Oct 26 03:42	19° $\text{♄}$ 22'31	2°41'00
inferior conj	14527 Nov 15 23:46	8° $\text{♄}$ 40'06	-4°28'19	min. Earth dist.	14528 Oct 29 06:59	17° $\text{♄}$ 12'57	0.56270 AU
minimum elong	14527 Nov 15 13:42	8° $\text{♄}$ 55'16	4°24'27	morning rise	14528 Nov 03 03:17	14° $\text{♄}$ 28'39	
min. Earth dist.	14527 Nov 17 19:37	7° $\text{♄}$ 34'05	0.54931 AU	direct	14528 Nov 08 19:13	13° $\text{♄}$ 13'41	
morning rise	14527 Nov 23 23:14	4° $\text{♄}$ 31'57		morning max el	14528 Nov 22 22:11	20° $\text{♄}$ 27'07	25°59'25
direct	14527 Nov 28 19:35	3° $\text{♄}$ 40'44			14528 Dec 01 03:19	0° $\text{♄}$	
morning max el	14527 Dec 12 11:23	10° $\text{♄}$ 25'45	24°17'48	asc. node	14528 Dec 12 03:31	17° $\text{♄}$ 34'09	
asc. node	14527 Dec 26 06:27	28° $\text{♄}$ 46'29			14528 Dec 18 11:46	0° $\text{♄}$	
	14527 Dec 26 23:39	0° $\text{♄}$		morning set	14528 Dec 20 22:20	5° $\text{♄}$ 09'49	
morning set	14528 Jan 06 11:09	20° $\text{♄}$ 32'17					
	14528 Jan 10 19:20	0° $\text{♄}$		superior conj	14528 Dec 27 16:30	20° $\text{♄}$ 03'50	1°37'59
superior conj	14528 Jan 13 06:21	5° $\text{♄}$ 23'39	1°35'10	minimum elong	14528 Dec 27 16:27	20° $\text{♄}$ 03'35	1°38'59
minimum elong	14528 Jan 13 07:23	5° $\text{♄}$ 29'17	1°36'03	max. Earth dist.	14528 Dec 28 19:21	22° $\text{♄}$ 32'56	1.31556 AU
max. Earth dist.	14528 Jan 15 14:31	10° $\text{♄}$ 28'19	1.32496 AU		14529 Jan 01 05:00	0° $\text{♄}$	
evening rise	14528 Jan 20 18:14	21° $\text{♄}$ 15'37		evening rise	14529 Jan 03 17:34	5° $\text{♄}$ 21'53	
	14528 Jan 25 05:14	0° $\text{♄}$		desc. node	14529 Jan 13 17:17	24° $\text{♄}$ 39'30	
desc. node	14528 Jan 27 20:34	4° $\text{♄}$ 53'33			14529 Jan 16 20:11	0° $\text{♄}$	
	14528 Feb 12 17:15	0° $\text{♄}$		evening max el	14529 Feb 04 20:34	25° $\text{♄}$ 14'22	27°28'42
evening max el	14528 Feb 23 11:18	12° $\text{♄}$ 33'27	27°32'13		14529 Feb 10 20:44	0° $\text{♄}$	
retrograde	14528 Mar 08 06:08	20° $\text{♄}$ 01'40		retrograde	14529 Feb 18 19:17	2° $\text{♄}$ 35'39	
evening set	14528 Mar 15 01:46	17° $\text{♄}$ 36'26		evening set	14529 Feb 25 15:54	0° $\text{♄}$ 24'18	
min. Earth dist.	14528 Mar 18 20:44	14° $\text{♄}$ 19'26	0.63650 AU		14529 Feb 26 06:44	30° $\text{♄}$	

min. Earth dist.	14529 Mar 01 10:28	27° $\text{H}$ 31'17	0.61534 AU	min. Earth dist.	14530 Feb 11 13:30	9° $\text{H}$ 49'53	0.59323 AU
inferior conj	14529 Mar 04 12:25	24° $\text{H}$ 43'56	-1°47'14	inferior conj	14530 Feb 14 18:16	7° $\text{H}$ 18'33	-3°12'43
minimum elong	14529 Mar 04 16:13	24° $\text{H}$ 35'17	1°45'29	minimum elong	14530 Feb 15 01:22	7° $\text{H}$ 04'30	3°09'38
asc. node	14529 Mar 10 00:52	20° $\text{H}$ 29'39		morning rise	14530 Feb 22 16:14	2° $\text{H}$ 39'56	
morning rise	14529 Mar 11 19:34	19° $\text{H}$ 44'28		direct	14530 Feb 24 16:35	2° $\text{H}$ 25'00	
direct	14529 Mar 13 23:37	19° $\text{H}$ 24'05		asc. node	14530 Feb 24 22:20	2° $\text{H}$ 25'13	
morning max el	14529 Mar 20 20:46	22° $\text{H}$ 52'12	17°50'10	morning max el	14530 Mar 04 09:29	6° $\text{H}$ 14'19	18°12'12
	14529 Mar 26 11:19	0° $\text{Y}$			14530 Mar 19 11:17	0° $\text{Y}$	
morning set	14529 Apr 05 13:32	17° $\text{Y}$ 14'28		morning set	14530 Mar 20 01:00	1° $\text{Y}$ 04'29	
desc. node	14529 Apr 11 19:27	28° $\text{Y}$ 21'50					
	14529 Apr 12 17:51	0° $\text{B}$		superior conj	14530 Mar 29 16:19	18° $\text{Y}$ 56'34	-0°00'07
superior conj	14529 Apr 16 15:08	6° $\text{B}$ 42'49	-0°37'48	minimum elong	14530 Mar 29 16:17	18° $\text{Y}$ 56'25	0°00'21
minimum elong	14529 Apr 16 11:37	6° $\text{B}$ 27'49	0°37'47	behind sun begin	14530 Mar 29 08:46	18° $\text{Y}$ 22'31	
max. Earth dist.	14529 Apr 23 20:07	18° $\text{B}$ 42'59	1.43437 AU	behind sun end	14530 Mar 29 23:49	19° $\text{Y}$ 30'14	
evening rise	14529 Apr 30 16:30	29° $\text{B}$ 37'36		desc. node	14530 Mar 29 15:59	18° $\text{Y}$ 55'04	
	14529 Apr 30 22:15	0° $\text{II}$			14530 Apr 04 23:40	0° $\text{B}$	
	14529 May 21 07:20	0° $\text{E}$		max. Earth dist.	14530 Apr 06 07:06	2° $\text{B}$ 13'19	1.41470 AU
evening max el	14529 Jun 01 06:26	13° $\text{E}$ 24'14	21°39'25	evening rise	14530 Apr 11 02:57	10° $\text{B}$ 12'33	
asc. node	14529 Jun 05 21:58	17° $\text{E}$ 14'46			14530 Apr 23 22:21	0° $\text{II}$	
retrograde	14529 Jun 10 08:18	18° $\text{E}$ 42'24		evening max el	14530 May 14 22:29	27° $\text{II}$ 15'44	22°58'59
evening set	14529 Jun 14 21:19	16° $\text{E}$ 50'23			14530 May 17 22:41	0° $\text{E}$	
inferior conj	14529 Jun 20 03:14	10° $\text{E}$ 34'33	3°07'10	asc. node	14530 May 23 19:05	3° $\text{E}$ 09'22	
minimum elong	14529 Jun 20 02:29	10° $\text{E}$ 37'12	3°06'05	retrograde	14530 May 25 04:46	3° $\text{E}$ 18'10	
min. Earth dist.	14529 Jun 20 07:03	10° $\text{E}$ 21'12	0.68924 AU	evening set	14530 May 30 05:09	1° $\text{E}$ 11'07	
morning rise	14529 Jun 25 07:27	4° $\text{E}$ 18'30			14530 May 31 10:46	30° $\text{R}$ II	
direct	14529 Jun 30 06:22	2° $\text{E}$ 10'48		min. Earth dist.	14530 Jun 04 03:52	25° $\text{II}$ 18'22	0.68993 AU
desc. node	14529 Jul 08 19:40	6° $\text{E}$ 44'10		inferior conj	14530 Jun 04 13:00	24° $\text{II}$ 46'43	2°53'10
morning max el	14529 Jul 10 03:03	8° $\text{E}$ 00'03	22°36'15	minimum elong	14530 Jun 04 11:27	24° $\text{II}$ 52'05	2°51'55
	14529 Jul 27 06:45	0° $\text{O}$		morning rise	14530 Jun 09 17:40	18° $\text{II}$ 37'47	
morning set	14529 Aug 12 21:03	25° $\text{O}$ 31'34		direct	14530 Jun 14 03:58	16° $\text{II}$ 49'34	
	14529 Aug 15 14:11	0° $\text{np}$		morning max el	14530 Jun 22 19:00	21° $\text{II}$ 47'56	21°12'02
max. Earth dist.	14529 Aug 17 16:32	3° $\text{np}$ 31'18	1.40701 AU	desc. node	14530 Jun 25 16:50	24° $\text{II}$ 56'30	
superior conj	14529 Aug 25 12:48	17° $\text{np}$ 13'37	-1°03'08		14530 Jun 29 19:20	0° $\text{E}$	
minimum elong	14529 Aug 25 17:40	17° $\text{np}$ 35'31	1°02'43		14530 Jul 20 12:33	0° $\text{O}$	
	14529 Sep 01 10:59	0° $\text{A}$		morning set	14530 Jul 23 17:55	5° $\text{O}$ 00'42	
asc. node	14529 Sep 01 22:52	0° $\text{A}$ 55'50		max. Earth dist.	14530 Jul 30 21:44	16° $\text{O}$ 26'50	1.42844 AU
evening rise	14529 Sep 04 13:28	5° $\text{A}$ 51'07		superior conj	14530 Aug 07 03:26	28° $\text{O}$ 30'24	-1°37'02
	14529 Sep 19 03:10	0° $\text{M}$		minimum elong	14530 Aug 07 10:40	29° $\text{O}$ 01'15	1°36'50
evening max el	14529 Sep 20 11:50	1° $\text{M}$ 27'57	18°22'53		14530 Aug 08 00:24	0° $\text{np}$	
retrograde	14529 Sep 28 02:32	5° $\text{M}$ 19'42		evening rise	14530 Aug 18 16:29	18° $\text{np}$ 49'08	
evening set	14529 Sep 30 03:21	5° $\text{M}$ 03'52		asc. node	14530 Aug 19 19:25	20° $\text{np}$ 50'08	
desc. node	14529 Oct 04 16:03	2° $\text{M}$ 50'25			14530 Aug 24 23:38	0° $\text{A}$	
inferior conj	14529 Oct 07 19:04	0° $\text{M}$ 27'38	-0°59'41	evening max el	14530 Sep 03 23:13	14° $\text{A}$ 22'27	18°04'18
minimum elong	14529 Oct 07 16:47	0° $\text{M}$ 32'14	0°58'19	retrograde	14530 Sep 10 18:13	17° $\text{A}$ 51'39	
	14529 Oct 08 08:39	30° $\text{R}$ A		evening set	14530 Sep 13 02:18	17° $\text{A}$ 27'02	
min. Earth dist.	14529 Oct 11 01:21	27° $\text{A}$ 50'14	0.58215 AU	inferior conj	14530 Sep 20 00:22	12° $\text{A}$ 30'38	0°28'36
morning rise	14529 Oct 15 02:44	25° $\text{A}$ 08'19		minimum elong	14530 Sep 20 01:16	12° $\text{A}$ 28'31	0°28'23
direct	14529 Oct 21 08:49	23° $\text{A}$ 26'30		desc. node	14530 Sep 21 13:32	11° $\text{A}$ 02'56	
	14529 Nov 03 13:28	0° $\text{M}$		min. Earth dist.	14530 Sep 23 04:45	9° $\text{A}$ 32'39	0.60462 AU
morning max el	14529 Nov 04 16:10	1° $\text{M}$ 02'57	27°15'11	morning rise	14530 Sep 26 21:06	6° $\text{A}$ 40'38	
	14529 Nov 25 07:57	0° $\text{A}$		direct	14530 Oct 03 11:23	4° $\text{A}$ 33'09	
asc. node	14529 Nov 29 00:28	6° $\text{A}$ 51'16		morning max el	14530 Oct 17 18:00	12° $\text{A}$ 26'20	27°54'09
morning set	14529 Dec 05 06:59	19° $\text{A}$ 36'33			14530 Oct 31 16:15	0° $\text{M}$	
	14529 Dec 10 01:02	0° $\text{B}$		asc. node	14530 Nov 15 21:18	26° $\text{M}$ 29'46	
superior conj	14529 Dec 12 04:00	4° $\text{B}$ 44'41	1°34'48		14530 Nov 17 15:06	0° $\text{A}$	
minimum elong	14529 Dec 12 02:56	4° $\text{B}$ 38'45	1°35'47	morning set	14530 Nov 19 11:16	3° $\text{A}$ 48'03	
max. Earth dist.	14529 Dec 12 03:18	4° $\text{B}$ 40'51	1.31133 AU	max. Earth dist.	14530 Nov 25 10:40	16° $\text{A}$ 43'41	1.31243 AU
evening rise	14529 Dec 18 22:43	19° $\text{B}$ 41'16		superior conj	14530 Nov 26 15:01	19° $\text{A}$ 21'15	1°25'44
	14529 Dec 23 22:55	0° $\text{A}$		minimum elong	14530 Nov 26 13:10	19° $\text{A}$ 10'55	1°26'32
desc. node	14529 Dec 31 14:04	13° $\text{A}$ 57'01			14530 Dec 01 09:58	0° $\text{B}$	
	14530 Jan 11 12:37	0° $\text{H}$		evening rise	14530 Dec 03 07:39	4° $\text{B}$ 09'03	
evening max el	14530 Jan 17 23:33	7° $\text{H}$ 06'53	26°50'27		14530 Dec 16 19:49	0° $\text{A}$	
retrograde	14530 Jan 31 23:06	14° $\text{H}$ 18'41		desc. node	14530 Dec 18 10:58	2° $\text{A}$ 35'36	
evening set	14530 Feb 07 13:47	12° $\text{H}$ 28'34		evening max el	14530 Dec 30 18:20	18° $\text{A}$ 06'43	25°38'59
				retrograde	14531 Jan 13 16:02	25° $\text{A}$ 07'24	

evening set	14531 Jan 19 15:35	23° $\approx$ 44'51		evening set	14531 Dec 30 18:03	4° $\approx$ 14'40	
min. Earth dist.	14531 Jan 24 07:00	21° $\approx$ 05'57	0.57244 AU	min. Earth dist.	14532 Jan 05 17:20	1° $\approx$ 17'48	0.55581 AU
inferior conj	14531 Jan 27 04:27	19° $\approx$ 07'09	-4°36'39	inferior conj	14532 Jan 07 17:47	0° $\approx$ 04'43	-5°40'16
minimum elong	14531 Jan 27 13:31	18° $\approx$ 51'36	4°33'25	minimum elong	14532 Jan 08 00:12	29° $\approx$ 55'00	5°38'26
morning rise	14531 Feb 04 14:15	14° $\approx$ 50'23			14532 Jan 07 20:53	30° $\approx$ 5'30	
direct	14531 Feb 06 16:01	14° $\approx$ 37'16		morning rise	14532 Jan 16 08:08	26° $\approx$ 06'59	
asc. node	14531 Feb 11 19:45	16° $\approx$ 04'02		direct	14532 Jan 18 20:00	25° $\approx$ 51'02	
morning max el	14531 Feb 15 13:57	18° $\approx$ 58'22	18°55'05		14532 Jan 28 07:20	0° $\approx$	
	14531 Feb 23 16:58	0° $\approx$		morning max el	14532 Jan 29 06:02	0° $\approx$ 52'22	20°00'44
morning set	14531 Mar 03 23:07	15° $\approx$ 21'56		asc. node	14532 Jan 29 17:09	1° $\approx$ 19'45	
	14531 Mar 11 10:56	0° $\approx$		morning set	14532 Feb 16 04:16	29° $\approx$ 56'14	
					14532 Feb 16 05:00	0° $\approx$	
superior conj	14531 Mar 12 12:16	2° $\approx$ 00'53	0°32'34	superior conj	14532 Feb 23 22:30	15° $\approx$ 43'07	0°58'45
minimum elong	14531 Mar 12 14:16	2° $\approx$ 10'19	0°32'18	minimum elong	14532 Feb 24 01:10	15° $\approx$ 56'23	0°58'43
desc. node	14531 Mar 16 12:30	9° $\approx$ 29'35		max. Earth dist.	14532 Feb 29 20:16	27° $\approx$ 10'35	1.36988 AU
max. Earth dist.	14531 Mar 19 13:49	14° $\approx$ 59'42	1.39239 AU	desc. node	14532 Mar 02 09:01	0° $\approx$ 01'38	
evening rise	14531 Mar 23 10:38	21° $\approx$ 43'01			14532 Mar 02 08:40	0° $\approx$	
	14531 Mar 28 10:14	0° $\approx$		evening rise	14532 Mar 04 14:09	4° $\approx$ 03'35	
	14531 Apr 17 21:57	0° $\approx$			14532 Mar 20 10:14	0° $\approx$	
evening max el	14531 Apr 27 12:19	11° $\approx$ 08'48	24°20'02	evening max el	14532 Apr 09 01:54	25° $\approx$ 02'16	25°35'31
retrograde	14531 May 08 22:00	17° $\approx$ 49'40			14532 Apr 15 02:44	0° $\approx$	
asc. node	14531 May 10 16:18	17° $\approx$ 36'05		retrograde	14532 Apr 21 10:48	2° $\approx$ 10'37	
evening set	14531 May 14 09:53	15° $\approx$ 30'16		asc. node	14532 Apr 26 13:37	0° $\approx$ 22'20	
min. Earth dist.	14531 May 18 23:49	10° $\approx$ 14'03	0.68588 AU	evening set	14532 Apr 27 09:56	29° $\approx$ 42'33	
inferior conj	14531 May 19 21:38	9° $\approx$ 00'33	2°28'52		14532 Apr 27 01:24	30° $\approx$ 5'30	
minimum elong	14531 May 19 19:34	9° $\approx$ 07'29	2°27'28	min. Earth dist.	14532 May 01 16:45	25° $\approx$ 02'21	0.67725 AU
morning rise	14531 May 25 05:22	2° $\approx$ 59'56		inferior conj	14532 May 03 03:12	23° $\approx$ 11'59	1°53'57
direct	14531 May 29 03:33	1° $\approx$ 32'01		minimum elong	14532 May 03 01:04	23° $\approx$ 18'50	1°52'31
morning max el	14531 Jun 05 17:34	5° $\approx$ 46'36	19°58'59	morning rise	14532 May 08 16:42	17° $\approx$ 21'03	
desc. node	14531 Jun 12 13:54	13° $\approx$ 54'13		direct	14532 May 12 03:34	16° $\approx$ 12'41	
	14531 Jun 23 19:30	0° $\approx$		morning max el	14532 May 18 23:33	19° $\approx$ 55'00	19°00'43
morning set	14531 Jul 02 22:04	13° $\approx$ 48'47			14532 May 27 02:06	0° $\approx$	
	14531 Jul 13 06:58	0° $\approx$		desc. node	14532 May 29 10:52	3° $\approx$ 25'12	
max. Earth dist.	14531 Jul 13 09:17	0° $\approx$ 09'11	1.44532 AU	greatest brilliancy	14532 Jun 01 04:10	7° $\approx$ 28'14	-0.7m
				morning set	14532 Jun 11 04:34	22° $\approx$ 49'25	
superior conj	14531 Jul 18 18:30	8° $\approx$ 47'44	-2°03'01		14532 Jun 15 19:45	0° $\approx$	
minimum elong	14531 Jul 19 00:58	9° $\approx$ 13'59	2°03'29	max. Earth dist.	14532 Jun 25 02:25	14° $\approx$ 27'05	1.45586 AU
	14531 Jul 31 11:37	0° $\approx$					
evening rise	14531 Aug 01 01:22	0° $\approx$ 58'40		superior conj	14532 Jun 27 12:32	18° $\approx$ 15'02	-2°13'47
asc. node	14531 Aug 06 16:01	10° $\approx$ 31'21		minimum elong	14532 Jun 27 13:02	18° $\approx$ 17'02	2°14'48
evening max el	14531 Aug 18 13:38	27° $\approx$ 42'29	18°04'44		14532 Jul 04 22:26	0° $\approx$	
	14531 Aug 21 10:54	0° $\approx$		evening rise	14532 Jul 12 11:17	12° $\approx$ 09'12	
retrograde	14531 Aug 24 23:13	1° $\approx$ 02'52		asc. node	14532 Jul 23 12:42	29° $\approx$ 05'43	
evening set	14531 Aug 27 15:40	0° $\approx$ 25'59			14532 Jul 23 14:07	0° $\approx$	
	14531 Aug 28 11:49	30° $\approx$ 5'30		evening max el	14532 Aug 01 03:42	11° $\approx$ 19'50	18°23'13
inferior conj	14531 Sep 02 22:50	25° $\approx$ 11'21	1°35'41	retrograde	14532 Aug 07 13:22	14° $\approx$ 45'02	
minimum elong	14531 Sep 03 01:06	25° $\approx$ 05'18	1°34'45	evening set	14532 Aug 10 14:39	13° $\approx$ 53'15	
min. Earth dist.	14531 Sep 05 17:45	22° $\approx$ 14'13	0.62735 AU	inferior conj	14532 Aug 16 10:28	8° $\approx$ 22'21	2°22'35
desc. node	14531 Sep 08 11:04	19° $\approx$ 42'17		minimum elong	14532 Aug 16 12:49	8° $\approx$ 15'26	2°21'30
morning rise	14531 Sep 09 08:17	19° $\approx$ 01'02		min. Earth dist.	14532 Aug 18 16:11	5° $\approx$ 44'33	0.64808 AU
direct	14531 Sep 16 00:32	16° $\approx$ 34'03		morning rise	14532 Aug 22 09:39	2° $\approx$ 01'03	
morning max el	14531 Sep 30 01:26	24° $\approx$ 34'35	27°54'06	desc. node	14532 Aug 25 08:36	0° $\approx$ 09'43	
	14531 Oct 04 23:47	0° $\approx$			14532 Aug 25 18:00	30° $\approx$ 5'30	
	14531 Oct 25 02:22	0° $\approx$		direct	14532 Aug 28 22:12	29° $\approx$ 02'34	
asc. node	14531 Nov 02 18:03	16° $\approx$ 22'29			14532 Sep 01 06:55	0° $\approx$	
morning set	14531 Nov 03 08:57	17° $\approx$ 37'52		morning max el	14532 Sep 11 11:56	7° $\approx$ 19'51	27°19'04
max. Earth dist.	14531 Nov 08 13:29	28° $\approx$ 30'55	1.31901 AU		14532 Sep 29 00:27	0° $\approx$	
	14531 Nov 09 05:58	0° $\approx$			14532 Oct 16 09:08	0° $\approx$	
superior conj	14531 Nov 10 23:39	3° $\approx$ 47'12	1°10'49	morning set	14532 Oct 16 21:30	1° $\approx$ 00'11	
minimum elong	14531 Nov 10 21:22	3° $\approx$ 34'43	1°11'22	asc. node	14532 Oct 19 14:45	6° $\approx$ 24'38	
evening rise	14531 Nov 17 18:24	18° $\approx$ 39'29		max. Earth dist.	14532 Oct 21 08:31	9° $\approx$ 57'56	1.33113 AU
	14531 Nov 23 05:31	0° $\approx$					
desc. node	14531 Dec 05 07:58	20° $\approx$ 31'55		superior conj	14532 Oct 25 03:47	17° $\approx$ 57'11	0°50'04
evening max el	14531 Dec 12 05:51	28° $\approx$ 22'18	24°03'38	minimum elong	14532 Oct 25 01:38	17° $\approx$ 45'41	0°50'23
	14531 Dec 14 01:11	0° $\approx$			14532 Oct 30 18:04	0° $\approx$	
retrograde	14531 Dec 25 19:53	5° $\approx$ 07'29		evening rise	14532 Nov 01 05:13	3° $\approx$ 08'17	



	14532 Nov 15 19:04	0°♄		desc. node	14533 Nov 08 02:21	21°♄42'51	
desc. node	14532 Nov 21 05:06	6°♄50'32		retrograde	14533 Nov 15 21:37	24°♄21'26	
evening max el	14532 Nov 22 16:23	8°♄21'11	22°20'54	evening set	14533 Nov 18 08:03	24°♄07'06	
retrograde	14532 Dec 05 11:08	14°♄41'00		inferior conj	14533 Nov 27 05:39	20°♄13'33	-5°16'13
evening set	14532 Dec 09 01:10	14°♄12'46		minimum elong	14533 Nov 26 20:27	20°♄26'43	5°13'17
min. Earth dist.	14532 Dec 16 23:30	10°♄39'19	0.54618 AU	min. Earth dist.	14533 Nov 28 05:17	19°♄39'43	0.54545 AU
inferior conj	14532 Dec 17 14:23	10°♄18'25	-5°58'26	morning rise	14533 Dec 05 08:58	16°♄19'07	
minimum elong	14532 Dec 17 12:27	10°♄21'07	5°57'19	direct	14533 Dec 09 16:07	15°♄39'32	
morning rise	14532 Dec 26 00:51	6°♄31'10		morning max el	14533 Dec 22 20:38	22°♄03'53	23°14'44
direct	14532 Dec 29 08:30	6°♄06'25			14533 Dec 29 16:49	0°♄	
morning max el	14533 Jan 10 07:21	11°♄50'43	21°29'10	asc. node	14534 Jan 02 11:44	5°♄35'47	
asc. node	14533 Jan 15 14:29	17°♄56'14		morning set	14534 Jan 15 01:23	29°♄25'29	
	14533 Jan 23 04:12	0°♄			14534 Jan 15 07:51	0°♄	
morning set	14533 Jan 30 13:44	14°♄39'28					
				superior conj	14534 Jan 21 23:01	14°♄20'32	1°30'47
superior conj	14533 Feb 06 19:07	29°♄52'33	1°18'06	minimum elong	14534 Jan 22 00:37	14°♄29'13	1°31'28
minimum elong	14533 Feb 06 21:32	0°♄05'03	1°18'26	max. Earth dist.	14534 Jan 25 01:36	20°♄57'25	1.33258 AU
	14533 Feb 06 20:33	0°♄			14534 Jan 29 11:39	0°♄	
max. Earth dist.	14533 Feb 11 07:18	9°♄04'20	1.34942 AU	evening rise	14534 Jan 29 19:18	0°♄38'00	
evening rise	14533 Feb 15 10:12	17°♄04'48		desc. node	14534 Feb 04 02:07	10°♄42'27	
desc. node	14533 Feb 17 05:32	20°♄27'18			14534 Feb 15 14:29	0°♄	
	14533 Feb 22 14:09	0°♄		evening max el	14534 Mar 05 05:07	22°♄20'09	27°19'53
	14533 Mar 14 18:33	0°♄		retrograde	14534 Mar 18 19:18	29°♄49'31	
evening max el	14533 Mar 22 15:46	8°♄49'22	26°37'56	evening set	14534 Mar 25 12:22	27°♄19'27	
retrograde	14533 Apr 04 18:09	16°♄13'17		min. Earth dist.	14534 Mar 29 08:54	23°♄46'14	0.64764 AU
evening set	14533 Apr 11 03:27	13°♄41'11		asc. node	14534 Mar 31 08:30	21°♄37'01	
asc. node	14533 Apr 13 11:03	11°♄31'19		inferior conj	14534 Mar 31 20:09	21°♄05'05	0°09'16
min. Earth dist.	14533 Apr 15 04:27	9°♄35'47	0.66437 AU	minimum elong	14534 Mar 31 19:53	21°♄05'48	0°08'53
inferior conj	14533 Apr 17 03:33	7°♄15'24	1°07'39	transit middle	14534 Mar 31 19:53	21°♄05'48	0°08'53
minimum elong	14533 Apr 17 01:56	7°♄20'12	1°06'31	transit begin	14534 Mar 31 17:21	21°♄12'45	
morning rise	14533 Apr 23 01:32	1°♄35'55		transit end	14534 Mar 31 22:26	20°♄58'51	
direct	14533 Apr 26 02:02	0°♄45'05		morning rise	14534 Apr 07 05:19	15°♄39'13	
morning max el	14533 May 02 11:57	4°♄08'09	18°18'46	direct	14534 Apr 09 20:35	15°♄03'03	
desc. node	14533 May 16 07:41	23°♄19'51		morning max el	14534 Apr 16 04:30	18°♄19'14	17°53'47
	14533 May 20 12:33	0°♄			14534 Apr 24 22:01	0°♄	
morning set	14533 May 22 08:15	2°♄53'53		desc. node	14534 May 03 04:25	13°♄31'42	
				morning set	14534 May 03 15:54	14°♄19'22	
superior conj	14533 Jun 06 20:49	27°♄22'28	-2°04'38		14534 May 13 04:57	0°♄	
minimum elong	14533 Jun 06 13:59	26°♄55'48	2°05'18	superior conj	14534 May 17 12:49	6°♄56'37	-1°37'36
max. Earth dist.	14533 Jun 07 22:40	29°♄03'23	1.45909 AU	minimum elong	14534 May 17 03:58	6°♄21'23	1°37'36
	14533 Jun 08 13:11	0°♄		max. Earth dist.	14534 May 21 18:44	13°♄39'35	1.45481 AU
evening rise	14533 Jun 22 20:33	22°♄18'55			14534 Jun 01 07:27	0°♄	
	14533 Jun 27 18:41	0°♄		evening rise	14534 Jun 02 11:34	1°♄47'49	
greatest brilliancy	14533 Jul 03 02:53	8°♄15'32	-0.8m	greatest brilliancy	14534 Jun 17 01:22	23°♄42'51	-0.6m
asc. node	14533 Jul 10 09:29	18°♄52'19			14534 Jun 21 12:00	0°♄	
evening max el	14533 Jul 15 14:33	25°♄06'08	18°58'59	asc. node	14534 Jun 27 06:21	7°♄15'43	
retrograde	14533 Jul 22 09:07	28°♄49'31		evening max el	14534 Jun 28 20:11	8°♄55'53	19°50'54
evening set	14533 Jul 25 19:34	27°♄41'15		retrograde	14534 Jul 06 07:36	13°♄09'43	
inferior conj	14533 Jul 31 07:38	21°♄55'46	2°52'15	evening set	14534 Jul 10 03:47	11°♄44'18	
minimum elong	14533 Jul 31 09:21	21°♄50'18	2°51'15	inferior conj	14534 Jul 15 11:17	5°♄45'49	3°07'31
min. Earth dist.	14533 Aug 01 22:58	19°♄50'32	0.66531 AU	minimum elong	14534 Jul 15 12:04	5°♄43'12	3°06'34
morning rise	14533 Aug 05 22:23	15°♄30'34		min. Earth dist.	14534 Jul 16 12:26	4°♄21'13	0.67825 AU
direct	14533 Aug 12 03:02	12°♄52'13			14534 Jul 20 03:40	30°♄	
desc. node	14533 Aug 12 06:06	12°♄52'17		morning rise	14534 Jul 20 19:57	29°♄21'39	
morning max el	14533 Aug 24 23:18	20°♄30'36	26°16'43	direct	14534 Jul 26 14:00	26°♄50'23	
	14533 Sep 02 03:36	0°♄		desc. node	14534 Jul 30 03:32	27°♄38'38	
	14533 Sep 22 03:46	0°♄			14534 Aug 03 00:46	0°♄	
morning set	14533 Sep 29 21:38	13°♄47'28		morning max el	14534 Aug 07 10:08	3°♄56'07	24°56'17
max. Earth dist.	14533 Oct 03 17:53	21°♄07'29	1.34839 AU		14534 Aug 27 09:50	0°♄	
asc. node	14533 Oct 06 11:23	26°♄31'46		morning set	14534 Sep 12 05:24	25°♄50'17	
	14533 Oct 08 04:31	0°♄			14534 Sep 14 13:08	0°♄	
superior conj	14533 Oct 09 00:57	1°♄44'37	0°23'42	max. Earth dist.	14534 Sep 15 18:51	2°♄15'37	1.36979 AU
minimum elong	14533 Oct 08 23:39	1°♄38'00	0°23'55				
evening rise	14533 Oct 16 14:07	17°♄30'18		superior conj	14534 Sep 22 12:01	15°♄01'52	-0°07'39
	14533 Oct 22 19:41	0°♄		minimum elong	14534 Sep 22 12:30	15°♄04'13	0°07'24
evening max el	14533 Nov 04 11:26	18°♄40'40	20°47'51	behind sun begin	14534 Sep 22 06:38	14°♄35'28	

































































































































behind sun end	14534 Sep 22 18:22	15° $\Omega$ 33'02		superior conj	14535 Sep 05 09:17	27° $\Pi$ 40'32	-0°42'29
asc. node	14534 Sep 23 07:57	16° $\Omega$ 39'57		minimum elong	14535 Sep 05 12:25	27° $\Pi$ 55'05	0°42'07
	14534 Sep 29 23:09	0° $\Pi$			14535 Sep 06 15:07	0° $\Omega$	
evening rise	14534 Sep 30 18:49	1° $\Pi$ 39'22		asc. node	14535 Sep 10 04:29	6° $\Omega$ 45'56	
evening max el	14534 Oct 17 20:35	29° $\Pi$ 45'24	19°34'18	evening rise	14535 Sep 14 16:30	15° $\Omega$ 28'37	
	14534 Oct 18 02:29	0° $\mathcal{A}$			14535 Sep 22 11:25	0° $\Pi$	
desc. node	14534 Oct 25 23:41	4° $\mathcal{A}$ 30'51		evening max el	14535 Sep 30 19:08	11° $\Pi$ 39'56	18°42'52
retrograde	14534 Oct 27 15:28	4° $\mathcal{A}$ 38'59		retrograde	14535 Oct 09 02:04	15° $\Pi$ 50'35	
evening set	14534 Oct 29 13:08	4° $\mathcal{A}$ 28'42		evening set	14535 Oct 10 23:55	15° $\Pi$ 38'04	
inferior conj	14534 Nov 07 06:12	0° $\mathcal{A}$ 24'02	-3°46'03	desc. node	14535 Oct 12 21:07	15° $\Pi$ 02'51	
minimum elong	14534 Nov 06 20:59	0° $\mathcal{A}$ 38'42	3°42'05	inferior conj	14535 Oct 19 02:05	11° $\Pi$ 14'31	-1°58'47
	14534 Nov 07 21:15	30° $\mathcal{R}\Pi$		minimum elong	14535 Oct 18 21:13	11° $\Pi$ 23'31	1°56'14
min. Earth dist.	14534 Nov 09 14:11	28° $\Pi$ 55'09	0.55402 AU	min. Earth dist.	14535 Oct 22 04:35	8° $\Pi$ 57'42	0.57036 AU
morning rise	14534 Nov 15 02:54	26° $\Pi$ 02'25		morning rise	14535 Oct 26 15:12	6° $\Pi$ 16'13	
direct	14534 Nov 20 07:49	25° $\Pi$ 01'51		direct	14535 Nov 01 13:57	4° $\Pi$ 49'39	
	14534 Dec 01 23:37	0° $\mathcal{A}$		morning max el	14535 Nov 15 19:31	12° $\Pi$ 14'22	26°35'30
morning max el	14534 Dec 04 06:00	2° $\mathcal{A}$ 00'16	25°03'10		14535 Nov 29 16:11	0° $\mathcal{A}$	
asc. node	14534 Dec 20 08:52	24° $\mathcal{A}$ 02'18		asc. node	14535 Dec 07 05:52	13° $\mathcal{A}$ 03'54	
	14534 Dec 23 14:56	0° $\mathcal{B}$		morning set	14535 Dec 14 23:34	28° $\mathcal{A}$ 41'30	
morning set	14534 Dec 30 13:14	14° $\mathcal{B}$ 07'41			14535 Dec 15 14:08	0° $\mathcal{B}$	
superior conj	14535 Jan 06 07:30	28° $\mathcal{B}$ 58'28	1°37'07	superior conj	14535 Dec 21 18:29	13° $\mathcal{B}$ 40'12	1°37'21
minimum elong	14535 Jan 06 08:05	29° $\mathcal{B}$ 01'39	1°38'03	minimum elong	14535 Dec 21 17:59	13° $\mathcal{B}$ 37'27	1°38'22
	14535 Jan 06 18:41	0° $\approx$		max. Earth dist.	14535 Dec 22 09:22	15° $\mathcal{B}$ 03'19	1.31313 AU
max. Earth dist.	14535 Jan 08 02:58	2° $\approx$ 56'56	1.32031 AU	evening rise	14535 Dec 28 16:18	28° $\mathcal{B}$ 47'14	
evening rise	14535 Jan 13 14:12	14° $\approx$ 34'13			14535 Dec 29 06:07	0° $\approx$	
desc. node	14535 Jan 21 22:44	0° $\mathcal{H}$ 40'57		desc. node	14536 Jan 08 19:28	20° $\approx$ 16'01	
	14535 Jan 21 13:39	0° $\mathcal{H}$			14536 Jan 14 18:59	0° $\mathcal{H}$	
	14535 Feb 10 15:10	0° $\mathcal{Y}$		evening max el	14536 Jan 28 23:15	17° $\mathcal{H}$ 44'05	27°16'41
evening max el	14535 Feb 15 16:20	5° $\mathcal{Y}$ 22'19	27°34'39	retrograde	14536 Feb 11 23:03	25° $\mathcal{H}$ 01'59	
retrograde	14535 Mar 01 13:26	12° $\mathcal{Y}$ 48'57		evening set	14536 Feb 18 17:52	22° $\mathcal{H}$ 58'57	
evening set	14535 Mar 08 10:12	10° $\mathcal{Y}$ 28'21		min. Earth dist.	14536 Feb 22 13:46	20° $\mathcal{H}$ 13'10	0.60594 AU
min. Earth dist.	14535 Mar 12 04:22	7° $\mathcal{Y}$ 22'39	0.62774 AU	inferior conj	14536 Feb 25 17:46	17° $\mathcal{H}$ 30'30	-2°22'54
inferior conj	14535 Mar 15 02:02	4° $\mathcal{Y}$ 33'04	-1°01'27	minimum elong	14536 Feb 25 22:58	17° $\mathcal{H}$ 19'18	2°20'32
minimum elong	14535 Mar 15 04:05	4° $\mathcal{Y}$ 28'03	1°00'35	morning rise	14536 Mar 04 07:20	12° $\mathcal{H}$ 39'31	
asc. node	14535 Mar 18 05:58	1° $\mathcal{Y}$ 39'44		asc. node	14536 Mar 04 03:27	12° $\mathcal{H}$ 42'19	
	14535 Mar 20 16:12	30° $\mathcal{R}\mathcal{H}$		direct	14536 Mar 06 09:12	12° $\mathcal{H}$ 22'00	
morning rise	14535 Mar 22 00:45	29° $\mathcal{H}$ 23'17		morning max el	14536 Mar 13 13:51	15° $\mathcal{H}$ 58'13	17°57'01
direct	14535 Mar 24 08:12	28° $\mathcal{H}$ 58'18			14536 Mar 23 09:02	0° $\mathcal{Y}$	
	14535 Mar 27 22:37	0° $\mathcal{Y}$		morning set	14536 Mar 29 03:40	10° $\mathcal{Y}$ 23'29	
morning max el	14535 Mar 30 22:16	2° $\mathcal{Y}$ 19'10	17°46'14	desc. node	14536 Apr 05 21:34	24° $\mathcal{Y}$ 25'54	
morning set	14535 Apr 16 00:23	26° $\mathcal{Y}$ 55'17					
	14535 Apr 17 18:48	0° $\mathcal{B}$		superior conj	14536 Apr 08 13:40	29° $\mathcal{Y}$ 08'11	-0°21'21
desc. node	14535 Apr 20 01:02	3° $\mathcal{B}$ 55'07		minimum elong	14536 Apr 08 11:47	29° $\mathcal{Y}$ 00'00	0°21'27
					14536 Apr 09 01:34	0° $\mathcal{B}$	
superior conj	14535 Apr 28 01:17	17° $\mathcal{B}$ 29'29	-1°00'28	max. Earth dist.	14536 Apr 16 01:32	11° $\mathcal{B}$ 51'15	1.42649 AU
minimum elong	14535 Apr 27 19:24	17° $\mathcal{B}$ 05'04	1°00'20	evening rise	14536 Apr 21 22:35	21° $\mathcal{B}$ 21'04	
max. Earth dist.	14535 May 04 12:06	27° $\mathcal{B}$ 59'42	1.44352 AU		14536 Apr 27 12:02	0° $\Pi$	
	14535 May 05 18:16	0° $\Pi$			14536 May 18 17:47	0° $\mathcal{B}$	
evening rise	14535 May 12 23:06	11° $\Pi$ 15'48		evening max el	14536 May 24 14:17	6° $\mathcal{B}$ 38'03	22°12'50
	14535 May 25 10:34	0° $\mathcal{B}$		asc. node	14536 May 31 00:21	11° $\mathcal{B}$ 30'34	
evening max el	14535 Jun 11 19:51	22° $\mathcal{B}$ 46'42	20°56'47	retrograde	14536 Jun 03 04:17	12° $\mathcal{B}$ 15'18	
asc. node	14535 Jun 14 03:18	24° $\mathcal{B}$ 53'28		evening set	14536 Jun 07 22:01	10° $\mathcal{B}$ 16'53	
retrograde	14535 Jun 20 06:36	27° $\mathcal{B}$ 40'12		inferior conj	14536 Jun 13 04:31	3° $\mathcal{B}$ 57'16	3°02'31
evening set	14535 Jun 24 13:11	25° $\mathcal{B}$ 57'50		minimum elong	14536 Jun 13 03:23	4° $\mathcal{B}$ 01'10	3°01'21
inferior conj	14535 Jun 29 18:58	19° $\mathcal{B}$ 47'52	3°10'31	min. Earth dist.	14536 Jun 13 02:52	4° $\mathcal{B}$ 02'58	0.69009 AU
minimum elong	14535 Jun 29 18:45	19° $\mathcal{B}$ 48'38	3°09'30		14536 Jun 16 03:59	30° $\mathcal{R}\Pi$	
min. Earth dist.	14535 Jun 30 06:29	19° $\mathcal{B}$ 07'56	0.68653 AU	morning rise	14536 Jun 18 08:35	27° $\Pi$ 43'57	
morning rise	14535 Jul 05 00:02	13° $\mathcal{B}$ 28'04		direct	14536 Jun 23 02:11	25° $\Pi$ 44'02	
direct	14535 Jul 10 06:09	11° $\mathcal{B}$ 10'16			14536 Jul 01 04:11	0° $\mathcal{B}$	
desc. node	14535 Jul 17 00:53	14° $\mathcal{B}$ 03'47		morning max el	14536 Jul 02 09:47	1° $\mathcal{B}$ 11'17	21°59'21
morning max el	14535 Jul 20 20:51	17° $\mathcal{B}$ 30'03	23°27'29	desc. node	14536 Jul 02 22:07	1° $\mathcal{B}$ 42'37	
	14535 Jul 31 06:46	0° $\mathcal{Q}$			14536 Jul 24 02:43	0° $\mathcal{Q}$	
	14535 Aug 20 10:53	0° $\Pi$		morning set	14536 Aug 04 02:46	17° $\mathcal{Q}$ 01'33	
morning set	14535 Aug 24 16:19	6° $\Pi$ 58'11		max. Earth dist.	14536 Aug 09 18:12	26° $\mathcal{Q}$ 13'56	1.41652 AU
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
























































































































