

superior conj	100 Apr 10 j 19:55	19° Υ 19'30	-0°11'19	morning set	101 Mar 18 j 02:10	17° X 26'31	
minimum elong	100 Apr 10 j 20:28	19° Υ 22'24	0°11'13	max. Earth dist.	101 Mar 22 j 23:50	27° X 21'35	1.33518 AU
behind sun begin	100 Apr 10 j 16:46	19° Υ 02'24			101 Mar 24 j 06:12	0° Υ	
behind sun end	100 Apr 11 j 00:09	19° Υ 42'25					
asc. node	100 Apr 11 j 21:38	21° Υ 39'01		superior conj	101 Mar 26 j 01:38	3° Υ 49'19	-0°38'17
	100 Apr 15 j 18:01	0° Z		minimum elong	101 Mar 26 j 03:29	3° Υ 59'08	0°37'54
evening rise	100 Apr 17 j 19:40	4° Z 25'10		asc. node	101 Mar 29 j 18:41	11° Υ 44'56	
	100 May 01 j 14:16	0° Π		evening rise	101 Apr 02 j 06:56	19° Υ 12'36	
evening max el	100 May 12 j 04:33	13° Π 20'11	24°00'18		101 Apr 07 j 15:02	0° Z	
desc. node	100 May 21 j 11:25	19° Π 29'46		evening max el	101 Apr 23 j 20:42	23° Z 54'50	22°24'58
retrograde	100 May 25 j 23:57	20° Π 16'21			101 May 03 j 23:43	0° Π	
evening set	100 May 30 j 07:09	19° Π 35'24		retrograde	101 May 06 j 20:22	0° Π 18'45	
min. Earth dist.	100 Jun 05 j 15:41	16° Π 31'44	0.56380 AU	desc. node	101 May 08 j 08:27	0° Π 13'42	
inferior conj	100 Jun 08 j 02:21	15° Π 01'15	-4°13'08	evening set	101 May 09 j 19:38	29° Z 59'22	
minimum elong	100 Jun 07 j 20:29	15° Π 10'21	4°12'07		101 May 09 j 18:26	30° R Z	
morning rise	100 Jun 16 j 12:38	11° Π 01'09		min. Earth dist.	101 May 18 j 04:07	26° Z 23'19	0.55255 AU
direct	100 Jun 19 j 04:02	10° Π 42'59		inferior conj	101 May 19 j 04:16	25° Z 49'09	-2°56'10
morning max el	100 Jun 29 j 00:37	15° Π 17'03	19°48'48	minimum elong	101 May 18 j 21:10	25° Z 59'12	2°54'05
asc. node	100 Jul 08 j 20:53	28° Π 32'40		morning rise	101 May 28 j 00:36	21° Z 55'26	
	100 Jul 09 j 16:56	0° Z		direct	101 May 30 j 21:00	21° Z 36'54	
morning set	100 Jul 16 j 19:53	13° Z 39'20		morning max el	101 Jun 11 j 08:55	26° Z 58'35	21°07'53
					101 Jun 14 j 06:47	0° Π	
superior conj	100 Jul 24 j 17:17	29° Z 36'29	1°46'42	asc. node	101 Jun 25 j 17:55	17° Π 39'48	
minimum elong	100 Jul 24 j 16:49	29° Z 34'11	1°46'41	morning set	101 Jul 01 j 03:27	28° Π 22'43	
	100 Jul 24 j 22:01	0° Ω			101 Jul 01 j 22:16	0° Z	
max. Earth dist.	100 Jul 30 j 09:41	10° Ω 37'14	1.37173 AU				
evening rise	100 Aug 03 j 05:58	17° Ω 42'00		superior conj	101 Jul 08 j 13:59	13° Z 52'17	1°40'50
	100 Aug 10 j 08:48	0° W		minimum elong	101 Jul 08 j 12:14	13° Z 43'17	1°40'43
desc. node	100 Aug 17 j 10:45	11° W 15'34		max. Earth dist.	101 Jul 12 j 19:45	22° Z 28'20	1.35456 AU
	100 Aug 30 j 20:59	0° Z			101 Jul 16 j 16:43	0° Ω	
evening max el	100 Sep 08 j 02:04	9° Z 15'46	25°32'32	evening rise	101 Jul 17 j 02:13	0° Ω 45'00	
retrograde	100 Sep 20 j 05:41	16° Z 14'34			101 Aug 03 j 10:30	0° W	
evening set	100 Sep 26 j 05:26	13° Z 43'16		desc. node	101 Aug 04 j 07:46	1° W 18'46	
min. Earth dist.	100 Sep 30 j 14:35	8° Z 52'25	0.66943 AU	evening max el	101 Aug 21 j 13:59	22° W 51'49	26°33'23
inferior conj	100 Oct 01 j 18:00	7° Z 24'11	-1°03'29		101 Sep 02 j 06:01	0° Z	
minimum elong	100 Oct 01 j 19:36	7° Z 19'02	1°02'48	retrograde	101 Sep 03 j 10:59	0° Z 04'56	
asc. node	100 Oct 04 j 20:06	3° Z 40'58			101 Sep 04 j 15:18	30° R W	
morning rise	100 Oct 07 j 09:57	1° Z 27'13		evening set	101 Sep 10 j 00:30	27° W 22'31	
direct	100 Oct 10 j 18:18	0° Z 22'25		min. Earth dist.	101 Sep 14 j 02:06	23° W 08'50	0.66073 AU
morning max el	100 Oct 17 j 22:05	4° Z 25'34	19°22'16	inferior conj	101 Sep 15 j 17:21	21° W 10'37	-1°59'44
	100 Nov 05 j 04:32	0° W		minimum elong	101 Sep 15 j 20:24	21° W 01'25	1°58'33
morning set	100 Nov 10 j 18:01	8° W 37'12		morning rise	101 Sep 21 j 16:44	15° W 24'53	
desc. node	100 Nov 13 j 10:04	12° W 46'23		asc. node	101 Sep 21 j 17:08	15° W 24'20	
	100 Nov 24 j 09:47	0° X		direct	101 Sep 24 j 16:12	14° W 34'55	
max. Earth dist.	100 Nov 24 j 06:25	29° W 46'43	1.44594 AU	morning max el	101 Oct 01 j 08:48	18° W 16'38	18°35'37
					101 Oct 10 j 05:01	0° Z	
superior conj	100 Nov 27 j 12:32	4° X 56'35	-1°24'23	morning set	101 Oct 21 j 17:53	18° Z 15'29	
minimum elong	100 Nov 27 j 04:11	4° X 23'22	1°23'32		101 Oct 29 j 02:48	0° W	
evening rise	100 Dec 11 j 22:03	28° X 22'54		desc. node	101 Oct 31 j 07:05	3° W 26'49	
	100 Dec 12 j 21:24	0° Z					
evening max el	100 Dec 31 j 06:26	27° Z 47'35	18°26'41	superior conj	101 Nov 06 j 13:54	13° W 20'45	-0°40'30
asc. node	100 Dec 31 j 19:24	28° Z 19'32		minimum elong	101 Nov 06 j 08:38	13° W 00'04	0°39'50
	101 Jan 02 j 20:29	0° \approx		max. Earth dist.	101 Nov 07 j 00:53	14° W 03'55	1.45045 AU
retrograde	101 Jan 06 j 19:26	1° \approx 22'49			101 Nov 17 j 03:47	0° X	
evening set	101 Jan 09 j 19:50	0° \approx 32'49		evening rise	101 Nov 22 j 13:40	8° X 34'38	
	101 Jan 10 j 17:04	30° R Z		greatest brilliancy	101 Dec 01 j 03:10	22° X 10'31	-0.8m
inferior conj	101 Jan 15 j 18:01	25° Z 02'34	3°40'58		101 Dec 06 j 04:38	0° Z	
minimum elong	101 Jan 15 j 16:16	25° Z 07'39	3°40'45	evening max el	101 Dec 14 j 16:40	11° Z 13'31	19°01'41
min. Earth dist.	101 Jan 17 j 21:58	22° Z 32'32	0.64266 AU	asc. node	101 Dec 18 j 16:26	14° Z 22'48	
morning rise	101 Jan 21 j 12:09	18° Z 57'29		retrograde	101 Dec 21 j 14:12	15° Z 08'53	
direct	101 Jan 28 j 09:38	16° Z 06'42		evening set	101 Dec 24 j 20:38	14° Z 07'02	
desc. node	101 Feb 09 j 09:16	22° Z 24'43		inferior conj	101 Dec 30 j 12:24	8° Z 19'55	3°17'45
morning max el	101 Feb 10 j 22:59	23° Z 55'29	27°26'24	minimum elong	101 Dec 30 j 09:48	8° Z 28'04	3°17'12
	101 Feb 16 j 10:27	0° \approx		min. Earth dist.	102 Jan 01 j 01:08	6° Z 24'44	0.65681 AU
	101 Mar 08 j 15:48	0° X		morning rise	102 Jan 04 j 22:43	2° Z 09'54	

	102 Jan 08 j 05:39	30° RA		inferior conj	102 Dec 14 j 13:15	21° A 49'20	2°44'09
direct	102 Jan 11 j 10:59	29° A 19'36		minimum elong	102 Dec 14 j 10:28	21° A 58'34	2°43'21
	102 Jan 14 j 21:39	0° B		min. Earth dist.	102 Dec 15 j 12:13	20° A 33'04	0.66702 AU
morning max el	102 Jan 24 j 08:43	6° B 54'18	26°34'54	morning rise	102 Dec 19 j 19:03	15° A 36'29	
desc. node	102 Jan 27 j 06:19	9° B 59'26		direct	102 Dec 25 j 18:05	12° A 57'49	
	102 Feb 11 j 06:34	0° C		morning max el	103 Jan 06 j 17:44	20° A 05'28	25°21'23
	102 Feb 28 j 23:51	0° H		desc. node	103 Jan 14 j 03:22	28° A 34'41	
morning set	102 Mar 01 j 09:07	0° H 43'43			103 Jan 15 j 06:07	0° B	
max. Earth dist.	102 Mar 05 j 14:20	8° H 54'14	1.34753 AU		103 Feb 04 j 10:06	0° C	
				morning set	103 Feb 11 j 23:54	13° C 08'39	
superior conj	102 Mar 10 j 01:23	17° H 56'24	-1°04'46	max. Earth dist.	103 Feb 15 j 17:18	20° C 00'34	1.36430 AU
minimum elong	102 Mar 10 j 04:27	18° H 12'11	1°04'13		103 Feb 20 j 21:40	0° H	
	102 Mar 15 j 20:07	0° Y					
asc. node	102 Mar 16 j 15:45	1° Y 42'19		superior conj	103 Feb 21 j 16:22	1° H 32'33	-1°29'04
evening rise	102 Mar 17 j 15:55	3° Y 47'44		minimum elong	103 Feb 21 j 20:12	1° H 51'34	1°28'33
	102 Apr 01 j 14:19	0° B		evening rise	103 Mar 01 j 20:28	18° H 03'39	
evening max el	102 Apr 05 j 20:40	4° B 49'35	20°57'15	asc. node	103 Mar 03 j 12:48	21° H 26'08	
retrograde	102 Apr 17 j 09:43	10° B 25'04			103 Mar 07 j 23:38	0° Y	
evening set	102 Apr 19 j 15:15	10° B 13'19		evening max el	103 Mar 19 j 07:49	16° Y 20'28	19°45'23
desc. node	102 Apr 25 j 05:29	8° B 15'36		retrograde	103 Mar 29 j 03:43	21° Y 03'39	
inferior conj	102 Apr 28 j 22:26	6° B 15'06	-1°03'47	evening set	103 Mar 31 j 06:19	20° Y 51'35	
minimum elong	102 Apr 28 j 19:24	6° B 19'23	1°02'41	inferior conj	103 Apr 08 j 23:18	16° Y 49'16	0°53'04
min. Earth dist.	102 Apr 29 j 17:00	5° B 48'46	0.55011 AU	minimum elong	103 Apr 09 j 01:32	16° Y 45'46	0°52'17
morning rise	102 May 07 j 23:18	2° B 09'33		min. Earth dist.	103 Apr 11 j 07:17	15° Y 22'17	0.55725 AU
direct	102 May 11 j 07:10	1° B 45'39		desc. node	103 Apr 12 j 02:33	14° Y 53'22	
morning max el	102 May 24 j 07:00	7° B 59'30	22°42'49	morning rise	103 Apr 17 j 18:20	12° Y 14'33	
	102 Jun 08 j 21:23	0° II		direct	103 Apr 21 j 23:53	11° Y 34'42	
asc. node	102 Jun 12 j 14:59	7° II 12'12		morning max el	103 May 05 j 22:45	18° Y 33'26	24°23'57
morning set	102 Jun 15 j 14:08	13° II 17'06			103 May 15 j 10:26	0° B	
				asc. node	103 May 30 j 12:03	27° B 01'56	
superior conj	102 Jun 22 j 17:56	28° II 30'58	1°29'02	morning set	103 May 31 j 02:03	28° B 15'23	
minimum elong	102 Jun 22 j 15:33	28° II 18'18	1°28'47		103 May 31 j 21:50	0° II	
	102 Jun 23 j 10:44	0° C					
max. Earth dist.	102 Jun 25 j 15:07	4° C 34'52	1.34093 AU	superior conj	103 Jun 07 j 02:27	13° II 22'51	1°12'34
evening rise	102 Jun 30 j 12:58	14° C 31'45		minimum elong	103 Jun 06 j 24:00	13° II 09'32	1°12'11
	102 Jul 08 j 21:03	0° Q		max. Earth dist.	103 Jun 08 j 19:05	17° II 02'11	1.33121 AU
desc. node	102 Jul 22 j 04:48	20° Q 54'53		evening rise	103 Jun 14 j 10:01	28° II 49'02	
	102 Jul 29 j 05:26	0° M			103 Jun 15 j 00:04	0° C	
evening max el	102 Aug 04 j 01:48	6° M 17'42	27°13'07		103 Jul 02 j 00:35	0° Q	
retrograde	102 Aug 17 j 10:51	13° M 36'46		desc. node	103 Jul 09 j 01:50	9° Q 51'29	
evening set	102 Aug 24 j 11:04	10° M 51'16		evening max el	103 Jul 17 j 11:54	19° Q 20'46	27°25'20
min. Earth dist.	102 Aug 28 j 05:53	7° M 14'21	0.64843 AU	retrograde	103 Jul 31 j 04:55	26° Q 40'15	
inferior conj	102 Aug 30 j 10:03	4° M 50'08	-2°54'14	evening set	103 Aug 07 j 09:52	24° Q 03'27	
minimum elong	102 Aug 30 j 14:19	4° M 38'19	2°52'49	min. Earth dist.	103 Aug 11 j 00:10	20° Q 58'40	0.63246 AU
	102 Sep 04 j 13:20	30° RQ		inferior conj	103 Aug 13 j 17:24	18° Q 16'19	-3°43'50
morning rise	102 Sep 05 j 18:21	29° Q 18'54		minimum elong	103 Aug 13 j 22:13	18° Q 04'17	3°42'35
direct	102 Sep 08 j 11:15	28° Q 40'15		morning rise	103 Aug 20 j 11:45	13° Q 02'46	
asc. node	102 Sep 08 j 14:12	28° Q 40'20		direct	103 Aug 23 j 00:34	12° Q 32'14	
	102 Sep 12 j 09:36	0° M		asc. node	103 Aug 26 j 11:16	13° Q 29'39	
morning max el	102 Sep 14 j 23:31	2° M 09'34	18°05'38	morning max el	103 Aug 29 j 15:21	15° Q 57'38	17°53'16
morning set	102 Oct 02 j 22:25	29° M 18'07			103 Sep 08 j 12:19	0° M	
	102 Oct 03 j 08:26	0° Q		morning set	103 Sep 15 j 03:38	11° M 31'38	
					103 Sep 25 j 21:04	0° Q	
superior conj	102 Oct 16 j 20:22	22° Q 05'29	0°08'45				
minimum elong	102 Oct 16 j 21:26	22° Q 09'46	0°08'36	superior conj	103 Sep 27 j 01:41	1° Q 59'30	0°51'31
behind sun begin	102 Oct 16 j 12:17	21° Q 33'10		minimum elong	103 Sep 27 j 06:21	2° Q 18'55	0°50'56
behind sun end	102 Oct 17 j 06:35	22° Q 46'19		max. Earth dist.	103 Oct 03 j 11:41	12° Q 29'09	1.43762 AU
desc. node	102 Oct 18 j 04:07	24° Q 12'10		desc. node	103 Oct 05 j 01:09	14° Q 59'12	
max. Earth dist.	102 Oct 20 j 19:41	28° Q 24'14	1.44751 AU	evening rise	103 Oct 12 j 14:39	26° Q 51'21	
	102 Oct 21 j 19:57	0° M			103 Oct 14 j 15:38	0° M	
evening rise	102 Nov 02 j 07:35	17° M 54'45			103 Nov 04 j 04:06	0° A	
	102 Nov 10 j 04:05	0° A		evening max el	103 Nov 10 j 23:12	8° A 09'56	20°57'44
greatest brilliancy	102 Nov 15 j 17:48	8° A 25'32	-0.7m	retrograde	103 Nov 19 j 09:15	13° A 09'26	
evening max el	102 Nov 27 j 22:41	24° A 41'19	19°52'51	asc. node	103 Nov 22 j 10:32	12° A 16'43	
retrograde	102 Dec 05 j 11:36	29° A 05'39		evening set	103 Nov 23 j 08:59	11° A 38'54	
asc. node	102 Dec 05 j 13:30	29° A 05'37		inferior conj	103 Nov 28 j 18:08	5° A 27'21	2°02'45
evening set	102 Dec 09 j 01:42	27° A 50'21		minimum elong	103 Nov 28 j 15:42	5° A 35'40	2°01'53

min. Earth dist.	103 Nov 29 j 04:57	4°♊50'13	0.67348 AU	asc. node	104 Nov 08 j 07:34	23°♎56'55	
	103 Dec 03 j 02:48	30°♏♎		inferior conj	104 Nov 12 j 00:58	19°♎10'55	1°15'22
morning rise	103 Dec 03 j 22:14	29°♎13'45		minimum elong	104 Nov 11 j 23:19	19°♎16'39	1°14'42
direct	103 Dec 09 j 06:22	26°♎53'54		min. Earth dist.	104 Nov 12 j 00:49	19°♎11'28	0.67656 AU
	103 Dec 16 j 09:01	0°♊		morning rise	104 Nov 17 j 05:48	12°♎58'49	
morning max el	103 Dec 20 j 02:16	3°♊21'35	23°55'53	direct	104 Nov 21 j 22:52	11°♎01'09	
desc. node	104 Jan 01 j 00:25	17°♊52'48		morning max el	104 Dec 01 j 12:57	16°♎41'46	22°28'13
	104 Jan 09 j 11:10	0°♊			104 Dec 12 j 10:15	0°♊	
morning set	104 Jan 24 j 16:28	24°♊24'51		desc. node	104 Dec 17 j 21:25	7°♊40'59	
	104 Jan 27 j 21:27	0°♊			105 Jan 01 j 13:14	0°♊	
max. Earth dist.	104 Jan 28 j 12:48	1°♊08'03	1.38446 AU	morning set	105 Jan 04 j 04:51	4°♊16'55	
				max. Earth dist.	105 Jan 09 j 08:56	12°♊52'32	1.40576 AU
superior conj	104 Feb 04 j 18:58	14°♊28'26	-1°48'46				
minimum elong	104 Feb 04 j 22:34	14°♊45'32	1°48'29	superior conj	105 Jan 17 j 04:23	26°♊31'12	-2°00'33
	104 Feb 12 j 18:55	0°♊		minimum elong	105 Jan 17 j 06:03	26°♊38'40	2°00'31
evening rise	104 Feb 13 j 18:04	1°♊53'30			105 Jan 19 j 02:28	0°♊	
asc. node	104 Feb 18 j 09:52	10°♊51'09		evening rise	105 Jan 27 j 05:31	15°♊08'45	
evening max el	104 Mar 01 j 05:40	28°♊29'46	18°52'52	asc. node	105 Feb 04 j 06:54	29°♊50'03	
	104 Mar 02 j 23:20	0°♊			105 Feb 04 j 09:15	0°♊	
retrograde	104 Mar 09 j 12:57	2°♊30'41		evening max el	105 Feb 12 j 11:27	11°♊09'31	18°20'26
evening set	104 Mar 11 j 19:55	2°♊13'36		retrograde	105 Feb 19 j 17:05	14°♊44'38	
	104 Mar 16 j 17:20	30°♊		evening set	105 Feb 22 j 05:25	14°♊19'47	
inferior conj	104 Mar 19 j 17:57	27°♊55'49	2°24'49	inferior conj	105 Mar 01 j 09:39	9°♊41'22	3°21'25
minimum elong	104 Mar 19 j 22:17	27°♊48'00	2°23'38	minimum elong	105 Mar 01 j 12:55	9°♊34'27	3°20'53
min. Earth dist.	104 Mar 22 j 23:42	25°♊36'44	0.57241 AU	min. Earth dist.	105 Mar 04 j 19:55	6°♊49'39	0.59227 AU
morning rise	104 Mar 27 j 21:37	22°♊48'08		morning rise	105 Mar 08 j 18:04	4°♊07'46	
desc. node	104 Mar 28 j 23:35	22°♊23'13		direct	105 Mar 15 j 01:56	2°♊20'47	
direct	104 Apr 02 j 06:27	21°♊38'36		desc. node	105 Mar 15 j 20:37	2°♊22'23	
morning max el	104 Apr 16 j 13:58	29°♊06'13	25°56'54	morning max el	105 Mar 29 j 09:30	10°♊03'25	27°06'53
	104 Apr 17 j 11:41	0°♊			105 Apr 13 j 17:55	0°♊	
	104 May 07 j 23:09	0°♊		morning set	105 Apr 28 j 23:03	28°♊01'30	
morning set	104 May 14 j 13:35	13°♊12'08			105 Apr 29 j 21:38	0°♊	
asc. node	104 May 16 j 09:08	17°♊03'36		asc. node	105 May 03 j 06:11	7°♊12'13	
				max. Earth dist.	105 May 05 j 17:52	12°♊38'46	1.32321 AU
superior conj	104 May 21 j 13:29	28°♊21'04	0°52'22				
minimum elong	104 May 21 j 11:26	28°♊09'49	0°51'58	superior conj	105 May 06 j 01:15	13°♊19'21	0°29'13
max. Earth dist.	104 May 22 j 05:10	29°♊46'53	1.32537 AU	minimum elong	105 May 05 j 23:59	13°♊12'23	0°28'57
	104 May 22 j 07:33	0°♊		evening rise	105 May 12 j 22:56	28°♊17'11	
evening rise	104 May 28 j 14:12	13°♊27'01			105 May 13 j 18:35	0°♊	
	104 Jun 06 j 02:20	0°♊			105 May 30 j 14:26	0°♊	
desc. node	104 Jun 24 j 22:51	27°♊52'00		evening max el	105 Jun 10 j 17:55	13°♊33'14	26°12'52
	104 Jun 26 j 22:12	0°♊		desc. node	105 Jun 11 j 19:52	14°♊33'14	
evening max el	104 Jun 28 j 18:02	1°♊48'55	27°05'27	retrograde	105 Jun 24 j 18:34	20°♊46'09	
retrograde	104 Jul 12 j 16:03	9°♊05'44		evening set	105 Jul 01 j 03:05	19°♊06'52	
evening set	104 Jul 19 j 16:45	6°♊51'39		min. Earth dist.	105 Jul 05 j 06:48	16°♊29'01	0.59290 AU
min. Earth dist.	104 Jul 23 j 08:14	4°♊08'19	0.61345 AU	inferior conj	105 Jul 08 j 14:46	13°♊56'20	-4°44'50
inferior conj	104 Jul 26 j 12:09	1°♊21'28	-4°23'24	minimum elong	105 Jul 08 j 16:03	13°♊53'52	4°44'47
minimum elong	104 Jul 26 j 16:13	1°♊12'30	4°22'45	morning rise	105 Jul 16 j 07:10	9°♊25'38	
	104 Jul 28 j 01:48	30°♊		direct	105 Jul 18 j 19:06	9°♊04'02	
morning rise	104 Aug 02 j 17:20	26°♊28'21		morning max el	105 Jul 26 j 14:20	12°♊48'36	18°25'35
direct	104 Aug 05 j 04:33	26°♊03'16		asc. node	105 Jul 30 j 05:22	16°♊58'28	
morning max el	104 Aug 12 j 05:18	29°♊33'18	17°59'31		105 Aug 07 j 05:29	0°♊	
asc. node	104 Aug 12 j 08:19	29°♊40'43		morning set	105 Aug 11 j 16:31	8°♊24'54	
	104 Aug 12 j 15:59	0°♊					
morning set	104 Aug 28 j 03:23	24°♊38'31		superior conj	105 Aug 20 j 18:41	25°♊39'23	1°39'49
	104 Aug 31 j 01:25	0°♊		minimum elong	105 Aug 20 j 21:21	25°♊51'42	1°39'39
					105 Aug 23 j 03:41	0°♊	
superior conj	104 Sep 07 j 10:20	13°♊14'04	1°22'02	max. Earth dist.	105 Aug 28 j 05:08	8°♊57'17	1.40304 AU
minimum elong	104 Sep 07 j 14:54	13°♊34'02	1°21'33	evening rise	105 Sep 01 j 15:46	16°♊28'52	
max. Earth dist.	104 Sep 14 j 22:53	26°♊03'17	1.42214 AU	desc. node	105 Sep 07 j 19:11	26°♊24'40	
	104 Sep 17 j 08:32	0°♊			105 Sep 10 j 02:25	0°♊	
desc. node	104 Sep 20 j 22:10	5°♊44'27			105 Oct 01 j 15:15	0°♊	
evening rise	104 Sep 21 j 04:42	6°♊10'26		evening max el	105 Oct 06 j 08:30	5°♊11'41	23°32'29
	104 Oct 06 j 22:36	0°♊		retrograde	105 Oct 16 j 22:09	11°♊26'03	
evening max el	104 Oct 23 j 18:05	21°♊39'23	22°12'40	evening set	105 Oct 21 j 23:08	9°♊20'27	
retrograde	104 Nov 02 j 05:10	27°♊16'59		asc. node	105 Oct 26 j 04:35	4°♊31'57	
evening set	104 Nov 06 j 16:40	25°♊29'24		inferior conj	105 Oct 27 j 08:00	2°♊58'39	0°23'37

minimum elong	105 Oct 27 j 07:27	3°♄00'34	0°23'22	evening set	106 Oct 06 j 02:42	23°♄09'10	
min. Earth dist.	105 Oct 26 j 21:23	3°♄34'57	0.67638 AU	min. Earth dist.	106 Oct 10 j 16:18	17°♄58'01	0.67292 AU
	105 Oct 29 j 14:02	30°♄		inferior conj	106 Oct 11 j 13:30	16°♄47'56	-0°31'09
morning rise	105 Nov 01 j 15:41	26°♄50'30		minimum elong	106 Oct 11 j 14:16	16°♄45'22	0°30'50
direct	105 Nov 05 j 18:40	25°♄15'16		asc. node	106 Oct 13 j 01:36	14°♄50'38	
morning max el	105 Nov 14 j 05:29	0°♄11'05	21°06'32	morning rise	106 Oct 17 j 01:56	10°♄46'17	
	105 Nov 14 j 01:04	0°♄		direct	106 Oct 20 j 16:26	9°♄31'25	
desc. node	105 Dec 04 j 18:27	27°♄51'10		morning max el	106 Oct 28 j 05:43	13°♄50'57	19°56'17
	105 Dec 06 j 04:42	0°♄			106 Nov 09 j 13:34	0°♄	
morning set	105 Dec 14 j 13:37	12°♄52'31		desc. node	106 Nov 21 j 15:29	18°♄16'51	
max. Earth dist.	105 Dec 22 j 12:09	25°♄34'25	1.42524 AU	morning set	106 Nov 23 j 10:05	21°♄01'09	
	105 Dec 25 j 04:40	0°♄			106 Nov 29 j 04:38	0°♄	
				max. Earth dist.	106 Dec 04 j 22:57	9°♄06'21	1.44012 AU
superior conj	105 Dec 29 j 15:17	7°♄28'23	-2°00'03				
minimum elong	105 Dec 29 j 12:50	7°♄17'57	1°59'58	superior conj	106 Dec 09 j 23:35	17°♄11'46	-1°42'47
evening rise	106 Jan 10 j 03:10	27°♄42'03		minimum elong	106 Dec 09 j 16:25	16°♄42'40	1°42'13
	106 Jan 11 j 09:50	0°♄			106 Dec 17 j 17:29	0°♄	
asc. node	106 Jan 22 j 03:55	18°♄14'48		evening rise	106 Dec 23 j 06:45	9°♄25'22	
evening max el	106 Jan 26 j 22:01	24°♄10'59	18°07'48		107 Jan 04 j 15:50	0°♄	
retrograde	106 Feb 02 j 13:42	27°♄36'13		asc. node	107 Jan 09 j 00:55	5°♄55'19	
evening set	106 Feb 05 j 06:38	27°♄02'21		evening max el	107 Jan 10 j 10:29	7°♄26'44	18°14'26
inferior conj	106 Feb 11 j 20:28	22°♄02'33	3°46'41	retrograde	107 Jan 16 j 22:09	10°♄55'21	
minimum elong	106 Feb 11 j 21:31	21°♄59'59	3°46'38	evening set	107 Jan 19 j 19:33	10°♄11'39	
min. Earth dist.	106 Feb 14 j 22:58	19°♄02'53	0.61330 AU	inferior conj	107 Jan 25 j 22:33	4°♄51'54	3°48'13
morning rise	106 Feb 18 j 10:58	16°♄11'46		minimum elong	107 Jan 25 j 21:38	4°♄54'26	3°48'09
direct	106 Feb 25 j 07:52	13°♄50'26		min. Earth dist.	107 Jan 28 j 11:18	2°♄06'17	0.63275 AU
desc. node	106 Mar 02 j 17:39	15°♄09'02			107 Jan 30 j 14:13	30°♄	
morning max el	106 Mar 11 j 11:29	21°♄40'45	27°43'21	morning rise	107 Jan 31 j 22:54	28°♄50'31	
	106 Mar 18 j 18:24	0°♄		direct	107 Feb 07 j 22:31	26°♄06'15	
	106 Apr 06 j 18:10	0°♄			107 Feb 17 j 06:39	0°♄	
morning set	106 Apr 13 j 04:33	12°♄36'51		desc. node	107 Feb 17 j 14:41	0°♄15'29	
max. Earth dist.	106 Apr 19 j 05:23	25°♄24'27	1.32473 AU	morning max el	107 Feb 21 j 18:42	3°♄58'39	27°42'43
asc. node	106 Apr 20 j 03:12	27°♄23'14			107 Mar 13 j 07:11	0°♄	
				morning set	107 Mar 28 j 03:52	26°♄50'37	
superior conj	106 Apr 20 j 12:03	28°♄11'33	0°03'55		107 Mar 29 j 17:21	0°♄	
minimum elong	106 Apr 20 j 11:52	28°♄10'33	0°03'53	max. Earth dist.	107 Apr 02 j 11:35	7°♄49'36	1.33014 AU
behind sun begin	106 Apr 20 j 06:56	27°♄43'32					
behind sun end	106 Apr 20 j 16:49	28°♄37'35		superior conj	107 Apr 04 j 20:13	12°♄52'02	-0°22'44
	106 Apr 21 j 07:54	0°♄		minimum elong	107 Apr 04 j 21:19	12°♄57'53	0°22'29
evening rise	106 Apr 27 j 10:08	13°♄11'49		asc. node	107 Apr 07 j 00:15	17°♄32'46	
	106 May 05 j 22:16	0°♄		evening rise	107 Apr 11 j 21:56	28°♄04'19	
evening max el	106 May 23 j 11:04	24°♄33'48	24°53'21		107 Apr 12 j 19:58	0°♄	
desc. node	106 May 29 j 16:54	29°♄23'13			107 Apr 30 j 09:36	0°♄	
	106 May 30 j 20:27	0°♄		evening max el	107 May 05 j 01:25	5°♄09'22	23°19'30
retrograde	106 Jun 06 j 10:32	1°♄39'28		desc. node	107 May 16 j 13:54	11°♄45'41	
evening set	106 Jun 11 j 14:14	0°♄38'53		retrograde	107 May 18 j 14:28	11°♄55'00	
	106 Jun 13 j 02:23	30°♄		evening set	107 May 22 j 07:03	11°♄25'03	
min. Earth dist.	106 Jun 16 j 22:30	27°♄49'00	0.57332 AU	min. Earth dist.	107 May 29 j 11:26	8°♄09'04	0.55804 AU
inferior conj	106 Jun 19 j 21:59	25°♄50'45	-4°36'29	inferior conj	107 May 31 j 09:21	7°♄01'20	-3°46'04
minimum elong	106 Jun 19 j 18:39	25°♄56'18	4°36'10	minimum elong	107 May 31 j 02:18	7°♄11'46	3°44'26
morning rise	106 Jun 28 j 01:49	21°♄41'35		morning rise	107 Jun 09 j 00:18	3°♄06'13	
direct	106 Jun 30 j 15:48	21°♄22'25		direct	107 Jun 11 j 17:13	2°♄48'24	
morning max el	106 Jul 09 j 15:29	25°♄33'54	19°12'28	morning max el	107 Jun 22 j 06:25	7°♄41'09	20°20'12
	106 Jul 13 j 13:58	0°♄		asc. node	107 Jul 03 j 23:29	23°♄57'05	
asc. node	106 Jul 17 j 02:24	5°♄07'51			107 Jul 07 j 04:59	0°♄	
morning set	106 Jul 26 j 15:00	22°♄39'15		morning set	107 Jul 10 j 19:55	7°♄13'59	
	106 Jul 30 j 07:30	0°♄					
superior conj	106 Aug 03 j 20:57	8°♄58'42	1°46'46	superior conj	107 Jul 18 j 12:07	22°♄57'41	1°45'01
minimum elong	106 Aug 03 j 21:30	9°♄01'25	1°46'46	minimum elong	107 Jul 18 j 11:02	22°♄52'11	1°45'00
max. Earth dist.	106 Aug 10 j 08:25	21°♄10'11	1.38281 AU		107 Jul 22 j 00:55	0°♄	
evening rise	106 Aug 14 j 03:33	27°♄56'55		max. Earth dist.	107 Jul 23 j 13:55	2°♄59'41	1.36399 AU
	106 Aug 15 j 07:53	0°♄		evening rise	107 Jul 27 j 13:22	10°♄29'00	
desc. node	106 Aug 25 j 16:13	16°♄54'57			107 Aug 07 j 22:20	0°♄	
	106 Sep 03 j 13:12	0°♄		desc. node	107 Aug 12 j 13:14	7°♄09'57	
evening max el	106 Sep 18 j 20:23	18°♄46'39	24°50'54		107 Aug 29 j 23:45	0°♄	
retrograde	106 Sep 30 j 11:10	25°♄32'09		evening max el	107 Sep 01 j 07:48	2°♄23'11	26°00'28
				retrograde	107 Sep 13 j 19:38	9°♄30'05	

evening set	107 Sep 20 j 01:30	6°♄53'00		min. Earth dist.	108 Sep 06 j 15:54	16°♄30'47	0.65585 AU
min. Earth dist.	107 Sep 24 j 07:15	2°♄17'57	0.66612 AU	inferior conj	108 Sep 08 j 12:31	14°♄20'46	-2°23'17
inferior conj	107 Sep 25 j 15:39	0°♄36'17	-1°27'25	minimum elong	108 Sep 08 j 16:07	14°♄10'13	2°21'56
minimum elong	107 Sep 25 j 17:53	0°♄29'18	1°26'30	morning rise	108 Sep 14 j 15:30	8°♄40'39	
	107 Sep 26 j 03:16	30°♄		asc. node	108 Sep 15 j 19:44	8°♄11'26	
asc. node	107 Sep 29 j 22:39	25°♄50'07		direct	108 Sep 17 j 11:47	7°♄56'01	
morning rise	107 Oct 01 j 10:36	24°♄43'54		morning max el	108 Sep 24 j 01:53	11°♄31'51	18°20'44
direct	107 Oct 04 j 14:47	23°♄46'03			108 Oct 07 j 01:36	0°♄	
morning max el	107 Oct 11 j 13:08	27°♄39'10	19°00'27	morning set	108 Oct 13 j 07:05	10°♄07'56	
	107 Oct 13 j 16:07	0°♄		desc. node	108 Oct 25 j 09:33	29°♄36'09	
morning set	107 Nov 02 j 18:53	29°♄52'59			108 Oct 25 j 15:34	0°♄	
	107 Nov 02 j 20:41	0°♄					
desc. node	107 Nov 08 j 12:31	8°♄53'00		superior conj	108 Oct 28 j 09:02	4°♄18'53	-0°19'31
max. Earth dist.	107 Nov 17 j 14:54	23°♄10'14	1.44868 AU	minimum elong	108 Oct 28 j 06:28	4°♄08'48	0°19'10
				max. Earth dist.	108 Oct 30 j 09:28	7°♄29'43	1.45003 AU
superior conj	107 Nov 19 j 08:13	25°♄53'02	-1°07'14	evening rise	108 Nov 13 j 17:47	29°♄58'44	
minimum elong	107 Nov 19 j 00:24	25°♄22'11	1°06'21		108 Nov 13 j 18:07	0°♄	
	107 Nov 21 j 22:41	0°♄		greatest brilliancy	108 Nov 24 j 16:28	17°♄03'01	-0.8m
evening rise	107 Dec 04 j 12:07	20°♄10'55			108 Dec 03 j 15:09	0°♄	
	107 Dec 10 j 12:35	0°♄		evening max el	108 Dec 07 j 06:56	4°♄18'02	19°21'41
evening max el	107 Dec 24 j 22:12	20°♄50'16	18°39'30	asc. node	108 Dec 12 j 19:01	8°♄09'46	
asc. node	107 Dec 26 j 21:58	22°♄38'26		retrograde	108 Dec 14 j 10:17	8°♄24'39	
retrograde	107 Dec 31 j 14:09	24°♄33'16		evening set	108 Dec 17 j 19:43	7°♄17'25	
evening set	108 Jan 03 j 16:49	23°♄38'36		inferior conj	108 Dec 23 j 09:29	1°♄24'20	3°04'36
inferior conj	108 Jan 09 j 11:59	18°♄00'57	3°32'36	minimum elong	108 Dec 23 j 06:44	1°♄33'11	3°03'56
minimum elong	108 Jan 09 j 09:47	18°♄07'34	3°32'15		108 Dec 24 j 11:37	30°♄	
min. Earth dist.	108 Jan 11 j 09:25	15°♄44'33	0.64910 AU	min. Earth dist.	108 Dec 24 j 16:15	29°♄45'12	0.66163 AU
morning rise	108 Jan 15 j 02:19	11°♄53'14		morning rise	108 Dec 28 j 17:29	25°♄12'55	
direct	108 Jan 21 j 20:29	9°♄00'48		direct	109 Jan 04 j 00:37	22°♄26'04	
morning max el	108 Feb 04 j 04:13	16°♄46'03	27°07'47	morning max el	109 Jan 16 j 13:36	29°♄51'06	26°05'42
desc. node	108 Feb 04 j 11:44	17°♄05'00			109 Jan 16 j 17:07	0°♄	
	108 Feb 15 j 04:52	0°♄		desc. node	109 Jan 21 j 08:47	5°♄08'15	
	108 Mar 05 j 02:39	0°♄			109 Feb 08 j 02:30	0°♄	
morning set	108 Mar 10 j 17:54	10°♄32'03		morning set	109 Feb 21 j 18:38	23°♄29'12	
max. Earth dist.	108 Mar 15 j 08:27	19°♄41'39	1.33985 AU		109 Feb 25 j 05:12	0°♄	
				max. Earth dist.	109 Feb 25 j 17:33	0°♄59'43	1.35418 AU
superior conj	108 Mar 18 j 23:43	27°♄13'26	-0°49'39	superior conj	109 Mar 02 j 20:09	11°♄08'56	-1°15'26
minimum elong	108 Mar 19 j 02:06	27°♄25'59	0°49'11	minimum elong	109 Mar 02 j 23:37	11°♄26'33	1°14'54
	108 Mar 20 j 07:20	0°♄		evening rise	109 Mar 10 j 15:51	27°♄15'19	
asc. node	108 Mar 23 j 21:18	7°♄35'47		asc. node	109 Mar 10 j 18:21	27°♄28'07	
evening rise	108 Mar 26 j 08:29	12°♄47'27			109 Mar 12 j 00:10	0°♄	
	108 Apr 04 j 05:31	0°♄		evening max el	109 Mar 29 j 00:57	26°♄59'42	20°24'26
evening max el	108 Apr 15 j 20:12	15°♄49'50	21°46'06		109 Apr 01 j 19:26	0°♄	
retrograde	108 Apr 28 j 07:06	21°♄54'51		retrograde	109 Apr 08 j 20:22	2°♄11'42	
evening set	108 Apr 30 j 20:24	21°♄40'13		evening set	109 Apr 10 j 23:17	2°♄00'32	
desc. node	108 May 02 j 10:57	21°♄16'54			109 Apr 16 j 13:30	30°♄	
inferior conj	108 May 10 j 06:23	17°♄37'02	-2°11'20	desc. node	109 Apr 19 j 08:00	28°♄28'30	
minimum elong	108 May 10 j 00:30	17°♄45'18	2°09'23	inferior conj	109 Apr 20 j 01:38	28°♄02'49	-0°12'40
min. Earth dist.	108 May 10 j 00:16	17°♄45'36	0.55033 AU	minimum elong	109 Apr 20 j 01:03	28°♄03'41	0°12'27
morning rise	108 May 19 j 05:36	13°♄40'21		transit middle	109 Apr 20 j 01:03	28°♄03'41	0°12'27
direct	108 May 22 j 05:32	13°♄20'31		transit begin	109 Apr 19 j 22:32	28°♄07'21	
morning max el	108 Jun 03 j 10:13	19°♄05'12	21°46'44	transit end	109 Apr 20 j 03:33	28°♄00'01	
	108 Jun 12 j 06:17	0°♄		min. Earth dist.	109 Apr 21 j 13:46	27°♄10'07	0.55211 AU
asc. node	108 Jun 19 j 20:33	13°♄15'56		morning rise	109 Apr 29 j 01:24	23°♄46'15	
morning set	108 Jun 24 j 05:02	22°♄02'32		direct	109 May 02 j 17:39	23°♄16'53	
	108 Jun 27 j 23:54	0°♄		morning max el	109 May 16 j 04:47	29°♄51'35	23°25'43
superior conj	108 Jul 01 j 12:16	7°♄24'28	1°36'28		109 May 16 j 08:20	0°♄	
minimum elong	108 Jul 01 j 10:11	7°♄13'32	1°36'18	asc. node	109 Jun 05 j 06:41	0°♄	
max. Earth dist.	108 Jul 05 j 03:26	14°♄53'56	1.34827 AU	morning set	109 Jun 06 j 17:37	2°♄56'27	
evening rise	108 Jul 09 j 16:22	23°♄52'27			109 Jun 08 j 16:25	6°♄59'05	
	108 Jul 12 j 22:28	0°♄		superior conj	109 Jun 15 j 18:25	22°♄09'29	1°22'34
desc. node	108 Jul 29 j 10:16	27°♄02'53		minimum elong	109 Jun 15 j 15:56	21°♄56'11	1°22'14
	108 Jul 31 j 12:15	0°♄		max. Earth dist.	109 Jun 18 j 02:46	27°♄09'37	1.33638 AU
evening max el	108 Aug 13 j 19:48	15°♄56'25	26°53'23		109 Jun 19 j 11:12	0°♄	
retrograde	108 Aug 26 j 22:56	23°♄13'37		evening rise	109 Jun 23 j 07:57	7°♄53'46	
evening set	108 Sep 02 j 17:19	20°♄28'48					

	109 Jul 05 j 10:17	0°♌			110 Jun 29 j 07:43	0°♌	
desc. node	109 Jul 16 j 07:18	16°♌23'51		desc. node	110 Jul 03 j 04:20	4°♌59'29	
evening max el	109 Jul 27 j 07:23	29°♌14'58	27°22'09	evening max el	110 Jul 09 j 16:15	12°♌05'34	27°20'54
	109 Jul 28 j 02:38	0°♍		retrograde	110 Jul 23 j 11:14	19°♌23'15	
retrograde	109 Aug 09 j 20:19	6°♍34'09		evening set	110 Jul 30 j 15:52	16°♌54'26	
evening set	109 Aug 16 j 23:19	3°♍51'09		min. Earth dist.	110 Aug 03 j 05:46	14°♌00'34	0.62476 AU
min. Earth dist.	109 Aug 20 j 15:57	0°♍28'29	0.64202 AU	inferior conj	110 Aug 06 j 04:02	11°♌14'31	-4°02'13
	109 Aug 21 j 02:53	30°♍♌		minimum elong	110 Aug 06 j 08:44	11°♌03'21	4°01'11
inferior conj	109 Aug 23 j 01:36	27°♌55'39	-3°16'11	morning rise	110 Aug 13 j 02:55	6°♌09'17	
minimum elong	109 Aug 23 j 06:13	27°♌43'23	3°14'46	direct	110 Aug 15 j 14:54	5°♌41'12	
morning rise	109 Aug 29 j 14:01	22°♌31'14		asc. node	110 Aug 20 j 13:52	7°♌34'07	
direct	109 Sep 01 j 04:55	21°♌56'18		morning max el	110 Aug 22 j 08:44	9°♌07'05	17°53'35
asc. node	109 Sep 02 j 16:49	22°♌07'49			110 Sep 05 j 02:09	0°♍	
morning max el	109 Sep 07 j 17:20	25°♌23'02	17°58'07	morning set	110 Sep 07 j 12:42	4°♍21'44	
	109 Sep 11 j 13:34	0°♍					
morning set	109 Sep 24 j 22:52	21°♍43'05		superior conj	110 Sep 18 j 16:46	23°♍57'23	1°06'05
	109 Sep 29 j 20:03	0°♎		minimum elong	110 Sep 18 j 21:45	24°♍18'31	1°05'29
					110 Sep 22 j 07:05	0°♎	
superior conj	109 Oct 07 j 23:42	13°♎28'34	0°28'12	max. Earth dist.	110 Sep 25 j 18:21	5°♎42'03	1.43168 AU
minimum elong	109 Oct 08 j 02:48	13°♎41'12	0°27'47	desc. node	110 Sep 29 j 03:37	11°♎09'12	
desc. node	109 Oct 12 j 06:35	20°♎22'28		evening rise	110 Oct 03 j 13:01	18°♎04'34	
max. Earth dist.	109 Oct 13 j 03:39	21°♎46'19	1.44411 AU		110 Oct 11 j 07:58	0°♏	
	109 Oct 18 j 08:55	0°♏			110 Nov 02 j 04:31	0°♏	
evening rise	109 Oct 24 j 05:08	9°♏03'53		evening max el	110 Nov 03 j 08:50	1°♏14'51	21°28'36
	109 Nov 07 j 00:55	0°♏		retrograde	110 Nov 12 j 04:58	6°♏30'13	
evening max el	109 Nov 20 j 10:48	17°♏46'23	20°19'01	evening set	110 Nov 16 j 09:35	4°♏52'21	
retrograde	109 Nov 28 j 07:54	22°♏24'33		asc. node	110 Nov 16 j 13:07	4°♏45'18	
asc. node	109 Nov 29 j 16:04	22°♏14'20			110 Nov 20 j 18:03	30°♏♏	
evening set	109 Dec 02 j 01:56	21°♏02'53		inferior conj	110 Nov 21 j 18:10	28°♏37'16	1°43'15
inferior conj	109 Dec 07 j 12:16	14°♏57'08	2°27'24	minimum elong	110 Nov 21 j 16:02	28°♏44'41	1°42'27
minimum elong	109 Dec 07 j 09:35	15°♏06'12	2°26'33	min. Earth dist.	110 Nov 22 j 00:07	28°♏16'43	0.67522 AU
min. Earth dist.	109 Dec 08 j 05:52	13°♏57'43	0.67025 AU	morning rise	110 Nov 26 j 22:19	22°♏24'13	
morning rise	109 Dec 12 j 17:02	8°♏44'00		direct	110 Dec 01 j 23:56	20°♏13'53	
direct	109 Dec 18 j 09:57	6°♏12'39		morning max el	110 Dec 12 j 07:08	26°♏21'28	23°18'23
morning max el	109 Dec 29 j 22:01	13°♏03'51	24°45'54		110 Dec 15 j 15:32	0°♏	
desc. node	110 Jan 08 j 05:49	24°♏03'05		desc. node	110 Dec 26 j 02:50	13°♏34'50	
	110 Jan 12 j 15:05	0°♐			111 Jan 06 j 05:33	0°♐	
	110 Jan 31 j 21:41	0°♐		morning set	111 Jan 16 j 05:49	16°♐07'40	
morning set	110 Feb 04 j 00:43	5°♐26'32		max. Earth dist.	111 Jan 20 j 11:49	23°♐23'28	1.39352 AU
max. Earth dist.	110 Feb 07 j 16:34	12°♐02'20	1.37260 AU		111 Jan 24 j 05:28	0°♐	
superior conj	110 Feb 14 j 06:22	24°♐29'25	-1°38'09	superior conj	111 Jan 28 j 02:14	7°♐03'49	-1°54'59
minimum elong	110 Feb 14 j 10:16	24°♐48'25	1°37'43	minimum elong	111 Jan 28 j 05:17	7°♐17'55	1°54'48
	110 Feb 17 j 01:32	0°♑		evening rise	111 Feb 06 j 11:27	24°♐57'16	
evening rise	110 Feb 22 j 17:46	11°♑21'09			111 Feb 09 j 02:38	0°♑	
asc. node	110 Feb 25 j 15:24	17°♑04'48		asc. node	111 Feb 12 j 12:26	6°♑19'35	
	110 Mar 04 j 20:41	0°♑		evening max el	111 Feb 22 j 18:24	21°♑10'26	18°36'37
evening max el	110 Mar 11 j 16:55	8°♑47'41	19°20'35	retrograde	111 Mar 02 j 13:29	24°♑58'50	
retrograde	110 Mar 20 j 19:53	13°♑10'58		evening set	111 Mar 04 j 22:41	24°♑38'44	
evening set	110 Mar 23 j 00:08	12°♑57'05		inferior conj	111 Mar 12 j 12:46	20°♑12'12	2°53'05
inferior conj	110 Mar 31 j 09:09	8°♑48'54	1°36'04	minimum elong	111 Mar 12 j 16:55	20°♑04'10	2°52'08
minimum elong	110 Mar 31 j 12:46	8°♑42'56	1°34'55	min. Earth dist.	111 Mar 15 j 22:09	17°♑36'30	0.58040 AU
min. Earth dist.	110 Apr 03 j 04:30	6°♑58'22	0.56293 AU	morning rise	111 Mar 20 j 08:19	14°♑52'10	
desc. node	110 Apr 06 j 05:01	5°♑12'18		desc. node	111 Mar 24 j 02:03	13°♑38'16	
morning rise	110 Apr 08 j 22:37	4°♑00'16		direct	111 Mar 26 j 03:38	13°♑27'27	
direct	110 Apr 13 j 15:46	3°♑09'27		morning max el	111 Apr 09 j 12:16	21°♑02'45	26°30'22
morning max el	110 Apr 27 j 19:27	10°♑21'30	25°05'25		111 Apr 17 j 06:37	0°♑	
	110 May 12 j 15:19	0°♒			111 May 05 j 06:39	0°♒	
morning set	110 May 24 j 04:25	21°♒58'14		morning set	111 May 08 j 15:17	6°♒53'06	
asc. node	110 May 24 j 14:40	22°♒52'24		asc. node	111 May 11 j 11:42	12°♒57'44	
	110 May 27 j 22:14	0°♓					
				superior conj	111 May 15 j 15:48	22°♒04'35	0°42'52
superior conj	110 May 31 j 04:15	7°♓05'25	1°04'25	minimum elong	111 May 15 j 14:02	21°♒54'54	0°42'31
minimum elong	110 May 31 j 01:55	6°♓52'40	1°04'00	max. Earth dist.	111 May 15 j 21:47	22°♒37'26	1.32400 AU
max. Earth dist.	110 Jun 01 j 10:02	9°♓47'24	1.32832 AU		111 May 19 j 06:50	0°♓	
evening rise	110 Jun 07 j 08:26	22°♓21'44		evening rise	111 May 22 j 14:48	7°♓05'53	
	110 Jun 11 j 04:13	0°♔			111 Jun 03 j 16:44	0°♔	

desc. node	111 Jun 20 j 01:21	22°☿29'45		112 May 09 j 22:32	0°♊	
evening max el	111 Jun 21 j 19:42	24°☿15'05	26°46'44	112 May 28 j 11:45	0°☿	
	111 Jun 29 j 16:53	0°♊		evening max el	112 Jun 02 j 16:23	5°☿39'12 25°41'40
retrograde	111 Jul 05 j 18:57	1°♊30'44		desc. node	112 Jun 05 j 22:22	8°☿27'52
	111 Jul 11 j 16:21	30°☿		retrograde	112 Jun 16 j 17:38	12°☿50'40
evening set	111 Jul 12 j 14:33	29°☿29'52		evening set	112 Jun 22 j 15:07	11°☿27'59
min. Earth dist.	111 Jul 16 j 09:19	26°☿51'22	0.60485 AU	min. Earth dist.	112 Jun 27 j 04:43	8°☿46'48 0.58429 AU
inferior conj	111 Jul 19 j 16:19	24°☿07'46	-4°35'16	inferior conj	112 Jun 30 j 10:58	6°☿26'10 -4°45'43
minimum elong	111 Jul 19 j 19:29	24°☿01'11	4°34'56	minimum elong	112 Jun 30 j 10:26	6°☿27'09 4°45'43
morning rise	111 Jul 27 j 02:18	19°☿24'25		morning rise	112 Jul 08 j 08:15	2°☿05'08
direct	111 Jul 29 j 13:37	19°☿01'01		direct	112 Jul 10 j 20:44	1°☿44'51
morning max el	111 Aug 05 j 21:01	22°☿35'33	18°08'08	morning max el	112 Jul 19 j 03:06	5°☿39'25 18°42'53
asc. node	111 Aug 07 j 10:54	24°☿15'27		asc. node	112 Jul 24 j 07:56	11°☿56'41
	111 Aug 11 j 16:48	0°♊			112 Aug 03 j 14:24	0°♊
morning set	111 Aug 21 j 18:40	17°♊46'44		morning set	112 Aug 04 j 12:09	1°♊45'38
	111 Aug 28 j 08:16	0°♊				
superior conj	111 Aug 31 j 12:13	5°♊44'22	1°31'02	superior conj	112 Aug 13 j 04:50	18°♊34'19 1°43'57
minimum elong	111 Aug 31 j 16:05	6°♊01'39	1°30'42	minimum elong	112 Aug 13 j 06:35	18°♊42'33 1°43'53
max. Earth dist.	111 Sep 08 j 03:14	18°♊59'29	1.41431 AU	max. Earth dist.	112 Aug 19 j 10:17	0°♊
evening rise	111 Sep 13 j 10:50	27°♊45'31		evening rise	112 Aug 20 j 07:06	1°♊32'17 1.39442 AU
	111 Sep 14 j 20:18	0°♊		evening rise	112 Aug 24 j 08:25	8°♊33'25
desc. node	111 Sep 16 j 00:39	1°♊52'50		desc. node	112 Sep 01 j 21:41	22°♊29'15
	111 Oct 05 j 00:26	0°♊			112 Sep 06 j 19:34	0°♊
evening max el	111 Oct 17 j 01:25	14°♊44'39	22°46'19	evening max el	112 Sep 28 j 14:24	28°♊17'44 24°06'30
retrograde	111 Oct 26 j 23:56	20°♊38'57			112 Sep 30 j 09:34	0°♊
evening set	111 Oct 31 j 16:57	18°♊43'38		retrograde	112 Oct 09 j 15:25	4°♊46'54
asc. node	111 Nov 03 j 10:07	15°♊53'23		evening set	112 Oct 14 j 22:23	2°♊33'55
inferior conj	111 Nov 06 j 01:18	12°♊22'58	0°53'52		112 Oct 17 j 09:51	30°☿
minimum elong	111 Nov 06 j 00:05	12°♊27'12	0°53'21	min. Earth dist.	112 Oct 19 j 16:53	27°☿02'31 0.67525 AU
min. Earth dist.	111 Nov 05 j 20:37	12°♊39'11	0.67682 AU	inferior conj	112 Oct 20 j 07:55	26°☿11'43 0°00'40
morning rise	111 Nov 11 j 07:06	6°♊12'11		minimum elong	112 Oct 20 j 07:53	26°☿11'47 0°00'39
direct	111 Nov 15 j 17:54	4°♊24'23		transit middle	112 Oct 20 j 07:53	26°☿11'47 0°00'39
morning max el	111 Nov 24 j 20:06	9°♊45'45	21°52'22	transit begin	112 Oct 20 j 05:10	26°☿21'00
	111 Dec 10 j 13:18	0°☿		transit end	112 Oct 20 j 10:37	26°☿02'34
desc. node	111 Dec 12 j 23:52	3°☿33'15		asc. node	112 Oct 20 j 07:09	26°☿14'18
morning set	111 Dec 27 j 05:45	25°☿24'44		morning rise	112 Oct 25 j 17:22	20°☿05'44
	111 Dec 30 j 01:58	0°☿		direct	112 Oct 29 j 14:46	18°☿39'29
max. Earth dist.	112 Jan 02 j 10:20	5°☿30'56	1.41435 AU	morning max el	112 Nov 06 j 15:43	23°☿19'05 20°34'56
					112 Nov 12 j 08:14	0°♊
superior conj	112 Jan 10 j 02:43	18°☿39'56	-2°02'09	desc. node	112 Nov 28 j 20:54	23°♊50'29
minimum elong	112 Jan 10 j 02:53	18°☿40'39	2°02'08		112 Dec 02 j 21:33	0°☿
	112 Jan 16 j 10:13	0°☿		morning set	112 Dec 05 j 06:20	3°☿39'32
evening rise	112 Jan 20 j 17:33	7°☿55'50		max. Earth dist.	112 Dec 14 j 16:18	18°☿33'11 1.43222 AU
asc. node	112 Jan 30 j 09:28	25°☿05'16				
	112 Feb 02 j 16:43	0°☿		superior conj	112 Dec 21 j 02:32	29°☿05'44 -1°54'59
evening max el	112 Feb 06 j 02:34	4°☿00'24	18°12'44	minimum elong	112 Dec 20 j 21:57	28°☿46'35 1°54'45
retrograde	112 Feb 13 j 01:09	7°☿29'46			112 Dec 21 j 15:32	0°☿
evening set	112 Feb 15 j 15:21	7°☿01'22		evening rise	113 Jan 02 j 08:00	20°☿08'04
inferior conj	112 Feb 22 j 13:02	2°☿14'03	3°35'31		113 Jan 07 j 22:56	0°☿
minimum elong	112 Feb 22 j 15:25	2°☿08'43	3°35'14	asc. node	113 Jan 16 j 06:29	13°☿12'22
	112 Feb 25 j 00:42	30°☿		evening max el	113 Jan 19 j 14:19	17°☿08'36 18°08'24
min. Earth dist.	112 Feb 25 j 21:12	29°☿15'36	0.60115 AU	retrograde	113 Jan 26 j 03:07	20°☿33'31
morning rise	112 Feb 29 j 13:25	26°☿31'51		evening set	113 Jan 28 j 21:57	19°☿55'34
direct	112 Mar 07 j 04:05	24°☿29'04		inferior conj	113 Feb 04 j 06:48	14°☿47'24 3°49'46
desc. node	112 Mar 09 j 23:03	24°☿49'55		minimum elong	113 Feb 04 j 06:57	14°☿47'02 3°49'46
	112 Mar 18 j 23:18	0°☿		min. Earth dist.	113 Feb 07 j 04:02	11°☿51'07 0.62190 AU
morning max el	112 Mar 21 j 10:41	2°☿16'45	27°26'53	morning rise	113 Feb 10 j 14:47	8°☿51'37
	112 Apr 10 j 14:19	0°☿		direct	113 Feb 17 j 14:13	6°☿18'25
morning set	112 Apr 21 j 23:19	21°☿37'28		desc. node	113 Feb 24 j 20:05	8°☿39'34
	112 Apr 25 j 22:07	0°☿		morning max el	113 Mar 03 j 14:54	14°☿10'37 27°47'31
asc. node	112 Apr 27 j 08:45	3°☿07'59			113 Mar 16 j 09:48	0°☿
max. Earth dist.	112 Apr 28 j 10:17	5°☿27'32	1.32335 AU	morning set	113 Apr 03 j 01:23	0°☿
				max. Earth dist.	113 Apr 06 j 02:29	6°☿04'01
superior conj	112 Apr 29 j 03:22	7°☿01'06	0°18'43		113 Apr 11 j 19:48	18°☿04'31 1.32647 AU
minimum elong	112 Apr 29 j 02:32	6°☿56'31	0°18'33	superior conj	113 Apr 13 j 13:16	21°☿48'47 -0°07'18
evening rise	112 May 06 j 00:48	21°☿58'33		minimum elong	113 Apr 13 j 13:37	21°☿50'38 0°07'12

behind sun begin	113 Apr 13 j 09:00	21° Υ 25'34		superior conj	114 Mar 28 j 19:42	6° Υ 21'25	-0°34'12
behind sun end	113 Apr 13 j 18:14	22° Υ 15'44		minimum elong	114 Mar 28 j 21:21	6° Υ 30'12	0°33'50
asc. node	113 Apr 14 j 05:48	23° Υ 18'39		asc. node	114 Apr 01 j 02:52	13° Υ 25'30	
	113 Apr 17 j 07:34	0° ♄		evening rise	114 Apr 04 j 23:58	21° Υ 41'34	
evening rise	113 Apr 20 j 12:28	6° ♄ 52'38			114 Apr 09 j 01:21	0° ♄	
	113 May 02 j 17:16	0° ♄		evening max el	114 Apr 26 j 23:16	27° ♄ 00'18	22°38'59
evening max el	113 May 15 j 07:51	16° ♄ 26'43	24°14'29		114 Apr 30 j 12:19	0° ♄	
desc. node	113 May 23 j 19:21	22° ♄ 19'34		retrograde	114 May 10 j 02:50	3° ♄ 30'30	
retrograde	113 May 29 j 04:40	23° ♄ 25'40		desc. node	114 May 10 j 16:23	3° ♄ 29'47	
evening set	113 Jun 02 j 17:16	22° ♄ 40'05		evening set	114 May 13 j 06:17	3° ♄ 08'49	
min. Earth dist.	113 Jun 08 j 19:06	19° ♄ 40'27	0.56608 AU		114 May 20 j 16:14	30° ♄	
inferior conj	113 Jun 11 j 09:37	18° ♄ 02'23	-4°20'52	min. Earth dist.	114 May 21 j 07:29	29° ♄ 38'32	0.55366 AU
minimum elong	113 Jun 11 j 04:21	18° ♄ 10'43	4°20'03	inferior conj	114 May 22 j 13:43	28° ♄ 55'26	-3°10'41
morning rise	113 Jun 19 j 18:13	14° ♄ 00'09		minimum elong	114 May 22 j 06:26	29° ♄ 05'50	3°08'39
direct	113 Jun 22 j 09:16	13° ♄ 41'43		morning rise	114 May 31 j 08:46	25° ♄ 02'05	
morning max el	113 Jul 02 j 00:08	18° ♄ 09'33	19°38'41	direct	114 Jun 03 j 04:10	24° ♄ 43'50	
	113 Jul 10 j 23:08	0° ♄			114 Jun 14 j 11:11	0° ♄	
asc. node	113 Jul 11 j 05:01	0° ♄ 24'39		morning max el	114 Jun 14 j 10:08	29° ♄ 57'35	20°55'02
morning set	113 Jul 19 j 13:45	16° ♄ 09'59		asc. node	114 Jun 28 j 02:06	19° ♄ 27'28	
	113 Jul 26 j 10:30	0° ♄			114 Jul 03 j 10:42	0° ♄	
				morning set	114 Jul 03 j 20:45	0° ♄ 51'35	
superior conj	113 Jul 27 j 13:10	2° ♄ 12'17	1°46'58				
minimum elong	113 Jul 27 j 12:57	2° ♄ 11'14	1°46'58	superior conj	114 Jul 11 j 08:35	16° ♄ 24'16	1°42'09
max. Earth dist.	113 Aug 02 j 10:46	13° ♄ 33'08	1.37457 AU	minimum elong	114 Jul 11 j 07:00	16° ♄ 16'06	1°42'03
evening rise	113 Aug 06 j 06:14	20° ♄ 30'53		max. Earth dist.	114 Jul 15 j 19:40	25° ♄ 23'46	1.35688 AU
	113 Aug 11 j 17:38	0° ♄			114 Jul 18 j 04:28	0° ♄	
desc. node	113 Aug 19 j 18:43	12° ♄ 54'04		evening rise	114 Jul 19 j 23:58	3° ♄ 26'22	
	113 Aug 31 j 19:32	0° ♄			114 Aug 04 j 15:37	0° ♄	
evening max el	113 Sep 11 j 02:11	11° ♄ 55'04	25°22'04	desc. node	114 Aug 06 j 15:45	3° ♄ 00'47	
retrograde	113 Sep 23 j 02:32	18° ♄ 50'26		evening max el	114 Aug 24 j 13:58	25° ♄ 31'34	26°25'23
evening set	113 Sep 29 j 00:11	16° ♄ 21'13			114 Aug 29 j 23:12	0° ♄	
min. Earth dist.	113 Oct 03 j 10:30	11° ♄ 25'03	0.67049 AU	retrograde	114 Sep 06 j 08:39	2° ♄ 43'13	
inferior conj	113 Oct 04 j 12:15	10° ♄ 01'33	-0°54'55	evening set	114 Sep 12 j 20:19	0° ♄ 01'54	
minimum elong	113 Oct 04 j 13:38	9° ♄ 57'04	0°54'20		114 Sep 12 j 21:13	30° ♄	
asc. node	113 Oct 07 j 04:11	6° ♄ 44'27		min. Earth dist.	114 Sep 16 j 22:58	25° ♄ 42'44	0.66230 AU
morning rise	113 Oct 10 j 03:15	4° ♄ 03'17		inferior conj	114 Sep 18 j 12:26	23° ♄ 48'40	-1°51'16
direct	113 Oct 13 j 13:10	2° ♄ 55'54		minimum elong	114 Sep 18 j 15:17	23° ♄ 40'01	1°50'08
morning max el	113 Oct 20 j 19:06	7° ♄ 02'49	19°30'34	morning rise	114 Sep 24 j 10:38	18° ♄ 01'11	
	113 Nov 06 j 10:44	0° ♄		asc. node	114 Sep 24 j 01:16	18° ♄ 15'19	
morning set	113 Nov 14 j 05:15	11° ♄ 58'49		direct	114 Sep 27 j 11:15	17° ♄ 09'18	
desc. node	113 Nov 15 j 17:59	14° ♄ 21'20		morning max el	114 Oct 04 j 05:06	20° ♄ 53'30	18°41'30
	113 Nov 25 j 17:59	0° ♄			114 Oct 11 j 08:05	0° ♄	
max. Earth dist.	113 Nov 27 j 05:53	2° ♄ 21'56	1.44471 AU	morning set	114 Oct 25 j 00:56	21° ♄ 24'31	
					114 Oct 30 j 10:51	0° ♄	
superior conj	113 Nov 30 j 23:47	8° ♄ 19'44	-1°29'47	desc. node	114 Nov 02 j 15:02	5° ♄ 00'53	
minimum elong	113 Nov 30 j 15:33	7° ♄ 46'48	1°29'00				
	113 Dec 14 j 05:40	0° ♄		superior conj	114 Nov 10 j 02:24	16° ♄ 46'28	-0°47'48
evening rise	113 Dec 15 j 02:32	1° ♄ 27'14		minimum elong	114 Nov 09 j 20:18	16° ♄ 22'30	0°47'02
	114 Jan 02 j 15:59	0° ♄		max. Earth dist.	114 Nov 09 j 23:53	16° ♄ 36'36	1.45025 AU
evening max el	114 Jan 03 j 02:51	0° ♄ 28'18	18°22'54		114 Nov 18 j 11:46	0° ♄	
asc. node	114 Jan 03 j 03:31	0° ♄ 29'59		evening rise	114 Nov 25 j 21:46	11° ♄ 47'55	
retrograde	114 Jan 09 j 15:11	4° ♄ 01'23		greatest brilliancy	114 Dec 03 j 09:17	23° ♄ 45'34	-0.8m
evening set	114 Jan 12 j 14:49	3° ♄ 12'59			114 Dec 07 j 08:28	0° ♄	
	114 Jan 16 j 13:19	30° ♄		evening max el	114 Dec 17 j 13:32	13° ♄ 53'54	18°55'23
inferior conj	114 Jan 18 j 14:08	27° ♄ 45'17	3°43'18	asc. node	114 Dec 21 j 00:32	16° ♄ 44'29	
minimum elong	114 Jan 18 j 12:35	27° ♄ 49'44	3°43'09	retrograde	114 Dec 24 j 09:25	17° ♄ 45'55	
min. Earth dist.	114 Jan 20 j 20:21	25° ♄ 10'55	0.64024 AU	evening set	114 Dec 27 j 14:49	16° ♄ 45'57	
morning rise	114 Jan 24 j 09:46	21° ♄ 41'05		inferior conj	115 Jan 02 j 07:23	11° ♄ 01'06	3°22'00
direct	114 Jan 31 j 08:03	18° ♄ 51'38		minimum elong	115 Jan 02 j 04:52	11° ♄ 08'55	3°21'30
desc. node	114 Feb 11 j 17:08	24° ♄ 33'30		min. Earth dist.	115 Jan 03 j 22:18	9° ♄ 00'18	0.65492 AU
morning max el	114 Feb 13 j 23:16	26° ♄ 41'21	27°31'40	morning rise	115 Jan 07 j 18:37	4° ♄ 51'33	
	114 Feb 17 j 01:59	0° ♄		direct	115 Jan 14 j 08:30	2° ♄ 00'24	
	114 Mar 10 j 00:08	0° ♄		morning max el	115 Jan 27 j 09:08	9° ♄ 38'21	26°44'14
morning set	114 Mar 20 j 22:13	20° ♄ 04'26		desc. node	115 Jan 29 j 14:13	11° ♄ 57'39	
	114 Mar 25 j 19:25	0° ♄			115 Feb 12 j 10:38	0° ♄	
max. Earth dist.	114 Mar 25 j 22:28	0° ♄ 15'56	1.33372 AU		115 Mar 02 j 10:51	0° ♄	
				morning set	115 Mar 04 j 07:12	3° ♄ 28'47	

max. Earth dist.	115 Mar 08 j 14:50	11° H 54'33	1.34540 AU		116 Feb 05 j 18:16	0° \approx	
				morning set	116 Feb 15 j 00:43	16° \approx 02'30	
superior conj	115 Mar 12 j 20:33	20° H 32'44	-1°00'49	max. Earth dist.	116 Feb 18 j 19:14	23° \approx 02'48	1.36155 AU
minimum elong	115 Mar 12 j 23:26	20° H 47'44	1°00'19		116 Feb 22 j 09:43	0° H	
	115 Mar 17 j 08:56	0° Y					
asc. node	115 Mar 18 j 23:55	3° Y 24'33		superior conj	116 Feb 24 j 13:00	4° H 13'57	-1°25'36
evening rise	115 Mar 20 j 09:28	6° Y 19'21		minimum elong	116 Feb 24 j 16:46	4° H 32'45	1°25'05
	115 Apr 02 j 10:08	0° B		evening rise	116 Mar 03 j 14:47	20° H 38'19	
evening max el	115 Apr 08 j 21:42	7° B 50'24	21°09'23	asc. node	116 Mar 04 j 20:56	23° H 10'32	
retrograde	115 Apr 20 j 16:48	13° B 34'02			116 Mar 08 j 08:25	0° Y	
evening set	115 Apr 22 j 23:45	13° B 21'50		evening max el	116 Mar 21 j 07:11	19° Y 15'39	19°54'54
desc. node	115 Apr 27 j 13:24	11° B 53'17		retrograde	116 Mar 31 j 09:09	24° Y 06'01	
inferior conj	115 May 02 j 08:07	9° B 22'44	-1°21'56	evening set	116 Apr 02 j 11:28	23° Y 54'23	
minimum elong	115 May 02 j 04:16	9° B 28'11	1°20'35	inferior conj	116 Apr 11 j 07:07	19° Y 53'46	0°36'25
min. Earth dist.	115 May 02 j 20:19	9° B 05'32	0.54984 AU	minimum elong	116 Apr 11 j 08:43	19° Y 51'20	0°35'52
morning rise	115 May 11 j 08:53	5° B 20'08		desc. node	116 Apr 13 j 10:26	18° Y 35'27	
direct	115 May 14 j 14:16	4° B 57'38		min. Earth dist.	116 Apr 13 j 10:28	18° Y 35'25	0.55566 AU
morning max el	115 May 27 j 09:38	11° B 04'05	22°28'02	morning rise	116 Apr 20 j 03:42	15° Y 23'51	
	115 Jun 10 j 05:31	0° II		direct	116 Apr 24 j 05:34	14° Y 47'07	
asc. node	115 Jun 14 j 23:11	8° II 56'19		morning max el	116 May 08 j 01:56	21° Y 40'21	24°08'59
morning set	115 Jun 18 j 07:04	15° II 44'15			116 May 15 j 07:44	0° B	
				asc. node	116 May 31 j 20:14	28° B 43'29	
superior conj	115 Jun 25 j 11:38	0° B 59'49	1°31'10		116 Jun 01 j 10:54	0° II	
minimum elong	115 Jun 25 j 09:18	0° B 47'31	1°30'55	morning set	116 Jun 01 j 18:51	0° II 41'49	
	115 Jun 25 j 00:20	0° B					
max. Earth dist.	115 Jun 28 j 13:22	7° B 25'46	1.34268 AU	superior conj	116 Jun 08 j 19:34	15° II 49'51	1°15'20
evening rise	115 Jul 03 j 08:48	17° B 06'57		minimum elong	116 Jun 08 j 17:06	15° II 36'27	1°14'57
	115 Jul 10 j 06:35	0° O		max. Earth dist.	116 Jun 10 j 16:04	19° II 49'17	1.33240 AU
desc. node	115 Jul 24 j 12:45	22° O 41'18			116 Jun 15 j 12:44	0° B	
	115 Jul 30 j 00:27	0° M		evening rise	116 Jun 16 j 04:31	1° B 20'07	
evening max el	115 Aug 07 j 01:46	8° M 59'07	27°08'49		116 Jul 02 j 04:56	0° O	
retrograde	115 Aug 20 j 09:29	16° M 18'10		desc. node	116 Jul 10 j 09:46	11° O 44'36	
evening set	115 Aug 27 j 08:21	13° M 32'22		evening max el	116 Jul 19 j 12:19	22° O 06'29	27°25'36
min. Earth dist.	115 Aug 31 j 04:02	9° M 50'10	0.65048 AU	retrograde	116 Aug 02 j 04:30	29° O 26'15	
inferior conj	115 Sep 02 j 06:17	7° M 29'16	-2°46'16	evening set	116 Aug 09 j 09:09	26° O 47'26	
minimum elong	115 Sep 02 j 10:23	7° M 17'43	2°44'50	min. Earth dist.	116 Aug 12 j 23:54	23° O 38'14	0.63499 AU
morning rise	115 Sep 08 j 13:10	1° M 55'44		inferior conj	116 Aug 15 j 15:12	20° O 57'57	-3°36'53
asc. node	115 Sep 10 j 22:21	1° M 16'22		minimum elong	116 Aug 15 j 20:00	20° O 45'44	3°35'35
direct	115 Sep 11 j 06:50	1° M 15'42		morning rise	116 Aug 22 j 07:59	15° O 41'26	
morning max el	115 Sep 17 j 19:24	4° M 46'28	18°08'58	direct	116 Aug 24 j 21:12	15° O 09'55	
	115 Oct 04 j 16:51	0° A		asc. node	116 Aug 27 j 19:25	15° O 52'02	
morning set	115 Oct 06 j 01:19	2° A 14'51		morning max el	116 Aug 31 j 11:13	18° O 35'33	17°53'57
					116 Sep 08 j 18:33	0° M	
superior conj	115 Oct 20 j 06:42	25° A 24'19	0°01'29	morning set	116 Sep 17 j 03:17	14° M 19'13	
minimum elong	115 Oct 20 j 06:53	25° A 25'03	0°01'28		116 Sep 26 j 06:29	0° A	
behind sun begin	115 Oct 19 j 20:05	24° A 42'01					
behind sun end	115 Oct 20 j 17:41	26° A 08'01		superior conj	116 Sep 29 j 08:02	5° A 06'32	0°45'46
desc. node	115 Oct 20 j 12:03	25° A 45'38		minimum elong	116 Sep 29 j 12:26	5° A 24'41	0°45'11
	115 Oct 23 j 04:14	0° M		max. Earth dist.	116 Oct 05 j 11:09	15° A 05'00	1.43949 AU
max. Earth dist.	115 Oct 23 j 18:37	0° M 56'47	1.44838 AU	desc. node	116 Oct 06 j 09:05	16° A 32'40	
evening rise	115 Nov 05 j 18:25	21° M 14'07			116 Oct 14 j 23:00	0° M	
	115 Nov 11 j 10:23	0° A		evening rise	116 Oct 15 j 02:03	0° M 11'46	
greatest brilliancy	115 Nov 18 j 15:21	10° A 59'51	-0.7m		116 Nov 04 j 04:09	0° A	
evening max el	115 Nov 30 j 20:15	27° A 21'24	19°44'19	evening max el	116 Nov 12 j 21:40	10° A 50'04	20°47'20
	115 Dec 03 j 20:05	0° B		retrograde	116 Nov 21 j 04:13	15° A 43'51	
asc. node	115 Dec 07 j 21:35	1° B 40'17		asc. node	116 Nov 23 j 18:38	15° A 05'32	
retrograde	115 Dec 08 j 06:35	1° B 41'04		evening set	116 Nov 25 j 02:24	14° A 15'44	
evening set	115 Dec 11 j 19:22	0° B 27'59		inferior conj	116 Nov 30 j 11:49	8° A 05'40	2°09'27
	115 Dec 12 j 10:21	30° R A		minimum elong	116 Nov 30 j 09:18	8° A 14'14	2°08'35
inferior conj	115 Dec 17 j 07:26	24° A 28'55	2°49'48	min. Earth dist.	116 Dec 01 j 00:23	7° A 22'42	0.67280 AU
minimum elong	115 Dec 17 j 04:38	24° A 38'07	2°49'01	morning rise	116 Dec 05 j 16:00	1° A 52'05	
min. Earth dist.	115 Dec 18 j 08:23	23° A 06'37	0.66572 AU		116 Dec 08 j 12:39	30° R M	
morning rise	115 Dec 22 j 13:41	18° A 16'17		direct	116 Dec 11 j 02:28	29° M 29'00	
direct	115 Dec 28 j 14:52	15° A 35'12			116 Dec 13 j 20:20	0° A	
morning max el	116 Jan 09 j 18:16	22° A 48'09	25°33'19	morning max el	116 Dec 22 j 02:36	6° A 03'01	24°08'54
desc. node	116 Jan 16 j 11:15	0° B 24'56		desc. node	117 Jan 02 j 08:17	19° A 37'13	
	116 Jan 16 j 03:12	0° B			117 Jan 09 j 16:16	0° B	

morning set	117 Jan 26 j 20:55	27° Z 29'22		desc. node	117 Dec 20 j 05:19	9° Z 21'20	
	117 Jan 28 j 07:30	0° \approx			118 Jan 02 j 21:12	0° Z	
max. Earth dist.	117 Jan 30 j 15:07	4° \approx 06'26	1.38135 AU	morning set	118 Jan 07 j 13:43	7° Z 34'05	
				max. Earth dist.	118 Jan 12 j 10:54	15° Z 44'27	1.40267 AU
superior conj	117 Feb 06 j 17:39	17° \approx 16'08	-1°46'13	superior conj	118 Jan 20 j 05:58	29° Z 27'32	-1°59'28
minimum elong	117 Feb 06 j 21:23	17° \approx 33'58	1°45'53	minimum elong	118 Jan 20 j 08:04	29° Z 37'02	1°59'23
	117 Feb 13 j 06:24	0° X			118 Jan 20 j 13:07	0° \approx	
evening rise	117 Feb 15 j 13:31	4° X 31'58		evening rise	118 Jan 30 j 02:42	17° \approx 52'48	
asc. node	117 Feb 19 j 17:57	12° X 38'20			118 Feb 05 j 15:43	0° X	
	117 Mar 02 j 20:48	0° Y		asc. node	118 Feb 06 j 14:58	1° X 41'31	
evening max el	117 Mar 04 j 03:34	1° Y 19'20	18°59'25	evening max el	118 Feb 15 j 08:20	13° X 54'53	18°23'59
retrograde	117 Mar 12 j 15:32	5° Y 25'20		retrograde	118 Feb 22 j 17:02	17° X 32'56	
evening set	117 Mar 14 j 21:47	5° Y 09'09		evening set	118 Feb 25 j 04:36	17° X 09'20	
inferior conj	117 Mar 22 j 22:40	0° Y 54'06	2°13'09	inferior conj	118 Mar 04 j 11:16	12° X 33'56	3°15'03
minimum elong	117 Mar 23 j 02:56	0° Y 46'35	2°11'56	minimum elong	118 Mar 04 j 14:50	12° X 26'36	3°14'23
	117 Mar 24 j 05:16	30° R X		min. Earth dist.	118 Mar 07 j 21:43	9° X 45'41	0.58912 AU
min. Earth dist.	117 Mar 26 j 02:21	28° X 41'51	0.56980 AU	morning rise	118 Mar 11 j 22:34	7° X 03'39	
morning rise	117 Mar 31 j 05:03	25° X 51'14		direct	118 Mar 18 j 03:28	5° X 22'32	
desc. node	117 Mar 31 j 07:27	25° X 48'49		desc. node	118 Mar 18 j 04:28	5° X 22'32	
direct	117 Apr 05 j 10:00	24° X 46'48		morning max el	118 Apr 01 j 11:25	13° X 03'17	26°58'30
	117 Apr 17 j 06:32	0° Y			118 Apr 14 j 20:59	0° Y	
morning max el	117 Apr 19 j 16:41	2° Y 10'44	25°44'11		118 May 01 j 10:38	0° X	
	117 May 09 j 08:29	0° X		morning set	118 May 01 j 16:24	0° X 30'10	
morning set	117 May 17 j 06:30	15° X 38'53		asc. node	118 May 05 j 14:17	8° X 51'19	
asc. node	117 May 18 j 17:15	18° X 43'22					
	117 May 23 j 21:41	0° II		superior conj	118 May 08 j 18:05	15° X 46'10	0°32'53
superior conj	117 May 24 j 06:19	0° II 47'18	0°55'37	minimum elong	118 May 08 j 16:41	15° X 38'26	0°32'36
minimum elong	117 May 24 j 04:10	0° II 35'34	0°55'14	max. Earth dist.	118 May 08 j 14:12	15° X 24'48	1.32331 AU
max. Earth dist.	117 May 25 j 01:29	2° II 32'09	1.32602 AU		118 May 15 j 07:32	0° II	
evening rise	117 May 31 j 07:47	15° II 55'32		evening rise	118 May 15 j 16:01	0° II 44'41	
	117 Jun 07 j 11:56	0° E			118 May 31 j 15:57	0° E	
desc. node	117 Jun 27 j 06:47	29° E 54'44		evening max el	118 Jun 13 j 20:11	16° E 31'52	26°22'34
	117 Jun 27 j 08:37	0° O		desc. node	118 Jun 14 j 03:47	16° E 49'51	
evening max el	117 Jul 01 j 19:17	4° O 40'44	27°10'35	retrograde	118 Jun 27 j 20:23	23° E 45'17	
retrograde	117 Jul 15 j 16:36	11° O 57'35		evening set	118 Jul 04 j 08:18	22° E 00'06	
evening set	117 Jul 22 j 18:38	9° O 39'25		min. Earth dist.	118 Jul 08 j 09:11	19° E 22'45	0.59603 AU
min. Earth dist.	117 Jul 26 j 09:28	6° O 53'45	0.61641 AU	inferior conj	118 Jul 11 j 17:17	16° E 46'38	-4°43'14
inferior conj	117 Jul 29 j 12:02	4° O 06'39	-4°18'23	minimum elong	118 Jul 11 j 19:07	16° E 43'01	4°43'08
minimum elong	117 Jul 29 j 16:19	3° O 56'59	4°17'39	morning rise	118 Jul 19 j 08:00	12° E 12'37	
	117 Aug 03 j 19:41	30° R E		direct	118 Jul 21 j 19:47	11° E 50'33	
morning rise	117 Aug 05 j 15:32	29° E 10'13		morning max el	118 Jul 29 j 11:33	15° E 31'59	18°20'25
direct	117 Aug 08 j 02:54	28° E 44'23		asc. node	118 Aug 01 j 13:30	18° E 59'59	
	117 Aug 12 j 06:32	0° O			118 Aug 08 j 14:06	0° O	
asc. node	117 Aug 14 j 16:28	1° O 51'26		morning set	118 Aug 14 j 12:03	11° O 00'08	
morning max el	117 Aug 15 j 01:35	2° O 13'08	17°57'23				
morning set	117 Aug 31 j 00:39	27° O 19'08		superior conj	118 Aug 23 j 17:54	28° O 24'48	1°37'52
	117 Sep 01 j 11:53	0° P		minimum elong	118 Aug 23 j 20:54	28° O 38'31	1°37'40
					118 Aug 24 j 14:45	0° P	
superior conj	117 Sep 10 j 12:43	16° P 09'09	1°18'14	max. Earth dist.	118 Aug 31 j 06:25	11° P 45'47	1.40603 AU
minimum elong	117 Sep 10 j 17:28	16° P 29'45	1°17'44	evening rise	118 Sep 04 j 21:25	19° P 32'31	
max. Earth dist.	117 Sep 17 j 23:22	28° P 45'13	1.42474 AU	desc. node	118 Sep 10 j 03:09	27° P 59'17	
	117 Sep 18 j 17:34	0° E			118 Sep 11 j 09:55	0° E	
desc. node	117 Sep 23 j 06:06	7° E 18'19			118 Oct 02 j 11:22	0° M	
evening rise	117 Sep 24 j 14:00	9° E 24'44		evening max el	118 Oct 09 j 08:17	7° M 50'35	23°20'29
	117 Oct 08 j 03:20	0° M		retrograde	118 Oct 19 j 17:57	13° M 59'49	
evening max el	117 Oct 26 j 17:23	24° M 19'23	22°01'00	evening set	118 Oct 24 j 16:53	11° M 56'47	
retrograde	117 Nov 05 j 00:27	29° M 50'57		asc. node	118 Oct 28 j 12:42	7° M 40'18	
evening set	117 Nov 09 j 10:07	28° M 05'55		min. Earth dist.	118 Oct 29 j 16:27	6° M 06'25	0.67661 AU
asc. node	117 Nov 10 j 15:40	26° M 58'27		inferior conj	118 Oct 30 j 01:35	5° M 35'09	0°31'41
inferior conj	117 Nov 14 j 18:28	21° M 48'17	1°22'54	minimum elong	118 Oct 30 j 00:50	5° M 37'42	0°31'22
minimum elong	117 Nov 14 j 16:40	21° M 54'30	1°22'10		118 Nov 03 j 16:49	30° R E	
min. Earth dist.	117 Nov 14 j 19:52	21° M 43'25	0.67637 AU	morning rise	118 Nov 04 j 08:43	29° E 26'20	
morning rise	117 Nov 19 j 23:03	15° M 35'56		direct	118 Nov 08 j 13:40	27° E 47'57	
direct	117 Nov 24 j 18:22	13° M 34'54			118 Nov 13 j 23:35	0° M	
morning max el	117 Dec 04 j 12:43	19° M 22'12	22°41'02	morning max el	118 Nov 17 j 04:18	2° M 50'01	21°18'06
	117 Dec 13 j 10:50	0° Z		desc. node	118 Dec 07 j 02:22	29° M 28'29	