superior conj	14536 Aug 17 12:17	9° $\mathbb{M}$ 29'38	-1°18'03	superior conj	14537 Jul 29 17:02	20° $\Omega$ 21'09	-1°49'27
minimum elong	14536 Aug 17 18:20	9° $\mathbb{M}$ 56'17	1°17'40	minimum elong	14537 Jul 30 00:30	20° $\Omega$ 52'21	1°49'30
asc. node	14536 Aug 27 01:00	26° $\mathbb{M}$ 45'19			14537 Aug 04 09:46	0° $\mathbb{M}$	
evening rise	14536 Aug 28 03:31	28° $\mathbb{M}$ 47'54		evening rise	14537 Aug 10 23:26	11° $\mathbb{M}$ 26'41	
	14536 Aug 28 19:07	0° $\underline{\mathbf{A}}$		asc. node	14537 Aug 13 21:35	16° $\mathbb{M}$ 34'35	
evening max el	14536 Sep 13 03:04	24° $\underline{\mathbf{A}}$ 15'10	18°12'40		14537 Aug 21 22:38	0° $\underline{\mathbf{A}}$	
retrograde	14536 Sep 20 07:51	27° $\underline{\mathbf{A}}$ 55'14		evening max el	14537 Aug 27 16:09	7° $\underline{\mathbf{A}}$ 21'15	18°02'12
evening set	14536 Sep 22 11:42	27° $\underline{\mathbf{A}}$ 36'00		retrograde	14537 Sep 03 05:49	10° $\underline{\mathbf{A}}$ 45'00	
desc. node	14536 Sep 28 18:37	23° $\underline{\mathbf{A}}$ 44'28		evening set	14537 Sep 05 17:29	10° $\underline{\mathbf{A}}$ 15'24	
inferior conj	14536 Sep 29 19:41	22° $\underline{\mathbf{A}}$ 51'05	-0°19'45	inferior conj	14537 Sep 12 08:45	5° $\underline{\mathbf{A}}$ 10'37	0°59'42
minimum elong	14536 Sep 29 18:59	22° $\underline{\mathbf{A}}$ 52'35	0°19'10	minimum elong	14537 Sep 12 10:25	5° $\underline{\mathbf{A}}$ 06'27	0°59'04
min. Earth dist.	14536 Oct 03 02:26	20° $\underline{\mathbf{A}}$ 02'27	0.59154 AU	min. Earth dist.	14537 Sep 15 09:38	2° $\underline{\mathbf{A}}$ 10'50	0.61442 AU
morning rise	14536 Oct 06 22:54	17° $\underline{\mathbf{A}}$ 17'58		desc. node	14537 Sep 15 16:08	1° $\underline{\mathbf{A}}$ 55'33	
direct	14536 Oct 13 09:31	15° $\underline{\mathbf{A}}$ 24'37			14537 Sep 17 21:45	30° $\mathbb{R}$ $\mathbb{M}$	
morning max el	14536 Oct 27 16:39	23° $\underline{\mathbf{A}}$ 08'30	27°36'30	morning rise	14537 Sep 19 00:39	29° $\mathbb{M}$ 10'52	
	14536 Nov 02 20:12	0° $\mathbb{M}$		direct	14537 Sep 25 16:27	26° $\mathbb{M}$ 54'27	
	14536 Nov 21 19:33	0° $\mathbb{A}$			14537 Oct 04 03:15	0° $\underline{\mathbf{A}}$	
asc. node	14536 Nov 23 02:45	2° $\mathbb{A}$ 30'46		morning max el	14537 Oct 09 21:09	4° $\underline{\mathbf{A}}$ 51'08	27°58'53
morning set	14536 Nov 28 06:35	13° $\mathbb{A}$ 02'05			14537 Oct 28 17:00	0° $\mathbb{M}$	
max. Earth dist.	14536 Dec 04 17:31	27° $\mathbb{A}$ 10'03	1.31118 AU	asc. node	14537 Nov 09 23:34	22° $\mathbb{M}$ 15'49	
				morning set	14537 Nov 12 08:21	27° $\mathbb{M}$ 04'47	
superior conj	14536 Dec 05 06:00	28° $\mathbb{A}$ 19'54	1°31'40		14537 Nov 13 17:55	0° $\mathbb{A}$	
minimum elong	14536 Dec 05 04:34	28° $\mathbb{A}$ 11'52	1°32'36	max. Earth dist.	14537 Nov 17 23:37	9° $\mathbb{A}$ 08'06	1.31457 AU
	14536 Dec 05 23:54	0° $\mathbb{B}$					
evening rise	14536 Dec 11 23:18	13° $\mathbb{B}$ 11'02		superior conj	14537 Nov 19 16:15	12° $\mathbb{A}$ 52'15	1°20'07
	14536 Dec 20 08:07	0° $\approx$		minimum elong	14537 Nov 19 14:09	12° $\mathbb{A}$ 40'40	1°20'50
desc. node	14536 Dec 25 16:19	9° $\approx$ 18'40		evening rise	14537 Nov 26 09:15	27° $\mathbb{A}$ 40'32	
evening max el	14537 Jan 09 23:13	29° $\approx$ 15'33	26°23'51		14537 Nov 27 11:14	0° $\mathbb{B}$	
	14537 Jan 10 18:26	0° $\mathbb{H}$		desc. node	14537 Dec 12 13:17	27° $\mathbb{B}$ 36'22	
retrograde	14537 Jan 23 22:21	6° $\mathbb{H}$ 22'03			14537 Dec 14 05:12	0° $\approx$	
evening set	14537 Jan 30 07:44	4° $\mathbb{H}$ 43'27		evening max el	14537 Dec 22 14:35	9° $\approx$ 54'35	25°00'30
min. Earth dist.	14537 Feb 03 12:45	2° $\mathbb{H}$ 06'28	0.58410 AU	retrograde	14538 Jan 05 09:32	16° $\approx$ 48'58	
	14537 Feb 06 08:57	30° $\mathbb{R}$ $\approx$		evening set	14538 Jan 10 23:50	15° $\approx$ 38'56	
inferior conj	14537 Feb 06 15:41	29° $\approx$ 47'25	-3°49'21	min. Earth dist.	14538 Jan 16 02:32	12° $\approx$ 55'04	0.56471 AU
minimum elong	14537 Feb 06 23:57	29° $\approx$ 32'02	3°46'00	inferior conj	14538 Jan 18 16:56	11° $\approx$ 14'28	-5°07'33
morning rise	14537 Feb 14 19:14	25° $\approx$ 17'42		minimum elong	14538 Jan 19 01:38	11° $\approx$ 00'24	5°04'46
direct	14537 Feb 16 19:27	25° $\approx$ 03'57		morning rise	14538 Jan 27 05:48	7° $\approx$ 06'35	
asc. node	14537 Feb 19 00:53	25° $\approx$ 21'40		direct	14538 Jan 29 10:50	6° $\approx$ 52'47	
morning max el	14537 Feb 24 23:31	29° $\approx$ 05'45	18°27'41	asc. node	14538 Feb 05 22:19	9° $\approx$ 43'27	
	14537 Feb 25 20:38	0° $\mathbb{H}$		morning max el	14538 Feb 07 23:10	11° $\approx$ 29'41	19°20'10
morning set	14537 Mar 12 20:16	24° $\mathbb{H}$ 27'40			14538 Feb 20 08:25	0° $\mathbb{H}$	
	14537 Mar 15 17:36	0° $\mathbb{Y}$		morning set	14538 Feb 24 21:47	8° $\mathbb{H}$ 53'52	
superior conj	14537 Mar 21 23:27	11° $\mathbb{Y}$ 45'33	0°14'29	superior conj	14538 Mar 05 02:04	25° $\mathbb{H}$ 07'55	0°44'28
minimum elong	14537 Mar 22 00:28	11° $\mathbb{Y}$ 50'13	0°14'13	minimum elong	14538 Mar 05 04:28	25° $\mathbb{H}$ 19'37	0°44'18
behind sun begin	14537 Mar 21 21:12	11° $\mathbb{Y}$ 35'09			14538 Mar 07 14:57	0° $\mathbb{Y}$	
behind sun end	14537 Mar 22 03:44	12° $\mathbb{Y}$ 05'15		desc. node	14538 Mar 10 14:35	5° $\mathbb{Y}$ 34'24	
desc. node	14537 Mar 23 18:05	15° $\mathbb{Y}$ 00'27		max. Earth dist.	14538 Mar 11 17:27	7° $\mathbb{Y}$ 37'03	1.38272 AU
max. Earth dist.	14537 Mar 29 10:54	25° $\mathbb{Y}$ 05'11	1.40546 AU	evening rise	14538 Mar 15 10:38	14° $\mathbb{Y}$ 13'45	
	14537 Apr 01 08:19	0° $\mathbb{B}$			14538 Mar 24 23:08	0° $\mathbb{B}$	
evening rise	14537 Apr 02 18:09	2° $\mathbb{B}$ 20'55			14538 Apr 15 15:51	0° $\mathbb{H}$	
	14537 Apr 20 19:12	0° $\mathbb{H}$		evening max el	14538 Apr 19 18:53	4° $\mathbb{H}$ 25'04	24°53'07
evening max el	14537 May 07 05:21	20° $\mathbb{H}$ 31'24	23°33'41	retrograde	14538 May 01 14:48	11° $\mathbb{H}$ 18'46	
retrograde	14537 May 17 23:22	26° $\mathbb{H}$ 50'29		asc. node	14538 May 04 18:50	10° $\mathbb{H}$ 35'43	
asc. node	14537 May 17 21:32	26° $\mathbb{H}$ 50'27		evening set	14538 May 07 07:42	8° $\mathbb{H}$ 54'54	
evening set	14537 May 23 04:43	24° $\mathbb{H}$ 37'50		min. Earth dist.	14538 May 11 18:21	3° $\mathbb{H}$ 54'25	0.68284 AU
min. Earth dist.	14537 May 27 23:32	19° $\mathbb{H}$ 00'47	0.68885 AU	inferior conj	14538 May 12 21:37	2° $\mathbb{H}$ 24'19	2°15'23
inferior conj	14537 May 28 14:02	18° $\mathbb{H}$ 11'00	2°44'09	minimum elong	14538 May 12 19:28	2° $\mathbb{H}$ 31'25	2°13'57
minimum elong	14537 May 28 12:14	18° $\mathbb{H}$ 17'12	2°42'48		14538 May 14 18:28	30° $\mathbb{R}$ $\mathbb{B}$	
morning rise	14537 Jun 02 19:42	12° $\mathbb{H}$ 05'34		morning rise	14538 May 18 07:31	26° $\mathbb{B}$ 27'55	
direct	14537 Jun 07 00:53	10° $\mathbb{H}$ 25'50		direct	14538 May 22 00:47	25° $\mathbb{B}$ 08'35	
morning max el	14537 Jun 15 04:16	15° $\mathbb{H}$ 03'47	20°39'19	morning max el	14538 May 29 06:09	29° $\mathbb{B}$ 07'34	19°32'16
desc. node	14537 Jun 19 19:14	20° $\mathbb{H}$ 16'10			14538 May 30 02:48	0° $\mathbb{H}$	
	14537 Jun 27 01:52	0° $\mathbb{B}$		desc. node	14538 Jun 06 16:14	9° $\mathbb{H}$ 29'13	
morning set	14537 Jul 14 14:50	26° $\mathbb{B}$ 08'20		greatest brilliancy	14538 Jun 10 21:30	15° $\mathbb{H}$ 32'23	-0.6m
	14537 Jul 17 02:20	0° $\Omega$			14538 Jun 20 12:21	0° $\mathbb{B}$	
max. Earth dist.	14537 Jul 23 02:38	9° $\Omega$ 32'34	1.43637 AU	morning set	14538 Jun 23 17:19	4° $\mathbb{B}$ 54'38	

max. Earth dist.	14538 Jul 05 17:12	23° $\overline{33}$ '18	1.45069 AU	superior conj	14539 Jun 19 10:14	9° $\overline{27}$ '56	-2°12'24
				minimum elong	14539 Jun 19 07:20	9° $\overline{16}$ '34	2°13'22
superior conj	14538 Jul 09 22:18	0° $\Omega$ 14'22	-2°09'50		14539 Jul 02 11:07	0° $\Omega$	
minimum elong	14538 Jul 10 02:50	0° $\Omega$ 32'30	2°10'37	evening rise	14539 Jul 04 22:21	3° $\Omega$ 55'56	
	14538 Jul 09 18:42	0° $\Omega$		greatest brilliancy	14539 Jul 11 20:25	14° $\Omega$ 57'28	-0.9m
evening rise	14538 Jul 23 23:06	23° $\Omega$ 12'25		asc. node	14539 Jul 18 14:59	25° $\Omega$ 22'18	
	14538 Jul 28 00:44	0° $\overline{\Pi}$			14539 Jul 21 22:43	0° $\overline{\Pi}$	
asc. node	14538 Jul 31 18:15	6° $\overline{\Pi}$ 08'59		evening max el	14539 Jul 25 19:40	4° $\overline{\Pi}$ 30'34	18°36'23
evening max el	14538 Aug 11 06:43	20° $\overline{\Pi}$ 49'05	18°10'23	retrograde	14539 Aug 01 08:16	8° $\overline{\Pi}$ 02'15	
retrograde	14538 Aug 17 15:20	24° $\overline{\Pi}$ 10'13		evening set	14539 Aug 04 13:17	7° $\overline{\Pi}$ 03'47	
evening set	14538 Aug 20 11:26	23° $\overline{\Pi}$ 27'18		inferior conj	14539 Aug 10 05:24	1° $\overline{\Pi}$ 26'36	2°37'04
inferior conj	14538 Aug 26 13:18	18° $\overline{\Pi}$ 05'18	1°57'52	minimum elong	14539 Aug 10 07:32	1° $\overline{\Pi}$ 20'03	2°36'02
minimum elong	14538 Aug 26 15:43	17° $\overline{\Pi}$ 58'32	1°56'51		14539 Aug 11 09:37	30° $\overline{\Pi}$	
min. Earth dist.	14538 Aug 29 02:47	15° $\overline{\Pi}$ 14'26	0.63646 AU	min. Earth dist.	14539 Aug 12 05:07	29° $\Omega$ 01'01	0.65587 AU
morning rise	14538 Sep 01 18:10	11° $\overline{\Pi}$ 49'00		morning rise	14539 Aug 16 00:42	25° $\Omega$ 02'39	
desc. node	14538 Sep 02 13:40	11° $\overline{\Pi}$ 13'40		desc. node	14539 Aug 20 11:11	22° $\Omega$ 37'47	
direct	14538 Sep 08 09:15	9° $\overline{\Pi}$ 16'40		direct	14539 Aug 22 10:16	22° $\Omega$ 23'32	
morning max el	14538 Sep 22 06:30	17° $\overline{\Pi}$ 17'20	27°43'13		14539 Sep 04 11:43	0° $\overline{\Pi}$	
	14538 Oct 02 21:04	0° $\overline{\Omega}$		morning max el	14539 Sep 04 17:38	0° $\overline{\Pi}$ 14'53	26°55'20
	14538 Oct 21 12:45	0° $\overline{\Pi}$			14539 Sep 26 20:31	0° $\overline{\Omega}$	
morning set	14538 Oct 27 02:33	10° $\overline{\Pi}$ 44'00		morning set	14539 Oct 10 10:13	23° $\overline{\Omega}$ 52'13	
asc. node	14538 Oct 27 20:18	12° $\overline{\Pi}$ 13'12			14539 Oct 13 13:28	0° $\overline{\Pi}$	
max. Earth dist.	14538 Oct 31 23:40	20° $\overline{\Pi}$ 47'56	1.32344 AU	max. Earth dist.	14539 Oct 14 14:24	2° $\overline{\Pi}$ 04'52	1.33779 AU
				asc. node	14539 Oct 14 16:56	2° $\overline{\Pi}$ 17'42	
superior conj	14538 Nov 03 23:15	27° $\overline{\Pi}$ 12'04	1°02'43				
minimum elong	14538 Nov 03 20:57	26° $\overline{\Pi}$ 59'34	1°03'10	superior conj	14539 Oct 19 00:43	11° $\overline{\Pi}$ 12'48	0°39'33
	14538 Nov 05 06:07	0° $\overline{\Omega}$		minimum elong	14539 Oct 18 22:49	11° $\overline{\Pi}$ 02'52	0°39'48
evening rise	14538 Nov 10 20:18	12° $\overline{\Omega}$ 10'53		evening rise	14539 Oct 26 06:30	26° $\overline{\Pi}$ 36'44	
	14538 Nov 19 17:59	0° $\overline{\Omega}$			14539 Oct 27 21:14	0° $\overline{\Omega}$	
desc. node	14538 Nov 29 10:22	14° $\overline{\Omega}$ 52'27		evening max el	14539 Nov 15 13:23	0° $\overline{\Omega}$ 00'51	21°39'28
evening max el	14538 Dec 04 00:23	19° $\overline{\Omega}$ 58'03	23°19'47		14539 Nov 15 13:02	0° $\overline{\Omega}$	
retrograde	14538 Dec 17 08:04	26° $\overline{\Omega}$ 34'58		desc. node	14539 Nov 16 07:35	0° $\overline{\Omega}$ 44'15	
evening set	14538 Dec 21 16:58	25° $\overline{\Omega}$ 53'27		retrograde	14539 Nov 27 20:10	6° $\overline{\Omega}$ 05'53	
min. Earth dist.	14538 Dec 28 10:34	22° $\overline{\Omega}$ 43'17	0.55065 AU	evening set	14539 Nov 30 20:43	5° $\overline{\Omega}$ 45'13	
inferior conj	14538 Dec 29 22:14	21° $\overline{\Omega}$ 51'32	-5°54'56	inferior conj	14539 Dec 09 14:46	1° $\overline{\Omega}$ 52'59	-5°47'53
minimum elong	14538 Dec 30 01:37	21° $\overline{\Omega}$ 46'37	5°53'42	minimum elong	14539 Dec 09 09:04	2° $\overline{\Omega}$ 00'59	5°46'12
morning rise	14539 Jan 07 11:51	18° $\overline{\Omega}$ 00'12		min. Earth dist.	14539 Dec 09 16:29	1° $\overline{\Omega}$ 50'35	0.54463 AU
direct	14539 Jan 10 06:57	17° $\overline{\Omega}$ 41'29			14539 Dec 13 02:09	30° $\overline{\Omega}$	
morning max el	14539 Jan 21 09:13	23° $\overline{\Omega}$ 00'50	20°35'46	morning rise	14539 Dec 17 22:08	28° $\overline{\Omega}$ 04'49	
asc. node	14539 Jan 23 19:41	25° $\overline{\Omega}$ 35'55		direct	14539 Dec 21 15:33	27° $\overline{\Omega}$ 34'32	
	14539 Jan 27 05:14	0° $\approx$			14539 Dec 29 13:35	0° $\overline{\Omega}$	
morning set	14539 Feb 09 05:06	23° $\approx$ 33'02		morning max el	14540 Jan 03 04:46	3° $\overline{\Omega}$ 37'22	22°12'38
	14539 Feb 12 07:44	0° $\overline{\Omega}$		asc. node	14540 Jan 10 16:58	12° $\overline{\Omega}$ 40'44	
					14540 Jan 20 15:09	0° $\approx$	
superior conj	14539 Feb 16 17:12	9° $\overline{\Omega}$ 03'28	1°07'46	morning set	14540 Jan 24 15:43	8° $\approx$ 17'32	
minimum elong	14539 Feb 16 19:50	9° $\overline{\Omega}$ 16'52	1°07'52				
max. Earth dist.	14539 Feb 22 01:07	19° $\overline{\Omega}$ 37'29	1.36081 AU	superior conj	14540 Jan 31 17:15	23° $\approx$ 21'27	1°24'16
desc. node	14539 Feb 25 11:07	26° $\overline{\Omega}$ 04'24		minimum elong	14540 Jan 31 19:22	23° $\approx$ 32'38	1°24'45
evening rise	14539 Feb 25 21:38	26° $\overline{\Omega}$ 52'49			14540 Feb 03 21:37	0° $\overline{\Omega}$	
	14539 Feb 27 14:49	0° $\overline{\Omega}$		max. Earth dist.	14540 Feb 04 14:40	1° $\overline{\Omega}$ 27'14	1.34170 AU
	14539 Mar 18 09:01	0° $\overline{\Omega}$		evening rise	14540 Feb 08 23:38	10° $\overline{\Omega}$ 08'31	
evening max el	14539 Apr 02 08:22	18° $\overline{\Omega}$ 15'55	26°03'56	desc. node	14540 Feb 12 07:41	16° $\overline{\Omega}$ 26'07	
retrograde	14539 Apr 15 01:32	25° $\overline{\Omega}$ 33'02			14540 Feb 20 02:28	0° $\overline{\Omega}$	
evening set	14539 Apr 21 05:14	23° $\overline{\Omega}$ 02'18			14540 Mar 12 23:34	0° $\overline{\Omega}$	
asc. node	14539 Apr 21 16:12	22° $\overline{\Omega}$ 38'44		evening max el	14540 Mar 14 22:10	1° $\overline{\Omega}$ 57'33	26°58'44
min. Earth dist.	14539 Apr 25 09:19	18° $\overline{\Omega}$ 37'13	0.67232 AU	retrograde	14540 Mar 28 06:37	9° $\overline{\Omega}$ 25'31	
inferior conj	14539 Apr 27 01:15	16° $\overline{\Omega}$ 32'47	1°35'43	evening set	14540 Apr 03 19:25	6° $\overline{\Omega}$ 53'35	
minimum elong	14539 Apr 26 23:15	16° $\overline{\Omega}$ 39'00	1°34'23	asc. node	14540 Apr 07 13:37	3° $\overline{\Omega}$ 15'10	
morning rise	14539 May 02 18:03	10° $\overline{\Omega}$ 46'38		min. Earth dist.	14540 Apr 07 18:19	3° $\overline{\Omega}$ 02'02	0.65766 AU
direct	14539 May 06 00:16	9° $\overline{\Omega}$ 46'14		inferior conj	14540 Apr 09 22:40	0° $\overline{\Omega}$ 31'26	0°44'25
morning max el	14539 May 12 15:09	13° $\overline{\Omega}$ 18'59	18°40'45	minimum elong	14540 Apr 09 21:31	0° $\overline{\Omega}$ 34'45	0°43'33
desc. node	14539 May 24 13:07	29° $\overline{\Omega}$ 10'58			14540 Apr 10 09:36	30° $\overline{\Omega}$	
	14539 May 25 02:01	0° $\overline{\Pi}$		morning rise	14540 Apr 16 01:04	24° $\overline{\Omega}$ 57'17	
morning set	14539 Jun 03 07:01	14° $\overline{\Pi}$ 17'15		direct	14540 Apr 18 21:25	24° $\overline{\Omega}$ 13'10	
	14539 Jun 13 08:37	0° $\overline{\Omega}$		morning max el	14540 Apr 25 05:37	27° $\overline{\Omega}$ 32'12	18°05'57
max. Earth dist.	14539 Jun 18 11:31	7° $\overline{\Omega}$ 59'13	1.45814 AU		14540 Apr 27 11:56	0° $\overline{\Omega}$	
				desc. node	14540 May 10 09:54	19° $\overline{\Omega}$ 13'45	

morning set	14540 May 13 22:35	24°♄56'25		morning set	14541 Apr 25 17:33	6°♄54'23	
	14540 May 17 01:43	0°♄		desc. node	14541 Apr 27 06:34	9°♄31'02	
superior conj	14540 May 28 19:49	18°♄42'05	-1°54'58	superior conj	14541 May 08 19:30	28°♄38'25	-1°22'33
minimum elong	14540 May 28 11:19	18°♄08'42	1°55'19	minimum elong	14541 May 08 11:32	28°♄06'13	1°22'26
max. Earth dist.	14540 May 31 07:36	22°♄36'11	1.45817 AU		14541 May 09 15:43	0°♄	
	14540 Jun 05 01:33	0°♄		max. Earth dist.	14541 May 14 03:08	7°♄08'39	1.45086 AU
evening rise	14540 Jun 13 22:28	13°♄44'20		evening rise	14541 May 24 09:58	23°♄07'53	
	14540 Jun 24 12:56	0°♄			14541 May 28 22:21	0°♄	
greatest brilliancy	14540 Jun 26 07:07	2°♄38'16	-0.7m		14541 Jun 19 07:03	0°♄	
asc. node	14540 Jul 04 11:48	14°♄07'05		asc. node	14541 Jun 21 08:42	2°♄12'43	
evening max el	14540 Jul 08 04:33	18°♄19'35	19°19'15	evening max el	14541 Jun 21 07:46	2°♄10'21	20°17'24
retrograde	14540 Jul 15 05:24	22°♄14'20		retrograde	14541 Jun 29 04:13	6°♄39'36	
evening set	14540 Jul 18 19:54	20°♄58'56		evening set	14541 Jul 03 04:50	5°♄06'47	
inferior conj	14540 Jul 24 05:41	15°♄08'02	3°00'17		14541 Jul 07 18:39	30°♄	
minimum elong	14540 Jul 24 07:01	15°♄03'40	2°59'20	inferior conj	14541 Jul 08 11:18	29°♄03'21	3°10'09
min. Earth dist.	14540 Jul 25 15:01	13°♄19'06	0.67141 AU	minimum elong	14541 Jul 08 11:39	29°♄02'09	3°09'12
morning rise	14540 Jul 29 17:33	8°♄42'50		min. Earth dist.	14541 Jul 09 06:33	27°♄57'36	0.68246 AU
direct	14540 Aug 04 18:05	6°♄06'18		morning rise	14541 Jul 13 18:10	22°♄40'59	
desc. node	14540 Aug 06 08:38	6°♄16'04		direct	14541 Jul 19 07:21	20°♄14'48	
morning max el	14540 Aug 17 04:38	13°♄32'33	25°44'00	desc. node	14541 Jul 24 06:01	21°♄47'31	
	14540 Aug 30 13:18	0°♄		morning max el	14541 Jul 30 15:07	27°♄01'25	24°18'53
	14540 Sep 18 14:32	0°♄			14541 Aug 02 09:44	0°♄	
morning set	14540 Sep 22 03:52	6°♄21'35			14541 Aug 24 03:52	0°♄	
max. Earth dist.	14540 Sep 25 19:25	13°♄09'23	1.35711 AU	morning set	14541 Sep 04 03:13	18°♄01'37	
asc. node	14540 Sep 30 13:33	22°♄25'48		max. Earth dist.	14541 Sep 07 18:28	24°♄25'55	1.37981 AU
					14541 Sep 10 19:51	0°♄	
superior conj	14540 Oct 01 17:59	24°♄48'27	0°10'59	superior conj	14541 Sep 14 23:40	7°♄50'17	-0°22'08
minimum elong	14540 Oct 01 17:20	24°♄45'08	0°11'11	minimum elong	14541 Sep 15 01:10	7°♄57'32	0°21'49
behind sun begin	14540 Oct 01 12:50	24°♄22'30		asc. node	14541 Sep 17 10:06	12°♄33'25	
behind sun end	14540 Oct 01 21:49	25°♄07'49		evening rise	14541 Sep 23 15:56	24°♄55'04	
	14540 Oct 04 07:13	0°♄			14541 Sep 26 05:50	0°♄	
evening rise	14540 Oct 09 13:52	10°♄53'39		evening max el	14541 Oct 10 05:26	22°♄03'53	19°09'38
	14540 Oct 19 15:06	0°♄		retrograde	14541 Oct 19 07:51	26°♄37'59	
evening max el	14540 Oct 27 14:16	10°♄37'54	20°13'53	desc. node	14541 Oct 20 02:12	26°♄36'09	
desc. node	14540 Nov 02 04:51	14°♄46'09		evening set	14541 Oct 21 04:40	26°♄27'15	
retrograde	14540 Nov 07 07:37	15°♄58'04		inferior conj	14541 Oct 29 16:10	22°♄14'48	-3°00'46
evening set	14540 Nov 09 10:48	15°♄46'23		minimum elong	14541 Oct 29 08:35	22°♄27'36	2°57'10
inferior conj	14540 Nov 18 08:12	11°♄49'47	-4°42'04	min. Earth dist.	14541 Nov 01 09:45	20°♄24'22	0.56023 AU
minimum elong	14540 Nov 17 22:06	12°♄04'44	4°38'23	morning rise	14541 Nov 06 09:56	17°♄38'22	
min. Earth dist.	14540 Nov 19 23:11	10°♄52'01	0.54806 AU	direct	14541 Nov 11 23:07	16°♄27'20	
morning rise	14540 Nov 26 08:39	7°♄45'51		morning max el	14541 Nov 26 01:09	23°♄36'52	25°45'37
direct	14540 Dec 01 01:49	6°♄57'44			14541 Dec 01 19:52	0°♄	
morning max el	14540 Dec 14 14:55	13°♄37'29	24°01'37	asc. node	14541 Dec 14 11:12	19°♄23'59	
	14540 Dec 27 04:09	0°♄			14541 Dec 19 23:08	0°♄	
asc. node	14540 Dec 27 14:08	0°♄41'16		morning set	14541 Dec 23 15:02	7°♄40'51	
morning set	14541 Jan 08 03:37	23°♄01'38					
	14541 Jan 11 08:44	0°♄		superior conj	14541 Dec 30 09:05	22°♄33'35	1°37'57
superior conj	14541 Jan 14 23:19	7°♄53'34	1°34'14	minimum elong	14541 Dec 30 09:12	22°♄34'14	1°38'57
minimum elong	14541 Jan 15 00:30	8°♄00'03	1°35'02	max. Earth dist.	14541 Dec 31 16:15	25°♄26'06	1.31662 AU
max. Earth dist.	14541 Jan 17 12:08	13°♄22'05	1.32676 AU		14542 Jan 02 18:12	0°♄	
evening rise	14541 Jan 22 13:13	23°♄51'53		evening rise	14542 Jan 06 11:29	7°♄55'56	
	14541 Jan 25 15:58	0°♄		desc. node	14542 Jan 16 00:58	26°♄24'14	
desc. node	14541 Jan 29 04:18	6°♄34'38			14542 Jan 18 02:35	0°♄	
	14541 Feb 12 17:01	0°♄		evening max el	14542 Feb 07 20:53	28°♄04'51	27°31'19
evening max el	14541 Feb 25 11:05	15°♄18'13	27°30'03		14542 Feb 10 00:03	0°♄	
retrograde	14541 Mar 11 04:48	22°♄46'44		retrograde	14542 Feb 21 19:10	5°♄27'35	
evening set	14541 Mar 17 23:55	20°♄20'06		evening set	14542 Feb 28 16:05	3°♄13'32	
min. Earth dist.	14541 Mar 21 19:15	16°♄59'04	0.63946 AU	min. Earth dist.	14542 Mar 04 10:23	0°♄17'37	0.61861 AU
inferior conj	14541 Mar 24 11:07	14°♄12'56	-0°19'14		14542 Mar 04 18:15	30°♄	
minimum elong	14541 Mar 24 11:43	14°♄11'23	0°19'08	inferior conj	14542 Mar 07 11:25	27°♄29'08	-1°34'50
asc. node	14541 Mar 25 11:05	13°♄11'05		minimum elong	14542 Mar 07 14:44	27°♄21'27	1°33'20
morning rise	14541 Mar 31 01:45	8°♄53'14		asc. node	14542 Mar 12 08:31	23°♄32'44	
direct	14541 Apr 02 13:31	8°♄22'11		morning rise	14542 Mar 14 16:21	22°♄27'00	
morning max el	14541 Apr 08 23:00	11°♄39'04	17°48'23	direct	14542 Mar 16 21:16	22°♄05'30	
	14541 Apr 21 15:31	0°♄		morning max el	14542 Mar 23 16:15	25°♄31'16	17°48'36

	14542 Mar 27 10:52	0°♿			14543 Mar 20 21:08	0°♿	
morning set	14542 Apr 08 10:50	19°♿55'04		morning set	14543 Mar 22 20:19	3°♿39'31	
desc. node	14542 Apr 14 03:11	29°♿58'16		desc. node	14543 Mar 31 23:43	20°♿30'43	
	14542 Apr 14 03:34	0°♿					
superior conj	14542 Apr 19 18:15	9°♿39'50	-0°43'45	superior conj	14543 Apr 01 16:14	21°♿44'41	-0°05'35
minimum elong	14542 Apr 19 14:07	9°♿22'20	0°43'42	minimum elong	14543 Apr 01 15:46	21°♿42'34	0°05'47
max. Earth dist.	14542 Apr 26 19:34	21°♿20'21	1.43693 AU	behind sun begin	14543 Apr 01 08:33	21°♿10'21	
	14542 May 02 06:01	0°♿		behind sun end	14543 Apr 01 22:59	22°♿14'44	
evening rise	14542 May 04 01:10	2°♿48'30			14543 Apr 06 09:21	0°♿	
	14542 May 22 09:26	0°♿		max. Earth dist.	14543 Apr 09 07:00	4°♿55'32	1.41784 AU
evening max el	14542 Jun 04 05:02	16°♿01'09	21°28'01	evening rise	14543 Apr 14 08:34	13°♿15'07	
asc. node	14542 Jun 08 05:41	19°♿26'38			14543 Apr 25 04:01	0°♿	
retrograde	14542 Jun 13 02:52	21°♿12'52		evening max el	14543 May 17 21:37	29°♿52'27	22°46'56
evening set	14542 Jun 17 14:14	19°♿23'15			14543 May 18 00:39	0°♿	
inferior conj	14542 Jun 22 20:01	13°♿08'46	3°08'24	asc. node	14543 May 26 02:48	5°♿33'02	
minimum elong	14542 Jun 22 19:24	13°♿10'56	3°07'20	retrograde	14543 May 27 23:47	5°♿48'45	
min. Earth dist.	14542 Jun 23 01:48	12°♿48'38	0.68871 AU	evening set	14543 Jun 01 22:23	3°♿43'53	
morning rise	14542 Jun 28 00:23	6°♿51'40			14543 Jun 05 07:07	30°♿	
direct	14542 Jul 03 01:08	4°♿41'22		inferior conj	14543 Jun 07 05:49	27°♿20'34	2°56'01
desc. node	14542 Jul 11 03:19	8°♿46'36		minimum elong	14543 Jun 07 04:23	27°♿25'35	2°54'46
morning max el	14542 Jul 13 02:33	10°♿38'38	22°49'23	min. Earth dist.	14543 Jun 06 22:38	27°♿45'33	0.69009 AU
	14542 Jul 28 10:32	0°♿		morning rise	14543 Jun 12 10:15	21°♿10'22	
morning set	14542 Aug 16 03:59	28°♿42'24		direct	14543 Jun 16 22:24	19°♿19'05	
	14542 Aug 16 22:49	0°♿		morning max el	14543 Jun 25 17:42	24°♿25'00	21°23'59
max. Earth dist.	14542 Aug 20 17:42	6°♿21'17	1.40352 AU	desc. node	14543 Jun 28 00:31	26°♿50'49	
					14543 Jun 30 16:36	0°♿	
superior conj	14542 Aug 28 13:41	20°♿08'35	-0°57'45	morning set	14543 Jul 21 19:24	0°♿	
minimum elong	14542 Aug 28 18:05	20°♿28'37	0°57'19	max. Earth dist.	14543 Jul 27 04:20	8°♿20'28	
	14542 Sep 02 21:25	0°♿			14543 Aug 02 21:46	19°♿08'22	1.42547 AU
asc. node	14542 Sep 04 06:38	2°♿36'52			14543 Aug 09 09:41	0°♿	
evening rise	14542 Sep 07 09:35	8°♿32'48		superior conj	14543 Aug 10 07:41	1°♿34'15	-1°32'15
	14542 Sep 19 18:37	0°♿		minimum elong	14543 Aug 10 14:41	2°♿04'22	1°31'59
evening max el	14542 Sep 23 08:25	4°♿16'12	18°27'25	evening rise	14543 Aug 21 14:53	21°♿36'56	
retrograde	14542 Oct 01 03:04	8°♿12'37		asc. node	14543 Aug 22 03:12	22°♿32'43	
evening set	14542 Oct 03 02:56	7°♿57'49			14543 Aug 26 06:46	0°♿	
desc. node	14542 Oct 06 23:40	6°♿14'44		evening max el	14543 Sep 06 19:05	17°♿06'15	18°05'52
inferior conj	14542 Oct 10 21:23	3°♿24'53	-1°14'45	retrograde	14543 Sep 13 16:18	20°♿37'47	
minimum elong	14542 Oct 10 18:28	3°♿30'39	1°13'05	evening set	14543 Sep 15 23:13	20°♿14'42	
min. Earth dist.	14542 Oct 14 03:06	0°♿52'11	0.57893 AU	inferior conj	14543 Sep 22 23:48	15°♿21'20	0°16'34
	14542 Oct 15 07:40	30°♿		minimum elong	14543 Sep 23 00:21	15°♿20'05	0°16'31
morning rise	14542 Oct 18 06:30	28°♿10'45		desc. node	14543 Sep 23 21:11	14°♿31'58	
direct	14542 Oct 24 10:48	26°♿32'53		min. Earth dist.	14543 Sep 26 05:07	12°♿25'01	0.60120 AU
	14542 Nov 02 20:06	0°♿		morning rise	14543 Sep 29 22:15	9°♿35'23	
morning max el	14542 Nov 07 18:01	4°♿06'46	27°06'04	direct	14543 Oct 06 11:50	7°♿31'14	
	14542 Nov 26 14:52	0°♿		morning max el	14543 Oct 20 18:42	15°♿22'28	27°50'48
asc. node	14542 Dec 01 08:10	8°♿37'15			14543 Nov 01 16:51	0°♿	
morning set	14542 Dec 08 00:10	22°♿09'34		asc. node	14543 Nov 18 05:03	28°♿12'44	
	14542 Dec 11 14:30	0°♿			14543 Nov 19 02:35	0°♿	
superior conj	14542 Dec 14 20:30	7°♿14'46	1°35'39	morning set	14543 Nov 22 05:14	6°♿23'19	
minimum elong	14542 Dec 14 19:35	7°♿09'38	1°36'40	max. Earth dist.	14543 Nov 28 07:29	19°♿37'10	1.31193 AU
max. Earth dist.	14542 Dec 14 23:54	7°♿33'48	1.31160 AU	superior conj	14543 Nov 29 07:44	21°♿52'08	1°27'29
evening rise	14542 Dec 21 15:53	22°♿13'39		minimum elong	14543 Nov 29 05:59	21°♿42'21	1°28'20
	14542 Dec 25 09:48	0°♿			14543 Dec 02 23:18	0°♿	
desc. node	14543 Jan 02 21:45	15°♿46'35		evening rise	14543 Dec 06 00:23	6°♿40'15	
	14543 Jan 12 06:35	0°♿			14543 Dec 18 00:17	0°♿	
evening max el	14543 Jan 21 00:52	10°♿04'43	26°58'19	desc. node	14543 Dec 20 18:39	4°♿31'37	
retrograde	14543 Feb 04 00:38	17°♿18'26		evening max el	14544 Jan 02 21:01	21°♿12'21	25°51'29
evening set	14543 Feb 10 16:38	15°♿24'39		retrograde	14544 Jan 16 19:21	28°♿14'42	
min. Earth dist.	14543 Feb 14 15:02	12°♿44'34	0.59650 AU	evening set	14544 Jan 22 21:42	26°♿47'57	
inferior conj	14543 Feb 17 19:55	10°♿09'39	-2°59'32	min. Earth dist.	14544 Jan 27 10:01	24°♿09'58	0.57535 AU
minimum elong	14543 Feb 18 02:33	9°♿56'15	2°56'38	inferior conj	14544 Jan 30 09:13	22°♿05'30	-4°24'46
morning rise	14543 Feb 25 15:47	5°♿27'52		minimum elong	14544 Jan 30 18:12	21°♿49'46	4°21'25
asc. node	14543 Feb 27 05:59	5°♿13'09		morning rise	14544 Feb 07 17:37	17°♿45'21	
direct	14543 Feb 27 16:21	5°♿12'25		direct	14544 Feb 09 18:40	17°♿32'13	
morning max el	14543 Mar 07 05:50	8°♿58'01	18°07'39	asc. node	14544 Feb 14 03:26	18°♿35'56	

morning max el	14544 Feb 18 11:47	21°  48'11	18°47'15			14545 Jan 25 20:49	0° 	
	14544 Feb 24 20:30	0° 		morning max el		14545 Jan 31 05:57	3°  50'15	19°49'28
morning set	14544 Mar 05 17:06	17°  53'27		asc. node		14545 Jan 31 00:50	3°  37'59	
	14544 Mar 11 22:26	0° 				14545 Feb 16 16:26	0° 	
				morning set		14545 Feb 17 21:27	2°  26'13	
superior conj	14544 Mar 14 09:40	4°  41'53	0°28'00					
minimum elong	14544 Mar 14 11:26	4°  50'15	0°27'44	superior conj		14545 Feb 25 18:05	18°  19'30	0°55'12
desc. node	14544 Mar 17 20:13	11°  04'58		minimum elong		14545 Feb 25 20:42	18°  32'30	0°55'07
max. Earth dist.	14544 Mar 21 14:08	17°  04'57	1.39579 AU			14545 Mar 03 19:39	0° 	
evening rise	14544 Mar 25 13:07	24°  03'29		max. Earth dist.		14545 Mar 03 20:41	0°  04'47	1.37317 AU
	14544 Mar 28 18:38	0° 		desc. node		14545 Mar 04 16:44	1°  03'741	
	14544 Apr 17 22:03	0° 		evening rise		14545 Mar 07 13:56	6°  05'127	
evening max el	14544 Apr 29 11:45	13°  45'32	24°08'13			14545 Mar 21 15:36	0° 	
retrograde	14544 May 10 17:33	20°  21'06		evening max el		14545 Apr 12 01:24	27°  39'34	25°24'53
asc. node	14544 May 12 00:02	20°  14'01				14545 Apr 14 14:18	0° 	
evening set	14544 May 16 03:43	18°  03'27		retrograde		14545 Apr 24 07:00	4°  14'11	
min. Earth dist.	14544 May 20 18:53	12°  41'46	0.68676 AU	asc. node		14545 Apr 28 21:21	3°  15'52	
inferior conj	14544 May 21 14:46	11°  34'24	2°33'17	evening set		14545 Apr 30 04:35	2°  17'05	
minimum elong	14544 May 21 12:46	11°  41'11	2°31'53			14545 May 02 11:35	30°  08'08	
morning rise	14544 May 26 21:53	5°  32'24		min. Earth dist.		14545 May 04 12:22	27°  31'42	0.67887 AU
direct	14544 May 30 21:52	4°  01'22		inferior conj		14545 May 05 20:56	25°  46'28	1°59'58
morning max el	14544 Jun 07 15:07	8°  21'42	20°08'59	minimum elong		14545 May 05 18:47	25°  53'26	1°58'32
desc. node	14544 Jun 13 21:35	15°  42'20		morning rise		14545 May 11 09:24	19°  54'04	
	14544 Jun 24 00:45	0° 		direct		14545 May 14 21:57	18°  42'49	
morning set	14544 Jul 05 10:00	17°  11'44		morning max el		14545 May 21 20:02	22°  28'55	19°08'23
	14544 Jul 13 15:01	0° 				14545 May 28 02:52	0° 	
max. Earth dist.	14544 Jul 15 08:30	2°  44'42	1.44320 AU	desc. node		14545 May 31 18:32	5°  10'38	
				greatest brilliancy		14545 Jun 03 18:41	9°  13'34'34	-0.7m
superior conj	14544 Jul 21 02:20	12°  00'30	-1°59'52	morning set		14545 Jun 14 14:46	26°  10'06'39	
minimum elong	14544 Jul 21 09:15	12°  28'44	2°00'15			14545 Jun 17 03:13	0° 	
	14544 Jul 31 20:12	0° 		max. Earth dist.		14545 Jun 28 01:16	16°  59'17	1.45479 AU
evening rise	14544 Aug 03 02:50	3°  05'42'24						
asc. node	14544 Aug 07 23:50	12°  07'16'11		superior conj		14545 Jun 30 22:59	21°  53'27	-2°13'23
	14544 Aug 20 00:11	0° 		minimum elong		14545 Jul 01 00:40	21°  54'05	2°14'22
evening max el	14544 Aug 20 09:19	0°  23'05	18°03'30			14545 Jul 06 06:34	0° 	
retrograde	14544 Aug 26 19:35	3°  43'44		evening rise		14545 Jul 15 16:26	15°  14'06	
evening set	14544 Aug 29 10:49	3°  48'47				14545 Jul 24 18:29	0° 	
	14544 Sep 02 19:04	30°  08'08		asc. node		14545 Jul 25 20:32	1°  42'22	
inferior conj	14544 Sep 04 19:59	27°  06'39	1°26'50	evening max el		14545 Aug 03 23:37	13°  07'57	18°19'17
minimum elong	14544 Sep 04 22:08	27°  51'01	1°25'58	retrograde		14545 Aug 10 08:40	17°  09'36	
min. Earth dist.	14544 Sep 07 16:36	24°  58'16	0.62410 AU	evening set		14545 Aug 13 08:37	16°  13'07	
desc. node	14544 Sep 09 18:44	23°  00'54		inferior conj		14545 Aug 19 05:54	11°  03'21	2°16'35
morning rise	14544 Sep 11 07:06	21°  04'52		minimum elong		14545 Aug 19 08:17	10°  06'23	2°15'32
direct	14544 Sep 17 23:29	19°  24'19		min. Earth dist.		14545 Aug 21 13:37	8°  21'50	0.64521 AU
morning max el	14544 Oct 02 01:23	27°  23'52	27°56'26	morning rise		14545 Aug 25 06:30	4°  43'08	
	14544 Oct 04 12:51	0° 		desc. node		14545 Aug 27 16:15	3°  08'33	
	14544 Oct 25 10:23	0° 		direct		14545 Aug 31 19:50	2°  06'56	
asc. node	14544 Nov 04 01:50	18°  03'22		morning max el		14545 Sep 14 11:40	10°  04'20	27°26'14
morning set	14544 Nov 05 04:04	20°  16'23				14545 Sep 30 04:04	0° 	
	14544 Nov 09 19:09	0° 				14545 Oct 17 20:15	0° 	
max. Earth dist.	14544 Nov 10 11:16	1°  27'06	1.31770 AU	morning set		14545 Oct 19 18:10	3°  14'01	
				asc. node		14545 Oct 21 22:32	8°  04'10	
superior conj	14544 Nov 12 16:52	6°  27'48	1°13'27	max. Earth dist.		14545 Oct 24 07:45	12°  05'31	1.32898 AU
minimum elong	14544 Nov 12 14:37	6°  27'28	1°14'03					
evening rise	14544 Nov 19 11:02	21°  27'30		superior conj		14545 Oct 27 21:50	20°  13'21'6	0°53'36
	14544 Nov 23 15:55	0° 		minimum elong		14545 Oct 27 19:37	20°  12'23	0°53'56
desc. node	14544 Dec 06 15:40	22°  25'11				14545 Nov 01 06:54	0° 	
	14544 Dec 12 20:12	0° 		evening rise		14545 Nov 03 21:58	5°  27'39'43	
evening max el	14544 Dec 14 09:31	1°  33'35	24°18'47			14545 Nov 16 18:14	0° 	
retrograde	14544 Dec 28 01:05	8°  21'09		desc. node		14545 Nov 23 12:48	9°  08'14	
evening set	14545 Jan 02 03:44	7°  24'02		evening max el		14545 Nov 25 19:30	11°  03'21'01	22°35'56
min. Earth dist.	14545 Jan 07 21:11	4°  31'10	0.55789 AU	retrograde		14545 Dec 08 17:57	17°  03'56'42	
inferior conj	14545 Jan 10 01:37	3°  33'02	-5°33'02	evening set		14545 Dec 12 12:55	17°  03'25'18	
minimum elong	14545 Jan 10 08:51	2°  59'42	5°30'56	min. Earth dist.		14545 Dec 20 03:33	13°  58'29	0.54703 AU
	14545 Jan 15 23:43	30°  08'08		inferior conj		14545 Dec 21 00:07	13°  29'29	-5°59'29
morning rise	14545 Jan 18 15:53	29°  10'35		minimum elong		14545 Dec 20 23:38	13°  30'10	5°58'27
direct	14545 Jan 21 01:43	28°  55'20		morning rise		14545 Dec 29 11:35	9°  41'49	