	118 Dec 07 j 10:48	0°♊		direct	119 Oct 23 j 11:14	12°♊03'52	
morning set	118 Dec 18 j 02:07	16°♊19'19		morning max el	119 Oct 31 j 03:24	16°♊28'25	20°05'53
max. Earth dist.	118 Dec 25 j 13:05	28°♊18'16	1.42254 AU		119 Nov 10 j 17:13	0°♋	
	118 Dec 26 j 13:48	0°♋		desc. node	119 Nov 23 j 23:26	19°♋52'09	
				morning set	119 Nov 26 j 22:54	24°♋27'25	
superior conj	119 Jan 01 j 20:35	10°♋35'06	-2°01'07		119 Nov 30 j 12:33	0°♌	
minimum elong	119 Jan 01 j 18:52	10°♋27'44	2°01'05	max. Earth dist.	119 Dec 07 j 22:37	11°♌42'44	1.43823 AU
	119 Jan 12 j 19:25	0°♍					
evening rise	119 Jan 13 j 02:42	0°♍33'01		superior conj	119 Dec 13 j 08:57	20°♌29'33	-1°46'36
asc. node	119 Jan 24 j 12:00	20°♍12'02		minimum elong	119 Dec 13 j 02:23	20°♌02'38	1°46'08
evening max el	119 Jan 29 j 18:23	26°♍53'29	18°08'26		119 Dec 19 j 02:37	0°♎	
	119 Feb 03 j 10:37	0°♏		evening rise	119 Dec 26 j 09:19	12°♎24'24	
retrograde	119 Feb 05 j 11:33	0°♏19'27			120 Jan 05 j 18:47	0°♏	
	119 Feb 07 j 13:06	30°♏		asc. node	120 Jan 11 j 09:03	8°♏00'10	
evening set	119 Feb 08 j 03:46	29°♏47'03		evening max el	120 Jan 13 j 06:47	10°♏07'37	18°12'16
inferior conj	119 Feb 14 j 19:30	24°♏50'24	3°44'33	retrograde	120 Jan 19 j 18:32	13°♏35'00	
minimum elong	119 Feb 14 j 20:54	24°♏47'03	3°44'27	evening set	120 Jan 22 j 15:12	12°♏52'53	
min. Earth dist.	119 Feb 17 j 23:40	21°♏50'17	0.61015 AU	inferior conj	120 Jan 28 j 19:38	7°♏36'06	3°49'09
morning rise	119 Feb 21 j 12:27	19°♏01'30		minimum elong	120 Jan 28 j 18:58	7°♏37'54	3°49'08
direct	119 Feb 28 j 08:00	16°♏44'45		min. Earth dist.	120 Jan 31 j 10:41	4°♏47'03	0.63004 AU
desc. node	119 Mar 05 j 01:31	17°♏44'52		morning rise	120 Feb 03 j 21:49	1°♏35'56	
morning max el	119 Mar 14 j 12:37	24°♏34'41	27°40'20		120 Feb 06 j 10:02	30°♏	
	119 Mar 19 j 11:27	0°♐		direct	120 Feb 10 j 21:39	28°♏53'57	
	119 Apr 08 j 03:59	0°♑			120 Feb 15 j 16:24	0°♑	
morning set	119 Apr 15 j 22:40	15°♑08'03		desc. node	120 Feb 19 j 22:34	2°♑32'22	
max. Earth dist.	119 Apr 22 j 02:08	28°♑12'07	1.32424 AU	morning max el	120 Feb 24 j 19:13	6°♑46'50	27°45'03
asc. node	119 Apr 22 j 11:19	29°♑02'06			120 Mar 13 j 12:47	0°♒	
	119 Apr 22 j 21:55	0°♓		morning set	120 Mar 29 j 23:04	29°♒25'15	
					120 Mar 30 j 05:59	0°♑	
superior conj	119 Apr 23 j 05:09	0°♓39'32	0°07'53	max. Earth dist.	120 Apr 04 j 09:17	10°♑40'10	1.32905 AU
minimum elong	119 Apr 23 j 04:47	0°♓37'33	0°07'48				
behind sun begin	119 Apr 23 j 00:21	0°♓13'18		superior conj	120 Apr 06 j 13:51	15°♑21'49	-0°18'38
behind sun end	119 Apr 23 j 09:14	1°♓01'50		minimum elong	120 Apr 06 j 14:44	15°♑26'37	0°18'27
evening rise	119 Apr 30 j 02:58	15°♓38'50		asc. node	120 Apr 08 j 08:22	19°♑11'46	
	119 May 07 j 07:06	0°♒			120 Apr 13 j 08:50	0°♓	
evening max el	119 May 26 j 14:04	27°♒37'40	25°06'26	evening rise	120 Apr 13 j 14:48	0°♓31'35	
	119 May 29 j 06:36	0°♓			120 Apr 30 j 03:30	0°♒	
desc. node	119 Jun 01 j 00:48	1°♓58'46		evening max el	120 May 07 j 04:27	8°♒14'52	23°33'49
retrograde	119 Jun 09 j 14:12	4°♓45'22		desc. node	120 May 17 j 21:49	14°♒45'13	
evening set	119 Jun 14 j 22:54	3°♓39'06		retrograde	120 May 20 j 20:10	15°♒04'47	
min. Earth dist.	119 Jun 20 j 01:41	0°♓52'00	0.57608 AU	evening set	120 May 24 j 17:41	14°♒31'20	
	119 Jun 21 j 08:52	30°♒		min. Earth dist.	120 May 31 j 14:57	11°♒19'52	0.55990 AU
inferior conj	119 Jun 23 j 03:31	28°♒47'16	-4°40'16	inferior conj	120 Jun 02 j 17:40	10°♒03'56	-3°56'44
minimum elong	119 Jun 23 j 00:55	28°♒51'40	4°40'05	minimum elong	120 Jun 02 j 10:57	10°♒14'03	3°55'19
morning rise	119 Jul 01 j 05:41	24°♒35'19		morning rise	120 Jun 11 j 07:01	6°♒07'22	
direct	119 Jul 03 j 19:15	24°♒15'55		direct	120 Jun 13 j 23:18	5°♒49'30	
morning max el	119 Jul 12 j 14:07	28°♒22'25	19°04'07	morning max el	120 Jun 24 j 06:42	10°♒35'35	20°08'49
	119 Jul 14 j 04:28	0°♓		asc. node	120 Jul 05 j 07:38	25°♒45'57	
asc. node	119 Jul 19 j 10:34	7°♓02'17			120 Jul 07 j 15:12	0°♓	
morning set	119 Jul 29 j 09:20	25°♓10'31		morning set	120 Jul 12 j 13:27	9°♓42'23	
	119 Jul 31 j 19:46	0°♑					
superior conj	119 Aug 06 j 17:51	11°♑36'54	1°46'19	superior conj	120 Jul 20 j 07:22	25°♓30'33	1°45'46
minimum elong	119 Aug 06 j 18:42	11°♑41'01	1°46'18	minimum elong	120 Jul 20 j 06:29	25°♓26'09	1°45'44
max. Earth dist.	119 Aug 13 j 09:35	24°♑02'43	1.38579 AU		120 Jul 22 j 13:28	0°♑	
	119 Aug 16 j 18:06	0°♒		max. Earth dist.	120 Jul 25 j 14:16	5°♑53'24	1.36663 AU
evening rise	119 Aug 17 j 05:35	0°♒49'57		evening rise	120 Jul 29 j 12:26	13°♑13'17	
desc. node	119 Aug 28 j 00:11	18°♒31'07			120 Aug 08 j 06:15	0°♒	
	119 Sep 04 j 16:55	0°♓		desc. node	120 Aug 13 j 21:12	8°♒48'41	
evening max el	119 Sep 21 j 20:20	21°♓24'43	24°39'39		120 Aug 29 j 14:51	0°♓	
retrograde	119 Oct 03 j 07:44	28°♓06'35		evening max el	120 Sep 03 j 07:48	5°♓01'26	25°51'04
evening set	119 Oct 08 j 21:02	25°♓46'03		retrograde	120 Sep 15 j 16:59	12°♓05'54	
min. Earth dist.	119 Oct 13 j 11:51	20°♓29'36	0.67359 AU	evening set	120 Sep 21 j 20:41	9°♓30'46	
inferior conj	119 Oct 14 j 07:27	19°♓24'20	-0°22'44	min. Earth dist.	120 Sep 26 j 03:36	4°♓50'07	0.66732 AU
minimum elong	119 Oct 14 j 08:00	19°♓22'28	0°22'30	inferior conj	120 Sep 27 j 10:15	3°♓13'03	-1°18'54
asc. node	119 Oct 15 j 09:46	17°♓57'36		minimum elong	120 Sep 27 j 12:15	3°♓06'42	1°18'03
morning rise	119 Oct 19 j 19:04	13°♓21'30			120 Sep 30 j 02:26	30°♒	
				asc. node	120 Oct 01 j 06:51	28°♒47'38	

morning rise	120 Oct 03 j 04:06	27° \mathbb{M} 18'58		morning max el	121 Sep 26 j 21:53	14° \mathbb{M} 07'34	18°25'32
direct	120 Oct 06 j 09:40	26° \mathbb{M} 18'47			121 Oct 08 j 08:06	0° \mathbb{L}	
	120 Oct 13 j 03:41	0° \mathbb{L}		morning set	121 Oct 16 j 12:17	13° \mathbb{L} 10'40	
morning max el	120 Oct 13 j 09:49	0° \mathbb{L} 15'19	19°07'43		121 Oct 27 j 00:07	0° \mathbb{M}	
	120 Nov 03 j 04:11	0° \mathbb{M}		desc. node	121 Oct 27 j 17:31	1° \mathbb{M} 09'02	
morning set	120 Nov 05 j 04:27	3° \mathbb{M} 08'38					
desc. node	120 Nov 09 j 20:29	10° \mathbb{M} 26'49		superior conj	121 Oct 31 j 20:56	7° \mathbb{M} 41'36	-0°27'02
max. Earth dist.	120 Nov 19 j 13:52	25° \mathbb{M} 42'26	1.44785 AU	minimum elong	121 Oct 31 j 17:23	7° \mathbb{M} 27'37	0°26'33
				max. Earth dist.	121 Nov 02 j 08:24	10° \mathbb{M} 01'10	1.45036 AU
superior conj	120 Nov 21 j 20:26	29° \mathbb{M} 17'55	-1°13'40		121 Nov 15 j 01:52	0° \mathbb{J}	
minimum elong	120 Nov 21 j 12:17	28° \mathbb{M} 45'40	1°12'45	evening rise	121 Nov 17 j 03:11	3° \mathbb{J} 14'01	
	120 Nov 22 j 07:04	0° \mathbb{J}		greatest brilliancy	121 Nov 27 j 07:25	19° \mathbb{J} 12'04	-0.8m
evening rise	120 Dec 06 j 18:09	23° \mathbb{J} 18'23			121 Dec 04 j 13:22	0° \mathbb{Z}	
	120 Dec 10 j 19:56	0° \mathbb{Z}		evening max el	121 Dec 10 j 04:06	6° \mathbb{Z} 57'19	19°14'22
evening max el	120 Dec 26 j 18:49	23° \mathbb{Z} 30'21	18°34'39	asc. node	121 Dec 15 j 03:10	10° \mathbb{Z} 35'41	
asc. node	120 Dec 28 j 06:07	24° \mathbb{Z} 52'51		retrograde	121 Dec 17 j 05:14	10° \mathbb{Z} 59'44	
retrograde	121 Jan 02 j 09:34	27° \mathbb{Z} 10'21		evening set	121 Dec 20 j 13:37	9° \mathbb{Z} 54'22	
evening set	121 Jan 05 j 11:25	26° \mathbb{Z} 17'22		inferior conj	121 Dec 26 j 04:02	4° \mathbb{Z} 03'20	3°09'28
inferior conj	121 Jan 11 j 07:36	20° \mathbb{Z} 42'21	3°35'47	minimum elong	121 Dec 26 j 01:19	4° \mathbb{Z} 11'59	3°08'50
minimum elong	121 Jan 11 j 05:32	20° \mathbb{Z} 48'27	3°35'30	min. Earth dist.	121 Dec 27 j 12:51	2° \mathbb{Z} 18'33	0.66005 AU
min. Earth dist.	121 Jan 13 j 07:20	18° \mathbb{Z} 20'55	0.64694 AU		121 Dec 29 j 10:44	30° \mathbb{R} \mathbb{J}	
morning rise	121 Jan 16 j 23:11	14° \mathbb{Z} 35'28		morning rise	121 Dec 31 j 12:47	27° \mathbb{J} 52'28	
direct	121 Jan 23 j 18:41	11° \mathbb{Z} 43'15		direct	122 Jan 06 j 21:49	25° \mathbb{J} 04'09	
desc. node	121 Feb 05 j 19:38	19° \mathbb{Z} 08'08			122 Jan 16 j 20:57	0° \mathbb{Z}	
morning max el	121 Feb 06 j 04:28	19° \mathbb{Z} 30'04	27°14'50	morning max el	122 Jan 19 j 13:54	2° \mathbb{Z} 32'41	26°16'19
	121 Feb 15 j 04:03	0° \mathbb{A}		desc. node	122 Jan 23 j 16:42	7° \mathbb{Z} 01'29	
	121 Mar 06 j 12:33	0° \mathbb{H}			122 Feb 09 j 08:59	0° \mathbb{A}	
morning set	121 Mar 13 j 14:42	13° \mathbb{H} 11'54		morning set	122 Feb 24 j 17:43	26° \mathbb{A} 16'18	
max. Earth dist.	121 Mar 18 j 07:40	22° \mathbb{H} 36'51	1.33812 AU		122 Feb 26 j 17:02	0° \mathbb{H}	
				max. Earth dist.	122 Feb 28 j 18:38	3° \mathbb{H} 59'49	1.35177 AU
superior conj	121 Mar 21 j 18:12	29° \mathbb{H} 46'26	-0°45'36				
minimum elong	121 Mar 21 j 20:24	29° \mathbb{H} 58'02	0°45'10	superior conj	122 Mar 05 j 15:51	13° \mathbb{H} 46'12	-1°11'41
	121 Mar 21 j 20:46	0° \mathbb{Y}		minimum elong	122 Mar 05 j 19:11	14° \mathbb{H} 03'13	1°11'08
asc. node	121 Mar 26 j 05:26	9° \mathbb{Y} 15'53		evening rise	122 Mar 13 j 09:38	29° \mathbb{H} 46'59	
evening rise	121 Mar 29 j 01:40	15° \mathbb{Y} 16'21		asc. node	122 Mar 13 j 02:28	29° \mathbb{H} 10'06	
	121 Apr 05 j 12:43	0° \mathbb{B}			122 Mar 13 j 12:10	0° \mathbb{Y}	
evening max el	121 Apr 18 j 22:14	18° \mathbb{B} 52'55	21°59'28	evening max el	122 Apr 01 j 01:16	29° \mathbb{Y} 57'14	20°35'31
retrograde	121 May 01 j 13:56	25° \mathbb{B} 04'46			122 Apr 01 j 02:24	0° \mathbb{B}	
evening set	121 May 04 j 06:19	24° \mathbb{B} 48'47		retrograde	122 Apr 12 j 02:49	5° \mathbb{B} 17'20	
desc. node	121 May 04 j 18:49	24° \mathbb{B} 42'07		evening set	122 Apr 14 j 06:25	5° \mathbb{B} 06'05	
min. Earth dist.	121 May 13 j 03:42	21° \mathbb{B} 01'04	0.55088 AU	desc. node	122 Apr 21 j 15:51	2° \mathbb{B} 09'32	
inferior conj	121 May 13 j 16:11	20° \mathbb{B} 43'33	-2°27'58	inferior conj	122 Apr 23 j 10:42	1° \mathbb{B} 08'34	-0°30'47
minimum elong	121 May 13 j 09:45	20° \mathbb{B} 52'35	2°25'55	minimum elong	122 Apr 23 j 09:15	1° \mathbb{B} 10'39	0°30'15
morning rise	121 May 22 j 14:29	16° \mathbb{B} 48'16		min. Earth dist.	122 Apr 24 j 16:53	0° \mathbb{B} 25'03	0.55122 AU
direct	121 May 25 j 13:02	16° \mathbb{B} 28'59			122 Apr 25 j 10:31	30° \mathbb{R} \mathbb{Y}	
morning max el	121 Jun 06 j 12:01	22° \mathbb{B} 05'44	21°32'52	morning rise	122 May 02 j 11:05	26° \mathbb{Y} 56'14	
	121 Jun 13 j 06:06	0° \mathbb{I}		direct	122 May 06 j 00:16	26° \mathbb{Y} 29'00	
asc. node	121 Jun 22 j 04:42	15° \mathbb{I} 00'57			122 May 15 j 18:13	0° \mathbb{B}	
morning set	121 Jun 26 j 22:06	24° \mathbb{I} 29'34		morning max el	122 May 19 j 07:39	2° \mathbb{B} 56'30	23°10'41
	121 Jun 29 j 13:19	0° \mathbb{E}			122 Jun 06 j 17:44	0° \mathbb{I}	
				asc. node	122 Jun 09 j 01:44	4° \mathbb{I} 38'31	
superior conj	121 Jul 04 j 06:24	9° \mathbb{E} 54'00	1°38'09	morning set	122 Jun 11 j 09:15	9° \mathbb{I} 25'19	
minimum elong	121 Jul 04 j 04:26	9° \mathbb{E} 43'42	1°38'00				
max. Earth dist.	121 Jul 08 j 02:36	17° \mathbb{E} 46'44	1.35038 AU	superior conj	122 Jun 18 j 11:48	24° \mathbb{I} 36'42	1°24'58
evening rise	121 Jul 12 j 13:13	26° \mathbb{E} 30'17		minimum elong	122 Jun 18 j 09:21	24° \mathbb{I} 23'34	1°24'40
	121 Jul 14 j 09:38	0° \mathbb{Q}		max. Earth dist.	122 Jun 21 j 00:34	29° \mathbb{I} 59'05	1.33788 AU
desc. node	121 Jul 31 j 18:12	28° \mathbb{Q} 45'34			122 Jun 21 j 00:45	0° \mathbb{E}	
	121 Aug 01 j 14:49	0° \mathbb{M}		evening rise	122 Jun 26 j 03:09	10° \mathbb{E} 26'31	
evening max el	121 Aug 16 j 19:50	18° \mathbb{M} 36'16	26°46'51		122 Jul 06 j 18:15	0° \mathbb{Q}	
retrograde	121 Aug 29 j 20:57	25° \mathbb{M} 52'06		desc. node	122 Jul 18 j 15:12	18° \mathbb{Q} 12'00	
evening set	121 Sep 05 j 13:41	23° \mathbb{M} 08'02			122 Jul 28 j 08:26	0° \mathbb{M}	
min. Earth dist.	121 Sep 09 j 13:21	19° \mathbb{M} 04'28	0.65766 AU	evening max el	122 Jul 30 j 07:33	1° \mathbb{M} 57'38	27°19'35
inferior conj	121 Sep 11 j 08:02	16° \mathbb{M} 58'33	-2°14'56	retrograde	122 Aug 12 j 19:08	9° \mathbb{M} 16'39	
minimum elong	121 Sep 11 j 11:27	16° \mathbb{M} 48'28	2°13'38	evening set	122 Aug 19 j 21:18	6° \mathbb{M} 32'34	
morning rise	121 Sep 17 j 09:44	11° \mathbb{M} 16'18		min. Earth dist.	122 Aug 23 j 14:40	3° \mathbb{M} 05'03	0.64437 AU
asc. node	121 Sep 18 j 03:54	10° \mathbb{M} 55'14		inferior conj	122 Aug 25 j 22:24	0° \mathbb{M} 35'05	-3°08'29
direct	121 Sep 20 j 07:04	10° \mathbb{M} 29'52		minimum elong	122 Aug 26 j 02:55	0° \mathbb{M} 22'56	3°07'04

	122 Aug 26 j 11:28	30° \mathbb{R} 8 \mathbb{Q}		morning rise	123 Aug 15 j 23:52	8° \mathbb{Q} 48'09	
morning rise	122 Sep 01 j 09:22	25° \mathbb{Q} 08'12		direct	123 Aug 18 j 12:06	8° \mathbb{Q} 19'16	
direct	122 Sep 04 j 00:57	24° \mathbb{Q} 32'01		asc. node	123 Aug 22 j 21:59	9° \mathbb{Q} 50'23	
asc. node	122 Sep 05 j 00:57	24° \mathbb{Q} 37'13		morning max el	123 Aug 25 j 04:42	11° \mathbb{Q} 44'45	17°53'05
morning max el	122 Sep 10 j 13:06	27° \mathbb{Q} 59'22	18°00'22		123 Sep 06 j 11:14	0° \mathbb{M}	
	122 Sep 12 j 08:52	0° \mathbb{M}		morning set	123 Sep 10 j 11:09	7° \mathbb{M} 04'50	
morning set	122 Sep 28 j 00:15	24° \mathbb{M} 34'52					
	122 Oct 01 j 05:17	0° \mathbb{A}		superior conj	123 Sep 21 j 21:19	26° \mathbb{M} 58'08	1°01'09
				minimum elong	123 Sep 22 j 02:15	27° \mathbb{M} 18'55	1°00'34
superior conj	122 Oct 11 j 08:23	16° \mathbb{A} 41'37	0°21'28		123 Sep 23 j 16:40	0° \mathbb{A}	
minimum elong	122 Oct 11 j 10:51	16° \mathbb{A} 51'34	0°21'07	max. Earth dist.	123 Sep 28 j 18:13	8° \mathbb{A} 19'19	1.43386 AU
desc. node	122 Oct 14 j 14:32	21° \mathbb{A} 55'02		desc. node	123 Oct 01 j 11:33	12° \mathbb{A} 41'48	
max. Earth dist.	122 Oct 16 j 02:59	24° \mathbb{A} 19'55	1.44547 AU	evening rise	123 Oct 06 j 23:43	21° \mathbb{A} 21'49	
	122 Oct 19 j 17:13	0° \mathbb{M}			123 Oct 12 j 14:46	0° \mathbb{M}	
evening rise	122 Oct 27 j 16:32	12° \mathbb{M} 23'42			123 Nov 02 j 20:13	0° \mathbb{A}	
	122 Nov 08 j 05:50	0° \mathbb{A}		evening max el	123 Nov 06 j 07:33	3° \mathbb{A} 53'41	21°17'37
greatest brilliancy	122 Nov 10 j 19:16	3° \mathbb{A} 48'28	-0.6m	retrograde	123 Nov 15 j 00:07	9° \mathbb{A} 03'36	
evening max el	122 Nov 23 j 08:43	20° \mathbb{A} 25'28	20°09'37	asc. node	123 Nov 18 j 21:13	7° \mathbb{A} 39'12	
retrograde	122 Dec 01 j 02:48	24° \mathbb{A} 58'38		evening set	123 Nov 19 j 02:59	7° \mathbb{A} 28'18	
asc. node	122 Dec 02 j 00:11	24° \mathbb{A} 54'08		inferior conj	123 Nov 24 j 11:43	1° \mathbb{A} 14'19	1°50'21
evening set	122 Dec 04 j 19:27	23° \mathbb{A} 39'10		minimum elong	123 Nov 24 j 09:28	1° \mathbb{A} 22'04	1°49'31
inferior conj	122 Dec 10 j 06:10	17° \mathbb{A} 34'59	2°33'34	min. Earth dist.	123 Nov 24 j 19:20	0° \mathbb{A} 48'04	0.67467 AU
minimum elong	122 Dec 10 j 03:26	17° \mathbb{A} 44'09	2°32'42		123 Nov 25 j 09:21	30° \mathbb{R} \mathbb{M}	
min. Earth dist.	122 Dec 11 j 01:36	16° \mathbb{A} 29'45	0.66918 AU	morning rise	123 Nov 29 j 15:48	25° \mathbb{M} 01'01	
morning rise	122 Dec 15 j 11:14	11° \mathbb{A} 21'58		direct	123 Dec 04 j 19:40	22° \mathbb{M} 47'19	
direct	122 Dec 21 j 06:19	8° \mathbb{A} 48'01		morning max el	123 Dec 15 j 07:24	29° \mathbb{M} 02'10	23°31'29
morning max el	123 Jan 01 j 22:32	15° \mathbb{A} 45'08	24°58'34		123 Dec 16 j 05:48	0° \mathbb{A}	
desc. node	123 Jan 10 j 13:45	25° \mathbb{A} 49'46		desc. node	123 Dec 28 j 10:47	15° \mathbb{A} 16'45	
	123 Jan 13 j 17:03	0° \mathbb{B}			124 Jan 07 j 12:19	0° \mathbb{B}	
	123 Feb 02 j 07:01	0° \mathbb{A}		morning set	124 Jan 19 j 12:08	19° \mathbb{B} 17'10	
morning set	123 Feb 07 j 02:58	8° \mathbb{A} 23'53		max. Earth dist.	124 Jan 23 j 14:10	26° \mathbb{B} 19'07	1.39032 AU
max. Earth dist.	123 Feb 10 j 19:06	15° \mathbb{A} 04'06	1.36961 AU		124 Jan 25 j 16:05	0° \mathbb{A}	
superior conj	123 Feb 17 j 03:48	27° \mathbb{A} 12'36	-1°35'02	superior conj	124 Jan 31 j 02:03	9° \mathbb{A} 54'13	-1°52'59
minimum elong	123 Feb 17 j 07:42	27° \mathbb{A} 31'45	1°34'33	minimum elong	124 Jan 31 j 05:20	10° \mathbb{A} 09'35	1°52'45
	123 Feb 18 j 13:44	0° \mathbb{H}		evening rise	124 Feb 09 j 07:36	27° \mathbb{A} 37'31	
evening rise	123 Feb 25 j 12:31	13° \mathbb{H} 56'50			124 Feb 10 j 13:03	0° \mathbb{H}	
asc. node	123 Feb 27 j 23:29	18° \mathbb{H} 49'40		asc. node	124 Feb 14 j 20:32	8° \mathbb{H} 08'02	
	123 Mar 06 j 00:39	0° \mathbb{Y}		evening max el	124 Feb 25 j 15:48	23° \mathbb{H} 57'25	18°41'56
evening max el	123 Mar 14 j 15:34	11° \mathbb{Y} 39'36	19°28'51	retrograde	124 Mar 04 j 15:00	27° \mathbb{H} 49'58	
retrograde	123 Mar 24 j 00:20	16° \mathbb{Y} 09'42		evening set	124 Mar 06 j 23:22	27° \mathbb{H} 31'01	
evening set	123 Mar 26 j 03:54	15° \mathbb{Y} 56'31		inferior conj	124 Mar 14 j 16:11	23° \mathbb{H} 07'39	2°43'43
inferior conj	123 Apr 03 j 15:46	11° \mathbb{Y} 50'29	1°21'19	minimum elong	124 Mar 14 j 20:28	22° \mathbb{H} 59'35	2°42'40
minimum elong	123 Apr 03 j 18:58	11° \mathbb{Y} 45'18	1°20'16	min. Earth dist.	124 Mar 18 j 00:37	20° \mathbb{H} 37'18	0.57750 AU
min. Earth dist.	123 Apr 06 j 07:24	10° \mathbb{Y} 08'05	0.56080 AU	morning rise	124 Mar 22 j 14:37	17° \mathbb{H} 51'40	
desc. node	123 Apr 08 j 12:53	8° \mathbb{Y} 48'47		desc. node	124 Mar 25 j 09:55	16° \mathbb{H} 52'44	
morning rise	123 Apr 12 j 07:22	7° \mathbb{Y} 06'45		direct	124 Mar 28 j 06:20	16° \mathbb{H} 32'24	
direct	123 Apr 16 j 20:21	6° \mathbb{Y} 20'08		morning max el	124 Apr 11 j 14:49	24° \mathbb{H} 05'26	26°19'11
morning max el	123 Apr 30 j 22:38	13° \mathbb{Y} 27'41	24°51'07		124 Apr 16 j 23:46	0° \mathbb{Y}	
	123 May 13 j 19:52	0° \mathbb{B}			124 May 05 j 18:07	0° \mathbb{B}	
morning set	123 May 26 j 21:14	24° \mathbb{B} 24'14		morning set	124 May 10 j 08:22	9° \mathbb{B} 19'53	
asc. node	123 May 26 j 22:46	24° \mathbb{B} 32'22		asc. node	124 May 12 j 19:49	14° \mathbb{B} 36'26	
	123 May 29 j 12:08	0° \mathbb{I}					
				superior conj	124 May 17 j 08:36	24° \mathbb{B} 30'16	0°46'19
superior conj	123 Jun 02 j 21:12	9° \mathbb{I} 31'15	1°07'24	minimum elong	124 May 17 j 06:44	24° \mathbb{B} 19'58	0°45'57
minimum elong	123 Jun 02 j 18:49	9° \mathbb{I} 18'15	1°07'00	max. Earth dist.	124 May 17 j 17:57	25° \mathbb{B} 21'31	1.32441 AU
max. Earth dist.	123 Jun 04 j 06:46	12° \mathbb{I} 33'21	1.32927 AU		124 May 19 j 20:53	0° \mathbb{I}	
evening rise	123 Jun 10 j 02:29	24° \mathbb{I} 50'44		evening rise	124 May 24 j 08:08	9° \mathbb{I} 32'52	
	123 Jun 12 j 16:04	0° \mathbb{B}			124 Jun 04 j 00:09	0° \mathbb{B}	
	123 Jun 30 j 07:55	0° \mathbb{Q}		desc. node	124 Jun 21 j 09:12	24° \mathbb{B} 36'41	
desc. node	123 Jul 05 j 12:12	6° \mathbb{Q} 55'06		evening max el	124 Jun 23 j 21:13	27° \mathbb{B} 08'28	26°53'55
evening max el	123 Jul 12 j 16:50	14° \mathbb{Q} 52'23	27°23'05		124 Jun 27 j 04:36	0° \mathbb{Q}	
retrograde	123 Jul 26 j 11:07	22° \mathbb{Q} 10'42		retrograde	124 Jul 07 j 20:08	4° \mathbb{Q} 24'45	
evening set	123 Aug 02 j 16:07	19° \mathbb{Q} 38'42		evening set	124 Jul 14 j 17:47	2° \mathbb{Q} 18'58	
min. Earth dist.	123 Aug 06 j 05:59	16° \mathbb{Q} 41'20	0.62752 AU		124 Jul 18 j 00:44	30° \mathbb{R} \mathbb{B}	
inferior conj	123 Aug 09 j 02:34	13° \mathbb{Q} 56'17	-3°55'56	min. Earth dist.	124 Jul 18 j 11:08	29° \mathbb{B} 39'07	0.60787 AU
minimum elong	123 Aug 09 j 07:22	13° \mathbb{Q} 44'44	3°54'50	inferior conj	124 Jul 21 j 17:13	26° \mathbb{B} 53'55	-4°31'34

minimum elong	124 Jul 21 j 20:45	26°☿46'25	4°31'07	minimum elong	125 Jul 03 j 14:54	9°☿18'18	4°46'13
morning rise	124 Jul 29 j 01:31	22°☿07'13		morning rise	125 Jul 11 j 10:19	4°☿54'06	
direct	124 Jul 31 j 12:43	21°☿43'17		direct	125 Jul 13 j 22:34	4°☿33'23	
morning max el	124 Aug 07 j 17:40	25°☿16'05	18°04'44	morning max el	125 Jul 22 j 00:52	8°☿24'20	18°36'23
asc. node	124 Aug 08 j 19:02	26°☿21'22		asc. node	125 Jul 26 j 16:06	13°☿54'41	
	124 Aug 11 j 17:16	0°♊			125 Aug 05 j 01:22	0°♊	
morning set	124 Aug 23 j 15:05	20°♊23'54		morning set	125 Aug 07 j 07:09	4°♊18'45	
	124 Aug 28 j 19:22	0°♋					
superior conj	124 Sep 02 j 13:08	8°♋34'19	1°28'03	superior conj	125 Aug 16 j 02:59	21°♊15'58	1°42'41
minimum elong	124 Sep 02 j 17:16	8°♋52'41	1°27'41	minimum elong	125 Aug 16 j 05:03	21°♊25'40	1°42'34
max. Earth dist.	124 Sep 10 j 03:48	21°♋42'25	1.41709 AU		125 Aug 20 j 21:14	0°♋	
	124 Sep 15 j 05:00	0°♌		max. Earth dist.	125 Aug 23 j 08:25	4°♋22'26	1.39745 AU
evening rise	124 Sep 15 j 18:37	0°♌54'45		evening rise	125 Aug 27 j 12:32	11°♋32'20	
desc. node	124 Sep 17 j 08:35	3°♌26'11		desc. node	125 Sep 04 j 05:36	24°♋03'58	
	124 Oct 05 j 03:03	0°♍			125 Sep 08 j 01:58	0°♌	
evening max el	124 Oct 19 j 00:55	17°♍23'33	22°34'27	evening max el	125 Sep 30 j 16:13	0°♍	
retrograde	124 Oct 28 j 19:29	23°♍12'11		retrograde	125 Oct 01 j 14:26	0°♍56'30	23°54'42
evening set	124 Nov 02 j 10:30	21°♍19'39		retrograde	125 Oct 12 j 11:31	7°♍20'35	
asc. node	124 Nov 04 j 18:15	18°♍58'25		evening set	125 Oct 17 j 16:22	5°♍10'14	
inferior conj	124 Nov 07 j 18:49	14°♍59'37	1°01'40		125 Oct 22 j 04:26	30°♎	
minimum elong	124 Nov 07 j 17:26	15°♍04'25	1°01'05	min. Earth dist.	125 Oct 22 j 12:10	29°♌33'51	0.67572 AU
min. Earth dist.	124 Nov 07 j 15:43	15°♍10'22	0.67680 AU	asc. node	125 Oct 22 j 15:19	29°♌23'12	
morning rise	124 Nov 13 j 00:13	8°♍48'15		inferior conj	125 Oct 23 j 01:38	28°♌48'08	0°08'55
direct	124 Nov 17 j 13:11	6°♍57'01		minimum elong	125 Oct 23 j 01:25	28°♌48'52	0°08'49
morning max el	124 Nov 26 j 19:29	12°♍25'06	22°04'43	transit middle	125 Oct 23 j 01:25	28°♌48'52	0°08'49
	124 Dec 10 j 17:09	0°♎		transit begin	125 Oct 22 j 23:08	28°♌56'38	
desc. node	124 Dec 14 j 07:50	5°♎11'54		transit end	125 Oct 23 j 03:42	28°♌41'06	
morning set	124 Dec 29 j 16:23	28°♎46'13		morning rise	125 Oct 28 j 10:26	22°♌41'18	
	124 Dec 30 j 10:40	0°♏		direct	125 Nov 01 j 09:45	21°♌11'53	
max. Earth dist.	125 Jan 04 j 11:36	8°♏17'37	1.41142 AU	morning max el	125 Nov 09 j 14:00	25°♌56'57	20°45'43
					125 Nov 13 j 04:41	0°♍	
superior conj	125 Jan 12 j 05:47	21°♏39'52	-2°01'52	desc. node	125 Dec 01 j 04:53	25°♍26'52	
minimum elong	125 Jan 12 j 06:32	21°♏43'10	2°01'52		125 Dec 04 j 04:44	0°♎	
	125 Jan 16 j 20:51	0°♐		morning set	125 Dec 08 j 19:28	7°♎07'13	
evening rise	125 Jan 22 j 15:39	10°♐41'55		max. Earth dist.	125 Dec 17 j 16:40	21°♎13'18	1.42990 AU
asc. node	125 Jan 31 j 17:34	26°♐58'28			125 Dec 23 j 00:51	0°♏	
	125 Feb 02 j 15:35	0°♑					
evening max el	125 Feb 07 j 23:12	6°♑43'46	18°15'02	superior conj	125 Dec 24 j 09:37	2°♏17'10	-1°57'10
retrograde	125 Feb 15 j 00:01	10°♑14'46		minimum elong	125 Dec 24 j 05:47	2°♏01'04	1°57'01
evening set	125 Feb 17 j 13:34	9°♑47'39		evening rise	126 Jan 05 j 08:44	23°♏01'54	
inferior conj	125 Feb 24 j 13:29	5°♑03'32	3°31'03		126 Jan 09 j 07:07	0°♐	
minimum elong	125 Feb 24 j 16:11	4°♑57'35	3°30'41	asc. node	126 Jan 18 j 14:37	15°♐12'20	
min. Earth dist.	125 Feb 27 j 22:40	2°♑06'49	0.59804 AU	evening max el	126 Jan 22 j 10:39	19°♐50'09	18°07'48
	125 Mar 02 j 17:49	30°♒		retrograde	126 Jan 29 j 00:12	23°♐14'48	
morning rise	125 Mar 03 j 16:38	29°♐24'10		evening set	126 Jan 31 j 18:24	22°♐38'15	
direct	125 Mar 10 j 05:10	27°♐26'42		inferior conj	126 Feb 07 j 04:55	17°♐33'01	3°49'03
desc. node	125 Mar 12 j 06:58	27°♐38'11		minimum elong	126 Feb 07 j 05:23	17°♐31'51	3°49'03
	125 Mar 18 j 01:27	0°♓		min. Earth dist.	126 Feb 10 j 04:06	14°♐35'08	0.61893 AU
morning max el	125 Mar 24 j 12:09	5°♓12'54	27°20'39	morning rise	126 Feb 13 j 15:06	11°♐38'55	
	125 Apr 11 j 21:18	0°♑		direct	126 Feb 20 j 13:54	9°♐09'37	
morning set	125 Apr 24 j 16:58	24°♑06'04		desc. node	126 Feb 27 j 04:02	11°♐06'26	
	125 Apr 27 j 11:57	0°♒		morning max el	126 Mar 06 j 15:38	17°♐01'12	27°46'54
asc. node	125 Apr 29 j 16:52	4°♒46'07			126 Mar 17 j 10:15	0°♓	
					126 Apr 04 j 12:47	0°♑	
superior conj	125 May 01 j 20:18	9°♒27'34	0°22'32	morning set	126 Apr 08 j 21:03	8°♑36'14	
minimum elong	125 May 01 j 19:18	9°♒22'06	0°22'19	max. Earth dist.	126 Apr 14 j 16:56	20°♑53'04	1.32575 AU
max. Earth dist.	125 May 01 j 06:35	8°♒12'20	1.32320 AU				
evening rise	125 May 08 j 17:45	24°♒24'51		superior conj	126 Apr 16 j 06:36	24°♑17'23	-0°03'15
	125 May 11 j 10:27	0°♓		minimum elong	126 Apr 16 j 06:46	24°♑18'12	0°03'13
	125 May 29 j 05:07	0°☿		behind sun begin	126 Apr 16 j 01:43	23°♑50'49	
evening max el	125 Jun 05 j 19:05	8°☿39'57	25°53'08	behind sun end	126 Apr 16 j 11:48	24°♑45'37	
desc. node	125 Jun 08 j 06:13	10°☿51'07		asc. node	126 Apr 16 j 13:56	24°♑57'15	
retrograde	125 Jun 19 j 20:20	15°☿52'00			126 Apr 18 j 21:27	0°♒	
evening set	125 Jun 25 j 21:52	14°☿23'31		evening rise	126 Apr 23 j 05:19	9°♒19'45	
min. Earth dist.	125 Jun 30 j 07:39	11°☿43'49	0.58726 AU		126 May 03 j 22:29	0°♓	
inferior conj	125 Jul 03 j 14:45	9°☿18'34	-4°46'14	evening max el	126 May 18 j 11:09	19°♓32'16	24°28'22
				desc. node	126 May 26 j 03:15	25°♓04'57	

retrograde	126 Jun 01 j 09:03	26° Π 33'42		desc. node	127 May 13 j 00:17	6° Π 41'16	
evening set	126 Jun 06 j 03:05	25° Π 43'05		evening set	127 May 16 j 17:01	6° Π 17'17	
min. Earth dist.	126 Jun 11 j 22:28	22° Π 47'12	0.56852 AU	min. Earth dist.	127 May 24 j 10:52	2° Π 52'20	0.55502 AU
inferior conj	126 Jun 14 j 16:29	21° Π 01'49	-4°27'28	inferior conj	127 May 25 j 22:55	2° Π 00'26	-3°24'14
minimum elong	126 Jun 14 j 11:51	21° Π 09'15	4°26'51	minimum elong	127 May 25 j 15:35	2° Π 11'00	3°22'19
morning rise	126 Jun 22 j 23:24	16° Π 57'17			127 May 29 j 14:37	30° \mathbb{R} 8	
direct	126 Jun 25 j 14:06	16° Π 38'36		morning rise	127 Jun 03 j 16:36	28° \mathbb{S} 06'57	
morning max el	126 Jul 04 j 23:25	21° Π 00'20	19°29'01	direct	127 Jun 06 j 11:05	27° \mathbb{S} 48'55	
	126 Jul 12 j 03:09	0° \mathbb{S}			127 Jun 13 j 16:07	0° Π	
asc. node	126 Jul 13 j 13:11	2° \mathbb{S} 16'37		morning max el	127 Jun 17 j 11:08	2° Π 55'01	20°42'28
morning set	126 Jul 22 j 07:45	18° \mathbb{S} 40'14		asc. node	127 Jun 30 j 10:14	21° Π 14'35	
	126 Jul 27 j 23:09	0° \mathbb{N}			127 Jul 04 j 22:48	0° \mathbb{S}	
				morning set	127 Jul 06 j 14:04	3° \mathbb{S} 19'35	
superior conj	126 Jul 30 j 09:19	4° \mathbb{N} 48'01	1°47'03	superior conj	127 Jul 14 j 03:19	18° \mathbb{S} 55'45	1°43'18
minimum elong	126 Jul 30 j 09:22	4° \mathbb{N} 48'17	1°47'03	minimum elong	127 Jul 14 j 01:54	18° \mathbb{S} 48'30	1°43'14
max. Earth dist.	126 Aug 05 j 11:59	16° \mathbb{N} 27'57	1.37747 AU	max. Earth dist.	127 Jul 18 j 19:37	28° \mathbb{S} 17'47	1.35930 AU
evening rise	126 Aug 09 j 06:57	23° \mathbb{N} 20'04			127 Jul 19 j 16:38	0° \mathbb{N}	
	126 Aug 13 j 03:06	0° \mathbb{N}		evening rise	127 Jul 22 j 22:00	6° \mathbb{N} 07'35	
desc. node	126 Aug 22 j 02:37	14° \mathbb{N} 30'57			127 Aug 05 j 21:49	0° \mathbb{N}	
	126 Sep 01 j 20:09	0° \mathbb{S}		desc. node	127 Aug 08 j 23:38	4° \mathbb{N} 40'55	
evening max el	126 Sep 14 j 02:14	14° \mathbb{S} 33'11	25°11'22	evening max el	127 Aug 27 j 13:52	28° \mathbb{N} 10'00	26°17'01
retrograde	126 Sep 25 j 23:16	21° \mathbb{S} 25'05			127 Aug 29 j 13:31	0° \mathbb{S}	
evening set	126 Oct 01 j 18:49	18° \mathbb{S} 58'00		retrograde	127 Sep 09 j 06:14	5° \mathbb{S} 20'12	
min. Earth dist.	126 Oct 06 j 06:18	13° \mathbb{S} 56'34	0.67145 AU	evening set	127 Sep 15 j 15:56	2° \mathbb{S} 40'09	
inferior conj	126 Oct 07 j 06:26	12° \mathbb{S} 37'44	-0°46'26		127 Sep 18 j 08:10	30° \mathbb{R} 11	
minimum elong	126 Oct 07 j 07:36	12° \mathbb{S} 33'56	0°45'55	min. Earth dist.	127 Sep 19 j 19:38	28° \mathbb{N} 15'31	0.66373 AU
asc. node	126 Oct 09 j 12:23	9° \mathbb{S} 47'57		inferior conj	127 Sep 21 j 07:21	26° \mathbb{N} 25'37	-1°42'46
morning rise	126 Oct 12 j 20:30	6° \mathbb{S} 38'16		minimum elong	127 Sep 21 j 09:59	26° \mathbb{N} 17'32	1°41'43
direct	126 Oct 16 j 08:00	5° \mathbb{S} 28'19		asc. node	127 Sep 26 j 09:26	21° \mathbb{N} 07'17	
morning max el	126 Oct 23 j 16:18	9° \mathbb{S} 39'16	19°39'12	morning rise	127 Sep 27 j 04:24	20° \mathbb{N} 36'27	
	126 Nov 07 j 16:40	0° \mathbb{N}		direct	127 Sep 30 j 06:12	19° \mathbb{N} 42'35	
morning set	126 Nov 17 j 16:56	15° \mathbb{N} 20'59		morning max el	127 Oct 07 j 01:28	23° \mathbb{N} 29'38	18°47'45
desc. node	126 Nov 18 j 01:55	15° \mathbb{N} 55'47			127 Oct 12 j 09:10	0° \mathbb{S}	
	126 Nov 27 j 02:19	0° \mathbb{S}		morning set	127 Oct 28 j 08:37	24° \mathbb{S} 34'41	
max. Earth dist.	126 Nov 30 j 05:25	4° \mathbb{S} 56'47	1.44325 AU		127 Oct 31 j 18:54	0° \mathbb{N}	
superior conj	126 Dec 04 j 10:34	11° \mathbb{S} 40'48	-1°34'48	desc. node	127 Nov 04 j 22:57	6° \mathbb{N} 34'24	
minimum elong	126 Dec 04 j 02:35	11° \mathbb{S} 08'45	1°34'05	max. Earth dist.	127 Nov 12 j 22:49	19° \mathbb{N} 08'34	1.44985 AU
	126 Dec 15 j 14:21	0° \mathbb{S}		superior conj	127 Nov 13 j 14:53	20° \mathbb{N} 11'43	-0°54'55
evening rise	126 Dec 18 j 06:30	4° \mathbb{S} 29'32		minimum elong	127 Nov 13 j 08:03	19° \mathbb{N} 44'50	0°54'05
	127 Jan 03 j 06:04	0° \mathbb{S}			127 Nov 19 j 20:01	0° \mathbb{S}	
asc. node	127 Jan 05 j 11:40	2° \mathbb{S} 38'32		evening rise	127 Nov 29 j 05:17	14° \mathbb{S} 59'12	
evening max el	127 Jan 05 j 23:12	3° \mathbb{S} 08'34	18°19'34		127 Dec 08 j 13:40	0° \mathbb{S}	
retrograde	127 Jan 12 j 11:08	6° \mathbb{S} 39'53		evening max el	127 Dec 20 j 10:16	16° \mathbb{S} 33'36	18°49'28
evening set	127 Jan 15 j 09:58	5° \mathbb{S} 53'07		asc. node	127 Dec 23 j 08:42	19° \mathbb{S} 03'44	
inferior conj	127 Jan 21 j 10:30	0° \mathbb{S} 28'04	3°45'20	retrograde	127 Dec 27 j 04:39	20° \mathbb{S} 22'23	
minimum elong	127 Jan 21 j 09:09	0° \mathbb{S} 31'52	3°45'13	evening set	127 Dec 30 j 09:04	19° \mathbb{S} 24'18	
	127 Jan 21 j 20:26	30° \mathbb{R} 3		inferior conj	128 Jan 05 j 02:29	13° \mathbb{S} 41'53	3°26'00
min. Earth dist.	127 Jan 23 j 18:59	27° \mathbb{S} 49'34	0.63768 AU	minimum elong	128 Jan 05 j 00:04	13° \mathbb{S} 49'19	3°25'33
morning rise	127 Jan 27 j 07:42	24° \mathbb{S} 24'47		min. Earth dist.	128 Jan 06 j 19:39	11° \mathbb{S} 35'29	0.65295 AU
direct	127 Feb 03 j 06:35	21° \mathbb{S} 36'56		morning rise	128 Jan 10 j 14:43	7° \mathbb{S} 32'51	
desc. node	127 Feb 14 j 01:06	26° \mathbb{S} 44'18		direct	128 Jan 17 j 06:08	4° \mathbb{S} 41'01	
morning max el	127 Feb 16 j 23:38	29° \mathbb{S} 27'40	27°36'16	morning max el	128 Jan 30 j 09:29	12° \mathbb{S} 21'57	26°53'00
	127 Feb 17 j 12:28	0° \mathbb{S}		desc. node	128 Jan 31 j 22:08	13° \mathbb{S} 56'48	
	127 Mar 11 j 07:52	0° \mathbb{N}			128 Feb 13 j 13:47	0° \mathbb{S}	
morning set	127 Mar 23 j 18:04	22° \mathbb{N} 41'22			128 Mar 02 j 21:36	0° \mathbb{N}	
	127 Mar 27 j 08:34	0° \mathbb{N}		morning set	128 Mar 06 j 04:51	6° \mathbb{N} 11'56	
max. Earth dist.	127 Mar 28 j 20:57	3° \mathbb{N} 09'39	1.33237 AU	max. Earth dist.	128 Mar 10 j 14:57	14° \mathbb{N} 53'04	1.34337 AU
superior conj	127 Mar 31 j 13:40	8° \mathbb{N} 52'41	-0°30'05	superior conj	128 Mar 14 j 15:26	23° \mathbb{N} 07'34	-0°56'53
minimum elong	127 Mar 31 j 15:07	9° \mathbb{N} 00'27	0°29'47	minimum elong	128 Mar 14 j 18:09	23° \mathbb{N} 21'45	0°56'22
asc. node	127 Apr 03 j 10:58	15° \mathbb{N} 04'59			128 Mar 17 j 22:02	0° \mathbb{N}	
evening rise	127 Apr 07 j 16:57	24° \mathbb{N} 09'58		asc. node	128 Mar 20 j 08:00	5° \mathbb{N} 05'36	
	127 Apr 10 j 12:36	0° \mathbb{S}		evening rise	128 Mar 22 j 02:50	8° \mathbb{N} 49'37	
	127 Apr 29 j 23:43	0° Π			128 Apr 02 j 10:37	0° \mathbb{S}	
evening max el	127 Apr 30 j 01:58	0° Π 05'26	22°53'05	evening max el	128 Apr 10 j 22:56	10° \mathbb{S} 51'21	21°21'54
retrograde	127 May 13 j 09:08	6° Π 41'34					

































































































































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evening set	128 Apr 25 j 08:37	16°♄29'58		evening max el	129 Mar 24 j 06:45	22°♃11'15	20°04'51
desc. node	128 Apr 28 j 21:19	15°♄27'39		retrograde	129 Apr 03 j 14:49	27°♃09'00	
inferior conj	128 May 04 j 17:52	12°♄29'43	-1°39'53	evening set	129 Apr 05 j 17:06	26°♃57'40	
minimum elong	128 May 04 j 13:12	12°♄36'15	1°38'16	inferior conj	129 Apr 14 j 15:16	22°♃58'28	0°19'19
min. Earth dist.	128 May 04 j 23:38	12°♄21'35	0.54980 AU	minimum elong	129 Apr 14 j 16:08	22°♃57'10	0°19'00
morning rise	128 May 13 j 18:15	8°♄29'35		desc. node	129 Apr 15 j 18:19	22°♃17'44	
direct	128 May 16 j 21:29	8°♄08'12		min. Earth dist.	129 Apr 16 j 13:38	21°♃48'55	0.55421 AU
morning max el	128 May 29 j 12:02	14°♄07'13	22°13'26	morning rise	129 Apr 23 j 13:09	18°♃33'20	
	128 Jun 10 j 12:10	0°♄		direct	129 Apr 27 j 11:30	17°♃59'25	
asc. node	128 Jun 16 j 07:15	10°♄39'40		morning max el	129 May 11 j 04:59	24°♃46'40	23°53'57
morning set	128 Jun 19 j 23:57	18°♄10'41			129 May 16 j 00:29	0°♄	
	128 Jun 25 j 14:00	0°♄			129 Jun 02 j 23:30	0°♄	
				asc. node	129 Jun 03 j 04:18	0°♄24'46	
superior conj	128 Jun 27 j 05:23	3°♄28'17	1°33'10	morning set	129 Jun 04 j 11:37	3°♄08'10	
minimum elong	128 Jun 27 j 03:08	3°♄16'25	1°32'57				
max. Earth dist.	128 Jun 30 j 11:43	10°♄16'17	1.34452 AU	superior conj	129 Jun 11 j 12:44	18°♄16'59	1°18'00
evening rise	128 Jul 05 j 04:50	19°♄42'15		minimum elong	129 Jun 11 j 10:15	18°♄03'34	1°17'39
	128 Jul 10 j 16:43	0°♄		max. Earth dist.	129 Jun 13 j 13:14	22°♄37'07	1.33368 AU
desc. node	128 Jul 25 j 20:38	24°♄26'10			129 Jun 17 j 01:39	0°♄	
	128 Jul 29 j 22:17	0°♄		evening rise	129 Jun 18 j 23:11	3°♄51'49	
evening max el	128 Aug 09 j 01:41	11°♄39'37	27°03'57		129 Jul 03 j 10:27	0°♄	
retrograde	128 Aug 22 j 07:59	18°♄58'24		desc. node	129 Jul 12 j 17:38	13°♄36'16	
evening set	128 Aug 29 j 05:20	16°♄12'42		evening max el	129 Jul 22 j 12:40	24°♄51'36	27°25'04
min. Earth dist.	128 Sep 02 j 01:59	12°♄25'02	0.65242 AU		129 Jul 29 j 02:49	0°♄	
inferior conj	128 Sep 04 j 02:16	10°♄07'44	-2°38'08	retrograde	129 Aug 05 j 03:52	2°♄11'19	
minimum elong	128 Sep 04 j 06:13	9°♄56'30	2°36'45		129 Aug 11 j 15:36	30°♄♄	
morning rise	128 Sep 10 j 07:47	4°♄31'52		evening set	129 Aug 12 j 08:03	29°♄30'50	
asc. node	128 Sep 12 j 06:29	3°♄54'03		min. Earth dist.	129 Aug 15 j 23:24	26°♄17'00	0.63750 AU
direct	128 Sep 13 j 02:16	3°♄50'21		inferior conj	129 Aug 18 j 12:42	23°♄39'08	-3°29'41
morning max el	128 Sep 19 j 15:17	7°♄22'48	18°12'43	minimum elong	129 Aug 18 j 17:28	23°♄26'50	3°28'20
	128 Oct 05 j 00:55	0°♄		morning rise	129 Aug 25 j 03:56	18°♄19'43	
morning set	128 Oct 08 j 04:47	5°♄12'58		direct	129 Aug 27 j 17:40	17°♄47'05	
desc. node	128 Oct 21 j 19:57	27°♄18'43		asc. node	129 Aug 30 j 03:30	18°♄16'08	
				morning max el	129 Sep 03 j 07:01	21°♄13'02	17°55'02
superior conj	128 Oct 22 j 17:33	28°♄44'25	-0°05'57		129 Sep 09 j 23:06	0°♄	
minimum elong	128 Oct 22 j 16:47	28°♄41'23	0°05'51	morning set	129 Sep 20 j 03:22	17°♄07'58	
behind sun begin	128 Oct 22 j 06:27	28°♄00'25			129 Sep 27 j 15:55	0°♄	
behind sun end	128 Oct 23 j 03:06	29°♄22'18					
	128 Oct 23 j 12:37	0°♄		superior conj	129 Oct 02 j 15:01	8°♄15'14	0°39'43
max. Earth dist.	128 Oct 25 j 17:27	3°♄28'33	1.44911 AU	minimum elong	129 Oct 02 j 19:03	8°♄31'44	0°39'12
evening rise	128 Nov 08 j 04:56	24°♄32'33		max. Earth dist.	129 Oct 08 j 10:33	17°♄40'08	1.44127 AU
	128 Nov 11 j 17:11	0°♄		desc. node	129 Oct 08 j 16:59	18°♄05'50	
greatest brilliancy	128 Nov 20 j 10:51	13°♄26'30	-0.7m		129 Oct 16 j 06:38	0°♄	
evening max el	128 Dec 02 j 17:41	0°♄01'08	19°36'05	evening rise	129 Oct 18 j 13:35	3°♄32'26	
	128 Dec 02 j 17:15	0°♄			129 Nov 05 j 06:01	0°♄	
asc. node	128 Dec 09 j 05:45	4°♄12'20		evening max el	129 Nov 15 j 20:00	13°♄30'04	20°37'09
retrograde	128 Dec 10 j 01:30	4°♄16'08		retrograde	129 Nov 23 j 23:07	18°♄18'09	
evening set	128 Dec 13 j 13:03	3°♄05'12		asc. node	129 Nov 26 j 02:46	17°♄51'52	
	128 Dec 16 j 19:06	30°♄♄		evening set	129 Nov 27 j 19:50	16°♄52'21	
inferior conj	128 Dec 19 j 01:39	27°♄08'10	2°55'15	inferior conj	129 Dec 03 j 05:32	10°♄43'48	2°16'00
minimum elong	128 Dec 18 j 22:52	27°♄17'17	2°54'30	minimum elong	129 Dec 03 j 02:57	10°♄52'36	2°15'07
min. Earth dist.	128 Dec 20 j 04:38	25°♄39'52	0.66438 AU	min. Earth dist.	129 Dec 03 j 19:52	9°♄55'02	0.67203 AU
morning rise	128 Dec 24 j 08:28	20°♄55'52		morning rise	129 Dec 08 j 09:53	4°♄30'21	
direct	128 Dec 30 j 11:47	18°♄12'30		direct	129 Dec 13 j 22:39	2°♄04'12	
morning max el	129 Jan 11 j 18:42	25°♄30'11	25°44'55	morning max el	129 Dec 25 j 02:58	8°♄44'16	24°21'53
	129 Jan 15 j 21:41	0°♄		desc. node	130 Jan 04 j 16:13	21°♄22'22	
desc. node	129 Jan 17 j 19:10	2°♄15'51			130 Jan 10 j 20:40	0°♄	
	129 Feb 06 j 02:06	0°♄			130 Jan 29 j 17:25	0°♄	
morning set	129 Feb 17 j 00:59	18°♄54'08		morning set	130 Jan 30 j 00:46	0°♄31'59	
max. Earth dist.	129 Feb 20 j 20:46	26°♄03'38	1.35887 AU	max. Earth dist.	130 Feb 02 j 17:32	7°♄05'55	1.37825 AU
	129 Feb 22 j 21:45	0°♄					
				superior conj	130 Feb 09 j 16:00	20°♄02'46	-1°43'31
superior conj	129 Feb 26 j 09:19	6°♄53'52	-1°22'05	minimum elong	130 Feb 09 j 19:50	20°♄21'11	1°43'08
minimum elong	129 Feb 26 j 12:59	7°♄12'20	1°21'32		130 Feb 14 j 18:07	0°♄	
evening rise	129 Mar 06 j 08:53	23°♄11'43		evening rise	130 Feb 18 j 08:46	7°♄09'45	
asc. node	129 Mar 07 j 05:02	24°♄54'03		asc. node	130 Feb 22 j 02:05	14°♄25'13	

	130 Mar 03 j 10:36	0°♿			131 Feb 06 j 23:35	0°♿	
evening max el	130 Mar 07 j 01:40	4°♿09'43	19°06'26	asc. node	131 Feb 08 j 23:08	3°♿33'05	
retrograde	130 Mar 15 j 18:36	8°♿21'22		evening max el	131 Feb 18 j 05:24	16°♿41'26	18°27'59
evening set	130 Mar 18 j 00:09	8°♿06'01		retrograde	131 Feb 25 j 17:29	20°♿22'48	
inferior conj	130 Mar 26 j 03:54	3°♿53'34	2°00'39	evening set	131 Feb 28 j 04:15	20°♿00'26	
minimum elong	130 Mar 26 j 08:00	3°♿46'29	1°59'26	inferior conj	131 Mar 07 j 13:26	15°♿28'04	3°07'50
min. Earth dist.	130 Mar 29 j 05:03	1°♿48'35	0.56725 AU	minimum elong	131 Mar 07 j 17:14	15°♿20'24	3°07'05
	130 Apr 01 j 05:07	30°♿♿		min. Earth dist.	131 Mar 10 j 23:45	12°♿43'48	0.58602 AU
desc. node	130 Apr 02 j 15:22	29°♿18'02		morning rise	131 Mar 15 j 03:38	10°♿01'12	
morning rise	130 Apr 03 j 12:53	28°♿55'40		desc. node	131 Mar 20 j 12:25	8°♿27'14	
direct	130 Apr 08 j 13:47	27°♿56'14		direct	131 Mar 21 j 05:20	8°♿25'57	
	130 Apr 15 j 21:50	0°♿		morning max el	131 Apr 04 j 13:37	16°♿04'48	26°49'19
morning max el	130 Apr 22 j 19:32	5°♿16'12	25°31'02		131 Apr 15 j 22:02	0°♿	
	130 May 10 j 16:40	0°♿			131 May 02 j 23:13	0°♿	
morning set	130 May 19 j 23:25	18°♿06'05		morning set	131 May 04 j 09:44	2°♿58'54	
asc. node	130 May 21 j 01:20	20°♿23'26		asc. node	131 May 07 j 22:24	10°♿30'46	
	130 May 25 j 11:44	0°♿					
				superior conj	131 May 11 j 10:56	18°♿13'08	0°36'31
superior conj	130 May 26 j 23:11	3°♿13'59	0°58'51	minimum elong	131 May 11 j 09:24	18°♿04'40	0°36'12
minimum elong	130 May 26 j 20:58	3°♿01'50	0°58'26	max. Earth dist.	131 May 11 j 10:32	18°♿10'58	1.32349 AU
max. Earth dist.	130 May 27 j 22:01	5°♿18'39	1.32674 AU		131 May 16 j 20:49	0°♿	
evening rise	130 Jun 03 j 01:31	18°♿24'50		evening rise	131 May 18 j 09:10	3°♿12'29	
	130 Jun 08 j 22:07	0°♿			131 Jun 01 j 19:25	0°♿	
	130 Jun 28 j 00:24	0°♿		desc. node	131 Jun 16 j 11:41	19°♿04'00	
desc. node	130 Jun 29 j 14:40	1°♿55'55		evening max el	131 Jun 16 j 22:14	19°♿29'26	26°31'37
evening max el	130 Jul 04 j 20:26	7°♿32'01	27°14'56	retrograde	131 Jun 30 j 22:01	26°♿43'32	
retrograde	130 Jul 18 j 16:56	14°♿48'57		evening set	131 Jul 07 j 13:00	24°♿52'36	
evening set	130 Jul 25 j 20:07	12°♿26'50		min. Earth dist.	131 Jul 11 j 11:25	22°♿15'18	0.59914 AU
min. Earth dist.	130 Jul 29 j 10:28	9°♿38'34	0.61938 AU	inferior conj	131 Jul 14 j 19:22	19°♿36'09	-4°41'02
inferior conj	130 Aug 01 j 11:35	6°♿51'36	-4°13'00	minimum elong	131 Jul 14 j 21:43	19°♿31'25	4°40'50
minimum elong	130 Aug 01 j 16:04	6°♿41'18	4°12'09	morning rise	131 Jul 22 j 08:26	14°♿58'54	
morning rise	130 Aug 08 j 13:27	1°♿51'56		direct	131 Jul 24 j 20:02	14°♿36'22	
direct	130 Aug 11 j 01:01	1°♿25'20		morning max el	131 Aug 01 j 08:38	18°♿15'01	18°15'42
asc. node	130 Aug 17 j 00:33	4°♿03'54		asc. node	131 Aug 03 j 21:37	21°♿02'51	
morning max el	130 Aug 17 j 21:48	4°♿52'54	17°55'39		131 Aug 09 j 21:18	0°♿	
morning set	130 Sep 02 j 22:13	0°♿00'50		morning set	131 Aug 17 j 07:47	13°♿36'07	
	130 Sep 02 j 22:02	0°♿			131 Aug 26 j 01:48	0°♿	
superior conj	130 Sep 13 j 15:40	19°♿06'05	1°14'10	superior conj	131 Aug 26 j 17:32	1°♿11'41	1°35'40
minimum elong	130 Sep 13 j 20:33	19°♿27'05	1°13'37	minimum elong	131 Aug 26 j 20:50	1°♿26'44	1°35'24
	130 Sep 20 j 02:44	0°♿		max. Earth dist.	131 Sep 03 j 07:30	14°♿33'04	1.40896 AU
max. Earth dist.	130 Sep 20 j 23:49	1°♿26'40	1.42729 AU	evening rise	131 Sep 08 j 03:37	22°♿37'52	
desc. node	130 Sep 25 j 14:01	8°♿51'56		desc. node	131 Sep 12 j 11:02	29°♿33'39	
evening rise	130 Sep 27 j 23:46	12°♿40'22			131 Sep 12 j 17:43	0°♿	
	130 Oct 09 j 08:40	0°♿			131 Oct 03 j 09:48	0°♿	
evening max el	130 Oct 29 j 16:35	26°♿59'31	21°49'31	evening max el	131 Oct 12 j 08:00	10°♿29'56	23°08'32
	130 Nov 02 j 00:54	0°♿		retrograde	131 Oct 22 j 13:46	16°♿34'09	
retrograde	130 Nov 07 j 19:43	2°♿25'16		evening set	131 Oct 27 j 10:38	14°♿33'44	
evening set	130 Nov 12 j 03:36	0°♿42'44		asc. node	131 Oct 30 j 20:52	10°♿48'47	
asc. node	130 Nov 12 j 23:48	29°♿58'33		inferior conj	131 Nov 01 j 19:10	8°♿12'20	0°39'42
	130 Nov 12 j 23:12	30°♿♿		minimum elong	131 Nov 01 j 18:15	8°♿15'30	0°39'18
inferior conj	130 Nov 17 j 12:00	24°♿25'56	1°30'17	min. Earth dist.	131 Nov 01 j 11:34	8°♿38'29	0.67674 AU
minimum elong	130 Nov 17 j 10:04	24°♿32'36	1°29'32	morning rise	131 Nov 07 j 01:48	2°♿02'50	
min. Earth dist.	130 Nov 17 j 14:58	24°♿15'40	0.67605 AU	direct	131 Nov 11 j 08:44	0°♿21'15	
morning rise	130 Nov 22 j 16:24	18°♿13'24		morning max el	131 Nov 20 j 03:21	5°♿29'56	21°29'55
direct	130 Nov 27 j 13:56	16°♿09'04			131 Dec 08 j 16:16	0°♿	
morning max el	130 Dec 07 j 12:43	22°♿03'19	22°54'03	desc. node	131 Dec 09 j 10:19	1°♿06'51	
	130 Dec 14 j 09:34	0°♿		morning set	131 Dec 21 j 14:20	19°♿46'06	
desc. node	130 Dec 22 j 13:17	11°♿02'44			131 Dec 27 j 22:41	0°♿	
	131 Jan 04 j 04:45	0°♿		max. Earth dist.	131 Dec 28 j 14:09	1°♿03'42	1.41975 AU
morning set	131 Jan 10 j 22:02	10°♿50'13					
max. Earth dist.	131 Jan 15 j 13:14	18°♿38'50	1.39950 AU	superior conj	132 Jan 05 j 01:21	13°♿41'00	-2°01'49
	131 Jan 21 j 23:41	0°♿		minimum elong	132 Jan 05 j 00:20	13°♿36'38	2°01'49
					132 Jan 14 j 05:13	0°♿	
superior conj	131 Jan 23 j 07:09	2°♿23'10	-1°58'06	evening rise	132 Jan 16 j 01:57	3°♿23'48	
minimum elong	131 Jan 23 j 09:38	2°♿34'30	1°58'00	asc. node	132 Jan 26 j 20:12	22°♿09'19	
evening rise	131 Feb 01 j 23:40	20°♿36'47		evening max el	132 Feb 01 j 14:51	29°♿37'04	18°09'29