direct	14546 Jan 01 15:49	9°  18'50		direct	14546 Dec 12 23:05	18°  56'08	
morning max el	14546 Jan 13 09:28	14°  56'34	21°14'46	morning max el	14546 Dec 26 00:11	25°  15'09	22°58'25
asc. node	14546 Jan 17 22:10	20°  03'10			14546 Dec 30 08:57	0° 	
	14546 Jan 24 10:45	0° 		asc. node	14547 Jan 04 19:23	7°  33'50	
morning set	14546 Feb 02 06:27	17°  08'36			14547 Jan 16 20:18	0° 	
	14546 Feb 08 09:23	0° 		morning set	14547 Jan 17 17:52	1°  54'08	
superior conj	14546 Feb 09 13:23	2°  25'30	1°15'35	superior conj	14547 Jan 24 16:21	16°  50'57	1°29'16
minimum elong	14546 Feb 09 15:52	2°  38'21	1°15'51	minimum elong	14547 Jan 24 18:06	17°  00'21	1°29'54
max. Earth dist.	14546 Feb 14 06:50	12°  00'02	1.35224 AU	max. Earth dist.	14547 Jan 27 23:45	23°  51'04	1.33479 AU
evening rise	14546 Feb 18 07:45	19°  47'00			14547 Jan 30 23:46	0° 	
desc. node	14546 Feb 19 13:15	22°  04'29		evening rise	14547 Feb 01 15:04	3°  15'31	
	14546 Feb 23 23:14	0° 		desc. node	14547 Feb 06 09:51	12°  21'20	
	14546 Mar 15 16:14	0° 			14547 Feb 16 19:27	0° 	
evening max el	14546 Mar 25 15:06	11°  27'34	26°29'41	evening max el	14547 Mar 08 04:29	25°  00'48	27°15'11
retrograde	14546 Apr 07 15:11	18°  50'00			14547 Mar 14 08:25	0° 	
evening set	14546 Apr 13 23:10	16°  17'59		retrograde	14547 Mar 21 17:25	2°  30'22	
asc. node	14546 Apr 15 18:44	14°  38'01		evening set	14547 Mar 28 09:30	29°  59'28	
min. Earth dist.	14546 Apr 18 00:54	12°  07'39	0.66660 AU		14547 Mar 28 09:13	30°  00'00	
inferior conj	14546 Apr 19 22:11	9°  51'04	1°15'25	min. Earth dist.	14547 Apr 01 06:31	26°  21'42	0.65035 AU
minimum elong	14546 Apr 19 20:27	9°  56'19	1°14'15	asc. node	14547 Apr 02 16:09	24°  49'23	
morning rise	14546 Apr 25 18:44	4°  09'54		inferior conj	14547 Apr 03 16:05	23°  42'46	0°18'55
direct	14546 Apr 28 20:43	3°  16'40		minimum elong	14547 Apr 03 15:34	23°  44'13	0°18'24
morning max el	14546 May 05 07:37	6°  41'41	18°23'56	morning rise	14547 Apr 09 23:26	18°  14'46	
desc. node	14546 May 18 15:21	24°  59'47		direct	14547 Apr 12 15:56	17°  36'42	
	14546 May 21 19:42	0° 		morning max el	14547 Apr 18 23:43	20°  53'17	17°56'22
morning set	14546 May 25 14:28	5°  11'59'08			14547 Apr 26 01:56	0° 	
	14546 Jun 09 21:12	0° 		desc. node	14547 May 05 12:04	15°  09'00	
				morning set	14547 May 06 17:56	17°  12'14	
					14547 May 14 13:34	0° 	
superior conj	14546 Jun 10 07:35	0°  40'32	-2°07'18	superior conj	14547 May 20 21:23	10°  07'53	-1°42'32
minimum elong	14546 Jun 10 01:38	0°  17'19	2°08'04	minimum elong	14547 May 20 12:26	9°  02'23	1°42'37
max. Earth dist.	14546 Jun 10 21:06	1°  33'14	1.45910 AU	max. Earth dist.	14547 May 24 17:03	16°  09'12	1.45588 AU
evening rise	14546 Jun 26 05:09	25°  31'52			14547 Jun 02 14:55	0° 	
	14546 Jun 29 01:28	0° 		evening rise	14547 Jun 05 21:59	5°  03'58	
greatest brilliancy	14546 Jul 05 16:44	10°  21'11	-0.8m	greatest brilliancy	14547 Jun 20 00:40	26°  21'50	-0.6m
asc. node	14546 Jul 12 17:17	20°  44'21			14547 Jun 22 13:13	0° 	
evening max el	14546 Jul 18 11:02	27°  42'53	18°52'35	asc. node	14547 Jun 29 14:07	9°  13'28	
	14546 Jul 21 04:33	0° 		evening max el	14547 Jul 01 17:28	11°  32'07	19°42'17
retrograde	14546 Jul 25 03:49	1°  22'58		retrograde	14547 Jul 09 02:01	15°  40'50	
evening set	14546 Jul 28 12:50	0°  17'17		evening set	14547 Jul 12 20:40	14°  18'05	
	14546 Jul 28 22:57	30°  00'00		inferior conj	14547 Jul 18 04:40	8°  21'32	3°06'02
inferior conj	14546 Aug 03 01:50	24°  33'49	2°48'41	minimum elong	14547 Jul 18 05:36	8°  18'26	3°05'04
minimum elong	14546 Aug 03 03:40	24°  28'00	2°47'41	min. Earth dist.	14547 Jul 19 07:56	6°  50'22	0.67658 AU
min. Earth dist.	14546 Aug 04 19:18	22°  23'03	0.66296 AU	morning rise	14547 Jul 23 14:04	1°  56'53	
morning rise	14546 Aug 08 17:41	18°  08'42			14547 Jul 26 12:47	30°  00'00	
direct	14546 Aug 14 23:38	15°  29'58		direct	14547 Jul 29 09:50	29°  23'59	
desc. node	14546 Aug 14 13:42	15°  30'37		desc. node	14547 Aug 01 11:07	29°  25'27	
morning max el	14546 Aug 27 23:07	23°  41'22'21	26°27'26		14547 Aug 01 11:43	0° 	
	14546 Sep 02 23:58	0° 		morning max el	14547 Aug 10 09:59	6°  35'51	25°09'00
	14546 Sep 23 11:53	0° 			14547 Aug 28 14:39	0° 	
morning set	14546 Oct 02 20:25	16°  43'19		morning set	14547 Sep 15 06:51	28°  46'14	
max. Earth dist.	14546 Oct 06 18:37	24°  09'21	1.34549 AU		14547 Sep 15 23:19	0° 	
asc. node	14546 Oct 08 19:10	28°  10'54		max. Earth dist.	14547 Sep 18 20:22	5°  15'09	1.36639 AU
	14546 Oct 09 16:46	0° 					
superior conj	14546 Oct 11 20:12	4°  11'23'32	0°28'04	superior conj	14547 Sep 25 08:57	17°  45'34	-0°02'37
minimum elong	14546 Oct 11 18:43	4°  15'54	0°28'16	minimum elong	14547 Sep 25 09:06	17°  46'20	0°02'23
evening rise	14546 Oct 19 07:17	20°  11'03'09		behind sun begin	14547 Sep 25 02:43	17°  46'14'46	
	14546 Oct 24 04:35	0° 		behind sun end	14547 Sep 25 15:30	18°  46'17'57	
evening max el	14546 Nov 07 12:41	21°  46'08	21°00'36	asc. node	14547 Sep 25 15:44	18°  46'19'07	
desc. node	14546 Nov 10 10:02	24°  46'17'06			14547 Oct 01 10:45	0° 	
retrograde	14546 Nov 19 04:35	27°  46'33'44		evening rise	14547 Oct 03 12:43	4°  11'14'12	
evening set	14546 Nov 21 18:11	27°  46'18'06			14547 Oct 18 09:04	0° 	
inferior conj	14546 Nov 30 15:15	23°  46'25'12	-5°26'18	evening max el	14547 Oct 20 19:42	2°  43'33	19°43'53
minimum elong	14546 Nov 30 06:43	23°  46'37'19	5°23'42	desc. node	14547 Oct 28 07:21	7°  43'25'07	
min. Earth dist.	14546 Dec 01 09:18	22°  46'59'34	0.54493 AU	retrograde	14547 Oct 30 20:24	7°  43'43'54	
morning rise	14546 Dec 08 19:35	19°  46'33'01					



evening set	14547 Nov 01 19:01	7°♊33'29		evening set	14548 Oct 13 01:30	18°♍34'56	
inferior conj	14547 Nov 10 13:37	3°♊31'20	-4°01'33	desc. node	14548 Oct 14 04:45	18°♍16'54	
minimum elong	14547 Nov 10 03:59	3°♊46'21	3°57'34	inferior conj	14548 Oct 21 06:14	14°♍14'23	-2°14'53
min. Earth dist.	14547 Nov 12 17:39	2°♊10'16	0.55223 AU	minimum elong	14548 Oct 21 00:39	14°♍24'28	2°12'02
	14547 Nov 16 15:55	30°♋♌		min. Earth dist.	14548 Oct 24 06:56	12°♍04'00	0.56760 AU
morning rise	14547 Nov 18 11:16	29°♍14'36		morning rise	14548 Oct 28 20:38	9°♍21'54	
direct	14547 Nov 23 13:18	28°♍17'21		direct	14548 Nov 03 17:13	7°♍59'20	
	14547 Nov 30 07:10	0°♊		morning max el	14548 Nov 17 21:52	15°♍20'07	26°23'27
morning max el	14547 Dec 07 09:29	5°♊11'23	24°47'30		14548 Nov 29 17:37	0°♊	
asc. node	14547 Dec 22 16:31	25°♊53'44		asc. node	14548 Dec 08 13:33	14°♊50'34	
	14547 Dec 24 23:33	0°♊			14548 Dec 16 03:00	0°♊	
morning set	14548 Jan 02 05:46	16°♊36'41		morning set	14548 Dec 16 16:25	1°♊11'46	
	14548 Jan 08 08:23	0°♋					
superior conj	14548 Jan 09 00:16	1°♋27'26	1°36'33	superior conj	14548 Dec 23 11:00	16°♊08'43	1°37'42
minimum elong	14548 Jan 09 01:01	1°♋31'30	1°37'27	minimum elong	14548 Dec 23 10:40	16°♊06'50	1°38'43
max. Earth dist.	14548 Jan 11 00:04	5°♋48'42	1.32183 AU	max. Earth dist.	14548 Dec 24 06:00	17°♊54'33	1.31390 AU
evening rise	14548 Jan 16 08:41	17°♋08'32			14548 Dec 29 18:52	0°♋	
	14548 Jan 22 23:14	0°♋		evening rise	14548 Dec 30 09:52	1°♋19'20	
desc. node	14548 Jan 24 06:30	2°♋22'35		desc. node	14549 Jan 10 03:15	22°♋01'40	
	14548 Feb 11 08:04	0°♌			14549 Jan 14 22:22	0°♋	
evening max el	14548 Feb 18 16:14	8°♌08'07	27°34'31	evening max el	14549 Jan 31 00:05	20°♋36'52	27°21'37
retrograde	14548 Mar 03 12:44	15°♌35'39		retrograde	14549 Feb 13 23:37	27°♋55'54	
evening set	14548 Mar 10 09:09	13°♌13'19		evening set	14549 Feb 20 19:08	25°♋49'57	
min. Earth dist.	14548 Mar 14 03:32	10°♌03'45	0.63081 AU	min. Earth dist.	14549 Feb 24 14:30	23°♋01'45	0.60921 AU
inferior conj	14548 Mar 16 23:47	7°♌14'34	-0°49'56	inferior conj	14549 Feb 27 17:52	20°♋17'11	-2°10'01
minimum elong	14548 Mar 17 01:25	7°♌10'29	0°49'18	minimum elong	14549 Feb 27 22:34	20°♋06'53	2°07'53
asc. node	14548 Mar 19 13:35	4°♌48'09		asc. node	14549 Mar 06 11:03	15°♋38'18	
morning rise	14548 Mar 23 20:20	2°♌02'06		morning rise	14549 Mar 07 05:11	15°♋23'06	
direct	14548 Mar 26 04:48	1°♌35'41		direct	14549 Mar 09 07:45	15°♋04'38	
morning max el	14548 Apr 01 17:29	4°♌55'20	17°46'14	morning max el	14549 Mar 16 09:36	18°♋37'53	17°54'15
morning set	14548 Apr 17 23:10	29°♌39'08			14549 Mar 24 15:35	0°♌	
	14548 Apr 18 04:00	0°♌		morning set	14549 Apr 01 00:05	13°♌00'53	
desc. node	14548 Apr 21 08:44	5°♌31'06		desc. node	14549 Apr 08 05:19	26°♌01'05	
					14549 Apr 10 11:40	0°♌	
superior conj	14548 Apr 30 06:27	20°♌31'13	-1°06'24	superior conj	14549 Apr 11 15:23	2°♌00'23	-0°27'11
minimum elong	14548 Apr 29 23:57	20°♌04'29	1°06'14	minimum elong	14549 Apr 11 12:56	1°♌49'49	0°27'14
	14548 May 06 02:46	0°♍		max. Earth dist.	14549 Apr 19 01:20	14°♌30'15	1.42934 AU
max. Earth dist.	14548 May 06 10:58	0°♍32'46	1.44560 AU	evening rise	14549 Apr 25 06:06	24°♌28'08	
evening rise	14548 May 15 09:01	14°♍29'44			14549 Apr 28 19:18	0°♍	
	14548 May 25 15:52	0°♍			14549 May 19 15:51	0°♍	
evening max el	14548 Jun 13 18:05	25°♍23'09	20°46'14	evening max el	14549 May 27 13:17	9°♍14'35	22°01'00
asc. node	14548 Jun 15 11:03	26°♍59'03		asc. node	14549 Jun 02 08:06	13°♍46'30	
	14548 Jun 20 15:22	0°♎		retrograde	14549 Jun 05 22:56	14°♍44'59	
retrograde	14548 Jun 22 01:00	0°♎10'05		evening set	14549 Jun 10 15:02	12°♍48'45	
	14548 Jun 23 09:37	30°♋♌		inferior conj	14549 Jun 15 21:17	6°♍30'30	3°04'24
evening set	14548 Jun 26 06:00	28°♍30'14		minimum elong	14549 Jun 15 20:18	6°♍33'58	3°03'16
inferior conj	14548 Jul 01 11:53	22°♍22'00	3°10'47	min. Earth dist.	14549 Jun 15 21:34	6°♍29'31	0.68992 AU
minimum elong	14548 Jul 01 11:49	22°♍22'14	3°09'46	morning rise	14549 Jun 21 01:22	0°♍16'13	
min. Earth dist.	14548 Jul 02 01:25	21°♍35'12	0.68564 AU		14549 Jun 21 09:09	30°♋♌	
morning rise	14548 Jul 06 17:20	16°♍01'26		direct	14549 Jun 25 20:51	28°♌13'29	
direct	14548 Jul 12 01:21	13°♍41'12			14549 Jun 30 20:54	0°♍	
desc. node	14548 Jul 18 08:27	16°♍11'10		desc. node	14549 Jul 05 05:43	3°♍40'12	
morning max el	14548 Jul 22 20:29	20°♍08'12	23°40'48	morning max el	14549 Jul 05 08:56	3°♍48'13	22°12'06
	14548 Jul 31 06:34	0°♎			14549 Jul 25 08:22	0°♎	
	14548 Aug 20 18:49	0°♎		morning set	14549 Aug 07 11:15	20°♎15'15	
morning set	14548 Aug 26 21:03	10°♎02'19		max. Earth dist.	14549 Aug 12 19:03	28°♎59'43	1.41327 AU
max. Earth dist.	14548 Aug 30 18:11	16°♎43'11	1.38988 AU		14549 Aug 13 09:25	0°♎	
superior conj	14548 Sep 07 08:31	0°♏30'17	-0°37'06	superior conj	14549 Aug 20 14:32	12°♎27'15	-1°12'49
minimum elong	14548 Sep 07 11:11	0°♏42'52	0°36'43	minimum elong	14549 Aug 20 20:11	12°♎52'20	1°12'24
	14548 Sep 07 02:03	0°♏		asc. node	14549 Aug 29 08:51	28°♎26'11	
asc. node	14548 Sep 11 12:17	8°♏25'31			14549 Aug 30 05:00	0°♏	
evening rise	14548 Sep 16 11:36	18°♏06'26		evening rise	14549 Aug 31 00:29	1°♏30'45	
	14548 Sep 22 17:53	0°♏		evening max el	14549 Sep 15 23:15	27°♏00'09	18°15'52
evening max el	14548 Oct 02 16:29	14°♏30'42	18°49'09		14549 Sep 20 01:30	0°♏	
retrograde	14548 Oct 11 04:05	18°♏46'53		retrograde	14549 Sep 23 07:15	0°♏44'04	




































































































































evening set	14549 Sep 25 10:01	0° $\mathbb{M}$ 26'04		14550 Aug 23 01:33	0° $\underline{\mathbf{a}}$	
	14549 Sep 26 15:32	30° $\mathbf{R}\underline{\mathbf{a}}$		evening max el	14550 Aug 30 11:49	10° $\underline{\mathbf{a}}$ 02'06 18°02'32
desc. node	14549 Oct 01 02:12	27° $\underline{\mathbf{a}}$ 11'23		retrograde	14550 Sep 06 03:10	13° $\underline{\mathbf{a}}$ 27'32
inferior conj	14549 Oct 02 20:41	25° $\underline{\mathbf{a}}$ 44'07 -0°33'36		evening set	14550 Sep 08 13:32	12° $\underline{\mathbf{a}}$ 59'47
minimum elong	14549 Oct 02 19:28	25° $\underline{\mathbf{a}}$ 46'41 0°32'46		inferior conj	14550 Sep 15 07:06	7° $\underline{\mathbf{a}}$ 57'48 0°49'01
min. Earth dist.	14549 Oct 06 03:28	22° $\underline{\mathbf{a}}$ 59'04 0.58817 AU		minimum elong	14550 Sep 15 08:32	7° $\underline{\mathbf{a}}$ 54'18 0°48'32
morning rise	14549 Oct 10 01:29	20° $\underline{\mathbf{a}}$ 15'45		desc. node	14550 Sep 17 23:44	5° $\underline{\mathbf{a}}$ 20'40
direct	14549 Oct 16 10:38	18° $\underline{\mathbf{a}}$ 26'27		min. Earth dist.	14550 Sep 18 09:18	4° $\underline{\mathbf{a}}$ 58'14 0.61098 AU
morning max el	14549 Oct 30 17:56	26° $\underline{\mathbf{a}}$ 07'42 27°29'55		morning rise	14550 Sep 22 00:41	2° $\underline{\mathbf{a}}$ 01'12
	14549 Nov 03 09:31	0° $\mathbb{M}$			14550 Sep 26 15:27	30° $\mathbf{R}\mathbb{M}$
	14549 Nov 23 05:05	0° $\mathbf{X}$		direct	14550 Sep 28 16:03	29° $\mathbb{M}$ 47'49
asc. node	14549 Nov 25 10:31	4° $\mathbf{X}$ 14'32			14550 Sep 30 17:47	0° $\underline{\mathbf{a}}$
morning set	14549 Dec 01 00:06	15° $\mathbf{X}$ 35'06		morning max el	14550 Oct 12 21:36	7° $\underline{\mathbf{a}}$ 43'33 27°58'08
					14550 Oct 29 21:52	0° $\mathbb{M}$
superior conj	14549 Dec 07 22:36	0° $\mathbf{Z}$ 49'20 1°32'55		asc. node	14550 Nov 12 07:21	23° $\mathbb{M}$ 57'16
minimum elong	14549 Dec 07 21:17	0° $\mathbf{Z}$ 42'02 1°33'52		morning set	14550 Nov 15 02:48	29° $\mathbb{M}$ 40'42
max. Earth dist.	14549 Dec 07 14:18	0° $\mathbf{Z}$ 02'53 1.31112 AU			14550 Nov 15 06:30	0° $\mathbf{X}$
	14549 Dec 07 13:47	0° $\mathbf{Z}$		max. Earth dist.	14550 Nov 20 20:54	12° $\mathbf{X}$ 02'28 1.31367 AU
evening rise	14549 Dec 14 16:19	15° $\mathbf{Z}$ 42'15				
	14549 Dec 21 17:16	0° $\approx$		superior conj	14550 Nov 22 09:08	15° $\mathbf{X}$ 22'55 1°22'16
desc. node	14549 Dec 28 00:04	11° $\approx$ 10'11		minimum elong	14550 Nov 22 07:07	15° $\mathbf{X}$ 11'43 1°23'00
	14550 Jan 10 18:57	0° $\mathbf{X}$			14550 Nov 28 23:55	0° $\mathbf{Z}$
evening max el	14550 Jan 13 01:15	2° $\mathbf{X}$ 16'26 26°33'49		evening rise	14550 Nov 29 01:55	0° $\mathbf{Z}$ 10'50
retrograde	14550 Jan 27 00:28	9° $\mathbf{X}$ 24'35		desc. node	14550 Dec 14 21:01	29° $\mathbf{Z}$ 35'33
evening set	14550 Feb 02 11:57	7° $\mathbf{X}$ 41'51			14550 Dec 15 03:32	0° $\approx$
min. Earth dist.	14550 Feb 06 14:54	5° $\mathbf{X}$ 04'36 0.58730 AU		evening max el	14550 Dec 25 17:44	13° $\approx$ 02'13 25°14'27
inferior conj	14550 Feb 09 18:42	2° $\mathbf{X}$ 40'57 -3°36'22		retrograde	14551 Jan 08 13:45	19° $\approx$ 59'03
minimum elong	14550 Feb 10 02:35	2° $\mathbf{X}$ 25'56 3°33'05		evening set	14551 Jan 14 07:33	18° $\approx$ 44'32
	14550 Feb 13 13:59	30° $\mathbf{R}\approx$		min. Earth dist.	14551 Jan 19 05:53	16° $\approx$ 02'51 0.56732 AU
morning rise	14550 Feb 17 20:23	28° $\approx$ 08'03		inferior conj	14551 Jan 21 23:06	14° $\approx$ 15'34 -4°57'07
direct	14550 Feb 19 20:34	27° $\approx$ 53'56		minimum elong	14551 Jan 22 08:03	14° $\approx$ 00'49 4°54'07
asc. node	14550 Feb 21 08:32	28° $\approx$ 02'08		morning rise	14551 Jan 30 11:07	10° $\approx$ 04'44
	14550 Feb 25 16:22	0° $\mathbf{X}$		direct	14551 Feb 01 14:46	9° $\approx$ 51'18
morning max el	14550 Feb 27 20:28	1° $\mathbf{X}$ 51'02 18°21'48		asc. node	14551 Feb 08 05:59	12° $\approx$ 08'46
morning set	14550 Mar 15 15:00	27° $\mathbf{X}$ 00'30		morning max el	14551 Feb 10 21:55	14° $\approx$ 22'23 19°10'52
	14550 Mar 17 04:41	0° $\mathbf{Y}$			14551 Feb 21 17:06	0° $\mathbf{X}$
				morning set	14551 Feb 27 15:23	11° $\mathbf{X}$ 23'49
superior conj	14550 Mar 24 22:16	14° $\mathbf{Y}$ 29'46 0°09'23				
minimum elong	14550 Mar 24 22:56	14° $\mathbf{Y}$ 32'50 0°09'07		superior conj	14551 Mar 07 22:38	27° $\mathbf{X}$ 46'10 0°40'21
behind sun begin	14550 Mar 24 16:54	14° $\mathbf{Y}$ 05'14		minimum elong	14551 Mar 08 00:55	27° $\mathbf{X}$ 57'09 0°40'07
behind sun end	14550 Mar 25 04:58	15° $\mathbf{Y}$ 00'23			14551 Mar 09 02:34	0° $\mathbf{Y}$
desc. node	14550 Mar 26 01:53	16° $\mathbf{Y}$ 35'18		desc. node	14551 Mar 12 22:23	7° $\mathbf{Y}$ 09'32
max. Earth dist.	14550 Apr 01 11:23	27° $\mathbf{Y}$ 50'32 1.40877 AU		max. Earth dist.	14551 Mar 14 17:53	10° $\mathbf{Y}$ 27'10 1.38613 AU
	14550 Apr 02 17:51	0° $\mathbf{Z}$		evening rise	14551 Mar 18 11:54	17° $\mathbf{Y}$ 04'16
evening rise	14550 Apr 05 22:28	5° $\mathbf{Z}$ 19'11			14551 Mar 26 06:48	0° $\mathbf{Z}$
	14550 Apr 21 23:28	0° $\mathbb{I}$			14551 Apr 16 10:36	0° $\mathbb{I}$
evening max el	14550 May 10 04:40	23° $\mathbb{I}$ 07'13 23°21'31		evening max el	14551 Apr 22 18:13	7° $\mathbb{I}$ 00'28 24°41'40
asc. node	14550 May 20 05:15	29° $\mathbb{I}$ 19'07		retrograde	14551 May 04 10:40	13° $\mathbb{I}$ 50'06
retrograde	14550 May 20 18:34	29° $\mathbb{I}$ 20'29		asc. node	14551 May 07 02:31	13° $\mathbb{I}$ 19'31
evening set	14550 May 25 22:12	27° $\mathbb{I}$ 09'40		evening set	14551 May 10 01:51	11° $\mathbb{I}$ 27'39
inferior conj	14550 May 31 06:58	20° $\mathbb{I}$ 43'37 2°47'36		min. Earth dist.	14551 May 14 13:36	6° $\mathbb{I}$ 21'42 0.68399 AU
minimum elong	14550 May 31 05:14	20° $\mathbb{I}$ 49'32 2°46'17		inferior conj	14551 May 15 14:58	4° $\mathbb{I}$ 57'13 2°20'26
min. Earth dist.	14550 May 30 18:19	21° $\mathbb{I}$ 27'12 0.68935 AU		minimum elong	14551 May 15 12:51	5° $\mathbb{I}$ 04'18 2°19'01
morning rise	14550 Jun 05 12:14	14° $\mathbb{I}$ 37'02			14551 May 19 18:57	30° $\mathbf{R}\mathbf{Z}$
direct	14550 Jun 09 19:12	12° $\mathbb{I}$ 54'20		morning rise	14551 May 21 00:03	28° $\mathbf{Z}$ 59'21
morning max el	14550 Jun 18 02:32	17° $\mathbb{I}$ 39'09 20°50'30		direct	14551 May 24 18:59	27° $\mathbf{Z}$ 37'06
desc. node	14550 Jun 22 02:53	22° $\mathbb{I}$ 06'26			14551 May 30 06:00	0° $\mathbb{I}$
	14550 Jun 28 04:18	0° $\mathbf{Z}$		morning max el	14551 Jun 01 03:16	1° $\mathbb{I}$ 41'21 19°41'17
morning set	14550 Jul 18 02:13	29° $\mathbf{Z}$ 29'18		desc. node	14551 Jun 08 23:54	11° $\mathbb{I}$ 14'16
	14550 Jul 18 10:06	0° $\mathbf{Z}$		greatest brilliancy	14551 Jun 13 21:48	18° $\mathbb{I}$ 13'25 -0.6m
max. Earth dist.	14550 Jul 26 02:32	12° $\mathbf{Z}$ 11'04 1.43372 AU			14551 Jun 21 19:04	0° $\mathbf{Z}$
				morning set	14551 Jun 27 04:53	8° $\mathbf{Z}$ 15'19
superior conj	14550 Aug 01 22:47	23° $\mathbf{Z}$ 27'34 -1°45'14		max. Earth dist.	14551 Jul 08 16:02	26° $\mathbf{Z}$ 05'42 1.44893 AU
minimum elong	14550 Aug 02 06:16	23° $\mathbf{Z}$ 59'00 1°45'11			14551 Jul 11 03:06	0° $\mathbf{Z}$
	14550 Aug 05 19:12	0° $\mathbb{M}$				
evening rise	14550 Aug 13 23:02	14° $\mathbb{M}$ 16'35		superior conj	14551 Jul 13 07:26	3° $\mathbf{Z}$ 29'14 -2°07'46
asc. node	14550 Aug 16 05:26	18° $\mathbb{M}$ 17'18		minimum elong	14551 Jul 13 12:46	3° $\mathbf{Z}$ 50'41 2°08'27

evening rise	14551 Jul 27 02:05	26° $\Omega$ 11'18		asc. node	14552 Jul 19 22:47	27° $\Omega$ 11'29	
	14551 Jul 29 08:25	0° $\mathbb{M}$			14552 Jul 21 21:06	0° $\mathbb{M}$	
asc. node	14551 Aug 03 02:05	7° $\mathbb{M}$ 54'31		evening max el	14552 Jul 27 15:48	7° $\mathbb{M}$ 07'51	18°31'25
evening max el	14551 Aug 14 02:25	23° $\mathbb{M}$ 27'37	18°08'01	retrograde	14552 Aug 03 03:12	10° $\mathbb{M}$ 36'56	
retrograde	14551 Aug 20 11:13	26° $\mathbb{M}$ 48'18		evening set	14552 Aug 06 06:53	9° $\mathbb{M}$ 40'52	
evening set	14551 Aug 23 05:59	26° $\mathbb{M}$ 07'35		inferior conj	14552 Aug 12 00:14	4° $\mathbb{M}$ 05'56	2°32'10
inferior conj	14551 Aug 29 09:39	20° $\mathbb{M}$ 48'08	1°50'16	minimum elong	14552 Aug 12 02:27	3° $\mathbb{M}$ 59'12	2°31'07
minimum elong	14551 Aug 29 12:02	20° $\mathbb{M}$ 41'34	1°49'17	min. Earth dist.	14552 Aug 14 02:05	1° $\mathbb{M}$ 35'46	0.65323 AU
min. Earth dist.	14551 Sep 01 01:06	17° $\mathbb{M}$ 54'39	0.63333 AU		14552 Aug 15 11:52	30° $\mathbb{R}$ $\Omega$	
morning rise	14551 Sep 04 16:04	14° $\mathbb{M}$ 33'39		morning rise	14552 Aug 17 20:51	27° $\Omega$ 42'46	
desc. node	14551 Sep 04 21:15	14° $\mathbb{M}$ 24'00		desc. node	14552 Aug 21 18:45	25° $\Omega$ 27'39	
direct	14551 Sep 11 07:39	12° $\mathbb{M}$ 02'55		direct	14552 Aug 24 07:35	25° $\Omega$ 04'01	
morning max el	14551 Sep 25 06:21	20° $\mathbb{M}$ 03'58	27°47'42		14552 Sep 03 13:21	0° $\mathbb{M}$	
	14551 Oct 03 19:05	0° $\Omega$		morning max el	14552 Sep 06 17:16	2° $\mathbb{M}$ 57'23	27°04'06
	14551 Oct 22 22:28	0° $\mathbb{M}$			14552 Sep 27 02:36	0° $\Omega$	
morning set	14551 Oct 29 22:15	13° $\mathbb{M}$ 23'37		morning set	14552 Oct 12 07:40	26° $\Omega$ 36'56	
asc. node	14551 Oct 30 04:06	13° $\mathbb{M}$ 53'07			14552 Oct 14 01:17	0° $\mathbb{M}$	
max. Earth dist.	14551 Nov 03 21:56	23° $\mathbb{M}$ 44'29	1.32175 AU	asc. node	14552 Oct 16 00:46	3° $\mathbb{M}$ 56'58	
				max. Earth dist.	14552 Oct 16 14:06	5° $\mathbb{M}$ 04'31	1.33536 AU
superior conj	14551 Nov 06 16:44	29° $\mathbb{M}$ 44'47	1°05'45	superior conj	14552 Oct 20 19:11	13° $\mathbb{M}$ 48'59	0°43'26
minimum elong	14551 Nov 06 14:26	29° $\mathbb{M}$ 32'13	1°06'13	minimum elong	14552 Oct 20 17:11	13° $\mathbb{M}$ 38'24	0°43'42
	14551 Nov 06 19:32	0° $\mathbb{X}$		evening rise	14552 Oct 27 23:20	29° $\mathbb{M}$ 07'59	
evening rise	14551 Nov 13 12:53	14° $\mathbb{X}$ 41'00			14552 Oct 28 09:09	0° $\mathbb{X}$	
	14551 Nov 21 01:42	0° $\mathbb{Z}$			14552 Nov 14 18:06	0° $\mathbb{Z}$	
desc. node	14551 Dec 01 18:03	17° $\mathbb{Z}$ 01'49		evening max el	14552 Nov 17 15:50	3° $\mathbb{Z}$ 09'27	21°53'40
evening max el	14551 Dec 07 03:53	23° $\mathbb{Z}$ 08'44	23°35'12	desc. node	14552 Nov 17 15:12	3° $\mathbb{Z}$ 07'55	
retrograde	14551 Dec 20 14:09	29° $\mathbb{Z}$ 48'57		retrograde	14552 Nov 30 03:05	9° $\mathbb{Z}$ 19'48	
evening set	14551 Dec 25 03:46	29° $\mathbb{Z}$ 03'39		evening set	14552 Dec 03 08:08	8° $\mathbb{Z}$ 56'47	
min. Earth dist.	14551 Dec 31 14:39	25° $\mathbb{Z}$ 58'29	0.55226 AU	inferior conj	14552 Dec 12 00:39	5° $\mathbb{Z}$ 04'14	-5°52'58
inferior conj	14552 Jan 02 07:01	24° $\mathbb{Z}$ 59'10	-5°50'50	minimum elong	14552 Dec 11 20:12	5° $\mathbb{Z}$ 10'27	5°51'33
minimum elong	14552 Jan 02 11:35	24° $\mathbb{Z}$ 52'26	5°49'26	min. Earth dist.	14552 Dec 11 20:36	5° $\mathbb{Z}$ 09'54	0.54494 AU
morning rise	14552 Jan 10 21:05	21° $\mathbb{Z}$ 05'50		morning rise	14552 Dec 20 09:06	1° $\mathbb{Z}$ 16'45	
direct	14552 Jan 13 13:23	20° $\mathbb{Z}$ 48'15		direct	14552 Dec 23 23:06	0° $\mathbb{Z}$ 48'29	
morning max el	14552 Jan 24 10:06	26° $\mathbb{Z}$ 01'26	20°23'04	morning max el	14553 Jan 05 07:30	6° $\mathbb{Z}$ 45'09	21°57'12
asc. node	14552 Jan 26 03:21	27° $\mathbb{Z}$ 48'12		asc. node	14553 Jan 12 00:37	14° $\mathbb{Z}$ 43'13	
	14552 Jan 27 23:50	0° $\approx$			14553 Jan 21 01:15	0° $\approx$	
morning set	14552 Feb 11 21:59	26° $\approx$ 01'20		morning set	14553 Jan 26 08:15	10° $\approx$ 45'43	
	14552 Feb 13 20:17	0° $\mathbb{H}$					
superior conj	14552 Feb 19 12:07	11° $\mathbb{H}$ 37'15	1°04'40	superior conj	14553 Feb 02 11:01	25° $\approx$ 52'37	1°22'10
minimum elong	14552 Feb 19 14:47	11° $\mathbb{H}$ 50'42	1°04'43	minimum elong	14553 Feb 02 13:15	26° $\approx$ 04'20	1°22'36
max. Earth dist.	14552 Feb 25 00:54	22° $\mathbb{H}$ 30'29	1.36392 AU		14553 Feb 04 10:25	0° $\mathbb{H}$	
desc. node	14552 Feb 27 18:54	27° $\mathbb{H}$ 40'24		max. Earth dist.	14553 Feb 06 13:33	4° $\mathbb{H}$ 21'43	1.34429 AU
evening rise	14552 Feb 28 20:21	29° $\mathbb{H}$ 37'08		evening rise	14553 Feb 10 20:20	12° $\mathbb{H}$ 48'20	
	14552 Feb 29 01:22	0° $\mathbb{Y}$		desc. node	14553 Feb 13 15:27	18° $\mathbb{H}$ 03'57	
	14552 Mar 18 12:22	0° $\mathbb{B}$			14553 Feb 20 10:16	0° $\mathbb{Y}$	
evening max el	14552 Apr 04 07:43	20° $\mathbb{B}$ 52'30	25°54'18		14553 Mar 13 12:48	0° $\mathbb{B}$	
retrograde	14552 Apr 16 22:13	28° $\mathbb{B}$ 06'56		evening max el	14553 Mar 17 21:36	4° $\mathbb{B}$ 36'54	26°51'56
asc. node	14552 Apr 22 23:52	25° $\mathbb{B}$ 37'58		retrograde	14553 Mar 31 04:04	12° $\mathbb{B}$ 03'36	
evening set	14552 Apr 23 00:18	25° $\mathbb{B}$ 37'04		evening set	14553 Apr 06 15:40	9° $\mathbb{B}$ 31'34	
min. Earth dist.	14552 Apr 27 05:18	21° $\mathbb{B}$ 06'41	0.67414 AU	asc. node	14553 Apr 09 21:14	6° $\mathbb{B}$ 25'46	
inferior conj	14552 Apr 28 19:19	19° $\mathbb{B}$ 06'57	1°42'29	min. Earth dist.	14553 Apr 10 15:19	5° $\mathbb{B}$ 35'10	0.66011 AU
minimum elong	14552 Apr 28 17:16	19° $\mathbb{B}$ 13'27	1°41'08	inferior conj	14553 Apr 12 17:49	3° $\mathbb{B}$ 08'00	0°53'02
morning rise	14552 May 04 10:54	13° $\mathbb{B}$ 19'04		minimum elong	14553 Apr 12 16:29	3° $\mathbb{B}$ 11'53	0°52'04
direct	14552 May 07 18:43	12° $\mathbb{B}$ 15'56			14553 Apr 15 14:08	30° $\mathbb{R}$ $\mathbb{Y}$	
morning max el	14552 May 14 11:14	15° $\mathbb{B}$ 51'51	18°47'19	morning rise	14553 Apr 18 18:36	27° $\mathbb{Y}$ 31'50	
	14552 May 25 06:49	0° $\mathbb{I}$		direct	14553 Apr 21 16:23	26° $\mathbb{Y}$ 45'25	
desc. node	14552 May 25 20:48	0° $\mathbb{I}$ 52'21			14553 Apr 27 22:42	0° $\mathbb{B}$	
greatest brilliancy	14552 May 28 10:24	4° $\mathbb{I}$ 45'53	-0.8m	morning max el	14553 Apr 28 01:01	0° $\mathbb{B}$ 05'35	18°10'03
morning set	14552 Jun 05 15:38	17° $\mathbb{I}$ 28'59		desc. node	14553 May 12 17:36	20° $\mathbb{B}$ 52'43	
	14552 Jun 13 16:34	0° $\mathbb{E}$		morning set	14553 May 17 03:02	27° $\mathbb{B}$ 56'26	
max. Earth dist.	14552 Jun 20 09:50	10° $\mathbb{E}$ 28'34	1.45750 AU		14553 May 18 09:46	0° $\mathbb{I}$	
superior conj	14552 Jun 21 21:10	12° $\mathbb{E}$ 46'42	-2°13'20	superior conj	14553 Jun 01 05:57	21° $\mathbb{I}$ 57'54	-1°58'44
minimum elong	14552 Jun 21 19:28	12° $\mathbb{E}$ 40'03	2°14'20	minimum elong	14553 May 31 21:54	21° $\mathbb{I}$ 26'23	1°59'13
	14552 Jul 02 19:02	0° $\Omega$		max. Earth dist.	14553 Jun 03 06:04	25° $\mathbb{I}$ 06'02	1.45871 AU
evening rise	14552 Jul 07 05:02	7° $\Omega$ 03'59			14553 Jun 06 09:29	0° $\mathbb{E}$	

evening rise	14553 Jun 17 08:09	16°☿59'29		superior conj	14554 May 12 02:45	1°♄46'10	-1°28'05
	14553 Jun 25 18:22	0°♄		minimum elong	14554 May 11 18:23	1°♄12'33	1°27'59
greatest brilliancy	14553 Jun 28 23:46	4°♄53'50	-0.7m	max. Earth dist.	14554 May 17 01:59	9°♄40'51	1.45242 AU
asc. node	14553 Jul 06 19:33	16°♄01'04		evening rise	14554 May 27 20:34	26°♄24'21	
evening max el	14553 Jul 11 01:24	20°♄56'03	19°11'49		14554 May 30 05:06	0°☿	
retrograde	14553 Jul 17 23:50	24°♄46'27		greatest brilliancy	14554 Jun 11 11:18	18°☿17'45	-0.6m
evening set	14553 Jul 21 12:56	23°♄33'30			14554 Jun 20 00:28	0°♄	
inferior conj	14553 Jul 26 23:27	17°♄44'31	2°57'41	asc. node	14554 Jun 23 16:25	4°♄13'31	
minimum elong	14553 Jul 27 00:56	17°♄39'43	2°56'41	evening max el	14554 Jun 24 05:28	4°♄46'48	20°07'49
min. Earth dist.	14553 Jul 28 10:53	15°♄49'46	0.66942 AU	retrograde	14554 Jul 01 22:36	9°♄10'25	
morning rise	14553 Aug 01 12:18	11°♄19'17		evening set	14554 Jul 05 21:41	7°♄40'07	
direct	14553 Aug 07 14:20	8°♄41'58		inferior conj	14554 Jul 11 04:28	1°♄38'20	3°09'27
desc. node	14553 Aug 08 16:12	8°♄46'21		minimum elong	14554 Jul 11 04:58	1°♄36'37	3°08'29
morning max el	14553 Aug 20 04:20	16°♄12'33	25°55'43	min. Earth dist.	14554 Jul 12 01:44	0°♄25'59	0.68111 AU
	14553 Aug 31 14:34	0°♄			14554 Jul 12 09:27	30°♄	
	14553 Sep 19 23:49	0°♄		morning rise	14554 Jul 16 11:54	25°☿15'19	
morning set	14553 Sep 25 03:38	9°♄12'33		direct	14554 Jul 22 02:48	22°☿47'20	
max. Earth dist.	14553 Sep 28 20:32	16°♄10'12	1.35399 AU	desc. node	14554 Jul 26 13:36	24°☿02'30	
asc. node	14553 Oct 02 21:21	24°♄04'48		morning max el	14554 Aug 02 14:59	29°☿40'46	24°32'04
					14554 Aug 02 22:32	0°♄	
superior conj	14553 Oct 04 13:51	27°♄28'53	0°15'37		14554 Aug 25 10:15	0°♄	
minimum elong	14553 Oct 04 12:57	27°♄24'17	0°15'50	morning set	14554 Sep 07 06:02	21°♄01'08	
behind sun begin	14553 Oct 04 11:48	27°♄18'28		max. Earth dist.	14554 Sep 10 20:19	27°♄24'19	1.37627 AU
behind sun end	14553 Oct 04 14:06	27°♄30'07			14554 Sep 12 06:29	0°♄	
	14553 Oct 05 19:29	0°♄					
evening rise	14553 Oct 12 07:15	13°♄26'48		superior conj	14554 Sep 17 21:31	10°♄36'37	-0°16'54
	14553 Oct 20 19:31	0°♄		minimum elong	14554 Sep 17 22:38	10°♄42'04	0°16'36
evening max el	14553 Oct 30 14:34	13°♄39'59	20°25'19	asc. node	14554 Sep 19 17:56	14°♄13'03	
desc. node	14553 Nov 04 12:28	17°♄28'23		evening rise	14554 Sep 26 10:19	27°♄31'30	
retrograde	14553 Nov 10 13:49	19°♄07'20			14554 Sep 27 16:09	0°♄	
evening set	14553 Nov 12 19:15	18°♄54'53		evening max el	14554 Oct 13 03:43	24°♄58'56	19°17'50
inferior conj	14553 Nov 21 17:00	14°♄59'35	-4°55'04	retrograde	14554 Oct 22 11:46	29°♄39'52	
minimum elong	14553 Nov 21 07:03	15°♄14'07	4°51'36	desc. node	14554 Oct 22 09:49	29°♄39'50	
min. Earth dist.	14553 Nov 23 02:50	14°♄10'10	0.54695 AU	evening set	14554 Oct 24 08:41	29°♄29'22	
morning rise	14553 Nov 29 18:25	10°♄59'28		inferior conj	14554 Nov 01 22:17	25°♄19'41	-3°17'02
direct	14553 Dec 04 08:13	10°♄14'25		minimum elong	14554 Nov 01 14:04	25°♄33'17	3°13'17
morning max el	14553 Dec 17 18:29	16°♄48'48	23°45'20	min. Earth dist.	14554 Nov 04 12:46	23°♄36'40	0.55790 AU
	14553 Dec 28 06:33	0°☿		morning rise	14554 Nov 09 17:06	20°♄48'35	
asc. node	14553 Dec 29 21:49	2°☿36'33		direct	14554 Nov 15 03:26	19°♄41'22	
morning set	14554 Jan 10 20:04	25°☿30'28		morning max el	14554 Nov 29 04:22	26°♄47'05	25°31'12
	14554 Jan 12 22:01	0°♄			14554 Dec 02 06:49	0°♄	
				asc. node	14554 Dec 16 18:55	21°♄14'00	
superior conj	14554 Jan 17 16:20	10°♄23'11	1°33'06		14554 Dec 21 09:59	0°☿	
minimum elong	14554 Jan 17 17:41	10°♄30'29	1°33'53	morning set	14554 Dec 26 07:41	10°☿11'02	
max. Earth dist.	14554 Jan 20 09:56	16°♄15'49	1.32867 AU				
evening rise	14554 Jan 25 08:23	26°♄28'04		superior conj	14555 Jan 02 01:43	25°☿02'43	1°37'46
	14554 Jan 27 03:14	0°♄		minimum elong	14555 Jan 02 02:00	25°☿04'17	1°38'45
desc. node	14554 Jan 31 12:02	8°♄14'52		max. Earth dist.	14555 Jan 03 13:12	28°☿18'35	1.31780 AU
	14554 Feb 13 18:41	0°♄			14555 Jan 04 07:41	0°♄	
evening max el	14554 Feb 28 10:43	18°♄01'22	27°27'08	evening rise	14555 Jan 09 05:32	10°♄29'34	
retrograde	14554 Mar 14 03:15	25°♄30'12		desc. node	14555 Jan 18 08:44	28°♄07'53	
evening set	14554 Mar 20 21:45	23°♄02'15			14555 Jan 19 10:08	0°♄	
min. Earth dist.	14554 Mar 24 17:27	19°♄37'06	0.64238 AU		14555 Feb 09 23:07	0°♄	
inferior conj	14554 Mar 27 07:45	16°♄52'28	-0°08'44	evening max el	14555 Feb 10 21:02	0°♄53'25	27°33'10
minimum elong	14554 Mar 27 08:01	16°♄51'46	0°08'49	retrograde	14555 Feb 24 18:55	8°♄17'39	
transit middle	14554 Mar 27 08:01	16°♄51'46	0°08'49	evening set	14555 Mar 03 15:57	6°♄01'04	
transit begin	14554 Mar 27 05:26	16°♄58'38		min. Earth dist.	14555 Mar 07 10:04	3°♄01'59	0.62183 AU
transit end	14554 Mar 27 10:37	16°♄44'54		inferior conj	14555 Mar 10 10:04	0°♄12'44	-1°22'41
asc. node	14554 Mar 27 18:40	16°♄23'38		minimum elong	14555 Mar 10 12:55	0°♄06'01	1°21'26
morning rise	14554 Apr 02 20:25	11°♄30'34			14555 Mar 10 15:29	30°♄	
direct	14554 Apr 05 09:26	10°♄57'44		asc. node	14555 Mar 14 16:08	26°♄36'51	
morning max el	14554 Apr 11 18:08	14°♄14'04	17°49'56	morning rise	14555 Mar 17 12:48	25°♄07'57	
	14554 Apr 22 22:39	0°♄		direct	14555 Mar 19 18:33	24°♄45'18	
morning set	14554 Apr 28 18:10	9°♄43'37		morning max el	14555 Mar 26 11:38	28°♄09'04	17°47'26
desc. node	14554 Apr 29 14:18	11°♄08'18			14555 Mar 28 04:50	0°♄	
	14554 May 11 00:23	0°♄		morning set	14555 Apr 11 08:28	22°♄35'49	
					14555 Apr 15 13:21	0°♄	

desc. node	14555 Apr 16 10:56	1°♄34'16		superior conj	14556 Apr 03 16:37	24°♄33'47	-0°11'08
				minimum elong	14556 Apr 03 15:40	24°♄29'36	0°11'19
superior conj	14555 Apr 22 21:53	12°♄37'34	-0°49'44	behind sun begin	14556 Apr 03 10:06	24°♄04'54	
minimum elong	14555 Apr 22 17:07	12°♄17'35	0°49'38	behind sun end	14556 Apr 03 21:14	24°♄54'15	
max. Earth dist.	14555 Apr 29 18:49	23°♄55'53	1.43933 AU		14556 Apr 06 19:11	0°♄	
	14555 May 03 14:07	0°♄		max. Earth dist.	14556 Apr 11 06:48	7°♄36'39	1.42089 AU
evening rise	14555 May 07 10:10	5°♄59'47		evening rise	14556 Apr 16 14:43	16°♄19'00	
	14555 May 23 12:41	0°♄			14556 Apr 25 10:13	0°♄	
evening max el	14555 Jun 07 03:33	18°♄37'42	21°16'53		14556 May 17 12:16	0°♄	
asc. node	14555 Jun 10 13:25	21°♄36'30		evening max el	14556 May 19 20:47	2°♄29'25	22°34'54
retrograde	14555 Jun 15 21:28	23°♄43'06		asc. node	14556 May 27 10:30	7°♄54'42	
evening set	14555 Jun 20 07:08	21°♄55'58		retrograde	14556 May 29 18:45	8°♄19'15	
inferior conj	14555 Jun 25 12:52	15°♄42'58	3°09'22	evening set	14556 Jun 03 15:36	6°♄16'38	
minimum elong	14555 Jun 25 12:24	15°♄44'37	3°08'19	inferior conj	14556 Jun 08 22:39	29°♄54'33	2°58'33
min. Earth dist.	14555 Jun 25 20:38	15°♄15'57	0.68805 AU	minimum elong	14556 Jun 08 21:19	29°♄59'11	2°57'21
morning rise	14555 Jun 30 17:26	9°♄24'50		min. Earth dist.	14556 Jun 08 17:26	0°♄12'45	0.69018 AU
direct	14555 Jul 05 20:02	7°♄11'54			14556 Jun 08 21:05	30°♄	
desc. node	14555 Jul 13 10:56	10°♄50'07		morning rise	14556 Jun 14 02:54	23°♄43'09	
morning max el	14555 Jul 16 02:11	13°♄17'16	23°02'38	direct	14556 Jun 18 16:57	21°♄48'47	
	14555 Jul 29 13:32	0°♄		morning max el	14556 Jun 27 16:31	27°♄02'12	21°36'10
	14555 Aug 18 07:19	0°♄		desc. node	14556 Jun 29 08:09	28°♄45'59	
morning set	14555 Aug 19 10:26	1°♄51'43			14556 Jun 30 10:37	0°♄	
max. Earth dist.	14555 Aug 23 18:58	9°♄12'05	1.40001 AU		14556 Jul 22 02:00	0°♄	
				morning set	14556 Jul 29 14:19	11°♄39'01	
superior conj	14555 Aug 31 14:10	23°♄02'16	-0°52'19	max. Earth dist.	14556 Aug 04 21:59	21°♄50'55	1.42246 AU
minimum elong	14555 Aug 31 18:07	23°♄20'22	0°51'54		14556 Aug 09 18:57	0°♄	
	14555 Sep 04 08:05	0°♄					
asc. node	14555 Sep 06 14:29	4°♄17'32		superior conj	14556 Aug 12 11:28	4°♄36'48	-1°27'18
evening rise	14555 Sep 10 05:29	11°♄13'33		minimum elong	14556 Aug 12 18:11	5°♄05'52	1°26'59
	14555 Sep 20 17:01	0°♄		asc. node	14556 Aug 23 11:04	24°♄15'02	
evening max el	14555 Sep 26 05:13	7°♄05'08	18°32'24	evening rise	14556 Aug 23 12:57	24°♄23'35	
retrograde	14555 Oct 04 04:01	11°♄06'20			14556 Aug 26 14:56	0°♄	
evening set	14555 Oct 06 03:02	10°♄52'27		evening max el	14556 Sep 08 15:03	19°♄50'26	18°07'48
desc. node	14555 Oct 09 07:16	9°♄36'43		retrograde	14556 Sep 15 14:40	23°♄24'35	
inferior conj	14555 Oct 14 00:14	6°♄22'53	-1°30'09	evening set	14556 Sep 17 20:29	23°♄02'56	
minimum elong	14555 Oct 13 20:39	6°♄29'48	1°28'11	inferior conj	14556 Sep 24 23:38	18°♄12'31	0°04'00
min. Earth dist.	14555 Oct 17 05:06	3°♄55'18	0.57585 AU	minimum elong	14556 Sep 24 23:46	18°♄12'12	0°04'10
morning rise	14555 Oct 21 10:46	1°♄14'07		transit middle	14556 Sep 24 23:46	18°♄12'12	0°04'10
	14555 Oct 24 18:18	30°♄		transit begin	14556 Sep 24 20:31	18°♄19'30	
direct	14555 Oct 27 13:15	29°♄40'10		transit end	14556 Sep 25 03:01	18°♄04'53	
	14555 Oct 30 09:01	0°♄		desc. node	14556 Sep 25 04:45	18°♄00'59	
morning max el	14555 Nov 10 20:04	7°♄11'11	26°56'06	min. Earth dist.	14556 Sep 28 05:41	15°♄18'24	0.59785 AU
	14555 Nov 27 20:43	0°♄		morning rise	14556 Oct 01 23:45	12°♄30'54	
asc. node	14555 Dec 03 15:56	10°♄23'21		direct	14556 Oct 08 12:30	10°♄30'19	
morning set	14555 Dec 10 17:18	24°♄41'42		morning max el	14556 Oct 22 19:29	18°♄19'08	27°46'35
	14555 Dec 13 03:57	0°♄			14556 Nov 01 15:21	0°♄	
				asc. node	14556 Nov 19 12:51	29°♄56'01	
superior conj	14555 Dec 17 13:03	9°♄44'20	1°36'24		14556 Nov 19 13:40	0°♄	
minimum elong	14555 Dec 17 12:16	9°♄40'03	1°37'24	morning set	14556 Nov 23 23:06	8°♄57'56	
max. Earth dist.	14555 Dec 17 20:27	10°♄25'45	1.31202 AU	max. Earth dist.	14556 Nov 30 04:16	22°♄30'12	1.31153 AU
evening rise	14555 Dec 24 09:12	24°♄45'45					
	14555 Dec 26 21:23	0°♄		superior conj	14556 Dec 01 00:26	24°♄22'41	1°29'07
desc. node	14556 Jan 05 05:31	17°♄34'59		minimum elong	14556 Nov 30 22:47	24°♄13'30	1°29'59
	14556 Jan 13 04:05	0°♄			14556 Dec 03 12:51	0°♄	
evening max el	14556 Jan 24 02:04	13°♄01'01	27°05'29	evening rise	14556 Dec 07 17:13	9°♄11'32	
retrograde	14556 Feb 07 01:59	20°♄16'30			14556 Dec 18 06:24	0°♄	
evening set	14556 Feb 13 19:06	18°♄19'21		desc. node	14556 Dec 22 02:22	6°♄26'26	
min. Earth dist.	14556 Feb 17 16:26	15°♄37'28	0.59975 AU	evening max el	14557 Jan 04 23:37	24°♄17'13	26°03'27
inferior conj	14556 Feb 20 21:12	12°♄59'27	-2°46'27		14557 Jan 13 00:59	0°♄	
minimum elong	14556 Feb 21 03:20	12°♄46'47	2°43'42	retrograde	14557 Jan 18 22:25	1°♄21'02	
morning rise	14556 Feb 28 14:54	8°♄14'29			14557 Jan 24 18:50	30°♄	
asc. node	14556 Feb 29 13:37	8°♄03'05		evening set	14557 Jan 25 03:20	29°♄50'10	
direct	14556 Mar 01 15:48	7°♄58'25		min. Earth dist.	14557 Jan 29 12:51	27°♄12'50	0.57830 AU
morning max el	14556 Mar 09 02:03	11°♄40'35	18°03'33	inferior conj	14557 Feb 01 13:35	25°♄03'00	-4°12'27
	14556 Mar 21 06:25	0°♄		minimum elong	14557 Feb 01 22:22	24°♄47'15	4°09'04
morning set	14556 Mar 24 15:55	6°♄15'04		morning rise	14557 Feb 09 20:24	20°♄39'26	
desc. node	14556 Apr 02 07:31	22°♄06'28		direct	14557 Feb 11 20:57	20°♄26'11	

asc. node	14557 Feb 15 11:06	21° $\approx$ 10'18		asc. node	14558 Feb 02 08:31	5° $\approx$ 58'33	
morning max el	14557 Feb 20 09:24	24° $\approx$ 37'09	18°39'57	morning max el	14558 Feb 03 05:33	6° $\approx$ 47'20	19°38'41
	14557 Feb 24 20:29	0° $\text{X}$			14558 Feb 18 03:13	0° $\text{X}$	
morning set	14557 Mar 08 11:18	20° $\text{X}$ 25'48		morning set	14558 Feb 20 14:43	4° $\text{X}$ 56'46	
	14557 Mar 13 09:50	0° $\text{Y}$					
superior conj	14557 Mar 17 07:25	7° $\text{Y}$ 24'08	0°23'18	superior conj	14558 Feb 28 13:53	20° $\text{X}$ 56'49	0°51'29
minimum elong	14557 Mar 17 08:57	7° $\text{Y}$ 31'18	0°23'00	minimum elong	14558 Feb 28 16:27	21° $\text{X}$ 09'27	0°51'21
desc. node	14557 Mar 20 04:01	12° $\text{Y}$ 40'52			14558 Mar 05 06:46	0° $\text{Y}$	
max. Earth dist.	14557 Mar 24 14:38	20° $\text{Y}$ 36'26	1.39917 AU	max. Earth dist.	14558 Mar 06 21:12	2° $\text{Y}$ 58'54	1.37651 AU
evening rise	14557 Mar 28 16:06	27° $\text{Y}$ 33'29		desc. node	14558 Mar 07 00:32	3° $\text{Y}$ 14'13	
	14557 Mar 30 03:16	0° $\text{Z}$		evening rise	14558 Mar 10 14:04	9° $\text{Y}$ 40'24	
	14557 Apr 18 23:29	0° $\text{II}$			14558 Mar 22 21:33	0° $\text{Z}$	
evening max el	14557 May 02 11:13	16° $\text{II}$ 22'42	23°56'14	evening max el	14558 Apr 14 18:06	0° $\text{II}$	
retrograde	14557 May 13 12:58	22° $\text{II}$ 52'35		retrograde	14558 Apr 15 00:47	0° $\text{II}$ 16'35	25°13'59
asc. node	14557 May 14 07:43	22° $\text{II}$ 49'54		asc. node	14558 Apr 27 03:02	7° $\text{II}$ 17'27	
evening set	14557 May 18 21:26	20° $\text{II}$ 36'42		evening set	14558 May 01 04:59	6° $\text{II}$ 07'10	
min. Earth dist.	14557 May 23 13:52	15° $\text{II}$ 09'37	0.68759 AU		14558 May 02 23:02	4° $\text{II}$ 51'21	
inferior conj	14557 May 24 07:50	14° $\text{II}$ 08'23	2°37'23		14558 May 07 08:03	30° $\text{R}$ $\text{Z}$	
minimum elong	14557 May 24 05:54	14° $\text{II}$ 14'59	2°36'01	min. Earth dist.	14558 May 07 07:49	0° $\text{II}$ 00'45	0.68038 AU
morning rise	14557 May 29 14:23	8° $\text{II}$ 05'08		inferior conj	14558 May 08 14:31	28° $\text{Z}$ 20'43	2°05'44
direct	14557 Jun 02 16:11	6° $\text{II}$ 30'59		minimum elong	14558 May 08 12:21	28° $\text{Z}$ 27'46	2°04'18
morning max el	14557 Jun 10 12:49	10° $\text{II}$ 57'14	20°19'20	morning rise	14558 May 14 02:02	22° $\text{Z}$ 26'54	
desc. node	14557 Jun 16 05:15	17° $\text{II}$ 31'18		direct	14558 May 17 16:13	21° $\text{Z}$ 12'50	
	14557 Jun 25 05:17	0° $\text{O}$		morning max el	14558 May 24 16:39	25° $\text{Z}$ 03'02	19°16'22
morning set	14557 Jul 08 21:54	20° $\text{O}$ 34'53			14558 May 29 00:56	0° $\text{II}$	
	14557 Jul 14 22:55	0° $\text{O}$		desc. node	14558 Jun 03 02:13	6° $\text{II}$ 52'53	
max. Earth dist.	14557 Jul 18 07:59	5° $\text{O}$ 21'40	1.44096 AU	greatest brilliancy	14558 Jun 06 10:51	11° $\text{II}$ 47'14	-0.7m
				morning set	14558 Jun 18 01:19	29° $\text{II}$ 25'06	
superior conj	14557 Jul 24 09:40	15° $\text{O}$ 12'08	-1°56'26		14558 Jun 18 10:23	0° $\text{O}$	
minimum elong	14557 Jul 24 16:53	15° $\text{O}$ 41'50	1°56'40	max. Earth dist.	14558 Jul 01 00:03	19° $\text{O}$ 31'46	1.45351 AU
	14557 Aug 02 04:58	0° $\text{P}$					
evening rise	14557 Aug 06 03:47	6° $\text{P}$ 48'56		superior conj	14558 Jul 04 09:03	24° $\text{O}$ 51'10	-2°12'32
asc. node	14557 Aug 10 07:39	14° $\text{P}$ 00'48		minimum elong	14558 Jul 04 11:50	25° $\text{O}$ 02'12	2°13'27
	14557 Aug 20 12:23	0° $\text{A}$			14558 Jul 07 14:41	0° $\text{O}$	
evening max el	14557 Aug 23 04:59	3° $\text{A}$ 04'03	18°02'37	evening rise	14558 Jul 18 20:54	18° $\text{O}$ 17'37	
retrograde	14557 Aug 29 16:09	6° $\text{A}$ 25'23			14558 Jul 25 23:57	0° $\text{P}$	
evening set	14557 Sep 01 06:10	5° $\text{A}$ 52'21		asc. node	14558 Jul 28 04:17	3° $\text{P}$ 29'50	
inferior conj	14557 Sep 07 17:24	0° $\text{A}$ 42'44	1°17'30	evening max el	14558 Aug 06 19:24	16° $\text{P}$ 36'30	18°15'48
minimum elong	14557 Sep 07 19:25	0° $\text{A}$ 37'33	1°16'43	retrograde	14558 Aug 13 04:06	19° $\text{P}$ 59'02	
	14557 Sep 08 09:57	30° $\text{R}$ $\text{P}$		evening set	14558 Aug 16 02:42	19° $\text{P}$ 11'52	
min. Earth dist.	14557 Sep 10 15:36	27° $\text{P}$ 43'30	0.62077 AU	inferior conj	14558 Aug 22 01:30	13° $\text{P}$ 45'20	2°10'14
desc. node	14557 Sep 12 02:16	26° $\text{P}$ 22'01		minimum elong	14558 Aug 22 03:55	13° $\text{P}$ 38'23	2°09'11
morning rise	14557 Sep 14 06:12	24° $\text{P}$ 37'37		min. Earth dist.	14558 Aug 24 11:14	11° $\text{P}$ 00'20	0.64220 AU
direct	14557 Sep 20 22:32	22° $\text{P}$ 15'47		morning rise	14558 Aug 28 03:33	7° $\text{P}$ 26'20	
	14557 Oct 04 19:39	0° $\text{A}$		desc. node	14558 Aug 29 23:46	6° $\text{P}$ 10'58	
morning max el	14557 Oct 05 01:26	0° $\text{A}$ 14'20	27°58'04	direct	14558 Sep 03 17:34	4° $\text{P}$ 51'22	
	14557 Oct 26 17:34	0° $\text{M}$		morning max el	14558 Sep 17 11:26	12° $\text{P}$ 50'03	27°32'50
asc. node	14557 Nov 06 09:40	19° $\text{M}$ 45'09			14558 Oct 01 06:17	0° $\text{A}$	
morning set	14557 Nov 07 23:01	22° $\text{M}$ 54'47			14558 Oct 19 06:49	0° $\text{M}$	
	14557 Nov 11 08:08	0° $\text{X}$		morning set	14558 Oct 22 14:34	6° $\text{M}$ 25'52	
max. Earth dist.	14557 Nov 13 08:58	4° $\text{X}$ 23'39	1.31648 AU	asc. node	14558 Oct 24 06:21	9° $\text{M}$ 44'49	
				max. Earth dist.	14558 Oct 27 06:48	15° $\text{M}$ 57'38	1.32694 AU
superior conj	14557 Nov 15 10:00	8° $\text{X}$ 52'29	1°15'59				
minimum elong	14557 Nov 15 07:48	8° $\text{X}$ 40'21	1°16'36	superior conj	14558 Oct 30 15:41	23° $\text{M}$ 07'30	0°56'59
evening rise	14557 Nov 22 03:40	23° $\text{X}$ 42'01		minimum elong	14558 Oct 30 13:26	22° $\text{M}$ 55'19	0°57'22
	14557 Nov 25 02:59	0° $\text{Z}$			14558 Nov 02 19:48	0° $\text{X}$	
desc. node	14557 Dec 08 23:20	24° $\text{Z}$ 29'07		evening rise	14558 Nov 06 14:39	8° $\text{X}$ 11'42	
	14557 Dec 13 03:47	0° $\approx$			14558 Nov 17 20:24	0° $\text{Z}$	
evening max el	14557 Dec 17 13:06	4° $\approx$ 44'49	24°33'43	desc. node	14558 Nov 25 20:25	11° $\text{Z}$ 24'17	
retrograde	14557 Dec 31 05:58	11° $\approx$ 34'44		evening max el	14558 Nov 28 22:44	14° $\text{Z}$ 43'47	22°51'08
evening set	14558 Jan 05 12:56	10° $\approx$ 33'10		retrograde	14558 Dec 12 00:39	21° $\text{Z}$ 13'08	
min. Earth dist.	14558 Jan 11 00:52	7° $\approx$ 43'54	0.56015 AU	evening set	14558 Dec 16 00:35	20° $\text{Z}$ 38'20	
inferior conj	14558 Jan 13 09:05	6° $\approx$ 16'20	-5°24'44	min. Earth dist.	14558 Dec 23 07:38	17° $\text{Z}$ 17'44	0.54812 AU
minimum elong	14558 Jan 13 16:59	6° $\approx$ 04'00	5°22'23	inferior conj	14558 Dec 24 09:41	16° $\text{Z}$ 40'41	-5°59'08
morning rise	14558 Jan 21 23:04	2° $\approx$ 13'32		minimum elong	14558 Dec 24 10:38	16° $\text{Z}$ 39'21	5°58'06
direct	14558 Jan 24 07:02	1° $\approx$ 58'53		morning rise	14559 Jan 01 22:04	12° $\text{Z}$ 52'09	
				direct	14559 Jan 04 22:57	12° $\text{Z}$ 30'50	

morning max el	14559 Jan 16 11:18	18°  02'03	21°00'42	morning rise	14559 Dec 12 06:21	22°  47'10	
asc. node	14559 Jan 20 05:51	22°  12'13		direct	14559 Dec 16 06:18	22°  12'43	
	14559 Jan 25 15:07	0° 		morning max el	14559 Dec 29 03:35	28°  26'20	22°42'14
morning set	14559 Feb 04 23:10	19°  38'06			14559 Dec 30 17:04	0° 	
	14559 Feb 09 22:04	0° 		asc. node	14560 Jan 07 03:06	9°  33'52	
					14560 Jan 18 08:10	0° 	
superior conj	14559 Feb 12 07:48	4°  59'19	1°12'54	morning set	14560 Jan 20 10:19	4°  23'08	
minimum elong	14559 Feb 12 10:21	5°  12'27	1°13'07				
max. Earth dist.	14559 Feb 17 06:23	14°  55'29	1.35518 AU	superior conj	14560 Jan 27 09:47	19°  22'11	1°27'35
evening rise	14559 Feb 21 05:33	22°  30'15		minimum elong	14560 Jan 27 11:41	19°  32'16	1°28'11
desc. node	14559 Feb 21 21:02	23°  42'08		max. Earth dist.	14560 Jan 30 22:01	26°  45'13	1.33711 AU
	14559 Feb 25 08:40	0° 			14560 Feb 01 12:00	0° 	
	14559 Mar 16 15:44	0° 		evening rise	14560 Feb 04 11:04	5°  54'16	
evening max el	14559 Mar 28 14:22	14°  05'36	26°21'00	desc. node	14560 Feb 08 17:36	14°  00'33	
retrograde	14559 Apr 10 12:08	21°  26'26			14560 Feb 18 01:13	0° 	
evening set	14559 Apr 16 18:41	18°  54'41		evening max el	14560 Mar 10 03:52	27°  41'47	27°09'57
asc. node	14559 Apr 18 02:21	17°  43'32			14560 Mar 12 16:49	0° 	
min. Earth dist.	14559 Apr 20 21:11	14°  39'19	0.66870 AU	retrograde	14560 Mar 23 15:26	5°  11'14	
inferior conj	14559 Apr 22 16:38	12°  26'42	1°22'59	evening set	14560 Mar 30 06:24	2°  39'47	
minimum elong	14559 Apr 22 14:47	12°  32'20	1°21'44		14560 Apr 02 04:29	30°  R 	
morning rise	14559 Apr 28 11:49	6°  43'51		min. Earth dist.	14560 Apr 03 04:01	28°  45'17	0.65296 AU
direct	14559 May 01 15:16	5°  48'11		asc. node	14560 Apr 03 23:46	28°  40'36	
morning max el	14559 May 08 03:23	9°  15'35	18°29'27	inferior conj	14560 Apr 05 11:48	26°  40'57	0°28'20
desc. node	14559 May 20 23:05	26°  40'54		minimum elong	14560 Apr 05 11:02	26°  43'07	0°27'40
	14559 May 23 02:15	0° 		morning rise	14560 Apr 11 17:23	20°  50'47	
morning set	14559 May 28 21:17	9°  06'35		direct	14560 Apr 14 11:10	20°  41'42	
	14559 Jun 11 05:02	0° 		morning max el	14560 Apr 20 18:59	23°  48'00	17°59'22
					14560 Apr 26 03:22	0° 	
superior conj	14559 Jun 13 18:27	3°  59'35	-2°09'31	desc. node	14560 May 06 19:51	16°  47'59	
minimum elong	14559 Jun 13 13:30	3°  40'16	2°10'23	morning set	14560 May 08 20:38	20°  07'54	
max. Earth dist.	14559 Jun 13 19:25	4°  03'20	1.45889 AU		14560 May 14 21:54	0° 	
evening rise	14559 Jun 29 13:15	28°  44'16					
	14559 Jun 30 08:26	0° 		superior conj	14560 May 23 06:30	13°  21'35	-1°47'14
greatest brilliancy	14559 Jul 08 05:25	12°  22'59	-0.8m	minimum elong	14560 May 22 21:34	12°  24'21	1°47'24
asc. node	14559 Jul 15 01:00	22°  22'59		max. Earth dist.	14560 May 26 15:22	18°  24'31	1.45682 AU
	14559 Jul 20 23:17	0° 			14560 Jun 02 22:21	0° 	
evening max el	14559 Jul 21 07:22	0°  20'22	18°46'35	evening rise	14560 Jun 08 08:21	8°  21'06	
retrograde	14559 Jul 27 22:34	3°  57'22		greatest brilliancy	14560 Jun 21 21:36	28°  53'25	-0.7m
evening set	14559 Jul 31 06:08	2°  54'15			14560 Jun 22 15:47	0° 	
	14559 Aug 03 12:20	30°  R 		asc. node	14560 Jun 30 21:48	11°  21'05	
inferior conj	14559 Aug 05 20:09	27°  22'56	2°44'50	evening max el	14560 Jul 03 14:40	14°  21'09	19°33'56
minimum elong	14559 Aug 05 22:06	27°  06'49	2°43'48	retrograde	14560 Jul 10 20:26	18°  21'03	
min. Earth dist.	14559 Aug 07 15:49	24°  26'45	0.66053 AU	evening set	14560 Jul 14 13:35	16°  25'54	
morning rise	14559 Aug 11 13:10	20°  24'00		inferior conj	14560 Jul 19 22:09	10°  25'19	3°04'14
desc. node	14559 Aug 16 21:16	18°  22'28		minimum elong	14560 Jul 19 23:14	10°  25'44	3°03'16
direct	14559 Aug 17 20:23	18°  20'00		min. Earth dist.	14560 Jul 21 03:33	9°  20'45	0.67486 AU
morning max el	14559 Aug 30 22:52	25°  25'01	26°37'39	morning rise	14560 Jul 25 08:22	4°  23'21	
	14559 Sep 03 17:08	0° 		direct	14560 Jul 31 05:51	1°  25'58	
	14559 Sep 24 19:19	0° 		desc. node	14560 Aug 02 18:44	2°  23'27	
morning set	14559 Oct 05 18:47	19°  24'44		morning max el	14560 Aug 12 09:47	9°  21'22	25°21'28
max. Earth dist.	14559 Oct 09 19:03	27°  21'24	1.34271 AU		14560 Aug 28 18:30	0° 	
asc. node	14559 Oct 11 02:57	29°  25'54			14560 Sep 16 09:08	0° 	
	14559 Oct 11 04:46	0° 		morning set	14560 Sep 17 07:49	1°  24'12	
				max. Earth dist.	14560 Sep 20 21:42	8°  15'16	1.36306 AU
superior conj	14559 Oct 14 15:11	7°  20'18	0°32'17	asc. node	14560 Sep 26 23:32	19°  25'55	
minimum elong	14559 Oct 14 13:33	6°  25'34	0°32'31				
evening rise	14559 Oct 22 00:19	22°  26'09		superior conj	14560 Sep 27 05:35	20°  29'04	0°02'21
	14559 Oct 25 14:25	0° 		minimum elong	14560 Sep 27 05:26	20°  28'16	0°02'35
evening max el	14559 Nov 10 14:15	24°  53'11	21°13'48	behind sun begin	14560 Sep 26 23:08	19°  25'01	
desc. node	14559 Nov 12 17:37	26°  54'59		behind sun end	14560 Sep 27 11:43	20°  25'36	
	14559 Nov 18 02:55	0° 			14560 Oct 01 22:30	0° 	
retrograde	14559 Nov 22 11:38	0°  34'12		evening rise	14560 Oct 05 06:28	6°  24'06	
evening set	14559 Nov 25 04:44	0°  30'03			14560 Oct 18 01:56	0° 	
	14559 Nov 27 01:16	30°  R 		evening max el	14560 Oct 22 19:08	5°  43'26	19°53'58
inferior conj	14559 Dec 04 00:58	26°  53'37	-5°35'11	desc. node	14560 Oct 29 14:55	10°  51'46	
minimum elong	14559 Dec 03 17:18	26°  54'25	5°32'55	retrograde	14560 Nov 02 01:39	10°  50'36	
min. Earth dist.	14559 Dec 04 13:22	26°  52'05	0.54465 AU	evening set	14560 Nov 04 01:34	10°  53'54	

inferior conj	14560 Nov 12 21:24	6°♊39'59	-4°16'32	minimum elong	14561 Oct 24 04:34	17°♍27'13	2°28'00
minimum elong	14560 Nov 12 11:28	6°♊55'10	4°12'35	min. Earth dist.	14561 Oct 27 09:25	15°♍12'27	0.56488 AU
min. Earth dist.	14560 Nov 14 21:11	5°♊26'56	0.55059 AU	morning rise	14561 Nov 01 02:30	12°♍29'23	
morning rise	14560 Nov 20 20:00	2°♊27'59		direct	14561 Nov 06 20:40	11°♍10'52	
direct	14560 Nov 25 19:04	1°♊33'57		morning max el	14561 Nov 21 00:27	18°♍27'42	26°10'51
morning max el	14560 Dec 09 12:59	8°♊23'17	24°31'39		14561 Nov 30 16:16	0°♊	
asc. node	14560 Dec 24 00:16	27°♊47'20		asc. node	14561 Dec 10 21:20	16°♊39'20	
	14560 Dec 25 06:43	0°♊			14561 Dec 17 15:16	0°♊	
morning set	14561 Jan 03 22:17	19°♊06'32		morning set	14561 Dec 19 09:15	3°♊43'02	
	14561 Jan 08 21:55	0°♊					
superior conj	14561 Jan 10 17:08	3°♋57'32	1°35'50	superior conj	14561 Dec 26 03:34	18°♊38'20	1°37'55
minimum elong	14561 Jan 10 18:03	4°♋02'29	1°36'43	minimum elong	14561 Dec 26 03:23	18°♊37'22	1°38'56
max. Earth dist.	14561 Jan 12 21:22	8°♋41'58	1.32345 AU	max. Earth dist.	14561 Dec 27 02:47	20°♊47'31	1.31473 AU
evening rise	14561 Jan 18 03:22	19°♋44'24		evening rise	14561 Dec 31 07:43	0°♋	
	14561 Jan 23 09:11	0°♋		desc. node	14562 Jan 02 03:35	3°♋52'54	
desc. node	14561 Jan 25 14:14	4°♋04'36			14562 Jan 12 10:57	23°♋47'31	
	14561 Feb 11 03:57	0°♋		evening max el	14562 Jan 16 02:54	0°♋	
evening max el	14561 Feb 20 16:09	10°♋54'28	27°33'38		14562 Feb 03 00:50	23°♋29'53	27°25'47
retrograde	14561 Mar 06 11:51	18°♋22'34		retrograde	14562 Feb 12 13:57	0°♋	
evening set	14561 Mar 13 07:51	15°♋58'41			14562 Feb 16 23:57	0°♋50'04	
min. Earth dist.	14561 Mar 17 02:32	12°♋45'09	0.63386 AU	evening set	14562 Feb 21 06:10	30°♋	
inferior conj	14561 Mar 19 21:17	9°♋56'44	-0°38'41	min. Earth dist.	14562 Feb 23 20:05	28°♋41'12	
minimum elong	14561 Mar 19 22:32	9°♋53'35	0°38'15	inferior conj	14562 Feb 27 15:00	25°♋50'29	0.61253 AU
asc. node	14561 Mar 21 21:15	7°♋59'12		minimum elong	14562 Mar 02 17:39	23°♋04'16	-1°57'18
morning rise	14561 Mar 26 15:43	4°♋41'38		asc. node	14562 Mar 02 21:51	22°♋54'53	1°55'22
direct	14561 Mar 29 01:18	4°♋13'41		morning rise	14562 Mar 08 18:46	18°♋37'55	
morning max el	14561 Apr 04 12:42	7°♋32'12	17°46'37	direct	14562 Mar 10 02:43	18°♋07'13	
	14561 Apr 19 12:35	0°♋		morning max el	14562 Mar 12 06:04	17°♋47'44	
morning set	14561 Apr 20 22:29	2°♋25'30			14562 Mar 19 05:17	21°♋18'08	17°51'51
desc. node	14561 Apr 23 16:32	7°♋08'38		morning set	14562 Mar 25 20:03	0°♋	
				desc. node	14562 Apr 03 20:50	15°♋40'05	
superior conj	14561 May 03 12:14	23°♋35'36	-1°12'16		14562 Apr 10 13:07	27°♋37'27	
minimum elong	14561 May 03 05:10	23°♋06'44	1°12'06		14562 Apr 11 21:34	0°♋	
	14561 May 07 11:09	0°♋		superior conj	14562 Apr 14 17:36	4°♋54'53	-0°33'03
max. Earth dist.	14561 May 09 09:54	3°♋06'38	1.44761 AU	minimum elong	14562 Apr 14 14:34	4°♋41'53	0°33'05
evening rise	14561 May 18 19:17	17°♋45'40		max. Earth dist.	14562 Apr 22 01:09	17°♋09'45	1.43212 AU
	14561 May 26 21:28	0°♋		evening rise	14562 Apr 28 14:05	27°♋37'14	
evening max el	14561 Jun 16 16:15	28°♋00'32	20°35'52		14562 Apr 30 02:41	0°♋	
asc. node	14561 Jun 17 18:45	29°♋04'03			14562 May 20 15:42	0°♋	
	14561 Jun 18 20:33	0°♋		evening max el	14562 May 30 12:12	11°♋51'55	21°49'16
retrograde	14561 Jun 24 19:22	2°♋40'59		asc. node	14562 Jun 04 15:49	16°♋01'29	
evening set	14561 Jun 28 22:50	1°♋03'36		retrograde	14562 Jun 08 17:36	17°♋15'35	
	14561 Jun 30 03:16	30°♋		evening set	14562 Jun 13 08:04	15°♋21'35	
inferior conj	14561 Jul 04 04:53	24°♋57'06	3°10'45	inferior conj	14562 Jun 18 14:07	9°♋04'38	3°06'00
minimum elong	14561 Jul 04 04:58	24°♋56'49	3°09'46	minimum elong	14562 Jun 18 13:15	9°♋07'39	3°04'55
min. Earth dist.	14561 Jul 04 20:26	24°♋03'33	0.68468 AU	min. Earth dist.	14562 Jun 18 16:18	8°♋57'00	0.68964 AU
morning rise	14561 Jul 09 10:48	18°♋35'51		morning rise	14562 Jun 23 18:15	2°♋49'24	
direct	14561 Jul 14 20:39	16°♋13'23		direct	14562 Jun 28 15:36	0°♋43'59	
desc. node	14561 Jul 20 16:08	18°♋21'21		desc. node	14562 Jul 07 13:24	5°♋40'12	
morning max el	14561 Jul 25 20:11	22°♋47'14	23°54'05	morning max el	14562 Jul 08 08:15	6°♋26'26	22°24'59
	14561 Aug 01 04:17	0°♋			14562 Jul 26 13:15	0°♋	
	14561 Aug 22 02:17	0°♋		morning set	14562 Aug 10 19:15	23°♋28'39	
morning set	14561 Aug 30 01:17	13°♋05'41			14562 Aug 14 18:23	0°♋	
max. Earth dist.	14561 Sep 02 19:43	19°♋38'03	1.38636 AU	max. Earth dist.	14562 Aug 15 20:10	1°♋48'04	1.40994 AU
	14561 Sep 08 12:49	0°♋					
superior conj	14561 Sep 10 07:22	3°♌19'39	-0°31'43	superior conj	14562 Aug 23 16:20	15°♋24'37	-1°07'29
minimum elong	14561 Sep 10 09:37	3°♌30'19	0°31'22	minimum elong	14562 Aug 23 21:34	15°♋47'59	1°07'03
asc. node	14561 Sep 13 20:05	10°♌05'34		asc. node	14562 Aug 31 16:39	0°♌07'27	
evening rise	14561 Sep 19 06:31	20°♌44'19			14562 Aug 31 15:04	0°♌	
	14561 Sep 24 01:45	0°♌		evening rise	14562 Sep 02 21:13	4°♌13'54	
evening max el	14561 Oct 05 14:02	17°♌23'01	18°55'55	evening max el	14562 Sep 18 19:35	29°♌46'42	18°19'27
retrograde	14561 Oct 14 06:35	21°♌45'12			14562 Sep 19 00:59	0°♌	
evening set	14561 Oct 16 03:41	21°♌33'45		retrograde	14562 Sep 26 07:04	3°♌34'45	
desc. node	14561 Oct 16 12:20	21°♌29'01		evening set	14562 Sep 28 08:47	3°♌17'57	
inferior conj	14561 Oct 24 10:53	17°♌16'06	-2°31'08	desc. node	14562 Oct 03 09:48	0°♌38'10	
					14562 Oct 04 05:57	30°♌	



inferior conj	14562 Oct 05 22:08	28°♄39'02	-0°47'55	evening set	14563 Sep 11 09:51	15°♄45'46	
minimum elong	14562 Oct 05 20:21	28°♄42'43	0°46'47	inferior conj	14563 Sep 18 05:49	10°♄46'44	0°37'51
min. Earth dist.	14562 Oct 09 04:45	25°♄57'57	0.58488 AU	minimum elong	14563 Sep 18 06:59	10°♄43'58	0°37'30
morning rise	14562 Oct 13 04:28	23°♄15'31		desc. node	14563 Sep 20 07:19	8°♄48'06	
direct	14562 Oct 19 12:03	21°♄30'14		min. Earth dist.	14563 Sep 21 09:15	7°♄47'49	0.60758 AU
morning max el	14562 Nov 02 19:26	29°♄08'55	27°22'26	morning rise	14563 Sep 25 01:05	4°♄53'33	
	14562 Nov 03 15:59	0°♄		direct	14563 Oct 01 15:56	2°♄43'14	
	14562 Nov 24 13:40	0°♄		morning max el	14563 Oct 15 22:07	10°♄37'42	27°56'24
asc. node	14562 Nov 27 18:17	5°♄59'32			14563 Oct 31 01:17	0°♄	
morning set	14562 Dec 03 17:29	18°♄08'17		asc. node	14563 Nov 14 15:07	25°♄39'29	
	14562 Dec 09 03:31	0°♄			14563 Nov 16 18:40	0°♄	
				morning set	14563 Nov 17 21:02	2°♄16'29	
superior conj	14562 Dec 10 15:08	3°♄19'03	1°34'02	max. Earth dist.	14563 Nov 23 17:57	14°♄56'19	1.31293 AU
minimum elong	14562 Dec 10 13:57	3°♄12'31	1°35'00				
max. Earth dist.	14562 Dec 10 10:59	2°♄55'53	1.31116 AU	superior conj	14563 Nov 25 01:56	17°♄53'41	1°24'16
evening rise	14562 Dec 17 09:21	18°♄13'55		minimum elong	14563 Nov 25 00:00	17°♄42'57	1°25'02
	14562 Dec 23 03:07	0°♄			14563 Nov 30 12:54	0°♄	
desc. node	14562 Dec 30 07:45	13°♄01'04		evening rise	14563 Dec 01 18:35	2°♄41'24	
	14563 Jan 11 04:34	0°♄			14563 Dec 16 04:40	0°♄	
evening max el	14563 Jan 16 02:59	5°♄16'21	26°43'05	desc. node	14563 Dec 17 04:39	1°♄33'20	
retrograde	14563 Jan 30 02:20	12°♄26'23		evening max el	14563 Dec 28 20:36	16°♄08'51	25°27'53
evening set	14563 Feb 05 15:40	10°♄39'37		retrograde	14564 Jan 11 17:37	23°♄07'56	
min. Earth dist.	14563 Feb 09 16:47	8°♄01'44	0.59050 AU	evening set	14564 Jan 17 14:36	21°♄49'04	
inferior conj	14563 Feb 12 21:13	5°♄33'47	-3°23'17	min. Earth dist.	14564 Jan 22 09:03	19°♄09'03	0.56999 AU
minimum elong	14563 Feb 13 04:41	5°♄19'16	3°20'07	inferior conj	14564 Jan 25 04:41	17°♄15'27	-4°46'05
morning rise	14563 Feb 20 20:56	0°♄57'47		minimum elong	14564 Jan 25 13:45	17°♄00'11	4°42'57
direct	14563 Feb 22 21:10	0°♄43'16		morning rise	14564 Feb 02 15:37	13°♄01'32	
asc. node	14563 Feb 23 16:14	0°♄45'37		direct	14564 Feb 04 18:08	12°♄48'19	
morning max el	14563 Mar 02 17:10	4°♄35'58	18°16'23	asc. node	14564 Feb 10 13:39	14°♄36'24	
morning set	14563 Mar 18 09:53	29°♄34'17		morning max el	14564 Feb 13 20:17	17°♄14'00	19°02'11
	14563 Mar 18 15:20	0°♄			14564 Feb 23 00:13	0°♄	
				morning set	14564 Mar 01 09:05	13°♄54'27	
superior conj	14563 Mar 27 21:25	17°♄15'33	0°04'10				
minimum elong	14563 Mar 27 21:43	17°♄16'55	0°03'55	superior conj	14564 Mar 09 19:27	0°♄25'36	0°36'03
behind sun begin	14563 Mar 27 14:29	16°♄44'06		minimum elong	14564 Mar 09 21:35	0°♄35'46	0°35'48
behind sun end	14563 Mar 28 04:57	17°♄49'40			14564 Mar 09 14:06	0°♄	
desc. node	14563 Mar 28 09:39	18°♄10'53		desc. node	14564 Mar 14 06:09	8°♄45'11	
	14563 Apr 04 03:24	0°♄		max. Earth dist.	14564 Mar 16 18:13	13°♄16'50	1.38946 AU
max. Earth dist.	14563 Apr 04 11:39	0°♄35'06	1.41201 AU	evening rise	14564 Mar 20 13:32	19°♄56'26	
evening rise	14563 Apr 09 03:11	8°♄19'08			14564 Mar 26 14:41	0°♄	
	14563 Apr 23 04:13	0°♄			14564 Apr 16 07:41	0°♄	
evening max el	14563 May 13 03:53	25°♄43'35	23°09'24	evening max el	14564 Apr 24 17:34	9°♄36'51	24°30'06
	14563 May 18 06:22	0°♄		retrograde	14564 May 06 06:27	16°♄21'59	
asc. node	14563 May 22 12:58	1°♄46'24		asc. node	14564 May 08 10:11	16°♄01'46	
retrograde	14563 May 23 13:42	1°♄51'08		evening set	14564 May 11 19:52	14°♄01'05	
	14563 May 28 07:03	30°♄		min. Earth dist.	14564 May 16 08:45	8°♄49'38	0.68505 AU
evening set	14563 May 28 15:36	29°♄42'15		inferior conj	14564 May 17 08:13	7°♄30'58	2°25'18
inferior conj	14563 Jun 02 23:50	23°♄17'05	2°50'48	minimum elong	14564 May 17 06:07	7°♄37'59	2°23'52
minimum elong	14563 Jun 02 22:13	23°♄22'41	2°49'32	morning rise	14564 May 22 16:33	1°♄31'36	
min. Earth dist.	14563 Jun 02 13:05	23°♄54'16	0.68972 AU	direct	14564 May 26 13:12	0°♄06'20	
morning rise	14563 Jun 08 04:47	17°♄09'13		morning max el	14564 Jun 03 00:32	4°♄16'04	19°50'39
direct	14563 Jun 12 13:31	15°♄23'35		desc. node	14564 Jun 10 07:36	13°♄00'59	
morning max el	14563 Jun 21 00:58	20°♄15'38	21°01'58		14564 Jun 22 01:12	0°♄	
desc. node	14563 Jun 24 10:34	23°♄58'41		morning set	14564 Jun 29 16:38	11°♄37'23	
	14563 Jun 29 05:02	0°♄		max. Earth dist.	14564 Jul 10 14:55	28°♄39'15	1.44706 AU
	14563 Jul 19 17:25	0°♄			14564 Jul 11 11:16	0°♄	
morning set	14563 Jul 21 13:20	2°♄50'39					
max. Earth dist.	14563 Jul 29 02:29	14°♄51'10	1.43095 AU	superior conj	14564 Jul 15 16:08	6°♄43'50	-2°05'18
				minimum elong	14564 Jul 15 22:09	7°♄08'10	2°05'51
superior conj	14563 Aug 05 04:03	26°♄33'46	-1°40'48	evening rise	14564 Jul 29 04:30	29°♄09'21	
minimum elong	14563 Aug 05 11:26	27°♄05'02	1°40'39		14564 Jul 29 16:27	0°♄	
	14563 Aug 07 04:29	0°♄		asc. node	14564 Aug 04 09:50	9°♄39'52	
evening rise	14563 Aug 16 22:15	17°♄06'27		evening max el	14564 Aug 15 22:04	26°♄07'09	18°06'02
asc. node	14563 Aug 18 13:13	20°♄00'17		retrograde	14564 Aug 22 07:12	29°♄27'32	
	14563 Aug 24 06:25	0°♄		evening set	14564 Aug 25 00:43	28°♄48'55	
evening max el	14563 Sep 02 07:32	12°♄44'25	18°03'14	inferior conj	14564 Aug 31 06:14	23°♄32'03	1°42'16
retrograde	14563 Sep 09 00:45	16°♄11'47		minimum elong	14564 Aug 31 08:34	23°♄25'45	1°41'18

































































































