	132 Feb 02 j 00:24	0°♄		max. Earth dist.	132 Dec 09 j 22:21	14°♄20'16	1.43624 AU
retrograde	132 Feb 08 j 09:44	3°♄04'01					
evening set	132 Feb 11 j 01:13	2°♄33'05		superior conj	132 Dec 15 j 17:45	23°♄46'24	-1°50'01
	132 Feb 15 j 03:44	30°♄		minimum elong	132 Dec 15 j 11:50	23°♄22'02	1°49'37
inferior conj	132 Feb 17 j 18:58	27°♄39'39	3°41'47		132 Dec 19 j 11:41	0°♄	
minimum elong	132 Feb 17 j 20:43	27°♄35'34	3°41'39	evening rise	132 Dec 28 j 11:23	15°♄22'37	
min. Earth dist.	132 Feb 21 j 00:41	24°♄39'34	0.60703 AU		133 Jan 05 j 23:40	0°♄	
morning rise	132 Feb 24 j 14:26	21°♄52'49		asc. node	133 Jan 12 j 17:14	10°♄04'29	
direct	132 Mar 02 j 08:25	19°♄40'48		evening max el	133 Jan 15 j 03:05	12°♄49'17	18°10'29
desc. node	132 Mar 06 j 09:29	20°♄24'44		retrograde	133 Jan 21 j 15:02	16°♄15'33	
morning max el	132 Mar 16 j 13:55	27°♄30'11	27°36'24	evening set	133 Jan 24 j 11:02	15°♄34'56	
	132 Mar 18 j 23:32	0°♄		inferior conj	133 Jan 30 j 16:56	10°♄21'13	3°49'43
	132 Apr 08 j 13:03	0°♄		minimum elong	133 Jan 30 j 16:33	10°♄22'15	3°49'42
morning set	132 Apr 17 j 16:41	17°♄39'14		min. Earth dist.	133 Feb 02 j 10:15	7°♄29'09	0.62727 AU
	132 Apr 23 j 11:52	0°♄		morning rise	133 Feb 05 j 21:04	4°♄22'25	
asc. node	132 Apr 23 j 19:28	0°♄41'26		direct	133 Feb 12 j 20:58	1°♄43'08	
max. Earth dist.	132 Apr 23 j 22:46	0°♄59'23	1.32385 AU	desc. node	133 Feb 21 j 06:33	4°♄52'22	
				morning max el	133 Feb 26 j 19:45	9°♄36'08	27°46'37
superior conj	132 Apr 24 j 22:14	3°♄07'42	0°11'48		133 Mar 14 j 17:06	0°♄	
minimum elong	132 Apr 24 j 21:42	3°♄04'46	0°11'41		133 Mar 31 j 18:12	0°♄	
behind sun begin	132 Apr 24 j 18:16	2°♄45'58		morning set	133 Apr 01 j 18:06	1°♄59'51	
behind sun end	132 Apr 25 j 01:08	3°♄23'33		max. Earth dist.	133 Apr 07 j 06:45	13°♄30'27	1.32806 AU
evening rise	132 May 01 j 19:51	18°♄06'09					
	132 May 07 j 16:55	0°♄		superior conj	133 Apr 09 j 07:23	17°♄51'59	-0°14'34
	132 May 28 j 00:08	0°♄		minimum elong	133 Apr 09 j 08:05	17°♄55'43	0°14'24
evening max el	132 May 28 j 16:59	0°♄41'10	25°19'09	behind sun begin	133 Apr 09 j 05:53	17°♄43'49	
desc. node	132 Jun 02 j 08:42	4°♄31'14		behind sun end	133 Apr 09 j 10:17	18°♄07'38	
retrograde	132 Jun 11 j 17:42	7°♄50'35		asc. node	133 Apr 10 j 16:31	20°♄51'27	
evening set	132 Jun 17 j 07:06	6°♄38'36			133 Apr 14 j 21:57	0°♄	
min. Earth dist.	132 Jun 22 j 04:50	3°♄53'55	0.57887 AU	evening rise	133 Apr 16 j 07:39	2°♄59'23	
inferior conj	132 Jun 25 j 08:35	1°♄43'09	-4°43'07		133 May 01 j 01:39	0°♄	
minimum elong	132 Jun 25 j 06:44	1°♄46'22	4°43'01	evening max el	133 May 10 j 07:36	11°♄21'20	23°48'06
	132 Jun 27 j 22:14	30°♄		desc. node	133 May 20 j 05:45	17°♄41'33	
morning rise	132 Jul 03 j 09:03	27°♄28'14		retrograde	133 May 24 j 01:32	18°♄14'52	
direct	132 Jul 05 j 22:13	27°♄08'33		evening set	133 May 28 j 04:10	17°♄37'32	
	132 Jul 13 j 03:56	0°♄		min. Earth dist.	133 Jun 03 j 18:29	14°♄30'24	0.56189 AU
morning max el	132 Jul 14 j 12:32	1°♄10'36	18°56'16	inferior conj	133 Jun 06 j 01:38	13°♄06'33	-4°06'23
asc. node	132 Jul 20 j 18:41	8°♄58'02		minimum elong	133 Jun 05 j 19:20	13°♄16'10	4°05'11
morning set	132 Jul 31 j 03:49	27°♄42'50		morning rise	133 Jun 14 j 13:20	9°♄08'12	
	132 Aug 01 j 07:40	0°♄		direct	133 Jun 17 j 05:05	8°♄50'12	
				morning max el	133 Jun 27 j 06:41	13°♄29'48	19°57'53
superior conj	132 Aug 08 j 15:03	14°♄16'36	1°45'39	asc. node	133 Jul 07 j 15:45	27°♄36'15	
minimum elong	132 Aug 08 j 16:13	14°♄22'11	1°45'37		133 Jul 09 j 00:05	0°♄	
max. Earth dist.	132 Aug 15 j 10:45	26°♄55'13	1.38877 AU	morning set	133 Jul 15 j 07:06	12°♄12'06	
	132 Aug 17 j 04:23	0°♄					
evening rise	132 Aug 19 j 08:08	3°♄45'11		superior conj	133 Jul 23 j 02:49	28°♄04'57	1°46'19
desc. node	132 Aug 29 j 08:03	20°♄07'13		minimum elong	133 Jul 23 j 02:10	28°♄01'42	1°46'19
	132 Sep 04 j 21:20	0°♄			133 Jul 24 j 01:56	0°♄	
evening max el	132 Sep 23 j 20:18	24°♄03'40	24°28'12	max. Earth dist.	133 Jul 28 j 14:53	8°♄48'38	1.36934 AU
	132 Oct 01 j 21:43	0°♄		evening rise	133 Aug 01 j 11:54	15°♄59'43	
retrograde	132 Oct 05 j 04:13	0°♄41'30			133 Aug 09 j 14:26	0°♄	
	132 Oct 08 j 05:10	30°♄		desc. node	133 Aug 16 j 05:03	10°♄27'24	
evening set	132 Oct 10 j 15:16	28°♄23'34			133 Aug 30 j 09:21	0°♄	
min. Earth dist.	132 Oct 15 j 07:19	23°♄01'48	0.67422 AU	evening max el	133 Sep 06 j 07:50	7°♄40'32	25°41'15
inferior conj	132 Oct 16 j 01:20	22°♄01'29	-0°14'20	retrograde	133 Sep 18 j 14:06	14°♄42'06	
minimum elong	132 Oct 16 j 01:41	22°♄00'19	0°14'10	evening set	133 Sep 24 j 15:40	12°♄09'01	
transit middle	132 Oct 16 j 01:41	22°♄00'19	0°14'10	min. Earth dist.	133 Sep 28 j 23:47	7°♄22'50	0.66850 AU
transit begin	132 Oct 16 j 00:20	22°♄04'49		inferior conj	133 Sep 30 j 04:41	5°♄50'30	-1°10'19
transit end	132 Oct 16 j 03:02	21°♄55'49		minimum elong	133 Sep 30 j 06:28	5°♄44'48	1°09'34
asc. node	132 Oct 16 j 17:55	21°♄06'11		asc. node	133 Oct 03 j 14:57	1°♄47'51	
morning rise	132 Oct 21 j 12:09	15°♄57'30		morning rise	133 Oct 05 j 21:30	29°♄54'48	
direct	132 Oct 25 j 06:05	14°♄36'56			133 Oct 05 j 18:16	30°♄	
morning max el	132 Nov 02 j 01:15	19°♄06'41	20°15'46	direct	133 Oct 09 j 04:32	28°♄52'10	
	132 Nov 10 j 19:22	0°♄			133 Oct 12 j 18:44	0°♄	
desc. node	132 Nov 25 j 07:21	21°♄28'13		morning max el	133 Oct 16 j 06:34	2°♄52'11	19°15'21
morning set	132 Nov 29 j 11:54	27°♄54'56			133 Nov 04 j 11:10	0°♄	
	132 Nov 30 j 20:10	0°♄		morning set	133 Nov 08 j 14:35	6°♄26'42	

desc. node	133 Nov 12 j 04:21	12°♍01'11		superior conj	134 Nov 04 j 09:00	11°♍05'30	-0°34'29
max. Earth dist.	133 Nov 22 j 12:53	28°♍15'38	1.44690 AU	minimum elong	134 Nov 04 j 04:29	10°♍47'44	0°33'54
	133 Nov 23 j 15:18	0°♌		max. Earth dist.	134 Nov 05 j 07:20	12°♍33'17	1.45050 AU
					134 Nov 16 j 09:37	0°♌	
superior conj	133 Nov 25 j 08:20	2°♌42'36	-1°19'44	evening rise	134 Nov 20 j 12:03	6°♌28'38	
minimum elong	133 Nov 25 j 00:00	2°♌09'33	1°18'51	greatest brilliancy	134 Nov 29 j 20:30	21°♌14'44	-0.8m
evening rise	133 Dec 09 j 23:35	26°♌24'54			134 Dec 05 j 14:19	0°♌	
	133 Dec 12 j 03:36	0°♌		evening max el	134 Dec 13 j 01:06	9°♌37'10	19°07'28
evening max el	133 Dec 29 j 15:19	26°♌10'59	18°30'14	asc. node	134 Dec 17 j 11:17	13°♌00'20	
asc. node	133 Dec 30 j 14:16	27°♌06'14		retrograde	134 Dec 20 j 00:13	13°♌35'43	
retrograde	134 Jan 05 j 05:03	29°♌48'17		evening set	134 Dec 23 j 07:34	12°♌32'12	
evening set	134 Jan 08 j 06:07	28°♌56'54		inferior conj	134 Dec 28 j 22:40	6°♌43'16	3°14'07
inferior conj	134 Jan 14 j 03:20	23°♌24'28	3°38'45	minimum elong	134 Dec 28 j 20:01	6°♌51'39	3°13'32
minimum elong	134 Jan 14 j 01:26	23°♌30'01	3°38'30	min. Earth dist.	134 Dec 30 j 09:35	4°♌52'51	0.65832 AU
min. Earth dist.	134 Jan 16 j 05:21	20°♌58'18	0.64467 AU	morning rise	135 Jan 03 j 08:13	0°♌32'53	
morning rise	134 Jan 19 j 20:16	17°♌18'32			135 Jan 03 j 23:49	30°♌♌	
direct	134 Jan 26 j 16:55	14°♌26'57		direct	135 Jan 09 j 19:02	27°♌43'24	
desc. node	134 Feb 08 j 03:35	21°♌13'49			135 Jan 16 j 07:49	0°♌	
morning max el	134 Feb 09 j 04:39	22°♌14'59	27°21'23	morning max el	135 Jan 22 j 14:12	5°♌15'21	26°26'34
	134 Feb 16 j 00:45	0°♌		desc. node	135 Jan 26 j 00:36	8°♌56'48	
	134 Mar 07 j 21:45	0°♌			135 Feb 10 j 14:30	0°♌	
morning set	134 Mar 16 j 11:15	15°♌51'51		morning set	135 Feb 27 j 16:23	29°♌03'06	
max. Earth dist.	134 Mar 21 j 06:41	25°♌32'44	1.33647 AU		135 Feb 28 j 04:26	0°♌	
	134 Mar 23 j 09:59	0°♌		max. Earth dist.	135 Mar 03 j 19:36	7°♌01'04	1.34943 AU
superior conj	134 Mar 24 j 12:31	2°♌19'58	-0°41'31	superior conj	135 Mar 08 j 11:18	16°♌23'37	-1°07'52
minimum elong	134 Mar 24 j 14:32	2°♌30'35	0°41'07	minimum elong	135 Mar 08 j 14:29	16°♌39'59	1°07'19
asc. node	134 Mar 28 j 13:34	10°♌56'55		asc. node	135 Mar 15 j 10:36	0°♌52'54	
evening rise	134 Mar 31 j 18:47	17°♌46'09			135 Mar 15 j 00:24	0°♌	
	134 Apr 06 j 21:11	0°♌		evening rise	135 Mar 16 j 03:18	2°♌19'13	
evening max el	134 Apr 22 j 00:30	21°♌57'53	22°13'08		135 Apr 01 j 08:04	0°♌	
retrograde	134 May 04 j 20:38	28°♌16'22		evening max el	135 Apr 04 j 01:50	2°♌56'43	20°47'03
desc. node	134 May 07 j 02:47	28°♌05'03		retrograde	135 Apr 15 j 09:35	8°♌25'08	
evening set	134 May 07 j 16:35	27°♌58'40		evening set	135 Apr 17 j 14:07	8°♌13'40	
min. Earth dist.	134 May 16 j 07:08	24°♌17'26	0.55168 AU	desc. node	135 Apr 23 j 23:49	5°♌50'36	
inferior conj	134 May 17 j 01:56	23°♌50'57	-2°44'00	inferior conj	135 Apr 26 j 20:06	4°♌15'54	-0°49'03
minimum elong	134 May 16 j 19:05	24°♌00'37	2°41'53	minimum elong	135 Apr 26 j 17:46	4°♌19'13	0°48'13
morning rise	134 May 25 j 23:12	19°♌56'41		min. Earth dist.	135 Apr 27 j 20:03	3°♌41'41	0.55056 AU
direct	134 May 28 j 20:34	19°♌37'50		morning rise	135 May 05 j 20:49	0°♌07'25	
morning max el	134 Jun 09 j 13:37	25°♌06'25	21°19'16		135 May 06 j 10:07	30°♌♌	
	134 Jun 14 j 00:57	0°♌		direct	135 May 09 j 07:06	29°♌42'05	
asc. node	134 Jun 24 j 12:47	16°♌47'10			135 May 12 j 02:58	0°♌	
morning set	134 Jun 29 j 15:13	26°♌57'39		morning max el	135 May 22 j 10:29	6°♌02'11	22°55'37
	134 Jul 01 j 02:19	0°♌			135 Jun 08 j 03:42	0°♌	
				asc. node	135 Jun 11 j 09:50	6°♌21'36	
superior conj	134 Jul 07 j 00:40	12°♌24'41	1°39'41	morning set	135 Jun 14 j 02:06	11°♌52'20	
minimum elong	134 Jul 06 j 22:49	12°♌15'06	1°39'34				
max. Earth dist.	134 Jul 11 j 02:00	20°♌40'52	1.35261 AU	superior conj	135 Jun 21 j 05:17	27°♌04'54	1°27'18
evening rise	134 Jul 15 j 10:20	29°♌09'42		minimum elong	135 Jun 21 j 02:52	26°♌52'01	1°27'00
	134 Jul 15 j 20:58	0°♌			135 Jun 22 j 14:17	0°♌	
	134 Aug 02 j 18:26	0°♌		max. Earth dist.	135 Jun 23 j 22:34	2°♌49'37	1.33951 AU
desc. node	134 Aug 03 j 02:04	0°♌28'02		evening rise	135 Jun 28 j 22:35	13°♌00'29	
evening max el	134 Aug 19 j 19:50	21°♌16'18	26°39'46		135 Jul 08 j 02:48	0°♌	
retrograde	134 Sep 01 j 18:46	28°♌30'36		desc. node	135 Jul 20 j 23:07	19°♌59'44	
evening set	134 Sep 08 j 09:47	25°♌47'25			135 Jul 28 j 20:55	0°♌	
min. Earth dist.	134 Sep 12 j 10:31	21°♌38'21	0.65939 AU	evening max el	135 Aug 02 j 07:38	4°♌40'02	27°16'21
inferior conj	134 Sep 14 j 03:20	19°♌36'34	-2°06'31	retrograde	135 Aug 15 j 17:50	11°♌59'00	
minimum elong	134 Sep 14 j 06:33	19°♌26'57	2°05'17	evening set	135 Aug 22 j 19:01	9°♌14'02	
morning rise	134 Sep 20 j 03:47	13°♌52'23		min. Earth dist.	135 Aug 26 j 13:10	5°♌41'33	0.64659 AU
asc. node	134 Sep 20 j 11:59	13°♌41'50		inferior conj	135 Aug 28 j 18:59	3°♌14'37	-3°00'41
direct	134 Sep 23 j 02:15	13°♌04'03		minimum elong	135 Aug 28 j 23:22	3°♌02'37	2°59'15
morning max el	134 Sep 29 j 17:55	16°♌43'45	18°30'42		135 Aug 31 j 23:11	30°♌♌	
	134 Oct 09 j 13:30	0°♌		morning rise	135 Sep 04 j 04:30	27°♌45'22	
morning set	134 Oct 19 j 18:03	16°♌15'38		direct	135 Sep 06 j 20:46	27°♌07'53	
	134 Oct 28 j 08:24	0°♌		asc. node	135 Sep 07 j 09:01	27°♌09'16	
desc. node	134 Oct 30 j 01:21	2°♌42'10			135 Sep 12 j 17:53	0°♌	
				morning max el	135 Sep 13 j 08:54	0°♌36'11	18°03'01

morning set	135 Oct 01 j 02:08	27° \mathbb{M} 28'44			136 Sep 06 j 19:25	0° \mathbb{M}	
	135 Oct 02 j 14:10	0° \mathbb{L}		morning set	136 Sep 12 j 10:04	9° \mathbb{M} 49'56	
superior conj	135 Oct 14 j 17:42	19° \mathbb{L} 57'15	0°14'30	superior conj	136 Sep 24 j 02:32	0° \mathbb{L} 01'36	0°55'56
minimum elong	135 Oct 14 j 19:26	20° \mathbb{L} 04'11	0°14'17	minimum elong	136 Sep 24 j 07:21	0° \mathbb{L} 21'45	0°55'20
behind sun begin	135 Oct 14 j 14:22	19° \mathbb{L} 43'52			136 Sep 24 j 02:09	0° \mathbb{L}	
behind sun end	135 Oct 15 j 00:29	20° \mathbb{L} 24'28		max. Earth dist.	136 Sep 30 j 17:55	10° \mathbb{L} 56'13	1.43593 AU
desc. node	135 Oct 16 j 22:24	23° \mathbb{L} 27'57		desc. node	136 Oct 02 j 19:26	14° \mathbb{L} 14'51	
max. Earth dist.	135 Oct 19 j 02:16	26° \mathbb{L} 53'55	1.44664 AU	evening rise	136 Oct 09 j 10:47	24° \mathbb{L} 40'52	
	135 Oct 21 j 01:25	0° \mathbb{M}			136 Oct 12 j 21:45	0° \mathbb{M}	
evening rise	135 Oct 31 j 03:49	15° \mathbb{M} 44'02			136 Nov 02 j 16:04	0° \mathbb{M}	
	135 Nov 09 j 11:14	0° \mathbb{M}		evening max el	136 Nov 08 j 06:12	6° \mathbb{M} 33'25	21°06'48
greatest brilliancy	135 Nov 13 j 23:47	6° \mathbb{M} 47'29	-0.6m	retrograde	136 Nov 16 j 19:15	11° \mathbb{M} 37'48	
evening max el	135 Nov 26 j 06:28	23° \mathbb{M} 05'13	20°00'28	asc. node	136 Nov 20 j 05:21	10° \mathbb{M} 31'50	
retrograde	135 Dec 03 j 21:43	27° \mathbb{M} 33'33		evening set	136 Nov 20 j 20:25	10° \mathbb{M} 05'03	
asc. node	135 Dec 04 j 08:19	27° \mathbb{M} 32'26		inferior conj	136 Nov 26 j 05:21	3° \mathbb{M} 52'18	1°57'17
evening set	135 Dec 07 j 13:00	26° \mathbb{M} 16'19		minimum elong	136 Nov 26 j 03:00	4° \mathbb{M} 00'24	1°56'26
inferior conj	135 Dec 13 j 00:08	20° \mathbb{M} 13'46	2°39'29	min. Earth dist.	136 Nov 26 j 14:41	3° \mathbb{M} 20'14	0.67410 AU
minimum elong	135 Dec 12 j 21:22	20° \mathbb{M} 22'59	2°38'40		136 Nov 29 j 03:46	30° \mathbb{R} \mathbb{M}	
min. Earth dist.	135 Dec 13 j 21:26	19° \mathbb{M} 02'38	0.66805 AU	morning rise	136 Dec 01 j 09:25	27° \mathbb{M} 38'48	
morning rise	135 Dec 18 j 05:34	14° \mathbb{M} 00'49		direct	136 Dec 06 j 15:34	25° \mathbb{M} 21'45	
direct	135 Dec 24 j 02:47	11° \mathbb{M} 24'18			136 Dec 15 j 12:37	0° \mathbb{M}	
morning max el	136 Jan 04 j 23:05	18° \mathbb{M} 27'14	25°10'58	morning max el	136 Dec 17 j 07:44	1° \mathbb{M} 43'34	23°44'34
desc. node	136 Jan 12 j 21:37	27° \mathbb{M} 37'48		desc. node	136 Dec 29 j 18:40	16° \mathbb{M} 59'42	
	136 Jan 14 j 17:25	0° \mathbb{Z}			137 Jan 07 j 18:29	0° \mathbb{Z}	
	136 Feb 03 j 15:53	0° \approx		morning set	137 Jan 21 j 17:49	22° \mathbb{Z} 25'07	
morning set	136 Feb 10 j 04:38	11° \approx 19'52		max. Earth dist.	137 Jan 25 j 16:27	29° \mathbb{Z} 15'37	1.38717 AU
max. Earth dist.	136 Feb 13 j 21:22	18° \approx 05'56	1.36672 AU		137 Jan 26 j 02:29	0° \approx	
superior conj	136 Feb 20 j 00:53	29° \approx 55'00	-1°31'47	superior conj	137 Feb 02 j 01:29	12° \approx 43'47	-1°50'45
minimum elong	136 Feb 20 j 04:45	0° \mathbb{H} 14'09	1°31'17	minimum elong	137 Feb 02 j 04:58	13° \approx 00'13	1°50'30
	136 Feb 20 j 01:54	0° \mathbb{H}			137 Feb 10 j 23:59	0° \mathbb{H}	
evening rise	136 Feb 28 j 07:05	16° \mathbb{H} 32'06		evening rise	137 Feb 11 j 03:31	0° \mathbb{H} 17'12	
asc. node	136 Mar 01 j 07:39	20° \mathbb{H} 34'45		asc. node	137 Feb 16 j 04:42	9° \mathbb{H} 56'24	
	136 Mar 06 j 06:55	0° \mathbb{Y}		evening max el	137 Feb 27 j 13:22	26° \mathbb{H} 45'15	18°47'39
evening max el	136 Mar 16 j 14:26	14° \mathbb{Y} 32'33	19°37'34		137 Mar 04 j 06:01	0° \mathbb{Y}	
retrograde	136 Mar 26 j 05:09	19° \mathbb{Y} 09'38		retrograde	137 Mar 07 j 16:50	0° \mathbb{Y} 42'12	
evening set	136 Mar 28 j 08:06	18° \mathbb{Y} 57'07		evening set	137 Mar 10 j 00:24	0° \mathbb{Y} 24'18	
inferior conj	136 Apr 05 j 22:47	14° \mathbb{Y} 53'07	1°05'54		137 Mar 11 j 07:07	30° \mathbb{R} \mathbb{H}	
minimum elong	136 Apr 06 j 01:29	14° \mathbb{Y} 48'50	1°04'59	inferior conj	137 Mar 17 j 20:02	26° \mathbb{H} 04'00	2°33'30
min. Earth dist.	136 Apr 08 j 10:23	13° \mathbb{Y} 19'00	0.55882 AU	minimum elong	137 Mar 18 j 00:22	25° \mathbb{H} 56'01	2°32'24
desc. node	136 Apr 09 j 20:50	12° \mathbb{Y} 27'28		min. Earth dist.	137 Mar 21 j 03:13	23° \mathbb{H} 39'28	0.57468 AU
morning rise	136 Apr 14 j 16:18	10° \mathbb{Y} 14'16		morning rise	137 Mar 25 j 21:17	20° \mathbb{H} 52'23	
direct	136 Apr 19 j 01:15	9° \mathbb{Y} 31'26		desc. node	137 Mar 27 j 17:52	20° \mathbb{H} 11'10	
morning max el	136 May 03 j 01:50	16° \mathbb{Y} 34'19	24°36'36	direct	137 Mar 31 j 09:19	19° \mathbb{H} 38'25	
	136 May 13 j 22:11	0° \mathbb{Z}		morning max el	137 Apr 14 j 17:25	27° \mathbb{H} 08'48	26°07'32
asc. node	136 May 28 j 06:54	26° \mathbb{Z} 13'06			137 Apr 17 j 11:26	0° \mathbb{Y}	
morning set	136 May 28 j 14:03	26° \mathbb{Z} 50'44			137 May 07 j 04:52	0° \mathbb{Z}	
	136 May 30 j 01:43	0° \mathbb{H}		morning set	137 May 13 j 01:27	11° \mathbb{Z} 47'05	
				asc. node	137 May 15 j 03:59	16° \mathbb{Z} 16'00	
superior conj	136 Jun 04 j 14:14	11° \mathbb{H} 57'52	1°10'20	superior conj	137 May 20 j 01:28	26° \mathbb{Z} 56'39	0°49'44
minimum elong	136 Jun 04 j 11:48	11° \mathbb{H} 44'40	1°09'55	minimum elong	137 May 19 j 23:30	26° \mathbb{Z} 45'48	0°49'21
max. Earth dist.	136 Jun 06 j 03:34	15° \mathbb{H} 19'57	1.33029 AU	max. Earth dist.	137 May 20 j 14:12	28° \mathbb{Z} 06'23	1.32484 AU
evening rise	136 Jun 11 j 20:42	27° \mathbb{H} 20'47			137 May 21 j 10:57	0° \mathbb{H}	
	136 Jun 13 j 04:15	0° \mathbb{Z}		evening rise	137 May 27 j 01:35	12° \mathbb{H} 00'53	
	136 Jun 30 j 09:51	0° \mathbb{L}			137 Jun 05 j 08:27	0° \mathbb{Z}	
desc. node	136 Jul 06 j 20:09	8° \mathbb{L} 50'21		desc. node	137 Jun 23 j 17:10	26° \mathbb{Z} 42'54	
evening max el	136 Jul 14 j 17:21	17° \mathbb{L} 39'03	27°24'36		137 Jun 26 j 21:50	0° \mathbb{L}	
retrograde	136 Jul 28 j 10:57	24° \mathbb{L} 58'04		evening max el	137 Jun 26 j 22:44	0° \mathbb{L} 02'09	27°00'29
evening set	136 Aug 04 j 16:02	22° \mathbb{L} 23'18		retrograde	137 Jul 10 j 21:14	7° \mathbb{L} 18'48	
min. Earth dist.	136 Aug 08 j 06:04	19° \mathbb{L} 22'04	0.63019 AU	evening set	137 Jul 17 j 20:38	5° \mathbb{L} 08'24	
inferior conj	136 Aug 11 j 00:52	16° \mathbb{L} 38'21	-3°49'26	min. Earth dist.	137 Jul 21 j 12:50	2° \mathbb{L} 26'52	0.61089 AU
minimum elong	136 Aug 11 j 05:42	16° \mathbb{L} 26'29	3°48'15		137 Jul 24 j 08:55	30° \mathbb{R} \mathbb{Z}	
morning rise	136 Aug 17 j 20:36	11° \mathbb{L} 27'19		inferior conj	137 Jul 24 j 17:50	29° \mathbb{Z} 40'32	-4°27'20
direct	136 Aug 20 j 09:06	10° \mathbb{L} 57'35		minimum elong	137 Jul 24 j 21:41	29° \mathbb{Z} 32'11	4°26'47
asc. node	136 Aug 24 j 06:05	12° \mathbb{L} 09'06		morning rise	137 Aug 01 j 00:28	24° \mathbb{Z} 50'22	
morning max el	136 Aug 27 j 00:40	14° \mathbb{L} 22'57	17°53'02				

direct	137 Aug 03 j 11:38	24°  25'51		asc. node	138 Jul 29 j 00:14	15°  54'08	
morning max el	137 Aug 10 j 14:15	27°  57'07	18°01'42		138 Aug 06 j 11:32	0° 	
asc. node	137 Aug 11 j 03:10	28°  29'27		morning set	138 Aug 10 j 02:21	6°  53'00	
	137 Aug 12 j 11:44	0° 					
morning set	137 Aug 26 j 11:50	23°  02'46		superior conj	138 Aug 19 j 01:31	23°  059'12	1°41'10
	137 Aug 30 j 06:16	0° 		minimum elong	138 Aug 19 j 03:55	24°  010'22	1°41'02
					138 Aug 22 j 08:13	0° 	
superior conj	137 Sep 05 j 14:35	11°  026'27	1°24'49	max. Earth dist.	138 Aug 26 j 09:50	7°  012'43	1.40052 AU
minimum elong	137 Sep 05 j 18:58	11°  045'45	1°24'22	evening rise	138 Aug 30 j 17:12	14°  033'16	
max. Earth dist.	137 Sep 13 j 04:20	24°  025'14	1.41986 AU	desc. node	138 Sep 06 j 13:31	25°  038'49	
	137 Sep 16 j 13:48	0° 			138 Sep 09 j 08:47	0° 	
evening rise	137 Sep 19 j 03:01	4°  006'15			138 Oct 01 j 05:59	0° 	
desc. node	137 Sep 19 j 16:29	4°  059'51		evening max el	138 Oct 04 j 14:25	3°  035'32	23°42'46
	137 Oct 06 j 06:35	0° 		retrograde	138 Oct 15 j 07:30	9°  054'23	
evening max el	137 Oct 22 j 00:26	20°  003'11	22°22'39	evening set	138 Oct 20 j 10:16	7°  046'36	
retrograde	137 Oct 31 j 14:59	25°  045'53		asc. node	138 Oct 24 j 23:26	2°  032'20	
evening set	137 Nov 05 j 04:04	23°  056'04		inferior conj	138 Oct 25 j 19:20	1°  024'38	0°17'09
asc. node	137 Nov 07 j 02:23	22°  002'40		minimum elong	138 Oct 25 j 18:55	1°  026'02	0°16'57
inferior conj	137 Nov 10 j 12:22	17°  036'49	1°09'21	min. Earth dist.	138 Oct 25 j 07:24	2°  005'17	0.67613 AU
minimum elong	137 Nov 10 j 10:50	17°  042'09	1°08'43		138 Oct 26 j 20:22	30°  000'00	
min. Earth dist.	137 Nov 10 j 10:51	17°  042'05	0.67674 AU	morning rise	138 Oct 31 j 03:30	25°  017'06	
morning rise	137 Nov 15 j 17:26	11°  025'00		direct	138 Nov 04 j 04:47	23°  044'31	
direct	137 Nov 20 j 08:37	9°  030'16		morning max el	138 Nov 12 j 12:28	28°  035'14	20°56'46
morning max el	137 Nov 29 j 19:03	15°  005'01	22°17'13		138 Nov 13 j 20:38	0° 	
	137 Dec 11 j 19:55	0° 		desc. node	138 Dec 03 j 12:46	27°  003'22	
desc. node	137 Dec 16 j 15:44	6°  000'51'06			138 Dec 05 j 11:31	0° 	
	137 Dec 31 j 19:06	0° 		morning set	138 Dec 12 j 08:29	10°  000'34'59	
morning set	138 Jan 02 j 02:28	2°  006'34		max. Earth dist.	138 Dec 20 j 17:17	23°  000'55'01	1.42742 AU
max. Earth dist.	138 Jan 07 j 13:09	11°  006'27	1.40842 AU		138 Dec 24 j 10:04	0° 	
superior conj	138 Jan 15 j 08:22	24°  038'51	-2°01'18	superior conj	138 Dec 27 j 16:05	5°  027'13	-1°58'58
minimum elong	138 Jan 15 j 09:38	24°  044'32	2°01'17	minimum elong	138 Dec 27 j 13:01	5°  034'14	1°58'52
	138 Jan 18 j 07:29	0° 		evening rise	139 Jan 08 j 09:05	25°  035'02	
evening rise	138 Jan 25 j 13:28	13°  000'27'30			139 Jan 10 j 15:54	0° 	
asc. node	138 Feb 03 j 01:44	28°  000'51'28		asc. node	139 Jan 20 j 22:45	17°  000'11'38	
	138 Feb 03 j 18:21	0° 		evening max el	139 Jan 25 j 07:00	22°  000'32'19	18°07'36
evening max el	138 Feb 10 j 19:57	9°  000'28'08	18°17'45	retrograde	139 Jan 31 j 21:34	25°  000'57'07	
retrograde	138 Feb 17 j 23:13	13°  000'01'08		evening set	139 Feb 03 j 15:06	25°  000'22'00	
evening set	138 Feb 20 j 12:08	12°  000'35'15		inferior conj	139 Feb 10 j 03:21	20°  000'19'39	3°47'53
inferior conj	138 Feb 27 j 14:20	7°  000'54'15	3°25'55	minimum elong	139 Feb 10 j 04:09	20°  000'17'42	3°47'50
minimum elong	138 Feb 27 j 17:21	7°  000'47'44	3°25'28	min. Earth dist.	139 Feb 13 j 04:22	17°  000'20'37	0.61591 AU
min. Earth dist.	138 Mar 03 j 00:15	4°  000'59'55	0.59490 AU	morning rise	139 Feb 16 j 15:51	14°  000'27'17	
morning rise	138 Mar 06 j 20:18	2°  000'17'53		direct	139 Feb 23 j 13:44	12°  000'02'11	
direct	138 Mar 13 j 06:27	0°  000'26'01		desc. node	139 Mar 01 j 11:57	13°  000'36'42	
desc. node	138 Mar 14 j 14:55	0°  000'30'52		morning max el	139 Mar 09 j 16:28	19°  000'53'03	27°45'23
morning max el	138 Mar 27 j 13:46	8°  000'10'27	27°13'40		139 Mar 18 j 08:26	0° 	
	138 Apr 13 j 02:57	0° 			139 Apr 05 j 23:37	0° 	
morning set	138 Apr 27 j 10:31	26°  000'00'34'52		morning set	139 Apr 11 j 15:23	11°  000'00'07'49	
	138 Apr 29 j 01:31	0° 		max. Earth dist.	139 Apr 17 j 13:54	23°  000'00'41'08	1.32517 AU
asc. node	138 May 02 j 01:02	6°  000'08'24'58					
max. Earth dist.	138 May 04 j 02:54	10°  000'08'57'44	1.32312 AU	superior conj	139 Apr 18 j 23:48	26°  000'00'45'27	0°00'46
				minimum elong	139 Apr 18 j 23:46	26°  000'00'45'15	0°00'46
superior conj	138 May 04 j 13:13	11°  000'08'54'23	0°26'17	behind sun begin	139 Apr 18 j 18:41	26°  000'00'17'30	
minimum elong	138 May 04 j 12:04	11°  000'08'48'04	0°26'03	behind sun end	139 Apr 19 j 04:52	27°  000'00'13'02	
evening rise	138 May 11 j 10:44	26°  000'08'51'49		asc. node	139 Apr 18 j 22:04	26°  000'00'35'55	
	138 May 12 j 22:48	0° 			139 Apr 20 j 11:26	0° 	
	138 May 30 j 02:18	0° 		evening rise	139 Apr 25 j 22:08	11°  000'08'46'34	
evening max el	138 Jun 08 j 21:44	11°  000'08'40'32	26°04'05		139 May 05 j 05:22	0° 	
desc. node	138 Jun 10 j 14:12	13°  000'08'12'27		evening max el	139 May 21 j 14:16	22°  000'00'36'39	24°41'55
retrograde	138 Jun 22 j 22:42	18°  000'08'53'01		desc. node	139 May 28 j 11:12	27°  000'00'46'18	
evening set	138 Jun 29 j 04:08	17°  000'08'18'40		retrograde	139 Jun 04 j 13:03	29°  000'00'40'25	
min. Earth dist.	138 Jul 03 j 10:29	14°  000'08'40'09	0.59030 AU	evening set	139 Jun 09 j 12:25	28°  000'00'44'29	
inferior conj	138 Jul 06 j 18:10	12°  000'08'10'43	-4°45'53	min. Earth dist.	139 Jun 15 j 01:40	25°  000'00'51'59	0.57109 AU
minimum elong	138 Jul 06 j 18:57	12°  000'08'09'14	4°45'52	inferior conj	139 Jun 17 j 22:47	23°  000'00'59'33	-4°33'01
morning rise	138 Jul 14 j 12:01	7°  000'08'42'52		minimum elong	139 Jun 17 j 18:51	24°  000'00'06'00	4°32'34
direct	138 Jul 17 j 00:04	7°  000'08'21'42		morning rise	139 Jun 26 j 04:02	19°  000'00'52'36	
morning max el	138 Jul 24 j 22:29	11°  000'08'09'06	18°30'18	direct	139 Jun 28 j 18:23	19°  000'00'33'39	

morning max el	139 Jul 07 j 22:23	23° Π 49'40	19°19'53	morning max el	140 Jun 19 j 11:48	5° Π 50'46	20°30'23
	139 Jul 13 j 03:52	0° \mathfrak{E}		asc. node	140 Jul 01 j 18:20	23° Π 01'52	
asc. node	139 Jul 15 j 21:18	4° \mathfrak{E} 08'55			140 Jul 05 j 10:23	0° \mathfrak{E}	
morning set	139 Jul 25 j 01:49	21° \mathfrak{E} 10'25		morning set	140 Jul 08 j 07:24	5° \mathfrak{E} 47'15	
	139 Jul 29 j 11:44	0° Ω					
superior conj	139 Aug 02 j 05:41	7° Ω 24'12	1°46'56	superior conj	140 Jul 15 j 22:11	21° \mathfrak{E} 27'19	1°44'19
minimum elong	139 Aug 02 j 06:00	7° Ω 25'48	1°46'57	minimum elong	140 Jul 15 j 20:57	21° \mathfrak{E} 21'02	1°44'16
max. Earth dist.	139 Aug 08 j 13:10	19° Ω 21'42	1.38036 AU		140 Jul 20 j 05:00	0° Ω	
evening rise	139 Aug 12 j 08:04	26° Ω 10'08		max. Earth dist.	140 Jul 20 j 19:39	1° Ω 11'15	1.36176 AU
	139 Aug 14 j 12:56	0° \mathfrak{N}		evening rise	140 Jul 24 j 20:19	8° Ω 49'26	
desc. node	139 Aug 24 j 10:31	16° \mathfrak{N} 07'27			140 Aug 06 j 04:47	0° \mathfrak{N}	
	139 Sep 02 j 22:10	0° \mathfrak{A}		desc. node	140 Aug 10 j 07:32	6° \mathfrak{N} 20'25	
evening max el	139 Sep 17 j 02:13	17° \mathfrak{A} 11'04	25°00'27		140 Aug 28 j 18:18	0° \mathfrak{A}	
retrograde	139 Sep 28 j 19:55	23° \mathfrak{A} 59'34		evening max el	140 Aug 29 j 13:44	0° \mathfrak{A} 48'03	26°08'17
evening set	139 Oct 04 j 13:19	21° \mathfrak{A} 34'39		retrograde	140 Sep 11 j 03:44	7° \mathfrak{A} 56'39	
min. Earth dist.	139 Oct 09 j 01:56	16° \mathfrak{A} 28'01	0.67229 AU	evening set	140 Sep 17 j 11:22	5° \mathfrak{A} 18'06	
inferior conj	139 Oct 10 j 00:30	15° \mathfrak{A} 13'50	-0°37'55	min. Earth dist.	140 Sep 21 j 16:09	0° \mathfrak{A} 47'54	0.66505 AU
minimum elong	139 Oct 10 j 01:26	15° \mathfrak{A} 10'43	0°37'31		140 Sep 22 j 07:37	30° \mathfrak{R} \mathfrak{N}	
asc. node	139 Oct 11 j 20:29	12° \mathfrak{A} 52'50		inferior conj	140 Sep 23 j 02:06	29° \mathfrak{N} 02'20	-1°34'15
morning rise	139 Oct 15 j 13:40	9° \mathfrak{A} 13'12		minimum elong	140 Sep 23 j 04:31	28° \mathfrak{N} 54'51	1°33'16
direct	139 Oct 19 j 02:46	8° \mathfrak{A} 00'39		asc. node	140 Sep 27 j 17:31	24° \mathfrak{N} 01'12	
morning max el	139 Oct 26 j 13:38	12° \mathfrak{A} 16'00	19°48'12	morning rise	140 Sep 28 j 22:01	23° \mathfrak{N} 11'26	
	139 Nov 08 j 21:54	0° \mathfrak{M}		direct	140 Oct 02 j 01:03	22° \mathfrak{N} 15'29	
desc. node	139 Nov 20 j 09:47	17° \mathfrak{M} 30'14		morning max el	140 Oct 08 j 21:56	26° \mathfrak{N} 05'43	18°54'25
morning set	139 Nov 21 j 05:05	18° \mathfrak{M} 44'46			140 Oct 12 j 07:06	0° \mathfrak{A}	
	139 Nov 28 j 10:31	0° \mathfrak{X}		morning set	140 Oct 30 j 16:59	27° \mathfrak{A} 46'45	
max. Earth dist.	139 Dec 03 j 05:01	7° \mathfrak{X} 32'15	1.44162 AU		140 Nov 01 j 02:49	0° \mathfrak{M}	
superior conj	139 Dec 07 j 20:53	15° \mathfrak{X} 00'46	-1°39'24	desc. node	140 Nov 06 j 06:48	8° \mathfrak{M} 07'38	
minimum elong	139 Dec 07 j 13:18	14° \mathfrak{X} 30'07	1°38'46	max. Earth dist.	140 Nov 14 j 21:44	21° \mathfrak{M} 40'19	1.44931 AU
	139 Dec 16 j 23:14	0° \mathfrak{Z}		superior conj	140 Nov 16 j 03:23	23° \mathfrak{M} 37'00	-1°01'50
evening rise	139 Dec 21 j 09:57	7° \mathfrak{Z} 30'41		minimum elong	140 Nov 15 j 19:56	23° \mathfrak{M} 07'42	1°00'57
	140 Jan 04 j 03:22	0° \mathfrak{A}			140 Nov 20 j 04:22	0° \mathfrak{X}	
asc. node	140 Jan 07 j 19:47	4° \mathfrak{A} 45'35		evening rise	140 Dec 01 j 12:18	18° \mathfrak{X} 08'58	
evening max el	140 Jan 08 j 19:30	5° \mathfrak{A} 48'56	18°16'38		140 Dec 08 j 19:52	0° \mathfrak{Z}	
retrograde	140 Jan 15 j 07:12	9° \mathfrak{A} 18'44		evening max el	140 Dec 22 j 06:55	19° \mathfrak{Z} 13'03	18°43'56
evening set	140 Jan 18 j 05:16	8° \mathfrak{A} 33'36		asc. node	140 Dec 24 j 16:48	21° \mathfrak{Z} 20'43	
inferior conj	140 Jan 24 j 07:05	3° \mathfrak{A} 11'21	3°47'01	retrograde	140 Dec 28 j 23:57	22° \mathfrak{Z} 58'39	
minimum elong	140 Jan 24 j 05:58	3° \mathfrak{A} 14'28	3°46'56	evening set	141 Jan 01 j 03:24	22° \mathfrak{Z} 02'26	
min. Earth dist.	140 Jan 26 j 17:52	0° \mathfrak{A} 28'52	0.63506 AU	inferior conj	141 Jan 06 j 21:44	16° \mathfrak{Z} 22'32	3°29'42
	140 Jan 27 j 04:45	30° \mathfrak{R} \mathfrak{Z}		minimum elong	141 Jan 06 j 19:26	16° \mathfrak{Z} 29'32	3°29'19
morning rise	140 Jan 30 j 05:56	27° \mathfrak{Z} 09'01		min. Earth dist.	141 Jan 08 j 17:11	14° \mathfrak{Z} 10'39	0.65093 AU
direct	140 Feb 06 j 05:15	24° \mathfrak{Z} 23'00		morning rise	141 Jan 12 j 11:03	10° \mathfrak{Z} 14'08	
desc. node	140 Feb 16 j 08:59	28° \mathfrak{Z} 57'06		direct	141 Jan 19 j 04:00	7° \mathfrak{Z} 21'51	
	140 Feb 17 j 14:42	0° \mathfrak{A}		morning max el	141 Feb 01 j 09:48	15° \mathfrak{Z} 05'22	27°01'10
morning max el	140 Feb 20 j 00:04	2° \mathfrak{A} 14'43	27°40'05	desc. node	141 Feb 02 j 06:01	15° \mathfrak{Z} 56'55	
	140 Mar 11 j 14:53	0° \mathfrak{X}			141 Feb 13 j 15:45	0° \mathfrak{A}	
morning set	140 Mar 25 j 13:38	25° \mathfrak{X} 17'16			141 Mar 04 j 08:06	0° \mathfrak{X}	
	140 Mar 27 j 21:33	0° \mathfrak{Y}		morning set	141 Mar 09 j 02:11	8° \mathfrak{X} 53'36	
max. Earth dist.	140 Mar 30 j 19:09	6° \mathfrak{Y} 02'13	1.33114 AU	max. Earth dist.	141 Mar 13 j 14:39	17° \mathfrak{X} 49'52	1.34143 AU
superior conj	140 Apr 02 j 07:27	11° \mathfrak{Y} 23'09	-0°25'59	superior conj	141 Mar 17 j 10:09	25° \mathfrak{X} 41'23	-0°52'53
minimum elong	140 Apr 02 j 08:42	11° \mathfrak{Y} 29'51	0°25'43	minimum elong	141 Mar 17 j 12:42	25° \mathfrak{X} 54'41	0°52'24
asc. node	140 Apr 04 j 19:06	16° \mathfrak{Y} 44'24			141 Mar 19 j 11:21	0° \mathfrak{Y}	
evening rise	140 Apr 09 j 09:52	26° \mathfrak{Y} 37'39		asc. node	141 Mar 22 j 16:08	6° \mathfrak{Y} 46'10	
	140 Apr 11 j 00:36	0° \mathfrak{X}		evening rise	141 Mar 24 j 20:06	11° \mathfrak{Y} 19'02	
	140 Apr 29 j 04:51	0° \mathfrak{I}			141 Apr 03 j 14:20	0° \mathfrak{X}	
evening max el	140 May 02 j 04:42	3° \mathfrak{I} 10'11	23°07'13	evening max el	141 Apr 14 j 00:27	13° \mathfrak{X} 52'53	21°34'47
desc. node	140 May 14 j 08:13	9° \mathfrak{I} 47'55		retrograde	141 Apr 26 j 06:56	19° \mathfrak{X} 51'47	
retrograde	140 May 15 j 15:11	9° \mathfrak{I} 51'41		evening set	141 Apr 28 j 17:53	19° \mathfrak{X} 38'07	
evening set	140 May 19 j 03:40	9° \mathfrak{I} 24'30		desc. node	141 May 01 j 05:15	18° \mathfrak{X} 58'45	
min. Earth dist.	140 May 26 j 14:13	6° \mathfrak{I} 04'30	0.55656 AU	inferior conj	141 May 08 j 03:41	15° \mathfrak{X} 36'26	-1°57'28
inferior conj	140 May 28 j 07:43	5° \mathfrak{I} 03'59	-3°36'49	minimum elong	141 May 07 j 22:18	15° \mathfrak{X} 43'58	1°55'39
minimum elong	140 May 28 j 00:30	5° \mathfrak{I} 14'34	3°35'02	min. Earth dist.	141 May 08 j 03:04	15° \mathfrak{X} 37'17	0.54997 AU
morning rise	140 Jun 05 j 23:57	1° \mathfrak{I} 09'51		morning rise	141 May 17 j 03:28	11° \mathfrak{X} 38'20	
direct	140 Jun 08 j 17:35	0° \mathfrak{I} 51'57		direct	141 May 20 j 04:50	11° \mathfrak{X} 17'50	
				morning max el	141 Jun 01 j 14:14	17° \mathfrak{X} 09'14	21°59'01

	141 Jun 11 j 16:51	0°♂		transit begin	142 Apr 17 j 19:58	26°♂09'40	
asc. node	141 Jun 18 j 15:23	12°♂23'27		transit end	142 Apr 18 j 03:59	25°♂57'49	
morning set	141 Jun 22 j 16:52	20°♂36'56		desc. node	142 Apr 18 j 02:16	26°♂00'21	
	141 Jun 27 j 03:40	0°♂		min. Earth dist.	142 Apr 19 j 16:52	25°♂03'22	0.55295 AU
				morning rise	142 Apr 26 j 22:52	21°♂43'27	
superior conj	141 Jun 29 j 23:14	5°♂56'45	1°35'04	direct	142 Apr 30 j 17:52	21°♂12'06	
minimum elong	141 Jun 29 j 21:04	5°♂45'24	1°34'51	morning max el	142 May 14 j 08:04	27°♂52'45	23°38'46
max. Earth dist.	141 Jul 03 j 10:17	13°♂07'03	1.34647 AU		142 May 16 j 10:34	0°♂	
evening rise	141 Jul 08 j 01:07	22°♂18'05			142 Jun 04 j 11:40	0°♂	
	141 Jul 12 j 03:20	0°♂		asc. node	142 Jun 05 j 12:27	2°♂06'21	
desc. node	141 Jul 28 j 04:35	26°♂10'00		morning set	142 Jun 07 j 04:26	5°♂34'17	
	141 Jul 30 j 22:20	0°♂					
evening max el	141 Aug 12 j 01:37	14°♂19'32	26°58'30	superior conj	142 Jun 14 j 06:00	20°♂43'55	1°20'36
retrograde	141 Aug 25 j 06:19	21°♂37'40		minimum elong	142 Jun 14 j 03:30	20°♂30'32	1°20'15
evening set	141 Sep 01 j 02:06	18°♂52'23		max. Earth dist.	142 Jun 16 j 10:40	25°♂25'27	1.33509 AU
min. Earth dist.	141 Sep 04 j 23:46	14°♂59'08	0.65430 AU		142 Jun 18 j 14:55	0°♂	
inferior conj	141 Sep 06 j 22:04	12°♂45'40	-2°29'58	evening rise	142 Jun 21 j 18:04	6°♂23'40	
minimum elong	141 Sep 07 j 01:50	12°♂34'48	2°28'35		142 Jul 04 j 17:09	0°♂	
morning rise	141 Sep 13 j 02:14	7°♂07'29		desc. node	142 Jul 15 j 01:37	15°♂26'22	
asc. node	141 Sep 14 j 14:34	6°♂33'34		evening max el	142 Jul 25 j 13:01	27°♂35'26	27°23'46
direct	141 Sep 15 j 21:38	6°♂24'22			142 Jul 28 j 06:11	0°♂	
morning max el	141 Sep 22 j 11:11	9°♂58'34	18°16'51	retrograde	142 Aug 08 j 03:02	4°♂54'47	
	141 Oct 06 j 08:36	0°♂		evening set	142 Aug 15 j 06:37	2°♂12'52	
morning set	141 Oct 11 j 08:52	8°♂12'28			142 Aug 17 j 20:08	30°♂♂	
desc. node	141 Oct 24 j 03:51	28°♂51'17		min. Earth dist.	142 Aug 18 j 22:39	28°♂54'18	0.63999 AU
	141 Oct 24 j 21:10	0°♂		inferior conj	142 Aug 21 j 09:58	26°♂19'04	-3°22'19
				minimum elong	142 Aug 21 j 14:40	26°♂06'45	3°20'55
superior conj	141 Oct 26 j 04:50	2°♂05'24	-0°13'26	morning rise	142 Aug 27 j 23:41	20°♂56'52	
minimum elong	141 Oct 26 j 03:06	1°♂58'30	0°13'11	direct	142 Aug 30 j 14:01	20°♂23'01	
behind sun begin	141 Oct 25 j 20:32	1°♂32'33		asc. node	142 Sep 01 j 11:37	20°♂41'22	
behind sun end	141 Oct 26 j 09:39	2°♂24'27		morning max el	142 Sep 06 j 02:48	23°♂49'21	17°56'30
max. Earth dist.	141 Oct 28 j 16:14	5°♂59'38	1.44972 AU		142 Sep 11 j 01:29	0°♂	
evening rise	141 Nov 11 j 15:07	27°♂49'45		morning set	142 Sep 23 j 03:52	19°♂57'01	
	141 Nov 13 j 00:29	0°♂			142 Sep 29 j 01:28	0°♂	
greatest brilliancy	141 Nov 23 j 04:38	15°♂46'24	-0.7m				
	141 Dec 03 j 06:09	0°♂		superior conj	142 Oct 05 j 22:34	11°♂24'39	0°33'27
evening max el	141 Dec 05 j 15:03	2°♂40'31	19°28'11	minimum elong	142 Oct 06 j 02:08	11°♂39'09	0°32'58
asc. node	141 Dec 11 j 13:51	6°♂41'52		desc. node	142 Oct 11 j 00:54	19°♂38'04	
retrograde	141 Dec 12 j 20:24	6°♂50'56		max. Earth dist.	142 Oct 11 j 09:58	20°♂14'11	1.44290 AU
evening set	141 Dec 16 j 06:49	5°♂42'00			142 Oct 17 j 14:41	0°♂	
inferior conj	141 Dec 21 j 20:01	29°♂47'05	3°00'28	evening rise	142 Oct 22 j 01:06	6°♂52'15	
minimum elong	141 Dec 21 j 17:15	29°♂56'05	2°59'47		142 Nov 06 j 09:25	0°♂	
	141 Dec 21 j 16:03	30°♂♂		evening max el	142 Nov 18 j 18:15	16°♂09'25	20°27'17
min. Earth dist.	141 Dec 23 j 01:03	28°♂12'53	0.66297 AU	retrograde	142 Nov 26 j 18:03	20°♂52'02	
morning rise	141 Dec 27 j 03:26	23°♂35'14		asc. node	142 Nov 28 j 10:54	20°♂35'35	
direct	142 Jan 02 j 08:51	20°♂49'51		evening set	142 Nov 30 j 13:19	19°♂28'28	
morning max el	142 Jan 14 j 19:04	28°♂11'40	25°56'13	inferior conj	142 Dec 05 j 23:21	13°♂21'25	2°22'23
	142 Jan 16 j 12:36	0°♂		minimum elong	142 Dec 05 j 20:42	13°♂30'23	2°21'32
desc. node	142 Jan 20 j 03:03	4°♂07'09		min. Earth dist.	142 Dec 06 j 15:26	12°♂26'55	0.67113 AU
	142 Feb 07 j 09:34	0°♂		morning rise	142 Dec 11 j 03:54	7°♂08'08	
morning set	142 Feb 20 j 00:52	21°♂44'02		direct	142 Dec 16 j 18:56	4°♂39'08	
max. Earth dist.	142 Feb 23 j 22:11	29°♂04'06	1.35626 AU	morning max el	142 Dec 28 j 03:25	11°♂25'13	24°34'50
	142 Feb 24 j 09:46	0°♂		desc. node	143 Jan 07 j 00:06	23°♂07'27	
					143 Jan 12 j 00:21	0°♂	
superior conj	142 Mar 01 j 05:27	9°♂32'49	-1°18'26		143 Jan 31 j 03:13	0°♂	
minimum elong	142 Mar 01 j 09:01	9°♂50'51	1°17'54	morning set	143 Feb 02 j 04:07	3°♂32'35	
evening rise	142 Mar 09 j 02:53	25°♂44'24		max. Earth dist.	143 Feb 05 j 20:09	10°♂06'28	1.37519 AU
asc. node	142 Mar 09 j 13:11	26°♂36'56					
	142 Mar 11 j 05:23	0°♂		superior conj	143 Feb 12 j 14:06	22°♂48'07	-1°40'37
evening max el	142 Mar 27 j 06:40	25°♂07'49	20°15'18	minimum elong	143 Feb 12 j 17:58	23°♂06'56	1°40'13
	142 Apr 04 j 15:13	0°♂			143 Feb 16 j 06:08	0°♂	
retrograde	142 Apr 06 j 20:52	0°♂13'14		evening rise	143 Feb 21 j 03:55	9°♂46'44	
evening set	142 Apr 08 j 23:23	0°♂02'03		asc. node	143 Feb 24 j 10:15	16°♂11'10	
	142 Apr 09 j 03:52	30°♂♂			143 Mar 04 j 08:10	0°♂	
inferior conj	142 Apr 17 j 23:54	26°♂03'52	0°01'42	evening max el	143 Mar 10 j 00:01	7°♂00'30	19°13'53
minimum elong	142 Apr 17 j 23:58	26°♂03'45	0°01'40	retrograde	143 Mar 18 j 22:14	11°♂18'18	
transit middle	142 Apr 17 j 23:58	26°♂03'45	0°01'40	evening set	143 Mar 21 j 03:04	11°♂03'45	

inferior conj	143 Mar 29 j 09:41	6°♂53'41	1°47'17	minimum elong	144 Mar 09 j 20:01	18°♂14'04	2°59'03
minimum elong	143 Mar 29 j 13:32	6°♂47'11	1°46'06	min. Earth dist.	144 Mar 13 j 01:56	15°♂42'07	0.58299 AU
min. Earth dist.	143 Apr 01 j 07:51	4°♂56'25	0.56484 AU	morning rise	144 Mar 17 j 09:06	12°♂58'42	
desc. node	143 Apr 04 j 23:18	2°♂50'04		desc. node	144 Mar 21 j 20:20	11°♂34'38	
morning rise	143 Apr 06 j 21:08	2°♂00'49		direct	144 Mar 23 j 07:25	11°♂29'09	
direct	143 Apr 11 j 17:53	1°♂06'10		morning max el	144 Apr 06 j 15:57	19°♂06'08	26°39'27
morning max el	143 Apr 25 j 22:36	8°♂21'56	25°17'26		144 Apr 15 j 20:57	0°♂	
	143 May 11 j 23:45	0°♂			144 May 03 j 11:32	0°♂	
morning set	143 May 22 j 16:21	20°♂32'42		morning set	144 May 06 j 02:59	5°♂26'26	
asc. node	143 May 23 j 09:31	22°♂03'28		asc. node	144 May 09 j 06:35	12°♂09'36	
	143 May 27 j 01:52	0°♂					
superior conj	143 May 29 j 16:08	5°♂40'07	1°01'59	superior conj	144 May 13 j 03:47	20°♂39'07	0°40'05
minimum elong	143 May 29 j 13:51	5°♂27'37	1°01'35	minimum elong	144 May 13 j 02:07	20°♂29'57	0°39'45
max. Earth dist.	143 May 30 j 18:42	8°♂04'55	1.32757 AU	max. Earth dist.	144 May 13 j 06:49	20°♂55'45	1.32372 AU
evening rise	143 Jun 05 j 19:25	20°♂53'50		evening rise	144 May 17 j 10:34	0°♂	
	143 Jun 10 j 09:07	0°♂			144 May 20 j 02:23	5°♂39'22	
	143 Jun 28 j 20:19	0°♂			144 Jun 02 j 00:42	0°♂	
desc. node	143 Jul 01 j 22:38	3°♂54'45		desc. node	144 Jun 17 j 19:39	21°♂15'15	
evening max el	143 Jul 07 j 21:24	10°♂21'12	27°18'27	evening max el	144 Jun 19 j 00:04	22°♂25'00	26°40'03
retrograde	143 Jul 21 j 17:02	17°♂38'22		retrograde	144 Jul 02 j 23:34	29°♂39'58	
evening set	143 Jul 28 j 21:08	15°♂12'32		evening set	144 Jul 09 j 17:13	27°♂43'33	
min. Earth dist.	143 Aug 01 j 11:12	12°♂21'21	0.62232 AU	min. Earth dist.	144 Jul 13 j 13:29	25°♂05'50	0.60221 AU
inferior conj	143 Aug 04 j 10:48	9°♂34'49	-4°07'15	inferior conj	144 Jul 16 j 21:02	22°♂24'05	-4°38'12
minimum elong	143 Aug 04 j 15:25	9°♂24'00	4°06'18	minimum elong	144 Jul 16 j 23:52	22°♂18'18	4°37'56
morning rise	143 Aug 11 j 11:03	4°♂32'06		morning rise	144 Jul 24 j 08:28	17°♂43'36	
direct	143 Aug 13 j 22:49	4°♂04'43		direct	144 Jul 26 j 19:53	17°♂20'37	
asc. node	143 Aug 19 j 08:42	6°♂17'07		morning max el	144 Aug 03 j 05:35	20°♂56'55	18°11'25
morning max el	143 Aug 20 j 17:55	7°♂31'15	17°54'21	asc. node	144 Aug 05 j 05:46	23°♂06'30	
	143 Sep 04 j 08:01	0°♂			144 Aug 10 j 02:46	0°♂	
morning set	143 Sep 05 j 20:04	2°♂42'17		morning set	144 Aug 19 j 03:44	16°♂12'06	
					144 Aug 26 j 12:59	0°♂	
superior conj	143 Sep 16 j 19:09	22°♂03'35	1°09'48	superior conj	144 Aug 28 j 17:34	3°♂59'13	1°33'11
minimum elong	143 Sep 17 j 00:06	22°♂24'45	1°09'13	minimum elong	144 Aug 28 j 21:12	4°♂15'32	1°32'53
	143 Sep 21 j 12:16	0°♂		max. Earth dist.	144 Sep 05 j 08:23	17°♂18'24	1.41184 AU
max. Earth dist.	143 Sep 24 j 00:06	4°♂06'09	1.42968 AU	evening rise	144 Sep 10 j 10:21	25°♂44'07	
desc. node	143 Sep 27 j 21:58	10°♂24'40			144 Sep 13 j 02:00	0°♂	
evening rise	143 Oct 01 j 09:53	15°♂55'59		desc. node	144 Sep 13 j 18:58	1°♂07'24	
	143 Oct 10 j 14:45	0°♂			144 Oct 03 j 10:14	0°♂	
evening max el	143 Nov 01 j 15:37	29°♂38'41	21°38'11	evening max el	144 Oct 14 j 07:36	13°♂08'30	22°56'35
	143 Nov 02 j 00:04	0°♂		retrograde	144 Oct 24 j 09:29	19°♂07'32	
retrograde	143 Nov 10 j 14:57	4°♂58'49		evening set	144 Oct 29 j 04:17	17°♂09'50	
evening set	143 Nov 14 j 21:04	3°♂18'47		asc. node	144 Nov 01 j 04:58	13°♂55'44	
asc. node	143 Nov 15 j 07:55	2°♂56'08		inferior conj	144 Nov 03 j 12:42	10°♂48'45	0°47'39
	143 Nov 18 j 00:45	30°♂		minimum elong	144 Nov 03 j 11:36	10°♂52'32	0°47'10
inferior conj	143 Nov 20 j 05:33	27°♂02'52	1°37'36	min. Earth dist.	144 Nov 03 j 06:39	11°♂09'38	0.67680 AU
minimum elong	143 Nov 20 j 03:30	27°♂09'58	1°36'48	morning rise	144 Nov 08 j 18:51	4°♂38'34	
min. Earth dist.	143 Nov 20 j 10:06	26°♂47'09	0.67564 AU	direct	144 Nov 13 j 03:50	2°♂53'40	
morning rise	143 Nov 25 j 09:47	20°♂50'06		morning max el	144 Nov 22 j 02:30	8°♂09'08	21°41'54
direct	143 Nov 30 j 09:31	18°♂42'31			144 Dec 08 j 21:22	0°♂	
morning max el	143 Dec 10 j 12:49	24°♂43'54	23°07'08	desc. node	144 Dec 10 j 18:11	2°♂44'25	
	143 Dec 15 j 06:07	0°♂		morning set	144 Dec 24 j 02:00	23°♂10'35	
desc. node	143 Dec 24 j 21:09	12°♂43'28			144 Dec 28 j 07:35	0°♂	
	144 Jan 05 j 12:08	0°♂		max. Earth dist.	144 Dec 30 j 15:13	3°♂48'50	1.41689 AU
morning set	144 Jan 14 j 05:41	14°♂03'38					
max. Earth dist.	144 Jan 18 j 15:38	21°♂33'23	1.39632 AU	superior conj	145 Jan 07 j 05:28	16°♂44'07	-2°02'11
	144 Jan 23 j 10:25	0°♂		minimum elong	145 Jan 07 j 05:07	16°♂42'37	2°02'10
					145 Jan 14 j 15:29	0°♂	
superior conj	144 Jan 26 j 07:52	5°♂16'28	-1°56'30	evening rise	145 Jan 18 j 00:44	6°♂12'17	
minimum elong	144 Jan 26 j 10:41	5°♂29'26	1°56'21	asc. node	145 Jan 28 j 04:18	24°♂04'32	
evening rise	144 Feb 04 j 20:23	23°♂19'02			145 Feb 01 j 08:44	0°♂	
	144 Feb 08 j 08:44	0°♂		evening max el	145 Feb 03 j 11:19	2°♂19'59	18°11'00
asc. node	144 Feb 11 j 07:17	5°♂23'00		retrograde	145 Feb 10 j 08:06	5°♂48'07	
evening max el	144 Feb 21 j 02:33	19°♂27'22	18°32'22	evening set	145 Feb 12 j 22:53	5°♂18'34	
retrograde	144 Feb 28 j 18:18	23°♂12'22		inferior conj	145 Feb 19 j 18:43	0°♂28'25	3°38'29
evening set	144 Mar 02 j 04:12	22°♂51'16		minimum elong	145 Feb 19 j 20:49	0°♂23'38	3°38'16
inferior conj	144 Mar 09 j 16:00	18°♂21'59	2°59'55		145 Feb 20 j 07:06	30°♂	

min. Earth dist.	145 Feb 23 j 01:52	27° \approx 28'55	0.60389 AU		146 Jan 07 j 06:11	0° \approx	
morning rise	145 Feb 26 j 16:49	24° \approx 43'55		asc. node	146 Jan 15 j 01:19	12° \approx 06'35	
direct	145 Mar 05 j 09:04	22° \approx 36'48		evening max el	146 Jan 17 j 23:20	15° \approx 30'21	18°09'12
desc. node	145 Mar 08 j 17:21	23° \approx 06'49		retrograde	146 Jan 24 j 11:39	18° \approx 55'43	
	145 Mar 19 j 04:48	0° H		evening set	146 Jan 27 j 07:01	18° \approx 16'34	
morning max el	145 Mar 19 j 15:16	0° H 25'27	27°31'40	inferior conj	146 Feb 02 j 14:28	13° \approx 05'53	3°49'50
	145 Apr 09 j 21:31	0° Y		minimum elong	146 Feb 02 j 14:22	13° \approx 06'08	3°49'50
morning set	145 Apr 20 j 10:33	20° Y 09'11		min. Earth dist.	146 Feb 05 j 09:57	10° \approx 11'19	0.62439 AU
	145 Apr 25 j 01:51	0° Z		morning rise	146 Feb 08 j 20:38	7° \approx 08'37	
asc. node	145 Apr 26 j 03:38	2° Z 20'10		direct	146 Feb 15 j 20:24	4° \approx 32'27	
max. Earth dist.	145 Apr 26 j 19:13	3° Z 45'19	1.32350 AU	desc. node	146 Feb 23 j 14:23	7° \approx 13'58	
				morning max el	146 Mar 01 j 20:14	12° \approx 25'13	27°47'28
superior conj	145 Apr 27 j 15:15	5° Z 34'57	0°15'40		146 Mar 15 j 20:12	0° H	
minimum elong	145 Apr 27 j 14:32	5° Z 31'04	0°15'32		146 Apr 02 j 06:09	0° Y	
behind sun begin	145 Apr 27 j 13:35	5° Z 25'48		morning set	146 Apr 04 j 12:55	4° Y 33'19	
behind sun end	145 Apr 27 j 15:30	5° Z 36'20		max. Earth dist.	146 Apr 10 j 04:02	16° Y 19'49	1.32715 AU
evening rise	145 May 04 j 12:43	20° Z 32'44					
	145 May 09 j 03:41	0° II		superior conj	146 Apr 12 j 00:50	20° Y 21'26	-0°10'29
	145 May 28 j 06:37	0° E		minimum elong	146 Apr 12 j 01:19	20° Y 24'07	0°10'23
evening max el	145 May 31 j 19:52	3° E 43'48	25°31'33	behind sun begin	146 Apr 11 j 21:23	20° Y 02'45	
desc. node	145 Jun 04 j 16:38	7° E 00'19		behind sun end	146 Apr 12 j 05:16	20° Y 45'30	
retrograde	145 Jun 14 j 21:00	10° E 54'32		asc. node	146 Apr 13 j 00:39	22° Y 30'41	
evening set	145 Jun 20 j 14:52	9° E 36'46			146 Apr 16 j 11:24	0° Z	
min. Earth dist.	145 Jun 25 j 07:58	6° E 54'12	0.58173 AU	evening rise	146 Apr 19 j 00:28	5° Z 26'46	
inferior conj	145 Jun 28 j 13:15	4° E 37'53	-4°45'06		146 May 02 j 03:07	0° II	
minimum elong	145 Jun 28 j 12:08	4° E 39'51	4°45'04	evening max el	146 May 13 j 10:52	14° II 27'43	24°02'23
morning rise	145 Jul 06 j 12:00	0° E 19'44		desc. node	146 May 22 j 13:39	20° II 33'59	
	145 Jul 08 j 18:20	30° R II		retrograde	146 May 27 j 06:31	21° II 24'20	
direct	145 Jul 09 j 00:45	29° II 59'46		evening set	146 May 31 j 14:31	20° II 42'43	
	145 Jul 09 j 07:08	0° E		min. Earth dist.	146 Jun 06 j 22:01	17° II 39'44	0.56408 AU
morning max el	145 Jul 17 j 10:44	3° E 57'43	18°48'51	inferior conj	146 Jun 09 j 09:16	16° II 08'09	-4°14'58
asc. node	145 Jul 23 j 02:50	10° E 54'36		minimum elong	146 Jun 09 j 03:29	16° II 17'08	4°13'59
morning set	145 Aug 02 j 22:28	0° O 15'17		morning rise	146 Jun 17 j 19:17	12° II 07'49	
	145 Aug 02 j 19:20	0° O		direct	146 Jun 20 j 10:38	11° II 49'36	
				morning max el	146 Jun 30 j 06:25	16° II 22'48	19°47'21
superior conj	145 Aug 11 j 12:34	16° O 56'53	1°44'46	asc. node	146 Jul 09 j 23:53	29° II 27'12	
minimum elong	145 Aug 11 j 14:03	17° O 03'55	1°44'43		146 Jul 10 j 07:30	0° E	
max. Earth dist.	145 Aug 18 j 11:59	29° O 46'49	1.39182 AU	morning set	146 Jul 18 j 00:52	14° E 42'01	
	145 Aug 18 j 14:57	0° H					
evening rise	145 Aug 22 j 11:13	6° H 41'39		superior conj	146 Jul 25 j 22:32	0° O 39'48	1°46'45
desc. node	145 Aug 31 j 15:59	21° H 42'53		minimum elong	146 Jul 25 j 22:07	0° O 37'45	1°46'44
	145 Sep 06 j 02:40	0° E			146 Jul 25 j 14:32	0° O	
evening max el	145 Sep 26 j 20:16	26° E 42'04	24°16'33	max. Earth dist.	146 Jul 31 j 15:46	11° O 43'52	1.37215 AU
	145 Sep 30 j 13:02	0° H		evening rise	146 Aug 04 j 11:50	18° O 47'14	
retrograde	145 Oct 08 j 00:32	3° H 15'23			146 Aug 10 j 23:09	0° H	
evening set	145 Oct 13 j 09:21	1° H 00'07		desc. node	146 Aug 18 j 13:01	12° H 05'45	
	145 Oct 14 j 11:00	30° R E			146 Aug 31 j 06:43	0° E	
min. Earth dist.	145 Oct 18 j 02:43	25° E 33'07	0.67483 AU	evening max el	146 Sep 09 j 07:54	10° E 19'17	25°31'01
inferior conj	145 Oct 18 j 19:07	24° E 37'51	-0°05'57	retrograde	146 Sep 21 j 11:03	17° E 17'33	
minimum elong	145 Oct 18 j 19:16	24° E 37'23	0°05'54	evening set	146 Sep 27 j 10:31	14° E 46'34	
transit middle	145 Oct 18 j 19:16	24° E 37'23	0°05'54	min. Earth dist.	146 Oct 01 j 19:50	9° E 54'57	0.66963 AU
transit begin	145 Oct 18 j 16:43	24° E 45'58		inferior conj	146 Oct 02 j 23:01	8° E 27'23	-1°01'45
transit end	145 Oct 18 j 21:49	24° E 28'48		minimum elong	146 Oct 03 j 00:35	8° E 22'21	1°01'06
asc. node	145 Oct 19 j 02:00	24° E 14'41		asc. node	146 Oct 05 j 23:03	4° E 49'26	
morning rise	145 Oct 24 j 05:11	18° E 32'45		morning rise	146 Oct 08 j 14:50	2° E 30'13	
direct	145 Oct 28 j 00:57	17° E 09'09		direct	146 Oct 11 j 23:24	1° E 25'04	
morning max el	145 Nov 04 j 23:10	21° E 44'08	20°25'53	morning max el	146 Oct 19 j 03:27	5° E 28'38	19°23'19
	145 Nov 11 j 20:00	0° H			146 Nov 05 j 17:51	0° H	
desc. node	145 Nov 27 j 15:13	23° H 03'35		morning set	146 Nov 12 j 01:18	9° H 46'07	
	145 Dec 02 j 03:46	0° Z		desc. node	146 Nov 14 j 12:17	13° H 35'28	
morning set	145 Dec 03 j 00:53	1° Z 21'44			146 Nov 24 j 23:38	0° Z	
max. Earth dist.	145 Dec 12 j 22:05	16° Z 57'22	1.43413 AU	max. Earth dist.	146 Nov 25 j 12:02	0° Z 49'02	1.44578 AU
superior conj	145 Dec 19 j 01:49	27° Z 00'26	-1°52'57	superior conj	146 Nov 28 j 19:53	6° Z 05'57	-1°25'27
minimum elong	145 Dec 18 j 20:37	26° Z 38'51	1°52'40	minimum elong	146 Nov 28 j 11:32	5° Z 32'41	1°24'37
	145 Dec 20 j 20:57	0° Z		evening rise	146 Dec 13 j 04:28	29° Z 29'41	
evening rise	145 Dec 31 j 12:52	18° Z 18'19			146 Dec 13 j 11:45	0° Z	

evening max el	147 Jan 01 j 11:45	28° S 51'18	18°26'11	max. Earth dist.	147 Nov 08 j 06:28	15° N 06'05	1.45044 AU
asc. node	147 Jan 01 j 22:20	29° S 17'32			147 Nov 17 j 17:34	0° S	
	147 Jan 02 j 16:51	0° \approx		evening rise	147 Nov 23 j 20:34	9° S 42'35	
retrograde	147 Jan 08 j 00:39	2° \approx 26'14		greatest brilliancy	147 Dec 02 j 07:15	23° S 08'03	-0.8m
evening set	147 Jan 11 j 00:57	1° \approx 36'26			147 Dec 06 j 17:19	0° S	
	147 Jan 13 j 06:33	30° R S		evening max el	147 Dec 15 j 22:02	12° S 17'06	19°00'49
inferior conj	147 Jan 16 j 23:16	26° S 06'34	3°41'20	asc. node	147 Dec 19 j 19:23	15° S 23'03	
minimum elong	147 Jan 16 j 21:33	26° S 11'31	3°41'09	retrograde	147 Dec 22 j 19:20	16° S 12'00	
min. Earth dist.	147 Jan 19 j 03:33	23° S 35'52	0.64228 AU	evening set	147 Dec 26 j 01:38	15° S 10'23	
morning rise	147 Jan 22 j 17:37	20° S 01'35		inferior conj	147 Dec 31 j 17:29	9° S 23'36	3°18'33
direct	147 Jan 29 j 15:12	17° S 11'00		minimum elong	147 Dec 31 j 14:55	9° S 31'41	3°18'01
desc. node	147 Feb 10 j 11:26	23° S 20'45		min. Earth dist.	148 Jan 02 j 06:32	7° S 27'34	0.65652 AU
morning max el	147 Feb 12 j 04:50	25° S 00'02	27°27'17	morning rise	148 Jan 06 j 03:55	3° S 13'39	
	147 Feb 16 j 18:39	0° \approx		direct	148 Jan 12 j 16:25	0° S 23'13	
	147 Mar 09 j 06:28	0° H		morning max el	148 Jan 25 j 14:35	7° S 58'31	26°36'19
morning set	147 Mar 19 j 07:29	18° H 30'24		desc. node	148 Jan 28 j 08:29	10° S 53'18	
max. Earth dist.	147 Mar 24 j 05:32	28° H 27'50	1.33495 AU		148 Feb 11 j 19:15	0° \approx	
	147 Mar 24 j 23:13	0° Y			148 Feb 29 j 15:40	0° H	
				morning set	148 Mar 01 j 14:42	1° H 48'26	
superior conj	147 Mar 27 j 06:41	4° Y 52'26	-0°37'25	max. Earth dist.	148 Mar 05 j 20:18	10° H 01'21	1.34721 AU
minimum elong	147 Mar 27 j 08:30	5° Y 02'03	0°37'03				
asc. node	147 Mar 30 j 21:41	12° Y 37'18		superior conj	148 Mar 10 j 06:33	18° H 59'55	-1°03'59
evening rise	147 Apr 03 j 11:50	20° Y 15'15		minimum elong	148 Mar 10 j 09:35	19° H 15'34	1°03'27
	147 Apr 08 j 06:56	0° B			148 Mar 15 j 13:04	0° Y	
evening max el	147 Apr 25 j 02:55	25° B 02'42	22°26'57	asc. node	148 Mar 16 j 18:43	2° Y 34'53	
	147 May 01 j 23:09	0° II		evening rise	148 Mar 17 j 20:51	4° Y 50'35	
retrograde	147 May 08 j 03:09	1° II 27'34			148 Apr 01 j 00:03	0° B	
desc. node	147 May 09 j 10:39	1° II 23'43		evening max el	148 Apr 06 j 02:37	5° B 56'26	20°58'55
evening set	147 May 11 j 03:02	1° II 07'51		retrograde	148 Apr 17 j 16:33	11° B 33'07	
	147 May 14 j 14:48	30° R B		evening set	148 Apr 19 j 22:14	11° B 21'20	
min. Earth dist.	147 May 19 j 10:28	27° B 32'40	0.55271 AU	desc. node	148 Apr 25 j 07:41	9° B 29'33	
inferior conj	147 May 20 j 11:30	26° B 57'11	-2°59'10	inferior conj	148 Apr 29 j 05:38	7° B 22'57	-1°07'20
minimum elong	147 May 20 j 04:21	27° B 07'20	2°57'05	minimum elong	148 Apr 29 j 02:27	7° B 27'28	1°06'11
morning rise	147 May 29 j 07:36	23° B 03'35		min. Earth dist.	148 Apr 29 j 23:15	6° B 57'59	0.55009 AU
direct	147 Jun 01 j 03:56	22° B 45'04		morning rise	148 May 08 j 06:27	3° B 17'52	
morning max el	147 Jun 12 j 14:59	28° B 05'32	21°06'02	direct	148 May 11 j 14:02	2° B 54'08	
	147 Jun 14 j 12:44	0° II		morning max el	148 May 24 j 13:12	9° B 06'51	22°40'44
asc. node	147 Jun 26 j 20:57	18° II 33'42			148 Jun 08 j 12:39	0° II	
morning set	147 Jul 02 j 08:24	29° II 25'25		asc. node	148 Jun 12 j 18:01	8° II 05'09	
	147 Jul 02 j 15:06	0° S		morning set	148 Jun 15 j 19:00	14° II 19'10	
superior conj	147 Jul 09 j 19:05	14° S 55'19	1°41'06	superior conj	148 Jun 22 j 22:53	29° II 33'12	1°29'29
minimum elong	147 Jul 09 j 17:23	14° S 46'30	1°40'59	minimum elong	148 Jun 22 j 20:31	29° II 20'37	1°29'14
max. Earth dist.	147 Jul 14 j 01:38	23° S 34'48	1.35490 AU		148 Jun 23 j 03:56	0° S	
	147 Jul 17 j 08:44	0° Q		max. Earth dist.	148 Jun 25 j 20:42	5° S 40'10	1.34117 AU
evening rise	147 Jul 18 j 07:47	1° Q 49'23		evening rise	148 Jun 30 j 18:13	15° S 34'51	
	147 Aug 03 j 23:12	0° H			148 Jul 08 j 12:02	0° Q	
desc. node	147 Aug 05 j 10:02	2° H 09'44		desc. node	148 Jul 22 j 07:03	21° Q 46'38	
evening max el	147 Aug 22 j 19:50	23° H 55'41	26°32'13		148 Jul 28 j 13:54	0° H	
	147 Aug 31 j 00:25	0° S		evening max el	148 Aug 04 j 07:39	7° H 21'50	27°12'34
retrograde	147 Sep 04 j 16:30	1° S 08'31		retrograde	148 Aug 17 j 16:32	14° H 40'56	
	147 Sep 08 j 23:35	30° R H		evening set	148 Aug 24 j 16:32	11° H 55'24	
evening set	147 Sep 11 j 05:44	28° H 26'18		min. Earth dist.	148 Aug 28 j 11:30	8° H 17'46	0.64870 AU
min. Earth dist.	147 Sep 15 j 07:30	24° H 11'50	0.66100 AU	inferior conj	148 Aug 30 j 15:23	5° H 54'01	-2°52'46
inferior conj	147 Sep 16 j 22:31	22° H 14'09	-1°58'05	minimum elong	148 Aug 30 j 19:38	5° H 42'14	2°51'20
minimum elong	147 Sep 17 j 01:31	22° H 05'04	1°56'54	morning rise	148 Sep 05 j 23:30	0° H 22'28	
morning rise	147 Sep 22 j 21:45	16° H 28'12			148 Sep 06 j 22:27	30° R Q	
asc. node	147 Sep 22 j 20:07	16° H 30'29		direct	148 Sep 08 j 16:29	29° Q 43'40	
direct	147 Sep 25 j 21:21	15° H 37'58		asc. node	148 Sep 08 j 17:12	29° Q 43'40	
morning max el	147 Oct 02 j 14:06	19° H 19'57	18°36'20		148 Sep 10 j 10:39	0° H	
	147 Oct 10 j 17:41	0° S		morning max el	148 Sep 15 j 04:47	3° H 13'12	18°06'05
morning set	147 Oct 23 j 00:35	19° S 22'47			148 Oct 02 j 22:48	0° S	
	147 Oct 29 j 16:39	0° N		morning set	148 Oct 03 j 04:38	0° S 24'21	
desc. node	147 Nov 01 j 09:19	4° N 15'52					
				superior conj	148 Oct 17 j 03:40	23° S 14'59	0°07'22
superior conj	147 Nov 07 j 21:24	14° N 30'28	-0°41'54	minimum elong	148 Oct 17 j 04:34	23° S 18'34	0°07'14
minimum elong	147 Nov 07 j 15:59	14° N 09'09	0°41'11	behind sun begin	148 Oct 16 j 18:53	22° S 39'54	

behind sun end	148 Oct 17 j 14:14	23° Ω 57'11		superior conj	149 Sep 27 j 08:23	3° Ω 07'10	0°50'25
desc. node	148 Oct 18 j 06:22	25° Ω 01'29		minimum elong	149 Sep 27 j 13:00	3° Ω 26'20	0°49'49
max. Earth dist.	148 Oct 21 j 01:25	29° Ω 27'21	1.44766 AU	max. Earth dist.	149 Oct 03 j 17:26	13° Ω 32'30	1.43792 AU
	148 Oct 21 j 09:41	0° \mathbb{M}		desc. node	149 Oct 05 j 03:24	15° Ω 48'29	
evening rise	148 Nov 02 j 14:57	19° \mathbb{M} 04'15		evening rise	149 Oct 12 j 22:05	28° Ω 00'54	
	148 Nov 09 j 17:12	0° \mathcal{A}			149 Oct 14 j 04:59	0° \mathbb{M}	
greatest brilliancy	148 Nov 15 j 23:21	9° \mathcal{A} 28'50	-0.7m		149 Nov 03 j 14:46	0° \mathcal{A}	
evening max el	148 Nov 28 j 04:09	25° \mathcal{A} 45'09	19°51'35	evening max el	149 Nov 11 j 04:48	9° \mathcal{A} 13'36	20°56'12
	148 Dec 04 j 10:26	0° \mathcal{B}		retrograde	149 Nov 19 j 14:20	14° \mathcal{A} 12'17	
retrograde	148 Dec 05 j 16:43	0° \mathcal{B} 08'48		asc. node	149 Nov 22 j 13:29	13° \mathcal{A} 22'35	
asc. node	148 Dec 05 j 16:26	0° \mathcal{B} 08'48		evening set	149 Nov 23 j 13:52	12° \mathcal{A} 42'04	
	148 Dec 06 j 22:22	30° $\mathcal{R}\mathcal{A}$		inferior conj	149 Nov 28 j 23:03	6° \mathcal{A} 30'43	2°04'07
evening set	148 Dec 09 j 06:38	28° \mathcal{A} 53'48		minimum elong	149 Nov 28 j 20:36	6° \mathcal{A} 39'06	2°03'15
inferior conj	148 Dec 14 j 18:15	22° \mathcal{A} 53'03	2°45'17	min. Earth dist.	149 Nov 29 j 10:07	5° \mathcal{A} 52'46	0.67347 AU
minimum elong	148 Dec 14 j 15:28	23° \mathcal{A} 02'16	2°44'29	morning rise	149 Dec 04 j 03:09	0° \mathcal{A} 17'07	
min. Earth dist.	148 Dec 15 j 17:29	21° \mathcal{A} 35'55	0.66688 AU		149 Dec 04 j 11:05	30° $\mathcal{R}\mathbb{M}$	
morning rise	148 Dec 20 j 00:06	16° \mathcal{A} 40'13		direct	149 Dec 09 j 11:37	27° \mathbb{M} 56'46	
direct	148 Dec 25 j 23:27	14° \mathcal{A} 01'10			149 Dec 15 j 03:44	0° \mathcal{A}	
morning max el	149 Jan 06 j 23:39	21° \mathcal{A} 09'38	25°23'03	morning max el	149 Dec 20 j 08:06	4° \mathcal{A} 25'15	23°57'37
desc. node	149 Jan 14 j 05:33	29° \mathcal{A} 27'03		desc. node	150 Jan 01 j 02:37	18° \mathcal{A} 43'53	
	149 Jan 14 j 15:59	0° \mathcal{B}			150 Jan 08 j 23:59	0° \mathcal{B}	
	149 Feb 04 j 00:24	0° \approx		morning set	150 Jan 24 j 22:53	25° \mathcal{B} 31'41	
morning set	149 Feb 12 j 05:50	14° \approx 14'20			150 Jan 27 j 12:37	0° \approx	
max. Earth dist.	149 Feb 15 j 23:22	21° \approx 07'18	1.36391 AU	max. Earth dist.	150 Jan 28 j 18:48	2° \approx 13'30	1.38402 AU
	149 Feb 20 j 14:04	0° \mathcal{H}					
superior conj	149 Feb 21 j 21:42	2° \mathcal{H} 36'27	-1°28'25	superior conj	150 Feb 05 j 00:34	15° \approx 32'50	-1°48'21
minimum elong	149 Feb 22 j 01:32	2° \mathcal{H} 55'28	1°27'54	minimum elong	150 Feb 05 j 04:12	15° \approx 50'08	1°48'03
evening rise	149 Mar 02 j 01:29	19° \mathcal{H} 06'38			150 Feb 12 j 11:14	0° \mathcal{H}	
asc. node	149 Mar 03 j 15:45	22° \mathcal{H} 18'56		evening rise	150 Feb 13 j 23:13	2° \mathcal{H} 56'41	
	149 Mar 07 j 14:57	0° \mathcal{Y}		asc. node	150 Feb 18 j 12:48	11° \mathcal{H} 44'16	
evening max el	149 Mar 19 j 13:31	17° \mathcal{Y} 26'17	19°46'43	evening max el	150 Mar 02 j 11:08	29° \mathcal{H} 34'32	18°53'48
retrograde	149 Mar 29 j 10:19	22° \mathcal{Y} 10'31			150 Mar 02 j 21:59	0° \mathcal{Y}	
evening set	149 Mar 31 j 12:48	21° \mathcal{Y} 58'33		retrograde	150 Mar 10 j 19:05	3° \mathcal{Y} 36'13	
inferior conj	149 Apr 09 j 06:12	17° \mathcal{Y} 56'29	0°49'48	evening set	150 Mar 13 j 01:55	3° \mathcal{Y} 19'17	
minimum elong	149 Apr 09 j 08:19	17° \mathcal{Y} 53'11	0°49'05		150 Mar 19 j 15:32	30° $\mathcal{R}\mathcal{H}$	
min. Earth dist.	149 Apr 11 j 13:31	16° \mathcal{Y} 30'45	0.55700 AU	inferior conj	150 Mar 21 j 00:22	29° \mathcal{H} 01'57	2°22'32
desc. node	149 Apr 12 j 04:43	16° \mathcal{Y} 07'55		minimum elong	150 Mar 21 j 04:41	28° \mathcal{H} 54'11	2°21'21
morning rise	149 Apr 18 j 01:26	13° \mathcal{Y} 22'28		min. Earth dist.	150 Mar 24 j 05:52	26° \mathcal{H} 43'48	0.57195 AU
direct	149 Apr 22 j 06:29	12° \mathcal{Y} 43'03		morning rise	150 Mar 29 j 04:24	23° \mathcal{H} 54'59	
morning max el	149 May 06 j 05:00	19° \mathcal{Y} 40'59	24°21'54	desc. node	150 Mar 30 j 01:45	23° \mathcal{H} 34'17	
	149 May 14 j 21:43	0° \mathcal{B}		direct	150 Apr 03 j 12:40	22° \mathcal{H} 46'13	
asc. node	149 May 30 j 15:04	27° \mathcal{B} 54'27			150 Apr 17 j 14:32	0° \mathcal{Y}	
morning set	149 May 31 j 06:52	29° \mathcal{B} 17'22		morning max el	150 Apr 17 j 20:07	0° \mathcal{Y} 13'26	25°55'17
	149 May 31 j 14:57	0° \mathbb{I}			150 May 08 j 14:41	0° \mathcal{B}	
				morning set	150 May 15 j 18:26	14° \mathcal{B} 14'35	
superior conj	149 Jun 07 j 07:18	14° \mathbb{I} 24'53	1°13'09	asc. node	150 May 17 j 12:06	17° \mathcal{B} 56'00	
minimum elong	149 Jun 07 j 04:51	14° \mathbb{I} 11'33	1°12'47				
max. Earth dist.	149 Jun 09 j 00:29	18° \mathbb{I} 07'01	1.33135 AU	superior conj	150 May 22 j 18:19	29° \mathcal{B} 23'28	0°53'03
evening rise	149 Jun 14 j 15:03	29° \mathbb{I} 51'35		minimum elong	150 May 22 j 16:15	29° \mathcal{B} 12'06	0°52'41
	149 Jun 14 j 16:43	0° \mathcal{E}			150 May 23 j 00:59	0° \mathbb{I}	
	149 Jul 01 j 13:18	0° \mathcal{Q}		max. Earth dist.	150 May 23 j 10:30	0° \mathbb{I} 52'07	1.32540 AU
desc. node	149 Jul 09 j 04:04	10° \mathcal{Q} 44'37		evening rise	150 May 29 j 19:07	14° \mathbb{I} 29'42	
evening max el	149 Jul 17 j 17:49	20° \mathcal{Q} 25'34	27°25'27		150 Jun 06 j 17:30	0° \mathcal{E}	
retrograde	149 Jul 31 j 10:44	27° \mathcal{Q} 45'07		desc. node	150 Jun 26 j 01:04	28° \mathcal{E} 47'28	
evening set	149 Aug 07 j 15:39	25° \mathcal{Q} 08'01			150 Jun 27 j 03:15	0° \mathcal{Q}	
min. Earth dist.	149 Aug 11 j 06:00	22° \mathcal{Q} 02'36	0.63281 AU	evening max el	150 Jun 30 j 00:07	2° \mathcal{Q} 55'17	27°06'16
inferior conj	149 Aug 13 j 22:57	19° \mathcal{Q} 20'34	-3°42'38	retrograde	150 Jul 13 j 22:01	10° \mathcal{Q} 12'00	
minimum elong	149 Aug 14 j 03:47	19° \mathcal{Q} 08'28	3°41'23	evening set	150 Jul 20 j 22:57	7° \mathcal{Q} 57'16	
morning rise	149 Aug 20 j 17:06	14° \mathcal{Q} 06'35		min. Earth dist.	150 Jul 24 j 14:19	5° \mathcal{Q} 13'38	0.61391 AU
direct	149 Aug 23 j 05:57	13° \mathcal{Q} 35'57		inferior conj	150 Jul 27 j 18:03	2° \mathcal{Q} 26'44	-4°22'39
asc. node	149 Aug 26 j 14:17	14° \mathcal{Q} 30'16		minimum elong	150 Jul 27 j 22:10	2° \mathcal{Q} 17'36	4°21'59
morning max el	149 Aug 29 j 20:37	17° \mathcal{Q} 01'24	17°53'19		150 Jul 30 j 15:59	30° $\mathcal{R}\mathcal{E}$	
	149 Sep 08 j 02:28	0° \mathbb{P}		morning rise	150 Aug 03 j 23:01	27° \mathcal{E} 33'05	
morning set	149 Sep 15 j 09:22	12° \mathbb{P} 36'31		direct	150 Aug 06 j 10:13	27° \mathcal{E} 07'55	
	149 Sep 25 j 11:36	0° \mathcal{L}			150 Aug 12 j 18:26	0° \mathcal{Q}	
				asc. node	150 Aug 13 j 11:20	0° \mathcal{Q} 39'24	
				morning max el	150 Aug 13 j 10:40	0° \mathcal{Q} 37'46	17°59'07