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desc. node	14564 Sep 06 04:49	17° $\mathbb{M}$ 37'48		inferior conj	14565 Aug 14 19:16	6° $\mathbb{M}$ 45'53	2°26'54
morning rise	14564 Sep 06 14:17	17° $\mathbb{M}$ 19'41		minimum elong	14565 Aug 14 21:33	6° $\mathbb{M}$ 39'02	2°25'51
direct	14564 Sep 13 06:16	14° $\mathbb{M}$ 50'51		min. Earth dist.	14565 Aug 16 23:12	4° $\mathbb{M}$ 11'30	0.65052 AU
morning max el	14564 Sep 27 06:12	22° $\mathbb{M}$ 51'43	27°51'24	morning rise	14565 Aug 20 17:15	0° $\mathbb{M}$ 23'40	
	14564 Oct 03 14:20	0° $\mathbb{L}$			14565 Aug 21 05:14	30° $\mathbb{R}$ 00	
	14564 Oct 23 07:33	0° $\mathbb{M}$		desc. node	14565 Aug 24 02:21	28° $\mathbb{J}$ 20'53	
asc. node	14564 Oct 31 11:52	15° $\mathbb{M}$ 33'29		direct	14565 Aug 27 05:01	27° $\mathbb{J}$ 45'37	
morning set	14564 Oct 31 17:42	16° $\mathbb{M}$ 02'55			14565 Sep 02 21:05	0° $\mathbb{M}$	
max. Earth dist.	14564 Nov 05 19:56	26° $\mathbb{M}$ 40'47	1.32023 AU	morning max el	14565 Sep 09 16:54	5° $\mathbb{M}$ 40'34	27°12'22
	14564 Nov 07 08:51	0° $\mathbb{X}$			14565 Sep 28 07:46	0° $\mathbb{L}$	
				morning set	14565 Oct 15 04:50	29° $\mathbb{L}$ 21'09	
superior conj	14564 Nov 08 10:06	2° $\mathbb{X}$ 17'33	1°08'37		14565 Oct 15 12:49	0° $\mathbb{M}$	
minimum elong	14564 Nov 08 07:48	2° $\mathbb{X}$ 05'00	1°09'09	asc. node	14565 Oct 18 08:32	5° $\mathbb{M}$ 36'25	
evening rise	14564 Nov 15 05:27	17° $\mathbb{X}$ 11'28		max. Earth dist.	14565 Oct 19 13:38	8° $\mathbb{M}$ 04'28	1.33302 AU
	14564 Nov 21 10:36	0° $\mathbb{Z}$					
desc. node	14564 Dec 03 01:40	19° $\mathbb{Z}$ 09'29		superior conj	14565 Oct 23 13:30	16° $\mathbb{M}$ 25'03	0°47'11
evening max el	14564 Dec 09 07:25	26° $\mathbb{Z}$ 19'41	23°50'32	minimum elong	14565 Oct 23 11:24	16° $\mathbb{M}$ 13'55	0°47'30
	14564 Dec 13 19:36	0° $\mathbb{X}$			14565 Oct 29 21:26	0° $\mathbb{X}$	
retrograde	14564 Dec 22 19:55	3° $\mathbb{X}$ 02'41		evening rise	14565 Oct 30 16:07	1° $\mathbb{X}$ 39'36	
evening set	14564 Dec 27 14:07	2° $\mathbb{X}$ 13'26			14565 Nov 15 08:47	0° $\mathbb{Z}$	
	14565 Jan 01 09:53	30° $\mathbb{R}$ 00		desc. node	14565 Nov 19 22:49	5° $\mathbb{Z}$ 29'36	
min. Earth dist.	14565 Jan 02 18:38	29° $\mathbb{Z}$ 12'53	0.55404 AU	evening max el	14565 Nov 20 18:35	6° $\mathbb{Z}$ 19'25	22°08'15
inferior conj	14565 Jan 04 15:25	28° $\mathbb{Z}$ 06'10	-5°45'35	retrograde	14565 Dec 03 09:58	12° $\mathbb{Z}$ 34'55	
minimum elong	14565 Jan 04 21:04	27° $\mathbb{Z}$ 57'44	5°43'57	evening set	14565 Dec 06 19:50	12° $\mathbb{Z}$ 09'11	
morning rise	14565 Jan 13 05:45	24° $\mathbb{Z}$ 10'33		inferior conj	14565 Dec 15 10:35	8° $\mathbb{Z}$ 15'54	-5°56'37
direct	14565 Jan 15 19:31	23° $\mathbb{Z}$ 53'56		minimum elong	14565 Dec 15 07:30	8° $\mathbb{Z}$ 20'13	5°55'24
morning max el	14565 Jan 26 10:34	29° $\mathbb{Z}$ 00'54	20°10'54	min. Earth dist.	14565 Dec 15 00:44	8° $\mathbb{Z}$ 29'42	0.54549 AU
asc. node	14565 Jan 27 11:01	0° $\mathbb{X}$ 02'33		morning rise	14565 Dec 23 20:09	4° $\mathbb{Z}$ 28'41	
	14565 Jan 27 10:03	0° $\mathbb{X}$		direct	14565 Dec 27 06:42	4° $\mathbb{Z}$ 02'22	
morning set	14565 Feb 13 14:55	28° $\mathbb{X}$ 30'09		morning max el	14566 Jan 08 10:04	9° $\mathbb{Z}$ 52'29	21°41'59
	14565 Feb 14 08:29	0° $\mathbb{X}$		asc. node	14566 Jan 14 08:19	16° $\mathbb{Z}$ 47'31	
					14566 Jan 22 10:14	0° $\mathbb{X}$	
superior conj	14565 Feb 21 07:13	14° $\mathbb{X}$ 11'52	1°01'24	morning set	14566 Jan 29 00:49	13° $\mathbb{X}$ 14'05	
minimum elong	14565 Feb 21 09:53	14° $\mathbb{X}$ 25'15	1°01'24				
max. Earth dist.	14565 Feb 27 00:53	25° $\mathbb{X}$ 23'59	1.36707 AU	superior conj	14566 Feb 05 04:57	28° $\mathbb{X}$ 24'11	1°19'57
desc. node	14565 Mar 01 02:38	29° $\mathbb{X}$ 16'31		minimum elong	14566 Feb 05 07:17	28° $\mathbb{X}$ 36'22	1°20'19
	14565 Mar 01 12:04	0° $\mathbb{Y}$			14566 Feb 05 23:19	0° $\mathbb{X}$	
evening rise	14565 Mar 02 19:22	2° $\mathbb{Y}$ 22'42		max. Earth dist.	14566 Feb 09 12:40	7° $\mathbb{X}$ 16'28	1.34701 AU
	14565 Mar 19 16:34	0° $\mathbb{X}$		evening rise	14566 Feb 13 17:19	15° $\mathbb{X}$ 28'46	
evening max el	14565 Apr 07 07:05	23° $\mathbb{X}$ 29'36	25°44'21	desc. node	14566 Feb 15 23:10	19° $\mathbb{X}$ 41'14	
	14565 Apr 16 08:08	0° $\mathbb{I}$			14566 Feb 21 18:40	0° $\mathbb{Y}$	
retrograde	14565 Apr 19 18:40	0° $\mathbb{I}$ 40'56			14566 Mar 14 06:16	0° $\mathbb{X}$	
	14565 Apr 22 23:36	30° $\mathbb{R}$ 00		evening max el	14566 Mar 20 21:00	7° $\mathbb{X}$ 15'29	26°44'34
asc. node	14565 Apr 25 07:30	28° $\mathbb{X}$ 35'29		retrograde	14566 Apr 03 01:18	14° $\mathbb{X}$ 40'42	
evening set	14565 Apr 25 19:10	28° $\mathbb{X}$ 11'59		evening set	14566 Apr 09 11:42	12° $\mathbb{X}$ 08'37	
min. Earth dist.	14565 Apr 30 01:08	23° $\mathbb{X}$ 36'19	0.67587 AU	asc. node	14566 Apr 12 04:53	9° $\mathbb{X}$ 34'32	
inferior conj	14565 May 01 13:14	21° $\mathbb{X}$ 41'33	1°49'03	min. Earth dist.	14566 Apr 13 12:04	8° $\mathbb{X}$ 07'23	0.66248 AU
minimum elong	14565 May 01 11:08	21° $\mathbb{X}$ 48'15	1°47'38	inferior conj	14566 Apr 15 12:44	5° $\mathbb{X}$ 43'47	1°01'21
morning rise	14565 May 07 03:39	15° $\mathbb{X}$ 51'58		minimum elong	14566 Apr 15 11:15	5° $\mathbb{X}$ 48'11	1°00'17
direct	14565 May 10 13:06	14° $\mathbb{X}$ 46'01		morning rise	14566 Apr 21 11:59	0° $\mathbb{X}$ 05'46	
morning max el	14565 May 17 07:25	18° $\mathbb{X}$ 25'17	18°54'20		14566 Apr 21 16:21	30° $\mathbb{R}$ 00	
	14565 May 26 10:19	0° $\mathbb{I}$		direct	14566 Apr 24 11:15	29° $\mathbb{Y}$ 16'58	
desc. node	14565 May 28 04:31	2° $\mathbb{I}$ 34'56			14566 Apr 27 07:29	0° $\mathbb{X}$	
greatest brilliancy	14565 May 30 18:54	6° $\mathbb{I}$ 29'00	-0.8m	morning max el	14566 Apr 30 20:27	2° $\mathbb{X}$ 38'29	18°14'32
morning set	14565 Jun 09 00:51	20° $\mathbb{I}$ 43'08		desc. node	14566 May 15 01:21	22° $\mathbb{X}$ 32'02	
	14565 Jun 15 00:19	0° $\mathbb{X}$			14566 May 19 17:35	0° $\mathbb{I}$	
max. Earth dist.	14565 Jun 23 08:18	12° $\mathbb{X}$ 59'06	1.45673 AU	morning set	14566 May 20 08:04	0° $\mathbb{I}$ 57'56	
superior conj	14565 Jun 25 07:59	16° $\mathbb{X}$ 05'48	-2°13'46	superior conj	14566 Jun 04 16:19	25° $\mathbb{I}$ 14'15	-2°02'09
minimum elong	14565 Jun 25 07:30	16° $\mathbb{X}$ 03'55	2°14'48	minimum elong	14566 Jun 04 08:53	24° $\mathbb{I}$ 45'10	2°02'44
	14565 Jul 04 02:59	0° $\mathbb{J}$		max. Earth dist.	14566 Jun 06 04:32	27° $\mathbb{I}$ 35'44	1.45903 AU
evening rise	14565 Jul 10 11:08	10° $\mathbb{J}$ 11'06			14566 Jun 07 17:32	0° $\mathbb{X}$	
asc. node	14565 Jul 22 06:30	29° $\mathbb{J}$ 00'03		evening rise	14566 Jun 20 17:28	20° $\mathbb{X}$ 13'40	
	14565 Jul 22 22:26	0° $\mathbb{M}$			14566 Jun 27 00:25	0° $\mathbb{J}$	
evening max el	14565 Jul 30 11:50	9° $\mathbb{M}$ 45'35	18°26'51	greatest brilliancy	14566 Jul 01 15:23	7° $\mathbb{J}$ 05'40	-0.8m
retrograde	14565 Aug 05 22:13	13° $\mathbb{M}$ 12'23		asc. node	14566 Jul 09 03:16	17° $\mathbb{J}$ 54'02	

evening max el	14566 Jul 13 22:07	23°Ω32'32	19°04'47			14567 Jun 20 21:56	0°Ω	
retrograde	14566 Jul 20 18:23	27°Ω19'01		asc. node		14567 Jun 26 00:09	6°Ω12'58	
evening set	14566 Jul 24 06:04	26°Ω08'33		evening max el		14567 Jun 27 03:04	7°Ω23'06	19°58'35
inferior conj	14566 Jul 29 17:23	20°Ω21'26	2°54'43	retrograde		14567 Jul 04 17:03	11°Ω41'19	
minimum elong	14566 Jul 29 19:00	20°Ω16'14	2°53'44	evening set		14567 Jul 08 14:34	10°Ω13'39	
min. Earth dist.	14566 Jul 31 06:54	18°Ω21'00	0.66726 AU	inferior conj		14567 Jul 13 21:43	4°Ω13'36	3°08'26
morning rise	14566 Aug 04 07:15	13°Ω56'11		minimum elong		14567 Jul 13 22:22	4°Ω11'22	3°07'29
direct	14566 Aug 10 10:41	11°Ω18'17		min. Earth dist.		14567 Jul 14 21:03	2°Ω54'38	0.67960 AU
desc. node	14566 Aug 10 23:51	11°Ω19'25				14567 Jul 17 03:49	30°℞☿	
morning max el	14566 Aug 23 04:06	18°Ω53'05	26°07'09	morning rise		14567 Jul 19 05:48	27°☿49'54	
	14566 Sep 01 14:20	0°♊		direct		14567 Jul 24 22:23	25°☿20'10	
	14566 Sep 21 08:41	0°♊		desc. node		14567 Jul 28 21:17	26°☿19'34	
morning set	14566 Sep 28 03:04	12°♊02'53				14567 Aug 03 03:51	0°Ω	
max. Earth dist.	14566 Oct 01 21:41	19°♊12'08	1.35093 AU	morning max el		14567 Aug 05 14:55	2°Ω20'21	24°45'10
asc. node	14566 Oct 05 05:09	25°♊43'43				14567 Aug 26 16:09	0°♊	
				morning set		14567 Sep 10 08:25	23°♊59'21	
superior conj	14566 Oct 07 09:31	0°♊08'53	0°20'11			14567 Sep 13 17:03	0°♊	
minimum elong	14566 Oct 07 08:24	0°♊03'07	0°20'23	max. Earth dist.		14567 Sep 13 22:08	0°♊23'10	1.37278 AU
	14566 Oct 07 07:47	0°♊						
evening rise	14566 Oct 15 00:36	16°♊00'03		superior conj		14567 Sep 20 19:05	13°♊21'54	-0°11'43
	14566 Oct 22 02:01	0°♊		minimum elong		14567 Sep 20 19:50	13°♊25'36	0°11'26
evening max el	14566 Nov 02 15:17	16°♊43'32	20°37'15	behind sun begin		14567 Sep 20 15:07	13°♊02'34	
desc. node	14566 Nov 06 20:05	20°♊07'54		behind sun end		14567 Sep 21 00:34	13°♊48'40	
retrograde	14566 Nov 13 20:24	22°♊18'10		asc. node		14567 Sep 22 01:43	15°♊52'01	
evening set	14566 Nov 16 04:27	22°♊04'45		evening rise		14567 Sep 29 04:35	0°♊07'15	
inferior conj	14566 Nov 25 02:13	18°♊10'31	-5°07'08			14567 Sep 29 03:08	0°♊	
minimum elong	14566 Nov 24 16:36	18°♊24'23	5°03'57	evening max el		14567 Oct 16 02:17	27°♊54'44	19°26'28
min. Earth dist.	14566 Nov 26 06:38	17°♊29'28	0.54606 AU			14567 Oct 18 11:12	0°♊	
morning rise	14566 Dec 03 04:37	14°♊13'39		desc. node		14567 Oct 24 17:27	2°♊39'45	
direct	14566 Dec 07 14:54	13°♊31'37		retrograde		14567 Oct 25 16:08	2°♊42'27	
morning max el	14566 Dec 20 22:11	20°♊00'36	23°28'53	evening set		14567 Oct 27 13:21	2°♊32'07	
	14566 Dec 29 06:03	0°♊				14567 Nov 02 16:23	30°℞♊	
asc. node	14567 Jan 01 05:33	4°♊33'00		inferior conj		14567 Nov 05 04:53	28°♊25'10	-3°33'11
morning set	14567 Jan 13 12:33	27°♊59'14		minimum elong		14567 Nov 04 20:05	28°♊39'24	3°29'17
	14567 Jan 14 11:05	0°♊		min. Earth dist.		14567 Nov 07 15:58	26°♊49'42	0.55576 AU
				morning rise		14567 Nov 13 00:42	23°♊59'14	
superior conj	14567 Jan 20 09:31	12°♊53'02	1°31'52	direct		14567 Nov 18 08:11	22°♊55'37	
minimum elong	14567 Jan 20 11:00	13°♊01'07	1°32'35			14567 Dec 02 08:48	0°♊	
max. Earth dist.	14567 Jan 23 07:56	19°♊09'35	1.33074 AU	morning max el		14567 Dec 02 07:45	29°♊57'28	25°16'18
evening rise	14567 Jan 28 03:48	29°♊04'38		asc. node		14567 Dec 19 02:41	23°♊04'21	
	14567 Jan 28 14:58	0°♊				14567 Dec 22 20:11	0°♊	
desc. node	14567 Feb 02 19:46	9°♊54'09		morning set		14567 Dec 29 00:19	12°♊40'31	
	14567 Feb 14 21:53	0°♊						
evening max el	14567 Mar 03 10:16	20°♊43'09	27°23'29	superior conj		14568 Jan 04 18:26	27°♊31'32	1°37'27
retrograde	14567 Mar 17 01:33	28°♊12'16		minimum elong		14568 Jan 04 18:53	27°♊34'00	1°38'25
evening set	14567 Mar 23 19:19	25°♊43'06				14568 Jan 05 21:22	0°♊	
min. Earth dist.	14567 Mar 27 15:26	22°♊13'42	0.64524 AU	max. Earth dist.		14568 Jan 06 10:12	1°♊10'23	1.31911 AU
inferior conj	14567 Mar 30 04:09	19°♊30'48	0°01'26	evening rise		14568 Jan 11 23:46	13°♊03'03	
minimum elong	14567 Mar 30 04:06	19°♊30'54	0°01'10	desc. node		14568 Jan 20 16:25	29°♊49'57	
transit middle	14567 Mar 30 04:06	19°♊30'54	0°01'10			14568 Jan 20 18:40	0°♊	
transit begin	14567 Mar 30 01:02	19°♊39'11				14568 Feb 10 07:45	0°♊	
transit end	14567 Mar 30 07:11	19°♊22'38		evening max el		14568 Feb 13 21:04	3°♊40'26	27°34'18
asc. node	14567 Mar 30 02:21	19°♊35'38		retrograde		14568 Feb 27 18:34	11°♊06'08	
morning rise	14567 Apr 05 14:54	14°♊06'46		evening set		14568 Mar 05 15:31	8°♊47'19	
direct	14567 Apr 08 05:08	13°♊32'09		min. Earth dist.		14568 Mar 09 09:37	5°♊44'46	0.62499 AU
morning max el	14567 Apr 14 13:19	16°♊48'14	17°51'52	inferior conj		14568 Mar 12 08:26	2°♊55'08	-1°10'48
	14567 Apr 24 04:59	0°♊		minimum elong		14568 Mar 12 10:50	2°♊49'22	1°09'45
morning set	14567 May 01 19:15	12°♊33'37		asc. node		14568 Mar 15 23:51	29°♊42'04	
desc. node	14567 May 01 22:05	12°♊45'24				14568 Mar 15 14:35	30°℞♊	
	14567 May 12 09:09	0°♊		morning rise		14568 Mar 19 08:59	27°♊47'42	
				direct		14568 Mar 21 15:36	27°♊23'50	
superior conj	14567 May 15 10:29	4°♊54'51	-1°33'25			14568 Mar 27 11:06	0°♊	
minimum elong	14567 May 15 01:49	4°♊20'11	1°33'23	morning max el		14568 Mar 28 07:00	0°♊45'56	17°46'39
max. Earth dist.	14567 May 20 00:43	12°♊11'59	1.45376 AU	morning set		14568 Apr 13 06:29	25°♊17'06	
evening rise	14567 May 31 07:10	29°♊40'35				14568 Apr 15 23:05	0°♊	
	14567 May 31 12:15	0°♊		desc. node		14568 Apr 17 18:41	3°♊09'47	
greatest brilliancy	14567 Jun 15 03:28	21°♊56'36	-0.6m					

superior conj	14568 Apr 25 02:02	15°♄36'14	-0°55'42	max. Earth dist.	14569 Apr 14 06:34	10°♄16'26	1.42393 AU
minimum elong	14568 Apr 24 20:39	15°♄13'47	0°55'35	evening rise	14569 Apr 19 21:20	19°♄23'30	
max. Earth dist.	14568 May 01 17:50	26°♄29'44	1.44161 AU		14569 Apr 26 17:00	0°♄	
	14568 May 03 22:31	0°♄			14569 May 18 05:28	0°♄	
evening rise	14568 May 09 19:31	9°♄11'34		evening max el	14569 May 22 19:53	5°♄05'36	22°22'56
	14568 May 23 16:57	0°♄		asc. node	14569 May 29 18:15	10°♄13'30	
evening max el	14568 Jun 09 01:59	21°♄13'48	21°05'57	retrograde	14569 Jun 01 13:33	10°♄48'38	
asc. node	14568 Jun 11 21:09	23°♄44'21		evening set	14569 Jun 06 08:43	8°♄48'17	
retrograde	14568 Jun 17 16:01	26°♄12'50		inferior conj	14569 Jun 11 15:26	2°♄27'30	3°00'51
evening set	14568 Jun 22 00:01	24°♄28'14		minimum elong	14569 Jun 11 14:14	2°♄31'44	2°59'40
inferior conj	14568 Jun 27 05:45	18°♄16'50	3°10'05	min. Earth dist.	14569 Jun 11 12:10	2°♄38'57	0.69021 AU
minimum elong	14568 Jun 27 05:25	18°♄18'00	3°09'03		14569 Jun 13 10:32	30°♄♄	
min. Earth dist.	14568 Jun 27 15:32	17°♄42'51	0.68729 AU	morning rise	14569 Jun 16 19:34	26°♄15'00	
morning rise	14568 Jul 02 10:34	11°♄57'44		direct	14569 Jun 21 11:32	24°♄17'37	
direct	14568 Jul 07 15:03	9°♄42'09		morning max el	14569 Jun 30 15:23	29°♄38'26	21°48'30
desc. node	14568 Jul 14 18:37	12°♄54'48			14569 Jun 30 23:54	0°♄	
morning max el	14568 Jul 18 01:50	15°♄55'24	23°15'57	desc. node	14569 Jul 01 15:49	0°♄41'22	
	14568 Jul 29 15:36	0°♄			14569 Jul 23 08:26	0°♄	
	14568 Aug 18 15:41	0°♄		morning set	14569 Aug 01 23:43	14°♄55'02	
morning set	14568 Aug 21 16:19	4°♄59'01		max. Earth dist.	14569 Aug 07 22:21	24°♄33'44	1.41934 AU
max. Earth dist.	14568 Aug 25 20:14	12°♄02'59	1.39649 AU		14569 Aug 11 04:20	0°♄	
superior conj	14568 Sep 02 14:13	25°♄54'14	-0°46'52	superior conj	14569 Aug 15 14:38	7°♄36'51	-1°22'14
minimum elong	14568 Sep 02 17:43	26°♄10'23	0°46'28	minimum elong	14569 Aug 15 21:00	8°♄04'40	1°21'52
	14568 Sep 04 18:59	0°♄		asc. node	14569 Aug 25 18:49	25°♄55'49	
asc. node	14568 Sep 07 22:16	5°♄57'09		evening rise	14569 Aug 26 10:32	27°♄08'03	
evening rise	14568 Sep 12 01:07	13°♄52'52			14569 Aug 27 24:00	0°♄	
	14568 Sep 20 19:36	0°♄		evening max el	14569 Sep 11 11:03	22°♄34'19	18°10'12
evening max el	14568 Sep 28 02:12	9°♄54'15	18°37'48	retrograde	14569 Sep 18 13:19	26°♄11'27	
retrograde	14568 Oct 06 05:17	14°♄00'25		evening set	14569 Sep 20 18:04	25°♄51'08	
evening set	14568 Oct 08 03:37	13°♄47'19		inferior conj	14569 Sep 27 23:48	21°♄03'41	-0°08'58
desc. node	14568 Oct 10 14:54	12°♄55'26		minimum elong	14569 Sep 27 23:30	21°♄04'21	0°08'35
inferior conj	14568 Oct 16 03:31	9°♄21'01	-1°45'52	transit middle	14569 Sep 27 23:30	21°♄04'21	0°08'35
minimum elong	14568 Oct 15 23:14	9°♄29'06	1°43'34	transit begin	14569 Sep 27 20:37	21°♄10'40	
min. Earth dist.	14568 Oct 19 07:16	6°♄59'00	0.57287 AU	transit end	14569 Sep 28 02:23	20°♄58'00	
morning rise	14568 Oct 23 15:25	4°♄17'51		desc. node	14569 Sep 27 12:22	21°♄28'40	
direct	14568 Oct 29 15:59	2°♄47'47		min. Earth dist.	14569 Oct 01 06:21	18°♄12'16	0.59446 AU
morning max el	14568 Nov 12 22:12	10°♄15'33	26°45'24	morning rise	14569 Oct 05 01:35	15°♄26'35	
	14568 Nov 28 01:16	0°♄		direct	14569 Oct 11 13:18	13°♄29'46	
asc. node	14568 Dec 04 23:42	12°♄09'16		morning max el	14569 Oct 25 20:22	21°♄15'59	27°41'36
morning set	14568 Dec 12 10:20	27°♄12'53			14569 Nov 02 11:16	0°♄	
	14568 Dec 13 17:17	0°♄			14569 Nov 21 00:17	0°♄	
superior conj	14568 Dec 19 05:35	12°♄13'16	1°36'59	asc. node	14569 Nov 21 20:34	1°♄38'45	
minimum elong	14568 Dec 19 04:58	12°♄09'50	1°38'00	morning set	14569 Nov 26 16:48	11°♄31'28	
max. Earth dist.	14568 Dec 19 17:00	13°♄16'59	1.31251 AU	max. Earth dist.	14569 Dec 03 01:01	25°♄22'48	1.31125 AU
evening rise	14568 Dec 26 02:35	27°♄17'34		superior conj	14569 Dec 03 17:03	26°♄52'24	1°30'36
	14568 Dec 27 09:31	0°♄		minimum elong	14569 Dec 03 15:31	26°♄43'51	1°31'30
desc. node	14569 Jan 06 13:11	19°♄21'41			14569 Dec 05 02:37	0°♄	
	14569 Jan 13 04:18	0°♄		evening rise	14569 Dec 10 10:04	11°♄42'22	
evening max el	14569 Jan 26 03:10	15°♄56'05	27°11'56		14569 Dec 19 13:53	0°♄	
retrograde	14569 Feb 09 03:09	23°♄13'04		desc. node	14569 Dec 24 10:02	8°♄19'28	
evening set	14569 Feb 15 21:12	21°♄12'45		evening max el	14570 Jan 08 02:03	27°♄20'35	26°14'48
min. Earth dist.	14569 Feb 19 17:40	18°♄28'53	0.60304 AU		14570 Jan 11 04:03	0°♄	
inferior conj	14569 Feb 22 22:07	15°♄48'07	-2°33'20	retrograde	14570 Jan 22 01:06	4°♄25'50	
minimum elong	14569 Feb 23 03:44	15°♄36'14	2°30'48	evening set	14570 Jan 28 08:28	2°♄50'49	
morning rise	14569 Mar 02 13:36	10°♄59'55		min. Earth dist.	14570 Feb 01 15:28	0°♄13'49	0.58138 AU
asc. node	14569 Mar 02 21:21	10°♄55'07			14570 Feb 01 23:16	30°♄♄	
direct	14569 Mar 04 14:58	10°♄43'07		inferior conj	14570 Feb 04 17:29	27°♄58'54	-3°59'47
morning max el	14569 Mar 11 22:07	14°♄22'02	17°59'50	minimum elong	14570 Feb 05 02:01	27°♄43'18	3°56'25
	14569 Mar 22 14:56	0°♄		morning rise	14570 Feb 12 22:37	23°♄31'59	
morning set	14569 Mar 27 11:46	8°♄50'51		direct	14570 Feb 14 22:52	23°♄18'31	
desc. node	14569 Apr 04 15:13	23°♄41'17		asc. node	14570 Feb 17 18:48	23°♄46'35	
				morning max el	14570 Feb 23 06:45	27°♄24'29	18°33'06
superior conj	14569 Apr 06 17:25	27°♄23'26	-0°16'48		14570 Feb 25 15:05	0°♄	
minimum elong	14569 Apr 06 15:58	27°♄17'03	0°16'56	morning set	14570 Mar 11 05:40	22°♄57'58	
	14569 Apr 08 05:15	0°♄			14570 Mar 14 21:15	0°♄	

superior conj	14570 Mar 20 05:31	10° $\Upsilon$ 06'38	0°18'25	minimum elong	14571 Mar 03 12:26	23° $\text{X}$ 45'53	0°47'28
minimum elong	14570 Mar 20 06:47	10° $\Upsilon$ 12'27	0°18'09		14571 Mar 06 18:15	0° $\Upsilon$	
desc. node	14570 Mar 22 11:43	14° $\Upsilon$ 15'34		desc. node	14571 Mar 09 08:14	4° $\Upsilon$ 49'15	
max. Earth dist.	14570 Mar 27 15:12	23° $\Upsilon$ 23'42	1.40259 AU	max. Earth dist.	14571 Mar 09 21:42	5° $\Upsilon$ 50'57	1.37987 AU
evening rise	14570 Mar 31 19:33	0° $\text{X}$ 29'52		evening rise	14571 Mar 13 14:34	12° $\Upsilon$ 29'08	
	14570 Mar 31 12:23	0° $\text{X}$			14571 Mar 24 04:22	0° $\text{X}$	
	14570 Apr 20 02:20	0° $\Pi$			14571 Apr 15 06:04	0° $\Pi$	
evening max el	14570 May 05 10:37	18° $\Pi$ 58'42	23°44'07	evening max el	14571 Apr 18 00:07	2° $\Pi$ 52'19	25°02'51
retrograde	14570 May 16 08:13	25° $\Pi$ 22'45		retrograde	14571 Apr 29 22:59	9° $\Pi$ 49'24	
asc. node	14570 May 16 15:26	25° $\Pi$ 22'21		asc. node	14571 May 03 12:42	8° $\Pi$ 55'06	
evening set	14570 May 21 15:01	23° $\Pi$ 08'33		evening set	14571 May 05 17:22	7° $\Pi$ 24'25	
min. Earth dist.	14570 May 26 08:43	17° $\Pi$ 36'07	0.68834 AU	min. Earth dist.	14571 May 10 03:08	2° $\Pi$ 28'33	0.68176 AU
inferior conj	14570 May 27 00:49	16° $\Pi$ 41'04	2°41'16	inferior conj	14571 May 11 07:59	0° $\Pi$ 53'46	2°11'15
minimum elong	14570 May 26 22:57	16° $\Pi$ 47'27	2°39'55	minimum elong	14571 May 11 05:50	1° $\Pi$ 00'53	2°09'48
morning rise	14570 Jun 01 06:52	10° $\Pi$ 36'37			14571 May 12 00:26	30° $\text{R}$ $\text{X}$	
direct	14570 Jun 05 10:29	8° $\Pi$ 59'26		morning rise	14571 May 16 18:36	24° $\text{X}$ 58'37	
morning max el	14570 Jun 13 10:40	13° $\Pi$ 31'51	20°29'55	direct	14571 May 20 10:27	23° $\text{X}$ 41'43	
desc. node	14570 Jun 18 12:54	19° $\Pi$ 19'57		morning max el	14571 May 27 13:26	27° $\text{X}$ 36'27	19°24'45
	14570 Jun 26 09:20	0° $\text{X}$			14571 May 29 19:12	0° $\Pi$	
morning set	14570 Jul 12 09:36	23° $\text{X}$ 56'31		desc. node	14571 Jun 05 09:53	8° $\Pi$ 36'44	
	14570 Jul 16 06:58	0° $\Omega$		greatest brilliancy	14571 Jun 09 05:00	14° $\Pi$ 06'05	-0.7m
max. Earth dist.	14570 Jul 21 07:34	7° $\Omega$ 58'22	1.43855 AU		14571 Jun 19 17:34	0° $\text{X}$	
				morning set	14571 Jun 21 12:17	2° $\text{X}$ 43'57	
superior conj	14570 Jul 27 16:23	18° $\Omega$ 21'08	-1°52'42	max. Earth dist.	14571 Jul 03 22:52	22° $\text{X}$ 03'38	1.45204 AU
minimum elong	14570 Jul 27 23:48	18° $\Omega$ 51'52	1°52'49				
	14570 Aug 03 14:07	0° $\text{X}$		superior conj	14571 Jul 07 18:49	28° $\text{X}$ 07'22	-2°11'13
evening rise	14570 Aug 09 04:11	9° $\text{X}$ 41'06		minimum elong	14571 Jul 07 22:37	28° $\text{X}$ 22'28	2°12'05
asc. node	14570 Aug 12 15:25	15° $\text{X}$ 43'55			14571 Jul 08 23:05	0° $\Omega$	
	14570 Aug 21 09:03	0° $\Omega$		evening rise	14571 Jul 22 00:51	21° $\Omega$ 18'59	
evening max el	14570 Aug 26 00:36	5° $\Omega$ 44'26	18°02'12		14571 Jul 27 06:32	0° $\text{X}$	
retrograde	14570 Sep 01 12:59	9° $\Omega$ 06'55		asc. node	14571 Jul 30 12:03	5° $\text{X}$ 16'03	
evening set	14570 Sep 04 01:44	8° $\Omega$ 35'45		evening max el	14571 Aug 09 15:07	19° $\text{X}$ 14'27	18°12'44
inferior conj	14570 Sep 10 15:06	3° $\Omega$ 28'41	1°07'44	retrograde	14571 Aug 15 23:42	22° $\text{X}$ 36'10	
minimum elong	14570 Sep 10 16:56	3° $\Omega$ 24'02	1°07'02	evening set	14571 Aug 18 20:56	21° $\text{X}$ 51'20	
min. Earth dist.	14570 Sep 13 14:46	0° $\Omega$ 29'03	0.61737 AU	inferior conj	14571 Aug 24 21:21	16° $\text{X}$ 27'10	2°03'26
desc. node	14570 Sep 14 09:52	29° $\text{X}$ 44'04		minimum elong	14571 Aug 24 23:47	16° $\text{X}$ 20'18	2°02'24
	14570 Sep 14 03:00	30° $\text{R}$ $\text{X}$		min. Earth dist.	14571 Aug 27 09:06	13° $\text{X}$ 38'54	0.63912 AU
morning rise	14570 Sep 17 05:34	27° $\text{X}$ 26'24		morning rise	14571 Aug 31 00:54	10° $\text{X}$ 09'31	
direct	14570 Sep 23 21:41	25° $\text{X}$ 07'26		desc. node	14571 Sep 01 07:24	9° $\text{X}$ 15'38	
	14570 Oct 04 16:20	0° $\Omega$		direct	14571 Sep 06 15:30	7° $\text{X}$ 35'56	
morning max el	14570 Oct 08 01:34	3° $\Omega$ 04'56	27°58'54	morning max el	14571 Sep 20 11:16	15° $\text{X}$ 35'46	27°38'43
	14570 Oct 27 24:00	0° $\text{X}$			14571 Oct 02 07:18	0° $\Omega$	
asc. node	14570 Nov 08 17:21	21° $\text{X}$ 25'50			14571 Oct 20 17:10	0° $\text{X}$	
morning set	14570 Nov 10 17:44	25° $\text{X}$ 31'42		morning set	14571 Oct 25 10:43	9° $\text{X}$ 07'11	
	14570 Nov 12 21:04	0° $\text{X}$		asc. node	14571 Oct 26 14:04	11° $\text{X}$ 24'19	
max. Earth dist.	14570 Nov 16 06:31	7° $\text{X}$ 19'00	1.31541 AU	max. Earth dist.	14571 Oct 30 05:36	18° $\text{X}$ 56'21	1.32502 AU
superior conj	14570 Nov 18 03:00	11° $\text{X}$ 23'50	1°18'21	superior conj	14571 Nov 02 09:24	25° $\text{X}$ 41'23	1°00'15
minimum elong	14570 Nov 18 00:52	11° $\text{X}$ 11'58	1°19'02	minimum elong	14571 Nov 02 07:07	25° $\text{X}$ 28'59	1°00'40
evening rise	14570 Nov 24 20:16	26° $\text{X}$ 12'33			14571 Nov 04 09:02	0° $\text{X}$	
	14570 Nov 26 14:49	0° $\text{X}$		evening rise	14571 Nov 09 07:18	10° $\text{X}$ 42'35	
desc. node	14570 Dec 11 07:00	26° $\text{X}$ 30'39			14571 Nov 19 01:12	0° $\text{X}$	
	14570 Dec 13 19:03	0° $\approx$		desc. node	14571 Nov 28 04:06	13° $\text{X}$ 37'30	
evening max el	14570 Dec 20 16:29	7° $\approx$ 54'00	24°48'16	evening max el	14571 Dec 02 02:03	17° $\text{X}$ 54'42	23°06'27
retrograde	14571 Jan 03 10:28	14° $\approx$ 46'18		retrograde	14571 Dec 15 07:11	24° $\text{X}$ 28'15	
evening set	14571 Jan 08 21:31	13° $\approx$ 40'11		evening set	14571 Dec 19 11:58	23° $\text{X}$ 49'54	
min. Earth dist.	14571 Jan 14 04:21	10° $\approx$ 54'01	0.56255 AU	min. Earth dist.	14571 Dec 26 11:41	20° $\text{X}$ 35'01	0.54940 AU
inferior conj	14571 Jan 16 16:01	9° $\approx$ 19'24	-5°15'37	inferior conj	14571 Dec 27 19:00	19° $\text{X}$ 50'04	-5°57'24
minimum elong	14571 Jan 17 00:25	9° $\approx$ 06'02	5°13'02	minimum elong	14571 Dec 27 21:18	19° $\text{X}$ 46'44	5°56'18
morning rise	14571 Jan 25 05:31	5° $\approx$ 13'55		morning rise	14572 Jan 05 08:08	16° $\text{X}$ 00'12	
direct	14571 Jan 27 11:48	4° $\approx$ 59'47		direct	14572 Jan 08 05:50	15° $\text{X}$ 40'21	
asc. node	14571 Feb 04 16:10	8° $\approx$ 19'55		morning max el	14572 Jan 19 12:49	21° $\text{X}$ 05'15	20°47'10
morning max el	14571 Feb 06 04:46	9° $\approx$ 41'55	19°28'29	asc. node	14572 Jan 22 13:30	24° $\text{X}$ 21'39	
	14571 Feb 19 13:29	0° $\text{X}$			14572 Jan 26 16:59	0° $\approx$	
morning set	14571 Feb 23 08:05	7° $\text{X}$ 26'24		morning set	14572 Feb 07 15:57	22° $\approx$ 06'37	
					14572 Feb 11 10:52	0° $\text{X}$	
superior conj	14571 Mar 03 09:56	23° $\text{X}$ 33'44	0°47'38				

superior conj	14572 Feb 15 02:24	7° $\text{H}$ 32'40	1°10'06	morning set	14573 Jan 22 02:49	6° $\approx$ 51'34	
minimum elong	14572 Feb 15 05:00	7° $\text{H}$ 45'59	1°10'14				
max. Earth dist.	14572 Feb 20 06:01	17° $\text{H}$ 49'29	1.35814 AU	superior conj	14573 Jan 29 03:22	21° $\approx$ 53'08	1°25'47
evening rise	14572 Feb 24 03:41	25° $\text{H}$ 13'22		minimum elong	14573 Jan 29 05:23	22° $\approx$ 03'51	1°26'18
desc. node	14572 Feb 24 04:47	25° $\text{H}$ 18'29		max. Earth dist.	14573 Feb 01 20:29	29° $\approx$ 39'09	1.33952 AU
	14572 Feb 26 18:42	0° $\text{Y}$			14573 Feb 02 00:33	0° $\text{H}$	
	14572 Mar 16 17:01	0° $\text{B}$		evening rise	14573 Feb 06 07:21	8° $\text{H}$ 33'11	
evening max el	14572 Mar 30 13:40	16° $\text{B}$ 42'49	26°12'01	desc. node	14573 Feb 10 01:21	15° $\text{H}$ 38'54	
retrograde	14572 Apr 12 09:02	24° $\text{B}$ 01'53			14573 Feb 18 07:57	0° $\text{Y}$	
evening set	14572 Apr 18 14:04	21° $\text{B}$ 30'34			14573 Mar 12 18:16	0° $\text{B}$	
asc. node	14572 Apr 19 10:03	20° $\text{B}$ 46'44		evening max el	14573 Mar 13 03:20	0° $\text{B}$ 22'05	27°04'11
min. Earth dist.	14572 Apr 22 17:22	17° $\text{B}$ 10'04	0.67068 AU	retrograde	14573 Mar 26 13:20	7° $\text{B}$ 51'02	
inferior conj	14572 Apr 24 10:58	15° $\text{B}$ 01'41	1°30'15	evening set	14573 Apr 02 03:08	5° $\text{B}$ 19'16	
minimum elong	14572 Apr 24 09:02	15° $\text{B}$ 07'40	1°28'57	min. Earth dist.	14573 Apr 06 01:25	1° $\text{B}$ 31'56	0.65550 AU
morning rise	14572 Apr 30 04:50	9° $\text{B}$ 17'05		asc. node	14573 Apr 06 07:29	1° $\text{B}$ 15'04	
direct	14572 May 03 09:46	8° $\text{B}$ 18'54			14573 Apr 07 09:55	30° $\text{R}$ $\text{Y}$	
morning max el	14572 May 09 23:19	11° $\text{B}$ 49'04	18°35'23	inferior conj	14573 Apr 08 07:23	28° $\text{Y}$ 58'32	0°37'27
desc. node	14572 May 22 06:47	28° $\text{B}$ 21'43		minimum elong	14573 Apr 08 06:23	29° $\text{Y}$ 01'21	0°36'41
	14572 May 23 08:22	0° $\text{II}$		morning rise	14573 Apr 14 11:13	23° $\text{Y}$ 26'13	
morning set	14572 May 31 04:50	12° $\text{II}$ 15'31		direct	14573 Apr 17 06:22	22° $\text{Y}$ 44'00	
	14572 Jun 11 13:02	0° $\text{E}$		morning max el	14573 Apr 23 14:20	26° $\text{Y}$ 02'09	18°02'46
max. Earth dist.	14572 Jun 15 17:46	6° $\text{E}$ 32'53	1.45857 AU		14573 Apr 27 01:30	0° $\text{B}$	
				desc. node	14573 May 09 03:34	18° $\text{B}$ 26'32	
superior conj	14572 Jun 16 05:29	7° $\text{E}$ 18'35	-2°11'19	morning set	14573 May 12 00:01	23° $\text{B}$ 05'06	
minimum elong	14572 Jun 16 01:37	7° $\text{E}$ 03'32	2°12'14		14573 May 16 06:15	0° $\text{II}$	
	14572 Jun 30 15:56	0° $\text{O}$					
evening rise	14572 Jul 01 20:55	1° $\text{O}$ 54'56		superior conj	14573 May 26 16:05	16° $\text{II}$ 36'13	-1°51'38
greatest brilliancy	14572 Jul 09 15:53	14° $\text{O}$ 15'16	-0.8m	minimum elong	14573 May 26 07:20	16° $\text{II}$ 01'48	1°51'54
asc. node	14572 Jul 16 08:48	24° $\text{O}$ 26'33		max. Earth dist.	14573 May 29 13:44	21° $\text{II}$ 09'27	1.45765 AU
	14572 Jul 20 12:02	0° $\text{np}$			14573 Jun 04 06:02	0° $\text{E}$	
evening max el	14572 Jul 23 03:39	2° $\text{np}$ 57'15	18°40'56	evening rise	14573 Jun 11 18:37	11° $\text{E}$ 37'46	
retrograde	14572 Jul 29 17:23	6° $\text{np}$ 31'17			14573 Jun 23 19:42	0° $\text{O}$	
evening set	14572 Aug 01 23:34	5° $\text{np}$ 30'43		greatest brilliancy	14573 Jun 24 16:50	1° $\text{O}$ 18'28	-0.7m
	14572 Aug 07 11:59	30° $\text{R}$ $\text{O}$		asc. node	14573 Jul 03 05:37	13° $\text{O}$ 07'04	
inferior conj	14572 Aug 07 14:42	29° $\text{O}$ 51'37	2°40'33	evening max el	14573 Jul 06 11:49	16° $\text{O}$ 46'12	19°25'51
minimum elong	14572 Aug 07 16:45	29° $\text{O}$ 45'15	2°39'32	retrograde	14573 Jul 13 14:52	20° $\text{O}$ 44'57	
min. Earth dist.	14572 Aug 09 12:32	27° $\text{O}$ 30'15	0.65806 AU	evening set	14573 Jul 17 06:34	19° $\text{O}$ 27'23	
morning rise	14572 Aug 13 08:55	23° $\text{O}$ 27'06		inferior conj	14573 Jul 22 15:47	13° $\text{O}$ 34'48	3°02'05
desc. node	14572 Aug 18 04:55	20° $\text{O}$ 56'36		minimum elong	14573 Jul 22 17:00	13° $\text{O}$ 30'46	3°01'08
direct	14572 Aug 19 17:25	20° $\text{O}$ 47'59		min. Earth dist.	14573 Jul 23 23:19	11° $\text{O}$ 51'00	0.67309 AU
morning max el	14572 Sep 01 22:37	28° $\text{O}$ 37'07	26°47'20	morning rise	14573 Jul 28 02:52	7° $\text{O}$ 09'38	
	14572 Sep 03 06:33	0° $\text{np}$		direct	14573 Aug 03 02:01	4° $\text{O}$ 34'00	
	14572 Sep 25 02:28	0° $\text{A}$		desc. node	14573 Aug 05 02:23	4° $\text{O}$ 49'26	
morning set	14572 Oct 07 16:50	22° $\text{A}$ 11'16		morning max el	14573 Aug 15 09:33	11° $\text{O}$ 56'19	25°33'38
	14572 Oct 11 16:50	0° $\text{ml}$			14573 Aug 29 21:36	0° $\text{np}$	
max. Earth dist.	14572 Oct 11 19:10	0° $\text{ml}$ 11'40	1.34002 AU		14573 Sep 17 18:52	0° $\text{A}$	
asc. node	14572 Oct 12 10:44	1° $\text{ml}$ 29'49		morning set	14573 Sep 20 08:23	4° $\text{A}$ 34'50	
				max. Earth dist.	14573 Sep 23 22:55	11° $\text{A}$ 15'04	1.35980 AU
superior conj	14572 Oct 16 10:00	9° $\text{ml}$ 39'33	0°36'24	asc. node	14573 Sep 29 07:21	21° $\text{A}$ 38'06	
minimum elong	14572 Oct 16 08:13	9° $\text{ml}$ 30'11	0°36'38				
evening rise	14572 Oct 23 17:17	25° $\text{ml}$ 07'54		superior conj	14573 Sep 30 01:59	23° $\text{A}$ 11'14	0°07'12
	14572 Oct 26 01:19	0° $\text{x}$		minimum elong	14573 Sep 30 01:32	23° $\text{A}$ 08'59	0°07'25
evening max el	14572 Nov 12 16:10	28° $\text{x}$ 00'34	21°27'27	behind sun begin	14573 Sep 29 19:56	22° $\text{A}$ 40'56	
desc. node	14572 Nov 14 01:18	29° $\text{x}$ 17'41		behind sun end	14573 Sep 30 07:08	23° $\text{A}$ 37'05	
	14572 Nov 14 21:22	0° $\text{Z}$			14573 Oct 03 10:34	0° $\text{ml}$	
retrograde	14572 Nov 24 18:47	4° $\text{Z}$ 00'36		evening rise	14573 Oct 08 00:06	9° $\text{ml}$ 23'05	
evening set	14572 Nov 27 15:44	3° $\text{Z}$ 41'40			14573 Oct 19 00:50	0° $\text{x}$	
inferior conj	14572 Dec 06 10:52	29° $\text{x}$ 49'26	-5°42'44	evening max el	14573 Oct 25 18:56	8° $\text{x}$ 44'05	20°04'34
minimum elong	14572 Dec 06 04:12	29° $\text{x}$ 58'47	5°40'49	desc. node	14573 Oct 31 22:35	13° $\text{x}$ 05'05	
	14572 Dec 06 03:20	30° $\text{R}$ $\text{x}$		retrograde	14573 Nov 05 07:18	13° $\text{x}$ 58'16	
min. Earth dist.	14572 Dec 06 17:33	29° $\text{x}$ 40'02	0.54454 AU	evening set	14573 Nov 07 08:52	13° $\text{x}$ 47'05	
morning rise	14572 Dec 14 17:17	26° $\text{x}$ 00'22		inferior conj	14573 Nov 16 05:38	9° $\text{x}$ 49'09	-4°30'59
direct	14572 Dec 18 13:43	25° $\text{x}$ 28'12		minimum elong	14573 Nov 15 19:33	10° $\text{x}$ 04'18	4°27'08
	14572 Dec 29 11:20	0° $\text{Z}$		min. Earth dist.	14573 Nov 18 00:50	8° $\text{x}$ 44'17	0.54911 AU
morning max el	14572 Dec 31 06:49	1° $\text{Z}$ 36'12	22°26'14	morning rise	14573 Nov 24 05:11	5° $\text{x}$ 41'41	
asc. node	14573 Jan 08 10:46	11° $\text{Z}$ 34'19		direct	14573 Nov 29 01:08	4° $\text{x}$ 50'52	
	14573 Jan 18 19:33	0° $\approx$		morning max el	14573 Dec 12 16:34	11° $\text{x}$ 35'10	24°15'33

asc. node	14573 Dec 26 07:58	29°  41'23		asc. node	14574 Dec 13 05:02	18°  28'14	
	14573 Dec 26 12:22	0°  3			14574 Dec 19 03:04	0°  3	
morning set	14574 Jan 06 14:48	21°  36'02		morning set	14574 Dec 22 02:01	6°  13'55	
	14574 Jan 10 11:25	0°  3					
superior conj	14574 Jan 13 10:04	6°  27'27	1°34'59	superior conj	14574 Dec 28 20:08	21°  07'41	1°37'58
minimum elong	14574 Jan 13 11:08	6°  33'17	1°35'49	minimum elong	14574 Dec 28 20:08	21°  07'37	1°38'59
max. Earth dist.	14574 Jan 15 18:54	11°  35'38	1.32519 AU	max. Earth dist.	14574 Dec 29 23:40	23°  40'26	1.31568 AU
evening rise	14574 Jan 20 22:15	22°  20'25			14575 Jan 01 20:53	0°  3	
	14574 Jan 24 19:42	0°  3		evening rise	14575 Jan 04 21:24	6°  26'24	
desc. node	14574 Jan 27 21:58	5°  45'54		desc. node	14575 Jan 14 18:39	25°  32'32	
	14574 Feb 12 02:33	0°  3			14575 Jan 17 08:44	0°  3	
evening max el	14574 Feb 23 16:01	13°  39'36	27°31'57	evening max el	14575 Feb 06 01:19	26°  21'08	27°29'05
retrograde	14574 Mar 09 10:42	21°  39'55			14575 Feb 10 09:33	0°  3	
evening set	14574 Mar 16 06:14	18°  42'33		retrograde	14575 Feb 19 23:58	3°  42'36	
min. Earth dist.	14574 Mar 20 01:16	15°  42'00	0.63693 AU	evening set	14575 Feb 26 20:36	1°  30'54	
inferior conj	14574 Mar 22 18:29	12°  42'00	0.63693 AU		14575 Feb 28 23:33	30°  42'00	
minimum elong	14574 Mar 22 19:22	12°  42'00	0°27'28	min. Earth dist.	14575 Mar 02 15:09	28°  42'00	0.61584 AU
asc. node	14574 Mar 24 04:56	11°  42'00		inferior conj	14575 Mar 05 17:00	25°  42'00	-1°44'43
morning rise	14574 Mar 29 10:50	7°  42'00		minimum elong	14575 Mar 05 20:42	25°  42'00	1°43'02
direct	14574 Mar 31 21:36	6°  42'00		asc. node	14575 Mar 11 02:24	21°  42'00	
morning max el	14574 Apr 07 07:53	10°  42'00	17°47'23	morning rise	14575 Mar 12 23:50	20°  42'00	
	14574 Apr 20 20:49	0°  42'00		direct	14575 Mar 15 04:00	20°  42'00	
morning set	14574 Apr 23 22:11	5°  42'00		morning max el	14575 Mar 22 00:49	23°  42'00	17°49'53
desc. node	14574 Apr 26 00:15	8°  42'00			14575 Mar 26 21:55	0°  42'00	
				morning set	14575 Apr 06 17:48	18°  42'00	
superior conj	14574 May 06 18:28	26°  42'00	-1°18'00	desc. node	14575 Apr 12 20:49	29°  42'00	
minimum elong	14574 May 06 10:54	26°  42'00	1°17'52		14575 Apr 13 07:27	0°  42'00	
	14574 May 08 19:47	0°  42'00		superior conj	14575 Apr 17 20:14	7°  42'00	-0°38'59
max. Earth dist.	14574 May 12 08:49	5°  42'00	1.44945 AU	minimum elong	14575 Apr 17 16:36	7°  42'00	0°38'57
evening rise	14574 May 22 05:41	21°  42'00		max. Earth dist.	14575 Apr 25 00:44	19°  42'00	1.43476 AU
	14574 May 28 03:37	0°  42'00			14575 May 01 10:23	0°  42'00	
evening max el	14574 Jun 18 23:38	0°  42'00		evening rise	14575 May 01 22:21	0°  42'00	
asc. node	14574 Jun 19 14:17	0°  42'00	20°25'47		14575 May 21 17:07	0°  42'00	
retrograde	14574 Jun 20 02:33	1°  42'00		evening max el	14575 Jun 02 10:56	14°  42'00	21°37'47
evening set	14574 Jun 27 13:44	5°  42'00		asc. node	14575 Jun 06 23:33	18°  42'00	
	14574 Jul 01 15:41	3°  42'00		retrograde	14575 Jun 11 12:13	19°  42'00	
inferior conj	14574 Jul 05 01:41	30°  42'00		evening set	14575 Jun 16 01:01	17°  42'00	
minimum elong	14574 Jul 06 21:56	27°  42'00	3°10'29	inferior conj	14575 Jun 21 06:54	11°  42'00	3°07'27
min. Earth dist.	14574 Jul 06 22:10	27°  42'00	3°09'31	minimum elong	14575 Jun 21 06:10	11°  42'00	3°06'21
morning rise	14574 Jul 07 15:28	26°  42'00	0.68357 AU	min. Earth dist.	14575 Jun 21 11:00	11°  42'00	0.68918 AU
direct	14574 Jul 12 04:20	21°  42'00		morning rise	14575 Jun 26 11:08	5°  42'00	
desc. node	14574 Jul 17 16:00	18°  42'00		direct	14575 Jul 01 10:19	3°  42'00	
morning max el	14574 Jul 22 23:45	20°  42'00		desc. node	14575 Jul 09 21:02	7°  42'00	
	14574 Jul 28 19:57	25°  42'00	24°07'23	morning max el	14575 Jul 11 07:41	9°  42'00	22°38'06
	14574 Aug 01 23:34	0°  42'00			14575 Jul 27 17:28	0°  42'00	
morning set	14574 Aug 23 09:23	0°  42'00		morning set	14575 Aug 14 02:43	26°  42'00	
max. Earth dist.	14574 Sep 02 05:02	16°  42'00			14575 Aug 16 03:08	0°  42'00	
	14574 Sep 05 21:30	22°  42'00	1.38284 AU	max. Earth dist.	14575 Aug 18 21:23	4°  42'00	1.40654 AU
	14574 Sep 09 23:35	0°  42'00					
superior conj	14574 Sep 13 05:54	6°  42'00	-0°26'23	superior conj	14575 Aug 26 17:40	18°  42'00	-1°02'06
minimum elong	14574 Sep 13 07:44	6°  42'00	0°26'02	minimum elong	14575 Aug 26 22:26	18°  42'00	1°01'39
asc. node	14574 Sep 16 03:55	11°  42'00			14575 Sep 02 01:21	0°  42'00	
evening rise	14574 Sep 22 01:16	23°  42'00		asc. node	14575 Sep 03 00:28	1°  42'00	
	14574 Sep 25 10:47	0°  42'00		evening rise	14575 Sep 05 17:38	6°  42'00	
evening max el	14574 Oct 08 11:50	20°  42'00	19°03'05		14575 Sep 19 09:23	0°  42'00	
retrograde	14574 Oct 17 09:34	24°  42'00		evening max el	14575 Sep 21 16:01	2°  42'00	18°23'29
desc. node	14574 Oct 18 19:58	24°  42'00		retrograde	14575 Sep 29 07:16	6°  42'00	
evening set	14574 Oct 19 06:28	24°  42'00		evening set	14575 Oct 01 07:56	6°  42'00	
inferior conj	14574 Oct 27 16:01	20°  42'00	-2°47'30	desc. node	14575 Oct 05 17:25	4°  42'00	
minimum elong	14574 Oct 27 09:00	20°  42'00	2°44'06	inferior conj	14575 Oct 09 00:02	1°  42'00	-1°02'36
min. Earth dist.	14574 Oct 30 12:02	18°  42'00	0.56229 AU	minimum elong	14575 Oct 08 21:38	1°  42'00	1°01'11
morning rise	14574 Nov 04 08:47	15°  42'00			14575 Oct 10 22:53	30°  42'00	
direct	14574 Nov 10 00:23	14°  42'00		min. Earth dist.	14575 Oct 12 06:15	28°  42'00	0.58168 AU
morning max el	14574 Nov 24 03:16	21°  42'00	25°57'36	morning rise	14575 Oct 16 07:52	26°  42'00	
	14574 Dec 01 11:40	0°  42'00		direct	14575 Oct 22 13:45	24°  42'00	
					14575 Nov 03 11:21	0°  42'00	

morning max el	14575 Nov 05 21:06	2°♍11'13	27°14'01	direct	14576 Oct 03 16:06	5°♌40'10	
	14575 Nov 25 21:21	0°♌		morning max el	14576 Oct 17 22:44	13°♌33'01	27°53'45
asc. node	14575 Nov 30 02:00	7°♌44'38			14576 Oct 31 03:04	0°♍	
morning set	14575 Dec 06 10:45	20°♌40'52		asc. node	14576 Nov 15 22:51	27°♍22'09	
	14575 Dec 10 17:11	0°♎			14576 Nov 17 06:23	0°♌	
				morning set	14576 Nov 19 15:07	4°♌52'05	
superior conj	14575 Dec 13 07:37	5°♎48'29	1°34'59	max. Earth dist.	14576 Nov 25 14:52	17°♌50'00	1.31230 AU
minimum elong	14575 Dec 13 06:36	5°♎42'43	1°35'59				
max. Earth dist.	14575 Dec 13 07:33	5°♎48'02	1.31133 AU	superior conj	14576 Nov 26 18:40	20°♌24'38	1°26'07
evening rise	14575 Dec 20 02:26	20°♎45'25		minimum elong	14576 Nov 26 16:50	20°♌14'24	1°26'56
	14575 Dec 24 13:44	0°♏			14576 Dec 01 02:06	0°♎	
desc. node	14576 Jan 01 15:26	14°♏50'56		evening rise	14576 Dec 03 11:17	5°♎12'27	
	14576 Jan 11 20:01	0°♐			14576 Dec 16 07:59	0°♏	
evening max el	14576 Jan 19 04:26	8°♐14'39	26°51'38	desc. node	14576 Dec 18 12:22	3°♏30'33	
retrograde	14576 Feb 02 04:01	15°♐26'47		evening max el	14576 Dec 30 23:26	19°♏15'27	25°40'54
evening set	14576 Feb 08 18:53	13°♐36'11		retrograde	14577 Jan 13 21:17	26°♏16'28	
min. Earth dist.	14576 Feb 12 18:25	10°♐57'17	0.59369 AU	evening set	14577 Jan 19 21:11	24°♏53'23	
inferior conj	14576 Feb 15 23:14	8°♐25'24	-3°10'10	min. Earth dist.	14577 Jan 24 12:09	22°♏14'40	0.57276 AU
minimum elong	14576 Feb 16 06:15	8°♐11'28	3°07'08	inferior conj	14577 Jan 27 09:52	20°♏15'03	-4°34'34
morning rise	14576 Feb 23 20:55	3°♐46'21		minimum elong	14577 Jan 27 18:56	19°♏59'27	4°31'18
direct	14576 Feb 25 21:16	3°♐31'22		morning rise	14577 Feb 04 19:31	15°♏57'51	
asc. node	14576 Feb 25 23:51	3°♐31'25		direct	14577 Feb 06 21:06	15°♏44'45	
morning max el	14576 Mar 04 13:40	7°♐20'06	18°11'29	asc. node	14577 Feb 11 21:17	17°♏06'54	
	14576 Mar 19 01:31	0°♑		morning max el	14577 Feb 15 18:23	20°♏05'15	18°53'58
morning set	14576 Mar 20 04:59	2°♑08'42			14577 Feb 23 05:12	0°♐	
				morning set	14577 Mar 04 02:58	16°♐26'11	
superior conj	14576 Mar 29 20:56	20°♑02'37	-0°01'14		14577 Mar 11 01:33	0°♑	
minimum elong	14576 Mar 29 20:50	20°♑02'07	0°01'27				
behind sun begin	14576 Mar 29 13:18	19°♑28'13		superior conj	14577 Mar 12 16:37	3°♑06'33	0°31'36
behind sun end	14576 Mar 30 04:22	20°♑35'57		minimum elong	14577 Mar 12 18:33	3°♑15'45	0°31'20
desc. node	14576 Mar 29 17:20	19°♑46'22		desc. node	14577 Mar 16 13:52	10°♑21'09	
	14576 Apr 04 13:01	0°♒		max. Earth dist.	14577 Mar 19 18:37	16°♑06'37	1.39285 AU
max. Earth dist.	14576 Apr 06 11:43	3°♒18'30	1.41516 AU	evening rise	14577 Mar 23 15:41	22°♑50'33	
evening rise	14576 Apr 11 08:21	11°♒20'29			14577 Mar 27 22:47	0°♒	
	14576 Apr 23 09:31	0°♓			14577 Apr 17 06:37	0°♓	
evening max el	14576 May 15 03:01	28°♓20'12	22°57'18	evening max el	14577 Apr 27 16:57	12°♓13'53	24°18'19
	14576 May 16 21:04	0°♈		retrograde	14577 May 09 02:06	18°♓53'58	
asc. node	14576 May 23 20:40	4°♈11'44		asc. node	14577 May 10 17:53	18°♓41'57	
retrograde	14576 May 25 08:45	4°♈21'49		evening set	14577 May 14 13:45	16°♓34'47	
evening set	14576 May 30 08:53	2°♈15'02		min. Earth dist.	14577 May 19 03:51	11°♓17'48	0.68606 AU
	14576 Jun 01 13:15	30°♑♓		inferior conj	14577 May 20 01:23	10°♓05'10	2°29'52
inferior conj	14576 Jun 04 16:40	25°♓50'48	2°53'49	minimum elong	14577 May 19 23:20	10°♓12'03	2°28'27
minimum elong	14576 Jun 04 15:08	25°♓56'05	2°52'33	morning rise	14577 May 25 09:02	4°♓04'19	
min. Earth dist.	14576 Jun 04 07:50	26°♓21'29	0.68997 AU	direct	14577 May 29 07:29	2°♓35'56	
morning rise	14576 Jun 09 21:18	19°♓41'39		morning max el	14577 Jun 05 21:56	6°♓51'18	20°00'19
direct	14576 Jun 14 07:51	17°♓53'02		desc. node	14577 Jun 12 15:14	14°♓48'38	
morning max el	14576 Jun 22 23:30	22°♓52'29	21°13'41		14577 Jun 23 06:45	0°♈	
desc. node	14576 Jun 25 18:11	25°♓52'02		morning set	14577 Jul 03 04:25	14°♈59'54	
	14576 Jun 29 03:46	0°♉			14577 Jul 12 19:18	0°♊	
	14576 Jul 20 00:25	0°♊		max. Earth dist.	14577 Jul 13 13:53	1°♊13'42	1.44509 AU
morning set	14576 Jul 24 00:03	6°♊11'10					
max. Earth dist.	14576 Jul 31 02:25	17°♊31'59	1.42807 AU	superior conj	14577 Jul 19 00:17	9°♊57'20	-2°02'27
				minimum elong	14577 Jul 19 06:51	10°♊24'02	2°02'55
superior conj	14576 Aug 07 08:43	29°♊38'39	-1°36'08		14577 Jul 31 00:47	0°♋	
minimum elong	14576 Aug 07 15:56	0°♋09'26	1°35'56	evening rise	14577 Aug 01 06:19	2°♋05'58	
	14576 Aug 07 13:44	0°♋		asc. node	14577 Aug 06 17:38	11°♋25'06	
evening rise	14576 Aug 18 20:59	19°♋55'11		evening max el	14577 Aug 18 17:43	28°♋47'17	18°04'30
asc. node	14576 Aug 19 21:01	21°♋43'16			14577 Aug 20 01:59	0°♌	
	14576 Aug 24 12:46	0°♍		retrograde	14577 Aug 25 03:22	2°♌07'40	
evening max el	14576 Sep 04 03:18	15°♌27'35	18°04'26	evening set	14577 Aug 27 19:38	1°♌31'04	
retrograde	14576 Sep 10 22:35	18°♌57'06			14577 Aug 30 05:49	30°♑♋	
evening set	14576 Sep 13 06:29	18°♌32'43		inferior conj	14577 Sep 03 03:06	26°♋16'45	1°33'48
inferior conj	14576 Sep 20 04:55	13°♌36'42	0°26'12	minimum elong	14577 Sep 03 05:20	26°♋10'47	1°32'54
minimum elong	14576 Sep 20 05:45	13°♌34'45	0°26'01	min. Earth dist.	14577 Sep 05 22:14	23°♋19'27	0.62694 AU
desc. node	14576 Sep 21 14:55	12°♌16'41		desc. node	14577 Sep 08 12:27	20°♋54'21	
min. Earth dist.	14576 Sep 23 09:26	10°♌38'57	0.60418 AU	morning rise	14577 Sep 09 12:47	20°♋06'46	
morning rise	14576 Sep 27 01:53	7°♌47'16		direct	14577 Sep 16 05:04	17°♋40'06	



morning max el	14577 Sep 30 06:04	25° $\text{M}$ 40'25	27°54'25	morning rise	14578 Aug 23 13:52	3° $\text{M}$ 05'49	
	14577 Oct 04 06:04	0° $\text{L}$		desc. node	14578 Aug 26 09:58	1° $\text{M}$ 17'51	
	14577 Oct 24 15:54	0° $\text{M}$		direct	14578 Aug 30 02:31	0° $\text{M}$ 28'41	
asc. node	14577 Nov 02 19:37	17° $\text{M}$ 14'31		morning max el	14578 Sep 12 16:33	8° $\text{M}$ 25'00	27°20'07
morning set	14577 Nov 03 12:58	18° $\text{M}$ 42'16			14578 Sep 29 11:49	0° $\text{L}$	
max. Earth dist.	14577 Nov 08 17:49	29° $\text{M}$ 37'30	1.31879 AU		14578 Oct 16 23:56	0° $\text{M}$	
	14577 Nov 08 21:59	0° $\text{X}$		morning set	14578 Oct 18 01:45	2° $\text{M}$ 05'25	
				asc. node	14578 Oct 20 16:20	7° $\text{M}$ 16'38	
superior conj	14577 Nov 11 03:23	4° $\text{X}$ 50'48	1°11'24	max. Earth dist.	14578 Oct 22 13:05	11° $\text{M}$ 05'18	1.33079 AU
minimum elong	14577 Nov 11 01:07	4° $\text{X}$ 38'19	1°11'57				
evening rise	14577 Nov 17 22:03	19° $\text{X}$ 42'49		superior conj	14578 Oct 26 07:41	19° $\text{M}$ 01'23	0°50'51
	14577 Nov 22 20:24	0° $\text{Z}$		minimum elong	14578 Oct 26 05:30	18° $\text{M}$ 49'48	0°51'09
desc. node	14577 Dec 05 09:23	21° $\text{Z}$ 16'35			14578 Oct 31 09:57	0° $\text{X}$	
evening max el	14577 Dec 12 11:06	29° $\text{Z}$ 31'39	24°05'51	evening rise	14578 Nov 02 08:55	4° $\text{X}$ 11'56	
	14577 Dec 12 23:08	0° $\text{Z}$			14578 Nov 16 05:09	0° $\text{Z}$	
retrograde	14577 Dec 26 01:22	6° $\text{Z}$ 17'10		desc. node	14578 Nov 22 06:32	7° $\text{Z}$ 49'52	
evening set	14577 Dec 31 00:10	5° $\text{Z}$ 23'45		evening max el	14578 Nov 23 21:33	9° $\text{Z}$ 30'35	22°23'03
min. Earth dist.	14578 Jan 05 22:37	2° $\text{Z}$ 27'30	0.55601 AU	retrograde	14578 Dec 06 16:48	15° $\text{Z}$ 51'04	
inferior conj	14578 Jan 07 23:35	1° $\text{Z}$ 13'28	-5°39'09	evening set	14578 Dec 10 07:36	15° $\text{Z}$ 22'20	
minimum elong	14578 Jan 08 06:10	1° $\text{Z}$ 03'30	5°37'17	min. Earth dist.	14578 Dec 18 04:49	11° $\text{Z}$ 49'50	0.54625 AU
	14578 Jan 10 01:04	30° $\text{R}$ $\text{Z}$		inferior conj	14578 Dec 18 20:27	11° $\text{Z}$ 27'53	-5°58'48
morning rise	14578 Jan 16 13:59	27° $\text{Z}$ 15'25		minimum elong	14578 Dec 18 18:47	11° $\text{Z}$ 30'13	5°57'43
direct	14578 Jan 19 01:29	26° $\text{Z}$ 59'36		morning rise	14578 Dec 27 07:06	7° $\text{Z}$ 40'35	
	14578 Jan 27 02:50	0° $\text{Z}$		direct	14578 Dec 30 14:14	7° $\text{Z}$ 16'06	
morning max el	14578 Jan 29 10:46	2° $\text{Z}$ 00'11	19°59'11	morning max el	14579 Jan 11 12:24	12° $\text{Z}$ 59'35	21°27'10
asc. node	14578 Jan 29 18:40	2° $\text{Z}$ 19'34		asc. node	14579 Jan 16 16:00	18° $\text{Z}$ 53'38	
	14578 Feb 15 20:10	0° $\text{X}$			14579 Jan 23 17:43	0° $\text{Z}$	
morning set	14578 Feb 16 08:02	1° $\text{X}$ 00'16		morning set	14579 Jan 31 17:28	15° $\text{Z}$ 43'17	
superior conj	14578 Feb 24 02:37	16° $\text{X}$ 48'05	0°57'59	superior conj	14579 Feb 07 23:03	0° $\text{X}$ 56'52	1°17'33
minimum elong	14578 Feb 24 05:16	17° $\text{X}$ 01'18	0°57'56	minimum elong	14579 Feb 08 01:29	1° $\text{X}$ 09'28	1°17'51
max. Earth dist.	14578 Mar 02 01:08	28° $\text{X}$ 18'27	1.37033 AU		14579 Feb 07 12:08	0° $\text{X}$	
	14578 Mar 02 22:54	0° $\text{Y}$		max. Earth dist.	14579 Feb 12 11:59	10° $\text{X}$ 12'00	1.34981 AU
desc. node	14578 Mar 03 10:24	0° $\text{Y}$ 53'14		evening rise	14579 Feb 16 14:36	18° $\text{X}$ 10'29	
evening rise	14578 Mar 05 18:51	5° $\text{Y}$ 10'13		desc. node	14579 Feb 18 06:57	21° $\text{X}$ 19'02	
	14578 Mar 20 21:26	0° $\text{Z}$			14579 Feb 23 03:28	0° $\text{Y}$	
evening max el	14578 Apr 10 06:33	26° $\text{Z}$ 07'19	25°33'58		14579 Mar 15 02:30	0° $\text{Z}$	
	14578 Apr 14 17:35	0° $\text{II}$		evening max el	14579 Mar 23 20:23	9° $\text{Z}$ 54'21	26°36'45
retrograde	14578 Apr 22 14:58	3° $\text{II}$ 15'06		retrograde	14579 Apr 05 22:27	17° $\text{Z}$ 18'05	
asc. node	14578 Apr 27 15:12	1° $\text{II}$ 31'15		evening set	14579 Apr 12 07:35	14° $\text{Z}$ 45'59	
evening set	14578 Apr 28 13:55	0° $\text{II}$ 47'08		asc. node	14579 Apr 14 12:35	12° $\text{Z}$ 42'41	
	14578 Apr 29 10:48	30° $\text{R}$ $\text{Z}$		min. Earth dist.	14579 Apr 16 08:40	10° $\text{Z}$ 39'55	0.66474 AU
min. Earth dist.	14578 May 02 20:52	26° $\text{Z}$ 06'14	0.67756 AU	inferior conj	14579 Apr 18 07:31	8° $\text{Z}$ 19'59	1°09'21
inferior conj	14578 May 04 07:03	24° $\text{Z}$ 16'33	1°55'16	minimum elong	14579 Apr 18 05:53	8° $\text{Z}$ 24'53	1°08'13
minimum elong	14578 May 04 04:55	24° $\text{Z}$ 23'26	1°53'52	morning rise	14579 Apr 24 05:17	2° $\text{Z}$ 40'17	
morning rise	14578 May 09 20:24	18° $\text{Z}$ 25'23		direct	14579 Apr 27 06:02	1° $\text{Z}$ 49'05	
direct	14578 May 13 07:30	17° $\text{Z}$ 16'35		morning max el	14579 May 03 16:03	5° $\text{Z}$ 12'20	18°19'26
morning max el	14578 May 20 03:46	20° $\text{Z}$ 59'22	19°01'41	desc. node	14579 May 17 09:02	24° $\text{Z}$ 12'11	
	14578 May 27 12:09	0° $\text{II}$			14579 May 21 00:52	0° $\text{II}$	
desc. node	14578 May 30 12:12	4° $\text{II}$ 18'22		morning set	14579 May 23 13:47	4° $\text{II}$ 02'16	
greatest brilliancy	14578 Jun 02 07:40	8° $\text{II}$ 29'05	-0.7m				
morning set	14578 Jun 12 10:38	23° $\text{II}$ 59'26		superior conj	14579 Jun 08 02:58	28° $\text{II}$ 32'28	-2°05'10
	14578 Jun 16 07:48	0° $\text{Z}$		minimum elong	14579 Jun 07 20:18	28° $\text{II}$ 06'25	2°05'51
max. Earth dist.	14578 Jun 26 06:55	15° $\text{Z}$ 30'42	1.45578 AU	max. Earth dist.	14579 Jun 09 03:08	0° $\text{Z}$ 06'44	1.45914 AU
					14579 Jun 09 01:24	0° $\text{Z}$	
superior conj	14578 Jun 28 18:38	19° $\text{Z}$ 25'02	-2°13'46	evening rise	14579 Jun 24 02:28	23° $\text{Z}$ 28'16	
minimum elong	14578 Jun 28 19:21	19° $\text{Z}$ 27'53	2°14'46		14579 Jun 28 06:44	0° $\text{Z}$	
	14578 Jul 05 10:55	0° $\text{Z}$		greatest brilliancy	14579 Jul 04 06:09	9° $\text{Z}$ 15'21	-0.8m
evening rise	14578 Jul 13 16:43	13° $\text{Z}$ 17'26		asc. node	14579 Jul 11 11:05	19° $\text{Z}$ 47'25	
	14578 Jul 24 01:42	0° $\text{M}$		evening max el	14579 Jul 16 18:44	26° $\text{Z}$ 10'06	18°58'03
asc. node	14578 Jul 24 14:19	0° $\text{M}$ 48'50		retrograde	14579 Jul 23 13:02	29° $\text{Z}$ 52'59	
evening max el	14578 Aug 02 07:48	12° $\text{M}$ 24'05	18°22'39	evening set	14579 Jul 26 23:16	28° $\text{Z}$ 45'05	
retrograde	14578 Aug 08 17:22	15° $\text{M}$ 49'03		inferior conj	14579 Aug 01 11:28	22° $\text{Z}$ 59'53	2°51'26
evening set	14578 Aug 11 18:27	14° $\text{M}$ 57'36		minimum elong	14579 Aug 01 13:13	22° $\text{Z}$ 54'20	2°50'27
inferior conj	14578 Aug 17 14:29	9° $\text{M}$ 26'59	2°21'15	min. Earth dist.	14579 Aug 03 03:07	20° $\text{Z}$ 53'50	0.66499 AU
minimum elong	14578 Aug 17 16:51	9° $\text{M}$ 20'02	2°20'12	morning rise	14579 Aug 07 02:24	16° $\text{Z}$ 34'39	
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
































































































































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morning max el	14579 Aug 26 03:55	21° $\Omega$ 35'15	26°18'13	min. Earth dist.	14580 Jul 16 16:29	5° $\Omega$ 24'28	0.67806 AU
	14579 Sep 02 11:56	0° $\Pi$		morning rise	14580 Jul 20 23:49	0° $\Omega$ 25'44	
	14579 Sep 22 16:55	0° $\Xi$			14580 Jul 21 11:53	30° $\mathcal{R}\mathfrak{E}$	
morning set	14579 Oct 01 02:08	14° $\Xi$ 53'05		direct	14580 Jul 26 18:07	27° $\mathfrak{E}$ 54'17	
max. Earth dist.	14579 Oct 04 22:39	22° $\Xi$ 14'57	1.34798 AU	desc. node	14580 Jul 30 04:51	28° $\mathfrak{E}$ 39'29	
asc. node	14579 Oct 07 12:57	27° $\Xi$ 23'32			14580 Aug 01 16:49	0° $\Omega$	
	14579 Oct 08 19:55	0° $\mathbb{M}$		morning max el	14580 Aug 07 14:49	5° $\Omega$ 00'53	24°58'00
					14580 Aug 26 21:14	0° $\Pi$	
superior conj	14579 Oct 10 04:57	2° $\mathbb{M}$ 48'57	0°24'38	morning set	14580 Sep 12 10:15	26° $\Pi$ 56'47	
minimum elong	14579 Oct 10 03:37	2° $\mathbb{M}$ 42'06	0°24'50		14580 Sep 14 03:14	0° $\Xi$	
evening rise	14579 Oct 17 17:50	18° $\mathbb{M}$ 33'43		max. Earth dist.	14580 Sep 15 23:41	3° $\Xi$ 22'31	1.36936 AU
	14579 Oct 23 09:59	0° $\mathcal{A}$					
evening max el	14579 Nov 05 16:16	19° $\mathcal{A}$ 48'40	20°49'37	superior conj	14580 Sep 22 16:15	16° $\Xi$ 06'43	-0°06'38
desc. node	14579 Nov 09 03:47	22° $\mathcal{A}$ 45'04		minimum elong	14580 Sep 22 16:40	16° $\Xi$ 08'44	0°06'22
retrograde	14579 Nov 17 03:14	25° $\mathcal{A}$ 30'21		behind sun begin	14580 Sep 22 10:37	15° $\Xi$ 39'03	
evening set	14579 Nov 19 14:09	25° $\mathcal{A}$ 15'49		behind sun end	14580 Sep 22 22:43	16° $\Xi$ 38'28	
inferior conj	14579 Nov 28 11:38	21° $\mathcal{A}$ 22'22	-5°18'10	asc. node	14580 Sep 23 09:32	17° $\Xi$ 31'50	
minimum elong	14579 Nov 28 02:32	21° $\mathcal{A}$ 35'22	5°15'18		14580 Sep 29 14:25	0° $\mathbb{M}$	
min. Earth dist.	14579 Nov 29 10:31	20° $\mathcal{A}$ 49'38	0.54537 AU	evening rise	14580 Sep 30 22:36	2° $\mathbb{M}$ 42'52	
morning rise	14579 Dec 06 15:04	17° $\mathcal{A}$ 28'15			14580 Oct 17 05:06	0° $\mathcal{A}$	
direct	14579 Dec 10 21:45	16° $\mathcal{A}$ 49'02		evening max el	14580 Oct 18 01:05	0° $\mathcal{A}$ 52'03	19°35'35
morning max el	14579 Dec 24 01:49	23° $\mathcal{A}$ 12'41	23°12'29	desc. node	14580 Oct 26 01:05	5° $\mathcal{A}$ 36'44	
	14579 Dec 30 01:25	0° $\mathfrak{Z}$		retrograde	14580 Oct 27 20:46	5° $\mathcal{A}$ 46'31	
asc. node	14580 Jan 03 13:14	6° $\mathfrak{Z}$ 30'48		evening set	14580 Oct 29 18:35	5° $\mathcal{A}$ 36'13	
	14580 Jan 15 23:41	0° $\approx$		inferior conj	14580 Nov 07 11:51	1° $\mathcal{A}$ 31'54	-3°48'57
morning set	14580 Jan 16 05:02	0° $\approx$ 28'27		minimum elong	14580 Nov 07 02:33	1° $\mathcal{A}$ 46'39	3°44'58
					14580 Nov 09 21:56	30° $\mathcal{R}\mathbb{M}$	
superior conj	14580 Jan 23 02:45	15° $\approx$ 23'42	1°30'27	min. Earth dist.	14580 Nov 09 19:18	0° $\mathcal{A}$ 04'04	0.55378 AU
minimum elong	14580 Jan 23 04:24	15° $\approx$ 32'32	1°31'08	morning rise	14580 Nov 15 08:37	27° $\mathbb{M}$ 10'59	
max. Earth dist.	14580 Jan 26 06:00	22° $\approx$ 03'49	1.33285 AU	direct	14580 Nov 20 13:14	26° $\mathbb{M}$ 10'48	
	14580 Jan 30 02:51	0° $\mathcal{H}$			14580 Nov 30 17:18	0° $\mathcal{A}$	
evening rise	14580 Jan 30 23:23	1° $\mathcal{H}$ 42'11		morning max el	14580 Dec 04 11:07	3° $\mathcal{A}$ 08'36	25°01'03
desc. node	14580 Feb 05 03:33	11° $\mathcal{H}$ 34'03		asc. node	14580 Dec 20 10:22	24° $\mathcal{A}$ 55'47	
	14580 Feb 16 02:04	0° $\Upsilon$			14580 Dec 23 05:19	0° $\mathfrak{Z}$	
evening max el	14580 Mar 05 09:44	23° $\Upsilon$ 25'05	27°19'21	morning set	14580 Dec 30 16:52	15° $\mathfrak{Z}$ 10'23	
	14580 Mar 14 15:40	0° $\mathcal{B}$					
retrograde	14580 Mar 18 23:47	0° $\mathcal{B}$ 54'39		superior conj	14581 Jan 06 11:09	0° $\approx$ 01'07	1°36'59
	14580 Mar 23 01:32	30° $\mathcal{R}\Upsilon$		minimum elong	14581 Jan 06 11:46	0° $\approx$ 04'29	1°37'56
evening set	14580 Mar 25 16:42	28° $\Upsilon$ 24'27			14581 Jan 06 10:57	0° $\approx$	
min. Earth dist.	14580 Mar 29 13:16	24° $\Upsilon$ 50'39	0.64799 AU	max. Earth dist.	14581 Jan 08 07:12	4° $\approx$ 02'44	1.32048 AU
asc. node	14580 Mar 31 10:01	22° $\Upsilon$ 49'00		evening rise	14581 Jan 13 18:05	15° $\approx$ 37'40	
inferior conj	14580 Apr 01 00:19	22° $\Upsilon$ 09'44	0°11'21		14581 Jan 21 03:42	0° $\mathcal{H}$	
minimum elong	14580 Apr 01 00:00	22° $\Upsilon$ 10'36	0°10'55	desc. node	14581 Jan 22 00:12	1° $\mathcal{H}$ 32'50	
transit middle	14580 Apr 01 00:00	22° $\Upsilon$ 10'36	0°10'55		14581 Feb 09 21:45	0° $\Upsilon$	
transit begin	14580 Mar 31 21:46	22° $\Upsilon$ 16'43		evening max el	14581 Feb 15 21:01	6° $\Upsilon$ 27'40	27°34'47
transit end	14580 Apr 01 02:14	22° $\Upsilon$ 04'30		retrograde	14581 Mar 01 18:05	13° $\Upsilon$ 54'37	
morning rise	14580 Apr 07 09:12	16° $\Upsilon$ 43'35		evening set	14581 Mar 08 14:46	11° $\Upsilon$ 33'49	
direct	14580 Apr 10 00:39	16° $\Upsilon$ 07'08		min. Earth dist.	14581 Mar 12 08:57	8° $\Upsilon$ 27'36	0.62811 AU
morning max el	14580 Apr 16 08:33	19° $\Upsilon$ 23'22	17°54'10	inferior conj	14581 Mar 15 06:28	5° $\Upsilon$ 37'58	-0°59'04
	14580 Apr 24 09:44	0° $\mathcal{B}$		minimum elong	14581 Mar 15 08:26	5° $\Upsilon$ 33'08	0°58'16
desc. node	14580 May 03 05:46	14° $\mathcal{B}$ 23'26		asc. node	14581 Mar 18 07:29	2° $\Upsilon$ 50'08	
morning set	14580 May 03 20:54	15° $\mathcal{B}$ 26'14		morning rise	14581 Mar 22 04:50	0° $\Upsilon$ 27'51	
	14580 May 12 17:37	0° $\mathbb{I}$		direct	14581 Mar 24 12:26	0° $\Upsilon$ 02'39	
				morning max el	14581 Mar 31 02:17	3° $\Upsilon$ 23'20	17°46'15
superior conj	14580 May 17 18:45	8° $\mathbb{I}$ 06'07	-1°38'34	morning set	14581 Apr 16 04:55	28° $\Upsilon$ 00'35	
minimum elong	14580 May 17 09:53	7° $\mathbb{I}$ 30'49	1°38'35		14581 Apr 17 08:21	0° $\mathcal{B}$	
max. Earth dist.	14580 May 21 23:18	14° $\mathbb{I}$ 43'31	1.45496 AU	desc. node	14581 Apr 20 02:24	4° $\mathcal{B}$ 46'21	
	14580 May 31 19:23	0° $\mathfrak{E}$					
evening rise	14580 Jun 02 17:47	2° $\mathfrak{E}$ 58'04		superior conj	14581 Apr 28 06:44	18° $\mathcal{B}$ 37'23	-1°01'39
greatest brilliancy	14580 Jun 17 06:02	24° $\mathfrak{E}$ 47'50	-0.6m	minimum elong	14581 Apr 28 00:44	18° $\mathcal{B}$ 12'32	1°01'30
	14580 Jun 20 21:43	0° $\Omega$		max. Earth dist.	14581 May 04 16:43	29° $\mathcal{B}$ 03'46	1.44381 AU
asc. node	14580 Jun 27 07:57	8° $\Omega$ 12'26			14581 May 05 06:48	0° $\mathbb{I}$	
evening max el	14580 Jun 29 00:31	10° $\Omega$ 00'15	19°49'36	evening rise	14581 May 13 05:12	12° $\mathbb{I}$ 25'25	
retrograde	14580 Jul 06 11:30	14° $\Omega$ 13'17			14581 May 24 21:41	0° $\mathfrak{E}$	
evening set	14580 Jul 10 07:28	12° $\Omega$ 48'15		evening max el	14581 Jun 12 00:19	23° $\mathfrak{E}$ 50'53	20°55'11
inferior conj	14580 Jul 15 15:02	6° $\Omega$ 50'02	3°07'09	asc. node	14581 Jun 14 04:54	25° $\mathfrak{E}$ 51'42	

retrograde	14581 Jun 20 10:29	28° $\text{♄}$ 43'22		inferior conj	14582 Jun 14 08:12	5° $\text{♄}$ 00'51	3°02'55
evening set	14581 Jun 24 16:52	27° $\text{♄}$ 01'20		minimum elong	14582 Jun 14 07:06	5° $\text{♄}$ 04'39	3°01'45
inferior conj	14581 Jun 29 22:39	20° $\text{♄}$ 51'38	3°10'32	min. Earth dist.	14582 Jun 14 06:51	5° $\text{♄}$ 05'34	0.69012 AU
minimum elong	14581 Jun 29 22:28	20° $\text{♄}$ 52'17	3°09'31		14582 Jun 18 06:07	30° $\text{♄}$ II	
min. Earth dist.	14581 Jun 30 10:28	20° $\text{♄}$ 10'41	0.68648 AU	morning rise	14582 Jun 19 12:17	28° $\text{♄}$ II47'22	
morning rise	14581 Jul 05 03:47	14° $\text{♄}$ 31'40		direct	14582 Jun 24 06:09	26° $\text{♄}$ II47'03	
direct	14581 Jul 10 10:09	12° $\text{♄}$ 13'32			14582 Jul 01 03:38	0° $\text{♄}$	
desc. node	14581 Jul 17 02:10	15° $\text{♄}$ 01'34		morning max el	14582 Jul 03 14:22	2° $\text{♄}$ 15'20	22°01'05
morning max el	14581 Jul 21 01:28	18° $\text{♄}$ 34'16	23°29'15	desc. node	14582 Jul 03 23:25	2° $\text{♄}$ 38'14	
	14581 Jul 30 16:07	0° $\text{♄}$			14582 Jul 24 14:15	0° $\text{♄}$	
	14581 Aug 19 23:37	0° $\text{♄}$		morning set	14582 Aug 05 08:39	18° $\text{♄}$ 10'26	
morning set	14581 Aug 24 21:36	8° $\text{♄}$ 05'25		max. Earth dist.	14582 Aug 10 23:00	27° $\text{♄}$ 18'52	1.41612 AU
max. Earth dist.	14581 Aug 28 21:31	14° $\text{♄}$ 55'32	1.39296 AU		14582 Aug 12 13:30	0° $\text{♄}$	
superior conj	14581 Sep 05 13:50	28° $\text{♄}$ 45'50	-0°41'27	superior conj	14582 Aug 18 17:19	10° $\text{♄}$ 36'20	-1°17'03
minimum elong	14581 Sep 05 16:53	29° $\text{♄}$ 00'01	0°41'02	minimum elong	14582 Aug 18 23:19	11° $\text{♄}$ 02'43	1°16'39
	14581 Sep 06 05:43	0° $\text{♄}$		asc. node	14582 Aug 28 02:39	27° $\text{♄}$ 37'32	
asc. node	14581 Sep 10 06:06	7° $\text{♄}$ 37'45		evening rise	14582 Aug 29 07:48	29° $\text{♄}$ 52'26	
evening rise	14581 Sep 14 20:27	16° $\text{♄}$ 32'09			14582 Aug 29 09:26	0° $\text{♄}$	
	14581 Sep 22 00:39	0° $\text{♄}$		evening max el	14582 Sep 14 07:10	25° $\text{♄}$ 19'41	18°13'01
evening max el	14581 Sep 30 23:21	12° $\text{♄}$ 45'06	18°43'41	retrograde	14582 Sep 21 12:22	29° $\text{♄}$ 00'16	
retrograde	14581 Oct 09 06:55	16° $\text{♄}$ 56'32		evening set	14582 Sep 23 16:03	28° $\text{♄}$ 41'14	
evening set	14581 Oct 11 04:42	16° $\text{♄}$ 44'05		desc. node	14582 Sep 29 19:55	24° $\text{♄}$ 57'05	
desc. node	14581 Oct 12 22:27	16° $\text{♄}$ 12'27		inferior conj	14582 Oct 01 00:26	23° $\text{♄}$ 56'42	-0°22'29
inferior conj	14581 Oct 19 07:14	12° $\text{♄}$ 20'57	-2°01'48	minimum elong	14582 Sep 30 23:38	23° $\text{♄}$ 58'25	0°21'50
minimum elong	14581 Oct 19 02:14	12° $\text{♄}$ 30'10	1°59'12	min. Earth dist.	14582 Oct 04 07:11	21° $\text{♄}$ 08'34	0.59108 AU
min. Earth dist.	14581 Oct 22 09:32	10° $\text{♄}$ 04'59	0.56996 AU	morning rise	14582 Oct 08 03:50	18° $\text{♄}$ 24'17	
morning rise	14581 Oct 26 20:28	7° $\text{♄}$ 23'33		direct	14582 Oct 14 14:18	16° $\text{♄}$ 31'27	
direct	14581 Nov 01 18:59	5° $\text{♄}$ 57'27		morning max el	14582 Oct 28 21:28	24° $\text{♄}$ 14'56	27°35'43
morning max el	14581 Nov 16 00:26	13° $\text{♄}$ 21'38	26°33'59		14582 Nov 03 03:20	0° $\text{♄}$	
	14581 Nov 29 03:45	0° $\text{♄}$			14582 Nov 22 10:06	0° $\text{♄}$	
asc. node	14581 Dec 07 07:24	13° $\text{♄}$ 56'33		asc. node	14582 Nov 24 04:19	3° $\text{♄}$ 22'49	
morning set	14581 Dec 15 03:16	29° $\text{♄}$ 44'32		morning set	14582 Nov 29 10:22	14° $\text{♄}$ 05'17	
	14581 Dec 15 06:08	0° $\text{♄}$		superior conj	14582 Dec 06 09:38	29° $\text{♄}$ 22'31	1°31'57
superior conj	14581 Dec 21 22:06	14° $\text{♄}$ 42'57	1°37'26	minimum elong	14582 Dec 06 08:14	29° $\text{♄}$ 14'39	1°32'53
minimum elong	14581 Dec 21 21:38	14° $\text{♄}$ 40'23	1°38'28	max. Earth dist.	14582 Dec 05 21:45	28° $\text{♄}$ 16'04	1.31112 AU
max. Earth dist.	14581 Dec 22 13:35	16° $\text{♄}$ 09'22	1.31316 AU		14582 Dec 06 16:20	0° $\text{♄}$	
evening rise	14581 Dec 28 20:04	29° $\text{♄}$ 50'33		evening rise	14582 Dec 13 02:59	14° $\text{♄}$ 13'57	
	14581 Dec 28 21:51	0° $\text{♄}$			14582 Dec 20 22:20	0° $\text{♄}$	
desc. node	14582 Jan 08 20:55	21° $\text{♄}$ 08'47		desc. node	14582 Dec 26 17:44	10° $\text{♄}$ 12'09	
	14582 Jan 14 06:21	0° $\text{♄}$			14583 Jan 10 18:40	0° $\text{♄}$	
evening max el	14582 Jan 29 04:07	18° $\text{♄}$ 50'46	27°17'32	evening max el	14583 Jan 11 04:13	0° $\text{♄}$ 22'52	26°25'21
retrograde	14582 Feb 12 03:55	26° $\text{♄}$ 08'54		retrograde	14583 Jan 25 03:21	7° $\text{♄}$ 29'36	
evening set	14582 Feb 18 22:48	24° $\text{♄}$ 05'31		evening set	14583 Jan 31 13:02	5° $\text{♄}$ 50'28	
min. Earth dist.	14582 Feb 22 18:37	21° $\text{♄}$ 19'23	0.60637 AU	min. Earth dist.	14583 Feb 04 17:46	3° $\text{♄}$ 13'26	0.58453 AU
inferior conj	14582 Feb 25 22:33	18° $\text{♄}$ 36'23	-2°20'20	inferior conj	14583 Feb 07 20:51	0° $\text{♄}$ 53'43	-3°46'57
minimum elong	14582 Feb 26 03:40	18° $\text{♄}$ 25'21	2°18'01	minimum elong	14583 Feb 08 05:03	0° $\text{♄}$ 38'24	3°43'36
morning rise	14582 Mar 05 11:48	13° $\text{♄}$ 44'56			14583 Feb 09 01:55	30° $\text{♄}$ III	
asc. node	14582 Mar 05 04:56	13° $\text{♄}$ 50'02		morning rise	14583 Feb 16 00:11	26° $\text{♄}$ 23'33	
direct	14582 Mar 07 13:46	13° $\text{♄}$ 27'17		direct	14583 Feb 18 00:20	26° $\text{♄}$ 09'46	
morning max el	14582 Mar 14 17:59	17° $\text{♄}$ 03'04	17°56'36	asc. node	14583 Feb 20 02:23	26° $\text{♄}$ 25'21	
	14582 Mar 23 22:11	0° $\text{♄}$			14583 Feb 25 23:20	0° $\text{♄}$	
morning set	14582 Mar 30 07:53	11° $\text{♄}$ 27'52		morning max el	14583 Feb 26 03:49	0° $\text{♄}$ 10'51	18°26'48
desc. node	14582 Apr 06 22:59	25° $\text{♄}$ 16'58		morning set	14583 Mar 14 00:12	25° $\text{♄}$ 30'46	
					14583 Mar 16 08:25	0° $\text{♄}$	
superior conj	14582 Apr 09 18:39	0° $\text{♄}$ 14'43	-0°22'32	superior conj	14583 Mar 23 03:58	12° $\text{♄}$ 50'15	0°13'27
minimum elong	14582 Apr 09 16:39	0° $\text{♄}$ 06'04	0°22'38	minimum elong	14583 Mar 23 04:55	12° $\text{♄}$ 54'35	0°13'09
	14582 Apr 09 15:16	0° $\text{♄}$		behind sun begin	14583 Mar 23 00:49	12° $\text{♄}$ 35'46	
max. Earth dist.	14582 Apr 17 06:17	12° $\text{♄}$ 56'02	1.42691 AU	behind sun end	14583 Mar 23 09:00	13° $\text{♄}$ 13'23	
evening rise	14582 Apr 23 04:22	22° $\text{♄}$ 29'36		desc. node	14583 Mar 24 19:32	15° $\text{♄}$ 50'59	
	14582 Apr 27 24:00	0° $\text{♄}$		max. Earth dist.	14583 Mar 30 15:39	26° $\text{♄}$ 10'01	1.40594 AU
	14582 May 19 01:54	0° $\text{♄}$			14583 Apr 01 21:42	0° $\text{♄}$	
evening max el	14582 May 25 18:54	7° $\text{♄}$ 42'14	22°11'05	evening rise	14583 Apr 03 23:24	3° $\text{♄}$ 27'25	
asc. node	14582 Jun 01 01:57	12° $\text{♄}$ 30'53			14583 Apr 21 05:59	0° $\text{♄}$	
retrograde	14582 Jun 04 08:14	13° $\text{♄}$ 18'24		evening max el	14583 May 08 09:57	21° $\text{♄}$ 34'55	23°32'01
evening set	14582 Jun 09 01:45	11° $\text{♄}$ 20'16					