morning set	150 Aug 29 j 08:49	25°Ω42'42		superior conj	151 Aug 22 j 00:21	26°Ω43'49	1°39'25
	150 Aug 31 j 16:54	0°൬		minimum elong	151 Aug 22 j 03:05	26°Ω56'24	1°39'14
					151 Aug 23 j 19:12	0°൬	
superior conj	150 Sep 08 j 16:29	14°൬20'13	1°21'15	max. Earth dist.	151 Aug 29 j 11:08	10°൬02'15	1.40351 AU
minimum elong	150 Sep 08 j 21:05	14°൬40'18	1°20'48	evening rise	151 Sep 02 j 22:21	17°൬35'54	
max. Earth dist.	150 Sep 16 j 04:48	27°൬07'38	1.42258 AU	desc. node	151 Sep 08 j 21:26	27°൬14'00	
	150 Sep 17 j 22:43	0°♎			151 Sep 10 j 15:53	0°♎	
evening rise	150 Sep 22 j 11:52	7°♎19'18			151 Oct 01 j 23:58	0°♎	
desc. node	150 Sep 22 j 00:25	6°♎33'52		evening max el	151 Oct 07 j 14:16	6°♎15'01	23°30'49
	150 Oct 07 j 10:53	0°♎		retrograde	151 Oct 18 j 03:22	12°♎28'43	
evening max el	150 Oct 24 j 23:49	22°♎43'04	22°10'58	evening set	151 Oct 23 j 04:04	10°♎23'29	
retrograde	150 Nov 03 j 10:20	28°♎19'47		asc. node	151 Oct 27 j 07:35	5°♎41'29	
evening set	150 Nov 07 j 21:33	26°♎32'34		min. Earth dist.	151 Oct 28 j 02:30	4°♎37'20	0.67643 AU
asc. node	150 Nov 09 j 10:32	25°♎05'20		inferior conj	151 Oct 28 j 12:56	4°♎01'41	0°25'16
inferior conj	150 Nov 13 j 05:52	20°♎14'09	1°16'56	minimum elong	151 Oct 28 j 12:20	4°♎03'44	0°25'01
minimum elong	150 Nov 13 j 04:11	20°♎20'00	1°16'15		151 Oct 31 j 16:06	30°♎♎	
min. Earth dist.	150 Nov 13 j 05:55	20°♎13'59	0.67659 AU	morning rise	151 Nov 02 j 20:31	27°♎53'28	
morning rise	150 Nov 18 j 10:39	14°♎02'03		direct	151 Nov 06 j 23:46	26°♎17'47	
direct	150 Nov 23 j 04:04	12°♎03'52			151 Nov 14 j 04:13	0°♎	
morning max el	150 Dec 02 j 18:42	17°♎45'21	22°29'56	morning max el	151 Nov 15 j 11:07	1°♎14'24	21°08'06
	150 Dec 12 j 21:21	0°♎		desc. node	151 Dec 05 j 20:41	28°♎41'00	
desc. node	150 Dec 18 j 23:39	8°♎31'24			151 Dec 06 j 17:45	0°♎	
	151 Jan 02 j 03:09	0°♎		morning set	151 Dec 15 j 21:14	14°♎02'49	
morning set	151 Jan 05 j 11:56	5°♎25'43		max. Earth dist.	151 Dec 23 j 18:05	26°♎38'30	1.42485 AU
max. Earth dist.	151 Jan 10 j 14:58	13°♎57'28	1.40534 AU		151 Dec 25 j 19:06	0°♎	
superior conj	151 Jan 18 j 10:25	27°♎37'00	-2°00'26	superior conj	151 Dec 30 j 21:53	8°♎35'52	-2°00'21
minimum elong	151 Jan 18 j 12:11	27°♎44'54	2°00'23	minimum elong	151 Dec 30 j 19:34	8°♎25'59	2°00'17
	151 Jan 19 j 18:01	0°♎		evening rise	152 Jan 11 j 08:57	28°♎47'24	
evening rise	151 Jan 28 j 10:57	16°♎12'53			152 Jan 12 j 01:05	0°♎	
	151 Feb 04 j 23:32	0°♎		asc. node	152 Jan 23 j 06:52	19°♎10'11	
asc. node	151 Feb 05 j 09:50	0°♎44'01		evening max el	152 Jan 28 j 03:20	25°♎15'00	18°07'51
evening max el	151 Feb 13 j 16:47	12°♎13'41	18°20'54	retrograde	152 Feb 03 j 19:12	28°♎40'18	
retrograde	151 Feb 20 j 22:49	15°♎49'11		evening set	152 Feb 06 j 12:01	28°♎06'39	
evening set	151 Feb 23 j 11:02	15°♎24'31		inferior conj	152 Feb 13 j 02:06	23°♎07'17	3°46'08
inferior conj	151 Mar 02 j 15:36	10°♎46'33	3°20'07	minimum elong	152 Feb 13 j 03:14	23°♎04'33	3°46'04
minimum elong	151 Mar 02 j 18:56	10°♎39'33	3°19'33	min. Earth dist.	152 Feb 16 j 04:51	20°♎07'29	0.61285 AU
min. Earth dist.	151 Mar 06 j 01:56	7°♎55'16	0.59177 AU	morning rise	152 Feb 19 j 16:58	17°♎16'42	
morning rise	151 Mar 10 j 00:26	5°♎13'24		direct	152 Feb 26 j 13:40	14°♎56'02	
direct	151 Mar 16 j 07:53	3°♎27'18		desc. node	152 Mar 02 j 19:50	16°♎10'23	
desc. node	151 Mar 16 j 22:47	3°♎28'19		morning max el	152 Mar 11 j 17:26	22°♎46'20	27°43'01
morning max el	151 Mar 30 j 15:32	11°♎09'46	27°05'53		152 Mar 18 j 03:39	0°♎	
	151 Apr 14 j 06:58	0°♎			152 Apr 06 j 09:46	0°♎	
morning set	151 Apr 30 j 03:57	29°♎03'56		morning set	152 Apr 13 j 09:34	13°♎39'20	
	151 Apr 30 j 14:40	0°♎		max. Earth dist.	152 Apr 19 j 10:44	26°♎29'10	1.32464 AU
asc. node	151 May 04 j 09:07	8°♎04'08		asc. node	152 Apr 20 j 06:09	28°♎14'51	
superior conj	151 May 07 j 06:04	14°♎21'32	0°30'00	superior conj	152 Apr 20 j 16:55	29°♎13'36	0°04'46
minimum elong	151 May 07 j 04:46	14°♎14'24	0°29'44	minimum elong	152 Apr 20 j 16:42	29°♎12'24	0°04'42
max. Earth dist.	151 May 06 j 23:11	13°♎43'42	1.32317 AU	behind sun begin	152 Apr 20 j 11:49	28°♎45'47	
evening rise	151 May 14 j 03:46	29°♎19'24		behind sun end	152 Apr 20 j 21:34	29°♎39'02	
	151 May 14 j 11:30	0°♎			152 Apr 21 j 01:25	0°♎	
	151 May 31 j 02:18	0°♎		evening rise	152 Apr 27 j 14:56	14°♎13'39	
evening max el	151 Jun 12 j 00:05	14°♎40'08	26°14'18		152 May 05 j 13:28	0°♎	
desc. node	151 Jun 12 j 22:04	15°♎31'11		evening max el	152 May 23 j 17:18	25°♎40'54	24°55'13
retrograde	151 Jun 26 j 00:38	21°♎53'02			152 May 29 j 02:56	0°♎	
evening set	151 Jul 02 j 09:45	20°♎12'49		desc. node	152 May 29 j 19:05	0°♎24'32	
min. Earth dist.	151 Jul 06 j 13:00	17°♎35'05	0.59339 AU	retrograde	152 Jun 06 j 16:51	2°♎46'52	
inferior conj	151 Jul 09 j 21:00	15°♎01'55	-4°44'51	evening set	152 Jun 11 j 21:21	1°♎45'25	
minimum elong	151 Jul 09 j 22:23	14°♎59'14	4°44'47		152 Jun 15 j 11:09	30°♎♎	
morning rise	151 Jul 17 j 13:10	10°♎30'44		min. Earth dist.	152 Jun 17 j 04:45	28°♎56'00	0.57372 AU
direct	151 Jul 20 j 01:04	10°♎09'04		inferior conj	152 Jun 20 j 04:36	26°♎56'48	-4°37'34
morning max el	151 Jul 27 j 19:48	13°♎53'09	18°24'46	minimum elong	152 Jun 20 j 01:24	27°♎02'09	4°37'16
asc. node	151 Jul 31 j 08:22	17°♎54'59		morning rise	152 Jun 28 j 08:11	22°♎47'17	
	151 Aug 07 j 20:45	0°♎		direct	152 Jun 30 j 22:08	22°♎28'04	
morning set	151 Aug 12 j 21:41	9°♎28'02		morning max el	152 Jul 09 j 21:08	26°♎38'50	19°11'15
					152 Jul 12 j 23:09	0°♎	

asc. node	152 Jul 17 j 05:24	6°☿02'41			153 Jul 06 j 21:01	0°☿	
morning set	152 Jul 26 j 20:00	23°☿41'42		morning set	153 Jul 11 j 00:52	8°☿16'13	
	152 Jul 30 j 00:01	0°♌					
superior conj	152 Aug 04 j 02:17	10°♌02'00	1°46'40	superior conj	153 Jul 18 j 17:17	24°☿00'31	1°45'11
minimum elong	152 Aug 04 j 02:54	10°♌05'00	1°46'39	minimum elong	153 Jul 18 j 16:14	23°☿55'16	1°45'08
max. Earth dist.	152 Aug 10 j 14:23	22°♌15'39	1.38324 AU	max. Earth dist.	153 Jul 21 j 17:21	0°♌	
evening rise	152 Aug 14 j 09:37	29°♌02'19		evening rise	153 Jul 23 j 19:53	4°♌05'53	1.36432 AU
	152 Aug 14 j 22:52	0°♍			153 Jul 27 j 19:04	11°♌33'32	
desc. node	152 Aug 25 j 18:27	17°♍44'29		desc. node	153 Aug 07 j 12:11	0°♍	
	152 Sep 03 j 01:04	0°♎			153 Aug 12 j 15:29	8°♍00'15	
evening max el	152 Sep 19 j 02:11	19°♎49'51	24°49'21	evening max el	153 Aug 29 j 06:08	0°♎	
retrograde	152 Sep 30 j 16:31	26°♎34'52		retrograde	153 Sep 01 j 13:40	3°♎26'54	25°59'08
evening set	152 Oct 06 j 07:43	24°♎12'16		evening set	153 Sep 14 j 01:08	10°♎33'30	
min. Earth dist.	152 Oct 10 j 21:29	19°♎00'23	0.67303 AU	min. Earth dist.	153 Sep 20 j 06:40	7°♎56'43	
inferior conj	152 Oct 11 j 18:29	17°♎50'53	-0°29'28	inferior conj	153 Sep 24 j 12:35	3°♎20'52	0.66633 AU
minimum elong	152 Oct 11 j 19:12	17°♎48'28	0°29'09	minimum elong	153 Sep 25 j 20:46	1°♎39'49	-1°25'42
asc. node	152 Oct 13 j 04:38	15°♎59'40			153 Sep 25 j 22:57	1°♎32'57	1°24'48
morning rise	152 Oct 17 j 06:48	11°♎49'06		asc. node	153 Sep 27 j 05:03	30°♎	
direct	152 Oct 20 j 21:32	10°♎33'52		morning rise	153 Sep 30 j 01:40	26°♎57'49	
morning max el	152 Oct 28 j 11:11	14°♎54'00	19°57'33	direct	153 Oct 01 j 15:33	25°♎47'10	
	152 Nov 09 j 02:02	0°♏		morning max el	153 Oct 04 j 19:55	24°♎49'00	
desc. node	152 Nov 21 j 17:43	19°♏05'59			153 Oct 11 j 18:31	28°♎42'32	19°01'24
morning set	152 Nov 23 j 17:37	22°♏10'43			153 Oct 12 j 23:34	0°♏	
	152 Nov 28 j 18:22	0°♐		morning set	153 Nov 02 j 10:22	0°♏	
max. Earth dist.	152 Dec 05 j 04:42	10°♐09'05	1.43989 AU	desc. node	153 Nov 03 j 02:01	1°♏01'23	
				max. Earth dist.	153 Nov 08 j 14:47	9°♏42'04	
superior conj	152 Dec 10 j 06:40	18°♐20'11	-1°43'35		153 Nov 17 j 20:34	24°♏12'31	1.44864 AU
minimum elong	152 Dec 09 j 23:36	17°♐51'25	1°43'02	superior conj	153 Nov 19 j 15:45	27°♏02'45	-1°08'30
	152 Dec 17 j 08:06	0°♑		minimum elong	153 Nov 19 j 07:51	26°♏31'35	1°07'35
evening rise	152 Dec 23 j 12:54	10°♑31'14			153 Nov 21 j 12:36	0°♑	
	153 Jan 04 j 04:30	0°♒		evening rise	153 Dec 04 j 18:47	21°♑18'01	
asc. node	153 Jan 09 j 03:55	6°♒51'54			153 Dec 10 j 02:39	0°♒	
evening max el	153 Jan 10 j 15:47	8°♒30'00	18°14'06	evening max el	153 Dec 25 j 03:33	21°♒53'19	18°38'46
retrograde	153 Jan 17 j 03:26	11°♒58'24		asc. node	153 Dec 27 j 00:58	23°♒36'48	
evening set	153 Jan 20 j 00:44	11°♒14'54		retrograde	153 Dec 31 j 19:18	25°♒35'49	
inferior conj	153 Jan 26 j 03:55	5°♒55'34	3°48'15	evening set	154 Jan 03 j 21:52	24°♒41'22	
minimum elong	153 Jan 26 j 03:03	5°♒57'58	3°48'13	inferior conj	154 Jan 09 j 17:10	19°♒04'05	3°33'08
min. Earth dist.	153 Jan 28 j 17:01	3°♒09'23	0.63240 AU	minimum elong	154 Jan 09 j 15:00	19°♒10'35	3°32'49
morning rise	153 Feb 01 j 04:32	29°♒54'17		min. Earth dist.	154 Jan 11 j 14:56	16°♒46'55	0.64884 AU
	153 Feb 01 j 01:38	30°♒		morning rise	154 Jan 15 j 07:41	12°♒56'26	
direct	153 Feb 08 j 04:10	27°♒10'21		direct	154 Jan 22 j 02:03	10°♒04'00	
	153 Feb 16 j 00:34	0°♓		morning max el	154 Feb 04 j 10:04	17°♒49'32	27°08'46
desc. node	153 Feb 17 j 16:52	1°♓12'35		desc. node	154 Feb 04 j 13:56	17°♒59'16	
morning max el	153 Feb 22 j 00:34	5°♓02'53	27°43'04		154 Feb 14 j 15:57	0°♓	
	153 Mar 12 j 20:56	0°♈			154 Mar 05 j 18:06	0°♈	
morning set	153 Mar 28 j 09:00	27°♈52'57		morning set	154 Mar 11 j 23:15	11°♈35'00	
	153 Mar 29 j 10:12	0°♉		max. Earth dist.	154 Mar 16 j 14:06	20°♈46'29	1.33958 AU
max. Earth dist.	153 Apr 02 j 17:03	8°♉54'02	1.32996 AU				
superior conj	153 Apr 05 j 01:08	13°♉53'45	-0°21'53	superior conj	154 Mar 20 j 04:46	28°♈15'30	-0°48'51
minimum elong	153 Apr 05 j 02:11	13°♉59'24	0°21'40	minimum elong	154 Mar 20 j 07:07	28°♈27'53	0°48'23
asc. node	153 Apr 07 j 03:13	18°♉23'59			154 Mar 21 j 00:37	0°♉	
evening rise	153 Apr 12 j 02:44	29°♉05'38		asc. node	154 Mar 25 j 00:16	8°♉27'07	
	153 Apr 12 j 13:04	0°♊		evening rise	154 Mar 27 j 13:21	13°♉48'56	
	153 Apr 29 j 18:43	0°♋			154 Apr 04 j 20:14	0°♊	
evening max el	153 May 05 j 07:38	6°♋16'15	23°21'33	evening max el	154 Apr 17 j 02:17	16°♊56'13	21°47'59
desc. node	153 May 16 j 16:05	12°♋51'29		retrograde	154 Apr 29 j 13:54	23°♊02'18	
retrograde	153 May 18 j 21:08	13°♋02'36		evening set	154 May 02 j 03:36	22°♊47'30	
evening set	153 May 22 j 14:24	12°♋32'10		desc. node	154 May 03 j 13:07	22°♊27'43	
min. Earth dist.	153 May 29 j 17:43	9°♋16'54	0.55824 AU	inferior conj	154 May 11 j 13:35	18°♊44'05	-2°14'39
inferior conj	153 May 31 j 16:20	8°♋07'59	-3°48'21	minimum elong	154 May 11 j 07:35	18°♊52'30	2°12'40
minimum elong	153 May 31 j 09:20	8°♋18'23	3°46'47	min. Earth dist.	154 May 11 j 06:34	18°♊53'55	0.55035 AU
morning rise	153 Jun 09 j 07:00	4°♋12'43		morning rise	154 May 20 j 12:36	14°♊47'40	
direct	153 Jun 11 j 23:52	3°♋54'53		direct	154 May 23 j 12:24	14°♊27'53	
morning max el	153 Jun 22 j 12:18	8°♋46'46	20°18'40	morning max el	154 Jun 04 j 16:17	20°♋11'27	21°44'50
asc. node	153 Jul 04 j 02:27	24°♋50'42			154 Jun 12 j 18:38	0°♋	
				asc. node	154 Jun 20 j 23:31	14°♋08'33	

morning set	154 Jun 25 j 09:54	23° Π 04'21		morning max el	155 May 17 j 11:03	0° \mathcal{B} 58'41	23°23'35
	154 Jun 28 j 17:06	0° \mathcal{E}			155 Jun 05 j 23:07	0° Π	
superior conj	154 Jul 02 j 17:16	8° \mathcal{E} 26'34	1°36'50	asc. node	155 Jun 07 j 20:36	3° Π 48'32	
minimum elong	154 Jul 02 j 15:13	8° \mathcal{E} 15'47	1°36'39	morning set	155 Jun 09 j 21:16	8° Π 00'41	
max. Earth dist.	154 Jul 06 j 09:11	15° \mathcal{E} 59'32	1.34854 AU	superior conj	155 Jun 16 j 23:19	23° Π 11'09	1°23'04
evening rise	154 Jul 10 j 21:45	24° \mathcal{E} 55'47		minimum elong	155 Jun 16 j 20:51	22° Π 57'53	1°22'45
	154 Jul 13 j 14:13	0° \mathcal{Q}		max. Earth dist.	155 Jun 19 j 08:19	28° Π 14'34	1.33659 AU
desc. node	154 Jul 30 j 12:30	27° \mathcal{Q} 53'38			155 Jun 20 j 04:21	0° \mathcal{E}	
	154 Jul 31 j 23:54	0° \mathcal{M}		evening rise	155 Jun 24 j 13:06	8° \mathcal{E} 56'10	
evening max el	154 Aug 15 j 01:39	17° \mathcal{M} 00'01	26°52'27		155 Jul 06 j 00:38	0° \mathcal{Q}	
retrograde	154 Aug 28 j 04:30	24° \mathcal{M} 17'00		desc. node	155 Jul 17 j 09:29	17° \mathcal{Q} 15'16	
evening set	154 Sep 03 j 22:39	21° \mathcal{M} 32'21			155 Jul 28 j 05:28	0° \mathcal{M}	
min. Earth dist.	154 Sep 07 j 21:23	17° \mathcal{M} 33'31	0.65614 AU	evening max el	155 Jul 28 j 13:16	0° \mathcal{M} 18'45	27°21'48
inferior conj	154 Sep 09 j 17:44	15° \mathcal{M} 24'03	-2°21'38	retrograde	155 Aug 11 j 01:58	7° \mathcal{M} 37'48	
minimum elong	154 Sep 09 j 21:19	15° \mathcal{M} 13'36	2°20'19	evening set	155 Aug 18 j 04:52	4° \mathcal{M} 54'39	
morning rise	154 Sep 15 j 20:33	9° \mathcal{M} 43'37		min. Earth dist.	155 Aug 21 j 21:37	1° \mathcal{M} 31'16	0.64237 AU
asc. node	154 Sep 16 j 22:43	9° \mathcal{M} 15'56			155 Aug 23 j 08:09	30° \mathcal{R} \mathcal{Q}	
direct	154 Sep 18 j 16:58	8° \mathcal{M} 58'45		inferior conj	155 Aug 24 j 06:59	28° \mathcal{Q} 58'52	-3°14'45
morning max el	154 Sep 25 j 07:08	12° \mathcal{M} 34'47	18°21'21	minimum elong	155 Aug 24 j 11:36	28° \mathcal{Q} 46'36	3°13'21
	154 Oct 07 j 15:28	0° \mathcal{L}		morning rise	155 Aug 30 j 19:13	23° \mathcal{Q} 34'04	
morning set	154 Oct 14 j 13:34	11° \mathcal{L} 14'16		direct	155 Sep 02 j 10:11	22° \mathcal{Q} 58'59	
desc. node	154 Oct 26 j 11:50	0° \mathcal{M} 24'51		asc. node	155 Sep 03 j 19:47	23° \mathcal{Q} 09'06	
	154 Oct 26 j 05:35	0° \mathcal{M}		morning max el	155 Sep 08 j 22:33	26° \mathcal{Q} 25'48	17°58'23
					155 Sep 12 j 00:06	0° \mathcal{M}	
superior conj	154 Oct 29 j 16:31	5° \mathcal{M} 28'05	-0°20'56	morning set	155 Sep 26 j 04:49	22° \mathcal{M} 47'46	
minimum elong	154 Oct 29 j 13:46	5° \mathcal{M} 17'15	0°20'35		155 Sep 30 j 10:46	0° \mathcal{L}	
max. Earth dist.	154 Oct 31 j 15:05	8° \mathcal{M} 31'29	1.45013 AU				
	154 Nov 14 j 07:53	0° \mathcal{X}		superior conj	155 Oct 09 j 06:43	14° \mathcal{L} 36'19	0°26'55
evening rise	154 Nov 15 j 00:55	1° \mathcal{X} 06'44		minimum elong	155 Oct 09 j 09:42	14° \mathcal{L} 48'26	0°26'30
greatest brilliancy	154 Nov 25 j 21:07	18° \mathcal{X} 02'09	-0.8m	desc. node	155 Oct 13 j 08:51	21° \mathcal{L} 10'57	
	154 Dec 04 j 01:29	0° \mathcal{Z}		max. Earth dist.	155 Oct 14 j 09:23	22° \mathcal{L} 48'36	1.44432 AU
evening max el	154 Dec 08 j 12:21	5° \mathcal{Z} 20'54	19°20'37		155 Oct 18 j 22:46	0° \mathcal{M}	
asc. node	154 Dec 13 j 21:59	9° \mathcal{Z} 10'23		evening rise	155 Oct 25 j 12:33	10° \mathcal{M} 12'35	
retrograde	154 Dec 15 j 15:21	9° \mathcal{Z} 26'53			155 Nov 07 j 13:39	0° \mathcal{X}	
evening set	154 Dec 19 j 00:40	8° \mathcal{Z} 19'52		evening max el	155 Nov 21 j 16:19	18° \mathcal{X} 49'20	20°17'40
inferior conj	154 Dec 24 j 14:30	2° \mathcal{Z} 27'05	3°05'34	retrograde	155 Nov 29 j 12:59	23° \mathcal{X} 26'46	
minimum elong	154 Dec 24 j 11:46	2° \mathcal{Z} 35'54	3°04'53	asc. node	155 Nov 30 j 19:02	23° \mathcal{X} 17'51	
min. Earth dist.	154 Dec 25 j 21:35	0° \mathcal{Z} 47'06	0.66143 AU	evening set	155 Dec 03 j 06:50	22° \mathcal{X} 05'23	
	154 Dec 26 j 12:31	30° \mathcal{R} \mathcal{X}		inferior conj	155 Dec 08 j 17:12	15° \mathcal{X} 59'51	2°28'41
morning rise	154 Dec 29 j 22:37	26° \mathcal{X} 15'44		minimum elong	155 Dec 08 j 14:30	16° \mathcal{X} 08'56	2°27'48
direct	155 Jan 05 j 06:01	23° \mathcal{X} 28'39		min. Earth dist.	155 Dec 09 j 11:04	14° \mathcal{X} 59'38	0.67012 AU
	155 Jan 16 j 21:26	0° \mathcal{Z}		morning rise	155 Dec 13 j 22:00	9° \mathcal{X} 46'45	
morning max el	155 Jan 17 j 19:27	0° \mathcal{Z} 54'13	26°07'14	direct	155 Dec 19 j 15:15	7° \mathcal{X} 15'00	
desc. node	155 Jan 22 j 11:01	6° \mathcal{Z} 00'39		morning max el	155 Dec 31 j 03:55	14° \mathcal{X} 07'03	24°47'42
	155 Feb 08 j 16:14	0° \approx		desc. node	156 Jan 09 j 08:04	24° \mathcal{X} 54'17	
morning set	155 Feb 23 j 00:22	24° \approx 33'27			156 Jan 13 j 02:50	0° \mathcal{Z}	
	155 Feb 25 j 21:30	0° \mathcal{X}			156 Feb 01 j 12:36	0° \approx	
max. Earth dist.	155 Feb 26 j 23:33	2° \mathcal{X} 05'42	1.35379 AU	morning set	156 Feb 05 j 06:52	6° \approx 32'02	
				max. Earth dist.	156 Feb 08 j 22:46	13° \approx 08'27	1.37219 AU
superior conj	155 Mar 04 j 01:24	12° \mathcal{X} 11'50	-1°14'44				
minimum elong	155 Mar 04 j 04:51	12° \mathcal{X} 29'22	1°14'10	superior conj	156 Feb 15 j 11:49	25° \approx 32'51	-1°37'36
evening rise	155 Mar 11 j 20:49	28° \mathcal{X} 17'26		minimum elong	156 Feb 15 j 15:44	25° \approx 51'55	1°37'08
asc. node	155 Mar 11 j 21:19	28° \mathcal{X} 20'00			156 Feb 17 j 18:09	0° \mathcal{X}	
	155 Mar 12 j 16:54	0° \mathcal{Y}		evening rise	156 Feb 23 j 22:51	12° \mathcal{X} 23'33	
evening max el	155 Mar 30 j 06:49	28° \mathcal{Y} 05'35	20°26'01	asc. node	156 Feb 26 j 18:21	17° \mathcal{X} 56'57	
	155 Apr 01 j 11:35	0° \mathcal{B}			156 Mar 04 j 10:06	0° \mathcal{Y}	
retrograde	155 Apr 10 j 03:08	3° \mathcal{B} 18'49		evening max el	156 Mar 11 j 22:30	9° \mathcal{Y} 52'09	19°21'42
evening set	155 Apr 12 j 06:07	3° \mathcal{B} 07'40		retrograde	156 Mar 21 j 02:18	14° \mathcal{Y} 16'25	
	155 Apr 19 j 22:09	30° \mathcal{R} \mathcal{Y}		evening set	156 Mar 23 j 06:24	14° \mathcal{Y} 02'39	
desc. node	155 Apr 20 j 10:09	29° \mathcal{Y} 42'51		inferior conj	156 Mar 31 j 15:52	9° \mathcal{Y} 54'46	1°33'13
inferior conj	155 Apr 21 j 08:47	29° \mathcal{Y} 10'01	-0°16'16	minimum elong	156 Mar 31 j 19:24	9° \mathcal{Y} 48'57	1°32'04
minimum elong	155 Apr 21 j 08:02	29° \mathcal{Y} 11'07	0°15'58	min. Earth dist.	156 Apr 03 j 10:40	8° \mathcal{Y} 05'26	0.56262 AU
min. Earth dist.	155 Apr 22 j 20:02	28° \mathcal{Y} 18'41	0.55195 AU	desc. node	156 Apr 06 j 07:12	6° \mathcal{Y} 24'47	
morning rise	155 Apr 30 j 08:36	24° \mathcal{Y} 54'08		morning rise	156 Apr 09 j 05:38	5° \mathcal{Y} 06'52	
direct	155 May 04 j 00:27	24° \mathcal{Y} 25'04		direct	156 Apr 13 j 22:12	4° \mathcal{Y} 16'39	
	155 May 16 j 09:14	0° \mathcal{B}		morning max el	156 Apr 28 j 01:42	11° \mathcal{Y} 28'01	25°03'26

	156 May 12 j 05:19	0°♄		157 May 04 j 23:17	0°♄	
morning set	156 May 24 j 09:13	22°♄59'08		morning set	157 May 08 j 20:08	7°♄53'52
asc. node	156 May 24 j 17:38	23°♄43'34		asc. node	157 May 11 j 14:40	13°♄48'25
	156 May 27 j 15:50	0°♂				
superior conj	156 May 31 j 09:04	8°♂06'14	1°05'02	superior conj	157 May 15 j 20:36	23°♄05'12 0°43'36
minimum elong	156 May 31 j 06:43	7°♂53'25	1°04'38	minimum elong	157 May 15 j 18:49	22°♄55'24 0°43'14
max. Earth dist.	156 Jun 01 j 15:22	10°♂51'02	1.32844 AU	max. Earth dist.	157 May 16 j 03:01	23°♄40'27 1.32401 AU
evening rise	156 Jun 07 j 13:22	23°♂22'55		evening rise	157 May 19 j 00:27	0°♂
	156 Jun 10 j 20:38	0°♅			157 May 22 j 19:39	8°♂06'36
	156 Jun 28 j 18:58	0°♆		desc. node	157 Jun 03 j 07:17	0°♅
desc. node	156 Jul 03 j 06:29	5°♆51'55		evening max el	157 Jun 20 j 03:30	23°♅24'23
evening max el	156 Jul 09 j 22:09	13°♆09'25	27°21'18		157 Jun 22 j 01:45	25°♅19'51 26°47'51
retrograde	156 Jul 23 j 17:02	20°♆27'11		retrograde	157 Jun 27 j 23:38	0°♆
evening set	156 Jul 30 j 21:46	17°♆57'53		evening set	157 Jul 06 j 00:57	2°♆35'36
min. Earth dist.	156 Aug 03 j 11:38	15°♆03'32	0.62513 AU		157 Jul 12 j 20:54	0°♆33'58
inferior conj	156 Aug 06 j 09:40	12°♆17'40	-4°01'13	min. Earth dist.	157 Jul 13 j 19:02	30°♆♄
minimum elong	156 Aug 06 j 14:24	12°♆06'24	4°00'10	inferior conj	157 Jul 16 j 15:25	27°♅55'22 0.60526 AU
morning rise	156 Aug 13 j 08:20	7°♆12'01		minimum elong	157 Jul 19 j 22:18	25°♅11'31 -4°34'54
direct	156 Aug 15 j 20:19	6°♆43'52		morning rise	157 Jul 20 j 01:32	25°♅04'44 4°34'31
asc. node	156 Aug 20 j 16:51	8°♆32'31		direct	157 Jul 27 j 08:04	20°♅27'42
morning max el	156 Aug 22 j 13:58	10°♆09'42	17°53'28	morning max el	157 Jul 29 j 19:19	20°♅04'15
	156 Sep 04 j 17:24	0°♇		asc. node	157 Aug 06 j 02:23	23°♅38'34 18°07'36
morning set	156 Sep 07 j 18:14	5°♇25'00		morning set	157 Aug 07 j 13:54	25°♅11'47
					157 Aug 11 j 05:25	0°♇
superior conj	156 Sep 18 j 23:10	25°♇03'11	1°05'07		157 Aug 21 j 23:56	18°♇49'04
minimum elong	156 Sep 19 j 04:08	25°♇24'15	1°04'32		157 Aug 28 j 00:05	0°♇
	156 Sep 21 j 21:45	0°♈		superior conj	157 Aug 31 j 18:06	6°♇48'26 1°30'26
max. Earth dist.	156 Sep 26 j 00:09	6°♈44'47	1.43197 AU	minimum elong	157 Aug 31 j 22:01	7°♇05'55 1°30'05
desc. node	156 Sep 29 j 05:51	11°♈57'30		max. Earth dist.	157 Sep 08 j 09:08	20°♇02'50 1.41471 AU
evening rise	156 Oct 03 j 20:19	19°♈12'50		evening rise	157 Sep 13 j 17:42	28°♇52'20
	156 Oct 10 j 21:11	0°♉			157 Sep 14 j 10:30	0°♈
	156 Nov 01 j 11:36	0°♊		desc. node	157 Sep 16 j 02:51	2°♈40'54
evening max el	156 Nov 03 j 14:28	2°♊17'53	21°27'01		157 Oct 04 j 12:03	0°♉
retrograde	156 Nov 12 j 10:07	7°♊32'33		evening max el	157 Oct 17 j 07:09	15°♉47'16 22°44'38
evening set	156 Nov 16 j 14:29	5°♊55'01		retrograde	157 Oct 27 j 05:08	21°♉40'49
asc. node	156 Nov 16 j 16:04	5°♊51'52		evening set	157 Oct 31 j 21:52	19°♉45'54
inferior conj	156 Nov 21 j 23:05	29°♉40'05	1°44'45	asc. node	157 Nov 03 j 13:07	17°♉01'34
minimum elong	156 Nov 21 j 20:55	29°♉47'34	1°43'55	inferior conj	157 Nov 06 j 06:13	13°♉25'17 0°55'28
	156 Nov 21 j 17:18	30°♉♈		minimum elong	157 Nov 06 j 04:57	13°♉29'38 0°54'57
min. Earth dist.	156 Nov 22 j 05:15	29°♉18'46	0.67517 AU	min. Earth dist.	157 Nov 06 j 01:43	13°♉40'47 0.67685 AU
morning rise	156 Nov 27 j 03:12	23°♉27'01		morning rise	157 Nov 11 j 11:56	7°♉14'26
direct	156 Dec 02 j 05:08	21°♉16'09		direct	157 Nov 15 j 23:02	5°♉26'08
morning max el	156 Dec 12 j 13:00	27°♉24'46	23°20'13	morning max el	157 Nov 25 j 01:47	10°♉48'24 21°54'03
	156 Dec 14 j 23:10	0°♋			157 Dec 10 j 01:44	0°♊
desc. node	156 Dec 26 j 05:06	14°♋25'15		desc. node	157 Dec 13 j 02:08	4°♋22'39
	157 Jan 05 j 19:04	0°♌		morning set	157 Dec 27 j 13:06	26°♋33'28
morning set	157 Jan 16 j 12:34	17°♌15'02			157 Dec 29 j 16:21	0°♍
max. Earth dist.	157 Jan 20 j 17:59	24°♌28'42	1.39312 AU	max. Earth dist.	158 Jan 02 j 16:17	6°♍34'28 1.41394 AU
	157 Jan 23 j 21:00	0°♎				
superior conj	157 Jan 28 j 08:03	8°♎08'16	-1°54'40	superior conj	158 Jan 10 j 08:58	19°♍45'32 -2°02'10
minimum elong	157 Jan 28 j 11:08	8°♎22'40	1°54'29	minimum elong	158 Jan 10 j 09:15	19°♍46'45 2°02'11
evening rise	157 Feb 06 j 16:45	26°♎00'18			158 Jan 16 j 01:57	0°♎
	157 Feb 08 j 18:39	0°♏		evening rise	158 Jan 20 j 23:07	8°♎59'33
asc. node	157 Feb 12 j 15:22	7°♏12'18		asc. node	158 Jan 30 j 12:25	25°♎58'58
evening max el	157 Feb 22 j 23:48	22°♏13'56	18°37'16		158 Feb 02 j 03:47	0°♏
retrograde	157 Mar 02 j 19:27	26°♏02'54		evening max el	158 Feb 06 j 07:53	5°♏03'33 18°13'01
evening set	157 Mar 05 j 04:29	25°♏42'59		retrograde	158 Feb 13 j 06:45	8°♏33'05
inferior conj	157 Mar 12 j 18:59	21°♏16'52	2°51'13	evening set	158 Feb 15 j 20:52	8°♏04'53
minimum elong	157 Mar 12 j 23:09	21°♏08'50	2°50'14	inferior conj	158 Feb 22 j 18:51	3°♏18'02 3°34'32
min. Earth dist.	157 Mar 16 j 04:16	18°♏41'51	0.58001 AU	minimum elong	158 Feb 22 j 21:17	3°♏12'35 3°34'14
morning rise	157 Mar 20 j 14:58	15°♏57'21		min. Earth dist.	158 Feb 26 j 03:12	0°♏19'45 0.60069 AU
desc. node	157 Mar 24 j 04:15	14°♏45'59			158 Feb 26 j 12:38	30°♏♎
direct	157 Mar 26 j 09:45	14°♏33'24		morning rise	158 Mar 01 j 19:39	27°♎36'11
morning max el	157 Apr 09 j 18:23	22°♏08'23	26°28'53	direct	158 Mar 08 j 10:00	25°♎34'11
	157 Apr 16 j 16:37	0°♐		desc. node	158 Mar 11 j 01:17	25°♎52'48
					158 Mar 18 j 21:36	0°♑

morning max el	158 Mar 22 j 16:41	3° H 21'46	27°26'09	direct	159 Feb 18 j 19:58	7° \approx 22'48	
	158 Apr 11 j 04:58	0° Y		desc. node	159 Feb 25 j 22:21	9° \approx 38'30	
morning set	158 Apr 23 j 04:17	22° Y 38'58		morning max el	159 Mar 04 j 20:49	15° \approx 15'00	27°47'34
	158 Apr 26 j 15:39	0° B			159 Mar 16 j 21:45	0° H	
asc. node	158 Apr 28 j 11:42	3° B 58'43			159 Apr 03 j 17:44	0° Y	
max. Earth dist.	158 Apr 29 j 15:36	6° B 31'14	1.32328 AU	morning set	159 Apr 07 j 07:34	7° Y 06'06	
				max. Earth dist.	159 Apr 13 j 01:15	19° Y 08'55	1.32635 AU
superior conj	158 Apr 30 j 08:14	8° B 02'21	0°19'33				
minimum elong	158 Apr 30 j 07:21	7° B 57'34	0°19'21	superior conj	159 Apr 14 j 18:12	22° Y 50'25	-0°06'25
evening rise	158 May 07 j 05:39	22° B 59'42		minimum elong	159 Apr 14 j 18:30	22° Y 52'03	0°06'22
	158 May 10 j 15:09	0° II		behind sun begin	159 Apr 14 j 13:45	22° Y 26'18	
	158 May 28 j 20:30	0° E		behind sun end	159 Apr 14 j 23:14	23° Y 17'50	
evening max el	158 Jun 03 j 22:40	6° E 45'41	25°43'25	asc. node	159 Apr 15 j 08:44	24° Y 09'27	
desc. node	158 Jun 07 j 00:31	9° E 26'20			159 Apr 18 j 01:07	0° B	
retrograde	158 Jun 17 j 23:56	13° E 57'14		evening rise	159 Apr 21 j 17:18	7° B 53'59	
evening set	158 Jun 23 j 22:03	12° E 33'38			159 May 03 j 07:06	0° II	
min. Earth dist.	158 Jun 28 j 11:02	9° E 52'46	0.58470 AU	evening max el	159 May 16 j 14:09	17° II 33'32	24°16'26
inferior conj	158 Jul 01 j 17:25	7° E 31'27	-4°46'12	desc. node	159 May 24 j 21:34	23° II 22'18	
minimum elong	158 Jul 01 j 17:01	7° E 32'11	4°46'11	retrograde	159 May 30 j 11:07	24° II 32'48	
morning rise	158 Jul 09 j 14:28	3° E 09'54		evening set	159 Jun 04 j 00:34	23° II 46'27	
direct	158 Jul 12 j 02:53	2° E 49'34		min. Earth dist.	159 Jun 10 j 01:27	20° II 47'23	0.56645 AU
morning max el	158 Jul 20 j 08:42	6° E 43'39	18°41'54	inferior conj	159 Jun 12 j 16:28	19° II 08'17	-4°22'24
asc. node	158 Jul 25 j 10:56	12° E 51'49		minimum elong	159 Jun 12 j 11:18	19° II 16'28	4°21'39
	158 Aug 04 j 06:38	0° Ω		morning rise	159 Jun 21 j 00:48	15° II 05'43	
morning set	158 Aug 05 j 17:18	2° Ω 48'01		direct	159 Jun 23 j 15:51	14° II 47'14	
				morning max el	159 Jul 03 j 05:54	19° II 14'10	19°37'16
superior conj	158 Aug 14 j 10:25	19° Ω 37'48	1°43'41		159 Jul 11 j 13:06	0° E	
minimum elong	158 Aug 14 j 12:14	19° Ω 46'20	1°43'35	asc. node	159 Jul 12 j 07:59	1° E 18'08	
	158 Aug 20 j 01:48	0° H		morning set	159 Jul 20 j 18:45	17° E 11'39	
max. Earth dist.	158 Aug 21 j 13:12	2° H 37'14	1.39490 AU		159 Jul 27 j 03:16	0° Ω	
evening rise	158 Aug 25 j 14:52	9° H 39'22					
desc. node	158 Sep 02 j 23:52	23° H 17'37		superior conj	159 Jul 28 j 18:27	3° Ω 14'35	1°46'58
	158 Sep 07 j 08:44	0° L		minimum elong	159 Jul 28 j 18:18	3° Ω 13'49	1°46'58
evening max el	158 Sep 29 j 20:14	29° L 20'20	24°04'48	max. Earth dist.	159 Aug 03 j 16:46	14° Ω 38'10	1.37500 AU
	158 Sep 30 j 12:28	0° M		evening rise	159 Aug 07 j 12:11	21° Ω 35'07	
retrograde	158 Oct 10 j 20:41	5° M 48'46			159 Aug 12 j 08:27	0° H	
evening set	158 Oct 16 j 03:22	3° M 36'10		desc. node	159 Aug 20 j 20:54	13° H 42'45	
	158 Oct 19 j 10:56	30° R L			159 Sep 01 j 06:21	0° L	
min. Earth dist.	158 Oct 20 j 22:03	28° L 04'03	0.67537 AU	evening max el	159 Sep 12 j 08:01	12° L 57'33	25°20'35
asc. node	158 Oct 21 j 10:10	27° L 23'04		retrograde	159 Sep 24 j 07:55	19° L 52'25	
inferior conj	158 Oct 21 j 12:52	27° L 13'57	0°02'20	evening set	159 Sep 30 j 05:15	17° L 23'33	
minimum elong	158 Oct 21 j 12:48	27° L 14'09	0°02'19	min. Earth dist.	159 Oct 04 j 15:45	12° L 26'39	0.67064 AU
transit middle	158 Oct 21 j 12:48	27° L 14'09	0°02'19	inferior conj	159 Oct 05 j 17:18	11° L 03'45	-0°53'12
transit begin	158 Oct 21 j 10:06	27° L 23'17		minimum elong	159 Oct 05 j 18:38	10° L 59'24	0°52'38
transit end	158 Oct 21 j 15:30	27° L 05'01		asc. node	159 Oct 08 j 07:13	7° L 52'06	
morning rise	158 Oct 26 j 22:13	21° L 07'50		morning rise	159 Oct 11 j 08:09	5° L 05'20	
direct	158 Oct 30 j 19:53	19° L 41'08		direct	159 Oct 14 j 18:17	3° L 57'36	
morning max el	158 Nov 07 j 21:16	24° L 21'24	20°36'21	morning max el	159 Oct 22 j 00:31	8° L 04'59	19°31'42
	158 Nov 12 j 18:27	0° M			159 Nov 07 j 00:09	0° M	
desc. node	158 Nov 29 j 23:09	24° M 39'11		morning set	159 Nov 15 j 12:38	13° M 07'09	
	158 Dec 03 j 11:12	0° X		desc. node	159 Nov 16 j 20:12	15° M 09'35	
morning set	158 Dec 06 j 13:58	4° X 48'45			159 Nov 26 j 08:02	0° X	
max. Earth dist.	158 Dec 15 j 22:04	19° X 35'29	1.43189 AU	max. Earth dist.	159 Nov 28 j 11:34	3° X 23'37	1.44450 AU
superior conj	158 Dec 22 j 09:21	0° Z 12'46	-1°55'30	superior conj	159 Dec 02 j 07:06	9° X 28'06	-1°30'48
minimum elong	158 Dec 22 j 04:53	29° X 54'08	1°55'16	minimum elong	159 Dec 01 j 22:53	8° X 55'15	1°30'01
	158 Dec 22 j 06:17	0° Z			159 Dec 14 j 20:18	0° Z	
evening rise	159 Jan 03 j 13:55	21° Z 12'43		evening rise	159 Dec 16 j 08:54	2° Z 33'01	
	159 Jan 08 j 13:51	0° \approx			160 Jan 02 j 22:46	0° \approx	
asc. node	159 Jan 17 j 09:28	14° \approx 07'32		asc. node	160 Jan 04 j 06:31	1° \approx 27'03	
evening max el	159 Jan 20 j 19:38	18° \approx 11'37	18°08'19	evening max el	160 Jan 04 j 08:10	1° \approx 31'14	18°22'27
retrograde	159 Jan 27 j 08:31	21° \approx 36'28		retrograde	160 Jan 10 j 20:26	5° \approx 04'04	
evening set	159 Jan 30 j 03:16	20° \approx 58'43		evening set	160 Jan 13 j 19:58	4° \approx 15'52	
inferior conj	159 Feb 05 j 12:19	15° \approx 50'59	3°49'31		160 Jan 18 j 18:04	30° R Z	
minimum elong	159 Feb 05 j 12:32	15° \approx 50'26	3°49'31	inferior conj	160 Jan 19 j 19:26	28° Z 48'34	3°43'38
min. Earth dist.	159 Feb 08 j 09:51	12° \approx 54'25	0.62143 AU	minimum elong	160 Jan 19 j 17:55	28° Z 52'53	3°43'29
morning rise	159 Feb 11 j 20:38	9° \approx 55'24		min. Earth dist.	160 Jan 22 j 01:59	26° Z 13'33	0.63984 AU

morning rise	160 Jan 25 j 15:18	22° Z 44'29		inferior conj	161 Jan 02 j 12:28	12° Z 03'42	3°22'44
direct	160 Feb 01 j 13:38	19° Z 55'17		minimum elong	161 Jan 02 j 09:59	12° Z 11'26	3°22'15
desc. node	160 Feb 12 j 19:23	25° Z 29'22		min. Earth dist.	161 Jan 04 j 03:43	10° Z 02'03	0.65468 AU
morning max el	160 Feb 15 j 05:09	27° Z 45'15	27°32'26	morning rise	161 Jan 07 j 23:50	5° Z 54'11	
	160 Feb 17 j 08:46	0° \approx		direct	161 Jan 14 j 13:56	3° Z 02'55	
	160 Mar 09 j 14:44	0° H		morning max el	161 Jan 27 j 14:59	10° Z 41'23	26°45'29
morning set	160 Mar 21 j 03:29	21° H 07'17		desc. node	161 Jan 29 j 16:26	12° Z 50'46	
	160 Mar 25 j 12:31	0° Y			161 Feb 11 j 23:15	0° \approx	
max. Earth dist.	160 Mar 26 j 04:09	1° Y 21'24	1.33352 AU		161 Mar 02 j 02:46	0° H	
				morning set	161 Mar 04 j 12:40	4° H 31'49	
superior conj	160 Mar 29 j 00:43	7° Y 23'30	-0°33'20	max. Earth dist.	161 Mar 08 j 20:37	12° H 59'36	1.34509 AU
minimum elong	160 Mar 29 j 02:20	7° Y 32'06	0°33'00				
asc. node	160 Apr 01 j 05:48	14° Y 16'40		superior conj	161 Mar 13 j 01:37	21° H 34'39	-1°00'04
evening rise	160 Apr 05 j 04:49	22° Y 43'13		minimum elong	161 Mar 13 j 04:29	21° H 49'31	0°59'32
	160 Apr 08 j 17:48	0° B			161 Mar 17 j 02:10	0° Y	
evening max el	160 Apr 27 j 05:29	28° B 07'05	22°40'57	asc. node	161 Mar 19 j 02:52	4° Y 15'49	
	160 Apr 29 j 07:57	0° II		evening rise	161 Mar 20 j 14:19	7° Y 20'38	
retrograde	160 May 10 j 09:34	4° II 38'08			161 Apr 01 j 22:08	0° B	
desc. node	160 May 10 j 18:36	4° II 37'49		evening max el	161 Apr 09 j 03:39	8° B 56'09	21°11'10
evening set	160 May 13 j 13:40	4° II 16'05		retrograde	161 Apr 20 j 23:40	14° B 41'02	
min. Earth dist.	160 May 21 j 13:47	0° II 46'34	0.55389 AU	evening set	161 Apr 23 j 06:47	14° B 28'47	
inferior conj	160 May 22 j 20:53	0° II 02'10	-3°13'29	desc. node	161 Apr 27 j 15:36	13° B 05'37	
minimum elong	160 May 22 j 13:34	0° II 12'37	3°11'29	inferior conj	161 May 02 j 15:19	10° B 29'33	-1°25'30
	160 May 22 j 22:24	30° R B		minimum elong	161 May 02 j 11:18	10° B 35'13	1°24'04
morning rise	160 May 31 j 15:42	26° B 08'49		min. Earth dist.	161 May 03 j 02:34	10° B 13'42	0.54978 AU
direct	160 Jun 03 j 11:02	25° B 50'34		morning rise	161 May 11 j 15:57	6° B 27'23	
	160 Jun 13 j 11:23	0° II		direct	161 May 14 j 21:04	6° B 05'02	
morning max el	160 Jun 14 j 16:08	1° II 03'07	20°53'12	morning max el	161 May 27 j 15:47	12° B 10'26	22°26'01
asc. node	160 Jun 28 j 05:02	20° II 19'52			161 Jun 09 j 20:21	0° II	
	160 Jul 03 j 03:35	0° E		asc. node	161 Jun 15 j 02:06	9° II 48'12	
morning set	160 Jul 04 j 01:38	1° E 52'49		morning set	161 Jun 18 j 11:54	16° II 45'38	
					161 Jun 24 j 17:39	0° E	
superior conj	160 Jul 11 j 13:40	17° E 25'54	1°42'22				
minimum elong	160 Jul 11 j 12:06	17° E 17'56	1°42'17	superior conj	161 Jun 25 j 16:34	2° E 01'26	1°31'35
max. Earth dist.	160 Jul 16 j 01:29	26° E 28'36	1.35724 AU	minimum elong	161 Jun 25 j 14:15	1° E 49'14	1°31'21
	160 Jul 17 j 20:52	0° Q		max. Earth dist.	161 Jun 28 j 18:59	8° E 30'42	1.34291 AU
evening rise	160 Jul 20 j 05:31	4° Q 29'23		evening rise	161 Jul 03 j 14:04	18° E 09'33	
	160 Aug 04 j 05:00	0° P			161 Jul 09 j 21:54	0° Q	
desc. node	160 Aug 06 j 17:56	3° P 50'08		desc. node	161 Jul 24 j 14:56	23° Q 32'03	
evening max el	160 Aug 24 j 19:47	26° P 34'12	26°24'15		161 Jul 29 j 10:13	0° P	
	160 Aug 28 j 18:13	0° A		evening max el	161 Aug 07 j 07:36	10° P 02'33	27°08'09
retrograde	160 Sep 06 j 14:09	3° A 45'40		retrograde	161 Aug 20 j 15:08	17° P 21'36	
evening set	160 Sep 13 j 01:32	1° A 04'32		evening set	161 Aug 27 j 13:46	14° P 35'50	
	160 Sep 14 j 05:52	30° R P		min. Earth dist.	161 Aug 31 j 09:37	10° P 52'50	0.65076 AU
min. Earth dist.	160 Sep 17 j 04:20	26° P 44'38	0.66250 AU	inferior conj	161 Sep 02 j 11:34	8° P 32'27	-2°44'42
inferior conj	160 Sep 18 j 17:34	24° P 51'06	-1°49'35	minimum elong	161 Sep 02 j 15:40	8° P 20'57	2°43'17
minimum elong	160 Sep 18 j 20:22	24° P 42'34	1°48'28	morning rise	161 Sep 08 j 18:17	2° P 58'35	
asc. node	160 Sep 24 j 04:16	19° P 20'45		asc. node	161 Sep 11 j 01:18	2° P 19'27	
morning rise	160 Sep 24 j 15:37	19° P 03'25		direct	161 Sep 11 j 12:03	2° P 18'22	
direct	160 Sep 27 j 16:23	18° P 11'16		morning max el	161 Sep 18 j 00:40	5° P 49'22	18°09'27
morning max el	160 Oct 04 j 10:25	21° P 55'51	18°42'20		161 Oct 04 j 07:16	0° A	
	160 Oct 10 j 20:17	0° A		morning set	161 Oct 06 j 07:36	3° A 20'33	
morning set	160 Oct 25 j 07:46	22° A 31'20					
	160 Oct 30 j 00:52	0° M		superior conj	161 Oct 20 j 14:06	26° A 33'18	0°00'03
desc. node	160 Nov 02 j 17:14	5° M 48'59		minimum elong	161 Oct 20 j 14:05	26° A 33'16	0°00'03
				behind sun begin	161 Oct 20 j 03:38	25° A 51'41	
superior conj	160 Nov 10 j 09:57	17° M 55'31	-0°49'10	behind sun end	161 Oct 21 j 00:32	27° A 14'49	
minimum elong	160 Nov 10 j 03:42	17° M 30'57	0°48'23	desc. node	161 Oct 20 j 14:17	26° A 34'05	
max. Earth dist.	160 Nov 10 j 05:35	17° M 38'22	1.45022 AU		161 Oct 22 j 18:13	0° M	
	160 Nov 18 j 01:49	0° X		max. Earth dist.	161 Oct 24 j 00:18	1° M 58'48	1.44854 AU
evening rise	160 Nov 26 j 04:38	12° X 54'57		evening rise	161 Nov 06 j 01:46	22° M 22'45	
greatest brilliancy	160 Dec 03 j 11:46	24° X 35'45	-0.9m		161 Nov 10 j 23:53	0° X	
	160 Dec 06 j 21:53	0° Z		greatest brilliancy	161 Nov 18 j 20:41	12° X 01'29	-0.7m
evening max el	160 Dec 17 j 18:52	14° Z 56'25	18°54'30	evening max el	161 Dec 01 j 01:42	28° X 24'14	19°43'04
asc. node	160 Dec 21 j 03:34	17° Z 43'24			161 Dec 02 j 17:53	0° Z	
retrograde	160 Dec 24 j 14:32	18° Z 47'55		retrograde	161 Dec 08 j 11:39	2° Z 43'12	
evening set	160 Dec 27 j 19:49	17° Z 48'12		asc. node	161 Dec 08 j 00:36	2° Z 42'00	

evening set	161 Dec 12 j 00:17	1° S 30'24		asc. node	162 Nov 24 j 21:37	16° N 10'14	
	161 Dec 13 j 19:00	30° R 27		evening set	162 Nov 26 j 07:18	15° N 18'12	
inferior conj	161 Dec 17 j 12:24	25° N 31'37	2°50'52	inferior conj	162 Dec 01 j 16:44	9° N 08'22	2°10'47
minimum elong	161 Dec 17 j 09:37	25° N 40'47	2°50'06	minimum elong	162 Dec 01 j 14:13	9° N 16'59	2°09'55
min. Earth dist.	161 Dec 18 j 13:39	24° N 08'25	0.66561 AU	min. Earth dist.	162 Dec 02 j 05:33	8° N 24'35	0.67271 AU
morning rise	161 Dec 22 j 18:44	19° N 19'00		morning rise	162 Dec 06 j 20:56	2° N 54'49	
direct	161 Dec 28 j 20:14	16° N 37'31		direct	162 Dec 12 j 07:44	0° N 31'16	
morning max el	162 Jan 10 j 00:08	23° N 51'08	25°34'54	morning max el	162 Dec 23 j 08:28	7° N 06'11	24°10'44
	162 Jan 15 j 12:27	0° S		desc. node	163 Jan 03 j 10:32	20° N 28'08	
desc. node	162 Jan 16 j 13:30	1° S 16'39			163 Jan 10 j 04:56	0° S	
	162 Feb 05 j 08:38	0° \approx		morning set	163 Jan 28 j 03:20	28° S 35'55	
morning set	162 Feb 15 j 06:34	17° \approx 06'49			163 Jan 28 j 22:41	0° \approx	
max. Earth dist.	162 Feb 19 j 01:10	24° \approx 07'59	1.36115 AU	max. Earth dist.	163 Jan 31 j 21:16	5° \approx 12'15	1.38089 AU
	162 Feb 22 j 02:16	0° H					
superior conj	162 Feb 24 j 18:17	5° H 16'36	-1°24'58	superior conj	163 Feb 07 j 23:16	18° \approx 20'23	-1°45'45
minimum elong	162 Feb 24 j 22:02	5° H 35'23	1°24'25	minimum elong	163 Feb 08 j 03:02	18° \approx 38'23	1°45'25
evening rise	162 Mar 04 j 19:45	21° H 40'05		evening rise	163 Feb 16 j 18:42	5° H 35'00	
asc. node	162 Mar 05 j 23:55	24° H 02'22		asc. node	163 Feb 20 j 20:57	13° H 31'20	
	162 Mar 09 j 00:26	0° Y			163 Mar 03 j 03:44	0° Y	
evening max el	162 Mar 22 j 12:52	20° Y 20'33	19°56'18	evening max el	163 Mar 05 j 09:07	2° Y 24'06	19°00'24
retrograde	162 Apr 01 j 15:44	25° Y 12'04		retrograde	163 Mar 13 j 21:47	6° Y 30'56	
evening set	162 Apr 03 j 17:59	25° Y 00'31		evening set	163 Mar 16 j 03:53	6° Y 14'54	
inferior conj	162 Apr 12 j 14:02	21° Y 00'11	0°33'09	inferior conj	163 Mar 24 j 05:12	2° Y 00'16	2°10'40
minimum elong	162 Apr 12 j 15:30	20° Y 57'58	0°32'38	minimum elong	163 Mar 24 j 09:26	1° Y 52'50	2°09'27
min. Earth dist.	162 Apr 14 j 16:42	19° Y 43'04	0.55536 AU		163 Mar 27 j 02:03	30° R 27	
desc. node	162 Apr 14 j 12:39	19° Y 49'09		min. Earth dist.	163 Mar 27 j 08:33	29° H 49'03	0.56937 AU
morning rise	162 Apr 21 j 10:46	16° Y 31'01		morning rise	163 Apr 01 j 11:58	26° H 58'10	
direct	162 Apr 25 j 12:08	15° Y 54'42		desc. node	163 Apr 01 j 09:42	27° H 00'27	
morning max el	162 May 09 j 08:09	22° Y 47'12	24°06'59	direct	163 Apr 06 j 16:21	25° H 54'28	
	162 May 15 j 17:41	0° B			163 Apr 17 j 02:42	0° Y	
asc. node	162 Jun 01 j 23:09	29° B 35'12		morning max el	163 Apr 20 j 22:55	3° Y 17'55	25°42'26
	162 Jun 02 j 03:55	0° II			163 May 09 j 23:42	0° B	
morning set	162 Jun 02 j 23:40	1° II 43'25		morning set	163 May 18 j 11:22	16° B 40'56	
				asc. node	163 May 19 j 20:13	19° B 35'13	
superior conj	162 Jun 10 j 00:26	16° II 51'34	1°15'54		163 May 24 j 15:12	0° II	
minimum elong	162 Jun 09 j 21:57	16° II 38'10	1°15'32	superior conj	163 May 25 j 11:10	1° II 49'15	0°56'20
max. Earth dist.	162 Jun 11 j 21:31	20° II 54'06	1.33253 AU	minimum elong	163 May 25 j 09:00	1° II 37'26	0°55'56
	162 Jun 16 j 05:34	0° S		max. Earth dist.	163 May 26 j 06:53	3° II 37'04	1.32609 AU
evening rise	162 Jun 17 j 09:34	2° S 22'26		evening rise	163 Jun 01 j 12:44	16° II 57'48	
	162 Jul 02 j 18:14	0° Q			163 Jun 08 j 03:31	0° S	
desc. node	162 Jul 11 j 11:56	12° Q 36'55			163 Jun 27 j 16:13	0° Q	
evening max el	162 Jul 20 j 18:13	23° Q 10'49	27°25'33	desc. node	163 Jun 28 j 08:57	0° Q 49'07	
	162 Jul 31 j 02:56	0° P		evening max el	163 Jul 03 j 01:19	5° Q 46'15	27°11'15
retrograde	162 Aug 03 j 10:16	0° P 30'30		retrograde	163 Jul 16 j 22:29	13° Q 03'00	
	162 Aug 06 j 14:25	30° R Q			163 Jul 24 j 00:44	10° Q 44'13	
evening set	162 Aug 10 j 14:51	27° Q 51'26		evening set	163 Jul 27 j 15:30	7° Q 58'11	0.61689 AU
min. Earth dist.	162 Aug 14 j 05:42	24° Q 41'34	0.63540 AU	min. Earth dist.	163 Jul 30 j 17:50	5° Q 11'08	-4°17'36
inferior conj	162 Aug 16 j 20:42	22° Q 01'37	-3°35'36	inferior conj	163 Jul 30 j 22:11	5° Q 01'20	4°16'48
minimum elong	162 Aug 17 j 01:31	21° Q 49'22	3°34'17	minimum elong	163 Aug 06 j 21:09	0° Q 14'12	
morning rise	162 Aug 23 j 13:17	16° Q 44'40		morning rise	163 Aug 07 j 16:48	30° R 26	
direct	162 Aug 26 j 02:33	16° Q 13'00		direct	163 Aug 09 j 08:30	29° S 48'17	
asc. node	162 Aug 28 j 22:21	16° Q 52'22			163 Aug 10 j 23:42	0° Q	
morning max el	162 Sep 01 j 16:28	19° Q 38'41	17°54'00	asc. node	163 Aug 15 j 19:24	2° Q 49'38	
	162 Sep 09 j 08:14	0° P		morning max el	163 Aug 16 j 06:54	3° Q 16'50	17°57'01
morning set	162 Sep 18 j 09:02	15° P 23'26		morning set	163 Sep 01 j 06:04	28° Q 22'39	
	162 Sep 26 j 21:13	0° L			163 Sep 02 j 03:25	0° P	
superior conj	162 Sep 30 j 14:47	6° L 13'33	0°44'36	superior conj	163 Sep 11 j 18:53	17° P 14'43	1°17'26
minimum elong	162 Sep 30 j 19:06	6° L 31'23	0°44'02	minimum elong	163 Sep 11 j 23:39	17° P 35'22	1°16'55
max. Earth dist.	162 Oct 06 j 16:49	16° L 07'10	1.43980 AU	max. Earth dist.	163 Sep 19 j 05:12	29° P 48'37	1.42517 AU
desc. node	162 Oct 07 j 11:17	17° L 20'58			163 Sep 19 j 07:58	0° L	
	162 Oct 15 j 12:38	0° M		desc. node	163 Sep 24 j 08:16	8° L 06'47	
evening rise	162 Oct 16 j 09:27	1° M 20'24		evening rise	163 Sep 25 j 21:09	10° L 32'54	
	162 Nov 04 j 15:45	0° N			163 Oct 08 j 16:00	0° M	
evening max el	162 Nov 14 j 03:14	11° N 53'02	20°45'54	evening max el	163 Oct 27 j 23:04	25° M 22'29	21°59'25
retrograde	162 Nov 22 j 09:19	16° N 46'00					

	163 Nov 02 j 20:03	0°♊		retrograde	164 Oct 19 j 23:12	15°♍02'40	
retrograde	163 Nov 06 j 05:35	0°♊53'16		evening set	164 Oct 24 j 21:50	13°♍00'01	
	163 Nov 09 j 09:14	30°♍		asc. node	164 Oct 28 j 15:41	8°♍50'03	
evening set	163 Nov 10 j 15:01	29°♍08'34		inferior conj	164 Oct 30 j 06:31	6°♍38'22	0°33'21
asc. node	163 Nov 11 j 18:39	28°♍05'59		minimum elong	164 Oct 30 j 05:44	6°♍41'03	0°33'01
inferior conj	163 Nov 15 j 23:22	22°♍51'02	1°24'24	min. Earth dist.	164 Oct 29 j 21:35	7°♍09'00	0.67666 AU
minimum elong	163 Nov 15 j 21:33	22°♍57'21	1°23'41	morning rise	164 Nov 04 j 13:34	0°♍29'30	
min. Earth dist.	163 Nov 16 j 00:59	22°♍45'27	0.67634 AU		164 Nov 05 j 05:49	30°♍	
morning rise	163 Nov 21 j 03:55	16°♍38'43		direct	164 Nov 08 j 18:48	28°♍50'40	
direct	163 Nov 25 j 23:33	14°♍37'11			164 Nov 12 j 14:49	0°♍	
morning max el	163 Dec 05 j 18:31	20°♍25'26	22°42'50	morning max el	164 Nov 17 j 09:59	3°♍53'34	21°19'42
	163 Dec 13 j 21:25	0°♊			164 Dec 06 j 23:40	0°♊	
desc. node	163 Dec 21 j 07:33	10°♊11'33		desc. node	164 Dec 07 j 04:35	0°♊18'21	
	164 Jan 03 j 11:02	0°♋		morning set	164 Dec 18 j 09:41	17°♊29'29	
morning set	164 Jan 08 j 20:45	8°♋42'35		max. Earth dist.	164 Dec 25 j 19:04	29°♊22'32	1.42218 AU
max. Earth dist.	164 Jan 13 j 17:03	16°♋49'45	1.40221 AU		164 Dec 26 j 04:11	0°♋	
superior conj	164 Jan 21 j 11:59	0°♌33'06	-1°59'17	superior conj	165 Jan 02 j 03:05	11°♋42'15	-2°01'21
minimum elong	164 Jan 21 j 14:09	0°♌43'00	1°59'13	minimum elong	165 Jan 02 j 01:30	11°♋35'26	2°01'19
	164 Jan 21 j 04:41	0°♌			165 Jan 12 j 10:48	0°♌	
evening rise	164 Jan 31 j 08:08	18°♌56'50		evening rise	165 Jan 13 j 08:27	1°♌38'08	
	164 Feb 06 j 06:41	0°♌		asc. node	165 Jan 24 j 15:02	21°♌07'19	
asc. node	164 Feb 07 j 17:59	2°♌35'33		evening max el	165 Jan 29 j 23:43	27°♌57'23	18°08'32
evening max el	164 Feb 16 j 13:45	14°♌59'07	18°24'31		165 Feb 01 j 11:21	0°♌	
retrograde	164 Feb 23 j 22:54	18°♌37'36		retrograde	165 Feb 05 j 17:06	1°♌23'28	
evening set	164 Feb 26 j 10:20	18°♌14'11		evening set	165 Feb 08 j 09:12	0°♌51'16	
inferior conj	164 Mar 04 j 17:21	13°♌39'12	3°13'31		165 Feb 10 j 01:52	30°♌	
minimum elong	164 Mar 04 j 20:58	13°♌31'47	3°12'51	inferior conj	165 Feb 15 j 01:13	25°♌55'04	3°43'53
min. Earth dist.	164 Mar 08 j 03:48	10°♌51'30	0.58868 AU	minimum elong	165 Feb 15 j 02:42	25°♌51'34	3°43'46
morning rise	164 Mar 12 j 05:06	8°♌09'21		min. Earth dist.	165 Feb 18 j 05:37	22°♌54'53	0.60973 AU
direct	164 Mar 18 j 09:31	6°♌29'06		morning rise	165 Feb 21 j 18:32	20°♌06'21	
desc. node	164 Mar 18 j 06:44	6°♌29'08		direct	165 Feb 28 j 13:50	17°♌50'19	
morning max el	164 Apr 01 j 17:32	14°♌09'33	26°57'17	desc. node	165 Mar 05 j 03:47	18°♌46'45	
	164 Apr 14 j 09:28	0°♍		morning max el	165 Mar 14 j 18:37	25°♌40'13	27°39'51
	164 May 01 j 03:38	0°♌			165 Mar 18 j 19:13	0°♌	
morning set	164 May 01 j 21:18	1°♌31'57		morning set	165 Apr 07 j 19:23	0°♍	
asc. node	164 May 05 j 17:16	9°♌42'47		max. Earth dist.	165 Apr 16 j 03:40	16°♍10'13	
				asc. node	165 Apr 22 j 07:29	29°♍16'25	1.32416 AU
superior conj	164 May 08 j 22:55	16°♌47'44	0°33'40		165 Apr 22 j 14:19	29°♍53'40	
minimum elong	164 May 08 j 21:29	16°♌39'50	0°33'22		165 Apr 22 j 15:29	0°♌	
max. Earth dist.	164 May 08 j 19:29	16°♌28'54	1.32331 AU				
	164 May 15 j 00:44	0°♎		superior conj	165 Apr 23 j 10:02	1°♌41'18	0°08'42
evening rise	164 May 15 j 20:52	1°♎46'17		minimum elong	165 Apr 23 j 09:38	1°♌39'08	0°08'37
	164 May 31 j 04:48	0°♎		behind sun begin	165 Apr 23 j 05:21	1°♌15'44	
evening max el	164 Jun 14 j 02:19	17°♎37'56	26°23'55	behind sun end	165 Apr 23 j 13:55	2°♌02'32	
desc. node	164 Jun 14 j 05:59	17°♎46'39		evening rise	165 Apr 30 j 07:48	16°♌40'26	
retrograde	164 Jun 28 j 02:27	24°♎51'26			165 May 06 j 22:48	0°♎	
evening set	164 Jul 04 j 14:52	23°♎05'24		evening max el	165 May 26 j 20:19	28°♎44'34	25°08'16
min. Earth dist.	164 Jul 08 j 15:21	20°♎28'08	0.59645 AU		165 May 28 j 05:06	0°♎	
inferior conj	164 Jul 11 j 23:25	17°♎51'35	-4°43'09	desc. node	165 Jun 01 j 03:02	2°♎59'19	
minimum elong	164 Jul 12 j 01:22	17°♎47'45	4°43'01	retrograde	165 Jun 09 j 20:33	5°♎52'32	
morning rise	164 Jul 19 j 13:56	13°♎17'09		evening set	165 Jun 15 j 05:58	4°♎45'24	
direct	164 Jul 22 j 01:40	12°♎55'02		min. Earth dist.	165 Jun 20 j 07:57	1°♎58'44	0.57643 AU
morning max el	164 Jul 29 j 17:00	16°♎36'07	18°19'43	inferior conj	165 Jun 23 j 10:04	29°♎53'09	-4°41'09
asc. node	164 Aug 01 j 16:27	19°♎56'16		minimum elong	165 Jun 23 j 07:37	29°♎57'20	4°41'00
	164 Aug 08 j 04:56	0°♏			165 Jun 23 j 06:03	30°♎	
morning set	164 Aug 14 j 17:16	12°♏03'14		morning rise	165 Jul 01 j 11:59	25°♎40'49	
				direct	165 Jul 04 j 01:30	25°♎21'23	
superior conj	164 Aug 23 j 23:39	29°♏29'21	1°37'25	morning max el	165 Jul 12 j 19:45	29°♎27'19	19°03'02
minimum elong	164 Aug 24 j 02:42	29°♏43'20	1°37'12		165 Jul 13 j 09:17	0°♎	
	164 Aug 24 j 06:21	0°♐		asc. node	165 Jul 19 j 13:31	7°♎57'13	
max. Earth dist.	164 Aug 31 j 12:26	12°♐50'39	1.40646 AU	morning set	165 Jul 29 j 14:24	26°♎13'20	
evening rise	164 Sep 05 j 04:07	20°♐39'45			165 Jul 31 j 12:12	0°♏	
desc. node	164 Sep 10 j 05:18	28°♐48'10					
	164 Sep 10 j 23:33	0°♑		superior conj	165 Aug 06 j 23:17	12°♏40'42	1°46'10
	164 Oct 01 j 21:05	0°♍		minimum elong	165 Aug 07 j 00:12	12°♏45'08	1°46'09
evening max el	164 Oct 09 j 14:04	8°♍54'06	23°18'47	max. Earth dist.	165 Aug 13 j 15:40	25°♏08'49	1.38619 AU

	165 Aug 16 j 09:09	0°♎		evening rise	166 Jul 30 j 18:14	14°♎18'38	
evening rise	165 Aug 17 j 11:47	1°♎56'02			166 Aug 08 j 20:14	0°♎	
desc. node	165 Aug 28 j 02:20	19°♎20'34		desc. node	166 Aug 14 j 23:23	9°♎39'00	
	165 Sep 04 j 05:04	0°♏			166 Aug 29 j 22:44	0°♏	
evening max el	165 Sep 22 j 02:09	22°♏28'22	24°37'59	evening max el	166 Sep 04 j 13:39	6°♏05'26	25°49'37
retrograde	165 Oct 03 j 13:05	29°♏09'41		retrograde	166 Sep 16 j 22:25	13°♏09'29	
evening set	165 Oct 09 j 02:02	26°♏49'33		evening set	166 Sep 23 j 01:48	10°♏34'42	
min. Earth dist.	165 Oct 13 j 17:01	21°♏32'22	0.67373 AU	min. Earth dist.	166 Sep 27 j 08:54	5°♏53'14	0.66755 AU
inferior conj	165 Oct 14 j 12:25	20°♏27'43	-0°21'00	inferior conj	166 Sep 28 j 15:19	4°♏16'49	-1°17'08
minimum elong	165 Oct 14 j 12:56	20°♏26'00	0°20'47	minimum elong	166 Sep 28 j 17:17	4°♏10'36	1°16'19
asc. node	165 Oct 15 j 12:44	19°♏07'26		asc. node	166 Oct 02 j 09:47	29°♏56'04	
morning rise	165 Oct 19 j 23:55	14°♏24'44			166 Oct 02 j 08:08	30°♏♎	
direct	165 Oct 23 j 16:21	13°♏06'41		morning rise	166 Oct 04 j 09:02	28°♏22'30	
morning max el	165 Oct 31 j 08:55	17°♏31'54	20°07'10	direct	166 Oct 07 j 14:48	27°♏21'59	
	165 Nov 10 j 05:09	0°♏			166 Oct 13 j 05:38	0°♏	
desc. node	165 Nov 24 j 01:37	20°♏41'24		morning max el	166 Oct 14 j 15:10	1°♏18'54	19°08'42
morning set	165 Nov 27 j 06:28	25°♏37'18			166 Nov 03 j 17:41	0°♏	
	165 Nov 30 j 02:11	0°♏		morning set	166 Nov 06 j 11:37	4°♏17'30	
max. Earth dist.	165 Dec 08 j 04:19	12°♏45'31	1.43801 AU	desc. node	166 Nov 10 j 22:39	11°♏15'55	
				max. Earth dist.	166 Nov 20 j 19:26	26°♏44'44	1.44778 AU
superior conj	165 Dec 13 j 15:58	21°♏37'54	-1°47'20		166 Nov 22 j 20:53	0°♏	
minimum elong	165 Dec 13 j 09:29	21°♏11'24	1°46'52				
	165 Dec 18 j 17:12	0°♏		superior conj	166 Nov 23 j 03:55	0°♏27'46	-1°14'50
evening rise	165 Dec 26 j 15:23	13°♏30'08		minimum elong	166 Nov 22 j 19:42	29°♏55'17	1°13'57
	166 Jan 05 j 08:17	0°♏		evening rise	166 Dec 08 j 00:42	24°♏25'32	
asc. node	166 Jan 11 j 12:04	8°♏56'42			166 Dec 11 j 10:04	0°♏	
evening max el	166 Jan 13 j 12:04	11°♏11'01	18°12'00	evening max el	166 Dec 28 j 00:06	24°♏33'47	18°34'00
retrograde	166 Jan 19 j 23:50	14°♏38'13		asc. node	166 Dec 29 j 09:06	25°♏51'19	
evening set	166 Jan 22 j 20:24	13°♏56'18		retrograde	167 Jan 03 j 14:42	28°♏13'21	
inferior conj	166 Jan 29 j 01:01	8°♏40'00	3°49'11	evening set	167 Jan 06 j 16:28	27°♏20'33	
minimum elong	166 Jan 29 j 00:24	8°♏41'38	3°49'09	inferior conj	167 Jan 12 j 12:45	21°♏45'56	3°36'19
min. Earth dist.	166 Jan 31 j 16:25	5°♏50'25	0.62963 AU	minimum elong	167 Jan 12 j 10:44	21°♏51'55	3°36'02
morning rise	166 Feb 04 j 03:29	2°♏39'57		min. Earth dist.	167 Jan 14 j 12:50	19°♏23'44	0.64663 AU
	166 Feb 10 j 10:02	30°♏♎		morning rise	167 Jan 18 j 04:32	15°♏39'09	
direct	166 Feb 11 j 03:19	29°♏58'22		direct	167 Jan 25 j 00:11	12°♏47'00	
	166 Feb 11 j 20:47	0°♏		desc. node	167 Feb 06 j 21:52	20°♏03'24	
desc. node	166 Feb 20 j 00:50	3°♏30'20		morning max el	167 Feb 07 j 10:16	20°♏34'05	27°15'50
morning max el	166 Feb 25 j 01:06	7°♏51'27	27°45'24		167 Feb 15 j 14:09	0°♏	
	166 Mar 14 j 02:01	0°♏			167 Mar 07 j 03:37	0°♏	
	166 Mar 30 j 22:36	0°♏		morning set	167 Mar 14 j 20:03	14°♏15'40	
morning set	166 Mar 31 j 04:14	0°♏28'17		max. Earth dist.	167 Mar 19 j 13:21	23°♏42'52	1.33784 AU
max. Earth dist.	166 Apr 05 j 14:46	11°♏45'18	1.32884 AU				
				superior conj	167 Mar 22 j 23:13	0°♏49'21	-0°44'47
superior conj	166 Apr 07 j 18:48	16°♏24'19	-0°17'48	minimum elong	167 Mar 23 j 01:23	1°♏00'46	0°44'21
minimum elong	166 Apr 07 j 19:39	16°♏28'54	0°17'36		167 Mar 22 j 13:51	0°♏	
asc. node	166 Apr 09 j 11:23	20°♏03'48		asc. node	167 Mar 27 j 08:25	10°♏08'14	
	166 Apr 14 j 01:58	0°♏		evening rise	167 Mar 30 j 06:31	16°♏18'45	
evening rise	166 Apr 14 j 19:38	1°♏33'42			167 Apr 06 j 03:52	0°♏	
	166 Apr 30 j 14:14	0°♏		evening max el	167 Apr 20 j 04:23	20°♏00'31	22°01'27
evening max el	166 May 08 j 10:46	9°♏22'52	23°35'55	retrograde	167 May 02 j 20:45	26°♏13'25	
desc. node	166 May 19 j 00:04	15°♏51'16		evening set	167 May 05 j 13:38	25°♏57'12	
retrograde	166 May 22 j 02:50	16°♏13'23		desc. node	167 May 05 j 21:06	25°♏53'20	
evening set	166 May 26 j 01:08	15°♏39'21		inferior conj	167 May 14 j 23:27	21°♏51'38	-2°31'14
min. Earth dist.	166 Jun 01 j 21:20	12°♏28'35	0.56014 AU	minimum elong	167 May 14 j 16:55	22°♏00'49	2°29'10
inferior conj	166 Jun 04 j 00:43	11°♏11'30	-3°58'55	min. Earth dist.	167 May 14 j 10:01	22°♏10'30	0.55098 AU
minimum elong	166 Jun 03 j 18:03	11°♏21'32	3°57'33	morning rise	167 May 23 j 21:33	17°♏56'33	
morning rise	166 Jun 12 j 13:46	7°♏14'42		direct	167 May 26 j 20:01	17°♏37'18	
direct	166 Jun 15 j 06:00	6°♏56'49		morning max el	167 Jun 07 j 18:07	23°♏12'49	21°30'54
morning max el	166 Jun 25 j 12:35	11°♏41'58	20°07'15		167 Jun 13 j 16:38	0°♏	
asc. node	166 Jul 06 j 10:35	26°♏40'15		asc. node	167 Jun 23 j 07:39	15°♏54'16	
	166 Jul 08 j 06:42	0°♏		morning set	167 Jun 28 j 02:58	25°♏31'54	
morning set	166 Jul 13 j 18:26	10°♏45'22			167 Jun 30 j 06:20	0°♏	
superior conj	166 Jul 21 j 12:35	26°♏34'07	1°45'52	superior conj	167 Jul 05 j 11:25	10°♏56'36	1°38'28
minimum elong	166 Jul 21 j 11:45	26°♏29'57	1°45'51	minimum elong	167 Jul 05 j 09:28	10°♏46'27	1°38'19
	166 Jul 23 j 05:52	0°♏		max. Earth dist.	167 Jul 09 j 08:20	18°♏52'42	1.35071 AU
max. Earth dist.	166 Jul 26 j 20:16	7°♏00'14	1.36702 AU	evening rise	167 Jul 13 j 18:38	27°♏34'07	