asc. node	14583 May 18 23:05	27° $\Pi$ 53'03		retrograde	14584 May 01 18:55	12° $\Pi$ 21'34	
retrograde	14583 May 19 03:24	27° $\Pi$ 53'12		asc. node	14584 May 04 20:21	11° $\Pi$ 41'23	
evening set	14583 May 24 08:32	25° $\Pi$ 40'45		evening set	14584 May 07 11:37	9° $\Pi$ 57'51	
min. Earth dist.	14583 May 29 03:31	20° $\Pi$ 02'57	0.68892 AU	min. Earth dist.	14584 May 11 22:24	4° $\Pi$ 56'37	0.68301 AU
inferior conj	14583 May 29 17:45	19° $\Pi$ 14'03	2°44'55	inferior conj	14584 May 13 01:24	3° $\Pi$ 27'16	2°16'31
minimum elong	14583 May 29 15:58	19° $\Pi$ 20'11	2°43'35	minimum elong	14584 May 12 23:16	3° $\Pi$ 34'22	2°15'05
morning rise	14583 Jun 03 23:22	13° $\Pi$ 08'28			14584 May 15 19:29	30° $\mathbb{R}$ 8	
direct	14583 Jun 08 04:47	11° $\Pi$ 28'18		morning rise	14584 May 18 11:11	27° $\mathbb{S}$ 30'40	
morning max el	14583 Jun 16 08:44	16° $\Pi$ 07'15	20°40'53	direct	14584 May 22 04:41	26° $\mathbb{S}$ 10'55	
desc. node	14583 Jun 20 20:34	21° $\Pi$ 09'56			14584 May 29 06:05	0° $\Pi$	
	14583 Jun 27 12:21	0° $\mathbb{S}$		morning max el	14584 May 29 10:27	0° $\Pi$ 10'36	19°33'29
morning set	14583 Jul 15 21:10	27° $\mathbb{S}$ 18'23		desc. node	14584 Jun 06 17:36	10° $\Pi$ 21'45	
	14583 Jul 17 14:43	0° $\Omega$		greatest brilliancy	14584 Jun 11 01:47	16° $\Pi$ 34'48	-0.6m
max. Earth dist.	14583 Jul 24 07:21	10° $\Omega$ 36'41	1.43599 AU		14584 Jun 20 00:23	0° $\mathbb{S}$	
				morning set	14584 Jun 23 23:37	6° $\mathbb{S}$ 04'14	
superior conj	14583 Jul 30 22:35	21° $\Omega$ 29'15	-1°48'40	max. Earth dist.	14584 Jul 05 21:45	24° $\mathbb{S}$ 36'16	1.45044 AU
minimum elong	14583 Jul 31 06:05	22° $\Omega$ 00'33	1°48'42		14584 Jul 09 07:26	0° $\Omega$	
	14583 Aug 04 23:19	0° $\mathbb{R}$					
evening rise	14583 Aug 12 04:09	12° $\mathbb{R}$ 32'33		superior conj	14584 Jul 10 04:16	1° $\Omega$ 23'07	-2°09'30
asc. node	14583 Aug 14 23:14	17° $\mathbb{R}$ 27'20		minimum elong	14584 Jul 10 08:58	1° $\Omega$ 41'55	2°10'15
	14583 Aug 22 10:01	0° $\mathbb{S}$		evening rise	14584 Jul 24 04:16	24° $\Omega$ 19'11	
evening max el	14583 Aug 28 20:15	8° $\mathbb{S}$ 25'37	18°02'12		14584 Jul 27 13:48	0° $\mathbb{R}$	
retrograde	14583 Sep 04 10:09	11° $\mathbb{S}$ 49'37		asc. node	14584 Jul 31 19:52	7° $\mathbb{R}$ 02'01	
evening set	14583 Sep 06 21:36	11° $\mathbb{S}$ 20'19		evening max el	14584 Aug 11 10:50	21° $\mathbb{R}$ 52'50	18°10'02
inferior conj	14583 Sep 13 13:12	6° $\mathbb{S}$ 15'54	0°57'26	retrograde	14584 Aug 17 19:28	25° $\mathbb{R}$ 13'54	
minimum elong	14583 Sep 13 14:50	6° $\mathbb{S}$ 11'51	0°56'52	evening set	14584 Aug 20 15:22	24° $\mathbb{R}$ 31'20	
min. Earth dist.	14583 Sep 16 14:15	3° $\mathbb{S}$ 16'12	0.61395 AU	inferior conj	14584 Aug 26 17:30	19° $\mathbb{R}$ 09'40	1°56'13
desc. node	14583 Sep 16 17:27	3° $\mathbb{S}$ 08'41		minimum elong	14584 Aug 26 19:54	19° $\mathbb{R}$ 02'57	1°55'12
morning rise	14583 Sep 20 05:21	0° $\mathbb{S}$ 16'36		min. Earth dist.	14584 Aug 29 07:15	16° $\mathbb{R}$ 18'28	0.63603 AU
	14583 Sep 20 15:26	30° $\mathbb{R}$ 11		morning rise	14584 Sep 01 22:35	12° $\mathbb{R}$ 53'36	
direct	14583 Sep 26 21:06	28° $\mathbb{R}$ 00'35		desc. node	14584 Sep 02 14:59	12° $\mathbb{R}$ 23'38	
	14583 Oct 03 13:34	0° $\mathbb{S}$		direct	14584 Sep 08 13:42	10° $\mathbb{R}$ 21'31	
morning max el	14583 Oct 11 01:54	5° $\mathbb{S}$ 57'03	27°58'49	morning max el	14584 Sep 22 11:10	18° $\mathbb{R}$ 22'11	27°43'50
	14583 Oct 29 05:24	0° $\mathbb{M}$			14584 Oct 02 06:36	0° $\mathbb{S}$	
asc. node	14583 Nov 11 01:10	23° $\mathbb{M}$ 07'32			14584 Oct 21 03:06	0° $\mathbb{M}$	
morning set	14583 Nov 13 12:17	28° $\mathbb{M}$ 08'21		morning set	14584 Oct 27 06:39	11° $\mathbb{M}$ 47'47	
	14583 Nov 14 09:44	0° $\mathbb{X}$		asc. node	14584 Oct 27 21:54	13° $\mathbb{M}$ 04'29	
max. Earth dist.	14583 Nov 19 03:56	10° $\mathbb{X}$ 14'11	1.31445 AU	max. Earth dist.	14584 Nov 01 04:07	21° $\mathbb{M}$ 53'59	1.32321 AU
superior conj	14583 Nov 20 19:57	13° $\mathbb{X}$ 55'01	1°20'36	superior conj	14584 Nov 04 03:02	28° $\mathbb{M}$ 14'50	1°03'23
minimum elong	14583 Nov 20 17:52	13° $\mathbb{X}$ 43'31	1°21'18	minimum elong	14584 Nov 04 00:43	28° $\mathbb{M}$ 02'19	1°03'50
evening rise	14583 Nov 27 12:55	28° $\mathbb{X}$ 43'13			14584 Nov 04 22:22	0° $\mathbb{X}$	
	14583 Nov 28 03:11	0° $\mathbb{S}$		evening rise	14584 Nov 10 23:56	13° $\mathbb{X}$ 13'14	
desc. node	14583 Dec 13 14:42	28° $\mathbb{S}$ 30'59			14584 Nov 19 07:53	0° $\mathbb{S}$	
	14583 Dec 14 15:03	0° $\approx$		desc. node	14584 Nov 29 11:46	15° $\mathbb{S}$ 48'50	
evening max el	14583 Dec 23 19:43	11° $\approx$ 02'23	25°02'28	evening max el	14584 Dec 04 05:33	21° $\mathbb{S}$ 06'04	23°21'56
retrograde	14584 Jan 06 14:49	17° $\approx$ 57'06		retrograde	14584 Dec 17 13:37	27° $\mathbb{S}$ 43'23	
evening set	14584 Jan 12 05:36	16° $\approx$ 46'28		evening set	14584 Dec 21 23:11	27° $\mathbb{S}$ 01'21	
min. Earth dist.	14584 Jan 17 07:43	14° $\approx$ 02'52	0.56505 AU	min. Earth dist.	14584 Dec 28 15:50	23° $\mathbb{S}$ 51'52	0.55083 AU
inferior conj	14584 Jan 19 22:29	12° $\approx$ 21'23	-5°05'45	inferior conj	14584 Dec 30 04:07	22° $\mathbb{S}$ 59'08	-5°54'22
minimum elong	14584 Jan 20 07:15	12° $\approx$ 07'11	5°02'56	minimum elong	14584 Dec 30 07:44	22° $\mathbb{S}$ 53'54	5°53'07
morning rise	14584 Jan 28 11:18	8° $\approx$ 13'06		morning rise	14585 Jan 07 17:52	19° $\mathbb{S}$ 07'32	
direct	14584 Jan 30 16:05	7° $\approx$ 59'23		direct	14585 Jan 10 12:30	18° $\mathbb{S}$ 49'00	
asc. node	14584 Feb 06 23:49	10° $\approx$ 43'31		morning max el	14585 Jan 21 14:03	24° $\mathbb{S}$ 07'40	20°34'01
morning max el	14584 Feb 09 03:43	12° $\approx$ 35'32	19°18'50	asc. node	14585 Jan 23 21:11	26° $\mathbb{S}$ 33'13	
	14584 Feb 20 22:48	0° $\mathbb{X}$			14585 Jan 26 14:49	0° $\approx$	
morning set	14584 Feb 26 01:34	9° $\mathbb{X}$ 56'24		morning set	14585 Feb 09 08:48	24° $\approx$ 35'28	
					14585 Feb 11 23:28	0° $\mathbb{X}$	
superior conj	14584 Mar 05 06:16	26° $\mathbb{X}$ 11'38	0°43'38				
minimum elong	14584 Mar 05 08:39	26° $\mathbb{X}$ 23'11	0°43'25	superior conj	14585 Feb 16 21:12	10° $\mathbb{X}$ 06'44	1°07'06
	14584 Mar 07 05:48	0° $\mathbb{Y}$		minimum elong	14585 Feb 16 23:50	10° $\mathbb{X}$ 20'09	1°07'11
desc. node	14584 Mar 10 16:03	6° $\mathbb{Y}$ 24'52		max. Earth dist.	14585 Feb 22 05:48	20° $\mathbb{X}$ 43'35	1.36120 AU
max. Earth dist.	14584 Mar 11 22:11	8° $\mathbb{Y}$ 42'22	1.38320 AU	desc. node	14585 Feb 25 12:35	26° $\mathbb{X}$ 55'06	
evening rise	14584 Mar 15 15:28	15° $\mathbb{Y}$ 19'05		evening rise	14585 Feb 26 02:10	27° $\mathbb{X}$ 57'38	
	14584 Mar 24 11:38	0° $\mathbb{S}$			14585 Feb 27 05:01	0° $\mathbb{Y}$	
	14584 Apr 14 22:36	0° $\Pi$			14585 Mar 17 19:35	0° $\mathbb{S}$	
evening max el	14584 Apr 19 23:29	5° $\Pi$ 28'23	24°51'33	evening max el	14585 Apr 02 13:00	19° $\mathbb{S}$ 19'56	26°02'37

retrograde	14585 Apr 15 05:49	26°♄36'45		14586 Feb 19 15:25	0°♄	
evening set	14585 Apr 21 09:17	24°♄06'07		14586 Mar 13 04:10	0°♄	
asc. node	14585 Apr 21 17:42	23°♄48'11		evening max el	14586 Mar 16 02:46	3°♄01'39 26°57'47
min. Earth dist.	14585 Apr 25 13:29	19°♄40'19	0.67260 AU	retrograde	14586 Mar 29 10:58	10°♄29'31
inferior conj	14585 Apr 27 05:10	17°♄36'29	1°37'16	evening set	14586 Apr 04 23:35	7°♄57'35
minimum elong	14585 Apr 27 03:09	17°♄42'46	1°35'55	asc. node	14586 Apr 08 15:06	4°♄26'18
morning rise	14585 May 02 21:46	11°♄50'05		min. Earth dist.	14586 Apr 08 22:36	4°♄05'23 0.65803 AU
direct	14585 May 06 04:14	10°♄49'16		inferior conj	14586 Apr 11 02:42	1°♄35'12 0°46'18
morning max el	14585 May 12 19:20	14°♄22'27	18°41'39	minimum elong	14586 Apr 11 01:30	1°♄38'38 0°45'24
desc. node	14585 May 24 14:31	0°♄03'06			14586 Apr 12 12:16	30°♄
	14585 May 24 13:42	0°♄		morning rise	14586 Apr 17 04:51	26°♄00'46
morning set	14585 Jun 03 12:58	15°♄26'04		direct	14586 Apr 20 01:25	25°♄16'18
	14585 Jun 12 21:01	0°♄		morning max el	14586 Apr 26 09:40	28°♄35'26 18°06'29
max. Earth dist.	14585 Jun 18 16:02	9°♄02'02	1.45812 AU		14586 Apr 27 18:05	0°♄
				desc. node	14586 May 11 11:17	20°♄05'07
superior conj	14585 Jun 19 16:30	10°♄37'34	-2°12'37	morning set	14586 May 15 03:54	26°♄03'18
minimum elong	14585 Jun 19 13:49	10°♄27'05	2°13'36		14586 May 17 14:30	0°♄
	14585 Jul 01 23:45	0°♄				
evening rise	14585 Jul 05 04:05	5°♄04'07		superior conj	14586 May 30 01:56	19°♄51'03 -1°55'42
greatest brilliancy	14585 Jul 11 21:58	15°♄49'40	-0.9m	minimum elong	14586 May 29 17:30	19°♄17'59 1°56'05
asc. node	14585 Jul 18 16:35	26°♄16'01		max. Earth dist.	14586 Jun 01 12:04	23°♄38'41 1.45831 AU
	14585 Jul 21 07:53	0°♄			14586 Jun 05 13:57	0°♄
evening max el	14585 Jul 25 23:50	5°♄33'57	18°35'37	evening rise	14586 Jun 15 04:33	14°♄53'13
retrograde	14585 Aug 01 12:15	9°♄05'12			14586 Jun 25 00:41	0°♄
evening set	14585 Aug 04 17:03	8°♄07'06		greatest brilliancy	14586 Jun 27 10:44	3°♄38'25 -0.7m
inferior conj	14585 Aug 10 09:22	2°♄30'13	2°35'58	asc. node	14586 Jul 05 13:22	15°♄01'41
minimum elong	14585 Aug 10 11:31	2°♄23'38	2°34'56	evening max el	14586 Jul 09 08:47	19°♄22'39 19°18'09
	14585 Aug 12 10:43	30°♄		retrograde	14586 Jul 16 09:15	23°♄16'42
min. Earth dist.	14585 Aug 12 09:23	0°♄03'58	0.65553 AU	evening set	14586 Jul 19 23:34	22°♄01'38
morning rise	14585 Aug 16 04:52	26°♄06'21		inferior conj	14586 Jul 25 09:28	16°♄11'01 2°59'42
desc. node	14585 Aug 20 12:30	23°♄43'26		minimum elong	14586 Jul 25 10:50	16°♄06'33 2°58'43
direct	14585 Aug 22 14:36	23°♄27'18		min. Earth dist.	14586 Jul 26 19:06	14°♄21'13 0.67116 AU
	14585 Sep 03 14:02	0°♄		morning rise	14586 Jul 30 21:29	9°♄45'46
morning max el	14585 Sep 04 22:16	1°♄18'56	26°56'32	direct	14586 Aug 05 22:12	7°♄09'10
	14585 Sep 26 09:03	0°♄		desc. node	14586 Aug 07 09:57	7°♄17'35
morning set	14585 Oct 10 14:34	24°♄56'34		morning max el	14586 Aug 18 09:15	14°♄36'00 25°45'38
	14585 Oct 13 04:47	0°♄			14586 Aug 30 23:39	0°♄
asc. node	14585 Oct 14 18:34	3°♄08'54			14586 Sep 19 04:22	0°♄
max. Earth dist.	14585 Oct 14 18:59	3°♄11'00	1.33742 AU	morning set	14586 Sep 23 08:32	7°♄26'47
				max. Earth dist.	14586 Sep 27 00:11	14°♄15'35 1.35662 AU
superior conj	14585 Oct 19 04:38	12°♄16'00	0°40'23	asc. node	14586 Oct 01 15:10	23°♄17'01
minimum elong	14585 Oct 19 02:43	12°♄05'55	0°40'38			
evening rise	14585 Oct 26 10:10	27°♄39'10		superior conj	14586 Oct 02 22:06	25°♄52'17 0°11'56
	14585 Oct 27 12:56	0°♄		minimum elong	14586 Oct 02 21:24	25°♄48'42 0°12'09
	14585 Nov 14 15:36	0°♄		behind sun begin	14586 Oct 02 17:18	25°♄28'05
evening max el	14585 Nov 15 18:25	1°♄08'44	21°41'29	behind sun end	14586 Oct 03 01:29	26°♄09'21
desc. node	14585 Nov 16 08:56	1°♄43'32			14586 Oct 04 22:49	0°♄
retrograde	14585 Nov 28 01:49	7°♄14'28		evening rise	14586 Oct 10 17:37	11°♄56'24
evening set	14585 Dec 01 03:04	6°♄53'26			14586 Oct 20 03:36	0°♄
inferior conj	14585 Dec 09 20:50	3°♄01'15	-5°49'01	evening max el	14586 Oct 28 19:00	11°♄45'06 20°15'34
minimum elong	14585 Dec 09 15:20	3°♄08'56	5°47'23	desc. node	14586 Nov 03 06:12	15°♄49'33
min. Earth dist.	14585 Dec 09 21:47	2°♄59'55	0.54463 AU	retrograde	14586 Nov 08 13:12	17°♄06'21
	14585 Dec 15 20:13	30°♄		evening set	14586 Nov 10 16:45	16°♄54'33
morning rise	14585 Dec 18 04:21	29°♄13'11		inferior conj	14586 Nov 19 14:09	12°♄58'12 -4°44'37
direct	14585 Dec 21 21:16	28°♄43'12		minimum elong	14586 Nov 19 04:04	13°♄13'06 4°40'57
	14585 Dec 27 15:16	0°♄		min. Earth dist.	14586 Nov 21 04:26	12°♄01'37 0.54784 AU
morning max el	14586 Jan 03 09:51	4°♄45'17	22°10'29	morning rise	14586 Nov 27 14:41	8°♄54'54
asc. node	14586 Jan 10 18:30	13°♄36'16		direct	14586 Dec 02 07:25	8°♄07'13
	14586 Jan 20 06:11	0°♄		morning max el	14586 Dec 15 20:09	14°♄46'16 23°59'19
morning set	14586 Jan 24 19:22	9°♄19'59			14586 Dec 27 16:16	0°♄
				asc. node	14586 Dec 28 15:41	1°♄35'46
superior conj	14586 Jan 31 21:03	24°♄24'19	1°23'48	morning set	14587 Jan 09 07:16	24°♄04'33
minimum elong	14586 Jan 31 23:12	24°♄35'37	1°24'17		14587 Jan 12 00:54	0°♄
	14586 Feb 03 13:17	0°♄				
max. Earth dist.	14586 Feb 04 19:13	2°♄33'30	1.34205 AU	superior conj	14587 Jan 16 03:02	8°♄56'33 1°33'58
evening rise	14586 Feb 09 03:52	11°♄12'42		minimum elong	14587 Jan 16 04:15	9°♄03'13 1°34'47
desc. node	14586 Feb 12 09:07	17°♄16'59		max. Earth dist.	14587 Jan 18 16:35	14°♄28'47 1.32703 AU

evening rise	14587 Jan 23 17:15	24° $\approx$ 55'52		evening rise	14588 Jan 07 15:19	8° $\approx$ 59'01	
	14587 Jan 26 06:49	0° $\text{H}$		desc. node	14588 Jan 17 02:24	27° $\approx$ 16'02	
desc. node	14587 Jan 30 05:42	7° $\text{H}$ 26'05			14588 Jan 18 15:51	0° $\text{H}$	
	14587 Feb 13 03:20	0° $\text{Y}$		evening max el	14588 Feb 09 01:36	29° $\text{H}$ 10'12	27°31'40
evening max el	14587 Feb 26 15:45	16° $\text{Y}$ 23'00	27°29'37		14588 Feb 09 22:59	0° $\text{Y}$	
retrograde	14587 Mar 12 09:17	23° $\text{Y}$ 51'31		retrograde	14588 Feb 22 23:51	6° $\text{Y}$ 33'15	
evening set	14587 Mar 19 04:18	21° $\text{Y}$ 24'43		evening set	14588 Feb 29 20:46	4° $\text{Y}$ 18'53	
min. Earth dist.	14587 Mar 22 23:41	18° $\text{Y}$ 03'07	0.63992 AU	min. Earth dist.	14588 Mar 04 15:02	1° $\text{Y}$ 22'33	0.61904 AU
inferior conj	14587 Mar 25 15:22	15° $\text{Y}$ 17'07	-0°17'00		14588 Mar 06 03:08	30° $\text{R}$ $\text{H}$	
minimum elong	14587 Mar 25 15:53	15° $\text{Y}$ 15'45	0°16'57	inferior conj	14588 Mar 07 15:58	28° $\text{H}$ 33'53	-1°32'23
asc. node	14587 Mar 26 12:34	14° $\text{Y}$ 22'12		minimum elong	14588 Mar 07 19:12	28° $\text{H}$ 26'23	1°30'56
morning rise	14587 Apr 01 05:42	9° $\text{Y}$ 57'06		asc. node	14588 Mar 12 10:01	24° $\text{H}$ 41'38	
direct	14587 Apr 03 17:40	9° $\text{Y}$ 25'47		morning rise	14588 Mar 14 20:35	23° $\text{H}$ 31'24	
morning max el	14587 Apr 10 02:59	12° $\text{Y}$ 42'31	17°48'31	direct	14588 Mar 17 01:36	23° $\text{H}$ 09'45	
	14587 Apr 22 04:34	0° $\text{B}$		morning max el	14588 Mar 23 20:17	26° $\text{H}$ 35'10	17°48'23
morning set	14587 Apr 26 22:17	7° $\text{B}$ 59'33			14588 Mar 26 19:47	0° $\text{Y}$	
desc. node	14587 Apr 28 07:58	10° $\text{B}$ 21'59		morning set	14588 Apr 08 15:09	20° $\text{Y}$ 59'13	
					14588 Apr 13 17:23	0° $\text{B}$	
superior conj	14587 May 10 01:09	29° $\text{B}$ 46'09	-1°23'38	desc. node	14588 Apr 14 04:35	0° $\text{B}$ 49'06	
minimum elong	14587 May 09 17:07	29° $\text{B}$ 13'41	1°23'30				
	14587 May 10 04:35	0° $\text{II}$		superior conj	14588 Apr 19 23:25	10° $\text{B}$ 46'26	-0°44'57
max. Earth dist.	14587 May 15 07:40	8° $\text{II}$ 11'31	1.45112 AU	minimum elong	14588 Apr 19 19:10	10° $\text{B}$ 28'28	0°44'53
evening rise	14587 May 25 16:07	24° $\text{II}$ 16'49		max. Earth dist.	14588 Apr 27 00:10	22° $\text{B}$ 23'59	1.43727 AU
	14587 May 29 10:16	0° $\text{B}$			14588 May 01 18:29	0° $\text{II}$	
	14587 Jun 19 13:35	0° $\text{Q}$		evening rise	14588 May 04 07:04	3° $\text{II}$ 56'56	
asc. node	14587 Jun 22 10:15	3° $\text{Q}$ 08'56			14588 May 21 19:53	0° $\text{B}$	
evening max el	14587 Jun 22 12:07	3° $\text{Q}$ 13'38	20°16'01	evening max el	14588 Jun 04 09:32	17° $\text{B}$ 04'53	21°26'25
retrograde	14587 Jun 30 08:05	7° $\text{Q}$ 42'00		asc. node	14588 Jun 08 07:14	20° $\text{B}$ 25'15	
evening set	14587 Jul 04 08:30	6° $\text{Q}$ 09'31		retrograde	14588 Jun 13 06:48	22° $\text{B}$ 15'44	
inferior conj	14587 Jul 09 15:00	0° $\text{Q}$ 06'20	3°09'58	evening set	14588 Jun 17 17:56	20° $\text{B}$ 26'26	
minimum elong	14587 Jul 09 15:23	0° $\text{Q}$ 05'01	3°09'00	inferior conj	14588 Jun 22 23:42	14° $\text{B}$ 12'12	3°08'34
	14587 Jul 09 16:51	30° $\text{R}$ $\text{B}$		minimum elong	14588 Jun 22 23:07	14° $\text{B}$ 14'14	3°07'31
min. Earth dist.	14587 Jul 10 10:32	28° $\text{B}$ 59'37	0.68229 AU	min. Earth dist.	14588 Jun 23 05:46	13° $\text{B}$ 51'02	0.68864 AU
morning rise	14587 Jul 14 21:57	23° $\text{B}$ 43'50		morning rise	14588 Jun 28 04:06	7° $\text{B}$ 54'54	
direct	14587 Jul 20 11:22	21° $\text{B}$ 17'27		direct	14588 Jul 03 05:05	5° $\text{B}$ 44'15	
desc. node	14587 Jul 25 07:20	22° $\text{B}$ 46'07		desc. node	14588 Jul 11 04:37	9° $\text{B}$ 43'16	
morning max el	14587 Jul 31 19:45	28° $\text{B}$ 05'02	24°20'42	morning max el	14588 Jul 13 07:12	11° $\text{B}$ 42'44	22°51'14
	14587 Aug 02 15:27	0° $\text{Q}$			14588 Jul 27 21:09	0° $\text{Q}$	
	14587 Aug 24 16:06	0° $\text{P}$		morning set	14588 Aug 16 09:34	29° $\text{Q}$ 50'35	
morning set	14587 Sep 05 08:16	19° $\text{P}$ 07'53			14588 Aug 16 11:52	0° $\text{P}$	
max. Earth dist.	14587 Sep 08 23:22	25° $\text{P}$ 32'00	1.37933 AU	max. Earth dist.	14588 Aug 20 22:34	7° $\text{P}$ 26'53	1.40308 AU
	14587 Sep 11 10:20	0° $\text{A}$					
superior conj	14587 Sep 16 04:03	8° $\text{A}$ 54'51	-0°21'05	superior conj	14588 Aug 28 18:28	21° $\text{P}$ 14'38	-0°56'41
minimum elong	14587 Sep 16 05:29	9° $\text{A}$ 01'44	0°20'46	minimum elong	14588 Aug 28 22:47	21° $\text{P}$ 34'18	0°56'15
asc. node	14587 Sep 18 11:43	13° $\text{A}$ 24'43			14588 Sep 02 12:01	0° $\text{A}$	
evening rise	14587 Sep 24 19:49	25° $\text{A}$ 58'11		asc. node	14588 Sep 04 08:16	3° $\text{A}$ 28'46	
	14587 Sep 26 20:46	0° $\text{M}$		evening rise	14588 Sep 07 13:43	9° $\text{A}$ 36'58	
evening max el	14587 Oct 11 09:51	23° $\text{M}$ 09'35	19°10'45		14588 Sep 19 04:23	0° $\text{M}$	
retrograde	14587 Oct 20 13:02	27° $\text{M}$ 44'40		evening max el	14588 Sep 23 12:37	5° $\text{M}$ 21'12	18°28'02
desc. node	14587 Oct 21 03:33	27° $\text{M}$ 43'31		retrograde	14588 Oct 01 07:51	9° $\text{M}$ 18'16	
evening set	14587 Oct 22 09:52	27° $\text{M}$ 33'58		evening set	14588 Oct 03 07:34	9° $\text{M}$ 03'36	
inferior conj	14587 Oct 30 21:39	23° $\text{M}$ 21'54	-3°03'47	desc. node	14588 Oct 07 00:59	7° $\text{M}$ 26'07	
minimum elong	14587 Oct 30 13:57	23° $\text{M}$ 34'52	3°00'11	inferior conj	14588 Oct 11 02:25	4° $\text{M}$ 31'06	-1°17'43
min. Earth dist.	14587 Nov 02 14:49	21° $\text{M}$ 32'31	0.55989 AU	minimum elong	14588 Oct 10 23:22	4° $\text{M}$ 37'06	1°15'59
morning rise	14587 Nov 07 15:31	18° $\text{M}$ 46'16		min. Earth dist.	14588 Oct 14 08:01	1° $\text{M}$ 59'05	0.57854 AU
direct	14587 Nov 13 04:22	17° $\text{M}$ 35'44			14588 Oct 17 05:31	30° $\text{R}$ $\text{A}$	
morning max el	14587 Nov 27 06:15	24° $\text{M}$ 44'45	25°43'42	morning rise	14588 Oct 18 11:41	29° $\text{A}$ 17'44	
	14587 Dec 02 02:50	0° $\text{J}$		direct	14588 Oct 24 15:48	27° $\text{A}$ 40'18	
asc. node	14587 Dec 15 12:46	20° $\text{J}$ 17'02			14588 Nov 01 07:07	0° $\text{M}$	
	14587 Dec 20 14:28	0° $\text{B}$		morning max el	14588 Nov 07 22:57	5° $\text{M}$ 13'44	27°04'47
morning set	14587 Dec 24 18:42	8° $\text{B}$ 43'29			14588 Nov 26 04:08	0° $\text{J}$	
				asc. node	14588 Dec 01 09:46	9° $\text{J}$ 29'32	
superior conj	14587 Dec 31 12:43	23° $\text{B}$ 35'58	1°37'55	morning set	14588 Dec 08 03:55	23° $\text{J}$ 12'25	
minimum elong	14587 Dec 31 12:52	23° $\text{B}$ 36'49	1°38'54		14588 Dec 11 06:52	0° $\text{B}$	
max. Earth dist.	14588 Jan 01 20:31	26° $\text{B}$ 31'57	1.31675 AU	superior conj	14588 Dec 15 00:09	8° $\text{B}$ 17'11	1°35'51
	14588 Jan 03 10:25	0° $\approx$		minimum elong	14588 Dec 14 23:15	8° $\text{B}$ 12'15	1°36'50

max. Earth dist.	14588 Dec 15 04:05	8°  39'13	1.31161 AU	morning set	14589 Nov 22 09:06	7°  26'51	
evening rise	14588 Dec 21 19:38	23°  16'27		max. Earth dist.	14589 Nov 28 11:44	20°  43'08	1.31180 AU
	14588 Dec 25 01:09	0°  ≈					
desc. node	14589 Jan 02 23:10	16°  ≈39'14		superior conj	14589 Nov 29 11:25	22°  27'55'04	1°27'52
	14589 Jan 11 15:44	0°  ✕		minimum elong	14589 Nov 29 09:42	22°  27'45'24	1°28'42
evening max el	14589 Jan 21 05:46	11°  ✕11'17	26°59'29		14589 Dec 02 15:38	0°  ✕	
retrograde	14589 Feb 04 05:36	18°  ✕25'25		evening rise	14589 Dec 06 04:05	7°  ✕43'18	
evening set	14589 Feb 10 21:43	16°  ✕31'14			14589 Dec 17 13:15	0°  ≈	
min. Earth dist.	14589 Feb 14 19:56	13°  ✕50'55	0.59688 AU	desc. node	14589 Dec 20 20:03	5°  ≈25'48	
inferior conj	14589 Feb 18 00:52	11°  ✕15'30	-2°57'02	evening max el	14590 Jan 03 02:10	22°  ≈20'43	25°53'21
minimum elong	14589 Feb 18 07:24	11°  ✕02'14	2°54'10	retrograde	14590 Jan 17 00:37	29°  ≈23'21	
morning rise	14589 Feb 25 20:26	6°  ✕33'19		evening set	14590 Jan 23 03:16	27°  ≈56'04	
asc. node	14589 Feb 27 07:30	6°  ✕19'01		min. Earth dist.	14590 Jan 27 15:11	25°  ≈18'13	0.57568 AU
direct	14589 Feb 27 21:01	6°  ✕17'48		inferior conj	14590 Jan 30 14:38	23°  ≈12'59	-4°22'30
morning max el	14589 Mar 07 10:02	10°  ✕02'56	18°07'04	minimum elong	14590 Jan 30 23:35	22°  ≈57'14	4°19'10
	14589 Mar 20 11:21	0°  ✕		morning rise	14590 Feb 07 22:51	18°  ≈52'22	
morning set	14589 Mar 23 00:24	4°  ✕43'22		direct	14590 Feb 09 23:44	18°  ≈39'15	
desc. node	14589 Apr 01 01:09	21°  ✕21'44		asc. node	14590 Feb 14 04:58	19°  ≈38'55	
				morning max el	14590 Feb 18 16:15	22°  ≈54'36	18°46'13
superior conj	14589 Apr 01 21:00	22°  ✕50'30	-0°06'43		14590 Feb 24 07:37	0°  ✕	
minimum elong	14589 Apr 01 20:26	22°  ✕48'00	0°06'56	morning set	14590 Mar 06 21:02	18°  ✕57'28	
behind sun begin	14589 Apr 01 13:27	22°  ✕16'46			14590 Mar 12 13:12	0°  ✕	
behind sun end	14589 Apr 02 03:26	23°  ✕19'09					
	14589 Apr 05 22:56	0°  ✕		superior conj	14590 Mar 15 14:07	5°  ✕47'24	0°27'01
max. Earth dist.	14589 Apr 09 11:44	6°  ✕00'27	1.41827 AU	minimum elong	14590 Mar 15 15:51	5°  ✕55'30	0°26'43
evening rise	14589 Apr 14 14:07	14°  ✕22'56		desc. node	14590 Mar 18 21:42	11°  ✕56'27	
	14589 Apr 24 15:35	0°  ✕		max. Earth dist.	14590 Mar 22 19:03	18°  ✕54'38	1.39628 AU
	14589 May 17 04:07	0°  ✕		evening rise	14590 Mar 26 18:18	25°  ✕44'53	
evening max el	14589 May 18 02:13	0°  ✕56'29	22°45'10		14590 Mar 29 07:29	0°  ✕	
asc. node	14589 May 26 04:21	6°  ✕34'21			14590 Apr 18 07:31	0°  ✕	
retrograde	14589 May 28 03:47	6°  ✕51'48		evening max el	14590 Apr 30 16:24	14°  ✕50'02	24°06'25
evening set	14589 Jun 02 02:09	4°  ✕47'14		retrograde	14590 May 11 21:37	21°  ✕24'43	
	14589 Jun 06 05:47	30°  ✕✕		asc. node	14590 May 13 01:33	21°  ✕18'46	
inferior conj	14589 Jun 07 09:31	28°  ✕24'05	2°56'32	evening set	14590 May 17 07:34	19°  ✕07'16	
minimum elong	14589 Jun 07 08:06	28°  ✕29'01	2°55'19	min. Earth dist.	14590 May 21 22:55	13°  ✕44'49	0.68697 AU
min. Earth dist.	14589 Jun 07 02:37	28°  ✕48'06	0.69017 AU	inferior conj	14590 May 22 18:31	12°  ✕38'19	2°34'12
morning rise	14589 Jun 12 13:55	22°  ✕13'41		minimum elong	14590 May 22 16:32	12°  ✕45'04	2°32'48
direct	14589 Jun 17 02:21	20°  ✕21'58		morning rise	14590 May 28 01:33	6°  ✕36'07	
morning max el	14589 Jun 25 22:13	25°  ✕28'56	21°25'36	direct	14590 Jun 01 01:48	5°  ✕04'38	
desc. node	14589 Jun 28 01:51	27°  ✕45'48		morning max el	14590 Jun 08 19:30	9°  ✕25'44	20°10'20
	14589 Jun 30 00:07	0°  ✕		desc. node	14590 Jun 14 22:58	16°  ✕36'20	
	14589 Jul 21 07:23	0°  ✕			14590 Jun 24 11:57	0°  ✕	
morning set	14589 Jul 27 10:22	9°  ✕29'45		morning set	14590 Jul 06 16:18	18°  ✕21'56	
max. Earth dist.	14589 Aug 03 02:26	20°  ✕12'34	1.42512 AU		14590 Jul 14 03:29	0°  ✕	
	14589 Aug 08 23:10	0°  ✕		max. Earth dist.	14590 Jul 16 13:04	3°  ✕48'23	1.44296 AU
superior conj	14589 Aug 10 12:53	2°  ✕41'21	-1°31'20	superior conj	14590 Jul 22 08:01	13°  ✕09'02	-1°59'17
minimum elong	14589 Aug 10 19:51	3°  ✕11'18	1°31'03	minimum elong	14590 Jul 22 15:00	13°  ✕09'37'35	1°59'36
evening rise	14589 Aug 21 19:18	22°  ✕41'50			14590 Aug 01 09:36	0°  ✕	
asc. node	14589 Aug 22 04:50	23°  ✕44'58		evening rise	14590 Aug 04 07:40	5°  ✕00'36	
	14589 Aug 25 20:30	0°  ✕		asc. node	14590 Aug 09 01:25	13°  ✕09'03	
evening max el	14589 Sep 06 23:10	18°  ✕10'34	18°06'05		14590 Aug 20 04:42	0°  ✕	
retrograde	14589 Sep 13 20:42	21°  ✕42'28		evening max el	14590 Aug 21 13:22	1°  ✕27'10	18°03'21
evening set	14589 Sep 16 03:27	21°  ✕19'36		retrograde	14590 Aug 27 23:45	4°  ✕47'54	
inferior conj	14589 Sep 23 04:25	16°  ✕26'38	0°14'01	evening set	14590 Aug 30 14:48	4°  ✕13'15	
minimum elong	14589 Sep 23 04:52	16°  ✕25'34	0°14'03		14590 Sep 05 01:33	30°  ✕✕	
transit middle	14589 Sep 23 04:52	16°  ✕25'34	0°14'03	inferior conj	14590 Sep 06 00:15	29°  ✕01'28	1°24'53
transit begin	14589 Sep 23 03:13	16°  ✕29'22		minimum elong	14590 Sep 06 02:23	28°  ✕05'55'54	1°24'03
transit end	14589 Sep 23 06:32	16°  ✕21'46		min. Earth dist.	14590 Sep 08 21:05	26°  ✕02'59	0.62363 AU
desc. node	14589 Sep 23 22:28	15°  ✕45'04		desc. node	14590 Sep 10 20:01	24°  ✕12'49	
min. Earth dist.	14589 Sep 26 09:50	13°  ✕30'37	0.60075 AU	morning rise	14590 Sep 12 11:36	22°  ✕05'40'04	
morning rise	14589 Sep 30 03:03	10°  ✕41'19		direct	14590 Sep 19 04:00	20°  ✕29'54	
direct	14589 Oct 06 16:33	8°  ✕37'36		morning max el	14590 Oct 03 06:01	28°  ✕09'29'18	27°56'45
morning max el	14589 Oct 20 23:27	16°  ✕28'31	27°50'20		14590 Oct 04 17:17	0°  ✕	
	14589 Nov 01 03:06	0°  ✕			14590 Oct 25 23:42	0°  ✕	
asc. node	14589 Nov 18 06:40	29°  ✕10'44'49		asc. node	14590 Nov 05 03:26	18°  ✕15'55'25	
	14589 Nov 18 17:48	0°  ✕		morning set	14590 Nov 06 08:04	21°  ✕10'20'31	

	14590 Nov 10 11:08	0°♊		asc. node	14591 Oct 23 00:08	8°♎56'21	
max. Earth dist.	14590 Nov 11 15:37	2°♊33'39	1.31748 AU	max. Earth dist.	14591 Oct 25 12:19	14°♎04'59	1.32869 AU
superior conj	14590 Nov 13 20:36	7°♊23'09	1°14'01	superior conj	14591 Oct 29 01:39	21°♎36'13	0°54'19
minimum elong	14590 Nov 13 18:21	7°♊10'50	1°14'37	minimum elong	14591 Oct 28 23:25	21°♎24'15	0°54'41
evening rise	14590 Nov 20 14:40	22°♊13'40			14591 Nov 01 22:51	0°♊	
	14590 Nov 24 07:09	0°♊		evening rise	14591 Nov 05 01:36	6°♊43'10	
desc. node	14590 Dec 07 17:03	23°♊21'07			14591 Nov 17 05:42	0°♊	
	14590 Dec 12 23:51	0°♊		desc. node	14591 Nov 24 14:08	10°♊06'39	
evening max el	14590 Dec 15 14:45	2°♊42'37	24°20'58	evening max el	14591 Nov 27 00:38	12°♊41'07	22°38'04
retrograde	14590 Dec 29 06:29	9°♊30'29		retrograde	14591 Dec 09 23:33	19°♊06'25	
evening set	14591 Jan 03 09:46	8°♊32'45		evening set	14591 Dec 13 19:18	18°♊34'29	
min. Earth dist.	14591 Jan 09 02:27	5°♊40'25	0.55817 AU	min. Earth dist.	14591 Dec 21 08:49	15°♊08'33	0.54718 AU
inferior conj	14591 Jan 11 07:24	4°♊19'05	-5°31'38	inferior conj	14591 Dec 22 06:08	14°♊38'27	-5°59'38
minimum elong	14591 Jan 11 14:46	4°♊07'45	5°29'31	minimum elong	14591 Dec 22 05:54	14°♊38'47	5°58'35
morning rise	14591 Jan 19 21:41	0°♊18'31		morning rise	14591 Dec 30 17:46	10°♊50'40	
direct	14591 Jan 22 07:11	0°♊03'23		direct	14592 Jan 02 21:30	10°♊27'56	
asc. node	14591 Feb 01 02:23	4°♊37'49		morning max el	14592 Jan 14 14:26	16°♊04'49	21°12'47
morning max el	14591 Feb 01 10:39	4°♊57'28	19°47'56	asc. node	14592 Jan 18 23:43	21°♊00'38	
	14591 Feb 17 07:30	0°♊			14592 Jan 24 23:36	0°♊	
morning set	14591 Feb 19 01:13	3°♊29'40		morning set	14592 Feb 03 10:06	18°♊11'46	
					14592 Feb 09 01:02	0°♊	
superior conj	14591 Feb 26 22:13	19°♊23'54	0°54'24	superior conj	14592 Feb 10 17:17	3°♊29'17	1°15'00
minimum elong	14591 Feb 27 00:49	19°♊36'50	0°54'18	minimum elong	14592 Feb 10 19:47	3°♊42'12	1°15'16
	14591 Mar 04 10:08	0°♊		max. Earth dist.	14592 Feb 15 11:27	13°♊06'49	1.35264 AU
max. Earth dist.	14591 Mar 05 01:29	1°♊11'35	1.37364 AU	evening rise	14592 Feb 19 12:07	20°♊52'08	
desc. node	14591 Mar 05 18:12	2°♊29'02		desc. node	14592 Feb 20 14:42	22°♊55'55	
evening rise	14591 Mar 08 18:40	7°♊57'29			14592 Feb 24 12:50	0°♊	
	14591 Mar 22 03:15	0°♊			14592 Mar 15 01:07	0°♊	
evening max el	14591 Apr 13 06:01	28°♊43'56	25°23'21	evening max el	14592 Mar 25 19:42	12°♊32'12	26°28'31
	14591 Apr 14 13:57	0°♊		retrograde	14592 Apr 07 19:29	19°♊54'30	
retrograde	14591 Apr 25 11:09	5°♊48'03		evening set	14592 Apr 14 03:16	17°♊22'29	
asc. node	14591 Apr 29 22:51	4°♊23'51		asc. node	14592 Apr 15 20:15	15°♊48'55	
evening set	14591 May 01 08:32	3°♊21'05		min. Earth dist.	14592 Apr 18 05:05	13°♊11'31	0.66689 AU
	14591 May 04 13:16	30°♊		inferior conj	14592 Apr 20 02:07	10°♊55'24	1°17'08
min. Earth dist.	14591 May 05 16:27	28°♊34'59	0.67912 AU	minimum elong	14592 Apr 20 00:22	11°♊00'44	1°15'55
inferior conj	14591 May 07 00:46	26°♊50'27	2°01'17	morning rise	14592 Apr 25 22:28	5°♊14'01	
minimum elong	14591 May 06 22:36	26°♊57'27	1°59'51	direct	14592 Apr 29 00:40	4°♊20'25	
morning rise	14591 May 12 13:05	20°♊57'52		morning max el	14592 May 05 11:44	7°♊45'45	18°24'42
direct	14591 May 16 01:52	19°♊46'12		desc. node	14592 May 18 16:47	25°♊52'35	
morning max el	14591 May 23 00:16	23°♊32'49	19°09'26		14592 May 21 07:51	0°♊	
	14591 May 28 12:05	0°♊		morning set	14592 May 25 20:08	7°♊07'59	
desc. node	14591 Jun 01 19:57	6°♊01'52			14592 Jun 09 09:23	0°♊	
greatest brilliancy	14591 Jun 04 22:09	10°♊34'56	-0.7m	superior conj	14592 Jun 10 13:49	1°♊50'58	-2°07'45
morning set	14591 Jun 15 20:56	27°♊16'40		minimum elong	14592 Jun 10 08:03	1°♊28'26	2°08'33
	14591 Jun 17 15:16	0°♊		max. Earth dist.	14592 Jun 11 01:39	2°♊37'08	1.45909 AU
max. Earth dist.	14591 Jun 29 05:47	18°♊02'50	1.45464 AU	evening rise	14592 Jun 26 11:03	26°♊41'32	
superior conj	14591 Jul 02 05:04	22°♊43'16	-2°13'16		14592 Jun 28 13:35	0°♊	
minimum elong	14591 Jul 02 06:58	22°♊50'45	2°14'14	greatest brilliancy	14592 Jul 05 19:53	11°♊20'47	-0.8m
	14591 Jul 06 19:06	0°♊		asc. node	14592 Jul 12 18:49	21°♊39'19	
evening rise	14591 Jul 16 21:47	16°♊22'05		evening max el	14592 Jul 18 15:12	28°♊47'11	18°51'39
	14591 Jul 25 06:35	0°♊			14592 Jul 19 22:48	0°♊	
asc. node	14591 Jul 26 22:04	2°♊36'12		retrograde	14592 Jul 25 07:45	2°♊26'46	
evening max el	14591 Aug 05 03:42	15°♊02'11	18°18'46	evening set	14592 Jul 28 16:32	1°♊21'28	
retrograde	14591 Aug 11 12:41	18°♊25'41			14592 Jul 30 09:45	30°♊	
evening set	14591 Aug 14 12:26	17°♊36'33		inferior conj	14592 Aug 03 05:41	25°♊38'17	2°47'49
inferior conj	14591 Aug 20 09:56	12°♊08'05	2°15'13	minimum elong	14592 Aug 03 07:33	25°♊32'25	2°46'48
minimum elong	14591 Aug 20 12:20	12°♊01'07	2°14'09	min. Earth dist.	14592 Aug 04 23:28	23°♊26'45	0.66267 AU
min. Earth dist.	14591 Aug 22 17:56	9°♊26'05	0.64479 AU	morning rise	14592 Aug 08 21:43	19°♊13'08	
morning rise	14591 Aug 26 10:45	5°♊48'02		desc. node	14592 Aug 14 15:02	16°♊35'29	
desc. node	14591 Aug 28 17:33	4°♊17'23		direct	14592 Aug 15 03:50	16°♊34'25	
direct	14591 Sep 02 00:09	3°♊12'02		morning max el	14592 Aug 28 03:44	24°♊17'18	26°28'47
morning max el	14591 Sep 15 16:17	11°♊09'36	27°27'12		14592 Sep 02 07:11	0°♊	
	14591 Sep 30 14:58	0°♊			14592 Sep 23 00:48	0°♊	
	14591 Oct 18 10:52	0°♊		morning set	14592 Oct 03 00:48	17°♊41'41	
morning set	14591 Oct 20 22:21	4°♊48'01					



max. Earth dist.	14592 Oct 06 23:15	25°♌16'24	1.34513 AU			14593 Sep 15 13:14	0°♌	
asc. node	14592 Oct 08 20:45	29°♌02'49		max. Earth dist.		14593 Sep 19 01:06	6°♌21'55	1.36597 AU
	14592 Oct 09 08:06	0°♌						
superior conj	14592 Oct 12 00:08	5°♌27'36	0°28'56	superior conj		14593 Sep 25 13:09	18°♌50'34	-0°01'37
minimum elong	14592 Oct 11 22:37	5°♌19'45	0°29'10	minimum elong		14593 Sep 25 13:14	18°♌50'58	0°01'22
evening rise	14592 Oct 19 10:56	21°♌06'20		behind sun begin		14593 Sep 25 06:49	18°♌19'16	
	14592 Oct 23 19:19	0°♌		behind sun end		14593 Sep 25 19:39	19°♌22'44	
evening max el	14592 Nov 07 17:30	22°♌54'05	21°02'25	asc. node		14593 Sep 25 17:20	19°♌11'17	
desc. node	14592 Nov 10 11:20	25°♌18'25				14593 Oct 01 02:04	0°♌	
retrograde	14592 Nov 19 10:12	28°♌42'34		evening rise		14593 Oct 03 16:29	5°♌17'50	
evening set	14592 Nov 22 00:17	28°♌26'44				14593 Oct 17 16:25	0°♌	
inferior conj	14592 Nov 30 21:11	24°♌33'57	-5°28'03	evening max el		14593 Oct 21 00:13	3°♌50'32	19°45'14
minimum elong	14592 Nov 30 12:47	24°♌45'51	5°25'31	desc. node		14593 Oct 28 08:39	8°♌30'32	
min. Earth dist.	14592 Dec 01 14:29	24°♌09'23	0.54485 AU	retrograde		14593 Oct 31 01:43	8°♌51'50	
morning rise	14592 Dec 09 01:38	20°♌42'03		evening set		14593 Nov 02 00:31	8°♌41'22	
direct	14592 Dec 13 04:40	20°♌05'29		inferior conj		14593 Nov 10 19:16	4°♌39'35	-4°04'20
morning max el	14592 Dec 26 05:18	26°♌23'54	22°56'14	minimum elong		14593 Nov 10 09:34	4°♌54'39	4°00'21
	14592 Dec 29 15:02	0°♌		min. Earth dist.		14593 Nov 12 22:47	3°♌19'33	0.55197 AU
asc. node	14593 Jan 04 20:57	8°♌29'35		morning rise		14593 Nov 18 16:59	0°♌23'34	
	14593 Jan 16 11:53	0°♌				14593 Nov 19 22:06	30°♌	
morning set	14593 Jan 17 21:29	2°♌57'22		direct		14593 Nov 23 18:40	29°♌26'43	
						14593 Nov 27 14:23	0°♌	
superior conj	14593 Jan 24 20:05	17°♌54'30	1°28'54	morning max el		14593 Dec 07 14:35	6°♌20'11	24°45'26
minimum elong	14593 Jan 24 21:52	18°♌04'03	1°29'32	asc. node		14593 Dec 22 18:06	26°♌48'28	
max. Earth dist.	14593 Jan 28 04:10	24°♌57'55	1.33505 AU			14593 Dec 24 13:18	0°♌	
	14593 Jan 30 15:01	0°♌		morning set		14594 Jan 02 09:23	17°♌40'13	
evening rise	14593 Feb 01 19:11	4°♌20'12				14594 Jan 08 00:30	0°♌	
desc. node	14593 Feb 06 11:15	13°♌13'07		superior conj		14594 Jan 09 03:55	2°♌30'57	1°36'24
	14593 Feb 16 07:19	0°♌		minimum elong		14594 Jan 09 04:42	2°♌35'13	1°37'18
evening max el	14593 Mar 08 09:07	26°♌06'16	27°14'35	max. Earth dist.		14594 Jan 11 04:21	6°♌55'35	1.32199 AU
	14593 Mar 12 22:34	0°♌		evening rise		14594 Jan 16 12:35	18°♌12'56	
retrograde	14593 Mar 21 21:54	3°♌36'02				14594 Jan 22 13:21	0°♌	
evening set	14593 Mar 28 13:49	1°♌05'03		desc. node		14594 Jan 24 07:51	3°♌14'52	
	14593 Mar 29 21:15	30°♌				14594 Feb 10 15:44	0°♌	
min. Earth dist.	14593 Apr 01 10:54	27°♌26'40	0.65068 AU	evening max el		14594 Feb 18 20:55	9°♌14'21	27°34'30
asc. node	14593 Apr 02 17:41	26°♌02'05		retrograde		14594 Mar 04 17:22	16°♌42'04	
inferior conj	14593 Apr 03 20:14	24°♌48'00	0°20'58	evening set		14594 Mar 11 13:41	14°♌19'34	
minimum elong	14593 Apr 03 19:39	24°♌49'37	0°20'24	min. Earth dist.		14594 Mar 15 08:06	11°♌09'28	0.63123 AU
morning rise	14593 Apr 10 03:18	19°♌19'43		inferior conj		14594 Mar 18 04:11	8°♌20'16	-0°47'38
direct	14593 Apr 12 20:00	18°♌41'22		minimum elong		14594 Mar 18 05:44	8°♌16'23	0°47'01
morning max el	14593 Apr 19 03:47	21°♌58'01	17°56'49	asc. node		14594 Mar 20 15:09	5°♌59'43	
	14593 Apr 25 12:41	0°♌		morning rise		14594 Mar 25 00:25	3°♌07'27	
desc. node	14593 May 05 13:31	16°♌01'42		direct		14594 Mar 27 09:03	2°♌40'49	
morning set	14593 May 06 23:05	18°♌20'05		morning max el		14594 Apr 02 21:31	6°♌00'16	17°46'15
	14593 May 14 02:07	0°♌				14594 Apr 18 17:17	0°♌	
superior conj	14593 May 21 03:28	11°♌18'21	-1°43'29	morning set		14594 Apr 19 03:46	0°♌45'16	
minimum elong	14593 May 20 18:31	10°♌42'53	1°43'34	desc. node		14594 Apr 22 10:09	6°♌23'12	
max. Earth dist.	14593 May 24 21:38	17°♌13'38	1.45604 AU	superior conj		14594 May 01 11:57	21°♌39'54	-1°07'33
	14593 Jun 02 02:48	0°♌		minimum elong		14594 May 01 05:22	21°♌12'46	1°07'24
evening rise	14593 Jun 06 04:16	6°♌14'59				14594 May 06 15:13	0°♌	
greatest brilliancy	14593 Jun 20 05:01	27°♌26'12	-0.6m	max. Earth dist.		14594 May 07 15:33	1°♌37'14	1.44591 AU
	14593 Jun 21 23:29	0°♌		evening rise		14594 May 16 15:10	15°♌39'58	
asc. node	14593 Jun 29 15:39	10°♌10'11				14594 May 26 03:03	0°♌	
evening max el	14593 Jul 01 21:48	12°♌36'56	19°40'57	evening max el		14594 Jun 14 22:34	26°♌27'58	20°44'44
retrograde	14593 Jul 09 05:55	16°♌44'51		asc. node		14594 Jun 16 12:36	27°♌57'28	
evening set	14593 Jul 13 00:21	15°♌22'29				14594 Jun 19 06:40	0°♌	
inferior conj	14593 Jul 18 08:26	9°♌26'12	3°05'33	retrograde		14594 Jun 23 04:54	1°♌13'54	
minimum elong	14593 Jul 18 09:24	9°♌22'59	3°04'36			14594 Jun 26 19:55	30°♌	
min. Earth dist.	14593 Jul 19 12:01	7°♌54'05	0.67642 AU	evening set		14594 Jun 27 09:42	29°♌34'24	
morning rise	14593 Jul 23 17:59	3°♌01'26		inferior conj		14594 Jul 02 15:36	23°♌26'26	3°10'42
direct	14593 Jul 29 13:58	0°♌28'21		minimum elong		14594 Jul 02 15:34	23°♌26'33	3°09'44
desc. node	14593 Aug 01 12:29	1°♌01'13		min. Earth dist.		14594 Jul 03 05:26	22°♌38'38	0.68554 AU
morning max el	14593 Aug 10 14:38	7°♌40'56	25°10'39	morning rise		14594 Jul 07 21:08	17°♌05'43	
	14593 Aug 28 01:41	0°♌		direct		14594 Jul 13 05:23	14°♌45'12	
morning set	14593 Sep 15 11:37	29°♌52'47		desc. node		14594 Jul 19 09:50	17°♌10'09	

morning max el	14594 Jul 24 01:09	21°☿13'11	23°42'38	morning max el	14595 Jul 06 13:33	4°☿53'04	22°13'53
	14594 Jul 31 15:01	0°♊			14595 Jul 25 19:28	0°♊	
	14594 Aug 21 07:13	0°♋		morning set	14595 Aug 08 17:05	21°♊25'05	
morning set	14594 Aug 28 02:21	11°♋10'33			14595 Aug 13 22:28	0°♋	
max. Earth dist.	14594 Aug 31 23:03	17°♋50'03	1.38941 AU	max. Earth dist.	14595 Aug 13 23:56	0°♋06'07	1.41282 AU
	14594 Sep 07 16:25	0°♌					
superior conj	14594 Sep 08 13:05	1°♌36'40	-0°36'01	superior conj	14595 Aug 21 19:33	13°♋34'59	-1°11'46
minimum elong	14594 Sep 08 15:41	1°♌48'53	0°35'38	minimum elong	14595 Aug 22 01:07	13°♋59'46	1°11'21
asc. node	14594 Sep 12 13:52	9°♌18'00		asc. node	14595 Aug 30 10:26	29°♋19'03	
evening rise	14594 Sep 17 15:36	19°♌11'06			14595 Aug 30 19:13	0°♌	
	14594 Sep 23 07:33	0°♍		evening rise	14595 Sep 01 04:47	2°♌36'29	
evening max el	14594 Oct 03 20:48	15°♍37'16	18°50'02	evening max el	14595 Sep 17 03:26	28°♌06'09	18°16'18
retrograde	14594 Oct 12 09:04	19°♍54'18			14595 Sep 19 08:32	0°♍	
evening set	14594 Oct 14 06:26	19°♍42'26		retrograde	14595 Sep 24 11:54	1°♍50'37	
desc. node	14594 Oct 15 06:04	19°♍27'17		evening set	14595 Sep 26 14:31	1°♍32'49	
inferior conj	14594 Oct 22 11:32	15°♍22'18	-2°18'00		14595 Sep 29 22:21	30°♋♌	
minimum elong	14594 Oct 22 05:48	15°♍32'35	2°15'05	desc. node	14595 Oct 02 03:34	28°♌25'09	
min. Earth dist.	14594 Oct 25 11:56	13°♍12'50	0.56720 AU	inferior conj	14595 Oct 04 01:34	26°♌51'13	-0°36'26
morning rise	14594 Oct 30 02:03	10°♍30'41		minimum elong	14595 Oct 04 00:14	26°♌54'01	0°35'32
direct	14594 Nov 04 22:21	9°♍08'37		min. Earth dist.	14595 Oct 07 08:18	24°♌06'47	0.58775 AU
morning max el	14594 Nov 19 02:54	16°♍28'51	26°21'47	morning rise	14595 Oct 11 06:32	21°♌23'35	
	14594 Nov 30 04:02	0°♎		direct	14595 Oct 17 15:32	19°♌34'46	
asc. node	14594 Dec 09 15:08	15°♎44'36		morning max el	14595 Oct 31 22:48	27°♌15'31	27°28'54
	14594 Dec 16 18:40	0°♏			14595 Nov 03 14:12	0°♍	
morning set	14594 Dec 17 20:08	2°♏15'52			14595 Nov 23 19:08	0°♎	
				asc. node	14595 Nov 26 12:05	5°♎07'32	
superior conj	14594 Dec 24 14:38	17°♏12'28	1°37'46	morning set	14595 Dec 02 03:52	16°♎39'00	
minimum elong	14594 Dec 24 14:21	17°♏10'48	1°38'46		14595 Dec 08 06:05	0°♏	
max. Earth dist.	14594 Dec 25 10:16	19°♏01'48	1.31397 AU	superior conj	14595 Dec 09 02:14	1°♏52'40	1°33'10
	14594 Dec 30 10:34	0°♐		minimum elong	14595 Dec 09 00:57	1°♏45'32	1°34'07
evening rise	14594 Dec 31 13:41	2°♐23'44		max. Earth dist.	14595 Dec 08 18:30	1°♏09'25	1.31113 AU
desc. node	14595 Jan 11 04:36	22°♐54'50		evening rise	14595 Dec 15 20:01	16°♏45'51	
	14595 Jan 15 10:07	0°♑			14595 Dec 22 07:42	0°♐	
evening max el	14595 Feb 01 04:55	21°♑44'12	27°22'18	desc. node	14595 Dec 29 01:26	12°♐03'52	
retrograde	14595 Feb 15 04:23	29°♑03'24			14596 Jan 10 22:59	0°♑	
evening set	14595 Feb 21 23:59	26°♑57'05		evening max el	14596 Jan 14 06:10	3°♑23'58	26°35'09
min. Earth dist.	14595 Feb 25 19:18	24°♑08'32	0.60969 AU	retrograde	14596 Jan 28 05:25	10°♑32'27	
inferior conj	14595 Feb 28 22:36	21°♑23'41	-2°07'30	evening set	14596 Feb 03 17:07	8°♑49'14	
minimum elong	14595 Mar 01 03:12	21°♑13'33	2°05'24	min. Earth dist.	14596 Feb 07 19:50	6°♑11'53	0.58769 AU
asc. node	14595 Mar 07 12:37	16°♑47'13		inferior conj	14596 Feb 10 23:44	3°♑47'38	-3°33'55
morning rise	14595 Mar 08 09:36	16°♑29'09		minimum elong	14596 Feb 11 07:34	3°♑32'43	3°30'41
direct	14595 Mar 10 12:16	16°♑10'33			14596 Feb 16 20:21	30°♋♐	
morning max el	14595 Mar 17 13:42	19°♑43'19	17°53'50	morning rise	14596 Feb 19 01:11	29°♐14'22	
	14595 Mar 25 03:54	0°♒		direct	14596 Feb 21 01:20	29°♐00'12	
morning set	14595 Apr 02 04:18	14°♒05'52		asc. node	14596 Feb 22 10:05	29°♐07'01	
desc. node	14595 Apr 09 06:44	26°♒52'51			14596 Feb 25 01:38	0°♑	
	14595 Apr 11 01:15	0°♓		morning max el	14596 Feb 29 00:41	2°♑56'43	18°21'03
				morning set	14596 Mar 15 18:57	28°♑04'37	
superior conj	14595 Apr 12 20:22	3°♓07'30	-0°28'20		14596 Mar 16 19:13	0°♒	
minimum elong	14595 Apr 12 17:49	2°♓56'28	0°28'24	superior conj	14596 Mar 25 02:50	15°♒35'39	0°08'19
max. Earth dist.	14595 Apr 20 06:00	15°♓35'20	1.42976 AU	minimum elong	14596 Mar 25 03:25	15°♒38'21	0°08'03
evening rise	14595 Apr 26 11:52	25°♓37'08		behind sun begin	14596 Mar 24 21:03	15°♒09'17	
	14595 Apr 29 07:14	0°♔		behind sun end	14596 Mar 25 09:47	16°♒07'22	
	14595 May 20 00:39	0°☿		desc. node	14596 Mar 26 03:18	17°♒26'49	
evening max el	14595 May 28 17:51	10°☿19'20	21°59'21	max. Earth dist.	14596 Apr 01 16:07	28°♒56'19	1.40920 AU
asc. node	14595 Jun 03 09:40	14°☿47'04			14596 Apr 02 07:05	0°♓	
retrograde	14595 Jun 07 02:54	15°☿48'45		evening rise	14596 Apr 06 03:46	6°♓26'55	
evening set	14595 Jun 11 18:48	13°☿52'47			14596 Apr 21 10:13	0°♔	
inferior conj	14595 Jun 17 01:00	7°☿34'45	3°04'43	evening max el	14596 May 10 09:15	24°♔11'56	23°19'50
minimum elong	14595 Jun 17 00:02	7°☿38'06	3°03'37		14596 May 18 12:59	0°☿	
min. Earth dist.	14595 Jun 17 01:33	7°☿32'47	0.68989 AU	asc. node	14596 May 20 06:48	0°☿22'31	
morning rise	14595 Jun 22 05:05	1°☿20'19		retrograde	14596 May 20 22:35	0°☿24'27	
	14595 Jun 24 03:52	30°♈♔			14596 May 23 05:02	30°♈♔	
direct	14595 Jun 27 00:50	29°♔17'13		evening set	14596 May 26 02:00	28°♔13'50	
	14595 Jun 30 02:49	0°☿		inferior conj	14596 May 31 10:40	21°♔47'56	2°48'20
desc. node	14595 Jul 06 07:07	4°☿37'04					

minimum elong	14596 May 31 08:59	21° $\Pi$ 53'47	2°47'01	morning rise	14597 May 21 03:42	0° $\Pi$ 03'28	
min. Earth dist.	14596 May 30 22:18	22° $\Pi$ 30'35	0.68941 AU		14597 May 21 05:38	30° $\mathbb{R}$ $\mathcal{B}$	
morning rise	14596 Jun 05 15:54	15° $\Pi$ 41'09		direct	14597 May 24 22:53	28° $\mathcal{B}$ 40'47	
direct	14596 Jun 09 23:07	13° $\Pi$ 58'03			14597 May 28 22:25	0° $\Pi$	
morning max el	14596 Jun 18 07:02	18° $\Pi$ 43'53	20°52'07	morning max el	14597 Jun 01 07:35	2° $\Pi$ 45'48	19°42'33
desc. node	14596 Jun 22 04:17	23° $\Pi$ 01'49		desc. node	14597 Jun 09 01:18	12° $\Pi$ 08'23	
	14596 Jun 27 13:56	0° $\mathfrak{E}$		greatest brilliancy	14597 Jun 14 03:41	19° $\Pi$ 22'55	-0.6m
	14596 Jul 17 22:06	0° $\mathcal{Q}$			14597 Jun 21 06:40	0° $\mathfrak{E}$	
morning set	14596 Jul 18 08:32	0° $\mathcal{Q}$ 40'29		morning set	14597 Jun 27 11:12	9° $\mathfrak{E}$ 26'10	
max. Earth dist.	14596 Jul 26 07:17	13° $\mathcal{Q}$ 16'28	1.43334 AU	max. Earth dist.	14597 Jul 08 20:34	27° $\mathfrak{E}$ 09'44	1.44873 AU
					14597 Jul 10 15:32	0° $\mathcal{Q}$	
superior conj	14596 Aug 02 04:17	24° $\mathcal{Q}$ 36'39	-1°44'25				
minimum elong	14596 Aug 02 11:46	25° $\mathcal{Q}$ 08'07	1°44'20	superior conj	14597 Jul 13 13:19	4° $\mathcal{Q}$ 38'52	-2°07'20
	14596 Aug 05 08:30	0° $\mathfrak{P}$		minimum elong	14597 Jul 13 18:49	5° $\mathcal{Q}$ 00'55	2°08'00
evening rise	14596 Aug 14 03:43	15° $\mathfrak{P}$ 23'27		evening rise	14597 Jul 27 07:08	27° $\mathcal{Q}$ 18'42	
asc. node	14596 Aug 16 07:01	19° $\mathfrak{P}$ 10'45			14597 Jul 28 21:26	0° $\mathfrak{P}$	
	14596 Aug 22 13:38	0° $\mathfrak{A}$		asc. node	14597 Aug 03 03:38	8° $\mathfrak{P}$ 48'06	
evening max el	14596 Aug 30 15:56	11° $\mathfrak{A}$ 07'38	18°02'35	evening max el	14597 Aug 14 06:28	24° $\mathfrak{P}$ 32'09	18°07'43
retrograde	14596 Sep 06 07:33	14° $\mathfrak{A}$ 33'23		retrograde	14597 Aug 20 15:19	27° $\mathfrak{P}$ 52'46	
evening set	14596 Sep 08 17:42	14° $\mathfrak{A}$ 05'54		evening set	14597 Aug 23 09:54	27° $\mathfrak{P}$ 12'24	
inferior conj	14596 Sep 15 11:38	9° $\mathfrak{A}$ 04'18	0°46'42	inferior conj	14597 Aug 29 13:50	21° $\mathfrak{P}$ 53'18	1°48'35
minimum elong	14596 Sep 15 13:01	9° $\mathfrak{A}$ 00'57	0°46'15	minimum elong	14597 Aug 29 16:12	21° $\mathfrak{P}$ 46'47	1°47'36
desc. node	14596 Sep 18 01:05	6° $\mathfrak{A}$ 35'06		min. Earth dist.	14597 Sep 01 05:33	18° $\mathfrak{P}$ 59'31	0.63288 AU
min. Earth dist.	14596 Sep 18 14:00	6° $\mathfrak{A}$ 04'52	0.61052 AU	morning rise	14597 Sep 04 20:29	15° $\mathfrak{P}$ 39'06	
morning rise	14596 Sep 22 05:27	3° $\mathfrak{A}$ 08'11		desc. node	14597 Sep 04 22:36	15° $\mathfrak{P}$ 35'08	
direct	14596 Sep 28 20:44	0° $\mathfrak{A}$ 55'12		direct	14597 Sep 11 12:08	13° $\mathfrak{P}$ 08'39	
morning max el	14596 Oct 13 02:22	8° $\mathfrak{A}$ 50'38	27°57'53	morning max el	14597 Sep 25 11:01	21° $\mathfrak{P}$ 09'44	27°48'18
	14596 Oct 29 09:34	0° $\mathfrak{M}$			14597 Oct 03 03:26	0° $\mathfrak{A}$	
asc. node	14596 Nov 12 08:56	24° $\mathfrak{M}$ 49'51			14597 Oct 22 12:22	0° $\mathfrak{M}$	
	14596 Nov 14 22:00	0° $\mathcal{X}$		morning set	14597 Oct 30 02:21	14° $\mathfrak{M}$ 28'33	
morning set	14596 Nov 15 06:42	0° $\mathcal{X}$ 45'07		asc. node	14597 Oct 30 05:41	14° $\mathfrak{M}$ 45'22	
max. Earth dist.	14596 Nov 21 01:12	13° $\mathcal{X}$ 09'19	1.31358 AU	max. Earth dist.	14597 Nov 04 02:21	24° $\mathfrak{M}$ 51'40	1.32148 AU
					14597 Nov 06 11:33	0° $\mathcal{X}$	
superior conj	14596 Nov 22 12:50	16° $\mathcal{X}$ 26'31	1°22'42				
minimum elong	14596 Nov 22 10:50	16° $\mathcal{X}$ 15'26	1°23'27	superior conj	14597 Nov 06 20:31	0° $\mathcal{X}$ 48'47	1°06'22
	14596 Nov 28 15:52	0° $\mathfrak{Z}$		minimum elong	14597 Nov 06 18:12	0° $\mathcal{X}$ 36'12	1°06'53
evening rise	14596 Nov 29 05:36	1° $\mathfrak{Z}$ 14'24		evening rise	14597 Nov 13 16:32	15° $\mathcal{X}$ 44'38	
desc. node	14596 Dec 14 22:22	0° $\approx$ 30'33			14597 Nov 20 15:51	0° $\mathfrak{Z}$	
	14596 Dec 14 14:20	0° $\approx$		desc. node	14597 Dec 01 19:24	17° $\mathfrak{Z}$ 59'08	
evening max el	14596 Dec 25 22:49	14° $\approx$ 10'40	25°16'19	evening max el	14597 Dec 07 09:08	24° $\mathfrak{Z}$ 18'27	23°37'28
retrograde	14597 Jan 08 18:59	21° $\approx$ 07'46			14597 Dec 15 17:32	0° $\approx$	
evening set	14597 Jan 14 13:11	19° $\approx$ 52'41		retrograde	14597 Dec 20 19:44	0° $\approx$ 59'03	
min. Earth dist.	14597 Jan 19 11:00	17° $\approx$ 11'12	0.56765 AU	evening set	14597 Dec 25 10:03	0° $\approx$ 13'10	
inferior conj	14597 Jan 22 04:33	15° $\approx$ 23'05	-4°55'11		14597 Dec 26 01:25	30° $\mathcal{R}$ $\mathfrak{Z}$	
minimum elong	14597 Jan 22 13:32	15° $\approx$ 08'13	4°52'11	min. Earth dist.	14597 Dec 31 19:59	27° $\mathfrak{Z}$ 08'41	0.55247 AU
morning rise	14597 Jan 30 16:27	11° $\approx$ 11'50		inferior conj	14598 Jan 02 12:58	26° $\mathfrak{Z}$ 08'21	-5°50'05
direct	14597 Feb 01 19:53	10° $\approx$ 58'28		minimum elong	14598 Jan 02 17:45	26° $\mathfrak{Z}$ 01'18	5°48'38
asc. node	14597 Feb 08 07:31	13° $\approx$ 10'14		morning rise	14598 Jan 11 03:08	22° $\mathfrak{Z}$ 14'40	
morning max el	14597 Feb 11 02:23	15° $\approx$ 28'53	19°09'41	direct	14598 Jan 13 18:58	21° $\mathfrak{Z}$ 57'17	
	14597 Feb 21 06:43	0° $\mathfrak{H}$		morning max el	14598 Jan 24 14:56	27° $\mathfrak{Z}$ 09'39	20°21'17
morning set	14597 Feb 27 19:11	12° $\mathfrak{H}$ 27'27		asc. node	14598 Jan 26 04:54	28° $\mathfrak{Z}$ 47'25	
					14598 Jan 27 06:19	0° $\approx$	
superior conj	14597 Mar 08 02:52	28° $\mathfrak{H}$ 51'07	0°39'27	morning set	14598 Feb 12 01:41	27° $\approx$ 05'01	
minimum elong	14597 Mar 08 05:07	29° $\mathfrak{H}$ 01'56	0°39'13		14598 Feb 13 11:41	0° $\mathfrak{H}$	
	14597 Mar 08 17:14	0° $\mathfrak{Y}$					
desc. node	14597 Mar 12 23:47	8° $\mathfrak{Y}$ 00'55		superior conj	14598 Feb 19 16:08	12° $\mathfrak{H}$ 41'47	1°03'58
max. Earth dist.	14597 Mar 14 22:38	11° $\mathfrak{Y}$ 33'43	1.38655 AU	minimum elong	14598 Feb 19 18:48	12° $\mathfrak{H}$ 55'12	1°03'59
evening rise	14597 Mar 18 16:47	18° $\mathfrak{Y}$ 10'58		max. Earth dist.	14598 Feb 25 05:38	23° $\mathfrak{H}$ 37'48	1.36437 AU
	14597 Mar 25 19:10	0° $\mathcal{B}$		desc. node	14598 Feb 27 20:17	28° $\mathfrak{H}$ 31'54	
	14597 Apr 15 18:02	0° $\Pi$			14598 Feb 28 15:27	0° $\mathfrak{Y}$	
evening max el	14597 Apr 22 22:49	8° $\Pi$ 05'12	24°40'03	evening rise	14598 Mar 01 00:55	0° $\mathfrak{Y}$ 43'14	
retrograde	14597 May 04 14:47	14° $\Pi$ 54'15			14598 Mar 18 23:05	0° $\mathcal{B}$	
asc. node	14597 May 07 04:04	14° $\Pi$ 26'04		evening max el	14598 Apr 05 12:19	21° $\mathcal{B}$ 57'16	25°52'52
evening set	14597 May 10 05:43	12° $\Pi$ 31'58		retrograde	14598 Apr 18 02:24	29° $\mathcal{B}$ 11'18	
min. Earth dist.	14597 May 14 17:36	7° $\Pi$ 25'16	0.68418 AU	evening set	14598 Apr 24 04:17	26° $\mathcal{B}$ 41'32	
inferior conj	14597 May 15 18:43	6° $\Pi$ 01'34	2°21'34	asc. node	14598 Apr 24 01:23	26° $\mathcal{B}$ 47'31	
minimum elong	14597 May 15 16:36	6° $\Pi$ 08'38	2°20'07	min. Earth dist.	14598 Apr 28 09:25	22° $\mathcal{B}$ 10'25	0.67444 AU

inferior conj	14598 Apr 29 23:10	20°♄11'22	1°43'59	min. Earth dist.	14599 Apr 11 19:32	6°♄38'43	0.66048 AU
minimum elong	14598 Apr 29 21:06	20°♄17'54	1°42'35	inferior conj	14599 Apr 13 21:48	4°♄11'59	0°54'50
morning rise	14598 May 05 14:34	14°♄23'13		minimum elong	14599 Apr 13 20:26	4°♄16'00	0°53'50
direct	14598 May 08 22:38	13°♄19'40			14599 Apr 17 21:45	30°♄♂	
morning max el	14598 May 15 15:22	16°♄56'00	18°48'15	morning rise	14599 Apr 19 22:21	28°♄35'35	
	14598 May 25 17:52	0°♄		direct	14599 Apr 22 20:22	27°♄48'47	
desc. node	14598 May 26 22:12	1°♄45'28			14599 Apr 27 22:10	0°♄	
greatest brilliancy	14598 May 29 12:31	5°♄41'20	-0.8m	morning max el	14599 Apr 29 05:02	1°♄09'05	18°10'37
morning set	14598 Jun 06 21:35	18°♄38'38		desc. node	14599 May 13 18:59	21°♄44'41	
	14598 Jun 14 04:43	0°♄		morning set	14599 May 18 08:22	29°♄03'51	
max. Earth dist.	14598 Jun 21 14:16	11°♄31'53	1.45747 AU		14599 May 18 22:20	0°♄	
superior conj	14598 Jun 23 03:21	13°♄56'52	-2°13'27	superior conj	14599 Jun 02 12:02	23°♄07'22	-1°59'25
minimum elong	14598 Jun 23 01:52	13°♄51'05	2°14'28	minimum elong	14599 Jun 02 04:06	22°♄36'17	1°59'54
	14598 Jul 03 07:29	0°♄		max. Earth dist.	14599 Jun 04 10:31	26°♄09'06	1.45877 AU
evening rise	14598 Jul 08 10:36	8°♄12'31			14599 Jun 06 21:44	0°♄	
asc. node	14598 Jul 21 00:19	28°♄05'37		evening rise	14599 Jun 18 14:09	18°♄08'51	
	14598 Jul 22 07:24	0°♄			14599 Jun 26 06:09	0°♄	
evening max el	14598 Jul 28 19:53	8°♄11'49	18°30'44	greatest brilliancy	14599 Jun 30 03:23	5°♄54'49	-0.7m
retrograde	14598 Aug 04 07:07	11°♄40'32		asc. node	14599 Jul 07 21:06	16°♄56'18	
evening set	14598 Aug 07 10:37	10°♄44'48		evening max el	14599 Jul 12 05:38	22°♄00'03	19°10'47
inferior conj	14598 Aug 13 04:10	5°♄10'09	2°31'00	retrograde	14599 Jul 19 03:43	25°♄49'50	
minimum elong	14598 Aug 13 06:24	5°♄03'24	2°29'58	evening set	14599 Jul 22 16:37	24°♄37'15	
min. Earth dist.	14598 Aug 15 06:19	2°♄39'22	0.65287 AU	inferior conj	14599 Jul 28 03:15	18°♄48'32	2°56'57
	14598 Aug 17 16:50	30°♄♂		minimum elong	14599 Jul 28 04:46	18°♄43'38	2°56'00
morning rise	14598 Aug 19 00:59	28°♄47'06		min. Earth dist.	14599 Jul 29 14:59	16°♄52'57	0.66911 AU
desc. node	14598 Aug 22 20:06	26°♄34'23		morning rise	14599 Aug 02 16:16	12°♄23'15	
direct	14598 Aug 25 11:52	26°♄08'27		direct	14599 Aug 08 18:28	9°♄45'54	
	14598 Sep 03 10:15	0°♄		desc. node	14599 Aug 09 17:34	9°♄49'25	
morning max el	14598 Sep 07 21:51	4°♄02'02	27°05'17	morning max el	14599 Aug 21 08:58	17°♄17'05	25°57'21
	14598 Sep 27 14:36	0°♄			14599 Sep 01 00:06	0°♄	
morning set	14598 Oct 13 11:58	27°♄42'02			14599 Sep 20 13:17	0°♄	
	14598 Oct 14 16:18	0°♄		morning set	14599 Sep 26 08:15	10°♄18'30	
asc. node	14598 Oct 17 02:19	4°♄48'43		max. Earth dist.	14599 Sep 30 01:23	17°♄17'43	1.35356 AU
max. Earth dist.	14598 Oct 17 18:40	6°♄11'34	1.33496 AU	asc. node	14599 Oct 03 22:55	24°♄56'29	
superior conj	14598 Oct 21 23:04	14°♄53'00	0°44'14	superior conj	14599 Oct 05 17:57	28°♄33'29	0°16'35
minimum elong	14598 Oct 21 21:03	14°♄42'18	0°44'31	minimum elong	14599 Oct 05 17:00	28°♄28'38	0°16'47
evening rise	14598 Oct 29 02:59	0°♄11'20			14599 Oct 06 10:56	0°♄	
	14598 Oct 29 00:50	0°♄		evening rise	14599 Oct 13 11:00	14°♄30'21	
	14598 Nov 15 00:34	0°♄			14599 Oct 21 08:47	0°♄	
desc. node	14598 Nov 18 16:33	4°♄07'51		evening max el	14599 Oct 31 19:22	14°♄47'53	20°26'59
evening max el	14598 Nov 18 20:56	4°♄18'40	21°55'50	desc. node	14599 Nov 05 13:49	18°♄31'41	
retrograde	14598 Dec 01 08:46	10°♄29'46		retrograde	14599 Nov 11 19:25	20°♄16'16	
evening set	14598 Dec 04 14:36	10°♄06'19		evening set	14599 Nov 14 01:16	20°♄03'39	
inferior conj	14598 Dec 13 06:47	6°♄13'45	-5°53'50	inferior conj	14599 Nov 22 22:58	16°♄08'32	-4°57'24
minimum elong	14598 Dec 13 02:35	6°♄19'39	5°52'27	minimum elong	14599 Nov 22 13:04	16°♄22'58	4°53'59
min. Earth dist.	14598 Dec 13 01:55	6°♄20'34	0.54497 AU	min. Earth dist.	14599 Nov 24 08:04	15°♄20'16	0.54681 AU
morning rise	14598 Dec 21 15:25	2°♄26'20		morning rise	14599 Dec 01 00:29	12°♄08'55	
direct	14598 Dec 25 04:55	1°♄58'22		direct	14599 Dec 05 13:51	11°♄24'16	
morning max el	14599 Jan 06 12:38	7°♄54'11	21°54'59	morning max el	14599 Dec 18 23:44	17°♄57'56	23°43'02
asc. node	14599 Jan 13 02:11	15°♄40'10			14599 Dec 28 17:34	0°♄	
	14599 Jan 21 15:41	0°♄		asc. node	14599 Dec 30 23:23	3°♄31'35	
morning set	14599 Jan 27 11:54	11°♄49'02		morning set	14600 Jan 11 23:44	26°♄33'39	
					14600 Jan 13 14:03	0°♄	
superior conj	14599 Feb 03 14:52	26°♄56'21	1°21'42	superior conj	14600 Jan 18 20:05	11°♄26'27	1°32'51
minimum elong	14599 Feb 03 17:07	27°♄08'10	1°22'06	minimum elong	14600 Jan 18 21:28	11°♄33'56	1°33'36
	14599 Feb 05 02:00	0°♄		max. Earth dist.	14600 Jan 21 14:24	17°♄22'39	1.32896 AU
max. Earth dist.	14599 Feb 07 18:09	5°♄28'50	1.34470 AU	evening rise	14600 Jan 26 12:27	27°♄32'21	
evening rise	14599 Feb 12 00:37	13°♄53'21			14600 Jan 27 18:14	0°♄	
desc. node	14599 Feb 14 16:49	18°♄55'11		desc. node	14600 Feb 01 13:25	9°♄06'14	
	14599 Feb 20 23:19	0°♄			14600 Feb 14 05:33	0°♄	
evening max el	14599 Mar 13 19:03	0°♄		evening max el	14600 Mar 01 15:22	19°♄06'16	27°26'38
retrograde	14599 Mar 19 02:12	5°♄41'23	26°50'52	retrograde	14600 Mar 15 07:43	26°♄35'08	
evening set	14599 Apr 07 19:48	10°♄35'47		evening set	14600 Mar 22 02:07	24°♄07'01	
asc. node	14599 Apr 10 22:47	7°♄36'45		min. Earth dist.	14600 Mar 25 21:53	20°♄41'18	0.64281 AU

inferior conj	14600 Mar 28 11:59	17° $\Upsilon$ 56'50	-0°06'36	evening rise	14601 Jan 10 09:25	11° $\approx$ 32'56	
minimum elong	14600 Mar 28 12:11	17° $\Upsilon$ 56'17	0°06'43	desc. node	14601 Jan 19 10:06	28° $\approx$ 59'31	
transit middle	14600 Mar 28 12:11	17° $\Upsilon$ 56'17	0°06'43		14601 Jan 19 23:43	0° $\mathcal{H}$	
transit begin	14600 Mar 28 09:23	18° $\Upsilon$ 03'46			14601 Feb 10 02:05	0° $\Upsilon$	
transit end	14600 Mar 28 15:00	17° $\Upsilon$ 48'49		evening max el	14601 Feb 12 01:47	1° $\Upsilon$ 59'12	27°33'30
asc. node	14600 Mar 28 20:15	17° $\Upsilon$ 34'55		retrograde	14601 Feb 25 23:40	9° $\Upsilon$ 23'50	
morning rise	14600 Apr 04 00:22	12° $\Upsilon$ 34'37		evening set	14601 Mar 04 20:40	7° $\Upsilon$ 06'59	
direct	14600 Apr 06 13:34	12° $\Upsilon$ 01'32		min. Earth dist.	14601 Mar 08 14:45	4° $\Upsilon$ 07'28	0.62222 AU
morning max el	14600 Apr 12 22:09	15° $\Upsilon$ 17'44	17°50'09	inferior conj	14601 Mar 11 14:39	1° $\Upsilon$ 18'02	-1°20'14
	14600 Apr 23 11:19	0° $\mathcal{B}$		minimum elong	14601 Mar 11 17:24	1° $\Upsilon$ 11'30	1°19'01
morning set	14600 Apr 29 22:58	10° $\mathcal{B}$ 49'17			14601 Mar 13 00:14	30° $\mathcal{R}\mathcal{H}$	
desc. node	14600 Apr 30 15:42	11° $\mathcal{B}$ 59'34		asc. node	14601 Mar 15 17:43	27° $\mathcal{H}$ 46'48	
	14600 May 11 13:12	0° $\Pi$		morning rise	14601 Mar 18 17:03	26° $\mathcal{H}$ 12'55	
				direct	14601 Mar 20 22:56	25° $\mathcal{H}$ 50'05	
superior conj	14600 May 13 08:28	2° $\Pi$ 54'24	-1°29'07	morning max el	14601 Mar 27 15:45	29° $\mathcal{H}$ 13'34	17°47'18
minimum elong	14600 May 13 00:03	2° $\Pi$ 20'36	1°29'02		14601 Mar 28 09:55	0° $\Upsilon$	
max. Earth dist.	14600 May 18 06:31	10° $\Pi$ 44'04	1.45262 AU	morning set	14601 Apr 12 12:55	23° $\Upsilon$ 40'49	
evening rise	14600 May 29 02:43	27° $\Pi$ 33'41			14601 Apr 16 03:03	0° $\mathcal{B}$	
	14600 May 30 17:02	0° $\mathcal{E}$		desc. node	14601 Apr 17 12:20	2° $\mathcal{B}$ 25'20	
greatest brilliancy	14600 Jun 12 21:54	19° $\mathcal{E}$ 43'32	-0.6m				
	14600 Jun 20 08:41	0° $\Omega$		superior conj	14601 Apr 24 03:13	13° $\mathcal{B}$ 45'03	-0°50'55
asc. node	14600 Jun 24 18:00	5° $\Omega$ 10'00		minimum elong	14601 Apr 23 22:20	13° $\mathcal{B}$ 24'35	0°50'50
evening max el	14600 Jun 25 09:50	5° $\Omega$ 50'34	20°06'29	max. Earth dist.	14601 Apr 30 23:28	24° $\mathcal{B}$ 59'59	1.43968 AU
retrograde	14600 Jul 03 02:30	10° $\Omega$ 13'22			14601 May 04 02:36	0° $\Pi$	
evening set	14600 Jul 07 01:22	8° $\Omega$ 43'26		evening rise	14601 May 08 16:13	7° $\Pi$ 08'57	
inferior conj	14600 Jul 12 08:11	2° $\Omega$ 41'54	3°09'10		14601 May 23 23:27	0° $\mathcal{E}$	
minimum elong	14600 Jul 12 08:43	2° $\Omega$ 40'04	3°08'13	evening max el	14601 Jun 08 08:04	19° $\mathcal{E}$ 41'35	21°15'15
min. Earth dist.	14600 Jul 13 05:45	1° $\Omega$ 28'36	0.68092 AU	asc. node	14601 Jun 11 14:59	22° $\mathcal{E}$ 34'54	
	14600 Jul 14 08:27	30° $\mathcal{R}\mathcal{E}$		retrograde	14601 Jun 17 01:24	24° $\mathcal{E}$ 45'59	
morning rise	14600 Jul 17 15:44	26° $\mathcal{E}$ 18'45		evening set	14601 Jun 21 10:51	22° $\mathcal{E}$ 59'12	
direct	14600 Jul 23 06:50	23° $\mathcal{E}$ 50'33		inferior conj	14601 Jun 26 16:35	16° $\mathcal{E}$ 46'25	3°09'29
desc. node	14600 Jul 27 14:59	25° $\mathcal{E}$ 02'08		minimum elong	14601 Jun 26 16:08	16° $\mathcal{E}$ 47'58	3°08'27
	14600 Aug 03 01:33	0° $\Omega$		min. Earth dist.	14601 Jun 27 00:38	16° $\mathcal{E}$ 18'22	0.68801 AU
morning max el	14600 Aug 03 19:38	0° $\Omega$ 44'57	24°33'52	morning rise	14601 Jul 01 21:12	10° $\mathcal{E}$ 28'05	
	14600 Aug 25 22:09	0° $\mathcal{M}$		direct	14601 Jul 07 00:02	8° $\mathcal{E}$ 14'48	
morning set	14600 Sep 08 11:00	22° $\mathcal{M}$ 07'34		desc. node	14601 Jul 14 12:19	11° $\mathcal{E}$ 47'12	
max. Earth dist.	14600 Sep 12 01:11	28° $\mathcal{M}$ 30'44	1.37584 AU	morning max el	14601 Jul 17 06:50	14° $\mathcal{E}$ 21'15	23°04'24
	14600 Sep 12 20:50	0° $\mathcal{L}$			14601 Jul 29 23:48	0° $\Omega$	
					14601 Aug 18 20:17	0° $\mathcal{M}$	
superior conj	14600 Sep 19 01:51	11° $\mathcal{L}$ 41'20	-0°15'51	morning set	14601 Aug 20 15:53	2° $\mathcal{M}$ 59'16	
minimum elong	14600 Sep 19 02:54	11° $\mathcal{L}$ 46'26	0°15'33	max. Earth dist.	14601 Aug 24 23:46	10° $\mathcal{M}$ 17'14	1.39958 AU
behind sun begin	14600 Sep 19 01:05	11° $\mathcal{L}$ 37'35					
behind sun end	14600 Sep 19 04:44	11° $\mathcal{L}$ 55'16		superior conj	14601 Sep 01 18:51	24° $\mathcal{M}$ 07'45	-0°51'16
asc. node	14600 Sep 20 19:29	15° $\mathcal{L}$ 04'19		minimum elong	14601 Sep 01 22:43	24° $\mathcal{M}$ 25'29	0°50'49
evening rise	14600 Sep 27 14:11	28° $\mathcal{L}$ 34'48			14601 Sep 04 22:45	0° $\mathcal{L}$	
	14600 Sep 28 07:16	0° $\mathcal{M}$		asc. node	14601 Sep 07 16:03	5° $\mathcal{L}$ 08'54	
evening max el	14600 Oct 14 08:08	26° $\mathcal{M}$ 04'46	19°18'56	evening rise	14601 Sep 11 09:33	12° $\mathcal{L}$ 17'12	
	14600 Oct 19 20:52	0° $\mathcal{J}$			14601 Sep 21 04:37	0° $\mathcal{M}$	
desc. node	14600 Oct 23 11:11	0° $\mathcal{J}$ 46'26		evening max el	14601 Sep 27 09:25	8° $\mathcal{M}$ 09'58	18°33'05
retrograde	14600 Oct 23 16:59	0° $\mathcal{J}$ 46'36		retrograde	14601 Oct 05 08:48	12° $\mathcal{M}$ 11'51	
evening set	14600 Oct 25 13:55	0° $\mathcal{J}$ 36'09		evening set	14601 Oct 07 07:43	11° $\mathcal{M}$ 58'04	
	14600 Oct 27 17:42	30° $\mathcal{R}\mathcal{M}$		desc. node	14601 Oct 10 08:39	10° $\mathcal{M}$ 47'10	
inferior conj	14600 Nov 03 03:47	26° $\mathcal{M}$ 26'49	-3°20'04	inferior conj	14601 Oct 15 05:18	7° $\mathcal{M}$ 28'56	-1°33'09
minimum elong	14600 Nov 02 19:27	26° $\mathcal{M}$ 40'33	3°16'16	minimum elong	14601 Oct 15 01:35	7° $\mathcal{M}$ 36'06	1°31'07
min. Earth dist.	14600 Nov 05 17:50	24° $\mathcal{M}$ 44'47	0.55761 AU	min. Earth dist.	14601 Oct 18 10:02	5° $\mathcal{M}$ 02'05	0.57544 AU
morning rise	14600 Nov 10 22:40	21° $\mathcal{M}$ 56'28		morning rise	14601 Oct 22 15:58	2° $\mathcal{M}$ 20'59	
direct	14600 Nov 16 08:42	20° $\mathcal{M}$ 49'40		direct	14601 Oct 28 18:15	0° $\mathcal{M}$ 47'28	
morning max el	14600 Nov 30 09:27	27° $\mathcal{M}$ 54'54	25°29'18	morning max el	14601 Nov 12 00:59	8° $\mathcal{M}$ 18'02	26°54'45
	14600 Dec 02 11:03	0° $\mathcal{J}$			14601 Nov 28 09:28	0° $\mathcal{J}$	
asc. node	14600 Dec 17 20:29	22° $\mathcal{J}$ 07'10		asc. node	14601 Dec 04 17:29	11° $\mathcal{J}$ 15'29	
	14600 Dec 22 01:00	0° $\mathcal{Z}$		morning set	14601 Dec 11 21:02	25° $\mathcal{J}$ 44'31	
morning set	14600 Dec 27 11:23	11° $\mathcal{Z}$ 13'50			14601 Dec 13 20:13	0° $\mathcal{Z}$	
superior conj	14601 Jan 03 05:24	26° $\mathcal{Z}$ 05'23	1°37'43	superior conj	14601 Dec 18 16:41	10° $\mathcal{Z}$ 46'47	1°36'32
minimum elong	14601 Jan 03 05:43	26° $\mathcal{Z}$ 07'09	1°38'41	minimum elong	14601 Dec 18 15:57	10° $\mathcal{Z}$ 42'40	1°37'33
max. Earth dist.	14601 Jan 04 17:29	29° $\mathcal{Z}$ 24'29	1.31790 AU	max. Earth dist.	14601 Dec 19 00:39	11° $\mathcal{Z}$ 31'19	1.31201 AU
	14601 Jan 04 23:57	0° $\approx$		evening rise	14601 Dec 25 12:57	25° $\mathcal{Z}$ 48'39	

	14601 Dec 27 12:56	0°♊
desc. node	14602 Jan 06 06:53	18°♊27'19
	14602 Jan 13 14:16	0°♋