	167 Jul 15 j 01:26	0°♎			168 Jun 20 j 17:52	0°♏	
desc. node	167 Aug 01 j 20:25	29°♎36'28		max. Earth dist.	168 Jun 21 j 06:07	1°♏04'28	1.33811 AU
	167 Aug 02 j 02:53	0°♐		evening rise	168 Jun 26 j 08:19	11°♏29'26	
evening max el	167 Aug 18 j 01:41	19°♐40'10	26°45'53		168 Jul 06 j 08:46	0°♎	
retrograde	167 Aug 31 j 02:30	26°♐55'45		desc. node	168 Jul 18 j 17:26	19°♎03'54	
evening set	167 Sep 06 j 18:58	24°♐11'51			168 Jul 27 j 14:05	0°♐	
min. Earth dist.	167 Sep 10 j 18:47	20°♐07'30	0.65790 AU	evening max el	168 Jul 30 j 13:24	3°♐01'45	27°19'11
inferior conj	167 Sep 12 j 13:12	18°♐02'10	-2°13'18	retrograde	168 Aug 13 j 00:46	10°♐20'44	
minimum elong	167 Sep 12 j 16:36	17°♐52'09	2°12'01	evening set	168 Aug 20 j 02:49	7°♐36'32	
morning rise	167 Sep 18 j 14:44	12°♐19'39		min. Earth dist.	168 Aug 23 j 20:19	4°♐08'17	0.64467 AU
asc. node	167 Sep 19 j 06:50	12°♐00'36		inferior conj	168 Aug 26 j 03:46	1°♐38'47	-3°07'05
direct	167 Sep 21 j 12:13	11°♐32'57		minimum elong	168 Aug 26 j 08:15	1°♐26'38	3°05'39
morning max el	167 Sep 28 j 03:08	15°♐10'55	18°26'13		168 Aug 27 j 17:06	30°♎♎	
	167 Oct 08 j 21:30	0°♑		morning rise	168 Sep 01 j 14:31	26°♎11'34	
morning set	167 Oct 17 j 18:50	14°♑17'51		direct	168 Sep 04 j 06:11	25°♎35'13	
	167 Oct 27 j 13:55	0°♒		asc. node	168 Sep 05 j 03:53	25°♎39'30	
desc. node	167 Oct 28 j 19:41	1°♒58'01		morning max el	168 Sep 10 j 18:19	29°♎02'41	18°00'42
					168 Sep 11 j 16:05	0°♐	
superior conj	167 Nov 02 j 04:27	8°♒51'40	-0°28'28	morning set	168 Sep 28 j 06:15	25°♐40'24	
minimum elong	167 Nov 02 j 00:43	8°♒36'57	0°27'57		168 Sep 30 j 19:47	0°♑	
max. Earth dist.	167 Nov 03 j 14:04	11°♒03'57	1.45039 AU				
	167 Nov 15 j 15:29	0°♑		superior conj	168 Oct 11 j 15:28	17°♑50'20	0°20'08
evening rise	167 Nov 18 j 10:16	4°♑22'47		minimum elong	168 Oct 11 j 17:48	17°♑59'44	0°19'49
greatest brilliancy	167 Nov 28 j 11:54	20°♑11'30	-0.8m	desc. node	168 Oct 14 j 16:42	22°♑43'53	
	167 Dec 05 j 00:42	0°♒		max. Earth dist.	168 Oct 16 j 08:43	25°♑23'01	1.44563 AU
evening max el	167 Dec 11 j 09:30	8°♒01'11	19°13'21		168 Oct 19 j 06:54	0°♒	
asc. node	167 Dec 16 j 06:07	11°♒36'54		evening rise	168 Oct 27 j 23:56	13°♒33'11	
retrograde	167 Dec 18 j 10:19	12°♒03'00			168 Nov 07 j 18:36	0°♑	
evening set	167 Dec 21 j 18:34	10°♒57'52		greatest brilliancy	168 Nov 11 j 02:35	4°♑58'10	-0.6m
inferior conj	167 Dec 27 j 09:03	5°♒07'09	3°10'21	evening max el	168 Nov 23 j 14:12	21°♑29'16	20°08'16
minimum elong	167 Dec 27 j 06:22	5°♒15'44	3°09'45	retrograde	168 Dec 01 j 07:53	26°♑01'45	
min. Earth dist.	167 Dec 28 j 18:11	3°♒21'32	0.65983 AU	asc. node	168 Dec 02 j 03:09	25°♑58'05	
	167 Dec 31 j 15:25	30°♒♑		evening set	168 Dec 05 j 00:21	24°♑42'34	
morning rise	168 Jan 01 j 17:55	28°♑56'19		inferior conj	168 Dec 10 j 11:06	18°♑38'36	2°34'43
direct	168 Jan 08 j 03:13	26°♑07'50		minimum elong	168 Dec 10 j 08:22	18°♑47'46	2°33'53
	168 Jan 16 j 20:00	0°♒		min. Earth dist.	168 Dec 11 j 06:48	17°♑32'33	0.66907 AU
morning max el	168 Jan 20 j 19:45	3°♒36'53	26°17'47	morning rise	168 Dec 15 j 16:13	12°♑25'35	
desc. node	168 Jan 24 j 18:53	7°♒55'03		direct	168 Dec 21 j 11:36	9°♑51'14	
	168 Feb 09 j 22:10	0°♓		morning max el	169 Jan 02 j 04:25	16°♑49'10	25°00'17
morning set	168 Feb 25 j 23:20	27°♓21'08		desc. node	169 Jan 10 j 15:55	26°♑41'43	
	168 Feb 27 j 09:01	0°♔			169 Jan 13 j 04:03	0°♒	
max. Earth dist.	168 Mar 01 j 00:36	5°♔06'43	1.35144 AU		169 Feb 01 j 21:36	0°♓	
				morning set	169 Feb 07 j 09:00	9°♓29'40	
superior conj	168 Mar 05 j 21:01	14°♔49'44	-1°10'57	max. Earth dist.	169 Feb 11 j 01:10	16°♓10'29	1.36925 AU
minimum elong	168 Mar 06 j 00:20	15°♔06'39	1°10'24				
asc. node	168 Mar 13 j 05:27	0°♕02'53		superior conj	169 Feb 17 j 09:11	28°♓16'24	-1°34'26
	168 Mar 13 j 04:54	0°♕		minimum elong	169 Feb 17 j 13:05	28°♓35'35	1°33'58
evening rise	168 Mar 13 j 14:33	0°♕49'45			169 Feb 18 j 06:12	0°♔	
	168 Mar 31 j 05:48	0°♖		evening rise	169 Feb 25 j 17:33	14°♔59'39	
evening max el	168 Apr 01 j 07:08	1°♖03'48	20°37'07	asc. node	169 Feb 28 j 02:29	19°♔42'36	
retrograde	168 Apr 12 j 09:36	6°♖25'09			169 Mar 05 j 14:56	0°♕	
evening set	168 Apr 14 j 13:16	6°♖13'53		evening max el	169 Mar 14 j 21:08	12°♕44'31	19°29'59
desc. node	168 Apr 21 j 18:07	3°♖23'58		retrograde	169 Mar 24 j 06:45	17°♕15'38	
inferior conj	168 Apr 23 j 17:51	2°♖16'19	-0°34'19	evening set	169 Mar 26 j 10:09	17°♕02'36	
minimum elong	168 Apr 23 j 16:14	2°♖18'39	0°33'44	inferior conj	169 Apr 03 j 22:27	12°♕56'51	1°18'22
min. Earth dist.	168 Apr 24 j 23:07	1°♖34'13	0.55111 AU	minimum elong	169 Apr 04 j 01:33	12°♕51'50	1°17'21
	168 Apr 27 j 20:07	30°♖♕		min. Earth dist.	169 Apr 06 j 13:33	11°♕15'35	0.56049 AU
morning rise	168 May 02 j 18:14	28°♕04'38		desc. node	169 Apr 08 j 15:07	10°♕01'52	
direct	168 May 06 j 07:04	27°♕37'38		morning rise	169 Apr 12 j 14:18	8°♕13'50	
	168 May 14 j 06:40	0°♖		direct	169 Apr 17 j 02:43	7°♕27'45	
morning max el	168 May 19 j 13:51	4°♖04'00	23°08'34	morning max el	169 May 01 j 04:49	14°♕34'42	24°49'14
	168 Jun 06 j 09:41	0°♗			169 May 13 j 08:55	0°♖	
asc. node	168 Jun 09 j 04:42	5°♗31'12		morning set	169 May 27 j 02:04	25°♖26'10	
morning set	168 Jun 11 j 14:04	10°♗27'21		asc. node	169 May 27 j 01:46	25°♖24'35	
					169 May 29 j 05:28	0°♗	
superior conj	168 Jun 18 j 16:42	25°♗38'49	1°25'28				
minimum elong	168 Jun 18 j 14:15	25°♗25'45	1°25'09	superior conj	169 Jun 03 j 02:02	10°♗33'12	1°08'02

minimum elong	169 Jun 02 j 23:38	10° Π 20'09	1°07'38	max. Earth dist.	170 May 18 j 23:15	26° \mathcal{B} 26'03	1.32440 AU
max. Earth dist.	169 Jun 04 j 12:08	13° Π 38'06	1.32935 AU		170 May 20 j 14:21	0° Π	
evening rise	169 Jun 10 j 07:27	25° Π 53'07		evening rise	170 May 25 j 13:01	10° Π 35'00	
	169 Jun 12 j 08:28	0° \mathfrak{E}			170 Jun 04 j 14:50	0° \mathfrak{E}	
	169 Jun 29 j 19:36	0° Ω		desc. node	170 Jun 22 j 11:29	25° \mathfrak{E} 32'41	
desc. node	169 Jul 05 j 14:27	7° Ω 48'51		evening max el	170 Jun 25 j 03:19	28° \mathfrak{E} 14'41	26°54'58
evening max el	169 Jul 12 j 22:46	15° Ω 57'33	27°23'25		170 Jun 27 j 02:05	0° Ω	
retrograde	169 Jul 26 j 16:58	23° Ω 16'00		retrograde	170 Jul 09 j 02:11	5° Ω 31'00	
evening set	169 Aug 02 j 22:00	20° Ω 43'34		evening set	170 Jul 16 j 00:07	3° Ω 24'30	
min. Earth dist.	169 Aug 06 j 11:52	17° Ω 45'42	0.62789 AU	min. Earth dist.	170 Jul 19 j 17:15	0° Ω 44'28	0.60830 AU
inferior conj	169 Aug 09 j 08:13	15° Ω 00'48	-3°54'53		170 Jul 20 j 14:42	30° \mathcal{R} \mathfrak{E}	
minimum elong	169 Aug 09 j 13:02	14° Ω 49'10	3°53'45	inferior conj	170 Jul 22 j 23:12	27° \mathfrak{E} 59'06	-4°31'00
morning rise	169 Aug 16 j 05:19	9° Ω 52'15		minimum elong	170 Jul 23 j 02:48	27° \mathfrak{E} 51'24	4°30'32
direct	169 Aug 18 j 17:33	9° Ω 23'17		morning rise	170 Jul 30 j 07:18	23° \mathfrak{E} 11'52	
asc. node	169 Aug 23 j 00:57	10° Ω 50'23		direct	170 Aug 01 j 18:27	22° \mathfrak{E} 47'54	
morning max el	169 Aug 25 j 10:00	12° Ω 48'45	17°53'02	morning max el	170 Aug 08 j 23:04	26° \mathfrak{E} 20'30	18°04'14
	169 Sep 06 j 02:00	0° \mathfrak{M}		asc. node	170 Aug 09 j 22:00	27° \mathfrak{E} 19'11	
morning set	169 Sep 10 j 16:49	8° \mathfrak{M} 09'34			170 Aug 12 j 03:35	0° Ω	
				morning set	170 Aug 24 j 20:27	21° Ω 27'42	
superior conj	169 Sep 22 j 03:52	28° \mathfrak{M} 05'26	1°00'09		170 Aug 29 j 10:59	0° \mathfrak{M}	
minimum elong	169 Sep 22 j 08:46	28° \mathfrak{M} 26'06	0°59'32				
	169 Sep 23 j 07:09	0° \mathfrak{L}		superior conj	170 Sep 03 j 19:09	9° \mathfrak{M} 39'53	1°27'24
max. Earth dist.	169 Sep 29 j 00:01	9° \mathfrak{L} 22'57	1.43418 AU	minimum elong	170 Sep 03 j 23:20	9° \mathfrak{M} 58'25	1°27'00
desc. node	169 Oct 01 j 13:44	13° \mathfrak{L} 30'52		max. Earth dist.	170 Sep 11 j 09:43	22° \mathfrak{M} 46'45	1.41754 AU
evening rise	169 Oct 07 j 07:07	22° \mathfrak{L} 31'19			170 Sep 15 j 19:05	0° \mathfrak{L}	
	169 Oct 12 j 03:54	0° \mathfrak{M}		evening rise	170 Sep 17 j 01:38	2° \mathfrak{L} 02'59	
	169 Nov 02 j 05:01	0° \mathfrak{J}		desc. node	170 Sep 18 j 10:47	4° \mathfrak{L} 15'13	
evening max el	169 Nov 06 j 13:12	4° \mathfrak{J} 57'33	21°16'03		170 Oct 05 j 14:51	0° \mathfrak{M}	
retrograde	169 Nov 15 j 05:16	10° \mathfrak{J} 06'42		evening max el	170 Oct 20 j 06:41	18° \mathfrak{M} 27'04	22°32'48
evening set	169 Nov 19 j 07:54	8° \mathfrak{J} 31'45		retrograde	170 Oct 30 j 00:42	24° \mathfrak{M} 14'54	
asc. node	169 Nov 19 j 00:11	8° \mathfrak{J} 46'10		evening set	170 Nov 03 j 15:27	22° \mathfrak{M} 22'45	
inferior conj	169 Nov 24 j 16:40	2° \mathfrak{J} 17'54	1°51'46	asc. node	170 Nov 05 j 21:14	20° \mathfrak{M} 07'22	
minimum elong	169 Nov 24 j 14:23	2° \mathfrak{J} 25'44	1°50'56	inferior conj	170 Nov 08 j 23:45	16° \mathfrak{M} 02'48	1°03'15
min. Earth dist.	169 Nov 25 j 00:30	1° \mathfrak{J} 50'51	0.67464 AU	minimum elong	170 Nov 08 j 22:20	16° \mathfrak{M} 07'42	1°02'40
	169 Nov 26 j 09:12	30° \mathcal{R} \mathfrak{M}		min. Earth dist.	170 Nov 08 j 20:52	16° \mathfrak{M} 12'49	0.67681 AU
morning rise	169 Nov 29 j 20:43	26° \mathfrak{M} 04'34		morning rise	170 Nov 14 j 05:06	9° \mathfrak{M} 51'23	
direct	169 Dec 05 j 00:55	23° \mathfrak{M} 50'23		direct	170 Nov 18 j 18:23	7° \mathfrak{M} 59'36	
	169 Dec 15 j 10:49	0° \mathfrak{J}		morning max el	170 Nov 28 j 01:15	13° \mathfrak{M} 28'38	22°06'25
morning max el	169 Dec 15 j 13:16	0° \mathfrak{J} 06'12	23°33'17		170 Dec 11 j 05:01	0° \mathfrak{J}	
desc. node	169 Dec 28 j 12:57	16° \mathfrak{J} 07'41		desc. node	170 Dec 15 j 10:00	6° \mathfrak{J} 01'51	
	170 Jan 07 j 01:27	0° \mathfrak{Z}		morning set	170 Dec 30 j 23:42	29° \mathfrak{J} 55'50	
morning set	170 Jan 19 j 18:48	20° \mathfrak{Z} 24'57			170 Dec 31 j 00:45	0° \mathfrak{Z}	
max. Earth dist.	170 Jan 23 j 20:18	27° \mathfrak{Z} 25'05	1.38990 AU	max. Earth dist.	171 Jan 05 j 17:37	9° \mathfrak{Z} 22'27	1.41095 AU
	170 Jan 25 j 07:23	0° \approx					
				superior conj	171 Jan 13 j 12:01	22° \mathfrak{Z} 46'25	-2°01'52
superior conj	170 Jan 31 j 07:48	10° \approx 59'17	-1°52'37	minimum elong	171 Jan 13 j 12:52	22° \mathfrak{Z} 50'12	2°01'51
minimum elong	170 Jan 31 j 11:08	11° \approx 14'54	1°52'23		171 Jan 17 j 12:22	0° \approx	
evening rise	170 Feb 09 j 12:52	28° \approx 41'13		evening rise	171 Jan 23 j 21:13	11° \approx 46'42	
	170 Feb 10 j 05:07	0° \mathfrak{H}		asc. node	171 Feb 01 j 20:34	27° \approx 53'20	
asc. node	170 Feb 14 j 23:31	9° \mathfrak{H} 01'43			171 Feb 03 j 04:09	0° \mathfrak{H}	
evening max el	170 Feb 25 j 21:14	25° \mathfrak{H} 01'57	18°42'40	evening max el	171 Feb 09 j 04:36	7° \mathfrak{H} 48'26	18°15'26
retrograde	170 Mar 05 j 21:01	28° \mathfrak{H} 55'06		retrograde	171 Feb 16 j 05:45	11° \mathfrak{H} 19'42	
evening set	170 Mar 08 j 05:13	28° \mathfrak{H} 36'19		evening set	171 Feb 18 j 19:12	10° \mathfrak{H} 52'46	
inferior conj	170 Mar 15 j 22:28	24° \mathfrak{H} 13'24	2°41'39	inferior conj	171 Feb 25 j 19:26	6° \mathfrak{H} 09'07	3°29'56
minimum elong	170 Mar 16 j 02:45	24° \mathfrak{H} 05'21	2°40'36	minimum elong	171 Feb 25 j 22:12	6° \mathfrak{H} 03'03	3°29'33
min. Earth dist.	170 Mar 19 j 06:46	21° \mathfrak{H} 43'48	0.57707 AU	min. Earth dist.	171 Mar 01 j 04:44	3° \mathfrak{H} 12'44	0.59754 AU
morning rise	170 Mar 23 j 21:19	18° \mathfrak{H} 58'00		morning rise	171 Mar 04 j 23:01	0° \mathfrak{H} 30'09	
desc. node	170 Mar 26 j 12:10	18° \mathfrak{H} 02'11			171 Mar 05 j 20:55	30° \mathcal{R} \approx	
direct	170 Mar 29 j 12:30	17° \mathfrak{H} 39'30		direct	171 Mar 11 j 11:11	28° \approx 33'32	
morning max el	170 Apr 12 j 20:58	25° \mathfrak{H} 12'14	26°17'41	desc. node	171 Mar 13 j 09:12	28° \approx 43'20	
	170 Apr 17 j 07:42	0° \mathfrak{Y}			171 Mar 17 j 06:52	0° \mathfrak{H}	
	170 May 06 j 10:16	0° \mathfrak{B}		morning max el	171 Mar 25 j 18:14	6° \mathfrak{H} 19'32	27°19'44
morning set	170 May 11 j 13:14	10° \mathfrak{B} 21'57			171 Apr 12 j 11:12	0° \mathfrak{Y}	
asc. node	170 May 13 j 22:48	15° \mathfrak{B} 28'27		morning set	171 Apr 25 j 21:55	25° \mathfrak{Y} 08'41	
					171 Apr 28 j 05:11	0° \mathfrak{B}	
superior conj	170 May 18 j 13:26	25° \mathfrak{B} 32'14	0°47'04	asc. node	171 Apr 30 j 19:52	5° \mathfrak{B} 38'16	
minimum elong	170 May 18 j 11:32	25° \mathfrak{B} 21'49	0°46'41	max. Earth dist.	171 May 02 j 11:55	9° \mathfrak{B} 17'16	1.32319 AU

superior conj	171 May 03 j 01:10	10°♄29'56	0°23'20	superior conj	172 Apr 16 j 11:29	25°♄19'20	-0°02'25
minimum elong	171 May 03 j 00:08	10°♄24'17	0°23'07	minimum elong	172 Apr 16 j 11:36	25°♄19'58	0°02'22
evening rise	171 May 09 j 22:36	25°♄27'08		behind sun begin	172 Apr 16 j 06:31	24°♄52'21	
	171 May 12 j 03:06	0°♄		behind sun end	172 Apr 16 j 16:40	25°♄47'35	
	171 May 29 j 15:14	0°♄		asc. node	172 Apr 16 j 16:57	25°♄49'08	
evening max el	171 Jun 07 j 01:20	9°♄47'01	25°54'42		172 Apr 18 j 14:57	0°♄	
desc. node	171 Jun 09 j 08:30	11°♄49'59		evening rise	172 Apr 23 j 10:08	10°♄21'28	
retrograde	171 Jun 21 j 02:30	16°♄59'02			172 May 03 j 12:54	0°♄	
evening set	171 Jun 27 j 04:41	15°♄29'39		evening max el	172 May 18 j 17:24	20°♄39'12	24°30'15
min. Earth dist.	171 Jul 01 j 13:57	12°♄50'08	0.58773 AU	desc. node	172 May 26 j 05:30	26°♄07'15	
inferior conj	171 Jul 04 j 21:07	10°♄24'19	-4°46'27	retrograde	172 Jun 01 j 15:25	27°♄40'54	
minimum elong	171 Jul 04 j 21:23	10°♄23'49	4°46'28	evening set	172 Jun 06 j 10:16	26°♄49'30	
morning rise	171 Jul 12 j 16:27	5°♄59'21		min. Earth dist.	172 Jun 12 j 04:43	23°♄54'07	0.56891 AU
direct	171 Jul 15 j 04:40	5°♄38'34		inferior conj	172 Jun 14 j 23:11	22°♄07'44	-4°28'51
morning max el	171 Jul 23 j 06:25	9°♄29'00	18°35'27	minimum elong	172 Jun 14 j 18:41	22°♄15'00	4°28'16
asc. node	171 Jul 27 j 19:04	14°♄50'32		morning rise	172 Jun 23 j 05:52	18°♄02'52	
	171 Aug 05 j 17:13	0°♄		direct	172 Jun 25 j 20:33	17°♄44'07	
morning set	171 Aug 08 j 12:18	5°♄21'44		morning max el	172 Jul 05 j 05:06	22°♄05'03	19°27'43
					172 Jul 11 j 15:48	0°♄	
superior conj	171 Aug 17 j 08:36	22°♄20'08	1°42'21	asc. node	172 Jul 13 j 16:08	3°♄10'41	
minimum elong	171 Aug 17 j 10:44	22°♄30'07	1°42'15	morning set	172 Jul 22 j 12:44	19°♄42'16	
	171 Aug 21 j 12:42	0°♄			172 Jul 27 j 15:48	0°♄	
max. Earth dist.	171 Aug 24 j 14:27	5°♄27'38	1.39793 AU	superior conj	172 Jul 30 j 14:36	5°♄50'49	1°47'01
evening rise	171 Aug 28 j 19:02	12°♄39'03		minimum elong	172 Jul 30 j 14:42	5°♄51'21	1°47'01
desc. node	171 Sep 05 j 07:50	24°♄53'13		max. Earth dist.	172 Aug 05 j 17:58	17°♄33'21	1.37786 AU
	171 Sep 08 j 15:11	0°♄		evening rise	172 Aug 09 j 12:55	24°♄24'54	
	171 Sep 30 j 22:10	0°♄			172 Aug 12 j 17:56	0°♄	
evening max el	171 Oct 02 j 20:15	1°♄59'49	23°53'01	desc. node	172 Aug 22 j 04:51	15°♄20'27	
retrograde	171 Oct 13 j 16:47	8°♄23'08			172 Sep 01 j 07:20	0°♄	
evening set	171 Oct 18 j 21:20	6°♄13'10		evening max el	172 Sep 14 j 08:05	15°♄36'28	25°09'52
min. Earth dist.	171 Oct 23 j 17:20	0°♄36'06	0.67581 AU	retrograde	172 Sep 26 j 04:39	22°♄27'55	
asc. node	171 Oct 23 j 18:17	0°♄32'54		evening set	172 Oct 01 j 23:52	20°♄01'10	
inferior conj	171 Oct 24 j 06:36	29°♄51'03	0°10'38	min. Earth dist.	172 Oct 06 j 11:30	14°♄59'02	0.67156 AU
minimum elong	171 Oct 24 j 06:20	29°♄51'55	0°10'30	inferior conj	172 Oct 07 j 11:27	13°♄40'48	-0°44'40
transit middle	171 Oct 24 j 06:20	29°♄51'55	0°10'30	minimum elong	172 Oct 07 j 12:34	13°♄37'08	0°44'12
transit begin	171 Oct 24 j 04:15	29°♄58'59		asc. node	172 Oct 09 j 15:19	10°♄56'59	
transit end	171 Oct 24 j 08:25	29°♄44'52		morning rise	172 Oct 13 j 01:22	7°♄41'12	
	171 Oct 24 j 03:58	30°♄		direct	172 Oct 16 j 13:06	6°♄30'52	
morning rise	171 Oct 29 j 15:17	23°♄44'08		morning max el	172 Oct 23 j 21:45	10°♄42'23	19°40'27
direct	171 Nov 02 j 14:54	22°♄14'16			172 Nov 07 j 05:38	0°♄	
morning max el	171 Nov 10 j 19:35	26°♄59'59	20°47'11	morning set	172 Nov 18 j 00:29	16°♄30'40	
	171 Nov 13 j 13:12	0°♄		desc. node	172 Nov 18 j 04:07	16°♄44'44	
desc. node	171 Dec 02 j 07:03	26°♄16'00			172 Nov 26 j 16:09	0°♄	
	171 Dec 04 j 18:05	0°♄		max. Earth dist.	172 Nov 30 j 11:14	5°♄59'44	1.44305 AU
morning set	171 Dec 10 j 03:06	8°♄17'10		superior conj	172 Dec 04 j 17:54	12°♄50'00	-1°35'44
max. Earth dist.	171 Dec 18 j 22:30	22°♄16'33	1.42954 AU	minimum elong	172 Dec 04 j 09:58	12°♄18'07	1°35'03
	171 Dec 23 j 15:23	0°♄			172 Dec 15 j 04:54	0°♄	
superior conj	171 Dec 25 j 16:21	3°♄24'43	-1°57'37	evening rise	172 Dec 18 j 12:51	5°♄36'00	
minimum elong	171 Dec 25 j 12:39	3°♄09'10	1°57'28		173 Jan 02 j 16:10	0°♄	
evening rise	172 Jan 06 j 14:37	24°♄07'10		asc. node	173 Jan 05 j 14:38	3°♄35'34	
	172 Jan 09 j 22:08	0°♄		evening max el	173 Jan 06 j 04:31	4°♄11'54	18°19'06
asc. node	172 Jan 19 j 17:37	16°♄08'04		retrograde	173 Jan 12 j 16:22	7°♄42'55	
evening max el	172 Jan 23 j 15:59	20°♄53'57	18°07'46	evening set	173 Jan 15 j 15:07	6°♄56'22	
retrograde	172 Jan 30 j 05:39	24°♄18'37		inferior conj	173 Jan 21 j 15:48	1°♄31'43	3°45'34
evening set	172 Feb 01 j 23:46	23°♄42'16		minimum elong	173 Jan 21 j 14:30	1°♄35'22	3°45'28
inferior conj	172 Feb 08 j 10:30	18°♄37'26	3°48'43		173 Jan 23 j 00:18	30°♄	
minimum elong	172 Feb 08 j 11:02	18°♄36'06	3°48'42	min. Earth dist.	173 Jan 24 j 00:38	28°♄52'33	0.63733 AU
min. Earth dist.	172 Feb 11 j 09:58	15°♄39'20	0.61847 AU	morning rise	173 Jan 27 j 13:15	25°♄28'30	
morning rise	172 Feb 14 j 21:02	12°♄43'32		direct	173 Feb 03 j 12:11	22°♄40'55	
direct	172 Feb 21 j 19:40	10°♄14'53		desc. node	173 Feb 14 j 03:17	27°♄40'39	
desc. node	172 Feb 28 j 06:13	12°♄06'34			173 Feb 16 j 16:35	0°♄	
morning max el	172 Mar 06 j 21:33	18°♄06'23	27°46'46	morning max el	173 Feb 17 j 05:32	0°♄31'53	27°36'53
	172 Mar 16 j 21:15	0°♄			173 Mar 10 j 22:09	0°♄	
	172 Apr 04 j 04:48	0°♄		morning set	173 Mar 23 j 23:16	23°♄44'04	
morning set	172 Apr 09 j 02:04	9°♄38'40			173 Mar 27 j 01:34	0°♄	
max. Earth dist.	172 Apr 14 j 22:21	21°♄57'53	1.32568 AU				

max. Earth dist.	173 Mar 29 j 02:31	4°♈14'40	1.33217 AU	morning set	174 Mar 07 j 10:19	7°♏15'13	
				max. Earth dist.	174 Mar 11 j 20:41	15°♏58'13	1.34302 AU
superior conj	173 Mar 31 j 18:37	9°♈54'40	-0°29'15				
minimum elong	173 Mar 31 j 20:02	10°♈02'13	0°28'57	superior conj	174 Mar 15 j 20:32	24°♏09'47	-0°56'05
asc. node	173 Apr 03 j 13:58	15°♈56'36		minimum elong	174 Mar 15 j 23:13	24°♏23'48	0°55'35
evening rise	173 Apr 07 j 21:46	25°♈11'29			174 Mar 18 j 15:16	0°♈	
	173 Apr 10 j 05:19	0°♏		asc. node	174 Mar 21 j 10:59	5°♈57'12	
	173 Apr 29 j 03:22	0°♐		evening rise	174 Mar 23 j 07:42	9°♈51'13	
evening max el	173 Apr 30 j 08:09	1°♐12'17	22°55'05		174 Apr 02 j 23:51	0°♏	
desc. node	173 May 13 j 02:30	7°♐48'33		evening max el	174 Apr 12 j 04:57	11°♏57'48	21°23'48
retrograde	173 May 13 j 15:49	7°♐49'15		retrograde	174 Apr 24 j 06:47	17°♏50'31	
evening set	173 May 17 j 00:22	7°♐24'33		evening set	174 Apr 26 j 15:48	17°♏37'37	
min. Earth dist.	173 May 24 j 17:08	4°♐00'21	0.55522 AU	desc. node	174 Apr 29 j 23:31	16°♏40'07	
inferior conj	173 May 26 j 06:00	3°♐07'11	-3°26'55	inferior conj	174 May 06 j 01:09	13°♏37'13	-1°43'24
minimum elong	173 May 25 j 22:40	3°♐17'47	3°25'00	minimum elong	174 May 05 j 20:21	13°♏43'58	1°41'45
	173 Jun 01 j 09:36	30°♏♏		min. Earth dist.	174 May 06 j 05:58	13°♏30'26	0.54974 AU
morning rise	173 Jun 03 j 23:26	29°♏13'39		morning rise	174 May 15 j 01:23	9°♏37'29	
direct	173 Jun 06 j 17:49	28°♏55'37		direct	174 May 18 j 04:22	9°♏16'14	
	173 Jun 11 j 19:18	0°♐		morning max el	174 May 30 j 18:13	15°♏14'09	22°11'22
morning max el	173 Jun 17 j 17:03	4°♐00'37	20°40'44		174 Jun 11 j 02:09	0°♐	
asc. node	173 Jun 30 j 13:12	22°♐07'43		asc. node	174 Jun 17 j 10:15	11°♐32'29	
	173 Jul 04 j 15:22	0°♑		morning set	174 Jun 21 j 04:49	19°♐12'36	
morning set	173 Jul 06 j 18:56	4°♑21'14			174 Jun 26 j 07:15	0°♑	
superior conj	173 Jul 14 j 08:23	19°♑57'51	1°43'30	superior conj	174 Jun 28 j 10:21	4°♑30'26	1°33'34
minimum elong	173 Jul 14 j 07:00	19°♑50'48	1°43'26	minimum elong	174 Jun 28 j 08:07	4°♑18'41	1°33'21
max. Earth dist.	173 Jul 19 j 01:27	29°♑23'14	1.35965 AU	max. Earth dist.	174 Jul 01 j 17:24	11°♑21'53	1.34480 AU
	173 Jul 19 j 09:00	0°♒		evening rise	174 Jul 06 j 10:09	20°♑45'26	
evening rise	173 Jul 23 j 03:33	7°♒11'10			174 Jul 11 j 08:10	0°♒	
	173 Aug 05 j 11:22	0°♓		desc. node	174 Jul 26 j 22:52	25°♒17'06	
desc. node	173 Aug 09 j 01:52	5°♓30'53			174 Jul 30 j 08:53	0°♓	
evening max el	173 Aug 27 j 19:39	29°♓12'59	26°15'48	evening max el	174 Aug 10 j 07:31	12°♓43'06	27°03'07
	173 Aug 28 j 15:25	0°♈		retrograde	174 Aug 23 j 13:35	20°♓01'43	
retrograde	173 Sep 09 j 11:41	6°♈23'00		evening set	174 Aug 30 j 10:43	17°♓16'06	
evening set	173 Sep 15 j 21:06	3°♈43'11		min. Earth dist.	174 Sep 03 j 07:31	13°♓27'36	0.65276 AU
	173 Sep 19 j 10:57	30°♏♓		inferior conj	174 Sep 05 j 07:31	11°♓10'49	-2°36'36
min. Earth dist.	173 Sep 20 j 00:58	29°♓17'46	0.66394 AU	minimum elong	174 Sep 05 j 11:26	10°♓59'38	2°35'11
inferior conj	173 Sep 21 j 12:26	27°♓28'27	-1°41'05	morning rise	174 Sep 11 j 12:52	5°♓34'36	
minimum elong	173 Sep 21 j 15:01	27°♓20'29	1°40'02	asc. node	174 Sep 13 j 09:26	4°♓57'29	
asc. node	173 Sep 26 j 12:22	22°♓13'36		direct	174 Sep 14 j 07:28	4°♓52'53	
morning rise	173 Sep 27 j 09:19	21°♓39'02		morning max el	174 Sep 20 j 20:31	8°♓25'30	18°13'10
direct	173 Sep 30 j 11:17	20°♓44'54			174 Oct 05 j 15:13	0°♈	
morning max el	173 Oct 07 j 06:46	24°♓32'22	18°48'39	morning set	174 Oct 09 j 11:03	6°♈18'23	
	173 Oct 11 j 20:10	0°♈		desc. node	174 Oct 22 j 22:09	28°♈06'51	
morning set	173 Oct 28 j 15:32	25°♈42'08					
	173 Oct 31 j 08:47	0°♐		superior conj	174 Oct 24 j 00:53	29°♈52'54	-0°07'22
desc. node	173 Nov 05 j 01:08	7°♐22'49		minimum elong	174 Oct 23 j 23:56	29°♈49'09	0°07'14
max. Earth dist.	173 Nov 13 j 04:28	20°♐10'26	1.44982 AU	behind sun begin	174 Oct 23 j 14:00	29°♈09'45	
				behind sun end	174 Oct 24 j 09:52	0°♐28'31	
superior conj	173 Nov 13 j 22:27	21°♐21'08	-0°56'15		174 Oct 24 j 02:40	0°♐	
minimum elong	173 Nov 13 j 15:29	20°♐53'45	0°55'24	max. Earth dist.	174 Oct 26 j 22:59	4°♐29'51	1.44926 AU
	173 Nov 19 j 10:00	0°♏		evening rise	174 Nov 09 j 12:07	25°♐40'25	
evening rise	173 Nov 29 j 12:05	16°♏06'20			174 Nov 12 j 06:52	0°♏	
	173 Dec 08 j 03:22	0°♑		greatest brilliancy	174 Nov 21 j 16:01	14°♏27'24	-0.7m
evening max el	173 Dec 20 j 15:35	17°♑36'17	18°48'38		174 Dec 02 j 23:22	0°♑	
asc. node	173 Dec 23 j 11:39	20°♑02'19		evening max el	174 Dec 03 j 23:06	1°♑03'45	19°34'58
retrograde	173 Dec 27 j 09:46	21°♑24'35		asc. node	174 Dec 10 j 08:41	5°♑13'25	
evening set	173 Dec 30 j 14:03	20°♑26'45		retrograde	174 Dec 11 j 06:34	5°♑18'05	
inferior conj	174 Jan 05 j 07:35	14°♑44'40	3°26'39	evening set	174 Dec 14 j 17:58	4°♑07'24	
minimum elong	174 Jan 05 j 05:11	14°♑52'01	3°26'14		174 Dec 18 j 20:39	30°♏♏	
min. Earth dist.	174 Jan 07 j 01:05	12°♑37'25	0.65270 AU	inferior conj	174 Dec 20 j 06:39	28°♏10'41	2°56'16
morning rise	174 Jan 10 j 19:58	8°♑35'41		minimum elong	174 Dec 20 j 03:52	28°♏19'47	2°55'32
direct	174 Jan 17 j 11:37	5°♑43'44		min. Earth dist.	174 Dec 21 j 09:56	26°♏41'30	0.66420 AU
morning max el	174 Jan 30 j 15:20	13°♑25'09	26°54'12	morning rise	174 Dec 25 j 13:32	21°♏58'26	
desc. node	174 Feb 01 j 00:19	14°♑50'15		direct	174 Dec 31 j 17:10	19°♏14'45	
	174 Feb 13 j 01:53	0°♒		morning max el	175 Jan 13 j 00:33	26°♏33'04	25°46'32
	174 Mar 03 j 13:20	0°♏			175 Jan 16 j 05:40	0°♑	

desc. node	175 Jan 18 j 21:21	3°♄07'33		direct	175 Dec 15 j 03:56	3°♄06'12	
	175 Feb 06 j 16:16	0°♄		morning max el	175 Dec 26 j 08:50	9°♄47'11	24°23'44
morning set	175 Feb 18 j 06:49	19°♄58'30		desc. node	176 Jan 05 j 18:23	22°♄12'52	
max. Earth dist.	175 Feb 22 j 02:47	27°♄09'18	1.35846 AU		176 Jan 11 j 09:05	0°♄	
	175 Feb 23 j 14:13	0°♄			176 Jan 30 j 08:33	0°♄	
				morning set	176 Jan 31 j 07:07	1°♄38'01	
superior conj	175 Feb 27 j 14:37	7°♄56'43	-1°21'23	max. Earth dist.	176 Feb 03 j 23:45	8°♄11'49	1.37782 AU
minimum elong	175 Feb 27 j 18:17	8°♄15'09	1°20'51				
evening rise	175 Mar 07 j 13:53	24°♄13'42		superior conj	176 Feb 10 j 21:36	21°♄06'37	-1°43'00
asc. node	175 Mar 08 j 08:01	25°♄45'51		minimum elong	176 Feb 11 j 01:27	21°♄25'09	1°42'37
	175 Mar 10 j 10:47	0°♄			176 Feb 15 j 10:43	0°♄	
evening max el	175 Mar 25 j 12:33	23°♄16'41	20°06'21	evening rise	176 Feb 19 j 13:58	8°♄12'28	
retrograde	175 Apr 04 j 21:31	28°♄15'36		asc. node	176 Feb 23 j 05:04	15°♄17'36	
evening set	175 Apr 06 j 23:47	28°♄04'19			176 Mar 02 j 21:11	0°♄	
inferior conj	175 Apr 15 j 22:20	24°♄05'19	0°15'53	evening max el	176 Mar 07 j 07:16	5°♄14'10	19°07'26
minimum elong	175 Apr 15 j 23:02	24°♄04'14	0°15'38	retrograde	176 Mar 16 j 00:55	9°♄26'40	
transit middle	175 Apr 15 j 23:02	24°♄04'14	0°15'38	evening set	176 Mar 18 j 06:20	9°♄11'28	
transit begin	175 Apr 15 j 22:17	24°♄05'22		inferior conj	176 Mar 26 j 10:31	4°♄59'19	1°58'00
transit end	175 Apr 15 j 23:48	24°♄03'06		minimum elong	176 Mar 26 j 14:34	4°♄52'21	1°56'47
desc. node	175 Apr 16 j 20:34	23°♄31'54		min. Earth dist.	176 Mar 29 j 11:15	2°♄55'27	0.56690 AU
min. Earth dist.	175 Apr 17 j 19:54	22°♄57'06	0.55397 AU	desc. node	176 Apr 02 j 17:35	0°♄29'43	
morning rise	175 Apr 24 j 20:20	19°♄40'56		morning rise	176 Apr 03 j 19:51	0°♄02'09	
direct	175 Apr 28 j 18:14	19°♄07'22			176 Apr 03 j 22:07	30°♄	
morning max el	175 May 12 j 11:16	25°♄53'42	23°51'51	direct	176 Apr 08 j 20:11	29°♄03'23	
	175 May 16 j 08:18	0°♄			176 Apr 13 j 18:23	0°♄	
	175 Jun 03 j 16:23	0°♄		morning max el	176 Apr 23 j 01:47	6°♄22'42	25°29'12
asc. node	175 Jun 04 j 07:18	1°♄16'44			176 May 10 j 07:37	0°♄	
morning set	175 Jun 05 j 16:28	4°♄09'41		morning set	176 May 20 j 04:18	19°♄07'16	
				asc. node	176 May 21 j 04:22	21°♄14'45	
					176 May 25 j 05:25	0°♄	
superior conj	175 Jun 12 j 17:38	19°♄18'33	1°18'34	superior conj	176 May 27 j 04:03	4°♄15'05	0°59'31
minimum elong	175 Jun 12 j 15:09	19°♄05'08	1°18'12	minimum elong	176 May 27 j 01:49	4°♄02'51	0°59'07
max. Earth dist.	175 Jun 14 j 18:45	23°♄41'54	1.33387 AU	max. Earth dist.	176 May 28 j 03:23	6°♄22'28	1.32683 AU
	175 Jun 17 j 18:41	0°♄		evening rise	176 Jun 03 j 06:30	19°♄26'16	
evening rise	175 Jun 20 j 04:17	4°♄54'01			176 Jun 08 j 14:11	0°♄	
	175 Jul 04 j 00:17	0°♄			176 Jun 27 j 09:53	0°♄	
desc. node	175 Jul 13 j 19:54	14°♄28'10		desc. node	176 Jun 29 j 16:56	2°♄49'19	
evening max el	175 Jul 23 j 18:34	25°♄55'23	27°24'53	evening max el	176 Jul 05 j 02:26	8°♄36'24	27°15'29
	175 Jul 28 j 16:47	0°♄		retrograde	176 Jul 18 j 22:47	15°♄53'17	
retrograde	175 Aug 06 j 09:35	3°♄14'56		evening set	176 Jul 26 j 02:08	13°♄30'38	
evening set	175 Aug 13 j 13:41	0°♄34'15		min. Earth dist.	176 Jul 29 j 16:26	10°♄41'57	0.61980 AU
	175 Aug 14 j 07:18	30°♄		inferior conj	176 Aug 01 j 17:20	7°♄55'04	-4°12'06
min. Earth dist.	175 Aug 17 j 05:10	27°♄19'43	0.63790 AU	minimum elong	176 Aug 01 j 21:51	7°♄44'39	4°11'14
inferior conj	175 Aug 19 j 18:11	24°♄42'14	-3°28'23	morning rise	176 Aug 08 j 19:00	2°♄54'58	
minimum elong	175 Aug 19 j 22:56	24°♄29'55	3°27'01	direct	176 Aug 11 j 06:34	2°♄28'17	
morning rise	175 Aug 26 j 09:13	19°♄22'23		asc. node	176 Aug 17 j 03:34	5°♄01'44	
direct	175 Aug 28 j 23:00	18°♄49'37		morning max el	176 Aug 18 j 03:06	5°♄55'42	17°55'25
asc. node	175 Aug 31 j 06:29	19°♄16'25			176 Sep 02 j 13:37	0°♄	
morning max el	175 Sep 04 j 12:15	22°♄15'35	17°55'08	morning set	176 Sep 03 j 03:42	1°♄03'49	
	175 Sep 10 j 12:05	0°♄					
morning set	175 Sep 21 j 09:10	18°♄11'49		superior conj	176 Sep 13 j 21:56	20°♄11'15	1°13'18
	175 Sep 28 j 06:45	0°♄		minimum elong	176 Sep 14 j 02:49	20°♄32'16	1°12'45
					176 Sep 19 j 17:23	0°♄	
superior conj	175 Oct 03 j 21:49	9°♄21'55	0°38'32	max. Earth dist.	176 Sep 21 j 05:41	2°♄29'27	1.42766 AU
minimum elong	175 Oct 04 j 01:45	9°♄38'03	0°38'00	desc. node	176 Sep 25 j 16:14	9°♄39'58	
max. Earth dist.	175 Oct 09 j 16:13	18°♄41'53	1.44154 AU	evening rise	176 Sep 28 j 06:59	13°♄48'04	
desc. node	175 Oct 09 j 19:12	18°♄53'47			176 Oct 08 j 21:42	0°♄	
	175 Oct 16 j 20:27	0°♄		evening max el	176 Oct 29 j 22:15	28°♄01'59	21°47'54
evening rise	175 Oct 19 j 20:57	4°♄40'33			176 Nov 01 j 00:01	0°♄	
	175 Nov 05 j 18:14	0°♄		retrograde	176 Nov 08 j 00:50	3°♄26'56	
evening max el	175 Nov 17 j 01:34	14°♄32'42	20°35'47	evening set	176 Nov 12 j 08:29	1°♄44'45	
retrograde	175 Nov 25 j 04:13	19°♄20'02		asc. node	176 Nov 13 j 02:47	1°♄05'06	
asc. node	175 Nov 27 j 05:43	18°♄55'54			176 Nov 14 j 04:18	30°♄	
evening set	175 Nov 29 j 00:44	17°♄54'31		inferior conj	176 Nov 17 j 16:54	25°♄28'03	1°31'47
inferior conj	175 Dec 04 j 10:28	11°♄46'12	2°17'18	minimum elong	176 Nov 17 j 14:57	25°♄34'48	1°31'01
minimum elong	175 Dec 04 j 07:53	11°♄55'01	2°16'25	min. Earth dist.	176 Nov 17 j 20:05	25°♄17'04	0.67604 AU
min. Earth dist.	175 Dec 05 j 01:03	10°♄56'38	0.67191 AU				
morning rise	175 Dec 09 j 14:50	5°♄32'48					

morning rise	176 Nov 22 j 21:16	19°♍15'29		morning max el	177 Nov 20 j 09:03	6°♍32'42	21°31'28
direct	176 Nov 27 j 19:07	17°♍10'42			177 Dec 08 j 05:10	0°♌	
morning max el	176 Dec 07 j 18:30	23°♍05'51	22°55'48	desc. node	177 Dec 09 j 12:30	1°♌55'40	
	176 Dec 13 j 19:33	0°♌		morning set	177 Dec 21 j 21:45	20°♌54'46	
desc. node	176 Dec 22 j 15:26	11°♌51'59			177 Dec 27 j 13:13	0°♋	
	177 Jan 03 j 18:39	0°♋		max. Earth dist.	177 Dec 28 j 20:03	2°♋06'40	1.41940 AU
morning set	177 Jan 11 j 04:54	11°♋57'19		superior conj	178 Jan 05 j 07:41	14°♋46'31	-2°01'59
max. Earth dist.	177 Jan 15 j 19:20	19°♋43'10	1.39908 AU	minimum elong	178 Jan 05 j 06:48	14°♋42'42	2°01'58
	177 Jan 21 j 15:24	0°♊			178 Jan 13 j 20:55	0°♊	
superior conj	177 Jan 23 j 13:02	3°♊27'22	-1°57'54	evening rise	178 Jan 16 j 07:34	4°♊27'20	
minimum elong	177 Jan 23 j 15:35	3°♊39'03	1°57'46	asc. node	178 Jan 26 j 23:08	23°♊03'01	
evening rise	177 Feb 02 j 05:02	21°♊39'32			178 Feb 01 j 04:37	0°♑	
	177 Feb 06 j 15:12	0°♑		evening max el	178 Feb 01 j 20:08	0°♑39'43	18°09'41
asc. node	177 Feb 09 j 02:06	4°♑25'48		retrograde	178 Feb 08 j 15:16	4°♑06'48	
evening max el	177 Feb 18 j 10:47	17°♑44'30	18°28'33	evening set	178 Feb 11 j 06:38	3°♑36'03	
retrograde	177 Feb 25 j 23:22	21°♑26'23			178 Feb 16 j 14:59	30°♑	
evening set	177 Feb 28 j 09:58	21°♑04'13		inferior conj	178 Feb 18 j 00:40	28°♑43'07	3°41'03
inferior conj	177 Mar 07 j 19:32	16°♑32'16	3°06'15	minimum elong	178 Feb 18 j 02:29	28°♑38'53	3°40'53
minimum elong	177 Mar 07 j 23:22	16°♑24'32	3°05'28	min. Earth dist.	178 Feb 21 j 06:37	25°♑43'02	0.60656 AU
min. Earth dist.	177 Mar 11 j 05:50	13°♑48'33	0.58558 AU	morning rise	178 Feb 24 j 20:32	22°♑56'32	
morning rise	177 Mar 15 j 10:09	11°♑05'51		direct	178 Mar 03 j 14:15	20°♑45'14	
desc. node	177 Mar 20 j 14:37	9°♑33'21		desc. node	178 Mar 07 j 11:39	21°♑25'56	
direct	177 Mar 21 j 11:21	9°♑31'25		morning max el	178 Mar 17 j 19:53	28°♑34'41	27°35'53
morning max el	177 Apr 04 j 19:43	17°♑10'04	26°48'06		178 Mar 19 j 05:26	0°♑	
	177 Apr 15 j 09:58	0°♑			178 Apr 09 j 04:19	0°♑	
	177 May 02 j 16:12	0°♐		morning set	178 Apr 18 j 21:39	18°♑40'34	
morning set	177 May 04 j 14:39	3°♐59'54			178 Apr 24 j 05:31	0°♐	
asc. node	177 May 08 j 01:25	11°♐21'36		asc. node	178 Apr 24 j 22:27	1°♐32'14	
				max. Earth dist.	178 Apr 25 j 04:05	2°♐02'56	1.32373 AU
superior conj	177 May 11 j 15:47	19°♐13'58	0°37'17	superior conj	178 Apr 26 j 03:05	4°♐08'44	0°12'37
minimum elong	177 May 11 j 14:13	19°♐05'20	0°36'58	minimum elong	178 Apr 26 j 02:31	4°♐05'35	0°12'30
max. Earth dist.	177 May 11 j 15:51	19°♐14'17	1.32345 AU	behind sun begin	178 Apr 25 j 23:23	3°♐48'30	
	177 May 16 j 14:18	0°♏		behind sun end	178 Apr 26 j 05:38	4°♐22'41	
evening rise	177 May 18 j 14:03	4°♏13'22		evening rise	178 May 03 j 00:39	19°♐07'01	
	177 Jun 01 j 09:05	0°♏			178 May 08 j 09:06	0°♏	
desc. node	177 Jun 16 j 13:56	20°♏00'01			178 May 28 j 04:27	0°♏	
evening max el	177 Jun 17 j 04:24	20°♏35'00	26°32'58	evening max el	178 May 29 j 23:17	1°♏47'41	25°21'02
retrograde	177 Jul 01 j 04:09	27°♏49'15		desc. node	178 Jun 03 j 10:57	5°♏30'47	
evening set	177 Jul 07 j 19:34	25°♏57'28		retrograde	178 Jun 13 j 00:04	8°♏57'20	
min. Earth dist.	177 Jul 11 j 17:36	23°♏20'13	0.59953 AU	evening set	178 Jun 18 j 14:11	7°♏44'26	
inferior conj	177 Jul 15 j 01:31	20°♏40'41	-4°40'47	min. Earth dist.	178 Jun 23 j 11:09	5°♏00'09	0.57925 AU
minimum elong	177 Jul 15 j 03:58	20°♏35'44	4°40'36	inferior conj	178 Jun 26 j 15:09	2°♏48'34	-4°43'52
morning rise	177 Jul 22 j 14:21	16°♏02'59		minimum elong	178 Jun 26 j 13:26	2°♏51'33	4°43'47
direct	177 Jul 25 j 01:55	15°♏40'24			178 Jul 01 j 01:12	30°♏	
morning max el	177 Aug 01 j 14:07	19°♏18'48	18°15'05	morning rise	178 Jul 04 j 15:22	28°♏33'12	
asc. node	177 Aug 04 j 00:38	21°♏59'07		direct	178 Jul 07 j 04:27	28°♏13'30	
	177 Aug 09 j 11:35	0°♏			178 Jul 12 j 21:22	0°♏	
morning set	177 Aug 17 j 13:05	14°♏39'03		morning max el	178 Jul 15 j 18:10	2°♏14'59	18°55'12
	177 Aug 25 j 17:33	0°♎		asc. node	178 Jul 21 j 21:41	9°♏52'46	
superior conj	177 Aug 26 j 23:24	2°♎16'12	1°35'08	morning set	178 Aug 01 j 08:55	28°♏45'06	
minimum elong	177 Aug 27 j 02:46	2°♎31'30	1°34'53		178 Aug 02 j 00:09	0°♏	
max. Earth dist.	177 Sep 03 j 13:37	15°♎37'45	1.40940 AU	superior conj	178 Aug 09 j 20:32	15°♏19'56	1°45'28
evening rise	177 Sep 08 j 10:28	23°♎45'07		minimum elong	178 Aug 09 j 21:46	15°♏25'48	1°45'25
	177 Sep 12 j 07:39	0°♎		max. Earth dist.	178 Aug 16 j 16:51	28°♏00'28	1.38922 AU
desc. node	177 Sep 12 j 13:17	0°♎22'21			178 Aug 17 j 19:43	0°♎	
	177 Oct 02 j 20:28	0°♍			178 Aug 20 j 14:26	4°♎50'53	
evening max el	177 Oct 12 j 13:47	11°♍32'49	23°06'45	evening rise	178 Aug 30 j 10:19	20°♎56'15	
retrograde	177 Oct 22 j 19:00	17°♍36'16		desc. node	178 Sep 05 j 10:02	0°♎	
evening set	177 Oct 27 j 15:34	15°♍36'14			178 Sep 25 j 02:07	25°♎06'27	24°26'29
asc. node	177 Oct 30 j 23:49	11°♍57'43		evening max el	178 Oct 01 j 02:01	0°♍	
min. Earth dist.	177 Nov 01 j 16:42	9°♍40'18	0.67683 AU	retrograde	178 Oct 06 j 09:33	1°♍43'40	
inferior conj	177 Nov 02 j 00:06	9°♍14'50	0°41'22		178 Oct 11 j 03:23	30°♍	
minimum elong	177 Nov 01 j 23:08	9°♍18'07	0°40'57	evening set	178 Oct 11 j 20:15	29°♎26'09	
morning rise	177 Nov 07 j 06:39	3°♍05'14		min. Earth dist.	178 Oct 16 j 12:31	24°♎03'38	0.67436 AU
direct	177 Nov 11 j 13:53	1°♍23'10					

inferior conj	178 Oct 17 j 06:18	23°♊03'59	-0°12'35	retrograde	179 Sep 19 j 19:31	15°♊44'33	
minimum elong	178 Oct 17 j 06:36	23°♊02'58	0°12'28	evening set	179 Sep 25 j 20:46	13°♊11'49	
transit middle	178 Oct 17 j 06:36	23°♊02'58	0°12'28	min. Earth dist.	179 Sep 30 j 05:04	8°♊24'51	0.66867 AU
transit begin	178 Oct 17 j 04:51	23°♊08'52		inferior conj	179 Oct 01 j 09:44	6°♊53'09	-1°08'36
transit end	178 Oct 17 j 08:22	22°♊57'03		minimum elong	179 Oct 01 j 11:29	6°♊47'35	1°07'51
asc. node	178 Oct 17 j 20:52	22°♊15'20		asc. node	179 Oct 04 j 17:55	2°♊55'30	
morning rise	178 Oct 22 j 17:00	16°♊59'50		morning rise	179 Oct 07 j 02:24	0°♊57'15	
direct	178 Oct 26 j 11:12	15°♊38'51			179 Oct 09 j 09:36	30°♋00	
morning max el	178 Nov 03 j 06:45	20°♊09'15	20°17'05	direct	179 Oct 10 j 09:39	29°♋54'16	
	178 Nov 11 j 06:57	0°♋			179 Oct 11 j 10:02	0°♊	
desc. node	178 Nov 26 j 09:34	22°♋16'48		morning max el	179 Oct 17 j 11:56	3°♊54'43	19°16'25
morning set	178 Nov 30 j 19:30	29°♋04'09			179 Nov 05 j 00:45	0°♋	
	178 Dec 01 j 09:55	0°♋		morning set	179 Nov 09 j 21:53	7°♋35'08	
max. Earth dist.	178 Dec 11 j 04:01	15°♋22'10	1.43597 AU	desc. node	179 Nov 13 j 06:36	12°♋49'49	
				max. Earth dist.	179 Nov 23 j 18:34	29°♋17'37	1.44676 AU
					179 Nov 24 j 05:18	0°♋	
superior conj	178 Dec 17 j 00:41	24°♋53'49	-1°50'38	superior conj	179 Nov 26 j 15:49	3°♋51'48	-1°20'53
minimum elong	178 Dec 16 j 18:53	24°♋29'54	1°50'17	minimum elong	179 Nov 26 j 07:27	3°♋18'37	1°20'00
	178 Dec 20 j 02:26	0°♋		evening rise	179 Dec 11 j 06:07	27°♋31'25	
evening rise	178 Dec 29 j 17:24	16°♋27'28			179 Dec 12 j 18:02	0°♋	
	179 Jan 06 j 13:55	0°♋		evening max el	179 Dec 30 j 20:38	27°♋13'55	18°29'35
asc. node	179 Jan 13 j 20:09	10°♋59'50		asc. node	179 Dec 31 j 17:11	28°♋03'42	
evening max el	179 Jan 16 j 08:21	13°♋52'02	18°10'17		180 Jan 03 j 08:28	0°♋	
retrograde	179 Jan 22 j 20:20	17°♋18'07		retrograde	180 Jan 06 j 10:12	0°♋50'47	
evening set	179 Jan 25 j 16:14	16°♋37'43		evening set	180 Jan 09 j 11:10	29°♋59'37	
inferior conj	179 Jan 31 j 22:21	11°♋24'28	3°49'37		180 Jan 09 j 10:53	30°♋00	
minimum elong	179 Jan 31 j 22:01	11°♋25'20	3°49'37	inferior conj	180 Jan 15 j 08:31	24°♋27'34	3°39'09
min. Earth dist.	179 Feb 03 j 16:00	8°♋31'56	0.62684 AU	minimum elong	180 Jan 15 j 06:40	24°♋32'59	3°38'56
morning rise	179 Feb 07 j 02:47	5°♋25'51		min. Earth dist.	180 Jan 17 j 10:53	22°♋00'40	0.64436 AU
direct	179 Feb 14 j 02:38	2°♋47'00		morning rise	180 Jan 21 j 01:40	18°♋21'43	
desc. node	179 Feb 22 j 08:41	5°♋49'57		direct	180 Jan 27 j 22:26	15°♋30'16	
morning max el	179 Feb 28 j 01:36	10°♋40'06	27°46'52	desc. node	180 Feb 09 j 05:44	22°♋08'38	
	179 Mar 15 j 06:00	0°♋		morning max el	180 Feb 10 j 10:28	23°♋18'29	27°22'14
	179 Apr 01 j 10:47	0°♋			180 Feb 16 j 10:03	0°♋	
morning set	179 Apr 02 j 23:12	3°♋02'02			180 Mar 07 j 12:47	0°♋	
max. Earth dist.	179 Apr 08 j 12:12	14°♋34'55	1.32789 AU	morning set	180 Mar 16 j 16:30	16°♋54'24	
				max. Earth dist.	180 Mar 21 j 12:18	26°♋37'35	1.33627 AU
					180 Mar 23 j 03:12	0°♋	
superior conj	179 Apr 10 j 12:18	18°♋53'40	-0°13'42	superior conj	180 Mar 24 j 17:30	3°♋21'43	-0°40'42
minimum elong	179 Apr 10 j 12:57	18°♋57'11	0°13'34	minimum elong	180 Mar 24 j 19:28	3°♋32'08	0°40'18
behind sun begin	179 Apr 10 j 10:14	18°♋42'28		asc. node	180 Mar 28 j 16:30	11°♋48'03	
behind sun end	179 Apr 10 j 15:40	19°♋11'56		evening rise	180 Mar 31 j 23:35	18°♋47'21	
asc. node	179 Apr 11 j 19:29	21°♋42'39			180 Apr 06 j 13:04	0°♋	
	179 Apr 15 j 15:19	0°♋		evening max el	180 Apr 22 j 06:36	23°♋04'05	22°15'02
evening rise	179 Apr 17 j 12:27	4°♋00'44		retrograde	180 May 05 j 03:20	29°♋23'31	
	179 May 01 j 13:55	0°♋		desc. node	180 May 07 j 04:56	29°♋14'01	
evening max el	179 May 11 j 13:55	12°♋28'30	23°50'12	evening set	180 May 07 j 23:49	29°♋05'33	
desc. node	179 May 21 j 07:55	18°♋45'55		min. Earth dist.	180 May 16 j 13:21	25°♋25'14	0.55182 AU
retrograde	179 May 25 j 08:06	19°♋22'29		inferior conj	180 May 17 j 09:04	24°♋57'26	-2°47'02
evening set	179 May 29 j 11:35	18°♋44'32		minimum elong	180 May 17 j 02:08	25°♋07'13	2°44'56
min. Earth dist.	179 Jun 05 j 00:51	15°♋38'02	0.56222 AU	morning rise	180 May 26 j 06:07	21°♋03'21	
inferior conj	179 Jun 07 j 08:37	14°♋13'02	-4°08'22	direct	180 May 29 j 03:24	20°♋44'31	
minimum elong	179 Jun 07 j 02:24	14°♋22'34	4°07'12	morning max el	180 Jun 09 j 19:36	26°♋11'55	21°17'25
morning rise	179 Jun 15 j 20:02	10°♋14'25			180 Jun 13 j 09:31	0°♋	
direct	179 Jun 18 j 11:47	9°♋56'21		asc. node	180 Jun 24 j 15:47	17°♋39'47	
morning max el	179 Jun 28 j 12:31	14°♋35'01	19°56'19	morning set	180 Jun 29 j 20:04	27°♋58'53	
asc. node	179 Jul 08 j 18:44	28°♋29'54			180 Jun 30 j 19:26	0°♋	
	179 Jul 09 j 15:14	0°♋		superior conj	180 Jul 07 j 05:40	13°♋26'14	1°39'59
morning set	179 Jul 16 j 12:03	13°♋13'54		minimum elong	180 Jul 07 j 03:51	13°♋16'49	1°39'51
				max. Earth dist.	180 Jul 11 j 07:46	21°♋45'51	1.35291 AU
superior conj	179 Jul 24 j 08:02	29°♋07'22	1°46'25	evening rise	180 Jul 15 j 15:46	0°♋12'33	
minimum elong	179 Jul 24 j 07:26	29°♋04'22	1°46'24		180 Jul 15 j 13:07	0°♋	
	179 Jul 24 j 18:36	0°♋		desc. node	180 Aug 02 j 07:10	0°♋	
max. Earth dist.	179 Jul 29 j 20:50	9°♋53'59	1.36976 AU		180 Aug 03 j 04:18	1°♋18'02	
evening rise	179 Aug 02 j 17:44	17°♋03'59					
	179 Aug 10 j 04:54	0°♋					
desc. node	179 Aug 17 j 07:19	11°♋16'50					
	179 Aug 30 j 18:46	0°♋					
evening max el	179 Sep 07 j 13:41	8°♋43'28	25°39'48				

evening max el	180 Aug 20 j 01:41	22° \mathbb{M} 19'26	26°38'47		181 Jul 28 j 04:40	0° \mathbb{M}	
retrograde	180 Sep 02 j 00:19	29° \mathbb{M} 33'34		evening max el	181 Aug 02 j 13:28	5° \mathbb{M} 43'38	27°15'54
evening set	180 Sep 08 j 15:04	26° \mathbb{M} 50'33		retrograde	181 Aug 15 j 23:30	13° \mathbb{M} 02'40	
min. Earth dist.	180 Sep 12 j 15:57	22° \mathbb{M} 40'44	0.65958 AU	evening set	181 Aug 23 j 00:32	10° \mathbb{M} 17'39	
inferior conj	180 Sep 14 j 08:31	20° \mathbb{M} 39'31	-2°04'54	min. Earth dist.	181 Aug 26 j 18:47	6° \mathbb{M} 44'26	0.64688 AU
minimum elong	180 Sep 14 j 11:42	20° \mathbb{M} 30'00	2°03'39	inferior conj	181 Aug 29 j 00:20	4° \mathbb{M} 17'56	-2°59'14
morning rise	180 Sep 20 j 08:47	14° \mathbb{M} 55'06		minimum elong	181 Aug 29 j 04:42	4° \mathbb{M} 05'57	2°57'47
asc. node	180 Sep 20 j 14:59	14° \mathbb{M} 47'00			181 Sep 02 j 10:52	30° \mathbb{R} \mathbb{L}	
direct	180 Sep 23 j 07:24	14° \mathbb{M} 06'32		morning rise	181 Sep 04 j 09:40	28° \mathbb{L} 48'22	
morning max el	180 Sep 29 j 23:13	17° \mathbb{M} 46'32	18°31'30	direct	181 Sep 07 j 02:01	28° \mathbb{L} 10'44	
	180 Oct 09 j 02:39	0° \mathbb{L}		asc. node	181 Sep 07 j 12:03	28° \mathbb{L} 11'40	
morning set	180 Oct 20 j 00:47	17° \mathbb{L} 22'48			181 Sep 11 j 17:17	0° \mathbb{M}	
	180 Oct 27 j 22:22	0° \mathbb{M}		morning max el	181 Sep 13 j 14:10	1° \mathbb{M} 39'10	18°03'24
desc. node	180 Oct 30 j 03:38	3° \mathbb{M} 31'03		morning set	181 Oct 01 j 08:15	28° \mathbb{M} 34'01	
					181 Oct 02 j 04:44	0° \mathbb{L}	
superior conj	180 Nov 04 j 16:39	12° \mathbb{M} 15'28	-0°35'56	superior conj	181 Oct 15 j 00:53	21° \mathbb{L} 05'42	0°13'09
minimum elong	180 Nov 04 j 11:57	11° \mathbb{M} 56'59	0°35'19	minimum elong	181 Oct 15 j 02:28	21° \mathbb{L} 12'01	0°12'56
max. Earth dist.	180 Nov 05 j 13:07	13° \mathbb{M} 35'55	1.45050 AU	behind sun begin	181 Oct 14 j 20:01	20° \mathbb{L} 46'09	
	180 Nov 15 j 23:26	0° \mathbb{L}		behind sun end	181 Oct 15 j 08:54	21° \mathbb{L} 37'51	
evening rise	180 Nov 20 j 19:09	7° \mathbb{L} 37'04		desc. node	181 Oct 17 j 00:39	24° \mathbb{L} 16'37	
greatest brilliancy	180 Nov 30 j 00:44	22° \mathbb{L} 12'36	-0.8m	max. Earth dist.	181 Oct 19 j 07:58	27° \mathbb{L} 56'13	1.44681 AU
	180 Dec 05 j 02:40	0° \mathbb{L}			181 Oct 20 j 15:19	0° \mathbb{M}	
evening max el	180 Dec 13 j 06:31	10° \mathbb{L} 40'37	19°06'26	evening rise	181 Oct 31 j 11:11	16° \mathbb{M} 52'50	
asc. node	180 Dec 17 j 14:14	14° \mathbb{L} 00'40			181 Nov 09 j 00:24	0° \mathbb{L}	
retrograde	180 Dec 20 j 05:22	14° \mathbb{L} 38'35		greatest brilliancy	181 Nov 14 j 05:57	7° \mathbb{L} 52'25	-0.6m
evening set	180 Dec 23 j 12:34	13° \mathbb{L} 35'19		evening max el	181 Nov 26 j 11:59	24° \mathbb{L} 08'27	19°59'12
inferior conj	180 Dec 29 j 03:45	7° \mathbb{L} 46'40	3°14'58	retrograde	181 Dec 04 j 02:51	28° \mathbb{L} 36'08	
minimum elong	180 Dec 29 j 01:08	7° \mathbb{L} 54'59	3°14'24	asc. node	181 Dec 04 j 11:18	28° \mathbb{L} 35'26	
min. Earth dist.	180 Dec 30 j 14:58	5° \mathbb{L} 55'27	0.65812 AU	evening set	181 Dec 07 j 17:57	27° \mathbb{L} 19'11	
morning rise	181 Jan 03 j 13:26	1° \mathbb{L} 36'19		inferior conj	181 Dec 13 j 05:08	21° \mathbb{L} 16'53	2°40'40
	181 Jan 05 j 17:40	30° \mathbb{R} \mathbb{L}		minimum elong	181 Dec 13 j 02:22	21° \mathbb{L} 26'06	2°39'50
direct	181 Jan 10 j 00:30	28° \mathbb{L} 46'42		min. Earth dist.	181 Dec 14 j 02:43	20° \mathbb{L} 04'53	0.66791 AU
	181 Jan 14 j 16:56	0° \mathbb{L}		morning rise	181 Dec 18 j 10:36	15° \mathbb{L} 03'56	
morning max el	181 Jan 22 j 20:06	6° \mathbb{L} 19'06	26°27'55	direct	181 Dec 24 j 08:07	12° \mathbb{L} 27'03	
desc. node	181 Jan 26 j 02:48	9° \mathbb{L} 50'01		morning max el	182 Jan 05 j 05:00	19° \mathbb{L} 30'49	25°12'40
	181 Feb 10 j 03:34	0° \mathbb{L}		desc. node	182 Jan 12 j 23:52	28° \mathbb{L} 29'37	
morning set	181 Feb 27 j 21:58	0° \mathbb{K} 06'51			182 Jan 14 j 03:57	0° \mathbb{L}	
	181 Feb 27 j 20:30	0° \mathbb{K}			182 Feb 03 j 06:25	0° \mathbb{L}	
max. Earth dist.	181 Mar 04 j 01:29	8° \mathbb{K} 06'45	1.34915 AU	morning set	182 Feb 10 j 10:41	12° \mathbb{L} 25'21	
				max. Earth dist.	182 Feb 14 j 03:30	19° \mathbb{L} 12'17	1.36630 AU
superior conj	181 Mar 08 j 16:27	17° \mathbb{K} 26'05	-1°07'06		182 Feb 19 j 18:25	0° \mathbb{K}	
minimum elong	181 Mar 08 j 19:37	17° \mathbb{K} 42'20	1°06'34	superior conj	182 Feb 20 j 06:18	0° \mathbb{K} 58'37	-1°31'10
	181 Mar 14 j 17:27	0° \mathbb{Y}		minimum elong	182 Feb 20 j 10:10	1° \mathbb{K} 17'47	1°30'39
asc. node	181 Mar 15 j 13:32	1° \mathbb{Y} 44'23		evening rise	182 Feb 28 j 12:09	17° \mathbb{K} 34'46	
evening rise	181 Mar 16 j 08:12	3° \mathbb{Y} 20'57		asc. node	182 Mar 02 j 10:36	21° \mathbb{K} 27'01	
	181 Mar 31 j 16:26	0° \mathbb{L}			182 Mar 06 j 21:59	0° \mathbb{Y}	
evening max el	181 Apr 04 j 07:41	4° \mathbb{L} 02'07	20°48'37	evening max el	182 Mar 17 j 20:06	15° \mathbb{Y} 37'48	19°38'50
retrograde	181 Apr 15 j 16:19	9° \mathbb{L} 31'45		retrograde	182 Mar 27 j 11:43	20° \mathbb{Y} 15'59	
evening set	181 Apr 17 j 20:57	9° \mathbb{L} 20'16		evening set	182 Mar 29 j 14:32	20° \mathbb{Y} 03'35	
desc. node	181 Apr 24 j 01:58	7° \mathbb{L} 03'28		inferior conj	182 Apr 07 j 05:38	15° \mathbb{Y} 59'54	1°02'46
inferior conj	181 Apr 27 j 03:11	5° \mathbb{L} 22'26	-0°52'35	minimum elong	182 Apr 07 j 08:14	15° \mathbb{Y} 55'48	1°01'53
minimum elong	181 Apr 27 j 00:41	5° \mathbb{L} 26'00	0°51'40	min. Earth dist.	182 Apr 09 j 16:39	14° \mathbb{Y} 26'58	0.55851 AU
min. Earth dist.	181 Apr 28 j 02:15	4° \mathbb{L} 49'32	0.55046 AU	desc. node	182 Apr 10 j 23:01	13° \mathbb{Y} 41'27	
morning rise	181 May 06 j 03:53	1° \mathbb{L} 14'31		morning rise	182 Apr 15 j 23:23	11° \mathbb{Y} 21'47	
direct	181 May 09 j 13:48	0° \mathbb{L} 49'24		direct	182 Apr 20 j 07:46	10° \mathbb{Y} 39'26	
morning max el	181 May 22 j 16:38	7° \mathbb{L} 08'26	22°53'36	morning max el	182 May 04 j 08:06	17° \mathbb{Y} 41'41	24°34'36
	181 Jun 07 j 19:25	0° \mathbb{I}			182 May 14 j 10:18	0° \mathbb{L}	
asc. node	181 Jun 11 j 12:50	7° \mathbb{I} 13'45		asc. node	182 May 29 j 09:53	27° \mathbb{L} 05'14	
morning set	181 Jun 14 j 06:55	12° \mathbb{I} 53'37		morning set	182 May 29 j 18:55	27° \mathbb{L} 52'42	
					182 May 30 j 18:57	0° \mathbb{I}	
superior conj	181 Jun 21 j 10:11	28° \mathbb{I} 06'20	1°27'45	superior conj	182 Jun 05 j 19:06	12° \mathbb{I} 59'53	1°10'56
minimum elong	181 Jun 21 j 07:46	27° \mathbb{I} 53'31	1°27'28	minimum elong	182 Jun 05 j 16:40	12° \mathbb{I} 46'39	1°10'33
	181 Jun 22 j 07:35	0° \mathbb{L}		max. Earth dist.	182 Jun 07 j 09:01	16° \mathbb{I} 24'55	1.33040 AU
max. Earth dist.	181 Jun 24 j 04:06	3° \mathbb{L} 54'17	1.33969 AU	evening rise	182 Jun 13 j 01:44	28° \mathbb{I} 23'18	
evening rise	181 Jun 29 j 03:44	14° \mathbb{L} 02'46					
	181 Jul 07 j 17:44	0° \mathbb{L}					
desc. node	181 Jul 21 j 01:19	20° \mathbb{L} 50'56					

	182 Jun 13 j 20:50	0°☿			183 May 22 j 04:28	0°♊	
	182 Jun 30 j 22:15	0°♊		evening rise	183 May 28 j 06:30	13°♊03'07	
desc. node	182 Jul 07 j 22:21	9°♊43'29			183 Jun 05 j 23:33	0°☿	
evening max el	182 Jul 15 j 23:18	18°♊43'59	27°24'46	desc. node	183 Jun 24 j 19:22	27°☿37'57	
retrograde	182 Jul 29 j 16:49	26°♊03'03			183 Jun 27 j 01:05	0°♊	
evening set	182 Aug 05 j 21:52	23°♊27'56		evening max el	183 Jun 28 j 04:46	1°♊07'43	27°01'18
min. Earth dist.	182 Aug 09 j 11:57	20°♊26'06	0.63060 AU	retrograde	183 Jul 12 j 03:10	8°♊24'17	
inferior conj	182 Aug 12 j 06:30	17°♊42'37	-3°48'14	evening set	183 Jul 19 j 02:49	6°♊13'15	
minimum elong	182 Aug 12 j 11:20	17°♊30'42	3°47'03	min. Earth dist.	183 Jul 22 j 18:55	3°♊31'23	0.61135 AU
morning rise	182 Aug 19 j 02:01	12°♊31'08		inferior conj	183 Jul 25 j 23:42	0°♊45'03	-4°26'40
direct	182 Aug 21 j 14:32	12°♊01'19		minimum elong	183 Jul 26 j 03:37	0°♊36'31	4°26'06
asc. node	182 Aug 25 j 09:07	13°♊09'22			183 Jul 26 j 20:34	30°☿☿	
morning max el	182 Aug 28 j 05:59	15°♊26'42	17°52'59	morning rise	183 Aug 02 j 06:08	25°☿54'22	
	182 Sep 07 j 09:55	0°♎		direct	183 Aug 04 j 17:16	25°☿29'47	
morning set	182 Sep 13 j 15:45	10°♎54'20		morning max el	183 Aug 11 j 19:35	29°☿00'52	18°01'17
	182 Sep 24 j 16:47	0°♏		asc. node	183 Aug 12 j 06:09	29°☿27'12	
					183 Aug 12 j 18:36	0°♊	
superior conj	182 Sep 25 j 09:10	1°♏08'39	0°54'51	morning set	183 Aug 27 j 17:12	24°♊06'16	
minimum elong	182 Sep 25 j 13:56	1°♏28'36	0°54'16		183 Aug 30 j 21:54	0°♎	
max. Earth dist.	182 Oct 01 j 23:40	11°♏59'06	1.43628 AU				
desc. node	182 Oct 03 j 21:41	15°♏03'41		superior conj	183 Sep 06 j 20:38	12°♎31'51	1°24'06
evening rise	182 Oct 10 j 18:10	25°♏49'49		minimum elong	183 Sep 07 j 01:03	12°♎51'18	1°23'40
	182 Oct 13 j 11:09	0°♏		max. Earth dist.	183 Sep 14 j 10:11	25°♎29'01	1.42028 AU
	182 Nov 03 j 02:19	0°♐			183 Sep 17 j 04:01	0°♏	
evening max el	182 Nov 09 j 11:50	7°♐36'41	21°05'19	evening rise	183 Sep 20 j 10:04	5°♏14'24	
retrograde	182 Nov 18 j 00:24	12°♐40'16		desc. node	183 Sep 20 j 18:44	5°♏48'53	
asc. node	182 Nov 21 j 08:22	11°♐37'41			183 Oct 06 j 18:45	0°♏	
evening set	182 Nov 22 j 01:20	11°♐07'52		evening max el	183 Oct 23 j 06:09	21°♏06'36	22°21'01
inferior conj	182 Nov 27 j 10:18	4°♐55'18	1°58'42	retrograde	183 Nov 01 j 20:08	26°♏48'29	
minimum elong	182 Nov 27 j 07:56	5°♐03'27	1°57'50	evening set	183 Nov 06 j 08:58	24°♏59'03	
min. Earth dist.	182 Nov 27 j 19:52	4°♐22'25	0.67403 AU	asc. node	183 Nov 08 j 05:23	23°♏11'03	
	182 Dec 01 j 06:42	30°♏♏		inferior conj	183 Nov 11 j 17:17	18°♏39'54	1°10'55
morning rise	182 Dec 02 j 14:21	28°♏41'48		minimum elong	183 Nov 11 j 15:42	18°♏45'21	1°10'17
direct	182 Dec 07 j 20:51	26°♏24'14		min. Earth dist.	183 Nov 11 j 15:58	18°♏44'26	0.67673 AU
	182 Dec 15 j 13:20	0°♐		morning rise	183 Nov 16 j 22:17	12°♏28'04	
morning max el	182 Dec 18 j 13:37	2°♐47'04	23°46'23	direct	183 Nov 21 j 13:48	10°♏32'49	
desc. node	182 Dec 30 j 20:55	17°♐50'33		morning max el	183 Dec 01 j 00:48	16°♏08'29	22°18'59
	183 Jan 08 j 07:31	0°♑			183 Dec 12 j 07:22	0°♐	
morning set	183 Jan 23 j 00:26	23°♑32'32		desc. node	183 Dec 17 j 17:58	7°♐41'23	
	183 Jan 26 j 17:44	0°♑			184 Jan 01 j 09:04	0°♑	
max. Earth dist.	183 Jan 26 j 22:36	0°♑21'32	1.38668 AU	morning set	184 Jan 03 j 09:42	3°♑15'53	
				max. Earth dist.	184 Jan 08 j 19:11	12°♑11'23	1.40796 AU
superior conj	183 Feb 03 j 07:13	13°♑48'42	-1°50'22				
minimum elong	183 Feb 03 j 10:45	14°♑05'21	1°50'05	superior conj	184 Jan 16 j 14:30	25°♑45'09	-2°01'14
	183 Feb 11 j 16:13	0°♒		minimum elong	184 Jan 16 j 15:53	25°♑51'18	2°01'12
evening rise	183 Feb 12 j 08:47	1°♒20'53			184 Jan 18 j 23:00	0°♑	
asc. node	183 Feb 17 j 07:39	10°♒49'43		evening rise	184 Jan 26 j 18:58	14°♑32'05	
evening max el	183 Feb 28 j 18:54	27°♒50'19	18°48'31	asc. node	184 Feb 04 j 04:42	29°♑45'56	
	183 Mar 03 j 10:45	0°♓			184 Feb 04 j 08:04	0°♒	
retrograde	183 Mar 08 j 23:01	1°♓47'57		evening max el	184 Feb 12 j 01:21	10°♒32'44	18°18'12
evening set	183 Mar 11 j 06:26	1°♓30'13		retrograde	184 Feb 19 j 05:00	14°♒06'06	
	183 Mar 14 j 20:56	30°♒♒		evening set	184 Feb 21 j 17:48	13°♒40'24	
inferior conj	183 Mar 19 j 02:28	27°♒10'23	2°31'19	inferior conj	184 Feb 28 j 20:20	8°♒59'50	3°24'40
minimum elong	183 Mar 19 j 06:48	27°♒02'26	2°30'11	minimum elong	184 Feb 28 j 23:25	8°♒53'14	3°24'11
min. Earth dist.	183 Mar 22 j 09:25	24°♒46'46	0.57425 AU	min. Earth dist.	184 Mar 03 j 06:20	6°♒05'55	0.59442 AU
morning rise	183 Mar 27 j 04:09	21°♒59'25		morning rise	184 Mar 07 j 02:44	3°♒23'55	
desc. node	183 Mar 28 j 20:04	21°♒22'02		direct	184 Mar 13 j 12:28	1°♒32'56	
direct	183 Apr 01 j 15:38	20°♒46'13		desc. node	184 Mar 14 j 17:06	1°♒36'42	
morning max el	183 Apr 15 j 23:38	28°♒16'11	26°05'51	morning max el	184 Mar 27 j 19:50	9°♒17'04	27°12'38
	183 Apr 17 j 16:41	0°♓			184 Apr 12 j 16:21	0°♓	
	183 May 07 j 20:40	0°♈		morning set	184 Apr 27 j 15:26	27°♓37'16	
morning set	183 May 14 j 06:19	12°♈49'13			184 Apr 28 j 18:39	0°♈	
asc. node	183 May 16 j 06:55	17°♈07'48		asc. node	184 May 02 j 03:58	7°♈16'44	
superior conj	183 May 21 j 06:19	27°♈58'41	0°50'27	superior conj	184 May 04 j 18:03	12°♈56'32	0°27'06
minimum elong	183 May 21 j 04:19	27°♈47'43	0°50'04	minimum elong	184 May 04 j 16:52	12°♈50'02	0°26'50
max. Earth dist.	183 May 21 j 19:31	29°♈11'04	1.32493 AU	max. Earth dist.	184 May 04 j 08:13	12°♈02'30	1.32314 AU

evening rise	184 May 11 j 15:35	27°♄53'55		asc. node	185 Apr 19 j 01:01	27°♄27'38	
	184 May 12 j 15:40	0°♄			185 Apr 20 j 04:56	0°♄	
	184 May 29 j 13:40	0°♄		evening rise	185 Apr 26 j 02:55	12°♄48'23	
evening max el	184 Jun 09 j 03:53	12°♄47'04	26°05'30		185 May 04 j 20:15	0°♄	
desc. node	184 Jun 10 j 16:22	14°♄10'19		evening max el	185 May 21 j 20:34	23°♄44'17	24°43'56
retrograde	184 Jun 23 j 04:46	19°♄59'28		desc. node	185 May 28 j 13:22	28°♄48'32	
evening set	184 Jun 29 j 10:47	18°♄24'14			185 May 31 j 05:31	0°♄	
min. Earth dist.	184 Jul 03 j 16:39	15°♄45'51	0.59077 AU	retrograde	185 Jun 04 j 19:28	0°♄48'24	
inferior conj	184 Jul 07 j 00:22	13°♄15'55	-4°46'01		185 Jun 09 j 10:14	30°♄♄	
minimum elong	184 Jul 07 j 01:17	13°♄14'12	4°45'59	evening set	185 Jun 09 j 19:39	29°♄51'37	
morning rise	184 Jul 14 j 18:01	8°♄47'34		min. Earth dist.	185 Jun 15 j 07:57	26°♄59'41	0.57144 AU
direct	184 Jul 17 j 06:02	8°♄26'20		inferior conj	185 Jun 18 j 05:30	25°♄06'15	-4°34'15
morning max el	184 Jul 25 j 03:55	12°♄13'17	18°29'29	minimum elong	185 Jun 18 j 01:42	25°♄12'29	4°33'50
asc. node	184 Jul 29 j 03:12	16°♄50'04		morning rise	185 Jun 26 j 10:30	20°♄58'57	
	184 Aug 06 j 03:05	0°♄		direct	185 Jun 29 j 00:48	20°♄39'57	
morning set	184 Aug 10 j 07:28	7°♄55'48		morning max el	185 Jul 08 j 04:05	24°♄55'13	19°18'37
					185 Jul 12 j 14:29	0°♄	
superior conj	184 Aug 19 j 07:06	25°♄03'16	1°40'49	asc. node	185 Jul 16 j 00:15	5°♄03'57	
minimum elong	184 Aug 19 j 09:34	25°♄14'42	1°40'39	morning set	185 Jul 25 j 06:49	22°♄13'23	
	184 Aug 21 j 23:44	0°♄			185 Jul 29 j 04:11	0°♄	
max. Earth dist.	184 Aug 26 j 15:48	8°♄17'35	1.40094 AU				
evening rise	184 Aug 30 j 23:42	15°♄39'56		superior conj	185 Aug 02 j 11:00	8°♄28'00	1°46'53
desc. node	184 Sep 06 j 15:44	26°♄28'08		minimum elong	185 Aug 02 j 11:23	8°♄29'54	1°46'52
	184 Sep 08 j 22:08	0°♄		max. Earth dist.	185 Aug 08 j 19:15	20°♄28'16	1.38077 AU
	184 Sep 30 j 13:47	0°♄		evening rise	185 Aug 12 j 14:07	27°♄16'03	
evening max el	184 Oct 04 j 20:11	4°♄39'02	23°41'06		185 Aug 14 j 03:44	0°♄	
retrograde	184 Oct 15 j 12:44	10°♄57'11		desc. node	185 Aug 24 j 12:44	16°♄57'30	
evening set	184 Oct 20 j 15:11	8°♄49'47			185 Sep 02 j 09:37	0°♄	
asc. node	184 Oct 25 j 02:25	3°♄42'01		evening max el	185 Sep 17 j 08:03	18°♄14'57	24°58'51
min. Earth dist.	184 Oct 25 j 12:29	3°♄07'51	0.67619 AU	retrograde	185 Sep 29 j 01:16	25°♄02'59	
inferior conj	184 Oct 26 j 00:13	2°♄27'49	0°18'48	evening set	185 Oct 04 j 18:20	22°♄38'26	
minimum elong	184 Oct 25 j 23:47	2°♄29'21	0°18'37	min. Earth dist.	185 Oct 09 j 07:07	17°♄31'04	0.67243 AU
	184 Oct 27 j 20:36	30°♄♄		inferior conj	185 Oct 10 j 05:29	16°♄17'28	-0°36'11
morning rise	184 Oct 31 j 08:18	26°♄20'13		minimum elong	185 Oct 10 j 06:23	16°♄14'30	0°35'48
direct	184 Nov 04 j 09:53	24°♄47'12		asc. node	185 Oct 11 j 23:27	14°♄02'32	
morning max el	184 Nov 12 j 18:03	29°♄38'38	20°58'18	morning rise	185 Oct 15 j 18:32	10°♄16'42	
	184 Nov 13 j 02:25	0°♄		direct	185 Oct 19 j 07:51	9°♄03'47	
desc. node	184 Dec 03 j 15:00	27°♄53'10		morning max el	185 Oct 26 j 19:06	13°♄19'44	19°49'27
	184 Dec 05 j 00:38	0°♄			185 Nov 08 j 10:25	0°♄	
morning set	184 Dec 12 j 16:04	11°♄45'07		desc. node	185 Nov 20 j 12:02	18°♄20'02	
max. Earth dist.	184 Dec 20 j 23:11	24°♄58'53	1.42710 AU	morning set	185 Nov 21 j 12:37	19°♄54'58	
	184 Dec 24 j 00:31	0°♄			185 Nov 28 j 00:09	0°♄	
				max. Earth dist.	185 Dec 03 j 10:46	8°♄35'30	1.44144 AU
superior conj	184 Dec 27 j 22:41	6°♄34'34	-1°59'19				
minimum elong	184 Dec 27 j 19:45	6°♄22'08	1°59'13	superior conj	185 Dec 08 j 04:05	16°♄10'03	-1°40'16
evening rise	185 Jan 08 j 14:51	27°♄00'06		minimum elong	185 Dec 07 j 20:34	15°♄39'40	1°39'38
	185 Jan 10 j 07:04	0°♄			185 Dec 16 j 13:42	0°♄	
asc. node	185 Jan 21 j 01:43	18°♄07'00		evening rise	185 Dec 21 j 16:11	8°♄37'14	
evening max el	185 Jan 25 j 12:16	23°♄35'54	18°07'36		186 Jan 03 j 15:11	0°♄	
retrograde	185 Feb 01 j 02:59	27°♄00'42		asc. node	186 Jan 07 j 22:45	5°♄42'39	
evening set	185 Feb 03 j 20:25	26°♄25'48		evening max el	186 Jan 09 j 00:46	6°♄52'27	18°16'12
inferior conj	185 Feb 10 j 08:55	21°♄23'52	3°47'24	retrograde	186 Jan 15 j 12:26	10°♄21'58	
minimum elong	185 Feb 10 j 09:47	21°♄21'45	3°47'22	evening set	186 Jan 18 j 10:24	9°♄37'04	
min. Earth dist.	185 Feb 13 j 10:13	18°♄24'38	0.61547 AU	inferior conj	186 Jan 24 j 12:23	4°♄15'14	3°47'08
morning rise	185 Feb 16 j 21:46	15°♄31'41		minimum elong	186 Jan 24 j 11:19	4°♄18'11	3°47'05
direct	185 Feb 23 j 19:27	13°♄07'15		min. Earth dist.	186 Jan 26 j 23:31	1°♄32'08	0.63471 AU
desc. node	185 Mar 01 j 14:08	14°♄37'11			186 Jan 28 j 11:22	30°♄♄	
morning max el	185 Mar 09 j 22:23	20°♄58'09	27°45'11	morning rise	186 Jan 30 j 11:30	28°♄12'58	
	185 Mar 17 j 18:30	0°♄		direct	186 Feb 06 j 10:52	25°♄27'14	
	185 Apr 05 j 15:23	0°♄		desc. node	186 Feb 16 j 11:12	29°♄54'12	
morning set	185 Apr 11 j 20:23	12°♄10'15			186 Feb 16 j 14:04	0°♄	
max. Earth dist.	185 Apr 17 j 19:16	24°♄45'53	1.32503 AU	morning max el	186 Feb 20 j 05:56	3°♄19'10	27°40'35
					186 Mar 12 j 04:44	0°♄	
superior conj	185 Apr 19 j 04:40	27°♄47'30	0°01'37	morning set	186 Mar 26 j 18:48	26°♄20'15	
minimum elong	185 Apr 19 j 04:35	27°♄47'05	0°01'36		186 Mar 28 j 14:22	0°♄	
behind sun begin	185 Apr 18 j 23:31	27°♄19'24		max. Earth dist.	186 Apr 01 j 00:38	7°♄07'17	1.33090 AU
behind sun end	185 Apr 19 j 09:40	28°♄14'46					

superior conj	186 Apr 03 j 12:23	12° Υ 25'30	-0°25'09	minimum elong	187 Mar 18 j 17:46	26° Υ 57'48	0°51'35
minimum elong	186 Apr 03 j 13:36	12° Υ 32'00	0°24'53		187 Mar 20 j 04:26	0° Υ	
asc. node	186 Apr 05 j 22:03	17° Υ 36'10		asc. node	187 Mar 23 j 19:06	7° Υ 38'31	
evening rise	186 Apr 10 j 14:40	27° Υ 39'37		evening rise	187 Mar 26 j 01:00	12° Υ 21'41	
	186 Apr 11 j 17:27	0° B			187 Apr 04 j 04:21	0° B	
	186 Apr 29 j 12:06	0° II		evening max el	187 Apr 15 j 06:32	15° B 00'23	21°36'40
evening max el	186 May 03 j 10:57	4° II 18'00	23°09'21	retrograde	187 Apr 27 j 13:49	21° B 00'25	
desc. node	186 May 15 j 10:23	10° II 55'24		evening set	187 Apr 30 j 01:07	20° B 46'37	
retrograde	186 May 16 j 21:56	11° II 00'23		desc. node	187 May 02 j 07:25	20° B 11'27	
evening set	186 May 20 j 11:08	10° II 32'43		inferior conj	187 May 09 j 10:58	16° B 44'43	-2°00'57
min. Earth dist.	186 May 27 j 20:34	7° II 13'30	0.55674 AU	minimum elong	187 May 09 j 05:28	16° B 52'27	1°59'05
inferior conj	186 May 29 j 14:51	6° II 11'44	-3°39'18	min. Earth dist.	187 May 09 j 09:24	16° B 46'55	0.54999 AU
minimum elong	186 May 29 j 07:39	6° II 22'18	3°37'34	morning rise	187 May 18 j 10:36	12° B 46'56	
morning rise	186 Jun 07 j 06:48	2° II 17'31		direct	187 May 21 j 11:48	12° B 26'31	
direct	186 Jun 10 j 00:22	1° II 59'37		morning max el	187 Jun 02 j 20:25	18° B 16'47	21°57'00
morning max el	186 Jun 20 j 17:45	6° II 57'26	20°28'41		187 Jun 12 j 05:43	0° II	
asc. node	186 Jul 02 j 21:18	23° II 55'59		asc. node	187 Jun 19 j 18:22	13° II 16'52	
	186 Jul 06 j 02:29	0° B		morning set	187 Jun 23 j 21:46	21° II 39'34	
morning set	186 Jul 09 j 12:20	6° B 50'03			187 Jun 27 j 20:48	0° B	
superior conj	186 Jul 17 j 03:19	22° B 30'36	1°44'29	superior conj	187 Jul 01 j 04:15	6° B 59'40	1°35'25
minimum elong	186 Jul 17 j 02:07	22° B 24'32	1°44'26	minimum elong	187 Jul 01 j 02:07	6° B 48'26	1°35'14
	186 Jul 20 j 21:17	0° Ω		max. Earth dist.	187 Jul 04 j 16:01	14° B 13'20	1.34677 AU
max. Earth dist.	186 Jul 22 j 01:34	2° Ω 17'53	1.36214 AU	evening rise	187 Jul 09 j 06:31	23° B 22'06	
evening rise	186 Jul 26 j 01:59	9° Ω 54'17			187 Jul 12 j 18:52	0° Ω	
	186 Aug 06 j 18:24	0° P		desc. node	187 Jul 29 j 06:45	27° Ω 01'11	
desc. node	186 Aug 11 j 09:45	7° P 10'56			187 Jul 31 j 09:28	0° P	
	186 Aug 28 j 23:18	0° B		evening max el	187 Aug 13 j 07:29	15° P 23'40	26°57'38
evening max el	186 Aug 30 j 19:32	1° B 51'46	26°06'56	retrograde	187 Aug 26 j 11:54	22° P 41'33	
retrograde	186 Sep 12 j 09:11	9° B 00'03		evening set	187 Sep 02 j 07:27	19° P 56'22	
evening set	186 Sep 18 j 16:31	6° B 21'48		min. Earth dist.	187 Sep 06 j 05:18	16° P 02'18	0.65460 AU
min. Earth dist.	186 Sep 22 j 21:29	1° B 50'46	0.66529 AU	inferior conj	187 Sep 08 j 03:19	13° P 49'24	-2°28'21
inferior conj	186 Sep 24 j 07:11	0° B 05'48	-1°32'32	minimum elong	187 Sep 08 j 07:03	13° P 38'36	2°26'59
minimum elong	186 Sep 24 j 09:33	29° P 58'26	1°31'35	morning rise	187 Sep 14 j 07:18	8° P 10'52	
	186 Sep 24 j 09:03	30° R P		asc. node	187 Sep 15 j 17:35	7° P 38'05	
asc. node	186 Sep 28 j 20:30	25° P 08'28		direct	187 Sep 17 j 02:49	7° P 27'31	
morning rise	186 Sep 30 j 02:56	24° P 14'39		morning max el	187 Sep 23 j 16:26	11° P 01'56	18°17'23
direct	186 Oct 03 j 06:09	23° P 18'24			187 Oct 06 j 22:31	0° B	
morning max el	186 Oct 10 j 03:15	27° P 09'01	18°55'17	morning set	187 Oct 12 j 15:15	9° B 18'52	
	186 Oct 12 j 16:10	0° B		desc. node	187 Oct 25 j 06:06	29° B 40'25	
morning set	186 Oct 31 j 23:57	28° B 54'53			187 Oct 25 j 11:02	0° B	
	186 Nov 01 j 16:29	0° B		superior conj	187 Oct 27 j 12:14	3° B 14'50	-0°14'50
desc. node	186 Nov 07 j 09:05	8° B 57'03		minimum elong	187 Oct 27 j 10:18	3° B 07'11	0°14'35
max. Earth dist.	186 Nov 16 j 03:16	22° B 42'27	1.44924 AU	behind sun begin	187 Oct 27 j 05:20	2° B 47'33	
superior conj	186 Nov 17 j 10:53	24° B 46'55	-1°03'07	behind sun end	187 Oct 27 j 15:16	3° B 26'50	
minimum elong	186 Nov 17 j 03:21	24° B 17'12	1°02'14	max. Earth dist.	187 Oct 29 j 21:49	7° B 01'54	1.44980 AU
	186 Nov 20 j 18:11	0° B		evening rise	187 Nov 12 j 22:15	28° B 58'21	
evening rise	186 Dec 02 j 19:00	19° B 16'34			187 Nov 13 j 14:02	0° B	
	186 Dec 09 j 09:38	0° B		greatest brilliancy	187 Nov 24 j 09:41	16° B 47'48	-0.7m
evening max el	186 Dec 23 j 12:15	20° B 16'43	18°43'11		187 Dec 03 j 15:05	0° B	
asc. node	186 Dec 25 j 19:47	22° B 20'00		evening max el	187 Dec 06 j 20:29	3° B 44'14	19°27'07
retrograde	186 Dec 30 j 05:05	24° B 01'51		asc. node	187 Dec 12 j 16:51	7° B 43'41	
evening set	187 Jan 02 j 08:25	23° B 05'51		retrograde	187 Dec 14 j 01:30	7° B 54'00	
inferior conj	187 Jan 08 j 02:52	17° B 26'23	3°30'21	evening set	187 Dec 17 j 11:46	6° B 45'20	
minimum elong	187 Jan 08 j 00:35	17° B 33'16	3°29'58	inferior conj	187 Dec 23 j 01:02	0° B 50'44	3°01'29
min. Earth dist.	187 Jan 09 j 22:40	15° B 13'39	0.65063 AU	minimum elong	187 Dec 22 j 22:17	0° B 59'41	3°00'47
morning rise	187 Jan 13 j 16:21	11° B 18'03			187 Dec 23 j 16:39	30° R B	
direct	187 Jan 20 j 09:29	8° B 25'43		min. Earth dist.	187 Dec 24 j 06:21	29° B 15'41	0.66275 AU
morning max el	187 Feb 02 j 15:39	16° B 09'38	27°02'19	morning rise	187 Dec 28 j 08:33	24° B 38'57	
desc. node	187 Feb 03 j 08:16	16° B 51'53		direct	188 Jan 03 j 14:15	21° B 53'18	
	187 Feb 14 j 02:59	0° \approx		morning max el	188 Jan 16 j 00:56	29° B 15'44	25°57'48
	187 Mar 04 j 23:27	0° B			188 Jan 16 j 18:15	0° B	
morning set	187 Mar 10 j 07:38	9° B 57'52		desc. node	188 Jan 21 j 05:19	5° B 00'25	
max. Earth dist.	187 Mar 14 j 20:26	18° B 56'15	1.34113 AU		188 Feb 07 j 23:14	0° \approx	
superior conj	187 Mar 18 j 15:16	26° B 44'40	-0°52'04	morning set	188 Feb 21 j 06:38	22° \approx 49'13	
				max. Earth dist.	188 Feb 25 j 04:13	0° B 10'59	1.35592 AU

	188 Feb 25 j 01:56	0° H		desc. node	189 Jan 07 j 02:22	23° Z 59'20	
					189 Jan 11 j 12:09	0° Z	
superior conj	188 Mar 01 j 10:43	10° H 36'32 -1°17'44			189 Jan 30 j 18:02	0° \approx	
minimum elong	188 Mar 01 j 14:17	10° H 54'30 1°17'11		morning set	189 Feb 02 j 10:19	4° \approx 38'55	
evening rise	188 Mar 09 j 07:53	26° H 47'16		max. Earth dist.	189 Feb 06 j 02:19	11° \approx 13'04	1.37479 AU
asc. node	188 Mar 09 j 16:09	27° H 29'29					
	188 Mar 10 j 21:50	0° Y		superior conj	189 Feb 12 j 19:35	23° \approx 52'19 -1°40'05	
evening max el	188 Mar 27 j 12:28	26° Y 13'54 20°16'43		minimum elong	189 Feb 12 j 23:29	24° \approx 11'14 1°39'40	
	188 Apr 01 j 16:15	0° Z			189 Feb 15 j 22:36	0° H	
retrograde	188 Apr 07 j 03:32	1° Z 20'24		evening rise	189 Feb 21 j 09:02	10° H 49'52	
evening set	188 Apr 09 j 06:03	1° Z 09'15		asc. node	189 Feb 24 j 13:12	17° H 04'04	
	188 Apr 12 j 23:54	30° R Y			189 Mar 03 j 20:34	0° Y	
inferior conj	188 Apr 18 j 06:55	27° Y 11'07 -0°01'46		evening max el	189 Mar 10 j 05:34	8° Y 05'27 19°14'55	
minimum elong	188 Apr 18 j 06:50	27° Y 11'15 0°01'43		retrograde	189 Mar 19 j 04:33	12° Y 24'10	
transit middle	188 Apr 18 j 06:50	27° Y 11'15 0°01'43		evening set	189 Mar 21 j 09:15	12° Y 09'45	
transit begin	188 Apr 18 j 02:50	27° Y 17'09		inferior conj	189 Mar 29 j 16:18	7° Y 59'57 1°44'35	
transit end	188 Apr 18 j 10:51	27° Y 05'20		minimum elong	189 Mar 29 j 20:06	7° Y 53'34 1°43'23	
desc. node	188 Apr 18 j 04:28	27° Y 14'44		min. Earth dist.	189 Apr 01 j 14:00	6° Y 03'47 0.56452 AU	
min. Earth dist.	188 Apr 19 j 23:06	26° Y 11'56 0.55281 AU		desc. node	189 Apr 05 j 01:31	4° Y 02'32	
morning rise	188 Apr 27 j 05:59	22° Y 51'24		morning rise	189 Apr 07 j 04:04	3° Y 07'46	
direct	188 May 01 j 00:35	22° Y 20'20		direct	189 Apr 12 j 00:14	2° Y 13'45	
morning max el	188 May 14 j 14:16	28° Y 59'57 23°36'43		morning max el	189 Apr 26 j 04:48	9° Y 28'52 25°15'34	
	188 May 15 j 14:54	0° Z			189 May 11 j 14:00	0° Z	
	188 Jun 04 j 04:12	0° II		morning set	189 May 22 j 21:11	21° Z 34'20	
asc. node	188 Jun 05 j 15:26	2° II 58'41		asc. node	189 May 23 j 12:28	22° Z 55'08	
morning set	188 Jun 07 j 09:17	6° II 36'12			189 May 26 j 19:22	0° II	
superior conj	188 Jun 14 j 10:54	21° II 45'54 1°21'07		superior conj	189 May 29 j 20:58	6° II 41'43 1°02'38	
minimum elong	188 Jun 14 j 08:25	21° II 32'33 1°20'47		minimum elong	189 May 29 j 18:40	6° II 29'09 1°02'14	
max. Earth dist.	188 Jun 16 j 16:10	26° II 30'28 1.33526 AU		max. Earth dist.	189 May 31 j 00:02	9° II 09'12 1.32764 AU	
	188 Jun 18 j 07:58	0° S		evening rise	189 Jun 06 j 00:22	21° II 55'47	
evening rise	188 Jun 21 j 23:11	7° S 26'23			189 Jun 10 j 01:16	0° S	
	188 Jul 04 j 07:12	0° Q			189 Jun 28 j 06:43	0° Q	
desc. node	188 Jul 15 j 03:47	16° Q 18'26		desc. node	189 Jul 02 j 00:49	4° Q 48'25	
evening max el	188 Jul 25 j 18:55	28° Q 39'58 27°23'35		evening max el	189 Jul 08 j 03:23	11° Q 26'21 27°18'58	
	188 Jul 27 j 05:45	0° P		retrograde	189 Jul 21 j 22:55	18° Q 43'36	
retrograde	188 Aug 08 j 08:46	5° P 59'17		evening set	189 Jul 29 j 03:08	16° Q 17'14	
evening set	188 Aug 15 j 12:15	3° P 17'13		min. Earth dist.	189 Aug 01 j 17:08	13° Q 25'40 0.62268 AU	
min. Earth dist.	188 Aug 19 j 04:23	29° Q 57'58 0.64031 AU		inferior conj	189 Aug 04 j 16:31	10° Q 39'13 -4°06'19	
	188 Aug 19 j 03:36	30° R Q		minimum elong	189 Aug 04 j 21:11	10° Q 28'17 4°05'20	
inferior conj	188 Aug 21 j 15:26	27° Q 23'09 -3°20'57		morning rise	189 Aug 11 j 16:35	5° Q 36'05	
minimum elong	188 Aug 21 j 20:08	27° Q 10'49 3°19'34		direct	189 Aug 14 j 04:21	5° Q 08'37	
morning rise	188 Aug 28 j 04:58	22° Q 00'34		asc. node	189 Aug 19 j 11:41	7° Q 16'18	
direct	188 Aug 30 j 19:21	21° Q 26'35		morning max el	189 Aug 20 j 23:14	8° Q 35'06 17°54'12	
asc. node	188 Sep 01 j 14:38	21° Q 43'09			189 Sep 03 j 23:13	0° P	
morning max el	188 Sep 06 j 08:04	24° Q 52'58 17°56'43		morning set	189 Sep 06 j 01:38	3° P 46'34	
	188 Sep 10 j 12:56	0° P					
morning set	188 Sep 23 j 09:48	21° P 02'23		superior conj	189 Sep 17 j 01:32	23° P 10'14 1°08'52	
	188 Sep 28 j 16:02	0° Q		minimum elong	189 Sep 17 j 06:29	23° P 31'21 1°08'18	
					189 Sep 21 j 02:43	0° Q	
superior conj	188 Oct 06 j 05:32	12° Q 33'00 0°32'11		max. Earth dist.	189 Sep 24 j 06:01	5° Q 10'09 1.43004 AU	
minimum elong	188 Oct 06 j 08:59	12° Q 47'03 0°31'43		desc. node	189 Sep 28 j 00:09	11° Q 13'32	
desc. node	188 Oct 11 j 03:07	20° Q 27'10		evening rise	189 Oct 01 j 17:12	17° Q 05'02	
max. Earth dist.	188 Oct 11 j 15:43	21° Q 17'22 1.44312 AU			189 Oct 10 j 03:42	0° P	
	188 Oct 17 j 04:17	0° P			189 Nov 01 j 05:06	0° Z	
evening rise	188 Oct 22 j 08:32	8° P 01'47		evening max el	189 Nov 01 j 21:16	0° Z 42'06 21°36'33	
	188 Nov 05 j 21:44	0° Z		retrograde	189 Nov 10 j 20:04	6° Z 01'26	
evening max el	188 Nov 18 j 23:48	17° Z 13'12 20°25'53		evening set	189 Nov 15 j 01:57	4° Z 21'44	
retrograde	188 Nov 26 j 23:09	21° Z 55'04		asc. node	189 Nov 15 j 10:56	4° Z 03'10	
asc. node	188 Nov 28 j 13:54	21° Z 40'16			189 Nov 19 j 01:01	30° R P	
evening set	188 Nov 30 j 18:14	20° Z 31'45		inferior conj	189 Nov 20 j 10:27	28° P 05'54 1°39'02	
inferior conj	188 Dec 06 j 04:18	14° Z 24'55 2°23'40		minimum elong	189 Nov 20 j 08:22	28° P 13'05 1°38'15	
minimum elong	188 Dec 06 j 01:39	14° Z 33'54 2°22'48		min. Earth dist.	189 Nov 20 j 15:13	27° P 49'27 0.67565 AU	
min. Earth dist.	188 Dec 06 j 20:38	13° Z 29'38 0.67104 AU		morning rise	189 Nov 25 j 14:40	21° P 53'05	
morning rise	188 Dec 11 j 08:53	8° Z 11'41		direct	189 Nov 30 j 14:43	19° P 45'01	
direct	188 Dec 17 j 00:14	5° Z 42'14		morning max el	189 Dec 10 j 18:38	25° P 47'21 23°08'52	
morning max el	188 Dec 28 j 09:17	12° Z 29'07 24°36'36			189 Dec 14 j 14:39	0° Z	

desc. node	189 Dec 24 j 23:24	13° ♄ 33'58		desc. node	190 Dec 11 j 20:26	3° ♄ 34'09	
	190 Jan 05 j 01:40	0° ♄		morning set	190 Dec 25 j 09:23	24° ♄ 19'52	
morning set	190 Jan 14 j 12:26	15° ♄ 11'14			190 Dec 28 j 21:53	0° ♄	
max. Earth dist.	190 Jan 18 j 21:41	22° ♄ 38'29	1.39587 AU	max. Earth dist.	190 Dec 31 j 21:05	4° ♄ 52'25	1.41649 AU
	190 Jan 23 j 01:53	0° ♄					
superior conj	190 Jan 26 j 13:40	6° ♄ 21'15	-1°56'13	superior conj	191 Jan 08 j 11:45	17° ♄ 50'15	-2°02'16
minimum elong	190 Jan 26 j 16:33	6° ♄ 34'33	1°56'05	minimum elong	191 Jan 08 j 11:32	17° ♄ 49'17	2°02'16
evening rise	190 Feb 05 j 01:40	24° ♄ 22'27			191 Jan 15 j 07:04	0° ♄	
	190 Feb 08 j 00:28	0° ♄		evening rise	191 Jan 19 j 06:19	7° ♄ 16'31	
asc. node	190 Feb 11 j 10:14	6° ♄ 16'32		asc. node	191 Jan 29 j 07:16	24° ♄ 59'00	
evening max el	190 Feb 21 j 07:57	20° ♄ 31'34	18°33'05		191 Feb 01 j 17:57	0° ♄	
retrograde	190 Mar 01 j 00:15	24° ♄ 17'10		evening max el	191 Feb 04 j 16:37	3° ♄ 23'35	18°11'16
evening set	190 Mar 03 j 09:59	23° ♄ 56'15		retrograde	191 Feb 11 j 13:41	6° ♄ 51'53	
inferior conj	190 Mar 10 j 22:10	19° ♄ 27'28	2°58'09	evening set	191 Feb 14 j 04:21	6° ♄ 22'33	
minimum elong	190 Mar 11 j 02:13	19° ♄ 19'31	2°57'16	inferior conj	191 Feb 21 j 00:29	1° ♄ 32'54	3°37'36
min. Earth dist.	190 Mar 14 j 08:02	16° ♄ 48'15	0.58249 AU	minimum elong	191 Feb 21 j 02:38	1° ♄ 27'58	3°37'22
morning rise	190 Mar 18 j 15:42	14° ♄ 04'41			191 Feb 22 j 17:01	30° ♄	
desc. node	190 Mar 22 j 22:33	12° ♄ 42'43		min. Earth dist.	191 Feb 24 j 07:50	28° ♄ 33'29	0.60338 AU
direct	190 Mar 24 j 13:29	12° ♄ 35'59		morning rise	191 Feb 27 j 22:58	25° ♄ 48'44	
morning max el	190 Apr 07 j 22:05	20° ♄ 12'49	26°38'07	direct	191 Mar 06 j 14:56	23° ♄ 42'21	
	190 Apr 16 j 07:27	0° ♄		desc. node	191 Mar 09 j 19:36	24° ♄ 09'45	
	190 May 04 j 04:04	0° ♄			191 Mar 19 j 06:42	0° ♄	
morning set	190 May 07 j 07:52	6° ♄ 28'36		morning max el	191 Mar 20 j 21:14	1° ♄ 30'59	27°31'02
asc. node	190 May 10 j 09:30	13° ♄ 01'15			191 Apr 10 j 12:13	0° ♄	
				morning set	191 Apr 21 j 15:29	21° ♄ 11'18	
superior conj	190 May 14 j 08:37	21° ♄ 41'06	0°40'51		191 Apr 25 j 19:16	0° ♄	
minimum elong	190 May 14 j 06:55	21° ♄ 31'48	0°40'30	asc. node	191 Apr 27 j 06:32	3° ♄ 11'30	
max. Earth dist.	190 May 14 j 12:08	22° ♄ 00'27	1.32371 AU	max. Earth dist.	191 Apr 28 j 00:32	4° ♄ 49'45	1.32344 AU
	190 May 18 j 03:55	0° ♄					
evening rise	190 May 21 j 07:15	6° ♄ 41'29		superior conj	191 Apr 28 j 20:05	6° ♄ 36'46	0°16'30
	190 Jun 02 j 14:40	0° ♄		minimum elong	191 Apr 28 j 19:20	6° ♄ 32'42	0°16'20
desc. node	190 Jun 18 j 21:49	22° ♄ 11'35		evening rise	191 May 05 j 17:31	21° ♄ 34'24	
evening max el	190 Jun 20 j 06:12	23° ♄ 31'23	26°41'15		191 May 09 j 20:01	0° ♄	
	190 Jun 29 j 21:48	0° ♄			191 May 28 j 13:52	0° ♄	
retrograde	190 Jul 04 j 05:38	0° ♄ 46'26		evening max el	191 Jun 02 j 02:05	4° ♄ 50'30	25°33'15
	190 Jul 08 j 11:08	30° ♄		desc. node	191 Jun 05 j 18:50	7° ♄ 59'34	
evening set	190 Jul 10 j 23:41	28° ♄ 49'10		retrograde	191 Jun 16 j 03:14	12° ♄ 01'17	
min. Earth dist.	190 Jul 14 j 19:40	26° ♄ 11'21	0.60266 AU	evening set	191 Jun 21 j 21:47	10° ♄ 42'37	
inferior conj	190 Jul 18 j 03:07	23° ♄ 29'19	-4°37'52	min. Earth dist.	191 Jun 26 j 14:14	8° ♄ 00'19	0.58219 AU
minimum elong	190 Jul 18 j 06:02	23° ♄ 23'19	4°37'34	inferior conj	191 Jun 29 j 19:40	5° ♄ 43'17	-4°45'38
morning rise	190 Jul 25 j 14:19	18° ♄ 48'20		minimum elong	191 Jun 29 j 18:41	5° ♄ 45'02	4°45'36
direct	190 Jul 28 j 01:42	18° ♄ 25'18		morning rise	191 Jul 07 j 18:12	1° ♄ 24'38	
morning max el	190 Aug 04 j 11:01	22° ♄ 01'20	18°10'50	direct	191 Jul 10 j 06:54	1° ♄ 04'37	
asc. node	190 Aug 06 j 08:43	24° ♄ 03'40		morning max el	191 Jul 18 j 16:17	5° ♄ 02'01	18°47'49
	190 Aug 10 j 15:53	0° ♄		asc. node	191 Jul 24 j 05:46	11° ♄ 49'30	
morning set	190 Aug 20 j 09:03	17° ♄ 15'41			191 Aug 03 j 11:38	0° ♄	
	190 Aug 27 j 04:37	0° ♄		morning set	191 Aug 04 j 03:32	1° ♄ 17'34	
superior conj	190 Aug 29 j 23:30	5° ♄ 04'32	1°32'37	superior conj	191 Aug 12 j 18:03	18° ♄ 00'14	1°44'32
minimum elong	190 Aug 30 j 03:11	5° ♄ 21'04	1°32'19	minimum elong	191 Aug 12 j 19:36	18° ♄ 07'34	1°44'29
max. Earth dist.	190 Sep 06 j 14:24	18° ♄ 23'12	1.41230 AU		191 Aug 19 j 06:22	0° ♄	
evening rise	190 Sep 11 j 17:17	26° ♄ 52'09		max. Earth dist.	191 Aug 19 j 17:55	0° ♄ 51'24	1.39227 AU
	190 Sep 13 j 15:55	0° ♄		evening rise	191 Aug 23 j 17:32	7° ♄ 47'26	
desc. node	190 Sep 14 j 21:09	1° ♄ 56'19		desc. node	191 Sep 01 j 18:10	22° ♄ 31'38	
	190 Oct 03 j 21:20	0° ♄			191 Sep 06 j 15:35	0° ♄	
evening max el	190 Oct 15 j 13:22	14° ♄ 11'53	22°54'49	evening max el	191 Sep 28 j 02:05	27° ♄ 45'10	24°14'55
retrograde	190 Oct 25 j 14:42	20° ♄ 10'09			191 Sep 30 j 12:05	0° ♄	
evening set	190 Oct 30 j 09:12	18° ♄ 12'51		retrograde	191 Oct 09 j 05:50	4° ♄ 17'51	
asc. node	190 Nov 02 j 07:58	15° ♄ 04'51		evening set	191 Oct 14 j 14:20	2° ♄ 03'01	
inferior conj	190 Nov 04 j 17:37	11° ♄ 51'47	0°49'15		191 Oct 16 j 15:14	30° ♄	
minimum elong	190 Nov 04 j 16:29	11° ♄ 55'41	0°48'47	min. Earth dist.	191 Oct 19 j 07:53	26° ♄ 35'18	0.67490 AU
min. Earth dist.	190 Nov 04 j 11:46	12° ♄ 11'57	0.67688 AU	inferior conj	191 Oct 20 j 00:04	25° ♄ 40'44	-0°04'15
morning rise	190 Nov 09 j 23:41	5° ♄ 41'30		minimum elong	191 Oct 20 j 00:11	25° ♄ 40'23	0°04'12
direct	190 Nov 14 j 08:59	3° ♄ 56'06		transit middle	191 Oct 20 j 00:11	25° ♄ 40'23	0°04'12
morning max el	190 Nov 23 j 08:13	9° ♄ 12'26	21°43'31	transit begin	191 Oct 19 j 21:32	25° ♄ 49'17	
	190 Dec 09 j 09:51	0° ♄		transit end	191 Oct 20 j 02:49	25° ♄ 31'30	
				asc. node	191 Oct 20 j 05:00	25° ♄ 24'09	

morning rise	191 Oct 25 j 10:01	19° Ω 35'30		morning rise	192 Oct 08 j 19:44	3° Ω 32'42	
direct	191 Oct 29 j 06:04	18° Ω 11'27		direct	192 Oct 12 j 04:30	2° Ω 27'10	
morning max el	191 Nov 06 j 04:43	22° Ω 47'08	20°27'21	morning max el	192 Oct 19 j 08:50	6° Ω 31'15	19°24'28
	191 Nov 12 j 06:40	0° \mathbb{M}			192 Nov 05 j 07:16	0° \mathbb{M}	
desc. node	191 Nov 28 j 17:27	23° \mathbb{M} 52'47		morning set	192 Nov 12 j 08:41	10° \mathbb{M} 54'57	
	191 Dec 02 j 17:19	0° \mathcal{A}		desc. node	192 Nov 14 j 14:28	14° \mathbb{M} 24'00	
morning set	191 Dec 04 j 08:37	2° \mathcal{A} 31'58			192 Nov 24 j 13:35	0° \mathcal{A}	
max. Earth dist.	191 Dec 14 j 03:55	18° \mathcal{A} 00'30	1.43382 AU	max. Earth dist.	192 Nov 25 j 17:51	1° \mathcal{A} 51'39	1.44561 AU
superior conj	191 Dec 20 j 08:47	28° \mathcal{A} 08'36	-1°53'33	superior conj	192 Nov 29 j 03:19	7° \mathcal{A} 15'09	-1°26'32
minimum elong	191 Dec 20 j 03:42	27° \mathcal{A} 47'31	1°53'15	minimum elong	192 Nov 28 j 18:58	6° \mathcal{A} 41'52	1°25'42
	191 Dec 21 j 11:33	0° \mathcal{B}		evening rise	192 Dec 13 j 10:57	0° \mathcal{B} 36'13	
evening rise	192 Jan 01 j 18:54	19° \mathcal{B} 23'55			192 Dec 13 j 02:15	0° \mathcal{B}	
	192 Jan 07 j 20:44	0° \approx		evening max el	193 Jan 01 j 17:05	29° \mathcal{B} 54'23	18°25'35
asc. node	192 Jan 16 j 04:19	13° \approx 02'33			193 Jan 01 j 19:19	0° \approx	
evening max el	192 Jan 19 j 04:39	16° \approx 33'53	18°09'01	asc. node	193 Jan 02 j 01:22	0° \approx 15'01	
retrograde	192 Jan 25 j 17:00	19° \approx 59'06		retrograde	193 Jan 08 j 05:52	3° \approx 28'54	
evening set	192 Jan 28 j 12:17	19° \approx 20'08		evening set	193 Jan 11 j 06:04	2° \approx 39'19	
inferior conj	192 Feb 03 j 19:57	14° \approx 09'52	3°49'39		193 Jan 14 j 14:26	30° \mathcal{R} \mathcal{B}	
minimum elong	192 Feb 03 j 19:55	14° \approx 09'58	3°49'39	inferior conj	193 Jan 17 j 04:31	27° \mathcal{B} 09'48	3°41'43
min. Earth dist.	192 Feb 06 j 15:45	11° \approx 14'55	0.62398 AU	minimum elong	193 Jan 17 j 02:51	27° \mathcal{B} 14'37	3°41'31
morning rise	192 Feb 10 j 02:27	8° \approx 12'48		min. Earth dist.	193 Jan 19 j 09:08	24° \mathcal{B} 38'27	0.64199 AU
direct	192 Feb 17 j 02:08	5° \approx 37'09		morning rise	193 Jan 22 j 23:06	21° \mathcal{B} 04'53	
desc. node	192 Feb 24 j 16:39	8° \approx 12'50		direct	193 Jan 29 j 20:48	18° \mathcal{B} 14'30	
morning max el	192 Mar 02 j 02:08	13° \approx 29'52	27°47'33	desc. node	193 Feb 10 j 13:41	24° \mathcal{B} 16'11	
	192 Mar 15 j 08:27	0° \mathcal{H}		morning max el	193 Feb 12 j 10:42	26° \mathcal{B} 03'40	27°28'00
	192 Apr 01 j 22:32	0° \mathcal{Y}			193 Feb 16 j 02:38	0° \approx	
morning set	192 Apr 04 j 17:59	5° \mathcal{Y} 35'35			193 Mar 08 j 21:17	0° \mathcal{H}	
max. Earth dist.	192 Apr 10 j 09:28	17° \mathcal{Y} 24'22	1.32702 AU	morning set	193 Mar 19 j 12:45	19° \mathcal{H} 32'43	
				max. Earth dist.	193 Mar 24 j 11:06	29° \mathcal{H} 32'13	1.33474 AU
					193 Mar 24 j 16:26	0° \mathcal{Y}	
superior conj	192 Apr 12 j 05:43	21° \mathcal{Y} 23'11	-0°09'38				
minimum elong	192 Apr 12 j 06:10	21° \mathcal{Y} 25'39	0°09'32				
behind sun begin	192 Apr 12 j 02:01	21° \mathcal{Y} 03'06		superior conj	193 Mar 27 j 11:40	5° \mathcal{Y} 54'01	-0°36'37
behind sun end	192 Apr 12 j 10:20	21° \mathcal{Y} 48'14		minimum elong	193 Mar 27 j 13:27	6° \mathcal{Y} 03'26	0°36'14
asc. node	192 Apr 13 j 03:35	23° \mathcal{Y} 21'56		asc. node	193 Mar 31 j 00:40	13° \mathcal{Y} 28'23	
	192 Apr 16 j 04:51	0° \mathcal{B}		evening rise	193 Apr 03 j 16:39	21° \mathcal{Y} 16'19	
evening rise	192 Apr 19 j 05:15	6° \mathcal{B} 28'11			193 Apr 07 j 23:15	0° \mathcal{B}	
	192 May 01 j 16:23	0° \mathbb{I}		evening max el	193 Apr 25 j 09:05	26° \mathcal{B} 09'02	22°28'56
evening max el	192 May 13 j 17:09	15° \mathbb{I} 34'40	24°04'22		193 Apr 30 j 04:51	0° \mathbb{I}	
desc. node	192 May 22 j 15:52	21° \mathbb{I} 37'25		retrograde	193 May 08 j 09:54	2° \mathbb{I} 34'53	
retrograde	192 May 27 j 12:59	22° \mathbb{I} 31'37		desc. node	193 May 09 j 12:54	2° \mathbb{I} 32'03	
evening set	192 May 31 j 21:49	21° \mathbb{I} 49'18		evening set	193 May 11 j 10:22	2° \mathbb{I} 14'51	
min. Earth dist.	192 Jun 07 j 04:18	18° \mathbb{I} 46'56	0.56443 AU		193 May 17 j 06:27	30° \mathcal{R} \mathcal{B}	
inferior conj	192 Jun 09 j 16:07	17° \mathbb{I} 14'16	-4°16'41	min. Earth dist.	193 May 19 j 16:44	28° \mathcal{B} 40'34	0.55282 AU
minimum elong	192 Jun 09 j 10:27	17° \mathbb{I} 23'07	4°15'45	inferior conj	193 May 20 j 18:40	28° \mathcal{B} 03'48	-3°02'08
morning rise	192 Jun 18 j 01:52	13° \mathbb{I} 13'36		minimum elong	193 May 20 j 11:27	28° \mathcal{B} 14'02	3°00'03
direct	192 Jun 20 j 17:13	12° \mathbb{I} 55'19		morning rise	193 May 29 j 14:31	24° \mathcal{B} 10'20	
morning max el	192 Jun 30 j 12:10	17° \mathbb{I} 27'36	19°45'52	direct	193 Jun 01 j 10:45	23° \mathcal{B} 51'50	
	192 Jul 09 j 21:57	0° \mathcal{E}		morning max el	193 Jun 12 j 20:58	29° \mathcal{B} 11'11	21°04'16
asc. node	192 Jul 10 j 02:49	0° \mathcal{E} 20'40			193 Jun 13 j 17:18	0° \mathbb{I}	
morning set	192 Jul 18 j 05:48	15° \mathcal{E} 43'36		asc. node	193 Jun 26 j 23:53	19° \mathbb{I} 26'19	
	192 Jul 25 j 07:14	0° \mathcal{Q}			193 Jul 02 j 08:02	0° \mathcal{E}	
				morning set	193 Jul 02 j 13:18	0° \mathcal{E} 27'04	
superior conj	192 Jul 26 j 03:43	1° \mathcal{Q} 41'59	1°46'46				
minimum elong	192 Jul 26 j 03:21	1° \mathcal{Q} 40'12	1°46'46	superior conj	193 Jul 10 j 00:08	15° \mathcal{E} 57'19	1°41'21
max. Earth dist.	192 Jul 31 j 21:41	12° \mathcal{Q} 48'56	1.37256 AU	minimum elong	193 Jul 09 j 22:28	15° \mathcal{E} 48'42	1°41'16
evening rise	192 Aug 04 j 17:39	19° \mathcal{Q} 51'17		max. Earth dist.	193 Jul 14 j 07:31	24° \mathcal{E} 40'31	1.35520 AU
	192 Aug 10 j 13:48	0° \mathbb{N}			193 Jul 17 j 00:58	0° \mathcal{Q}	
desc. node	192 Aug 18 j 15:10	12° \mathbb{N} 54'40		evening rise	193 Jul 18 j 13:17	2° \mathcal{Q} 52'47	
	192 Aug 30 j 17:00	0° \mathcal{L}			193 Aug 03 j 12:15	0° \mathbb{N}	
evening max el	192 Sep 09 j 13:45	11° \mathcal{L} 22'08	25°29'38	desc. node	193 Aug 05 j 12:13	2° \mathbb{N} 59'38	
retrograde	192 Sep 21 j 16:27	18° \mathcal{L} 19'58		evening max el	193 Aug 23 j 01:41	24° \mathbb{N} 58'52	26°31'06
evening set	192 Sep 27 j 15:36	15° \mathcal{L} 49'19			193 Aug 29 j 07:27	0° \mathcal{L}	
min. Earth dist.	192 Oct 02 j 01:05	10° \mathcal{L} 56'58	0.66976 AU	retrograde	193 Sep 04 j 22:01	2° \mathcal{L} 11'31	
inferior conj	192 Oct 03 j 04:04	9° \mathcal{L} 30'01	-1°00'02		193 Sep 10 j 19:40	30° \mathcal{R} \mathbb{N}	
minimum elong	192 Oct 03 j 05:35	9° \mathcal{L} 25'07	0°59'23	evening set	193 Sep 11 j 10:59	29° \mathbb{N} 29'29	
asc. node	192 Oct 06 j 02:03	5° \mathcal{L} 57'20		min. Earth dist.	193 Sep 15 j 12:55	25° \mathbb{N} 14'14	0.66124 AU

inferior conj	193 Sep 17 j 03:41	23° \mathbb{M} 17'06	-1°56'23	minimum elong	194 Sep 01 j 00:56	6° \mathbb{M} 45'14	2°49'48
minimum elong	193 Sep 17 j 06:39	23° \mathbb{M} 08'07	1°55'14	morning rise	194 Sep 07 j 04:38	1° \mathbb{M} 25'05	
asc. node	193 Sep 22 j 23:06	17° \mathbb{M} 36'08		direct	194 Sep 09 j 21:43	0° \mathbb{M} 46'07	
morning rise	193 Sep 23 j 02:45	17° \mathbb{M} 30'54		asc. node	194 Sep 09 j 20:09	0° \mathbb{M} 46'08	
direct	193 Sep 26 j 02:31	16° \mathbb{M} 40'26		morning max el	194 Sep 16 j 10:02	4° \mathbb{M} 15'48	18°06'27
morning max el	193 Oct 02 j 19:25	20° \mathbb{M} 22'41	18°37'07		194 Oct 03 j 13:24	0° \mathbb{M}	
	193 Oct 10 j 06:18	0° \mathbb{M}		morning set	194 Oct 04 j 10:46	1° \mathbb{M} 29'12	
morning set	193 Oct 23 j 07:21	20° \mathbb{M} 29'44					
	193 Oct 29 j 06:38	0° \mathbb{M}		superior conj	194 Oct 18 j 10:53	24° \mathbb{M} 22'54	0°05'59
desc. node	193 Nov 01 j 11:30	5° \mathbb{M} 04'05		minimum elong	194 Oct 18 j 11:37	24° \mathbb{M} 25'51	0°05'53
				behind sun begin	194 Oct 18 j 01:32	23° \mathbb{M} 45'36	
superior conj	193 Nov 08 j 05:00	15° \mathbb{M} 39'52	-0°43'17	behind sun end	194 Oct 18 j 21:42	25° \mathbb{M} 06'04	
minimum elong	193 Nov 07 j 23:24	15° \mathbb{M} 17'54	0°42'34	desc. node	194 Oct 19 j 08:33	25° \mathbb{M} 49'17	
max. Earth dist.	193 Nov 08 j 12:09	16° \mathbb{M} 07'59	1.45045 AU		194 Oct 21 j 23:46	0° \mathbb{M}	
	193 Nov 17 j 07:32	0° \mathbb{M}		max. Earth dist.	194 Oct 22 j 07:01	0° \mathbb{M} 28'38	1.44782 AU
evening rise	193 Nov 24 j 03:32	10° \mathbb{M} 50'10		evening rise	194 Nov 03 j 22:14	20° \mathbb{M} 12'06	
greatest brilliancy	193 Dec 02 j 11:10	24° \mathbb{M} 04'09	-0.8m		194 Nov 10 j 06:42	0° \mathbb{M}	
	193 Dec 06 j 06:23	0° \mathbb{M}		greatest brilliancy	194 Nov 17 j 05:03	10° \mathbb{M} 31'29	-0.7m
evening max el	193 Dec 16 j 03:26	13° \mathbb{M} 20'00	18°59'53	evening max el	194 Nov 29 j 09:38	26° \mathbb{M} 47'43	19°50'25
asc. node	193 Dec 19 j 22:25	16° \mathbb{M} 22'37			194 Dec 03 j 05:27	0° \mathbb{M}	
retrograde	193 Dec 23 j 00:29	17° \mathbb{M} 14'24		retrograde	194 Dec 06 j 21:50	1° \mathbb{M} 10'43	
evening set	193 Dec 26 j 06:40	16° \mathbb{M} 13'01		asc. node	194 Dec 06 j 19:26	1° \mathbb{M} 10'40	
inferior conj	193 Dec 31 j 22:36	10° \mathbb{M} 26'33	3°19'20	evening set	194 Dec 10 j 11:35	29° \mathbb{M} 56'01	
minimum elong	193 Dec 31 j 20:03	10° \mathbb{M} 34'34	3°18'49		194 Dec 10 j 09:16	30° \mathbb{M}	
min. Earth dist.	194 Jan 02 j 11:58	8° \mathbb{M} 29'41	0.65630 AU	inferior conj	194 Dec 15 j 23:14	23° \mathbb{M} 55'33	2°46'23
morning rise	194 Jan 06 j 09:10	4° \mathbb{M} 16'37		minimum elong	194 Dec 15 j 20:28	24° \mathbb{M} 04'46	2°45'36
direct	194 Jan 12 j 21:52	1° \mathbb{M} 26'03		min. Earth dist.	194 Dec 16 j 22:46	22° \mathbb{M} 37'32	0.66668 AU
morning max el	194 Jan 25 j 20:29	9° \mathbb{M} 01'50	26°37'37	morning rise	194 Dec 21 j 05:08	17° \mathbb{M} 42'46	
desc. node	194 Jan 28 j 10:44	11° \mathbb{M} 46'29		direct	194 Dec 27 j 04:48	15° \mathbb{M} 03'20	
	194 Feb 11 j 08:04	0° \mathbb{M}		morning max el	195 Jan 08 j 05:34	22° \mathbb{M} 12'42	25°24'48
	194 Mar 01 j 07:40	0° \mathbb{M}		desc. node	195 Jan 15 j 07:47	0° \mathbb{M} 18'34	
morning set	194 Mar 02 j 20:16	2° \mathbb{M} 51'54			195 Jan 15 j 01:51	0° \mathbb{M}	
max. Earth dist.	194 Mar 07 j 02:11	11° \mathbb{M} 06'48	1.34690 AU		195 Feb 04 j 14:50	0° \mathbb{M}	
				morning set	195 Feb 13 j 11:51	15° \mathbb{M} 19'32	
superior conj	194 Mar 11 j 11:44	20° \mathbb{M} 02'11	-1°03'13	max. Earth dist.	195 Feb 17 j 05:32	22° \mathbb{M} 13'41	1.36346 AU
minimum elong	194 Mar 11 j 14:44	20° \mathbb{M} 17'43	1°02'40		195 Feb 21 j 06:35	0° \mathbb{M}	
	194 Mar 16 j 06:16	0° \mathbb{M}					
asc. node	194 Mar 17 j 21:44	3° \mathbb{M} 26'23		superior conj	195 Feb 23 j 03:08	3° \mathbb{M} 39'54	-1°27'46
evening rise	194 Mar 19 j 01:48	5° \mathbb{M} 52'12		minimum elong	195 Feb 23 j 06:57	3° \mathbb{M} 58'55	1°27'15
	194 Apr 01 j 10:58	0° \mathbb{M}		evening rise	195 Mar 03 j 06:34	20° \mathbb{M} 09'11	
evening max el	194 Apr 07 j 08:34	7° \mathbb{M} 02'05	21°00'37	asc. node	195 Mar 04 j 18:47	23° \mathbb{M} 11'18	
retrograde	194 Apr 18 j 23:23	12° \mathbb{M} 40'04			195 Mar 08 j 06:38	0° \mathbb{M}	
evening set	194 Apr 21 j 05:14	12° \mathbb{M} 28'14		evening max el	195 Mar 20 j 19:17	18° \mathbb{M} 31'46	19°48'05
desc. node	194 Apr 26 j 09:57	10° \mathbb{M} 42'13		retrograde	195 Mar 30 j 16:59	23° \mathbb{M} 17'06	
inferior conj	194 Apr 30 j 12:49	8° \mathbb{M} 29'46	-1°10'52	evening set	195 Apr 01 j 19:22	23° \mathbb{M} 05'13	
minimum elong	194 Apr 30 j 09:28	8° \mathbb{M} 34'31	1°09'40	inferior conj	195 Apr 10 j 13:12	19° \mathbb{M} 03'26	0°46'32
min. Earth dist.	194 May 01 j 05:32	8° \mathbb{M} 06'06	0.54999 AU	minimum elong	195 Apr 10 j 15:12	19° \mathbb{M} 00'20	0°45'50
morning rise	194 May 09 j 13:34	4° \mathbb{M} 25'10		min. Earth dist.	195 Apr 12 j 19:49	17° \mathbb{M} 39'00	0.55674 AU
direct	194 May 12 j 20:50	4° \mathbb{M} 01'38		desc. node	195 Apr 13 j 06:58	17° \mathbb{M} 22'14	
morning max el	194 May 25 j 19:24	10° \mathbb{M} 13'19	22°38'43	morning rise	195 Apr 19 j 08:38	14° \mathbb{M} 30'09	
	194 Jun 09 j 03:52	0° \mathbb{M}		direct	195 Apr 23 j 13:11	13° \mathbb{M} 51'11	
asc. node	194 Jun 13 j 20:57	8° \mathbb{M} 57'01		morning max el	195 May 07 j 11:20	20° \mathbb{M} 48'18	24°19'46
morning set	194 Jun 16 j 23:51	15° \mathbb{M} 20'38			195 May 15 j 08:40	0° \mathbb{M}	
	194 Jun 23 j 21:16	0° \mathbb{M}		asc. node	195 May 31 j 18:01	28° \mathbb{M} 46'00	
				morning set	195 Jun 01 j 11:44	0° \mathbb{M} 18'50	
superior conj	194 Jun 24 j 03:50	0° \mathbb{M} 34'52	1°29'57		195 Jun 01 j 08:09	0° \mathbb{M}	
minimum elong	194 Jun 24 j 01:29	0° \mathbb{M} 22'23	1°29'40				
max. Earth dist.	194 Jun 27 j 02:20	6° \mathbb{M} 45'11	1.34138 AU	superior conj	195 Jun 08 j 12:12	15° \mathbb{M} 26'23	1°13'45
evening rise	194 Jul 01 j 23:28	16° \mathbb{M} 37'25		minimum elong	195 Jun 08 j 09:44	15° \mathbb{M} 13'02	1°13'22
	194 Jul 09 j 03:14	0° \mathbb{M}		max. Earth dist.	195 Jun 10 j 05:56	19° \mathbb{M} 11'26	1.33153 AU
desc. node	194 Jul 23 j 09:15	22° \mathbb{M} 37'31			195 Jun 15 j 09:35	0° \mathbb{M}	
	194 Jul 28 j 23:03	0° \mathbb{M}		evening rise	195 Jun 15 j 20:08	0° \mathbb{M} 53'37	
evening max el	194 Aug 05 j 13:30	8° \mathbb{M} 25'13	27°11'56		195 Jul 02 j 02:27	0° \mathbb{M}	
retrograde	194 Aug 18 j 22:11	15° \mathbb{M} 44'16		desc. node	195 Jul 10 j 06:16	11° \mathbb{M} 36'43	
evening set	194 Aug 25 j 21:59	12° \mathbb{M} 58'41		evening max el	195 Jul 18 j 23:43	21° \mathbb{M} 29'27	27°25'28
min. Earth dist.	194 Aug 29 j 17:04	9° \mathbb{M} 20'17	0.64904 AU	retrograde	195 Aug 01 j 16:29	28° \mathbb{M} 48'56	
inferior conj	194 Aug 31 j 20:42	6° \mathbb{M} 56'59	-2°51'14	evening set	195 Aug 08 j 21:22	26° \mathbb{M} 11'34	





































































































































min. Earth dist.	195 Aug 12 j 11:49	23°Ω05'28	0.63320 AU	retrograde	196 Jul 14 j 03:57	11°Ω16'27	
inferior conj	195 Aug 15 j 04:28	20°Ω23'46	-3°41'25	evening set	196 Jul 21 j 05:05	9°Ω01'08	
minimum elong	195 Aug 15 j 09:19	20°Ω11'37	3°40'09	min. Earth dist.	196 Jul 24 j 20:20	6°Ω17'10	0.61433 AU
morning rise	195 Aug 21 j 22:26	15°Ω09'21		inferior conj	196 Jul 27 j 23:51	3°Ω30'17	-4°21'56
direct	195 Aug 24 j 11:18	14°Ω38'36		minimum elong	196 Jul 28 j 04:02	3°Ω21'00	4°21'14
asc. node	195 Aug 27 j 17:11	15°Ω29'48			196 Aug 01 j 09:23	30°℞☿	
morning max el	195 Aug 31 j 01:52	18°Ω04'04	17°53'21	morning rise	196 Aug 04 j 04:36	28°☿36'09	
	195 Sep 08 j 16:39	0°℞		direct	196 Aug 06 j 15:49	28°☿10'54	
morning set	195 Sep 16 j 15:05	13°℞40'11			196 Aug 11 j 16:29	0°Ω	
	195 Sep 26 j 02:26	0°Ω		morning max el	196 Aug 13 j 15:58	1°Ω40'37	17°58'47
				asc. node	196 Aug 13 j 14:15	1°Ω36'27	
superior conj	195 Sep 28 j 15:03	4°Ω13'34	0°49'18	morning set	196 Aug 29 j 14:13	26°Ω45'36	
minimum elong	195 Sep 28 j 19:36	4°Ω32'29	0°48'42		196 Aug 31 j 08:37	0°℞	
max. Earth dist.	195 Oct 04 j 23:07	14°Ω34'23	1.43823 AU				
desc. node	195 Oct 06 j 05:34	16°Ω36'18		superior conj	196 Sep 08 j 22:37	15°℞25'10	1°20'30
evening rise	195 Oct 14 j 05:27	29°Ω09'03		minimum elong	196 Sep 09 j 03:14	15°℞45'21	1°20'01
	195 Oct 14 j 18:39	0°℞		max. Earth dist.	196 Sep 16 j 10:42	28°℞10'51	1.42294 AU
	195 Nov 04 j 02:03	0°♂			196 Sep 17 j 13:11	0°Ω	
evening max el	195 Nov 12 j 10:22	10°♂16'05	20°54'45	desc. node	196 Sep 22 j 02:35	7°Ω21'58	
retrograde	195 Nov 20 j 19:25	15°♂13'59		evening rise	196 Sep 22 j 19:00	8°Ω27'05	
asc. node	195 Nov 23 j 16:27	14°♂27'12			196 Oct 06 j 23:28	0°℞	
evening set	195 Nov 24 j 18:45	13°♂44'05		evening max el	196 Oct 25 j 05:31	23°℞46'02	22°09'18
inferior conj	195 Nov 30 j 03:57	7°♂32'57	2°05'27	retrograde	196 Nov 03 j 15:28	29°℞21'53	
minimum elong	195 Nov 30 j 01:30	7°♂41'23	2°04'36	evening set	196 Nov 08 j 02:27	27°℞35'02	
min. Earth dist.	195 Nov 30 j 15:16	6°♂54'10	0.67337 AU	asc. node	196 Nov 09 j 13:28	26°℞13'04	
morning rise	195 Dec 05 j 08:03	1°♂19'22		inferior conj	196 Nov 13 j 10:46	21°℞16'44	1°18'29
	195 Dec 07 j 02:57	30°℞℞		minimum elong	196 Nov 13 j 09:03	21°℞22'40	1°17'48
direct	195 Dec 10 j 16:52	28°℞58'31		min. Earth dist.	196 Nov 13 j 11:01	21°℞15'50	0.67659 AU
	195 Dec 14 j 14:41	0°♂		morning rise	196 Nov 18 j 15:30	15°℞04'37	
morning max el	195 Dec 21 j 13:57	5°♂27'57	23°59'28	direct	196 Nov 23 j 09:15	13°℞05'55	
desc. node	196 Jan 02 j 04:48	19°♂34'02		morning max el	196 Dec 03 j 00:28	18°℞48'16	22°31'42
	196 Jan 09 j 12:56	0°☿			196 Dec 12 j 08:27	0°♂	
morning set	196 Jan 26 j 05:22	26°☿37'59		desc. node	196 Dec 19 j 01:50	9°♂20'55	
	196 Jan 28 j 03:55	0°≈			197 Jan 01 j 17:11	0°☿	
max. Earth dist.	196 Jan 30 j 00:56	3°≈18'46	1.38355 AU	morning set	197 Jan 05 j 19:00	6°☿33'46	
				max. Earth dist.	197 Jan 10 j 21:02	15°☿01'50	1.40493 AU
superior conj	196 Feb 06 j 06:12	16°≈36'44	-1°47'54				
minimum elong	196 Feb 06 j 09:53	16°≈54'13	1°47'36	superior conj	197 Jan 18 j 16:27	28°☿41'58	-2°00'18
	196 Feb 13 j 03:43	0°℞		minimum elong	197 Jan 18 j 18:17	28°☿50'16	2°00'15
evening rise	196 Feb 15 j 04:25	3°℞59'22			197 Jan 19 j 09:42	0°≈	
asc. node	196 Feb 19 j 15:48	12°℞37'00		evening rise	197 Jan 28 j 16:22	17°≈16'10	
	196 Mar 02 j 01:08	0°℞			197 Feb 04 j 14:17	0°℞	
evening max el	196 Mar 02 j 16:40	0°℞38'48	18°54'45	asc. node	197 Feb 05 j 12:49	1°℞37'23	
retrograde	196 Mar 11 j 01:18	4°℞41'14		evening max el	197 Feb 13 j 22:09	13°℞17'00	18°21'22
evening set	196 Mar 13 j 07:59	4°℞24'27		retrograde	197 Feb 21 j 04:36	16°℞52'54	
inferior conj	196 Mar 21 j 06:52	0°℞07'30	2°20'08	evening set	197 Feb 23 j 16:42	16°℞28'26	
minimum elong	196 Mar 21 j 11:10	29°℞59'48	2°18'57	inferior conj	197 Mar 02 j 21:37	11°℞50'53	3°18'43
	196 Mar 21 j 11:03	30°℞℞		minimum elong	197 Mar 03 j 00:59	11°℞43'48	3°18'08
min. Earth dist.	196 Mar 24 j 12:04	27°℞50'22	0.57156 AU	min. Earth dist.	197 Mar 06 j 07:59	9°℞00'03	0.59132 AU
morning rise	196 Mar 29 j 11:19	25°℞01'15		morning rise	197 Mar 10 j 06:53	6°℞18'09	
desc. node	196 Mar 30 j 04:00	24°℞44'52		direct	197 Mar 16 j 13:52	4°℞32'56	
direct	196 Apr 03 j 19:01	23°℞53'13		desc. node	197 Mar 17 j 01:02	4°℞33'30	
	196 Apr 16 j 15:55	0°℞		morning max el	197 Mar 30 j 21:36	12°℞15'10	27°04'47
morning max el	196 Apr 18 j 02:20	1°℞19'51	25°53'29		197 Apr 13 j 20:04	0°℞	
	196 May 08 j 06:20	0°♂		morning set	197 Apr 30 j 08:51	0°♂05'07	
morning set	196 May 15 j 23:17	15°♂15'35			197 Apr 30 j 07:52	0°♂	
asc. node	196 May 17 j 15:04	18°♂47'01		asc. node	197 May 04 j 12:07	8°♂55'06	
superior conj	196 May 22 j 23:08	0°℞24'24	0°53'46	superior conj	197 May 07 j 10:53	15°♂22'30	0°30'47
minimum elong	196 May 22 j 21:03	0°℞12'57	0°53'22	minimum elong	197 May 07 j 09:34	15°♂15'12	0°30'31
	196 May 22 j 18:41	0°℞		max. Earth dist.	197 May 07 j 04:29	14°♂47'20	1.32315 AU
max. Earth dist.	196 May 23 j 15:48	1°℞55'37	1.32549 AU	evening rise	197 May 14 j 08:36	0°℞20'25	
evening rise	196 May 30 j 00:01	15°℞30'52			197 May 14 j 04:43	0°℞	
	196 Jun 06 j 09:09	0°☿			197 May 30 j 14:50	0°☿	
desc. node	196 Jun 26 j 03:17	29°☿41'15		evening max el	197 Jun 12 j 06:18	15°☿45'55	26°15'46
	196 Jun 26 j 09:54	0°Ω		desc. node	197 Jun 13 j 00:18	16°☿27'56	
evening max el	196 Jun 30 j 06:08	3°Ω59'48	27°07'01	retrograde	197 Jun 26 j 06:45	22°☿58'50	

evening set	197 Jul 02 j 16:25	21°☿17'42		desc. node	198 May 30 j 21:20	1°☿25'49	
min. Earth dist.	197 Jul 06 j 19:12	18°☿40'08	0.59382 AU	retrograde	198 Jun 07 j 23:19	3°☿54'30	
inferior conj	197 Jul 10 j 03:13	16°☿06'29	-4°44'51	evening set	198 Jun 13 j 04:37	2°☿52'10	
minimum elong	197 Jul 10 j 04:44	16°☿03'33	4°44'46	min. Earth dist.	198 Jun 18 j 11:08	0°☿03'15	0.57411 AU
morning rise	197 Jul 17 j 19:10	11°☿34'49			198 Jun 18 j 13:09	30°☿II	
direct	197 Jul 20 j 07:02	11°☿13'06		inferior conj	198 Jun 21 j 11:20	28°II03'04	-4°38'37
morning max el	197 Jul 28 j 01:16	14°☿56'45	18°24'00	minimum elong	198 Jun 21 j 08:16	28°II08'12	4°38'22
asc. node	197 Jul 31 j 11:18	18°☿50'26		morning rise	198 Jun 29 j 14:41	23°II53'10	
	197 Aug 07 j 12:02	0°☿		direct	198 Jul 02 j 04:35	23°II33'56	
morning set	197 Aug 13 j 02:52	10°☿30'24		morning max el	198 Jul 11 j 02:52	27°II43'58	19°10'00
					198 Jul 13 j 07:01	0°☿	
superior conj	197 Aug 22 j 06:03	27°☿47'34	1°39'00	asc. node	198 Jul 18 j 08:23	6°☿57'24	
minimum elong	197 Aug 22 j 08:50	28°☿00'26	1°38'49	morning set	198 Jul 28 j 01:05	24°☿44'12	
	197 Aug 23 j 10:56	0°☿			198 Jul 30 j 16:36	0°☿	
max. Earth dist.	197 Aug 29 j 17:12	11°☿06'47	1.40395 AU				
evening rise	197 Sep 03 j 04:59	18°☿42'18		superior conj	198 Aug 05 j 07:43	11°☿05'24	1°46'32
desc. node	197 Sep 08 j 23:37	28°☿02'19		minimum elong	198 Aug 05 j 08:24	11°☿08'42	1°46'32
	197 Sep 10 j 05:37	0°☿		max. Earth dist.	198 Aug 11 j 20:30	23°☿21'21	1.38372 AU
	197 Oct 01 j 09:19	0°☿		evening rise	198 Aug 15 j 15:49	0°☿07'53	
evening max el	197 Oct 07 j 20:03	7°☿17'46	23°29'05		198 Aug 15 j 14:01	0°☿	
retrograde	197 Oct 18 j 08:35	13°☿30'45		desc. node	198 Aug 26 j 20:38	18°☿33'23	
evening set	197 Oct 23 j 09:00	11°☿25'53			198 Sep 03 j 13:12	0°☿	
asc. node	197 Oct 27 j 10:31	6°☿50'32		evening max el	198 Sep 20 j 08:00	20°☿52'41	24°47'40
inferior conj	197 Oct 28 j 17:50	5°☿04'04	0°26'57	retrograde	198 Oct 01 j 21:51	27°☿37'10	
minimum elong	197 Oct 28 j 17:12	5°☿06'15	0°26'40	evening set	198 Oct 07 j 12:44	25°☿14'56	
min. Earth dist.	197 Oct 28 j 07:36	5°☿39'04	0.67651 AU	min. Earth dist.	198 Oct 12 j 02:41	20°☿02'18	0.67319 AU
	197 Nov 01 j 20:23	30°☿☿		inferior conj	198 Oct 12 j 23:28	18°☿53'26	-0°27'43
morning rise	197 Nov 03 j 01:20	28°☿55'48		minimum elong	198 Oct 13 j 00:09	18°☿51'09	0°27'26
direct	197 Nov 07 j 04:53	27°☿19'38		asc. node	198 Oct 14 j 07:35	17°☿08'33	
	197 Nov 13 j 04:47	0°☿		morning rise	198 Oct 18 j 11:40	12°☿51'29	
morning max el	197 Nov 15 j 16:44	2°☿17'04	21°09'39	direct	198 Oct 22 j 02:38	11°☿35'51	
desc. node	197 Dec 05 j 22:52	29°☿29'50		morning max el	198 Oct 29 j 16:39	15°☿56'36	19°58'47
	197 Dec 06 j 06:56	0°☿			198 Nov 09 j 14:29	0°☿	
morning set	197 Dec 16 j 04:47	15°☿12'03		desc. node	198 Nov 22 j 19:54	19°☿54'28	
max. Earth dist.	197 Dec 23 j 23:59	27°☿41'32	1.42450 AU	morning set	198 Nov 25 j 01:10	23°☿19'51	
	197 Dec 25 j 09:42	0°☿			198 Nov 29 j 08:13	0°☿	
				max. Earth dist.	198 Dec 06 j 10:22	11°☿10'59	1.43964 AU
superior conj	197 Dec 31 j 04:24	9°☿42'10	-2°00'38				
minimum elong	197 Dec 31 j 02:14	9°☿32'51	2°00'35	superior conj	198 Dec 11 j 13:47	19°☿28'12	-1°44'21
evening rise	198 Jan 11 j 14:42	29°☿51'32		minimum elong	198 Dec 11 j 06:48	18°☿59'46	1°43'50
	198 Jan 11 j 16:34	0°☿			198 Dec 17 j 22:49	0°☿	
asc. node	198 Jan 23 j 09:50	20°☿04'34		evening rise	198 Dec 24 j 19:04	11°☿36'40	
evening max el	198 Jan 28 j 08:36	26°☿17'49	18°07'55		199 Jan 04 j 17:37	0°☿	
retrograde	198 Feb 04 j 00:40	29°☿43'11		asc. node	199 Jan 10 j 06:53	7°☿47'59	
evening set	198 Feb 06 j 17:22	29°☿09'45		evening max el	199 Jan 11 j 21:03	9°☿32'52	18°13'47
inferior conj	198 Feb 13 j 07:43	24°☿10'52	3°45'37	retrograde	199 Jan 18 j 08:43	13°☿01'05	
minimum elong	198 Feb 13 j 08:55	24°☿07'58	3°45'32	evening set	199 Jan 21 j 05:55	12°☿17'48	
min. Earth dist.	198 Feb 16 j 10:44	21°☿10'54	0.61237 AU	inferior conj	199 Jan 27 j 09:16	6°☿58'55	3°48'23
morning rise	198 Feb 19 j 22:56	18°☿20'29		minimum elong	199 Jan 27 j 08:27	7°☿01'09	3°48'20
direct	198 Feb 26 j 19:25	16°☿00'31		min. Earth dist.	199 Jan 29 j 22:44	4°☿12'08	0.63198 AU
desc. node	198 Mar 03 j 22:04	17°☿10'50		morning rise	199 Feb 02 j 10:09	0°☿57'45	
morning max el	198 Mar 12 j 23:24	23°☿50'56	27°42'46		199 Feb 03 j 18:46	30°☿☿	
	198 Mar 18 j 12:40	0°☿		direct	199 Feb 09 j 09:47	28°☿14'08	
	198 Apr 07 j 01:25	0°☿			199 Feb 15 j 12:18	0°☿	
morning set	198 Apr 14 j 14:36	14°☿41'20		desc. node	199 Feb 18 j 19:07	2°☿09'40	
max. Earth dist.	198 Apr 20 j 16:08	27°☿33'28	1.32450 AU	morning max el	199 Feb 23 j 06:27	6°☿06'54	27°43'32
asc. node	198 Apr 21 j 09:10	29°☿06'11			199 Mar 13 j 10:33	0°☿	
				morning set	199 Mar 29 j 14:11	28°☿55'32	
superior conj	198 Apr 21 j 21:49	0°☿15'13	0°05'36		199 Mar 30 j 03:00	0°☿	
minimum elong	198 Apr 21 j 21:33	0°☿13'49	0°05'33	max. Earth dist.	199 Apr 03 j 22:35	9°☿58'53	1.32975 AU
behind sun begin	198 Apr 21 j 16:46	29°☿47'41					
behind sun end	198 Apr 22 j 02:20	0°☿39'58		superior conj	199 Apr 06 j 06:06	14°☿55'42	-0°21'03
	198 Apr 21 j 19:02	0°☿		minimum elong	199 Apr 06 j 07:07	15°☿01'08	0°20'49
evening rise	198 Apr 28 j 19:46	15°☿15'05		asc. node	199 Apr 08 j 06:12	19°☿15'25	
	198 May 06 j 04:57	0°☿		evening rise	199 Apr 13 j 07:34	0°☿07'11	
evening max el	198 May 24 j 23:39	26°☿48'10	24°57'13		199 Apr 13 j 06:12	0°☿	
	198 May 28 j 17:54	0°☿			199 Apr 30 j 04:33	0°☿	

evening max el	199 May 06 j 13:56	7° Π 23'29	23°23'37	retrograde	200 Apr 29 j 20:42	24° \mathcal{B} 09'57	
desc. node	199 May 17 j 18:23	13° Π 57'28		evening set	200 May 02 j 10:49	23° \mathcal{B} 54'58	
retrograde	199 May 20 j 03:51	14° Π 10'31		desc. node	200 May 03 j 15:24	23° \mathcal{B} 38'31	
evening set	199 May 23 j 21:51	13° Π 39'35		inferior conj	200 May 11 j 20:48	19° \mathcal{B} 51'16	-2°17'56
min. Earth dist.	199 May 31 j 00:04	10° Π 25'01	0.55851 AU	minimum elong	200 May 11 j 14:41	19° \mathcal{B} 59'52	2°15'57
inferior conj	199 Jun 01 j 23:25	9° Π 14'54	-3°50'42	min. Earth dist.	200 May 11 j 12:52	20° \mathcal{B} 02'24	0.55044 AU
minimum elong	199 Jun 01 j 16:28	9° Π 25'15	3°49'09	morning rise	200 May 20 j 19:38	15° \mathcal{B} 55'05	
morning rise	199 Jun 10 j 13:50	5° Π 19'28		direct	200 May 23 j 19:18	15° \mathcal{B} 35'20	
direct	199 Jun 13 j 06:38	5° Π 01'35		morning max el	200 Jun 04 j 22:22	21° \mathcal{B} 17'44	21°42'53
morning max el	199 Jun 23 j 18:14	9° Π 52'31	20°17'00		200 Jun 12 j 06:26	0° Π	
asc. node	199 Jul 05 j 05:27	25° Π 44'12		asc. node	200 Jun 21 j 02:30	15° Π 01'12	
	199 Jul 07 j 12:58	0° \mathcal{E}		morning set	200 Jun 25 j 14:47	24° Π 06'00	
morning set	199 Jul 12 j 05:49	9° \mathcal{E} 18'10			200 Jun 28 j 10:20	0° \mathcal{E}	
superior conj	199 Jul 19 j 22:27	25° \mathcal{E} 02'59	1°45'18	superior conj	200 Jul 02 j 22:17	9° \mathcal{E} 28'30	1°37'10
minimum elong	199 Jul 19 j 21:28	24° \mathcal{E} 57'57	1°45'16	minimum elong	200 Jul 02 j 20:14	9° \mathcal{E} 17'52	1°37'00
	199 Jul 22 j 09:55	0° \mathcal{O}		max. Earth dist.	200 Jul 06 j 14:54	17° \mathcal{E} 04'51	1.34883 AU
max. Earth dist.	199 Jul 25 j 01:48	5° \mathcal{O} 11'22	1.36473 AU	evening rise	200 Jul 11 j 03:08	25° \mathcal{E} 58'54	
evening rise	199 Jul 29 j 00:48	12° \mathcal{O} 37'37			200 Jul 13 j 06:04	0° \mathcal{O}	
	199 Aug 08 j 02:18	0° \mathcal{N}		desc. node	200 Jul 30 j 14:44	28° \mathcal{O} 44'12	
desc. node	199 Aug 13 j 17:41	8° \mathcal{N} 49'44			200 Jul 31 j 11:49	0° \mathcal{N}	
	199 Aug 29 j 13:29	0° \mathcal{A}		evening max el	200 Aug 15 j 07:30	18° \mathcal{N} 03'28	26°51'34
evening max el	199 Sep 02 j 19:30	4° \mathcal{A} 29'51	25°57'48	retrograde	200 Aug 28 j 10:05	25° \mathcal{N} 20'16	
retrograde	199 Sep 15 j 06:38	11° \mathcal{A} 36'04		evening set	200 Sep 04 j 03:59	22° \mathcal{N} 35'46	
evening set	199 Sep 21 j 11:49	8° \mathcal{A} 59'38		min. Earth dist.	200 Sep 08 j 02:54	18° \mathcal{N} 36'08	0.65640 AU
min. Earth dist.	199 Sep 25 j 17:55	4° \mathcal{A} 22'59	0.66653 AU	inferior conj	200 Sep 09 j 22:58	16° \mathcal{N} 27'16	-2°20'03
inferior conj	199 Sep 27 j 01:52	2° \mathcal{A} 42'32	-1°23'59	minimum elong	200 Sep 10 j 02:31	16° \mathcal{N} 16'53	2°18'43
minimum elong	199 Sep 27 j 04:00	2° \mathcal{A} 35'48	1°23'06	morning rise	200 Sep 16 j 01:37	10° \mathcal{N} 46'32	
	199 Sep 29 j 07:31	30° \mathcal{R} \mathcal{N}		asc. node	200 Sep 17 j 01:42	10° \mathcal{N} 20'29	
asc. node	199 Oct 01 j 04:39	28° \mathcal{N} 04'51		direct	200 Sep 18 j 22:09	10° \mathcal{N} 01'26	
morning rise	199 Oct 02 j 20:30	26° \mathcal{N} 49'40		morning max el	200 Sep 25 j 12:25	13° \mathcal{N} 37'41	18°21'57
direct	199 Oct 06 j 01:03	25° \mathcal{N} 51'11			200 Oct 07 j 05:15	0° \mathcal{A}	
morning max el	199 Oct 12 j 23:52	29° \mathcal{N} 45'08	19°02'20	morning set	200 Oct 14 j 20:03	12° \mathcal{A} 20'34	
	199 Oct 13 j 05:41	0° \mathcal{A}			200 Oct 25 j 19:34	0° \mathcal{M}	
	199 Nov 03 j 00:08	0° \mathcal{M}		desc. node	200 Oct 26 j 13:59	1° \mathcal{M} 13'06	
morning set	199 Nov 04 j 09:05	2° \mathcal{M} 09'09		superior conj	200 Oct 29 j 23:58	6° \mathcal{M} 37'16	-0°22'23
desc. node	199 Nov 09 j 16:56	10° \mathcal{M} 30'20		minimum elong	200 Oct 29 j 21:02	6° \mathcal{M} 25'42	0°21'58
max. Earth dist.	199 Nov 19 j 02:10	25° \mathcal{M} 14'15	1.44852 AU	max. Earth dist.	200 Oct 31 j 20:44	9° \mathcal{M} 33'33	1.45022 AU
superior conj	199 Nov 20 j 23:16	28° \mathcal{M} 12'01	-1°09'44		200 Nov 13 j 21:38	0° \mathcal{J}	
minimum elong	199 Nov 20 j 15:17	27° \mathcal{M} 40'31	1°08'49	evening rise	200 Nov 15 j 08:01	2° \mathcal{J} 14'48	
	199 Nov 22 j 02:35	0° \mathcal{J}		greatest brilliancy	200 Nov 26 j 01:46	19° \mathcal{J} 01'26	-0.8m
evening rise	199 Dec 06 j 01:25	22° \mathcal{J} 24'52			200 Dec 03 j 12:20	0° \mathcal{Z}	
	199 Dec 10 j 16:47	0° \mathcal{Z}		evening max el	200 Dec 08 j 17:45	6° \mathcal{Z} 23'54	19°19'33
evening max el	199 Dec 26 j 08:54	22° \mathcal{Z} 56'33	18°38'06	asc. node	200 Dec 14 j 00:59	10° \mathcal{Z} 11'04	
asc. node	199 Dec 28 j 03:56	24° \mathcal{Z} 35'14		retrograde	200 Dec 15 j 20:26	10° \mathcal{Z} 29'15	
retrograde	200 Jan 02 j 00:28	26° \mathcal{Z} 38'35		evening set	200 Dec 19 j 05:37	9° \mathcal{Z} 22'28	
evening set	200 Jan 05 j 02:56	25° \mathcal{Z} 44'21		inferior conj	200 Dec 24 j 19:31	3° \mathcal{Z} 29'58	3°06'26
inferior conj	200 Jan 10 j 22:21	20° \mathcal{Z} 07'29	3°33'42	minimum elong	200 Dec 24 j 16:48	3° \mathcal{Z} 38'44	3°05'47
minimum elong	200 Jan 10 j 20:12	20° \mathcal{Z} 13'53	3°33'23	min. Earth dist.	200 Dec 26 j 02:53	1° \mathcal{Z} 49'11	0.66126 AU
min. Earth dist.	200 Jan 12 j 20:27	17° \mathcal{Z} 49'33	0.64852 AU		200 Dec 27 j 14:17	30° \mathcal{R} \mathcal{J}	
morning rise	200 Jan 16 j 13:02	13° \mathcal{Z} 59'56		morning rise	200 Dec 30 j 03:44	27° \mathcal{J} 18'41	
direct	200 Jan 23 j 07:35	11° \mathcal{Z} 07'32		direct	201 Jan 05 j 11:24	24° \mathcal{J} 31'23	
morning max el	200 Feb 05 j 15:55	18° \mathcal{Z} 53'24	27°09'50		201 Jan 16 j 00:13	0° \mathcal{Z}	
desc. node	200 Feb 05 j 16:09	18° \mathcal{Z} 53'58		morning max el	201 Jan 18 j 01:15	1° \mathcal{Z} 57'25	26°08'40
	200 Feb 15 j 02:38	0° \approx		desc. node	201 Jan 22 j 13:10	6° \mathcal{Z} 53'03	
	200 Mar 05 j 09:23	0° \mathcal{H}			201 Feb 08 j 05:48	0° \approx	
morning set	200 Mar 12 j 04:39	12° \mathcal{H} 38'26		morning set	201 Feb 23 j 05:59	25° \approx 37'21	
max. Earth dist.	200 Mar 16 j 19:50	21° \mathcal{H} 52'07	1.33933 AU		201 Feb 25 j 13:43	0° \mathcal{H}	
				max. Earth dist.	201 Feb 27 j 05:25	3° \mathcal{H} 11'15	1.35346 AU
superior conj	200 Mar 20 j 09:50	29° \mathcal{H} 18'00	-0°48'02	superior conj	201 Mar 04 j 06:34	13° \mathcal{H} 14'26	-1°14'00
minimum elong	200 Mar 20 j 12:09	29° \mathcal{H} 30'12	0°47'34	minimum elong	201 Mar 04 j 10:00	13° \mathcal{H} 31'52	1°13'27
	200 Mar 20 j 17:49	0° \mathcal{Y}		evening rise	201 Mar 12 j 01:44	29° \mathcal{H} 19'16	
asc. node	200 Mar 25 j 03:16	9° \mathcal{Y} 18'55		asc. node	201 Mar 12 j 00:19	29° \mathcal{H} 11'59	
evening rise	200 Mar 27 j 18:13	14° \mathcal{Y} 50'48			201 Mar 12 j 09:41	0° \mathcal{Y}	
	200 Apr 04 j 11:10	0° \mathcal{B}		evening max el	201 Mar 30 j 12:36	29° \mathcal{Y} 11'00	20°27'33
evening max el	200 Apr 17 j 08:23	18° \mathcal{B} 02'53	21°49'51				

	201 Mar 31 j 09:47	0°♄			202 Mar 04 j 23:51	0°♅	
retrograde	201 Apr 10 j 09:48	4°♄25'28		evening max el	202 Mar 13 j 04:04	10°♅56'56	19°22'51
evening set	201 Apr 12 j 12:49	4°♄14'19		retrograde	202 Mar 22 j 08:41	15°♅22'15	
desc. node	201 Apr 20 j 12:23	0°♄56'19		evening set	202 Mar 24 j 12:38	15°♅08'37	
inferior conj	201 Apr 21 j 15:48	0°♄16'42	-0°19'42	inferior conj	202 Apr 01 j 22:32	11°♅01'04	1°30'19
minimum elong	201 Apr 21 j 14:53	0°♄18'03	0°19'22	minimum elong	202 Apr 02 j 01:59	10°♅55'23	1°29'13
	201 Apr 22 j 03:16	30°♅		min. Earth dist.	202 Apr 04 j 16:49	9°♅12'52	0.56224 AU
min. Earth dist.	201 Apr 23 j 02:13	29°♅26'41	0.55177 AU	desc. node	202 Apr 07 j 09:24	7°♅37'38	
morning rise	201 Apr 30 j 15:39	26°♅01'30		morning rise	202 Apr 10 j 12:34	6°♅13'53	
direct	201 May 04 j 07:06	25°♅32'43		direct	202 Apr 15 j 04:33	5°♅24'17	
	201 May 15 j 07:21	0°♄		morning max el	202 Apr 29 j 07:54	12°♅35'06	25°01'35
morning max el	201 May 17 j 17:11	2°♄05'19	23°21'37		202 May 12 j 18:51	0°♄	
	201 Jun 05 j 15:22	0°♂		morning set	202 May 25 j 14:02	24°♄01'05	
asc. node	201 Jun 07 j 23:33	4°♂40'45		asc. node	202 May 25 j 20:36	24°♄35'42	
morning set	201 Jun 10 j 02:06	9°♂02'26			202 May 28 j 09:12	0°♂	
superior conj	201 Jun 17 j 04:13	24°♂13'02	1°23'36	superior conj	202 Jun 01 j 13:53	9°♂08'08	1°05'41
minimum elong	201 Jun 17 j 01:45	23°♂59'49	1°23'16	minimum elong	202 Jun 01 j 11:31	8°♂55'17	1°05'17
max. Earth dist.	201 Jun 19 j 13:50	29°♂19'40	1.33673 AU	max. Earth dist.	202 Jun 02 j 20:45	11°♂55'57	1.32851 AU
	201 Jun 19 j 21:30	0°♄		evening rise	202 Jun 08 j 18:20	24°♂25'16	
evening rise	201 Jun 24 j 18:15	9°♄58'52			202 Jun 11 j 12:55	0°♄	
	201 Jul 05 j 15:01	0°♂			202 Jun 29 j 06:12	0°♂	
desc. node	201 Jul 17 j 11:45	18°♂07'31		desc. node	202 Jul 04 j 08:46	6°♂45'54	
	201 Jul 27 j 09:23	0°♄		evening max el	202 Jul 11 j 04:06	14°♂14'38	27°21'40
evening max el	201 Jul 28 j 19:10	1°♄23'15	27°21'31	retrograde	202 Jul 24 j 22:51	21°♂32'27	
retrograde	201 Aug 11 j 07:42	8°♄42'19		evening set	202 Aug 01 j 03:40	19°♂02'39	
evening set	201 Aug 18 j 10:27	5°♄59'01		min. Earth dist.	202 Aug 04 j 17:32	16°♂07'50	0.62553 AU
min. Earth dist.	201 Aug 22 j 03:19	2°♄34'58	0.64270 AU	inferior conj	202 Aug 07 j 15:18	13°♂22'07	-4°00'10
inferior conj	201 Aug 24 j 12:25	0°♄02'58	-3°13'22	minimum elong	202 Aug 07 j 20:04	13°♂10'45	3°59'06
minimum elong	201 Aug 24 j 17:01	29°♂50'42	3°11'56	morning rise	202 Aug 14 j 13:47	8°♂16'02	
	201 Aug 24 j 13:31	30°♅		direct	202 Aug 17 j 01:46	7°♂47'48	
morning rise	201 Aug 31 j 00:27	24°♂37'49		asc. node	202 Aug 21 j 19:46	9°♂32'04	
direct	201 Sep 02 j 15:30	24°♂02'35		morning max el	202 Aug 23 j 19:16	11°♂13'35	17°53'23
asc. node	201 Sep 03 j 22:44	24°♂11'20			202 Sep 05 j 08:23	0°♄	
morning max el	201 Sep 09 j 03:50	27°♂29'29	17°58'41	morning set	202 Sep 08 j 23:51	6°♄29'28	
	201 Sep 11 j 09:24	0°♄					
morning set	201 Sep 26 j 10:51	23°♄53'25		superior conj	202 Sep 20 j 05:39	26°♄10'11	1°04'09
	201 Sep 30 j 01:19	0°♂		minimum elong	202 Sep 20 j 10:36	26°♄31'09	1°03'33
					202 Sep 22 j 12:15	0°♂	
superior conj	201 Oct 09 j 13:49	15°♂45'01	0°25'36	max. Earth dist.	202 Sep 27 j 05:59	7°♂48'27	1.43233 AU
minimum elong	201 Oct 09 j 16:40	15°♂56'37	0°25'12	desc. node	202 Sep 30 j 08:05	12°♂46'35	
desc. node	201 Oct 13 j 11:02	21°♂59'46		evening rise	202 Oct 05 j 03:41	20°♂22'06	
max. Earth dist.	201 Oct 14 j 15:11	23°♂51'46	1.44459 AU		202 Oct 11 j 10:17	0°♄	
	201 Oct 18 j 12:29	0°♄			202 Nov 01 j 19:23	0°♄	
evening rise	201 Oct 25 j 20:02	11°♄22'05		evening max el	202 Nov 04 j 20:06	3°♄21'28	21°25'26
	201 Nov 07 j 02:22	0°♄		retrograde	202 Nov 13 j 15:15	8°♄35'23	
evening max el	201 Nov 21 j 21:50	19°♄52'40	20°16'14	evening set	202 Nov 17 j 19:22	6°♄58'13	
retrograde	201 Nov 29 j 18:03	24°♄29'19		asc. node	202 Nov 17 j 19:00	6°♄58'56	
asc. node	201 Nov 30 j 22:00	24°♄21'37		inferior conj	202 Nov 23 j 04:00	0°♄43'24	1°46'12
evening set	201 Dec 03 j 11:44	23°♄08'13		minimum elong	202 Nov 23 j 01:48	0°♄50'57	1°45'22
inferior conj	201 Dec 08 j 22:09	17°♄02'53	2°29'51	min. Earth dist.	202 Nov 23 j 10:24	0°♄21'18	0.67513 AU
minimum elong	201 Dec 08 j 19:27	17°♄11'59	2°29'00		202 Nov 23 j 16:35	30°♅	
min. Earth dist.	201 Dec 09 j 16:16	16°♄01'49	0.67006 AU	morning rise	202 Nov 28 j 08:06	24°♄30'19	
morning rise	201 Dec 14 j 02:59	10°♄49'46		direct	202 Dec 03 j 10:22	22°♄18'56	
direct	201 Dec 19 j 20:33	8°♄17'39		morning max el	202 Dec 13 j 18:52	28°♄28'36	23°22'01
morning max el	201 Dec 31 j 09:47	15°♄10'28	24°49'22		202 Dec 15 j 05:51	0°♄	
desc. node	202 Jan 09 j 10:13	25°♄45'27		desc. node	202 Dec 27 j 07:16	15°♄15'51	
	202 Jan 12 j 14:19	0°♄			203 Jan 06 j 08:21	0°♄	
	202 Feb 01 j 03:22	0°♄		morning set	203 Jan 17 j 19:19	18°♄23'00	
morning set	202 Feb 05 j 12:57	7°♄37'29		max. Earth dist.	203 Jan 22 j 00:06	25°♄34'26	1.39265 AU
max. Earth dist.	202 Feb 09 j 04:50	14°♄14'17	1.37177 AU		203 Jan 24 j 12:20	0°♄	
superior conj	202 Feb 15 j 17:14	26°♄36'21	-1°37'02	superior conj	203 Jan 29 j 13:51	9°♄13'28	-1°54'21
minimum elong	202 Feb 15 j 21:09	26°♄55'29	1°36'35	minimum elong	203 Jan 29 j 17:00	9°♄28'09	1°54'09
	202 Feb 17 j 10:41	0°♄		evening rise	203 Feb 07 j 22:03	27°♄04'10	
evening rise	202 Feb 24 j 03:54	13°♄26'05			203 Feb 09 j 10:34	0°♄	
asc. node	202 Feb 26 j 21:20	18°♄49'37		asc. node	203 Feb 13 j 18:21	8°♄06'10	

evening max el	203 Feb 24 j 05:15	23° H 18'44	18°38'02	evening max el	204 Feb 07 j 13:14	6° H 07'49	18°13'17
retrograde	203 Mar 04 j 01:30	27° H 08'18		retrograde	204 Feb 14 j 12:23	9° H 37'33	
evening set	203 Mar 06 j 10:22	26° H 48'36		evening set	204 Feb 17 j 02:24	9° H 09'32	
inferior conj	203 Mar 14 j 01:16	22° H 22'58	2°49'15	inferior conj	204 Feb 24 j 00:43	4° H 23'09	3°33'32
minimum elong	203 Mar 14 j 05:28	22° H 14'55	2°48'17	minimum elong	204 Feb 24 j 03:12	4° H 17'34	3°33'12
min. Earth dist.	203 Mar 17 j 10:26	19° H 48'43	0.57953 AU	min. Earth dist.	204 Feb 27 j 09:14	1° H 25'03	0.60026 AU
morning rise	203 Mar 21 j 21:41	17° H 04'02			204 Feb 29 j 03:47	30° R \approx	
desc. node	203 Mar 25 j 06:25	15° H 55'25		morning rise	204 Mar 02 j 01:55	28° \approx 41'38	
direct	203 Mar 27 j 15:56	15° H 40'54		direct	204 Mar 08 j 15:56	26° \approx 40'26	
morning max el	203 Apr 11 j 00:34	23° H 15'40	26°27'24	desc. node	204 Mar 11 j 03:28	26° \approx 56'54	
	203 Apr 17 j 01:35	0° Y			204 Mar 17 j 15:50	0° H	
	203 May 05 j 15:30	0° B		morning max el	204 Mar 22 j 22:42	4° H 27'48	27°25'17
morning set	203 May 10 j 01:00	8° B 56'15			204 Apr 10 j 19:14	0° Y	
asc. node	203 May 12 j 17:40	14° B 40'46		morning set	204 Apr 23 j 09:12	23° Y 41'06	
					204 Apr 26 j 08:58	0° B	
superior conj	203 May 17 j 01:25	24° B 07'26	0°44'20	asc. node	204 Apr 28 j 14:43	4° B 50'44	
minimum elong	203 May 16 j 23:36	23° B 57'29	0°43'59	max. Earth dist.	204 Apr 29 j 20:52	7° B 35'31	1.32325 AU
max. Earth dist.	203 May 17 j 08:19	24° B 45'21	1.32405 AU				
	203 May 19 j 17:50	0° II		superior conj	204 Apr 30 j 13:03	9° B 04'12	0°20'20
evening rise	203 May 24 j 00:31	9° II 08'55		minimum elong	204 Apr 30 j 12:09	8° B 59'14	0°20'09
	203 Jun 03 j 21:41	0° E		evening rise	204 May 07 j 10:26	24° B 01'26	
desc. node	203 Jun 21 j 05:45	24° E 20'33			204 May 10 j 07:42	0° II	
evening max el	203 Jun 23 j 07:48	26° E 25'59	26°48'54		204 May 28 j 05:43	0° E	
	203 Jun 27 j 13:59	0° O		evening max el	204 Jun 04 j 04:53	7° E 52'29	25°45'04
retrograde	203 Jul 07 j 06:57	3° O 41'46		desc. node	204 Jun 07 j 02:45	10° E 25'17	
evening set	203 Jul 14 j 03:15	1° O 39'23		retrograde	204 Jun 18 j 06:09	15° E 04'03	
	203 Jul 16 j 14:47	30° R E		evening set	204 Jun 24 j 04:54	13° E 39'36	
min. Earth dist.	203 Jul 17 j 21:32	29° E 00'34	0.60572 AU	min. Earth dist.	204 Jun 28 j 17:17	10° E 58'59	0.58512 AU
inferior conj	203 Jul 21 j 04:16	26° E 16'31	-4°34'24	inferior conj	204 Jul 01 j 23:47	8° E 37'02	-4°46'36
minimum elong	203 Jul 21 j 07:36	26° E 09'32	4°34'01	minimum elong	204 Jul 01 j 23:31	8° E 37'32	4°46'36
morning rise	203 Jul 28 j 13:49	21° E 32'12		morning rise	204 Jul 09 j 20:35	4° E 15'00	
direct	203 Jul 31 j 01:03	21° E 08'41		direct	204 Jul 12 j 08:58	3° E 54'37	
morning max el	203 Aug 07 j 07:45	24° E 42'46	18°07'04	morning max el	204 Jul 20 j 14:13	7° E 48'13	18°40'58
asc. node	203 Aug 08 j 16:51	26° E 09'13		asc. node	204 Jul 25 j 13:56	13° E 47'36	
	203 Aug 11 j 17:02	0° O			204 Aug 03 j 22:37	0° O	
morning set	203 Aug 23 j 05:13	19° O 52'35		morning set	204 Aug 05 j 22:24	3° O 50'54	
	203 Aug 28 j 15:42	0° M					
				superior conj	204 Aug 14 j 15:56	20° O 41'50	1°43'23
superior conj	203 Sep 02 j 00:01	7° M 53'42	1°29'49	minimum elong	204 Aug 14 j 17:48	20° O 50'38	1°43'19
minimum elong	203 Sep 02 j 03:59	8° M 11'23	1°29'29		204 Aug 19 j 17:10	0° M	
max. Earth dist.	203 Sep 09 j 14:59	21° M 07'00	1.41513 AU	max. Earth dist.	204 Aug 21 j 19:12	3° M 42'40	1.39531 AU
evening rise	203 Sep 15 j 00:36	0° A 00'22		evening rise	204 Aug 25 j 21:14	10° M 45'57	
	203 Sep 15 j 00:31	0° A		desc. node	204 Sep 03 j 02:07	24° M 07'22	
desc. node	203 Sep 17 j 05:06	3° A 30'15			204 Sep 06 j 21:43	0° A	
	203 Oct 04 j 23:33	0° M			204 Sep 29 j 16:22	0° M	
evening max el	203 Oct 18 j 12:54	16° M 51'01	22°42'59	evening max el	204 Sep 30 j 02:05	0° M 24'23	24°03'11
retrograde	203 Oct 28 j 10:21	22° M 43'49		retrograde	204 Oct 11 j 02:01	6° M 52'09	
evening set	203 Nov 02 j 02:47	20° M 49'19		evening set	204 Oct 16 j 08:21	4° M 39'57	
asc. node	203 Nov 04 j 16:03	18° M 11'08			204 Oct 20 j 11:28	30° R A	
inferior conj	203 Nov 07 j 11:08	14° M 28'46	0°57'07	min. Earth dist.	204 Oct 21 j 03:14	29° A 07'10	0.67542 AU
minimum elong	203 Nov 07 j 09:50	14° M 33'14	0°56'34	inferior conj	204 Oct 21 j 17:50	28° A 17'42	0°04'05
min. Earth dist.	203 Nov 07 j 06:52	14° M 43'32	0.67685 AU	minimum elong	204 Oct 21 j 17:44	28° A 18'03	0°04'01
morning rise	203 Nov 12 j 16:47	8° M 17'51		transit middle	204 Oct 21 j 17:44	28° A 18'03	0°04'01
direct	203 Nov 17 j 04:12	6° M 29'02		transit begin	204 Oct 21 j 15:05	28° A 27'00	
morning max el	203 Nov 26 j 07:32	11° M 52'13	21°55'46	transit end	204 Oct 21 j 20:22	28° A 09'07	
	203 Dec 10 j 13:45	0° A		asc. node	204 Oct 21 j 13:07	28° A 33'43	
desc. node	203 Dec 14 j 04:19	5° A 12'50		morning rise	204 Oct 27 j 03:04	22° A 11'31	
morning set	203 Dec 28 j 20:29	27° A 43'27		direct	204 Oct 31 j 01:02	20° A 44'20	
	203 Dec 30 j 06:25	0° B		morning max el	204 Nov 08 j 02:52	25° A 25'21	20°37'53
max. Earth dist.	204 Jan 03 j 22:18	7° B 39'22	1.41354 AU		204 Nov 12 j 03:41	0° M	
				desc. node	204 Nov 30 j 01:22	25° M 29'15	
superior conj	204 Jan 11 j 15:15	20° B 52'19	-2°02'13		204 Dec 03 j 00:25	0° A	
minimum elong	204 Jan 11 j 15:39	20° B 54'04	2°02'12	morning set	204 Dec 06 j 21:45	6° A 00'01	
	204 Jan 16 j 17:26	0° \approx		max. Earth dist.	204 Dec 16 j 04:03	20° A 40'03	1.43158 AU
evening rise	204 Jan 22 j 04:43	10° \approx 04'27			204 Dec 21 j 20:40	0° B	
asc. node	204 Jan 31 j 15:24	26° \approx 53'48					
	204 Feb 02 j 15:23	0° H		superior conj	204 Dec 22 j 16:15	1° B 21'42	-1°55'59

minimum elong	204 Dec 22 j 11:56	1°  03'37	1°55'47	minimum elong	205 Dec 02 j 06:15	10°  04'57	1°31'02
evening rise	205 Jan 03 j 19:57	22°  19'08			205 Dec 14 j 10:41	0° 	
	205 Jan 08 j 04:33	0° 		evening rise	205 Dec 16 j 15:17	3°  40'00	
asc. node	205 Jan 17 j 12:26	15°  03'51			206 Jan 02 j 06:54	0° 	
evening max el	205 Jan 21 j 00:59	19°  15'58	18°08'09	asc. node	206 Jan 04 j 09:28	2°  24'51	
retrograde	205 Jan 27 j 13:55	22°  40'40		evening max el	206 Jan 04 j 13:29	2°  35'09	18°21'58
evening set	205 Jan 30 j 08:35	22°  03'06		retrograde	206 Jan 11 j 01:41	6°  07'42	
inferior conj	205 Feb 05 j 17:52	16°  55'46	3°49'14	evening set	206 Jan 14 j 01:07	5°  19'43	
minimum elong	205 Feb 05 j 18:09	16°  55'05	3°49'13		206 Jan 19 j 22:12	30°  R 	
min. Earth dist.	205 Feb 08 j 15:42	13°  58'56	0.62107 AU	inferior conj	206 Jan 20 j 00:44	29°  52'48	3°43'55
morning rise	205 Feb 12 j 02:31	11°  00'21		minimum elong	206 Jan 19 j 23:16	29°  56'59	3°43'48
direct	205 Feb 19 j 01:45	8°  28'20		min. Earth dist.	206 Jan 22 j 07:37	27°  31'08	0.63947 AU
desc. node	205 Feb 26 j 00:32	10°  38'29		morning rise	206 Jan 25 j 20:49	23°  34'48	
morning max el	205 Mar 05 j 02:45	16°  20'26	27°47'28	direct	206 Feb 01 j 19:14	20°  35'50	
	205 Mar 16 j 09:11	0°  H		desc. node	206 Feb 12 j 21:35	26°  32'05	
	205 Apr 03 j 09:51	0°  Y		morning max el	206 Feb 15 j 11:02	28°  30'03	27°33'10
morning set	205 Apr 07 j 12:38	8°  Y08'44			206 Feb 16 j 14:24	0° 	
max. Earth dist.	205 Apr 13 j 06:39	20°  Y13'36	1.32626 AU		206 Mar 10 j 05:00	0°  H	
				morning set	206 Mar 22 j 08:47	22°  H11'02	
superior conj	205 Apr 14 j 23:06	23°  Y52'36	-0°05'36		206 Mar 26 j 05:27	0°  Y	
minimum elong	205 Apr 14 j 23:22	23°  Y54'02	0°05'32	max. Earth dist.	206 Mar 27 j 09:48	2°  Y27'26	1.33330 AU
behind sun begin	205 Apr 14 j 18:31	23°  Y27'42					
behind sun end	205 Apr 15 j 04:13	24°  Y20'23		superior conj	206 Mar 30 j 05:45	8°  Y26'31	-0°32'29
asc. node	205 Apr 15 j 11:46	25°  Y01'28		minimum elong	206 Mar 30 j 07:19	8°  Y34'54	0°32'10
	205 Apr 17 j 18:35	0°  8		asc. node	206 Apr 02 j 08:48	15°  Y08'58	
evening rise	205 Apr 21 j 22:07	8°  855'52		evening rise	206 Apr 06 j 09:42	23°  Y45'47	
	205 May 02 j 21:04	0°  II			206 Apr 09 j 10:12	0°  8	
evening max el	205 May 16 j 20:27	18°  II40'58	24°18'24	evening max el	206 Apr 28 j 11:43	29°  814'57	22°42'57
desc. node	205 May 24 j 23:47	24°  II25'34			206 Apr 29 j 06:54	0°  II	
retrograde	205 May 30 j 17:33	25°  II40'35		retrograde	206 May 11 j 16:21	5°  II46'58	
evening set	205 Jun 04 j 07:50	24°  II53'31		desc. node	206 May 11 j 20:49	5°  II46'54	
min. Earth dist.	205 Jun 10 j 07:44	21°  II55'03	0.56676 AU	evening set	206 May 14 j 21:06	5°  II24'33	
inferior conj	205 Jun 12 j 23:15	20°  II14'56	-4°24'01	min. Earth dist.	206 May 22 j 20:07	1°  II55'52	0.55405 AU
minimum elong	205 Jun 12 j 18:12	20°  II22'58	4°23'16	inferior conj	206 May 24 j 04:05	1°  II10'10	-3°16'18
morning rise	205 Jun 21 j 07:20	16°  II12'06		minimum elong	206 May 23 j 20:45	1°  II20'41	3°14'19
direct	205 Jun 23 j 22:21	15°  II53'34			206 May 26 j 05:57	30°  R 	
morning max el	205 Jul 03 j 11:37	20°  II19'39	19°35'55	morning rise	206 Jun 01 j 22:39	27°  816'53	
	205 Jul 11 j 02:21	0°  6		direct	206 Jun 04 j 17:55	26°  858'39	
asc. node	205 Jul 12 j 11:00	2°  612'57			206 Jun 13 j 06:39	0°  II	
morning set	205 Jul 20 j 23:44	18°  614'22		morning max el	206 Jun 15 j 22:09	2°  II10'06	20°51'24
	205 Jul 26 j 19:48	0°  Omega		asc. node	206 Jun 29 j 08:04	21°  II14'06	
					206 Jul 03 j 20:07	0°  6	
superior conj	205 Jul 28 j 23:43	4°  Omega18'00	1°46'58	morning set	206 Jul 05 j 06:35	2°  655'43	
minimum elong	205 Jul 28 j 23:37	4°  Omega17'29	1°46'58				
max. Earth dist.	205 Aug 03 j 22:49	15°  Omega44'41	1.37540 AU	superior conj	206 Jul 12 j 18:46	18°  629'11	1°42'36
evening rise	205 Aug 07 j 18:05	22°  Omega40'30		minimum elong	206 Jul 12 j 17:15	18°  621'25	1°42'31
	205 Aug 11 j 23:02	0°  np		max. Earth dist.	206 Jul 17 j 07:23	27°  635'22	1.35758 AU
desc. node	205 Aug 20 j 23:09	14°  np32'56			206 Jul 18 j 13:00	0°  Omega	
	205 Aug 31 j 17:00	0°  Omega		evening rise	206 Jul 21 j 11:06	5°  Omega34'04	
evening max el	205 Sep 12 j 13:51	14°  Omega01'19	25°19'05		206 Aug 04 j 18:08	0°  np	
retrograde	205 Sep 24 j 13:17	20°  Omega55'43		desc. node	206 Aug 07 j 20:10	4°  np41'04	
evening set	205 Sep 30 j 10:19	18°  Omega27'10		evening max el	206 Aug 26 j 01:37	27°  np38'09	26°22'59
min. Earth dist.	205 Oct 04 j 20:59	13°  Omega29'32	0.67080 AU		206 Aug 28 j 16:12	0°  Omega	
inferior conj	205 Oct 05 j 22:19	12°  Omega07'16	-0°51'29	retrograde	206 Sep 07 j 19:38	4°  Omega49'20	
minimum elong	205 Oct 05 j 23:36	12°  Omega03'03	0°50'55	evening set	206 Sep 14 j 06:43	2°  Omega08'25	
asc. node	205 Oct 08 j 10:11	9°  Omega01'14			206 Sep 16 j 11:47	30°  R 	
morning rise	205 Oct 11 j 13:02	6°  Omega08'41		min. Earth dist.	206 Sep 18 j 09:41	27°  np47'44	0.66276 AU
direct	205 Oct 14 j 23:23	5°  Omega00'35		inferior conj	206 Sep 19 j 22:41	25°  np54'44	-1°47'55
morning max el	205 Oct 22 j 05:55	9°  Omega08'27	19°32'51	minimum elong	206 Sep 20 j 01:27	25°  np46'18	1°46'48
greatest brilliancy	205 Nov 05 j 09:58	28°  Omega17'00	-0.7m	asc. node	206 Sep 25 j 07:15	20°  np27'30	
	205 Nov 06 j 13:09	0°  ml		morning rise	206 Sep 25 j 20:35	20°  np06'48	
morning set	205 Nov 15 j 20:03	14°  ml16'51		direct	206 Sep 28 j 21:30	19°  np14'24	
desc. node	205 Nov 16 j 22:24	15°  ml59'00		morning max el	206 Oct 05 j 15:42	22°  np59'16	18°43'06
	205 Nov 25 j 21:46	0°  x			206 Oct 11 j 07:49	0°  Omega	
max. Earth dist.	205 Nov 28 j 17:17	4°  x26'37	1.44431 AU	morning set	206 Oct 26 j 14:33	23°  Omega38'56	
					206 Oct 30 j 14:39	0°  ml	
superior conj	205 Dec 02 j 14:26	10°  x37'44	-1°31'47	desc. node	206 Nov 03 j 19:26	6°  ml38'02	

superior conj	206 Nov 11 j 17:26	19° \mathbb{M} 05'14	-0°50'31	behind sun end	207 Oct 22 j 08:02	28° $\underline{\mathbf{a}}$ 24'43	
minimum elong	206 Nov 11 j 11:02	18° \mathbb{M} 40'07	0°49'42	desc. node	207 Oct 21 j 16:29	27° $\underline{\mathbf{a}}$ 22'53	
max. Earth dist.	206 Nov 11 j 11:08	18° \mathbb{M} 40'29	1.45020 AU		207 Oct 23 j 08:04	0° \mathbb{M}	
	206 Nov 18 j 15:37	0° \mathbb{A}		max. Earth dist.	207 Oct 25 j 05:52	3° \mathbb{M} 01'01	1.44866 AU
evening rise	206 Nov 27 j 11:25	14° \mathbb{A} 02'38		evening rise	207 Nov 07 j 08:59	23° \mathbb{M} 31'28	
greatest brilliancy	206 Dec 04 j 13:46	25° \mathbb{A} 24'58	-0.9m		207 Nov 11 j 13:15	0° \mathbb{A}	
	206 Dec 07 j 11:10	0° \mathbb{B}		greatest brilliancy	207 Nov 20 j 01:59	13° \mathbb{A} 03'42	-0.7m
evening max el	206 Dec 19 j 00:13	15° \mathbb{B} 59'58	18°53'43	evening max el	207 Dec 02 j 07:07	29° \mathbb{A} 27'43	19°41'56
asc. node	206 Dec 22 j 06:30	18° \mathbb{B} 43'09			207 Dec 02 j 19:56	0° \mathbb{B}	
retrograde	206 Dec 25 j 19:40	19° \mathbb{B} 51'01		asc. node	207 Dec 09 j 03:31	3° \mathbb{B} 44'20	
evening set	206 Dec 29 j 00:49	18° \mathbb{B} 51'32		retrograde	207 Dec 09 j 16:44	3° \mathbb{B} 46'02	
inferior conj	207 Jan 03 j 17:34	13° \mathbb{B} 07'23	3°23'27	evening set	207 Dec 13 j 05:12	2° \mathbb{B} 33'30	
minimum elong	207 Jan 03 j 15:06	13° \mathbb{B} 15'02	3°23'00		207 Dec 15 j 23:42	30° \mathbb{R} \mathbb{A}	
min. Earth dist.	207 Jan 05 j 09:09	11° \mathbb{B} 04'52	0.65436 AU	inferior conj	207 Dec 18 j 17:23	26° \mathbb{A} 35'01	2°51'56
morning rise	207 Jan 09 j 05:04	6° \mathbb{B} 57'55		minimum elong	207 Dec 18 j 14:36	26° \mathbb{A} 44'10	2°51'10
direct	207 Jan 15 j 19:23	4° \mathbb{B} 06'33		min. Earth dist.	207 Dec 19 j 18:55	25° \mathbb{A} 10'56	0.66540 AU
morning max el	207 Jan 28 j 20:51	11° \mathbb{B} 45'37	26°46'50	morning rise	207 Dec 23 j 23:46	20° \mathbb{A} 22'27	
desc. node	207 Jan 30 j 18:37	13° \mathbb{B} 44'59		direct	207 Dec 30 j 01:36	17° \mathbb{A} 40'37	
	207 Feb 12 j 11:21	0° \approx		morning max el	208 Jan 11 j 06:00	24° \mathbb{A} 55'01	25°36'36
	207 Mar 02 j 18:20	0° \mathbb{H}			208 Jan 15 j 20:56	0° \mathbb{B}	
morning set	207 Mar 05 j 18:12	5° \mathbb{H} 36'30		desc. node	208 Jan 17 j 15:39	2° \mathbb{B} 09'03	
max. Earth dist.	207 Mar 10 j 02:32	14° \mathbb{H} 06'39	1.34475 AU		208 Feb 05 j 22:39	0° \approx	
				morning set	208 Feb 16 j 12:26	18° \approx 12'23	
superior conj	207 Mar 14 j 06:46	22° \mathbb{H} 38'13	-0°59'15	max. Earth dist.	208 Feb 20 j 07:13	25° \approx 14'52	1.36073 AU
minimum elong	207 Mar 14 j 09:37	22° \mathbb{H} 52'56	0°58'45		208 Feb 22 j 18:32	0° \mathbb{H}	
	207 Mar 17 j 19:11	0° \mathbb{Y}					
asc. node	207 Mar 20 j 05:50	5° \mathbb{Y} 08'19		superior conj	208 Feb 25 j 23:36	6° \mathbb{H} 20'32	-1°24'17
evening rise	207 Mar 21 j 19:15	8° \mathbb{Y} 23'33		minimum elong	208 Feb 26 j 03:21	6° \mathbb{H} 39'16	1°23'45
	207 Apr 02 j 10:20	0° \mathbb{B}		evening rise	208 Mar 05 j 00:45	22° \mathbb{H} 43'08	
evening max el	207 Apr 10 j 09:41	10° \mathbb{B} 03'31	21°12'58	asc. node	208 Mar 06 j 02:51	24° \mathbb{H} 55'06	
retrograde	207 Apr 22 j 06:34	15° \mathbb{B} 49'35			208 Mar 08 j 16:21	0° \mathbb{Y}	
evening set	207 Apr 24 j 13:55	15° \mathbb{B} 37'16		evening max el	208 Mar 22 j 18:39	21° \mathbb{Y} 26'49	19°57'44
desc. node	207 Apr 28 j 17:50	14° \mathbb{B} 19'25		retrograde	208 Apr 01 j 22:25	26° \mathbb{Y} 19'26	
inferior conj	207 May 03 j 22:36	11° \mathbb{B} 37'50	-1°29'01	evening set	208 Apr 04 j 00:37	26° \mathbb{Y} 07'57	
minimum elong	207 May 03 j 18:26	11° \mathbb{B} 43'44	1°27'34	inferior conj	208 Apr 12 j 21:04	22° \mathbb{Y} 07'48	0°29'44
min. Earth dist.	207 May 04 j 08:53	11° \mathbb{B} 23'22	0.54979 AU	minimum elong	208 Apr 12 j 22:23	22° \mathbb{Y} 05'48	0°29'17
morning rise	207 May 12 j 23:09	7° \mathbb{B} 36'04		desc. node	208 Apr 14 j 14:50	21° \mathbb{Y} 04'15	
direct	207 May 16 j 04:00	7° \mathbb{B} 13'51		min. Earth dist.	208 Apr 14 j 22:59	20° \mathbb{Y} 52'01	0.55515 AU
morning max el	207 May 28 j 22:00	13° \mathbb{B} 18'05	22°23'53	morning rise	208 Apr 21 j 17:58	17° \mathbb{Y} 39'21	
	207 Jun 10 j 10:42	0° \mathbb{I}		direct	208 Apr 25 j 18:51	17° \mathbb{Y} 03'25	
asc. node	207 Jun 16 j 05:06	10° \mathbb{I} 41'18		morning max el	208 May 09 j 14:25	23° \mathbb{Y} 54'55	24°04'49
morning set	207 Jun 19 j 16:45	17° \mathbb{I} 47'51			208 May 15 j 02:43	0° \mathbb{B}	
	207 Jun 25 j 10:51	0° \mathbb{E}			208 Jun 01 j 20:49	0° \mathbb{I}	
				asc. node	208 Jun 02 j 02:08	0° \mathbb{I} 27'34	
superior conj	207 Jun 26 j 21:31	3° \mathbb{E} 03'52	1°32'01	morning set	208 Jun 03 j 04:30	2° \mathbb{I} 45'19	
minimum elong	207 Jun 26 j 19:14	2° \mathbb{E} 51'46	1°31'46				
max. Earth dist.	207 Jun 30 j 00:36	9° \mathbb{E} 36'18	1.34320 AU	superior conj	208 Jun 10 j 05:18	17° \mathbb{I} 53'32	1°16'28
evening rise	207 Jul 04 j 19:21	19° \mathbb{E} 12'54		minimum elong	208 Jun 10 j 02:49	17° \mathbb{I} 40'07	1°16'06
	207 Jul 10 j 13:11	0° \mathbb{Q}		max. Earth dist.	208 Jun 12 j 02:57	21° \mathbb{I} 58'55	1.33275 AU
desc. node	207 Jul 25 j 17:12	24° \mathbb{Q} 23'33			208 Jun 15 j 22:28	0° \mathbb{E}	
	207 Jul 29 j 20:13	0° \mathbb{P}		evening rise	208 Jun 17 j 14:39	3° \mathbb{E} 25'00	
evening max el	207 Aug 08 j 13:25	11° \mathbb{P} 06'23	27°07'27		208 Jul 02 j 07:43	0° \mathbb{Q}	
retrograde	207 Aug 21 j 20:45	18° \mathbb{P} 25'22		desc. node	208 Jul 11 j 14:12	13° \mathbb{Q} 29'25	
evening set	207 Aug 28 j 19:10	15° \mathbb{P} 39'39		evening max el	208 Jul 21 j 00:05	24° \mathbb{Q} 15'03	27°25'27
min. Earth dist.	207 Sep 01 j 15:09	11° \mathbb{P} 55'51	0.65105 AU		208 Jul 28 j 17:21	0° \mathbb{P}	
inferior conj	207 Sep 03 j 16:50	9° \mathbb{P} 35'59	-2°43'11	retrograde	208 Aug 03 j 16:00	1° \mathbb{P} 34'39	
minimum elong	207 Sep 03 j 20:54	9° \mathbb{P} 24'32	2°41'46		208 Aug 09 j 05:05	30° \mathbb{R} \mathbb{Q}	
morning rise	207 Sep 09 j 23:22	4° \mathbb{P} 01'47		evening set	208 Aug 10 j 20:31	28° \mathbb{Q} 55'23	
asc. node	207 Sep 12 j 04:17	3° \mathbb{P} 22'58		min. Earth dist.	208 Aug 14 j 11:28	25° \mathbb{Q} 44'49	0.63576 AU
direct	207 Sep 12 j 17:13	3° \mathbb{P} 21'24		inferior conj	208 Aug 17 j 02:10	23° \mathbb{Q} 05'15	-3°34'20
morning max el	207 Sep 19 j 05:53	6° \mathbb{P} 52'36	18°09'55	minimum elong	208 Aug 17 j 06:59	22° \mathbb{Q} 52'58	3°33'01
	207 Oct 04 j 21:32	0° $\underline{\mathbf{a}}$		morning rise	208 Aug 23 j 18:34	17° \mathbb{Q} 47'53	
morning set	207 Oct 07 j 13:49	4° $\underline{\mathbf{a}}$ 26'27		direct	208 Aug 26 j 07:52	17° \mathbb{Q} 16'06	
				asc. node	208 Aug 29 j 01:20	17° \mathbb{Q} 52'53	
superior conj	207 Oct 21 j 21:21	27° $\underline{\mathbf{a}}$ 42'17	-0°01'21	morning max el	208 Sep 01 j 21:41	20° \mathbb{Q} 41'49	17°54'07
minimum elong	207 Oct 21 j 21:11	27° $\underline{\mathbf{a}}$ 41'38	0°01'20		208 Sep 08 j 21:36	0° \mathbb{P}	
behind sun begin	207 Oct 21 j 10:21	26° $\underline{\mathbf{a}}$ 58'30		morning set	208 Sep 18 j 14:49	16° \mathbb{P} 27'58	

	208 Sep 26 j 11:53	0°♄		superior conj	209 Sep 12 j 01:10	18°♄20'52	1°16'36
				minimum elong	209 Sep 12 j 05:57	18°♄41'35	1°16'05
superior conj	208 Sep 30 j 21:33	7°♄20'57	0°43'27		209 Sep 18 j 22:23	0°♄	
minimum elong	208 Oct 01 j 01:47	7°♄38'28	0°42'53	max. Earth dist.	209 Sep 19 j 11:11	0°♄52'45	1.42558 AU
max. Earth dist.	208 Oct 06 j 22:31	17°♄09'53	1.44007 AU	desc. node	209 Sep 24 j 10:33	8°♄55'52	
desc. node	208 Oct 07 j 13:31	18°♄09'49		evening rise	209 Sep 26 j 04:25	11°♄41'43	
	208 Oct 15 j 02:12	0°♄			209 Oct 08 j 04:42	0°♄	
evening rise	208 Oct 16 j 16:52	2°♄29'29		evening max el	209 Oct 28 j 04:47	26°♄25'54	21°57'42
	208 Nov 04 j 03:26	0°♄			209 Nov 01 j 07:26	0°♄	
evening max el	208 Nov 14 j 08:47	12°♄56'19	20°44'25	retrograde	209 Nov 06 j 10:44	1°♄55'49	
retrograde	208 Nov 22 j 14:22	17°♄48'27		evening set	209 Nov 10 j 19:55	0°♄11'28	
asc. node	208 Nov 25 j 00:34	17°♄15'08			209 Nov 11 j 01:28	30°♄	
evening set	208 Nov 26 j 12:09	16°♄20'57		asc. node	209 Nov 11 j 21:37	29°♄13'44	
inferior conj	208 Dec 01 j 21:38	10°♄11'19	2°12'06	inferior conj	209 Nov 16 j 04:17	23°♄54'00	1°25'57
minimum elong	208 Dec 01 j 19:06	10°♄19'59	2°11'13	minimum elong	209 Nov 16 j 02:26	24°♄00'25	1°25'12
min. Earth dist.	208 Dec 02 j 10:42	9°♄26'43	0.67266 AU	min. Earth dist.	209 Nov 16 j 06:06	23°♄47'43	0.67637 AU
morning rise	208 Dec 07 j 01:50	3°♄57'47		morning rise	209 Nov 21 j 08:47	17°♄41'40	
direct	208 Dec 12 j 12:59	1°♄33'46		direct	209 Nov 26 j 04:46	15°♄39'39	
morning max el	208 Dec 23 j 14:17	8°♄09'27	24°12'29	morning max el	209 Dec 06 j 00:19	21°♄28'47	22°44'34
desc. node	209 Jan 03 j 12:42	21°♄18'55			209 Dec 13 j 07:44	0°♄	
	209 Jan 09 j 17:26	0°♄		desc. node	209 Dec 21 j 09:46	11°♄01'36	
morning set	209 Jan 28 j 09:38	29°♄42'03			210 Jan 03 j 00:52	0°♄	
	209 Jan 28 j 13:47	0°♄		morning set	210 Jan 09 j 03:43	9°♄50'33	
max. Earth dist.	209 Feb 01 j 03:19	6°♄17'42	1.38046 AU	max. Earth dist.	210 Jan 13 j 23:07	17°♄54'25	1.40181 AU
					210 Jan 20 j 20:16	0°♄	
superior conj	209 Feb 08 j 04:48	19°♄24'14	-1°45'18	superior conj	210 Jan 21 j 17:55	1°♄38'04	-1°59'07
minimum elong	209 Feb 08 j 08:36	19°♄42'23	1°44'56	minimum elong	210 Jan 21 j 20:11	1°♄48'21	1°59'01
	209 Feb 13 j 15:20	0°♄		evening rise	210 Jan 31 j 13:30	20°♄00'13	
evening rise	209 Feb 16 j 23:49	6°♄37'39			210 Feb 05 j 21:54	0°♄	
asc. node	209 Feb 20 j 23:53	14°♄23'57		asc. node	210 Feb 07 j 20:55	3°♄28'48	
	209 Mar 02 j 12:22	0°♄		evening max el	210 Feb 16 j 19:06	16°♄02'41	18°25'02
evening max el	209 Mar 05 j 14:36	3°♄28'29	19°01'23	retrograde	210 Feb 24 j 04:42	19°♄41'37	
retrograde	209 Mar 14 j 03:58	7°♄36'10		evening set	210 Feb 26 j 16:00	19°♄18'24	
evening set	209 Mar 16 j 09:57	7°♄20'16		inferior conj	210 Mar 05 j 23:23	14°♄43'50	3°12'04
inferior conj	209 Mar 24 j 11:41	3°♄06'01	2°08'12	minimum elong	210 Mar 06 j 03:02	14°♄36'22	3°11'22
minimum elong	209 Mar 24 j 15:53	2°♄58'40	2°06'59	min. Earth dist.	210 Mar 09 j 09:50	11°♄56'37	0.58818 AU
min. Earth dist.	209 Mar 27 j 14:41	0°♄55'49	0.56895 AU	morning rise	210 Mar 13 j 11:32	9°♄14'27	
	209 Mar 29 j 01:20	30°♄		desc. node	210 Mar 19 j 08:54	7°♄35'15	
desc. node	209 Apr 01 j 11:50	28°♄11'45		direct	210 Mar 19 j 15:30	7°♄35'03	
morning rise	209 Apr 01 j 18:48	28°♄04'38		morning max el	210 Apr 02 j 23:36	15°♄15'22	26°56'13
direct	209 Apr 06 j 22:36	27°♄01'41			210 Apr 14 j 21:43	0°♄	
	209 Apr 15 j 18:36	0°♄			210 May 01 j 20:33	0°♄	
morning max el	209 Apr 21 j 05:04	4°♄24'37	25°40'45	morning set	210 May 03 j 02:13	2°♄33'50	
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morning set	209 May 18 j 16:14	17°♄42'48					
asc. node	209 May 19 j 23:12	20°♄27'05		superior conj	210 May 10 j 03:45	17°♄49'24	0°34'27
	209 May 24 j 08:46	0°♄		minimum elong	210 May 10 j 02:17	17°♄41'21	0°34'09
superior conj	209 May 25 j 16:00	2°♄51'04	0°57'01	max. Earth dist.	210 May 10 j 00:49	17°♄33'20	1.32324 AU
minimum elong	209 May 25 j 13:49	2°♄39'09	0°56'37		210 May 15 j 17:59	0°♄	
max. Earth dist.	209 May 26 j 12:14	4°♄41'43	1.32613 AU	evening rise	210 May 17 j 01:42	2°♄48'02	
evening rise	209 Jun 01 j 17:40	17°♄59'57			210 May 31 j 17:53	0°♄	
	209 Jun 07 j 19:14	0°♄		desc. node	210 Jun 15 j 08:13	18°♄43'46	
	209 Jun 27 j 00:28	0°♄		evening max el	210 Jun 15 j 08:31	18°♄44'30	26°25'21
desc. node	209 Jun 28 j 11:11	1°♄43'40		retrograde	210 Jun 29 j 08:34	25°♄58'05	
evening max el	209 Jul 03 j 07:23	6°♄51'55	27°11'57	evening set	210 Jul 05 j 21:32	24°♄11'07	
retrograde	209 Jul 17 j 04:25	14°♄08'36		min. Earth dist.	210 Jul 09 j 21:35	21°♄33'56	0.59691 AU
evening set	209 Jul 24 j 06:52	11°♄49'12		inferior conj	210 Jul 13 j 05:39	18°♄56'56	-4°43'00
min. Earth dist.	209 Jul 27 j 21:33	9°♄02'50	0.61732 AU	minimum elong	210 Jul 13 j 07:43	18°♄52'51	4°42'52
inferior conj	209 Jul 30 j 23:40	6°♄15'49	-4°16'43	morning rise	210 Jul 20 j 19:57	14°♄22'01	
minimum elong	209 Jul 31 j 04:04	6°♄05'52	4°15'56	direct	210 Jul 23 j 07:38	13°♄59'51	
morning rise	209 Aug 07 j 02:47	1°♄18'23		morning max el	210 Jul 30 j 22:30	17°♄40'30	18°18'58
direct	209 Aug 09 j 14:08	0°♄52'23		asc. node	210 Aug 02 j 19:29	20°♄52'53	
asc. node	209 Aug 15 j 22:24	3°♄48'13			210 Aug 08 j 19:33	0°♄	
morning max el	209 Aug 16 j 12:15	4°♄20'47	17°56'44	morning set	210 Aug 15 j 22:30	13°♄06'18	
morning set	209 Sep 01 j 11:34	29°♄26'39			210 Aug 24 j 22:02	0°♄	
	209 Sep 01 j 18:53	0°♄					

























































































































superior conj	210 Aug 25 j 05:26	0° \mathbb{M} 33'52	1°36'56	morning max el	211 Jul 14 j 01:25	0° \mathbb{G} 32'10	19°01'51
minimum elong	210 Aug 25 j 08:33	0° \mathbb{M} 48'06	1°36'43	asc. node	211 Jul 20 j 16:32	8° \mathbb{G} 52'08	
max. Earth dist.	210 Sep 01 j 18:28	13° \mathbb{M} 55'19	1.40695 AU	morning set	211 Jul 30 j 19:28	27° \mathbb{G} 15'44	
evening rise	210 Sep 06 j 10:52	21° \mathbb{M} 46'51			211 Aug 01 j 04:42	0° \mathbb{Q}	
desc. node	210 Sep 11 j 07:35	29° \mathbb{M} 37'09					
	210 Sep 11 j 13:22	0° \mathbb{L}		superior conj	211 Aug 08 j 04:43	13° \mathbb{Q} 44'02	1°46'01
	210 Oct 02 j 07:18	0° \mathbb{M}		minimum elong	211 Aug 08 j 05:42	13° \mathbb{Q} 48'45	1°45'59
evening max el	210 Oct 10 j 19:51	9° \mathbb{M} 57'02	23°17'04	max. Earth dist.	211 Aug 14 j 21:42	26° \mathbb{Q} 14'01	1.38667 AU
retrograde	210 Oct 21 j 04:26	16° \mathbb{M} 04'55			211 Aug 17 j 00:25	0° \mathbb{M}	
evening set	210 Oct 26 j 02:47	14° \mathbb{M} 02'38		evening rise	211 Aug 18 j 18:00	3° \mathbb{M} 01'35	
asc. node	210 Oct 29 j 18:41	9° \mathbb{M} 59'07		desc. node	211 Aug 29 j 04:36	20° \mathbb{M} 09'40	
inferior conj	210 Oct 31 j 11:27	7° \mathbb{M} 40'59	0°35'00		211 Sep 04 j 17:34	0° \mathbb{L}	
minimum elong	210 Oct 31 j 10:38	7° \mathbb{M} 43'48	0°34'39	evening max el	211 Sep 23 j 07:59	23° \mathbb{L} 31'11	24°36'21
min. Earth dist.	210 Oct 31 j 02:44	8° \mathbb{M} 10'56	0.67673 AU		211 Oct 03 j 00:59	0° \mathbb{M}	
morning rise	210 Nov 05 j 18:26	1° \mathbb{M} 32'02		retrograde	211 Oct 04 j 18:26	0° \mathbb{M} 11'56	
	210 Nov 08 j 19:57	30° \mathbb{R} \mathbb{L}			211 Oct 06 j 10:17	30° \mathbb{R} \mathbb{L}	
direct	210 Nov 09 j 23:56	29° \mathbb{L} 52'44		evening set	211 Oct 10 j 07:04	27° \mathbb{L} 52'11	
	210 Nov 11 j 04:41	0° \mathbb{M}		min. Earth dist.	211 Oct 14 j 22:14	22° \mathbb{L} 34'15	0.67386 AU
morning max el	210 Nov 18 j 15:39	4° \mathbb{M} 56'30	21°21'16	inferior conj	211 Oct 15 j 17:25	21° \mathbb{L} 30'14	-0°19'17
	210 Dec 07 j 12:36	0° \mathbb{X}		minimum elong	211 Oct 15 j 17:54	21° \mathbb{L} 28'40	0°19'05
desc. node	210 Dec 08 j 06:50	1° \mathbb{X} 07'42		asc. node	211 Oct 16 j 15:45	20° \mathbb{L} 16'20	
morning set	210 Dec 19 j 17:13	18° \mathbb{X} 39'00		morning rise	211 Oct 21 j 04:48	15° \mathbb{L} 27'07	
	210 Dec 26 j 18:39	0° \mathbb{Z}		direct	211 Oct 24 j 21:29	14° \mathbb{L} 08'39	
max. Earth dist.	210 Dec 27 j 00:58	0° \mathbb{Z} 25'57	1.42178 AU	morning max el	211 Nov 01 j 14:25	18° \mathbb{L} 34'30	20°08'27
					211 Nov 10 j 17:07	0° \mathbb{M}	
superior conj	211 Jan 03 j 09:34	12° \mathbb{Z} 48'47	-2°01'34	desc. node	211 Nov 25 j 03:52	21° \mathbb{M} 30'12	
minimum elong	211 Jan 03 j 08:07	12° \mathbb{Z} 42'33	2°01'33	morning set	211 Nov 28 j 14:04	26° \mathbb{M} 46'34	
	211 Jan 13 j 02:18	0° \mathbb{W}			211 Nov 30 j 15:57	0° \mathbb{X}	
evening rise	211 Jan 14 j 14:11	2° \mathbb{W} 42'40		max. Earth dist.	211 Dec 09 j 10:04	13° \mathbb{X} 47'49	1.43773 AU
asc. node	211 Jan 25 j 17:59	22° \mathbb{W} 01'53					
evening max el	211 Jan 31 j 05:02	29° \mathbb{W} 00'51	18°08'40	superior conj	211 Dec 14 j 23:00	22° \mathbb{X} 45'48	-1°48'02
	211 Feb 01 j 06:49	0° \mathbb{H}		minimum elong	211 Dec 14 j 16:38	22° \mathbb{X} 19'42	1°47'36
retrograde	211 Feb 06 j 22:39	2° \mathbb{H} 27'03			211 Dec 19 j 07:55	0° \mathbb{Z}	
evening set	211 Feb 09 j 14:38	1° \mathbb{H} 55'05		evening rise	211 Dec 27 j 21:31	14° \mathbb{Z} 35'31	
	211 Feb 12 j 20:30	30° \mathbb{R} \mathbb{W}			212 Jan 05 j 22:09	0° \mathbb{W}	
inferior conj	211 Feb 16 j 06:55	26° \mathbb{W} 59'20	3°43'12	asc. node	212 Jan 12 j 15:02	9° \mathbb{W} 52'35	
minimum elong	211 Feb 16 j 08:28	26° \mathbb{W} 55'42	3°43'05	evening max el	212 Jan 14 j 17:22	12° \mathbb{W} 14'03	18°11'43
min. Earth dist.	211 Feb 19 j 11:35	23° \mathbb{W} 59'05	0.60924 AU	retrograde	212 Jan 21 j 05:08	15° \mathbb{W} 41'01	
morning rise	211 Feb 23 j 00:37	21° \mathbb{W} 10'53		evening set	212 Jan 24 j 01:37	14° \mathbb{W} 59'18	
direct	211 Mar 01 j 19:40	18° \mathbb{W} 55'32		inferior conj	212 Jan 30 j 06:25	9° \mathbb{W} 43'27	3°49'07
desc. node	211 Mar 06 j 05:57	19° \mathbb{W} 48'19		minimum elong	212 Jan 30 j 05:52	9° \mathbb{W} 44'56	3°49'07
morning max el	211 Mar 16 j 00:36	26° \mathbb{W} 45'28	27°39'26	min. Earth dist.	212 Feb 01 j 22:10	6° \mathbb{W} 53'22	0.62925 AU
	211 Mar 19 j 02:20	0° \mathbb{H}		morning rise	212 Feb 05 j 09:10	3° \mathbb{W} 43'33	
	211 Apr 08 j 10:41	0° \mathbb{Y}		direct	212 Feb 12 j 09:00	1° \mathbb{W} 02'22	
morning set	211 Apr 17 j 08:41	17° \mathbb{Y} 12'24		desc. node	212 Feb 21 j 03:00	4° \mathbb{W} 27'43	
	211 Apr 23 j 09:02	0° \mathbb{Z}		morning max el	212 Feb 26 j 06:58	8° \mathbb{W} 55'31	27°45'39
max. Earth dist.	211 Apr 23 j 12:52	0° \mathbb{Z} 20'53	1.32405 AU		212 Mar 13 j 15:14	0° \mathbb{H}	
asc. node	211 Apr 23 j 17:17	0° \mathbb{Z} 45'00			212 Mar 30 j 15:19	0° \mathbb{Y}	
				morning set	212 Mar 31 j 09:20	1° \mathbb{Y} 30'12	
superior conj	211 Apr 24 j 14:55	2° \mathbb{Z} 43'07	0°09'32	max. Earth dist.	212 Apr 05 j 20:12	12° \mathbb{Y} 49'20	1.32871 AU
minimum elong	211 Apr 24 j 14:28	2° \mathbb{Z} 40'43	0°09'26				
behind sun begin	211 Apr 24 j 10:23	2° \mathbb{Z} 18'21		superior conj	212 Apr 07 j 23:42	17° \mathbb{Y} 25'39	-0°16'57
behind sun end	211 Apr 24 j 18:34	3° \mathbb{Z} 03'06		minimum elong	212 Apr 08 j 00:31	17° \mathbb{Y} 30'02	0°16'46
evening rise	211 May 01 j 12:37	17° \mathbb{Z} 42'02		asc. node	212 Apr 09 j 14:20	20° \mathbb{Y} 54'35	
	211 May 07 j 14:39	0° \mathbb{I}			212 Apr 13 j 19:20	0° \mathbb{Z}	
evening max el	211 May 28 j 02:37	29° \mathbb{I} 51'40	25°10'10	evening rise	212 Apr 15 j 00:26	2° \mathbb{Z} 34'38	
	211 May 28 j 06:07	0° \mathbb{G}			212 Apr 30 j 01:51	0° \mathbb{I}	
desc. node	211 Jun 02 j 05:13	3° \mathbb{G} 59'48		evening max el	212 May 08 j 17:00	10° \mathbb{I} 29'15	23°37'55
retrograde	211 Jun 11 j 02:57	6° \mathbb{G} 59'54		desc. node	212 May 19 j 02:13	16° \mathbb{I} 55'29	
evening set	211 Jun 16 j 13:07	5° \mathbb{G} 51'52		retrograde	212 May 22 j 09:24	17° \mathbb{I} 20'17	
min. Earth dist.	211 Jun 21 j 14:16	3° \mathbb{G} 05'37	0.57685 AU	evening set	212 May 26 j 08:26	16° \mathbb{I} 45'43	
inferior conj	211 Jun 24 j 16:42	0° \mathbb{G} 59'07	-4°42'04	min. Earth dist.	212 Jun 02 j 03:37	13° \mathbb{I} 35'34	0.56040 AU
minimum elong	211 Jun 24 j 14:23	1° \mathbb{G} 03'05	4°41'54	inferior conj	212 Jun 04 j 07:37	12° \mathbb{I} 17'23	-4°01'00
	211 Jun 26 j 03:48	30° \mathbb{R} \mathbb{I}		minimum elong	212 Jun 04 j 01:01	12° \mathbb{I} 27'22	3°59'40
morning rise	211 Jul 02 j 18:22	26° \mathbb{I} 46'22		morning rise	212 Jun 12 j 20:24	8° \mathbb{I} 20'22	
direct	211 Jul 05 j 07:50	26° \mathbb{I} 26'53		direct	212 Jun 15 j 12:36	8° \mathbb{I} 02'26	
	211 Jul 13 j 11:14	0° \mathbb{G}		morning max el	212 Jun 25 j 18:23	12° \mathbb{I} 46'43	20°05'45



























































































































asc. node	212 Jul 06 j 13:35	27° Π 33'29		asc. node	213 Jun 23 j 10:36	16° Π 46'26	
	212 Jul 07 j 22:14	0° \mathfrak{D}		morning set	213 Jun 28 j 07:49	26° Π 33'03	
morning set	212 Jul 13 j 23:23	11° \mathfrak{D} 46'55			213 Jun 29 j 23:33	0° \mathfrak{D}	
superior conj	212 Jul 21 j 17:45	27° \mathfrak{D} 36'17	1°45'59	superior conj	213 Jul 05 j 16:24	11° \mathfrak{D} 58'03	1°38'47
minimum elong	212 Jul 21 j 16:59	27° \mathfrak{D} 32'23	1°45'57	minimum elong	213 Jul 05 j 14:29	11° \mathfrak{D} 48'04	1°38'38
	212 Jul 22 j 22:32	0° Ω		max. Earth dist.	213 Jul 09 j 14:04	19° \mathfrak{D} 57'39	1.35096 AU
max. Earth dist.	212 Jul 27 j 02:13	8° Ω 05'35	1.36736 AU	evening rise	213 Jul 14 j 00:01	28° \mathfrak{D} 36'52	
evening rise	212 Jul 30 j 23:59	15° Ω 22'35			213 Jul 14 j 17:31	0° Ω	
	212 Aug 08 j 10:35	0° \mathfrak{N}		desc. node	213 Aug 01 j 22:36	0° \mathfrak{N} 26'28	
desc. node	212 Aug 15 j 01:36	10° \mathfrak{N} 28'27			213 Aug 01 j 15:22	0° \mathfrak{N}	
	212 Aug 29 j 07:27	0° \mathfrak{L}		evening max el	213 Aug 18 j 07:31	20° \mathfrak{N} 43'18	26°44'56
evening max el	212 Sep 04 j 19:30	7° \mathfrak{L} 08'30	25°48'16	retrograde	213 Aug 31 j 08:02	27° \mathfrak{N} 58'42	
retrograde	212 Sep 17 j 03:53	14° \mathfrak{L} 12'11		evening set	213 Sep 07 j 00:14	25° \mathfrak{N} 14'58	
evening set	212 Sep 23 j 06:56	11° \mathfrak{L} 37'43		min. Earth dist.	213 Sep 11 j 00:13	21° \mathfrak{N} 09'51	0.65815 AU
min. Earth dist.	212 Sep 27 j 14:13	6° \mathfrak{L} 55'29	0.66771 AU	inferior conj	213 Sep 12 j 18:24	19° \mathfrak{N} 05'03	-2°11'39
inferior conj	212 Sep 28 j 20:24	5° \mathfrak{L} 19'41	-1°15'25	minimum elong	213 Sep 12 j 21:44	18° \mathfrak{N} 55'08	2°10'23
minimum elong	212 Sep 28 j 22:19	5° \mathfrak{L} 13'36	1°14'36	morning rise	213 Sep 18 j 19:45	13° \mathfrak{N} 22'16	
asc. node	212 Oct 02 j 12:47	1° \mathfrak{L} 03'35		asc. node	213 Sep 19 j 09:49	13° \mathfrak{N} 05'18	
	212 Oct 03 j 17:59	30° \mathfrak{R} \mathfrak{N}		direct	213 Sep 21 j 17:23	12° \mathfrak{N} 35'19	
morning rise	212 Oct 04 j 13:57	29° \mathfrak{N} 25'08		morning max el	213 Sep 28 j 08:24	16° \mathfrak{N} 13'31	18°26'55
direct	212 Oct 07 j 19:55	28° \mathfrak{N} 24'17			213 Oct 08 j 11:01	0° \mathfrak{L}	
	212 Oct 12 j 03:06	0° \mathfrak{L}		morning set	213 Oct 18 j 01:27	15° \mathfrak{L} 24'15	
morning max el	212 Oct 14 j 20:34	2° \mathfrak{L} 21'39	19°09'45		213 Oct 27 j 04:00	0° \mathfrak{M}	
	212 Nov 03 j 07:21	0° \mathfrak{M}		desc. node	213 Oct 28 j 21:56	2° \mathfrak{M} 46'20	
morning set	212 Nov 06 j 18:52	5° \mathfrak{M} 25'50		superior conj	213 Nov 02 j 11:59	10° \mathfrak{M} 00'45	-0°29'53
desc. node	212 Nov 11 j 00:55	12° \mathfrak{M} 04'36		minimum elong	213 Nov 02 j 08:04	9° \mathfrak{M} 45'18	0°29'22
max. Earth dist.	212 Nov 21 j 01:09	27° \mathfrak{M} 46'47	1.44769 AU	max. Earth dist.	213 Nov 03 j 19:45	12° \mathfrak{M} 05'39	1.45048 AU
	212 Nov 22 j 10:54	0° \mathfrak{X}			213 Nov 15 j 05:24	0° \mathfrak{X}	
superior conj	212 Nov 23 j 11:27	1° \mathfrak{X} 37'07	-1°16'03	evening rise	213 Nov 18 j 17:19	5° \mathfrak{X} 30'18	
minimum elong	212 Nov 23 j 03:11	1° \mathfrak{X} 04'26	1°15'08	greatest brilliancy	213 Nov 28 j 16:10	21° \mathfrak{X} 08'51	-0.8m
evening rise	212 Dec 08 j 07:19	25° \mathfrak{X} 32'12			213 Dec 04 j 12:46	0° \mathfrak{Z}	
	212 Dec 11 j 00:25	0° \mathfrak{Z}		evening max el	213 Dec 11 j 14:53	9° \mathfrak{Z} 03'38	19°12'19
evening max el	212 Dec 28 j 05:27	25° \mathfrak{Z} 36'37	18°33'19	asc. node	213 Dec 16 j 09:05	12° \mathfrak{Z} 36'37	
asc. node	212 Dec 29 j 12:03	26° \mathfrak{Z} 48'59		retrograde	213 Dec 18 j 15:24	13° \mathfrak{Z} 04'50	
retrograde	213 Jan 03 j 19:52	29° \mathfrak{Z} 15'43		evening set	213 Dec 21 j 23:31	11° \mathfrak{Z} 59'56	
evening set	213 Jan 06 j 21:32	28° \mathfrak{Z} 23'08		inferior conj	213 Dec 27 j 14:06	6° \mathfrak{Z} 09'30	3°11'15
inferior conj	213 Jan 12 j 17:57	22° \mathfrak{Z} 48'52	3°36'47	minimum elong	213 Dec 27 j 11:25	6° \mathfrak{Z} 18'02	3°10'38
minimum elong	213 Jan 12 j 15:58	22° \mathfrak{Z} 54'44	3°36'31	min. Earth dist.	213 Dec 28 j 23:32	4° \mathfrak{Z} 23'02	0.65963 AU
min. Earth dist.	213 Jan 14 j 18:22	20° \mathfrak{Z} 25'58	0.64636 AU	morning rise	214 Jan 01 j 23:04	29° \mathfrak{X} 58'43	
morning rise	213 Jan 18 j 09:56	16° \mathfrak{Z} 42'12			214 Jan 01 j 22:30	30° \mathfrak{R} \mathfrak{X}	
direct	213 Jan 25 j 05:45	13° \mathfrak{Z} 50'08		direct	214 Jan 08 j 08:37	27° \mathfrak{X} 10'04	
desc. node	213 Feb 07 j 00:04	20° \mathfrak{Z} 57'52			214 Jan 15 j 16:26	0° \mathfrak{Z}	
morning max el	213 Feb 07 j 16:06	21° \mathfrak{Z} 37'22	27°16'44	morning max el	214 Jan 21 j 01:36	4° \mathfrak{Z} 39'37	26°19'13
	213 Feb 15 j 00:09	0° \mathfrak{X}		desc. node	214 Jan 24 j 21:07	8° \mathfrak{Z} 47'20	
	213 Mar 06 j 18:51	0° \mathfrak{X}			214 Feb 09 j 11:36	0° \mathfrak{X}	
morning set	213 Mar 15 j 01:21	15° \mathfrak{X} 18'03		morning set	214 Feb 26 j 04:58	28° \mathfrak{X} 24'35	
max. Earth dist.	213 Mar 19 j 18:57	24° \mathfrak{X} 47'17	1.33762 AU		214 Feb 27 j 01:15	0° \mathfrak{X}	
	213 Mar 22 j 07:09	0° \mathfrak{Y}		max. Earth dist.	214 Mar 02 j 06:32	6° \mathfrak{X} 12'06	1.35107 AU
superior conj	213 Mar 23 j 04:14	1° \mathfrak{Y} 50'55	-0°43'58	superior conj	214 Mar 07 j 02:12	15° \mathfrak{X} 51'56	-1°10'13
minimum elong	213 Mar 23 j 06:22	2° \mathfrak{Y} 02'09	0°43'32	minimum elong	214 Mar 07 j 05:29	16° \mathfrak{X} 08'45	1°09'39
asc. node	213 Mar 27 j 11:21	10° \mathfrak{Y} 59'01			214 Mar 13 j 21:55	0° \mathfrak{Y}	
evening rise	213 Mar 30 j 11:20	17° \mathfrak{Y} 19'43		asc. node	214 Mar 14 j 08:23	0° \mathfrak{Y} 54'07	
	213 Apr 05 j 19:32	0° \mathfrak{X}		evening rise	214 Mar 14 j 19:29	1° \mathfrak{Y} 51'16	
evening max el	213 Apr 20 j 10:27	21° \mathfrak{X} 06'19	22°03'19		214 Mar 31 j 11:42	0° \mathfrak{X}	
retrograde	213 May 03 j 03:26	27° \mathfrak{X} 20'10		evening max el	214 Apr 02 j 13:00	2° \mathfrak{X} 09'18	20°38'47
evening set	213 May 05 j 20:49	27° \mathfrak{X} 03'43		retrograde	214 Apr 13 j 16:24	7° \mathfrak{X} 31'58	
desc. node	213 May 05 j 23:15	27° \mathfrak{X} 02'29		evening set	214 Apr 15 j 20:10	7° \mathfrak{X} 20'42	
min. Earth dist.	213 May 14 j 16:16	23° \mathfrak{X} 17'56	0.55106 AU	desc. node	214 Apr 22 j 20:16	4° \mathfrak{X} 37'33	
inferior conj	213 May 15 j 06:34	22° \mathfrak{X} 57'50	-2°34'23	inferior conj	214 Apr 25 j 01:01	3° \mathfrak{X} 23'09	-0°37'56
minimum elong	213 May 14 j 23:56	23° \mathfrak{X} 07'09	2°32'18	minimum elong	214 Apr 24 j 23:13	3° \mathfrak{X} 25'43	0°37'16
morning rise	213 May 24 j 04:27	19° \mathfrak{X} 02'57		min. Earth dist.	214 Apr 26 j 05:21	2° \mathfrak{X} 42'25	0.55096 AU
direct	213 May 27 j 02:49	18° \mathfrak{X} 43'43			214 May 01 j 14:21	30° \mathfrak{R} \mathfrak{Y}	
morning max el	213 Jun 08 j 00:05	24° \mathfrak{X} 18'06	21°29'05	morning rise	214 May 04 j 01:24	29° \mathfrak{Y} 12'06	
	213 Jun 13 j 02:49	0° \mathfrak{I}		direct	214 May 07 j 13:51	28° \mathfrak{Y} 45'22	

	214 May 13 j 08:17	0°♄		direct	215 Apr 18 j 09:14	8°♄35'15	
morning max el	214 May 20 j 20:05	5°♄10'40	23°06'28	morning max el	215 May 02 j 11:06	15°♄41'32	24°47'12
	214 Jun 07 j 01:39	0°♄			215 May 13 j 21:49	0°♄	
asc. node	214 Jun 10 j 07:39	6°♄23'04		morning set	215 May 28 j 06:53	26°♄27'18	
morning set	214 Jun 12 j 18:55	11°♄28'44		asc. node	215 May 28 j 04:42	26°♄15'49	
					215 May 29 j 22:54	0°♄	
superior conj	214 Jun 19 j 21:36	26°♄40'19	1°25'56				
minimum elong	214 Jun 19 j 19:10	26°♄27'18	1°25'39	superior conj	215 Jun 04 j 06:53	11°♄34'17	1°08'38
	214 Jun 21 j 11:09	0°♄		minimum elong	215 Jun 04 j 04:29	11°♄21'12	1°08'15
max. Earth dist.	214 Jun 22 j 11:42	2°♄09'22	1.33831 AU	max. Earth dist.	215 Jun 05 j 17:31	14°♄42'07	1.32950 AU
evening rise	214 Jun 27 j 13:29	12°♄31'45		evening rise	215 Jun 11 j 12:27	26°♄54'38	
	214 Jul 06 j 23:35	0°♄			215 Jun 13 j 01:08	0°♄	
desc. node	214 Jul 19 j 19:36	19°♄54'57			215 Jun 30 j 07:53	0°♄	
	214 Jul 27 j 20:49	0°♄		desc. node	215 Jul 06 j 16:37	8°♄41'03	
evening max el	214 Jul 31 j 19:17	4°♄05'23	27°18'44	evening max el	215 Jul 14 j 04:40	17°♄01'17	27°23'38
retrograde	214 Aug 14 j 06:25	11°♄24'18		retrograde	215 Jul 27 j 22:46	24°♄19'47	
evening set	214 Aug 21 j 08:20	8°♄39'58		evening set	215 Aug 04 j 03:49	21°♄46'57	
min. Earth dist.	214 Aug 25 j 01:57	5°♄11'01	0.64501 AU	min. Earth dist.	215 Aug 07 j 17:44	18°♄48'30	0.62828 AU
inferior conj	214 Aug 27 j 09:08	2°♄41'57	-3°05'36	inferior conj	215 Aug 10 j 13:48	16°♄03'51	-3°53'46
minimum elong	214 Aug 27 j 13:36	2°♄29'49	3°04'11	minimum elong	215 Aug 10 j 18:38	15°♄52'07	3°52'37
	214 Aug 29 j 23:58	30°♄		morning rise	215 Aug 17 j 10:42	10°♄54'53	
morning rise	214 Sep 02 j 19:42	27°♄14'22		direct	215 Aug 19 j 22:57	10°♄25'49	
direct	214 Sep 05 j 11:26	26°♄37'52		asc. node	215 Aug 24 j 03:56	11°♄49'08	
asc. node	214 Sep 06 j 06:52	26°♄41'18		morning max el	215 Aug 26 j 15:15	13°♄51'17	17°52'59
	214 Sep 11 j 21:23	0°♄			215 Sep 06 j 16:56	0°♄	
morning max el	214 Sep 11 j 23:34	0°♄05'27	18°01'02	morning set	215 Sep 11 j 22:25	9°♄12'52	
morning set	214 Sep 29 j 12:19	26°♄45'15					
	214 Oct 01 j 10:29	0°♄		superior conj	215 Sep 23 j 10:23	29°♄11'26	0°59'07
				minimum elong	215 Sep 23 j 15:16	29°♄31'57	0°58'31
superior conj	214 Oct 12 j 22:37	18°♄58'19	0°18'48		215 Sep 23 j 21:56	0°♄	
minimum elong	214 Oct 13 j 00:48	19°♄07'08	0°18'30	max. Earth dist.	215 Sep 30 j 05:45	10°♄25'10	1.43447 AU
desc. node	214 Oct 15 j 18:57	23°♄32'09		desc. node	215 Oct 02 j 15:58	14°♄19'01	
max. Earth dist.	214 Oct 17 j 14:28	26°♄25'07	1.44585 AU	evening rise	215 Oct 08 j 14:28	23°♄39'34	
	214 Oct 19 j 20:52	0°♄			215 Oct 12 j 17:22	0°♄	
evening rise	214 Oct 29 j 07:21	14°♄41'41			215 Nov 02 j 14:40	0°♄	
	214 Nov 08 j 07:45	0°♄		evening max el	215 Nov 07 j 18:50	6°♄00'27	21°14'31
greatest brilliancy	214 Nov 12 j 09:04	6°♄03'42	-0.6m	retrograde	215 Nov 16 j 10:25	11°♄08'53	
evening max el	214 Nov 24 j 19:42	22°♄31'54	20°06'57	asc. node	215 Nov 20 j 03:10	9°♄52'04	
retrograde	214 Dec 02 j 12:59	27°♄03'39		evening set	215 Nov 20 j 12:48	9°♄34'17	
asc. node	214 Dec 03 j 06:07	27°♄00'46		inferior conj	215 Nov 25 j 21:35	3°♄20'37	1°53'13
evening set	214 Dec 06 j 05:16	25°♄44'46		minimum elong	215 Nov 25 j 19:18	3°♄28'31	1°52'22
inferior conj	214 Dec 11 j 16:04	19°♄41'01	2°35'56	min. Earth dist.	215 Nov 26 j 05:41	2°♄52'45	0.67456 AU
minimum elong	214 Dec 11 j 13:20	19°♄50'12	2°35'05		215 Nov 28 j 09:37	30°♄	
min. Earth dist.	214 Dec 12 j 12:01	18°♄34'08	0.66895 AU	morning rise	215 Dec 01 j 01:37	27°♄07'16	
morning rise	214 Dec 16 j 21:13	13°♄28'00		direct	215 Dec 06 j 06:09	24°♄52'33	
direct	214 Dec 22 j 16:56	10°♄53'16			215 Dec 15 j 14:46	0°♄	
morning max el	215 Jan 03 j 10:19	17°♄52'03	25°02'00	morning max el	215 Dec 16 j 19:09	1°♄09'23	23°35'10
desc. node	215 Jan 11 j 18:10	27°♄32'47		desc. node	215 Dec 29 j 15:13	16°♄58'09	
	215 Jan 13 j 15:10	0°♄			216 Jan 07 j 14:43	0°♄	
	215 Feb 02 j 12:21	0°♄		morning set	216 Jan 21 j 01:31	21°♄32'10	
morning set	215 Feb 08 j 15:04	10°♄34'36		max. Earth dist.	216 Jan 25 j 02:29	28°♄30'31	1.38946 AU
max. Earth dist.	215 Feb 12 j 07:18	17°♄16'08	1.36881 AU		216 Jan 25 j 22:47	0°♄	
superior conj	215 Feb 18 j 14:36	29°♄19'27	-1°33'51	superior conj	216 Feb 01 j 13:36	12°♄03'45	-1°52'15
minimum elong	215 Feb 18 j 18:30	29°♄38'40	1°33'21	minimum elong	216 Feb 01 j 16:59	12°♄19'37	1°52'00
	215 Feb 18 j 22:50	0°♄		evening rise	216 Feb 10 j 18:11	29°♄44'21	
evening rise	215 Feb 26 j 22:38	16°♄01'46			216 Feb 10 j 21:24	0°♄	
asc. node	215 Mar 01 j 05:26	20°♄34'25		asc. node	216 Feb 16 j 02:30	9°♄54'29	
	215 Mar 06 j 05:42	0°♄		evening max el	216 Feb 27 j 02:43	26°♄05'56	18°43'25
evening max el	215 Mar 16 j 02:48	13°♄49'12	19°31'15	retrograde	216 Mar 06 j 03:06	29°♄59'42	
retrograde	215 Mar 25 j 13:18	18°♄21'24		evening set	216 Mar 08 j 11:09	29°♄41'06	
evening set	215 Mar 27 j 16:33	18°♄08'29		inferior conj	216 Mar 16 j 04:49	25°♄18'37	2°39'35
inferior conj	215 Apr 05 j 05:17	14°♄03'03	1°15'20	minimum elong	216 Mar 16 j 09:07	25°♄10'35	2°38'30
minimum elong	215 Apr 05 j 08:18	13°♄58'12	1°14'19	min. Earth dist.	216 Mar 19 j 12:58	22°♄49'49	0.57668 AU
min. Earth dist.	215 Apr 07 j 19:48	12°♄23'02	0.56016 AU	morning rise	216 Mar 24 j 04:05	20°♄03'48	
desc. node	215 Apr 09 j 17:19	11°♄15'07		desc. node	216 Mar 26 j 14:22	19°♄11'19	
morning rise	215 Apr 13 j 21:24	9°♄20'48		direct	216 Mar 29 j 18:44	18°♄46'05	

morning max el	216 Apr 13 j 03:09	26° H 18'26	26°16'04	desc. node	217 Mar 13 j 11:26	29° \approx 47'03	
	216 Apr 16 j 15:05	0° Y			217 Mar 14 j 13:14	0° H	
	216 May 06 j 02:29	0° B		morning max el	217 Mar 26 j 00:15	7° H 24'34	27°18'52
morning set	216 May 11 j 18:07	11° B 23'03			217 Apr 12 j 01:15	0° Y	
asc. node	216 May 14 j 01:46	16° B 19'21		morning set	217 Apr 26 j 02:52	26° Y 09'59	
					217 Apr 27 j 22:36	0° B	
superior conj	216 May 18 j 18:16	26° B 33'12	0°47'47	asc. node	217 Apr 30 j 22:50	6° B 29'01	
minimum elong	216 May 18 j 16:21	26° B 22'40	0°47'24	max. Earth dist.	217 May 02 j 17:13	10° B 20'44	1.32312 AU
max. Earth dist.	216 May 19 j 04:32	27° B 29'30	1.32447 AU				
	216 May 20 j 08:01	0° II		superior conj	217 May 03 j 06:01	11° B 31'00	0°24'09
evening rise	216 May 25 j 17:55	11° II 36'06		minimum elong	217 May 03 j 04:57	11° B 25'10	0°23'54
	216 Jun 04 j 05:58	0° B		evening rise	217 May 10 j 03:26	26° B 28'09	
desc. node	216 Jun 22 j 13:39	26° B 26'56			217 May 11 j 20:03	0° II	
evening max el	216 Jun 25 j 09:21	29° B 19'22	26°55'54		217 May 29 j 02:06	0° B	
	216 Jun 26 j 02:47	0° Ω		evening max el	217 Jun 07 j 07:36	10° B 53'19	25°56'22
retrograde	216 Jul 09 j 08:09	6° Ω 35'38		desc. node	217 Jun 09 j 10:40	12° B 47'46	
evening set	216 Jul 16 j 06:22	4° Ω 28'27		retrograde	217 Jun 21 j 08:43	18° B 05'23	
min. Earth dist.	216 Jul 19 j 23:20	1° Ω 48'12	0.60874 AU	evening set	217 Jun 27 j 11:31	16° B 35'07	
	216 Jul 22 j 02:30	30° R B		min. Earth dist.	217 Jul 01 j 20:14	13° B 55'53	0.58813 AU
inferior conj	216 Jul 23 j 05:06	29° B 02'42	-4°30'28	inferior conj	217 Jul 05 j 03:29	11° B 29'29	-4°46'45
minimum elong	216 Jul 23 j 08:47	28° B 54'49	4°29'58	minimum elong	217 Jul 05 j 03:53	11° B 28'44	4°46'45
morning rise	216 Jul 30 j 12:59	24° B 14'57		morning rise	217 Jul 12 j 22:36	7° B 04'02	
direct	216 Aug 02 j 00:06	23° B 50'55		direct	217 Jul 15 j 10:45	6° B 43'13	
morning max el	216 Aug 09 j 04:25	27° B 23'21	18°03'45	morning max el	217 Jul 23 j 11:57	10° B 33'11	18°34'33
asc. node	216 Aug 10 j 01:00	28° B 15'47		asc. node	217 Jul 27 j 22:04	15° B 46'04	
	216 Aug 11 j 13:10	0° Ω			217 Aug 05 j 09:04	0° Ω	
morning set	216 Aug 25 j 01:45	22° Ω 30'04		morning set	217 Aug 08 j 17:28	6° Ω 24'22	
	216 Aug 29 j 02:50	0° H					
superior conj	216 Sep 04 j 01:06	10° H 44'05	1°26'45	superior conj	217 Aug 17 j 14:12	23° Ω 23'56	1°42'02
minimum elong	216 Sep 04 j 05:19	11° H 02'47	1°26'21	minimum elong	217 Aug 17 j 16:24	23° Ω 34'12	1°41'54
max. Earth dist.	216 Sep 11 j 15:34	23° H 49'45	1.41792 AU		217 Aug 21 j 04:17	0° H	
	216 Sep 15 j 09:27	0° Ω		max. Earth dist.	217 Aug 24 j 20:34	6° H 32'49	1.39838 AU
evening rise	216 Sep 17 j 08:34	3° Ω 09'59		evening rise	217 Aug 29 j 01:32	13° H 45'25	
desc. node	216 Sep 18 j 12:59	5° Ω 03'20		desc. node	217 Sep 05 j 10:01	25° H 41'56	
	216 Oct 05 j 03:00	0° H			217 Sep 08 j 04:32	0° Ω	
evening max el	216 Oct 20 j 12:25	19° H 29'52	22°31'10		217 Sep 30 j 05:04	0° H	
retrograde	216 Oct 30 j 05:54	25° H 16'55		evening max el	217 Oct 03 j 02:05	3° H 02'54	23°51'18
evening set	216 Nov 03 j 20:22	23° H 25'10		retrograde	217 Oct 13 j 22:03	9° H 25'30	
asc. node	216 Nov 06 j 00:15	21° H 15'24		evening set	217 Oct 19 j 02:18	7° H 15'54	
inferior conj	216 Nov 09 j 04:40	17° H 05'18	1°04'49	asc. node	217 Oct 23 j 21:17	1° H 42'12	
minimum elong	216 Nov 09 j 03:13	17° H 10'20	1°04'14	inferior conj	217 Oct 24 j 11:32	0° H 53'47	0°12'17
min. Earth dist.	216 Nov 09 j 01:59	17° H 14'36	0.67681 AU	minimum elong	217 Oct 24 j 11:14	0° H 54'47	0°12'10
morning rise	216 Nov 14 j 09:56	10° H 53'52		transit middle	217 Oct 24 j 11:14	0° H 54'47	0°12'10
direct	216 Nov 18 j 23:33	9° H 01'33		transit begin	217 Oct 24 j 09:26	1° H 00'56	
morning max el	216 Nov 28 j 06:59	14° H 31'30	22°08'10	transit end	217 Oct 24 j 13:03	0° H 48'39	
	216 Dec 10 j 16:55	0° H		min. Earth dist.	217 Oct 23 j 22:29	1° H 38'09	0.67591 AU
desc. node	216 Dec 15 j 12:15	6° H 51'29			217 Oct 25 j 03:25	30° R Ω	
	216 Dec 30 j 14:56	0° B		morning rise	217 Oct 29 j 20:08	24° Ω 46'46	
morning set	216 Dec 31 j 06:59	1° B 04'35		direct	217 Nov 02 j 20:02	23° Ω 16'26	
max. Earth dist.	217 Jan 05 j 23:41	10° B 26'41	1.41056 AU	morning max el	217 Nov 11 j 01:10	28° Ω 02'53	20°48'39
					217 Nov 12 j 20:56	0° H	
superior conj	217 Jan 13 j 18:12	23° B 52'00	-2°01'49	desc. node	217 Dec 02 j 09:17	27° H 05'13	
minimum elong	217 Jan 13 j 19:10	23° B 56'16	2°01'49		217 Dec 04 j 07:26	0° H	
	217 Jan 17 j 04:04	0° \approx		morning set	217 Dec 10 j 10:44	9° H 26'56	
evening rise	217 Jan 24 j 02:46	12° \approx 50'25		max. Earth dist.	217 Dec 19 j 04:21	23° H 19'41	1.42921 AU
asc. node	217 Feb 01 j 23:33	28° \approx 46'57			217 Dec 23 j 05:58	0° B	
	217 Feb 02 j 17:29	0° H		superior conj	217 Dec 25 j 23:03	4° B 31'57	-1°58'02
evening max el	217 Feb 09 j 09:56	8° H 51'40	18°15'44	minimum elong	217 Dec 25 j 19:29	4° B 16'56	1°57'53
retrograde	217 Feb 16 j 11:24	12° H 23'08		evening rise	218 Jan 06 j 20:29	25° B 12'03	
evening set	217 Feb 19 j 00:45	11° H 56'23			218 Jan 09 j 13:17	0° \approx	
inferior conj	217 Feb 26 j 01:18	7° H 13'11	3°28'47	asc. node	218 Jan 19 j 20:35	17° \approx 03'14	
minimum elong	217 Feb 26 j 04:08	7° H 07'00	3°28'23	evening max el	218 Jan 23 j 21:16	21° \approx 57'13	18°07'43
min. Earth dist.	217 Mar 01 j 10:45	4° H 17'03	0.59711 AU	retrograde	218 Jan 30 j 11:04	25° \approx 21'51	
morning rise	217 Mar 05 j 05:18	1° H 34'34		evening set	218 Feb 02 j 05:05	24° \approx 45'42	
	217 Mar 08 j 22:28	30° R \approx		inferior conj	218 Feb 08 j 16:03	19° \approx 41'16	3°48'20
direct	217 Mar 11 j 17:09	29° \approx 38'47		minimum elong	218 Feb 08 j 16:39	19° \approx 39'47	3°48'19

min. Earth dist.	218 Feb 11 j 15:47	16° \approx 42'57	0.61804 AU		219 Jan 25 j 04:41	30° \approx 30	
morning rise	218 Feb 15 j 02:56	13° \approx 47'34		min. Earth dist.	219 Jan 25 j 06:17	29° \approx 55'38	0.63690 AU
direct	218 Feb 22 j 01:25	11° \approx 19'32		morning rise	219 Jan 28 j 18:47	26° \approx 32'19	
desc. node	218 Feb 28 j 08:28	13° \approx 06'20		direct	219 Feb 04 j 17:45	23° \approx 45'02	
morning max el	218 Mar 08 j 03:27	19° \approx 10'59	27°46'39	desc. node	219 Feb 15 j 05:30	28° \approx 37'25	
	218 Mar 17 j 08:03	0° \approx			219 Feb 16 j 19:11	0° \approx	
	218 Apr 04 j 20:49	0° \approx		morning max el	219 Feb 18 j 11:24	1° \approx 36'18	27°37'33
morning set	218 Apr 10 j 07:07	10° \approx 40'42			219 Mar 11 j 12:11	0° \approx	
max. Earth dist.	218 Apr 16 j 03:44	23° \approx 02'08	1.32555 AU	morning set	219 Mar 25 j 04:30	24° \approx 47'21	
					219 Mar 27 j 18:26	0° \approx	
superior conj	218 Apr 17 j 16:23	26° \approx 20'59	-0°01'33	max. Earth dist.	219 Mar 30 j 08:10	5° \approx 20'33	1.33196 AU
minimum elong	218 Apr 17 j 16:27	26° \approx 21'22	0°01'33				
behind sun begin	218 Apr 17 j 11:21	25° \approx 53'38		superior conj	219 Apr 01 j 23:36	10° \approx 57'15	-0°28'23
behind sun end	218 Apr 17 j 21:33	26° \approx 49'08		minimum elong	219 Apr 02 j 00:58	11° \approx 04'35	0°28'06
asc. node	218 Apr 17 j 19:52	26° \approx 39'59		asc. node	219 Apr 04 j 16:54	16° \approx 48'19	
	218 Apr 19 j 08:32	0° \approx		evening rise	219 Apr 09 j 02:37	26° \approx 13'40	
evening rise	218 Apr 24 j 14:57	11° \approx 22'51			219 Apr 10 j 22:02	0° \approx	
	218 May 04 j 03:36	0° \approx			219 Apr 29 j 08:29	0° \approx	
evening max el	218 May 19 j 23:43	21° \approx 46'17	24°32'14	evening max el	219 May 01 j 14:24	2° \approx 19'51	22°57'07
desc. node	218 May 27 j 07:42	27° \approx 09'30		desc. node	219 May 14 j 04:42	8° \approx 56'22	
retrograde	218 Jun 02 j 21:51	28° \approx 48'22		retrograde	219 May 14 j 22:34	8° \approx 57'37	
evening set	218 Jun 07 j 17:33	27° \approx 56'09		evening set	219 May 18 j 07:49	8° \approx 32'29	
min. Earth dist.	218 Jun 13 j 11:03	25° \approx 01'21	0.56926 AU	min. Earth dist.	219 May 25 j 23:27	5° \approx 09'02	0.55547 AU
inferior conj	218 Jun 16 j 05:59	23° \approx 13'57	-4°30'12	inferior conj	219 May 27 j 13:09	4° \approx 14'33	-3°29'32
minimum elong	218 Jun 16 j 01:35	23° \approx 21'02	4°29'40	minimum elong	219 May 27 j 05:49	4° \approx 25'10	3°27'39
morning rise	218 Jun 24 j 12:24	19° \approx 08'47		morning rise	219 Jun 05 j 06:19	0° \approx 20'57	
direct	218 Jun 27 j 03:03	18° \approx 49'59		direct	219 Jun 08 j 00:40	0° \approx 02'55	
morning max el	218 Jul 06 j 10:50	23° \approx 10'06	19°26'23	morning max el	219 Jun 18 j 23:01	5° \approx 06'48	20°38'58
	218 Jul 12 j 03:47	0° \approx		asc. node	219 Jul 01 j 16:08	23° \approx 01'00	
asc. node	218 Jul 14 j 19:06	4° \approx 04'53			219 Jul 05 j 07:48	0° \approx	
morning set	218 Jul 23 j 17:45	20° \approx 44'36		morning set	219 Jul 07 j 23:51	5° \approx 23'18	
	218 Jul 28 j 08:26	0° \approx					
superior conj	218 Jul 31 j 19:55	6° \approx 53'52	1°46'59	superior conj	219 Jul 15 j 13:30	21° \approx 00'24	1°43'42
minimum elong	218 Jul 31 j 20:05	6° \approx 54'42	1°46'58	minimum elong	219 Jul 15 j 12:10	20° \approx 53'34	1°43'38
max. Earth dist.	218 Aug 07 j 00:02	18° \approx 39'13	1.37830 AU	max. Earth dist.	219 Jul 20 j 01:24	0° \approx	
evening rise	218 Aug 10 j 18:56	25° \approx 02'58		evening rise	219 Jul 20 j 07:19	0° \approx 28'57	1.36003 AU
	218 Aug 13 j 08:50	0° \approx			219 Jul 24 j 09:10	8° \approx 15'12	
desc. node	218 Aug 23 j 07:02	16° \approx 09'39		desc. node	219 Aug 06 j 01:00	0° \approx	
	218 Sep 01 j 18:45	0° \approx			219 Aug 10 j 04:03	6° \approx 20'45	
evening max el	218 Sep 15 j 13:53	16° \approx 39'22	25°08'16	evening max el	219 Aug 28 j 18:50	0° \approx	
retrograde	218 Sep 27 j 10:00	23° \approx 30'19		retrograde	219 Aug 29 j 01:28	0° \approx 16'10	26°14'32
evening set	218 Oct 03 j 04:54	21° \approx 03'54		retrograde	219 Sep 10 j 17:10	7° \approx 25'58	
min. Earth dist.	218 Oct 07 j 16:42	16° \approx 01'02	0.67174 AU	evening set	219 Sep 17 j 02:16	4° \approx 46'23	
inferior conj	218 Oct 08 j 16:26	14° \approx 43'23	-0°42'57	min. Earth dist.	219 Sep 21 j 06:18	0° \approx 20'11	0.66415 AU
minimum elong	218 Oct 08 j 17:30	14° \approx 39'52	0°42'30		219 Sep 21 j 12:53	30° \approx 00'00	
asc. node	218 Oct 10 j 18:19	12° \approx 05'21		inferior conj	219 Sep 22 j 17:32	28° \approx 31'26	-1°39'22
morning rise	218 Oct 14 j 06:14	8° \approx 43'39		minimum elong	219 Sep 22 j 20:04	28° \approx 23'35	1°38'21
direct	218 Oct 17 j 18:11	7° \approx 32'59		asc. node	219 Sep 27 j 15:20	23° \approx 20'06	
morning max el	218 Oct 25 j 03:09	11° \approx 44'59	19°41'35	morning rise	219 Sep 28 j 14:15	22° \approx 41'47	
	218 Nov 07 j 18:36	0° \approx		direct	219 Oct 01 j 16:23	21° \approx 47'22	
morning set	218 Nov 19 j 07:53	17° \approx 39'30		morning max el	219 Oct 08 j 12:05	25° \approx 35'15	18°49'30
desc. node	218 Nov 19 j 06:20	17° \approx 33'29			219 Oct 12 j 06:33	0° \approx	
	218 Nov 27 j 06:01	0° \approx		morning set	219 Oct 29 j 22:26	26° \approx 49'40	
max. Earth dist.	218 Dec 01 j 16:52	7° \approx 01'42	1.44282 AU		219 Oct 31 j 22:37	0° \approx	
superior conj	218 Dec 06 j 01:05	13° \approx 58'25	-1°36'40	desc. node	219 Nov 06 j 03:21	8° \approx 11'35	
minimum elong	218 Dec 05 j 17:12	13° \approx 26'43	1°35'58	max. Earth dist.	219 Nov 14 j 10:04	21° \approx 12'23	1.44976 AU
	218 Dec 15 j 19:28	0° \approx		superior conj	219 Nov 15 j 05:58	22° \approx 30'41	-0°57'34
evening rise	218 Dec 19 j 19:05	6° \approx 41'53		minimum elong	219 Nov 14 j 22:53	22° \approx 02'49	0°56'43
	219 Jan 03 j 03:06	0° \approx			219 Nov 19 j 23:55	0° \approx	
asc. node	219 Jan 06 j 17:37	4° \approx 32'36		evening rise	219 Nov 30 j 18:50	17° \approx 13'40	
evening max el	219 Jan 07 j 09:48	5° \approx 15'10	18°18'43		219 Dec 08 j 17:04	0° \approx	
retrograde	219 Jan 13 j 21:37	8° \approx 45'59		evening max el	219 Dec 21 j 20:55	18° \approx 39'32	18°47'51
evening set	219 Jan 16 j 20:16	7° \approx 59'39		asc. node	219 Dec 24 j 14:38	21° \approx 01'29	
inferior conj	219 Jan 22 j 21:07	2° \approx 35'26	3°45'48	retrograde	219 Dec 28 j 14:54	22° \approx 27'21	
minimum elong	219 Jan 22 j 19:52	2° \approx 38'57	3°45'43	evening set	219 Dec 31 j 19:04	21° \approx 29'46	
				inferior conj	220 Jan 06 j 12:41	15° \approx 48'05	3°27'21

minimum elong	220 Jan 06 j 10:19	15°  55'19	3°26'56			220 Dec 19 j 21:36	30° 	
min. Earth dist.	220 Jan 08 j 06:32	13°  39'59	0.65240 AU	inferior conj		220 Dec 20 j 11:40	29°  14'15	2°57'18
morning rise	220 Jan 12 j 01:13	9°  39'09		minimum elong		220 Dec 20 j 08:53	29°  23'18	2°56'34
direct	220 Jan 18 j 17:05	6°  47'08		min. Earth dist.		220 Dec 21 j 15:14	27°  44'11	0.66407 AU
morning max el	220 Jan 31 j 21:11	14°  29'04	26°55'25	morning rise		220 Dec 25 j 18:38	23°  02'02	
desc. node	220 Feb 02 j 02:33	15°  44'35		direct		220 Dec 31 j 22:34	20°  18'02	
	220 Feb 13 j 13:35	0° 		morning max el		221 Jan 13 j 06:25	27°  36'54	25°48'05
	220 Mar 03 j 04:50	0° 				221 Jan 15 j 12:41	0° 	
morning set	220 Mar 07 j 15:45	8°  19'05		desc. node		221 Jan 18 j 23:37	4°  00'24	
max. Earth dist.	220 Mar 12 j 02:29	17°  04'17	1.34273 AU			221 Feb 06 j 06:08	0° 	
				morning set		221 Feb 18 j 12:36	21°  03'23	
superior conj	220 Mar 16 j 01:36	25°  12'35	-0°55'18	max. Earth dist.		221 Feb 22 j 08:45	28°  15'28	1.35811 AU
minimum elong	220 Mar 16 j 04:15	25°  26'26	0°54'47			221 Feb 23 j 06:29	0° 	
	220 Mar 18 j 08:24	0° 						
asc. node	220 Mar 21 j 13:56	6°  49'11		superior conj		221 Feb 27 j 19:53	9°  00'03	-1°20'43
evening rise	220 Mar 23 j 12:34	10°  53'22		minimum elong		221 Feb 27 j 23:32	9°  18'25	1°20'09
	220 Apr 02 j 13:23	0° 		evening rise		221 Mar 07 j 18:50	25°  16'09	
evening max el	220 Apr 12 j 10:58	13°  04'29	21°25'36	asc. node		221 Mar 08 j 10:59	26°  38'16	
retrograde	220 Apr 24 j 13:37	18°  58'18				221 Mar 10 j 03:07	0° 	
evening set	220 Apr 26 j 22:54	18°  45'17		evening max el		221 Mar 25 j 18:18	24°  22'23	20°07'47
desc. node	220 Apr 30 j 01:43	17°  52'26		retrograde		221 Apr 05 j 04:09	29°  22'27	
inferior conj	220 May 06 j 08:22	14°  44'40	-1°46'55	evening set		221 Apr 07 j 06:23	29°  11'12	
minimum elong	220 May 06 j 03:25	14°  51'38	1°45'11	inferior conj		221 Apr 16 j 05:19	25°  12'23	0°12'29
min. Earth dist.	220 May 06 j 12:15	14°  39'12	0.54978 AU	minimum elong		221 Apr 16 j 05:53	25°  11'32	0°12'17
morning rise	220 May 15 j 08:27	10°  45'15		transit middle		221 Apr 16 j 05:53	25°  11'32	0°12'17
direct	220 May 18 j 11:13	10°  24'05		transit begin		221 Apr 16 j 03:20	25°  15'21	
morning max el	220 May 31 j 00:20	16°  20'53	22°09'21	transit end		221 Apr 16 j 08:26	25°  07'44	
	220 Jun 10 j 15:48	0° 		desc. node		221 Apr 16 j 22:46	24°  46'14	
asc. node	220 Jun 17 j 13:11	12°  24'57		min. Earth dist.		221 Apr 18 j 02:08	24°  05'28	0.55375 AU
morning set	220 Jun 21 j 09:39	20°  14'22		morning rise		221 Apr 25 j 03:26	20°  48'44	
	220 Jun 26 j 00:30	0° 		direct		221 Apr 29 j 00:54	20°  15'31	
				morning max el		221 May 12 j 17:28	27°  00'56	23°49'48
superior conj	220 Jun 28 j 15:18	5°  32'27	1°33'57			221 May 15 j 14:57	0° 	
minimum elong	220 Jun 28 j 13:06	5°  20'49	1°33'45			221 Jun 03 j 09:03	0° 	
max. Earth dist.	220 Jul 01 j 23:01	12°  27'01	1.34507 AU	asc. node		221 Jun 04 j 10:15	2°  11'34	
evening rise	220 Jul 06 j 15:27	21°  28'31		morning set		221 Jun 05 j 21:18	5°  11'34	
	220 Jul 10 j 23:43	0° 						
desc. node	220 Jul 27 j 01:02	26°  07'55		superior conj		221 Jun 12 j 22:30	20°  20'32	1°19'06
	220 Jul 29 j 19:44	0° 		minimum elong		221 Jun 12 j 20:01	20°  07'09	1°18'46
evening max el	220 Aug 10 j 13:21	13°  46'50	27°02'24	max. Earth dist.		221 Jun 15 j 00:13	24°  11'34	1.33402 AU
retrograde	220 Aug 23 j 19:13	21°  05'25				221 Jun 17 j 11:39	0° 	
evening set	220 Aug 30 j 16:06	18°  19'55		evening rise		221 Jun 20 j 09:22	5°  56'42	
min. Earth dist.	220 Sep 03 j 13:04	14°  30'36	0.65299 AU			221 Jul 03 j 14:07	0° 	
inferior conj	220 Sep 05 j 12:47	12°  14'23	-2°35'00	desc. node		221 Jul 13 j 22:04	15°  02'30	
minimum elong	220 Sep 05 j 16:40	12°  03'15	2°33'37	evening max el		221 Jul 24 j 00:29	27°  00'04	27°24'46
morning rise	220 Sep 11 j 17:56	6°  37'51				221 Jul 27 j 11:28	0° 	
asc. node	220 Sep 13 j 12:24	6°  01'30		retrograde		221 Aug 06 j 15:21	4°  19'32	
direct	220 Sep 14 j 12:39	5°  55'55		evening set		221 Aug 13 j 19:21	1°  38'39	
morning max el	220 Sep 21 j 01:47	9°  28'49	18°13'46			221 Aug 15 j 18:48	30°  00'00	
	220 Oct 05 j 05:19	0° 		min. Earth dist.		221 Aug 17 j 10:56	28°  23'27	0.63825 AU
morning set	220 Oct 09 j 17:28	7°  24'59		inferior conj		221 Aug 19 j 23:40	25°  02'21	-3°27'04
desc. node	220 Oct 23 j 00:23	28°  55'54		minimum elong		221 Aug 20 j 04:26	25°  03'40	3°25'41
	220 Oct 23 j 16:32	0° 		morning rise		221 Aug 26 j 14:31	20°  02'05	
				direct		221 Aug 29 j 04:21	19°  03'10	
superior conj	220 Oct 24 j 08:21	1°  02'43	-0°08'48	asc. node		221 Aug 31 j 09:28	20°  01'47	
minimum elong	220 Oct 24 j 07:13	0°  58'14	0°08'39	morning max el		221 Sep 04 j 17:31	23°  09'12	17°55'17
behind sun begin	220 Oct 23 j 21:48	0° 				221 Sep 10 j 00:23	0° 	
behind sun end	220 Oct 24 j 16:38	1°  35'32		morning set		221 Sep 21 j 15:02	19°  16'57	
max. Earth dist.	220 Oct 27 j 04:40	5°  32'32	1.44936 AU			221 Sep 27 j 21:22	0° 	
evening rise	220 Nov 09 j 19:26	26°  49'38						
	220 Nov 11 j 20:21	0° 		superior conj		221 Oct 04 j 04:42	10°  29'57	0°37'19
greatest brilliancy	220 Nov 21 j 21:05	15°  28'48	-0.7m	minimum elong		221 Oct 04 j 08:32	10°  45'42	0°36'48
	220 Dec 02 j 06:39	0° 		desc. node		221 Oct 09 j 21:24	19°  42'39	
evening max el	220 Dec 04 j 04:34	2° 07'27	19°33'46	max. Earth dist.		221 Oct 09 j 21:59	19° 45'02	1.44181 AU
asc. node	220 Dec 10 j 11:40	6° 31'52				221 Oct 16 j 10:02	0°	
retrograde	220 Dec 11 j 11:39	6° 21'05		evening rise		221 Oct 20 j 04:24	5° 49'59	
evening set	220 Dec 14 j 22:55	5° 10'39				221 Nov 05 j 06:21	0°	

evening max el	221 Nov 17 j 07:09	15°  36'21	20°34'21	evening set	222 Nov 13 j 13:24	2°  47'57	
retrograde	221 Nov 25 j 09:20	20°  22'53		asc. node	222 Nov 14 j 05:48	2°  12'44	
asc. node	221 Nov 27 j 08:44	20°  00'45			222 Nov 16 j 06:58	30° 	
evening set	221 Nov 29 j 05:39	18°  57'40		inferior conj	222 Nov 18 j 21:50	26°  31'21	1°33'15
inferior conj	221 Dec 04 j 15:26	12°  49'32	2°18'35	minimum elong	222 Nov 18 j 19:51	26°  38'11	1°32'30
minimum elong	221 Dec 04 j 12:49	12°  58'23	2°17'42	min. Earth dist.	222 Nov 19 j 01:13	26°  19'37	0.67603 AU
min. Earth dist.	221 Dec 05 j 06:14	11°  59'11	0.67184 AU	morning rise	222 Nov 24 j 02:09	20°  18'47	
morning rise	221 Dec 09 j 19:48	6°  36'10		direct	222 Nov 29 j 00:19	18°  13'29	
direct	221 Dec 15 j 09:14	4°  09'08		morning max el	222 Dec 09 j 00:19	24°  09'38	22°57'34
morning max el	221 Dec 26 j 14:43	10°  50'57	24°25'29		222 Dec 14 j 04:46	0° 	
desc. node	222 Jan 05 j 20:40	23°  04'30		desc. node	222 Dec 23 j 17:42	12°  42'46	
	222 Jan 10 j 21:09	0° 			223 Jan 04 j 08:10	0° 	
	222 Jan 29 j 23:27	0° 		morning set	223 Jan 12 j 11:50	13°  05'55	
morning set	222 Jan 31 j 13:25	2°  44'35		max. Earth dist.	223 Jan 17 j 01:27	20°  48'49	1.39861 AU
max. Earth dist.	222 Feb 04 j 05:53	9°  18'06	1.37737 AU		223 Jan 22 j 06:48	0° 	
superior conj	222 Feb 11 j 03:09	22°  11'01	-1°42'29	superior conj	223 Jan 24 j 18:59	4°  33'07	-1°57'38
minimum elong	222 Feb 11 j 07:01	22°  29'41	1°42'06	minimum elong	223 Jan 24 j 21:37	4°  45'09	1°57'32
	222 Feb 15 j 03:08	0° 		evening rise	223 Feb 03 j 10:25	22°  43'51	
evening rise	222 Feb 19 j 19:07	9°  15'45			223 Feb 07 j 06:38	0° 	
asc. node	222 Feb 23 j 08:03	16°  10'50		asc. node	223 Feb 10 j 05:07	5°  20'03	
	222 Mar 03 j 08:25	0° 		evening max el	223 Feb 19 j 16:12	18°  49'15	18°29'09
evening max el	222 Mar 08 j 12:50	6°  19'25	19°08'30	retrograde	223 Feb 27 j 05:18	22°  31'39	
retrograde	222 Mar 17 j 07:15	10°  32'52		evening set	223 Mar 01 j 15:45	22°  09'42	
evening set	222 Mar 19 j 12:31	10°  17'49		inferior conj	223 Mar 09 j 01:41	17°  38'12	3°04'34
inferior conj	222 Mar 27 j 17:07	6°  06'02	1°55'23	minimum elong	223 Mar 09 j 05:33	17°  30'25	3°03'46
minimum elong	222 Mar 27 j 21:08	5°  59'11	1°54'10	min. Earth dist.	223 Mar 12 j 11:56	14°  55'05	0.58510 AU
min. Earth dist.	222 Mar 30 j 17:27	4°  03'17	0.56648 AU	morning rise	223 Mar 16 j 16:44	12°  12'16	
desc. node	222 Apr 03 j 19:50	1°  42'26		desc. node	223 Mar 21 j 16:53	10°  41'23	
morning rise	222 Apr 05 j 02:48	1°  09'39		direct	223 Mar 22 j 17:25	10°  38'41	
direct	222 Apr 10 j 02:33	0° 		morning max el	223 Apr 06 j 01:51	18°  17'08	26°46'49
morning max el	222 Apr 24 j 08:02	7°  30'26	25°27'25		223 Apr 15 j 21:04	0° 	
	222 May 10 j 22:03	0° 			223 May 03 j 08:47	0° 	
morning set	222 May 21 j 09:10	20°  09'54		morning set	223 May 05 j 19:32	5°  02'26	
asc. node	222 May 22 j 07:19	22°  07'11		asc. node	223 May 09 j 04:22	12°  13'38	
	222 May 25 j 22:50	0° 					
superior conj	222 May 28 j 08:55	5°  17'38	1°00'12	superior conj	223 May 12 j 20:37	20°  16'17	0°38'04
minimum elong	222 May 28 j 06:40	5°  05'20	0°59'48	minimum elong	223 May 12 j 19:01	20°  07'31	0°37'43
max. Earth dist.	222 May 29 j 08:49	7°  12'8'07	1.32690 AU	max. Earth dist.	223 May 12 j 21:10	20°  19'16	1.32346 AU
evening rise	222 Jun 04 j 11:28	20°  12'29'12		evening rise	223 May 17 j 07:33	0° 	
	222 Jun 09 j 06:02	0° 			223 May 19 j 18:54	5°  15'45	
	222 Jun 27 j 19:23	0° 		desc. node	223 Jun 01 j 22:40	0° 	
desc. node	222 Jun 30 j 19:06	3°  43'56		evening max el	223 Jun 17 j 16:08	20°  56'52	
evening max el	222 Jul 06 j 08:28	9°  42'29	27°16'02	retrograde	223 Jun 18 j 10:30	21°  41'28	26°34'10
retrograde	222 Jul 20 j 04:40	16°  59'20		evening set	223 Jul 02 j 10:11	28°  55'47	
evening set	222 Jul 27 j 08:13	14°  36'05		min. Earth dist.	223 Jul 09 j 02:03	27°  03'09	
min. Earth dist.	222 Jul 30 j 22:28	11°  47'00	0.62027 AU	inferior conj	223 Jul 12 j 23:44	24°  25'52	0.60000 AU
inferior conj	222 Aug 02 j 23:08	9°  00'11	-4°11'12	minimum elong	223 Jul 16 j 07:35	21°  45'59	-4°40'32
minimum elong	222 Aug 03 j 03:42	8°  49'39	4°10'17	morning rise	223 Jul 16 j 10:09	21°  40'49	4°40'19
morning rise	222 Aug 10 j 00:36	3°  59'37		direct	223 Jul 23 j 20:14	17°  07'49	
direct	222 Aug 12 j 12:10	3°  32'50		morning max el	223 Jul 26 j 07:44	16°  45'12	
asc. node	222 Aug 18 j 06:32	6°  01'04		asc. node	223 Aug 02 j 19:32	20°  23'15	18°14'25
morning max el	222 Aug 19 j 08:27	7°  00'04	17°55'08		223 Aug 05 j 03:34	22°  56'06	
	222 Sep 03 j 04:52	0° 		morning set	223 Aug 10 j 01:19	0° 	
morning set	222 Sep 04 j 09:13	2°  08'11			223 Aug 18 j 18:19	15°  42'27	
					223 Aug 26 j 09:09	0° 	
superior conj	222 Sep 15 j 04:15	21°  17'50	1°12'25	superior conj	223 Aug 28 j 05:12	3°  11'09	1°34'38
minimum elong	222 Sep 15 j 09:08	21°  38'51	1°11'52	minimum elong	223 Aug 28 j 08:37	3°  36'41	1°34'21
	222 Sep 20 j 07:47	0° 		max. Earth dist.	223 Sep 04 j 19:31	16°  42'20	1.40984 AU
max. Earth dist.	222 Sep 22 j 11:33	3°  33'27	1.42808 AU	evening rise	223 Sep 09 j 17:13	24°  42'52'42	
desc. node	222 Sep 26 j 18:25	10°  28'57			223 Sep 12 j 21:28	0° 	
evening rise	222 Sep 29 j 14:15	14°  25'08		desc. node	223 Sep 13 j 15:27	1°  11'22	
	222 Oct 09 j 10:30	0° 			223 Oct 03 j 07:09	0° 	
evening max el	222 Oct 31 j 03:56	29° 15'38	21°46'17	evening max el	223 Oct 13 j 19:32	12° 36'24	23°05'05
	222 Nov 01 j 01:55	0°		retrograde	223 Oct 24 j 00:13	18° 39'09	
retrograde	222 Nov 09 j 06:00	4° 29'49		evening set	223 Oct 28 j 20:29	16° 39'32	

asc. node	223 Nov 01 j 02:49	13°♍07'15		evening max el	224 Sep 25 j 07:54	26°♑10'02	24°24'52
inferior conj	223 Nov 03 j 05:01	10°♍18'07	0°42'58		224 Sep 29 j 17:42	0°♍	
minimum elong	223 Nov 03 j 04:01	10°♍21'32	0°42'34	retrograde	224 Oct 06 j 14:50	2°♍46'40	
min. Earth dist.	223 Nov 02 j 21:49	10°♍42'54	0.67684 AU	evening set	224 Oct 12 j 01:13	0°♍29'32	
morning rise	223 Nov 08 j 11:29	4°♍08'27			224 Oct 12 j 14:21	30°♑♑	
direct	223 Nov 12 j 19:01	2°♍25'55		min. Earth dist.	224 Oct 16 j 17:39	25°♑06'18	0.67446 AU
morning max el	223 Nov 21 j 14:44	7°♍36'21	21°33'07	inferior conj	224 Oct 17 j 11:14	24°♑07'19	-0°10'53
	223 Dec 08 j 17:41	0°♊		minimum elong	224 Oct 17 j 11:30	24°♑06'25	0°10'46
desc. node	223 Dec 10 j 14:43	2°♊45'46		transit middle	224 Oct 17 j 11:30	24°♑06'25	0°10'46
morning set	223 Dec 23 j 05:15	22°♊05'06		transit begin	224 Oct 17 j 09:27	24°♑13'19	
	223 Dec 28 j 03:24	0°♊		transit end	224 Oct 17 j 13:33	23°♑59'32	
max. Earth dist.	223 Dec 30 j 02:01	3°♊11'18	1.41898 AU	asc. node	224 Oct 17 j 23:50	23°♑25'11	
				morning rise	224 Oct 22 j 21:50	18°♑03'01	
superior conj	224 Jan 06 j 14:07	15°♊53'48	-2°02'08	direct	224 Oct 26 j 16:17	16°♑41'35	
minimum elong	224 Jan 06 j 13:22	15°♊50'32	2°02'07	morning max el	224 Nov 03 j 12:15	21°♑12'39	20°18'27
	224 Jan 14 j 12:18	0°♐			224 Nov 10 j 18:01	0°♍	
evening rise	224 Jan 17 j 13:16	5°♐32'41		desc. node	224 Nov 26 j 11:43	23°♍06'06	
asc. node	224 Jan 28 j 02:09	23°♐58'30			224 Nov 30 j 23:24	0°♊	
	224 Feb 01 j 10:55	0°♋		morning set	224 Dec 01 j 03:05	0°♊14'14	
evening max el	224 Feb 03 j 01:28	1°♋44'10	18°09'52	max. Earth dist.	224 Dec 11 j 09:46	16°♊25'18	1.43571 AU
retrograde	224 Feb 09 j 20:51	5°♋11'23					
evening set	224 Feb 12 j 12:07	4°♋40'51		superior conj	224 Dec 17 j 07:35	26°♊02'03	-1°51'17
inferior conj	224 Feb 19 j 06:26	29°♋48'23	3°40'14	minimum elong	224 Dec 17 j 01:54	25°♊38'37	1°50'55
minimum elong	224 Feb 19 j 08:19	29°♋44'01	3°40'04		224 Dec 19 j 16:56	0°♊	
	224 Feb 19 j 01:26	30°♑♐		evening rise	224 Dec 29 j 23:23	17°♊33'09	
min. Earth dist.	224 Feb 22 j 12:37	26°♋48'20	0.60610 AU		225 Jan 06 j 04:09	0°♐	
morning rise	224 Feb 26 j 02:41	24°♋02'05		asc. node	225 Jan 13 j 23:10	11°♐56'16	
direct	224 Mar 03 j 20:09	21°♋51'31		evening max el	225 Jan 16 j 13:37	14°♐55'37	18°10'06
desc. node	224 Mar 07 j 13:55	22°♋29'09		retrograde	225 Jan 23 j 01:38	18°♐21'31	
morning max el	224 Mar 18 j 01:54	29°♋40'55	27°35'16	evening set	225 Jan 25 j 21:28	17°♐41'19	
	224 Mar 18 j 09:36	0°♋		inferior conj	225 Feb 01 j 03:46	12°♐28'29	3°49'31
	224 Apr 08 j 19:09	0°♑		minimum elong	225 Feb 01 j 03:30	12°♐29'12	3°49'31
morning set	224 Apr 19 j 02:37	19°♑43'12		min. Earth dist.	225 Feb 03 j 21:45	9°♐35'33	0.62644 AU
	224 Apr 23 j 22:54	0°♌		morning rise	225 Feb 07 j 08:30	6°♐30'01	
asc. node	224 Apr 25 j 01:25	2°♌24'07		direct	225 Feb 14 j 08:21	3°♐51'38	
max. Earth dist.	224 Apr 25 j 09:24	3°♌07'44	1.32368 AU	desc. node	225 Feb 22 j 10:56	6°♐48'31	
				morning max el	225 Feb 28 j 07:27	11°♐44'47	27°47'03
superior conj	224 Apr 26 j 07:56	5°♌10'59	0°13'27		225 Mar 14 j 18:32	0°♋	
minimum elong	224 Apr 26 j 07:20	5°♌07'39	0°13'18		225 Apr 01 j 03:11	0°♑	
behind sun begin	224 Apr 26 j 04:35	4°♌52'35		morning set	225 Apr 03 j 04:17	4°♑04'42	
behind sun end	224 Apr 26 j 10:05	5°♌22'43		max. Earth dist.	225 Apr 08 j 17:35	15°♑39'37	1.32772 AU
evening rise	224 May 03 j 05:28	20°♌09'05					
	224 May 08 j 01:11	0°♐		superior conj	225 Apr 10 j 17:12	19°♑55'51	-0°12'52
	224 May 27 j 09:47	0°♑		minimum elong	225 Apr 10 j 17:48	19°♑59'09	0°12'44
evening max el	224 May 30 j 05:30	2°♑54'48	25°22'46	behind sun begin	225 Apr 10 j 14:41	19°♑42'14	
desc. node	224 Jun 03 j 13:10	6°♑30'54		behind sun end	225 Apr 10 j 20:56	20°♑16'05	
retrograde	224 Jun 13 j 06:20	10°♑04'34		asc. node	225 Apr 11 j 22:28	22°♑34'28	
evening set	224 Jun 18 j 21:08	8°♑50'48			225 Apr 15 j 08:38	0°♌	
min. Earth dist.	224 Jun 23 j 17:24	6°♑06'51	0.57966 AU	evening rise	225 Apr 17 j 17:14	5°♌02'34	
inferior conj	224 Jun 26 j 21:36	3°♑54'30	-4°44'32		225 May 01 j 02:28	0°♐	
minimum elong	224 Jun 26 j 20:02	3°♑57'16	4°44'28	evening max el	225 May 11 j 20:12	13°♐36'10	23°52'16
	224 Jul 03 j 17:43	30°♑♐		desc. node	225 May 21 j 10:11	19°♐50'45	
morning rise	224 Jul 04 j 21:35	29°♐38'41		retrograde	225 May 25 j 14:39	20°♐30'39	
direct	224 Jul 07 j 10:36	29°♐18'56		evening set	225 May 29 j 18:57	19°♐52'03	
	224 Jul 10 j 23:51	0°♑		min. Earth dist.	225 Jun 05 j 07:11	16°♐46'14	0.56248 AU
morning max el	224 Jul 15 j 23:44	3°♑19'53	18°54'08	inferior conj	225 Jun 07 j 15:32	15°♐20'08	-4°10'17
asc. node	224 Jul 22 j 00:36	10°♑48'02		minimum elong	225 Jun 07 j 09:24	15°♐29'34	4°09'10
morning set	224 Aug 01 j 13:58	29°♑47'55		morning rise	225 Jun 16 j 02:40	11°♐21'17	
	224 Aug 01 j 16:25	0°♏		direct	225 Jun 18 j 18:24	11°♐03'10	
				morning max el	225 Jun 28 j 18:19	15°♐40'57	19°54'51
superior conj	224 Aug 10 j 01:58	16°♏23'47	1°45'15	asc. node	225 Jul 08 j 21:39	29°♐24'10	
minimum elong	224 Aug 10 j 03:16	16°♏29'57	1°45'13		225 Jul 09 j 05:54	0°♑	
max. Earth dist.	224 Aug 16 j 22:50	29°♏06'04	1.38965 AU	morning set	225 Jul 16 j 17:02	14°♑16'48	
	224 Aug 17 j 10:56	0°♐			225 Jul 24 j 11:04	0°♏	
evening rise	224 Aug 20 j 20:39	5°♐57'05					
desc. node	224 Aug 30 j 12:28	21°♐45'37		superior conj	225 Jul 24 j 13:15	0°♏10'53	1°46'28
	224 Sep 04 j 22:37	0°♑		minimum elong	225 Jul 24 j 12:42	0°♏08'08	1°46'28

max. Earth dist.	225 Jul 30 j 02:52	11°♌00'45	1.37014 AU	minimum elong	226 Jul 08 j 08:56	14°♍19'49	1°40'09
evening rise	225 Aug 02 j 23:34	18°♌09'25		max. Earth dist.	226 Jul 12 j 13:37	22°♍52'18	1.35323 AU
	225 Aug 09 j 19:09	0°♍			226 Jul 16 j 05:08	0°♌	
desc. node	225 Aug 17 j 09:30	12°♍07'09		evening rise	226 Jul 16 j 21:15	1°♌16'42	
	225 Aug 30 j 04:10	0°♍			226 Aug 02 j 19:49	0°♍	
evening max el	225 Sep 07 j 19:32	9°♍47'32	25°38'19	desc. node	226 Aug 04 j 06:32	2°♍08'56	
retrograde	225 Sep 20 j 00:56	16°♍48'09		evening max el	226 Aug 21 j 07:32	23°♍23'22	26°37'40
evening set	225 Sep 26 j 01:52	14°♍15'46			226 Aug 30 j 19:59	0°♍	
min. Earth dist.	225 Sep 30 j 10:20	9°♍28'02	0.66888 AU	retrograde	226 Sep 03 j 05:50	0°♍37'13	
inferior conj	225 Oct 01 j 14:47	7°♍56'58	-1°06'49		226 Sep 06 j 10:46	30°♍	
minimum elong	225 Oct 01 j 16:28	7°♍51'32	1°06'07	evening set	226 Sep 09 j 20:18	27°♍54'22	
asc. node	225 Oct 04 j 20:51	4°♍04'27		min. Earth dist.	226 Sep 13 j 21:22	23°♍43'46	0.65986 AU
morning rise	225 Oct 07 j 07:18	2°♍00'51		inferior conj	226 Sep 15 j 13:40	21°♍43'07	-2°03'12
direct	225 Oct 10 j 14:46	0°♍57'31		minimum elong	226 Sep 15 j 16:49	21°♍33'42	2°01'59
morning max el	225 Oct 17 j 17:18	4°♍58'22	19°17'28	morning rise	226 Sep 21 j 13:47	15°♍58'27	
	225 Nov 04 j 14:04	0°♍		asc. node	226 Sep 21 j 17:54	15°♍52'58	
morning set	225 Nov 10 j 05:09	8°♍44'22		direct	226 Sep 24 j 12:33	15°♍09'37	
desc. node	225 Nov 13 j 08:45	13°♍38'56		morning max el	226 Oct 01 j 04:30	18°♍49'53	18°32'14
	225 Nov 23 j 19:05	0°♍			226 Oct 09 j 15:28	0°♍	
max. Earth dist.	225 Nov 24 j 00:12	0°♍20'12	1.44668 AU	morning set	226 Oct 21 j 07:28	18°♍30'08	
					226 Oct 28 j 12:13	0°♍	
superior conj	225 Nov 26 j 23:14	5°♍01'30	-1°21'59	desc. node	226 Oct 31 j 05:49	4°♍19'54	
minimum elong	225 Nov 26 j 14:51	4°♍28'13	1°21'07				
evening rise	225 Dec 11 j 12:34	28°♍38'20		superior conj	226 Nov 06 j 00:13	13°♍25'23	-0°37'20
	225 Dec 12 j 08:18	0°♍		minimum elong	226 Nov 05 j 19:20	13°♍06'13	0°36'42
evening max el	225 Dec 31 j 01:55	28°♍17'16	18°28'59	max. Earth dist.	226 Nov 06 j 18:47	14°♍38'25	1.45053 AU
asc. node	225 Dec 31 j 20:11	29°♍01'45			226 Nov 16 j 13:12	0°♍	
	226 Jan 01 j 23:28	0°♍		evening rise	226 Nov 22 j 02:09	8°♍45'18	
retrograde	226 Jan 06 j 15:21	1°♍53'45		greatest brilliancy	226 Dec 01 j 04:54	23°♍10'25	-0.8m
evening set	226 Jan 09 j 16:15	1°♍02'45			226 Dec 05 j 15:12	0°♍	
	226 Jan 11 j 05:15	30°♍		evening max el	226 Dec 14 j 11:54	11°♍44'04	19°05'28
inferior conj	226 Jan 15 j 13:43	25°♍31'04	3°39'35	asc. node	226 Dec 18 j 17:12	15°♍01'02	
minimum elong	226 Jan 15 j 11:55	25°♍36'21	3°39'22	retrograde	226 Dec 21 j 10:28	15°♍41'29	
min. Earth dist.	226 Jan 17 j 16:26	23°♍03'27	0.64405 AU	evening set	226 Dec 24 j 17:32	14°♍38'27	
morning rise	226 Jan 21 j 07:04	19°♍25'18		inferior conj	226 Dec 30 j 08:49	8°♍50'07	3°15'48
direct	226 Jan 28 j 03:58	16°♍34'00		minimum elong	226 Dec 30 j 06:12	8°♍58'22	3°15'15
desc. node	226 Feb 09 j 07:58	23°♍04'06		min. Earth dist.	226 Dec 31 j 20:21	6°♍58'02	0.65787 AU
morning max el	226 Feb 10 j 16:16	24°♍22'22	27°23'06	morning rise	227 Jan 04 j 18:37	2°♍39'48	
	226 Feb 15 j 18:44	0°♍			227 Jan 09 j 15:10	30°♍	
	226 Mar 08 j 03:35	0°♍		direct	227 Jan 11 j 05:55	29°♍50'02	
morning set	226 Mar 17 j 21:47	17°♍57'40			227 Jan 12 j 22:00	0°♍	
max. Earth dist.	226 Mar 22 j 17:56	27°♍43'04	1.33599 AU	morning max el	227 Jan 24 j 01:58	7°♍23'01	26°29'21
	226 Mar 23 j 20:17	0°♍		desc. node	227 Jan 27 j 05:01	10°♍43'31	
					227 Feb 10 j 16:24	0°♍	
superior conj	226 Mar 25 j 22:30	4°♍24'14	-0°39'53		227 Feb 28 j 12:23	0°♍	
minimum elong	226 Mar 26 j 00:26	4°♍34'28	0°39'29	morning set	227 Mar 01 j 03:35	1°♍11'21	
asc. node	226 Mar 29 j 19:30	12°♍40'09		max. Earth dist.	227 Mar 05 j 07:27	9°♍13'21	1.34880 AU
evening rise	226 Apr 02 j 04:25	19°♍49'24					
	226 Apr 07 j 04:57	0°♍		superior conj	227 Mar 09 j 21:39	18°♍29'22	-1°06'21
evening max el	226 Apr 23 j 12:47	24°♍11'33	22°17'04	minimum elong	227 Mar 10 j 00:47	18°♍45'31	1°05'48
	226 May 02 j 16:41	0°♍			227 Mar 15 j 10:24	0°♍	
retrograde	226 May 06 j 10:09	0°♍32'01		asc. node	227 Mar 16 j 16:34	2°♍37'01	
desc. node	226 May 08 j 07:12	0°♍24'10		evening rise	227 Mar 17 j 13:09	4°♍23'33	
evening set	226 May 09 j 07:12	0°♍13'47			227 Apr 01 j 01:35	0°♍	
	226 May 10 j 06:12	30°♍		evening max el	227 Apr 05 j 13:39	5°♍08'54	20°50'21
min. Earth dist.	226 May 17 j 19:39	26°♍34'25	0.55192 AU	retrograde	227 Apr 16 j 23:14	10°♍39'51	
inferior conj	226 May 18 j 16:19	26°♍05'16	-2°50'10	evening set	227 Apr 19 j 03:58	10°♍28'20	
minimum elong	226 May 18 j 09:18	26°♍15'10	2°48'02	desc. node	227 Apr 25 j 04:13	8°♍17'47	
morning rise	226 May 27 j 13:07	22°♍11'21		inferior conj	227 Apr 28 j 10:26	6°♍30'24	-0°56'11
direct	226 May 30 j 10:20	21°♍52'32		minimum elong	227 Apr 28 j 07:46	6°♍34'12	0°55'14
morning max el	226 Jun 11 j 01:39	27°♍18'45	21°15'33	min. Earth dist.	227 Apr 29 j 08:32	5°♍58'55	0.55037 AU
	226 Jun 13 j 16:29	0°♍		morning rise	227 May 07 j 11:06	2°♍23'03	
asc. node	226 Jun 25 j 18:43	18°♍33'07		direct	227 May 10 j 20:41	1°♍58'08	
morning set	226 Jul 01 j 00:58	29°♍01'22		morning max el	227 May 23 j 22:53	8°♍16'03	22°51'29
	226 Jul 01 j 12:18	0°♍			227 Jun 08 j 10:46	0°♍	
				asc. node	227 Jun 12 j 15:49	8°♍06'32	
superior conj	226 Jul 08 j 10:43	14°♍29'04	1°40'16	morning set	227 Jun 15 j 11:48	13°♍55'49	

superior conj	227 Jun 22 j 15:08	29° Π 08'39	1°28'13	asc. node	228 May 29 j 12:54	27° \mathcal{S} 57'10	
minimum elong	227 Jun 22 j 12:44	28° Π 55'55	1°27'56		228 May 30 j 12:13	0° Π	
	227 Jun 23 j 00:47	0° \mathcal{S}					
max. Earth dist.	227 Jun 25 j 09:44	4° \mathcal{S} 59'56	1.33994 AU	superior conj	228 Jun 05 j 23:58	14° Π 01'21	1°11'32
evening rise	227 Jun 30 j 08:59	15° \mathcal{S} 05'55		minimum elong	228 Jun 05 j 21:31	13° Π 48'06	1°11'09
	227 Jul 08 j 08:41	0° \mathcal{Q}		max. Earth dist.	228 Jun 07 j 14:23	17° Π 29'07	1.33051 AU
desc. node	227 Jul 22 j 03:33	21° \mathcal{Q} 42'31		evening rise	228 Jun 13 j 06:45	29° Π 25'13	
	227 Jul 28 j 12:54	0° \mathcal{M}			228 Jun 13 j 13:36	0° \mathcal{S}	
evening max el	227 Aug 03 j 19:19	6° \mathcal{M} 47'34	27°15'21		228 Jun 30 j 11:00	0° \mathcal{Q}	
retrograde	227 Aug 17 j 05:09	14° \mathcal{M} 06'34		desc. node	228 Jul 08 j 00:34	10° \mathcal{Q} 36'13	
evening set	227 Aug 24 j 06:00	11° \mathcal{M} 21'28		evening max el	228 Jul 16 j 05:13	19° \mathcal{Q} 48'22	27°24'59
min. Earth dist.	227 Aug 28 j 00:24	7° \mathcal{M} 47'29	0.64721 AU	retrograde	228 Jul 29 j 22:39	27° \mathcal{Q} 07'31	
inferior conj	227 Aug 30 j 05:40	5° \mathcal{M} 21'27	-2°57'45	evening set	228 Aug 06 j 03:42	24° \mathcal{Q} 32'03	
minimum elong	227 Aug 30 j 10:01	5° \mathcal{M} 09'31	2°56'19	min. Earth dist.	228 Aug 09 j 17:48	21° \mathcal{Q} 29'39	0.63095 AU
	227 Sep 05 j 07:53	30° \mathcal{R} \mathcal{Q}		inferior conj	228 Aug 12 j 12:05	18° \mathcal{Q} 46'25	-3°47'07
morning rise	227 Sep 05 j 14:50	29° \mathcal{Q} 51'34		minimum elong	228 Aug 12 j 16:57	18° \mathcal{Q} 34'25	3°45'53
direct	227 Sep 08 j 07:15	29° \mathcal{Q} 13'46		morning rise	228 Aug 19 j 07:25	13° \mathcal{Q} 34'31	
asc. node	227 Sep 08 j 14:59	29° \mathcal{Q} 14'19		direct	228 Aug 21 j 19:57	13° \mathcal{Q} 04'36	
	227 Sep 11 j 06:49	0° \mathcal{M}		asc. node	228 Aug 25 j 12:04	14° \mathcal{Q} 09'11	
morning max el	227 Sep 14 j 19:24	2° \mathcal{M} 42'21	18°03'47	morning max el	228 Aug 28 j 11:15	16° \mathcal{Q} 30'00	17°52'59
morning set	227 Oct 02 j 14:22	29° \mathcal{M} 39'30			228 Sep 07 j 00:18	0° \mathcal{M}	
	227 Oct 02 j 19:15	0° \mathcal{Q}		morning set	228 Sep 13 j 21:27	11° \mathcal{M} 58'37	
					228 Sep 24 j 07:27	0° \mathcal{Q}	
superior conj	227 Oct 16 j 08:06	22° \mathcal{Q} 14'27	0°11'47	superior conj	228 Sep 25 j 15:47	2° \mathcal{Q} 15'40	0°53'47
minimum elong	227 Oct 16 j 09:31	22° \mathcal{Q} 20'08	0°11'36	minimum elong	228 Sep 25 j 20:31	2° \mathcal{Q} 35'25	0°53'11
behind sun begin	227 Oct 16 j 02:02	21° \mathcal{Q} 50'06		max. Earth dist.	228 Oct 02 j 05:26	13° \mathcal{Q} 02'08	1.43655 AU
behind sun end	227 Oct 16 j 17:00	22° \mathcal{Q} 50'07		desc. node	228 Oct 03 j 23:52	15° \mathcal{Q} 52'16	
desc. node	227 Oct 18 j 02:51	25° \mathcal{Q} 05'16		evening rise	228 Oct 11 j 01:36	26° \mathcal{Q} 58'57	
max. Earth dist.	227 Oct 20 j 13:38	28° \mathcal{Q} 58'38	1.44696 AU		228 Oct 13 j 00:34	0° \mathcal{M}	
	227 Oct 21 j 05:10	0° \mathcal{M}			228 Nov 02 j 12:50	0° \mathcal{J}	
evening rise	227 Nov 01 j 18:34	18° \mathcal{M} 01'54		evening max el	228 Nov 09 j 17:29	8° \mathcal{J} 40'18	21°03'47
	227 Nov 09 j 13:32	0° \mathcal{J}		retrograde	228 Nov 18 j 05:33	13° \mathcal{J} 43'05	
greatest brilliancy	227 Nov 15 j 12:02	8° \mathcal{J} 57'14	-0.6m	asc. node	228 Nov 21 j 11:18	12° \mathcal{J} 43'53	
evening max el	227 Nov 27 j 17:28	25° \mathcal{J} 11'55	19°57'55	evening set	228 Nov 22 j 06:15	12° \mathcal{J} 11'03	
retrograde	227 Dec 05 j 07:58	29° \mathcal{J} 38'57		inferior conj	228 Nov 27 j 15:15	5° \mathcal{J} 58'40	2°00'05
asc. node	227 Dec 05 j 14:15	29° \mathcal{J} 38'34		minimum elong	228 Nov 27 j 12:51	6° \mathcal{J} 06'53	1°59'14
evening set	227 Dec 08 j 22:53	28° \mathcal{J} 22'18		min. Earth dist.	228 Nov 28 j 01:03	5° \mathcal{J} 24'57	0.67397 AU
inferior conj	227 Dec 14 j 10:06	22° \mathcal{J} 20'16	2°41'48	morning rise	228 Dec 02 j 19:17	29° \mathcal{M} 45'09	
minimum elong	227 Dec 14 j 07:21	22° \mathcal{J} 29'28	2°40'59		228 Dec 02 j 12:44	30° \mathcal{R} \mathcal{M}	
min. Earth dist.	227 Dec 15 j 07:58	21° \mathcal{J} 07'23	0.66776 AU	direct	228 Dec 08 j 02:07	27° \mathcal{M} 27'05	
morning rise	227 Dec 19 j 15:38	16° \mathcal{J} 07'20			228 Dec 14 j 10:33	0° \mathcal{J}	
direct	227 Dec 25 j 13:28	13° \mathcal{J} 30'01		morning max el	228 Dec 18 j 19:30	3° \mathcal{J} 50'50	23°48'12
morning max el	228 Jan 06 j 10:54	20° \mathcal{J} 34'37	25°14'23	desc. node	228 Dec 30 j 23:06	18° \mathcal{J} 41'26	
desc. node	228 Jan 14 j 02:04	29° \mathcal{J} 21'35			229 Jan 07 j 20:25	0° \mathcal{S}	
	228 Jan 14 j 14:07	0° \mathcal{S}		morning set	229 Jan 23 j 07:00	24° \mathcal{S} 39'45	
	228 Feb 03 j 20:49	0° \approx			229 Jan 26 j 08:57	0° \approx	
morning set	228 Feb 11 j 16:41	13° \approx 30'50		max. Earth dist.	229 Jan 27 j 04:47	1° \approx 27'28	1.38628 AU
max. Earth dist.	228 Feb 15 j 09:36	20° \approx 18'41	1.36593 AU				
	228 Feb 20 j 10:52	0° \mathcal{H}		superior conj	229 Feb 03 j 12:55	14° \approx 53'16	-1°49'56
superior conj	228 Feb 21 j 11:41	2° \mathcal{H} 02'12	-1°30'32	minimum elong	229 Feb 03 j 16:29	15° \approx 10'08	1°49'40
minimum elong	228 Feb 21 j 15:33	2° \mathcal{H} 21'23	1°30'02		229 Feb 11 j 08:33	0° \mathcal{H}	
evening rise	228 Feb 29 j 17:12	18° \mathcal{H} 37'25		evening rise	229 Feb 12 j 14:01	2° \mathcal{H} 24'06	
asc. node	228 Mar 02 j 13:37	22° \mathcal{H} 19'41		asc. node	229 Feb 17 j 10:39	11° \mathcal{H} 42'48	
	228 Mar 06 j 13:18	0° \mathcal{Y}		evening max el	229 Mar 01 j 00:22	28° \mathcal{H} 54'31	18°49'18
evening max el	228 Mar 18 j 01:45	16° \mathcal{Y} 42'51	19°40'04		229 Mar 02 j 05:36	0° \mathcal{Y}	
retrograde	228 Mar 27 j 18:14	21° \mathcal{Y} 22'04		retrograde	229 Mar 09 j 05:04	2° \mathcal{Y} 52'46	
evening set	228 Mar 29 j 20:56	21° \mathcal{Y} 09'46		evening set	229 Mar 11 j 12:21	2° \mathcal{Y} 35'11	
inferior conj	228 Apr 07 j 12:28	17° \mathcal{Y} 06'21	0°59'38		229 Mar 16 j 21:31	30° \mathcal{R} \mathcal{H}	
minimum elong	228 Apr 07 j 14:57	17° \mathcal{Y} 02'26	0°58'47	inferior conj	229 Mar 19 j 08:50	28° \mathcal{H} 15'45	2°29'04
min. Earth dist.	228 Apr 09 j 22:54	15° \mathcal{Y} 34'36	0.55825 AU	minimum elong	229 Mar 19 j 13:09	28° \mathcal{H} 07'51	2°27'56
desc. node	228 Apr 11 j 01:16	14° \mathcal{Y} 54'58		min. Earth dist.	229 Mar 22 j 15:34	25° \mathcal{H} 53'00	0.57387 AU
morning rise	228 Apr 16 j 06:26	12° \mathcal{Y} 28'55		morning rise	229 Mar 27 j 10:55	23° \mathcal{H} 05'25	
direct	228 Apr 20 j 14:17	11° \mathcal{Y} 47'03		desc. node	229 Mar 28 j 22:18	22° \mathcal{H} 31'51	
morning max el	228 May 04 j 14:21	18° \mathcal{Y} 48'35	24°32'37	direct	229 Apr 01 j 21:54	21° \mathcal{H} 52'57	
	228 May 13 j 22:05	0° \mathcal{B}		morning max el	229 Apr 16 j 05:48	29° \mathcal{H} 22'27	26°04'13
morning set	228 May 29 j 23:45	28° \mathcal{B} 54'10			229 Apr 16 j 21:04	0° \mathcal{Y}	

	229 May 07 j 12:31	0°♄		morning set	230 Apr 28 j 20:22	28°♄39'08	
morning set	229 May 14 j 11:09	13°♄50'28			230 Apr 29 j 11:49	0°♄	
asc. node	229 May 16 j 09:56	17°♄59'13		asc. node	230 May 03 j 06:57	8°♄08'12	
superior conj	229 May 21 j 11:08	28°♄59'50	0°51'10	superior conj	230 May 05 j 22:54	13°♄58'11	0°27'53
minimum elong	229 May 21 j 09:07	28°♄48'46	0°50'46	minimum elong	230 May 05 j 21:41	13°♄51'31	0°27'38
	229 May 21 j 22:06	0°♄		max. Earth dist.	230 May 05 j 13:32	13°♄06'44	1.32311 AU
max. Earth dist.	229 May 22 j 00:48	0°♄14'45	1.32495 AU	evening rise	230 May 12 j 20:26	28°♄55'35	
evening rise	229 May 28 j 11:23	14°♄04'29			230 May 13 j 08:42	0°♄	
	229 Jun 05 j 14:56	0°♄			230 May 30 j 01:30	0°♄	
desc. node	229 Jun 24 j 21:37	28°♄32'41		evening max el	230 Jun 10 j 10:08	13°♄53'36	26°07'03
	229 Jun 26 j 05:48	0°♄		desc. node	230 Jun 11 j 18:37	15°♄08'07	
evening max el	229 Jun 28 j 10:51	2°♄13'04	27°02'16	retrograde	230 Jun 24 j 10:55	21°♄06'01	
retrograde	229 Jul 12 j 09:10	9°♄29'38		evening set	230 Jun 30 j 17:33	19°♄29'52	
evening set	229 Jul 19 j 09:04	7°♄17'55		min. Earth dist.	230 Jul 04 j 22:56	16°♄51'40	0.59122 AU
min. Earth dist.	229 Jul 23 j 01:00	4°♄35'50	0.61175 AU	inferior conj	230 Jul 08 j 06:41	14°♄21'13	-4°46'06
inferior conj	229 Jul 26 j 05:37	1°♄49'25	-4°26'02	minimum elong	230 Jul 08 j 07:43	14°♄19'14	4°46'05
minimum elong	229 Jul 26 j 09:36	1°♄40'43	4°25'26	morning rise	230 Jul 16 j 00:05	9°♄52'22	
	229 Jul 28 j 09:26	30°♄		direct	230 Jul 18 j 12:06	9°♄31'04	
morning rise	229 Aug 02 j 11:49	26°♄58'12		morning max el	230 Jul 26 j 09:26	13°♄17'33	18°28'39
direct	229 Aug 04 j 22:56	26°♄33'34		asc. node	230 Jul 30 j 06:10	17°♄45'53	
	229 Aug 11 j 23:06	0°♄			230 Aug 06 j 18:34	0°♄	
morning max el	229 Aug 12 j 00:57	0°♄04'29	18°00'52	morning set	230 Aug 11 j 12:40	8°♄58'39	
asc. node	229 Aug 12 j 09:08	0°♄24'45					
morning set	229 Aug 27 j 22:35	25°♄09'33		superior conj	230 Aug 20 j 12:48	26°♄07'23	1°40'24
	229 Aug 30 j 13:35	0°♄		minimum elong	230 Aug 20 j 15:20	26°♄19'06	1°40'16
					230 Aug 22 j 15:24	0°♄	
superior conj	229 Sep 07 j 02:42	13°♄37'01	1°23'22	max. Earth dist.	230 Aug 27 j 21:53	9°♄22'33	1.40143 AU
minimum elong	229 Sep 07 j 07:09	13°♄56'36	1°22'56	evening rise	230 Sep 01 j 06:19	16°♄46'39	
max. Earth dist.	229 Sep 14 j 16:08	26°♄32'50	1.42069 AU	desc. node	230 Sep 07 j 17:56	27°♄16'48	
	229 Sep 16 j 18:23	0°♄			230 Sep 09 j 11:43	0°♄	
evening rise	229 Sep 20 j 17:08	6°♄22'18			230 Sep 30 j 22:23	0°♄	
desc. node	229 Sep 20 j 20:54	6°♄37'18		evening max el	230 Oct 06 j 02:00	5°♄41'53	23°39'20
	229 Oct 06 j 07:07	0°♄		retrograde	230 Oct 16 j 17:57	11°♄59'14	
evening max el	229 Oct 23 j 11:52	22°♄09'37	22°19'20	evening set	230 Oct 21 j 20:08	9°♄52'13	
retrograde	229 Nov 02 j 01:18	27°♄50'41		asc. node	230 Oct 26 j 05:22	4°♄51'07	
evening set	229 Nov 06 j 13:53	26°♄01'35		min. Earth dist.	230 Oct 26 j 17:37	4°♄09'34	0.67630 AU
asc. node	229 Nov 08 j 08:21	24°♄19'05		inferior conj	230 Oct 27 j 05:10	3°♄30'12	0°20'30
inferior conj	229 Nov 11 j 22:11	19°♄42'32	1°12'29	minimum elong	230 Oct 27 j 04:40	3°♄31'53	0°20'16
minimum elong	229 Nov 11 j 20:35	19°♄48'05	1°11'50		230 Oct 29 j 21:43	30°♄	
min. Earth dist.	229 Nov 11 j 21:05	19°♄46'20	0.67676 AU	morning rise	230 Nov 01 j 13:09	27°♄22'31	
morning rise	229 Nov 17 j 03:08	13°♄30'41		direct	230 Nov 05 j 15:01	25°♄49'03	
direct	229 Nov 21 j 18:58	11°♄34'54			230 Nov 13 j 06:55	0°♄	
morning max el	229 Dec 01 j 06:33	17°♄11'28	22°20'42	morning max el	230 Nov 13 j 23:39	0°♄41'12	20°59'47
	229 Dec 11 j 18:46	0°♄		desc. node	230 Dec 04 j 17:09	28°♄41'51	
desc. node	229 Dec 17 j 20:08	8°♄30'55			230 Dec 05 j 13:56	0°♄	
	229 Dec 31 j 23:07	0°♄		morning set	230 Dec 13 j 23:38	12°♄54'24	
morning set	230 Jan 03 j 16:51	4°♄24'25		max. Earth dist.	230 Dec 22 j 05:00	26°♄01'38	1.42672 AU
max. Earth dist.	230 Jan 09 j 01:12	13°♄15'41	1.40752 AU		230 Dec 24 j 15:07	0°♄	
superior conj	230 Jan 16 j 20:36	26°♄50'40	-2°01'09	superior conj	230 Dec 29 j 05:17	7°♄41'10	-1°59'40
minimum elong	230 Jan 16 j 22:05	26°♄57'15	2°01'06	minimum elong	230 Dec 29 j 02:29	7°♄29'19	1°59'34
	230 Jan 18 j 14:37	0°♄		evening rise	231 Jan 09 j 20:39	28°♄04'33	
evening rise	230 Jan 27 j 00:26	15°♄35'54			231 Jan 10 j 22:25	0°♄	
	230 Feb 03 j 22:16	0°♄		asc. node	231 Jan 22 j 04:41	19°♄01'48	
asc. node	230 Feb 04 j 07:40	0°♄39'47		evening max el	231 Jan 26 j 17:34	24°♄39'08	18°07'40
evening max el	230 Feb 12 j 06:43	11°♄36'34	18°18'38	retrograde	231 Feb 02 j 08:28	28°♄04'02	
retrograde	230 Feb 19 j 10:45	15°♄10'16		evening set	231 Feb 05 j 01:48	27°♄29'20	
evening set	230 Feb 21 j 23:25	14°♄44'45		inferior conj	231 Feb 11 j 14:32	22°♄27'51	3°46'58
inferior conj	230 Mar 01 j 02:18	10°♄04'38	3°23'25	minimum elong	231 Feb 11 j 15:27	22°♄25'35	3°46'55
minimum elong	230 Mar 01 j 05:26	9°♄57'55	3°22'54	min. Earth dist.	231 Feb 14 j 16:05	19°♄28'27	0.61497 AU
min. Earth dist.	230 Mar 04 j 12:22	7°♄11'07	0.59393 AU	morning rise	231 Feb 18 j 03:43	16°♄35'53	
morning rise	230 Mar 08 j 09:08	4°♄29'09		direct	231 Feb 25 j 01:12	14°♄12'09	
direct	230 Mar 14 j 18:27	2°♄39'01		desc. node	231 Mar 02 j 16:21	15°♄37'37	
desc. node	230 Mar 15 j 19:19	2°♄41'52		morning max el	231 Mar 11 j 04:19	22°♄03'05	27°44'58
morning max el	230 Mar 29 j 01:53	10°♄22'56	27°11'39		231 Mar 18 j 04:13	0°♄	
	230 Apr 13 j 05:40	0°♄			231 Apr 06 j 07:08	0°♄	

morning set	231 Apr 13 j 01:24	13° Υ 12'23		desc. node	232 Feb 17 j 13:23	0° \approx 50'50	
max. Earth dist.	231 Apr 19 j 00:42	25° Υ 50'30	1.32495 AU	morning max el	232 Feb 21 j 11:51	4° \approx 23'15	27°41'06
					232 Mar 11 j 18:36	0° \mathcal{H}	
superior conj	231 Apr 20 j 09:32	28° Υ 49'09	0°02'28	morning set	232 Mar 26 j 23:59	27° \mathcal{H} 22'41	
minimum elong	231 Apr 20 j 09:25	28° Υ 48'32	0°02'27		232 Mar 28 j 07:15	0° Υ	
behind sun begin	231 Apr 20 j 04:23	28° Υ 21'02		max. Earth dist.	232 Apr 01 j 06:12	8° Υ 12'06	1.33072 AU
behind sun end	231 Apr 20 j 14:28	29° Υ 16'04					
asc. node	231 Apr 20 j 03:59	28° Υ 18'53		superior conj	232 Apr 03 j 17:20	13° Υ 27'16	-0°24'18
	231 Apr 20 j 22:31	0° \mathcal{B}		minimum elong	232 Apr 03 j 18:30	13° Υ 33'33	0°24'03
evening rise	231 Apr 27 j 07:44	13° \mathcal{B} 49'52		asc. node	232 Apr 06 j 01:02	18° Υ 27'24	
	231 May 05 j 11:28	0° Π		evening rise	232 Apr 10 j 19:29	28° Υ 40'56	
evening max el	231 May 23 j 02:50	24° Π 50'57	24°45'47		232 Apr 11 j 10:31	0° \mathcal{B}	
desc. node	231 May 29 j 15:38	29° Π 49'48			232 Apr 28 j 20:41	0° Π	
	231 May 29 j 23:10	0° \mathcal{B}		evening max el	232 May 03 j 17:12	5° Π 24'43	23°11'22
retrograde	231 Jun 06 j 01:49	1° \mathcal{B} 55'18		desc. node	232 May 15 j 12:39	12° Π 01'28	
evening set	231 Jun 11 j 02:49	0° \mathcal{B} 57'40		retrograde	232 May 17 j 04:36	12° Π 07'46	
	231 Jun 13 j 07:15	30° \mathcal{R} Π		evening set	232 May 20 j 18:31	11° Π 39'37	
min. Earth dist.	231 Jun 16 j 14:13	28° Π 06'11	0.57187 AU	min. Earth dist.	232 May 28 j 02:52	8° Π 21'06	0.55702 AU
inferior conj	231 Jun 19 j 12:09	26° Π 11'46	-4°35'24	inferior conj	232 May 29 j 21:55	7° Π 18'05	-3°41'46
minimum elong	231 Jun 19 j 08:29	26° Π 17'49	4°35'01	minimum elong	232 May 29 j 14:44	7° Π 28'39	3°40'03
morning rise	231 Jun 27 j 16:55	22° Π 04'05		morning rise	232 Jun 07 j 13:37	3° Π 23'42	
direct	231 Jun 30 j 07:12	21° Π 45'02		direct	232 Jun 10 j 07:05	3° Π 05'48	
morning max el	231 Jul 09 j 09:45	25° Π 59'31	19°17'21	morning max el	232 Jun 20 j 23:39	8° Π 02'32	20°26'58
	231 Jul 13 j 00:31	0° \mathcal{B}		asc. node	232 Jul 03 j 00:16	24° Π 48'46	
asc. node	231 Jul 17 j 03:12	5° \mathcal{B} 57'48			232 Jul 05 j 18:45	0° \mathcal{B}	
morning set	231 Jul 26 j 11:50	23° \mathcal{B} 15'04		morning set	232 Jul 09 j 17:13	7° \mathcal{B} 51'13	
	231 Jul 29 j 20:54	0° \mathcal{Q}					
superior conj	231 Aug 03 j 16:21	9° \mathcal{Q} 30'32	1°46'48	superior conj	232 Jul 17 j 08:25	23° \mathcal{B} 32'16	1°44'39
minimum elong	231 Aug 03 j 16:47	9° \mathcal{Q} 32'43	1°46'47	minimum elong	232 Jul 17 j 07:16	23° \mathcal{B} 26'25	1°44'36
max. Earth dist.	231 Aug 10 j 01:14	21° \mathcal{Q} 33'03	1.38120 AU	max. Earth dist.	232 Jul 20 j 13:55	0° \mathcal{Q}	
evening rise	231 Aug 13 j 20:10	28° \mathcal{Q} 20'39		evening rise	232 Jul 22 j 07:23	3° \mathcal{Q} 22'34	1.36252 AU
	231 Aug 14 j 18:54	0° \mathcal{M}			232 Jul 26 j 07:36	10° \mathcal{Q} 57'31	
desc. node	231 Aug 25 j 14:58	17° \mathcal{M} 46'18		desc. node	232 Aug 06 j 08:30	0° \mathcal{M}	
	231 Sep 02 j 21:37	0° \mathcal{L}			232 Aug 11 j 12:00	8° \mathcal{M} 00'14	
evening max el	231 Sep 18 j 13:52	19° \mathcal{L} 17'33	24°57'18	evening max el	232 Aug 28 j 05:41	0° \mathcal{L}	
retrograde	231 Sep 30 j 06:37	26° \mathcal{L} 05'07		retrograde	232 Aug 31 j 01:21	2° \mathcal{L} 54'15	26°05'42
evening set	231 Oct 05 j 23:22	23° \mathcal{L} 40'55		evening set	232 Sep 12 j 14:40	10° \mathcal{L} 02'20	
min. Earth dist.	231 Oct 10 j 12:19	18° \mathcal{L} 32'50	0.67254 AU	min. Earth dist.	232 Sep 18 j 21:41	7° \mathcal{L} 24'22	
inferior conj	231 Oct 11 j 10:28	17° \mathcal{L} 19'50	-0°34'27	inferior conj	232 Sep 23 j 02:48	2° \mathcal{L} 52'33	0.66545 AU
minimum elong	231 Oct 11 j 11:19	17° \mathcal{L} 17'01	0°34'05	minimum elong	232 Sep 24 j 12:16	1° \mathcal{L} 08'11	-1°30'51
asc. node	231 Oct 13 j 02:24	15° \mathcal{L} 11'05			232 Sep 24 j 14:36	1° \mathcal{L} 00'56	1°29'54
morning rise	231 Oct 16 j 23:23	11° \mathcal{L} 18'56		asc. node	232 Sep 25 j 10:19	30° \mathcal{R} \mathcal{M}	
direct	231 Oct 20 j 12:57	10° \mathcal{L} 05'38		morning rise	232 Sep 28 j 23:28	26° \mathcal{M} 14'49	
morning max el	231 Oct 28 j 00:34	14° \mathcal{L} 22'13	19°50'43	direct	232 Sep 30 j 07:52	25° \mathcal{M} 16'49	
	231 Nov 08 j 23:10	0° \mathcal{M}		morning max el	232 Oct 03 j 11:15	24° \mathcal{M} 20'16	
desc. node	231 Nov 21 j 14:12	19° \mathcal{M} 08'19			232 Oct 10 j 08:35	28° \mathcal{M} 11'19	18°56'15
morning set	231 Nov 22 j 20:12	21° \mathcal{M} 04'07			232 Oct 12 j 00:34	0° \mathcal{L}	
	231 Nov 28 j 14:03	0° \mathcal{X}		morning set	232 Nov 01 j 07:00	0° \mathcal{M} 02'19	
max. Earth dist.	231 Dec 04 j 16:32	9° \mathcal{X} 37'44	1.44119 AU		232 Nov 01 j 06:25	0° \mathcal{M}	
superior conj	231 Dec 09 j 11:17	17° \mathcal{X} 18'19	-1°41'07	desc. node	232 Nov 07 j 11:15	9° \mathcal{M} 45'01	
minimum elong	231 Dec 09 j 03:51	16° \mathcal{X} 48'13	1°40'31	max. Earth dist.	232 Nov 16 j 08:56	23° \mathcal{M} 44'03	1.44917 AU
	231 Dec 17 j 04:24	0° \mathcal{Z}		superior conj	232 Nov 17 j 18:27	25° \mathcal{M} 56'02	-1°04'24
evening rise	231 Dec 22 j 22:26	9° \mathcal{Z} 42'52		minimum elong	232 Nov 17 j 10:48	25° \mathcal{M} 25'55	1°03'30
	232 Jan 04 j 03:41	0° \approx			232 Nov 20 j 08:16	0° \mathcal{X}	
asc. node	232 Jan 09 j 01:43	6° \approx 38'57		evening rise	232 Dec 03 j 01:44	20° \mathcal{X} 23'14	
evening max el	232 Jan 10 j 06:04	7° \approx 55'24	18°15'51		232 Dec 08 j 23:45	0° \mathcal{Z}	
retrograde	232 Jan 16 j 17:43	11° \approx 24'42		evening max el	232 Dec 23 j 17:35	21° \mathcal{Z} 19'11	18°42'24
evening set	232 Jan 19 j 15:35	10° \approx 40'01		asc. node	232 Dec 25 j 22:46	23° \mathcal{Z} 17'58	
inferior conj	232 Jan 25 j 17:45	5° \approx 18'37	3°47'18	retrograde	232 Dec 30 j 10:13	25° \mathcal{Z} 03'49	
minimum elong	232 Jan 25 j 16:44	5° \approx 21'25	3°47'14	evening set	233 Jan 02 j 13:27	24° \mathcal{Z} 08'03	
min. Earth dist.	232 Jan 28 j 05:14	2° \approx 34'55	0.63430 AU	inferior conj	233 Jan 08 j 08:00	18° \mathcal{Z} 28'55	3°30'54
	232 Jan 30 j 20:15	30° \mathcal{R} \mathcal{Z}		minimum elong	233 Jan 08 j 05:46	18° \mathcal{Z} 35'43	3°30'33
morning rise	232 Jan 31 j 17:07	29° \mathcal{Z} 16'27		min. Earth dist.	233 Jan 10 j 04:10	16° \mathcal{Z} 15'23	0.65039 AU
direct	232 Feb 07 j 16:30	26° \mathcal{Z} 31'03		morning rise	233 Jan 13 j 21:40	12° \mathcal{Z} 20'39	
	232 Feb 16 j 10:43	0° \approx		direct	233 Jan 20 j 15:01	9° \mathcal{Z} 28'16	
				morning max el	233 Feb 02 j 21:29	17° \mathcal{Z} 12'31	27°03'23

desc. node	233 Feb 03 j 10:26	17°♄45'19		direct	234 Jan 03 j 19:39	22°♄55'28	
	233 Feb 13 j 14:23	0°♄			234 Jan 15 j 23:25	0°♄	
	233 Mar 04 j 15:02	0°♄		morning max el	234 Jan 16 j 06:47	0°♄18'25	25°59'18
morning set	233 Mar 10 j 13:02	11°♄00'23		desc. node	234 Jan 21 j 07:29	5°♄52'05	
max. Earth dist.	233 Mar 15 j 02:07	20°♄00'39	1.34083 AU		234 Feb 07 j 13:08	0°♄	
				morning set	234 Feb 21 j 12:23	23°♄52'53	
superior conj	233 Mar 18 j 20:19	27°♄46'13	-0°51'16		234 Feb 24 j 18:21	0°♄	
minimum elong	233 Mar 18 j 22:47	27°♄59'11	0°50'48	max. Earth dist.	234 Feb 25 j 10:09	1°♄16'00	1.35555 AU
	233 Mar 19 j 21:47	0°♄					
asc. node	233 Mar 23 j 22:06	8°♄29'37		superior conj	234 Mar 02 j 15:59	11°♄38'48	-1°17'01
evening rise	233 Mar 26 j 05:51	13°♄22'39		minimum elong	234 Mar 02 j 19:31	11°♄56'42	1°16'29
	233 Apr 03 j 19:01	0°♄		evening rise	234 Mar 10 j 12:51	27°♄48'42	
evening max el	233 Apr 15 j 12:35	16°♄06'17	21°38'35	asc. node	234 Mar 10 j 19:09	28°♄20'55	
retrograde	233 Apr 27 j 20:39	22°♄07'31			234 Mar 11 j 14:38	0°♄	
evening set	233 Apr 30 j 08:19	21°♄53'34		evening max el	234 Mar 28 j 18:17	27°♄18'55	20°18'14
desc. node	233 May 02 j 09:39	21°♄22'21			234 Apr 01 j 01:11	0°♄	
inferior conj	233 May 09 j 18:13	17°♄51'30	-2°04'20	retrograde	234 Apr 08 j 10:15	2°♄26'39	
minimum elong	233 May 09 j 12:34	17°♄59'25	2°02'27	evening set	234 Apr 10 j 12:45	2°♄15'32	
min. Earth dist.	233 May 09 j 15:43	17°♄55'00	0.54998 AU		234 Apr 16 j 13:45	30°♄	
morning rise	233 May 18 j 17:40	13°♄54'03		desc. node	234 Apr 19 j 06:41	28°♄28'16	
direct	233 May 21 j 18:41	13°♄33'43		inferior conj	234 Apr 19 j 13:58	28°♄17'33	-0°05'14
morning max el	233 Jun 03 j 02:32	19°♄22'55	21°55'02	minimum elong	234 Apr 19 j 13:44	28°♄17'55	0°05'08
	233 Jun 11 j 18:26	0°♄		transit middle	234 Apr 19 j 13:44	28°♄17'55	0°05'08
asc. node	233 Jun 19 j 21:22	14°♄09'14		transit begin	234 Apr 19 j 09:55	28°♄23'32	
morning set	233 Jun 24 j 02:38	22°♄40'58		transit end	234 Apr 19 j 17:33	28°♄12'17	
	233 Jun 27 j 14:06	0°♄		min. Earth dist.	234 Apr 21 j 05:19	27°♄19'42	0.55257 AU
				morning rise	234 Apr 28 j 13:06	23°♄58'36	
superior conj	233 Jul 01 j 09:14	8°♄01'21	1°35'48	direct	234 May 02 j 07:18	23°♄27'51	
minimum elong	233 Jul 01 j 07:07	7°♄50'15	1°35'36		234 May 15 j 17:43	0°♄	
max. Earth dist.	233 Jul 04 j 21:44	15°♄18'28	1.34704 AU	morning max el	234 May 15 j 20:30	0°♄06'32	23°34'41
evening rise	233 Jul 09 j 11:52	24°♄24'56			234 Jun 04 j 20:44	0°♄	
	233 Jul 12 j 10:41	0°♄		asc. node	234 Jun 06 j 18:25	3°♄50'37	
desc. node	233 Jul 29 j 09:01	27°♄51'43		morning set	234 Jun 08 j 14:08	7°♄37'38	
	233 Jul 30 j 21:08	0°♄					
evening max el	233 Aug 13 j 13:21	16°♄26'55	26°56'46	superior conj	234 Jun 15 j 15:48	22°♄47'24	1°21'39
retrograde	233 Aug 26 j 17:31	23°♄44'36		minimum elong	234 Jun 15 j 13:19	22°♄34'05	1°21'19
evening set	233 Sep 02 j 12:49	20°♄59'33		max. Earth dist.	234 Jun 17 j 21:44	27°♄35'26	1.33544 AU
min. Earth dist.	233 Sep 06 j 10:49	17°♄04'40	0.65489 AU		234 Jun 19 j 01:09	0°♄	
inferior conj	233 Sep 08 j 08:34	14°♄52'19	-2°26'46	evening rise	234 Jun 23 j 04:19	8°♄28'38	
minimum elong	233 Sep 08 j 12:17	14°♄41'35	2°25'24		234 Jul 04 j 21:32	0°♄	
morning rise	233 Sep 14 j 12:23	9°♄13'27		desc. node	234 Jul 16 j 06:03	17°♄10'11	
asc. node	233 Sep 15 j 20:32	8°♄41'56		evening max el	234 Jul 27 j 00:49	29°♄43'44	27°23'17
direct	233 Sep 17 j 08:02	8°♄29'52			234 Jul 27 j 07:41	0°♄	
morning max el	233 Sep 23 j 21:43	12°♄04'31	18°17'56	retrograde	234 Aug 09 j 14:27	7°♄02'54	
	233 Oct 06 j 12:35	0°♄		evening set	234 Aug 16 j 17:51	4°♄20'39	
morning set	233 Oct 12 j 21:41	10°♄24'38		min. Earth dist.	234 Aug 20 j 10:07	1°♄00'42	0.64071 AU
desc. node	233 Oct 25 j 08:18	0°♄28'27			234 Aug 21 j 09:28	30°♄	
	233 Oct 25 j 01:09	0°♄		inferior conj	234 Aug 22 j 20:52	28°♄26'18	-3°19'35
				minimum elong	234 Aug 23 j 01:33	28°♄13'58	3°18'10
superior conj	233 Oct 27 j 19:42	4°♄23'38	-0°16'16	morning rise	234 Aug 29 j 10:12	23°♄03'19	
minimum elong	233 Oct 27 j 17:35	4°♄15'15	0°15'59	direct	234 Sep 01 j 00:40	22°♄29'11	
behind sun begin	233 Oct 27 j 15:31	4°♄07'06		asc. node	234 Sep 02 j 17:36	22°♄44'02	
behind sun end	233 Oct 27 j 19:38	4°♄23'24		morning max el	234 Sep 07 j 13:18	25°♄55'35	17°56'53
max. Earth dist.	233 Oct 30 j 03:28	8°♄03'29	1.44992 AU		234 Sep 10 j 23:57	0°♄	
evening rise	233 Nov 13 j 05:27	0°♄06'13		morning set	234 Sep 24 j 15:41	22°♄06'30	
	233 Nov 13 j 03:52	0°♄			234 Sep 29 j 06:52	0°♄	
greatest brilliancy	233 Nov 24 j 14:37	17°♄47'37	-0.7m				
	233 Dec 03 j 01:09	0°♄		superior conj	234 Oct 07 j 12:26	13°♄40'01	0°30'57
evening max el	233 Dec 07 j 01:56	4°♄46'48	19°26'00	minimum elong	234 Oct 07 j 15:47	13°♄53'37	0°30'29
asc. node	233 Dec 12 j 19:49	8°♄44'11		desc. node	234 Oct 12 j 05:21	21°♄15'08	
retrograde	233 Dec 14 j 06:35	8°♄55'52		max. Earth dist.	234 Oct 12 j 21:23	22°♄19'04	1.44339 AU
evening set	233 Dec 17 j 16:43	7°♄47'25			234 Oct 17 j 18:12	0°♄	
inferior conj	233 Dec 23 j 06:04	1°♄53'08	3°02'25	evening rise	234 Oct 23 j 15:54	9°♄09'55	
minimum elong	233 Dec 23 j 03:19	2°♄02'03	3°01'44		234 Nov 06 j 10:29	0°♄	
min. Earth dist.	233 Dec 24 j 11:41	0°♄17'14	0.66260 AU	evening max el	234 Nov 20 j 05:20	18°♄15'46	20°24'33
	233 Dec 24 j 17:04	30°♄		retrograde	234 Nov 28 j 04:15	22°♄56'56	
morning rise	233 Dec 28 j 13:40	25°♄41'24		asc. node	234 Nov 29 j 16:50	22°♄43'44	

evening set	234 Dec 01 j 23:09	21°♊33'54		inferior conj	235 Nov 21 j 15:20	29°♍08'11	1°40'31
inferior conj	234 Dec 07 j 09:15	15°♊27'16	2°24'55	minimum elong	235 Nov 21 j 13:15	29°♍15'27	1°39'42
minimum elong	234 Dec 07 j 06:35	15°♊36'17	2°24'03	min. Earth dist.	235 Nov 21 j 20:19	28°♍50'58	0.67559 AU
min. Earth dist.	234 Dec 08 j 01:50	14°♊31'11	0.67091 AU	morning rise	235 Nov 26 j 19:31	22°♍55'21	
morning rise	234 Dec 12 j 13:50	9°♊14'05		direct	235 Dec 01 j 19:53	20°♍46'48	
direct	234 Dec 18 j 05:31	6°♊44'14		morning max el	235 Dec 12 j 00:27	26°♍50'09	23°10'40
morning max el	234 Dec 29 j 15:11	13°♊32'01	24°38'26		235 Dec 14 j 22:48	0°♊	
desc. node	235 Jan 08 j 04:33	24°♊49'59		desc. node	235 Dec 26 j 01:34	14°♊23'41	
	235 Jan 12 j 00:03	0°♊			236 Jan 05 j 15:15	0°♊	
	235 Jan 31 j 08:58	0°♊		morning set	236 Jan 15 j 19:14	16°♊18'33	
morning set	235 Feb 03 j 16:35	5°♊44'43		max. Earth dist.	236 Jan 20 j 03:51	23°♊43'32	1.39542 AU
max. Earth dist.	235 Feb 07 j 08:31	12°♊19'00	1.37433 AU		236 Jan 23 j 17:24	0°♊	
superior conj	235 Feb 14 j 01:08	24°♋56'03	-1°39'32	superior conj	236 Jan 27 j 19:30	7°♋25'45	-1°55'57
minimum elong	235 Feb 14 j 05:03	25°♋15'03	1°39'06	minimum elong	236 Jan 27 j 22:26	7°♋39'21	1°55'47
	235 Feb 16 j 15:11	0°♋		evening rise	236 Feb 06 j 06:59	25°♋25'36	
evening rise	235 Feb 22 j 14:11	11°♋52'32			236 Feb 08 j 16:24	0°♋	
asc. node	235 Feb 25 j 16:11	17°♋56'29		asc. node	236 Feb 12 j 13:12	7°♋09'32	
	235 Mar 04 j 09:40	0°♋		evening max el	236 Feb 22 j 13:21	21°♋35'16	18°33'44
evening max el	235 Mar 11 j 11:11	9°♋10'08	19°16'00	retrograde	236 Mar 01 j 06:12	25°♋21'25	
retrograde	235 Mar 20 j 10:59	13°♋29'49		evening set	236 Mar 03 j 15:47	25°♋00'42	
evening set	235 Mar 22 j 15:31	13°♋15'33		inferior conj	236 Mar 11 j 04:22	20°♋32'20	2°56'21
inferior conj	235 Mar 30 j 22:59	9°♋06'04	1°41'45	minimum elong	236 Mar 11 j 08:26	20°♋24'22	2°55'26
minimum elong	235 Mar 31 j 02:43	8°♋59'49	1°40'35	min. Earth dist.	236 Mar 14 j 14:09	17°♋53'47	0.58207 AU
min. Earth dist.	235 Apr 02 j 20:13	7°♋11'04	0.56416 AU	morning rise	236 Mar 18 j 22:19	15°♋10'02	
desc. node	235 Apr 06 j 03:42	5°♋15'08		desc. node	236 Mar 23 j 00:44	13°♋50'18	
morning rise	235 Apr 08 j 11:05	4°♋14'39		direct	236 Mar 24 j 19:35	13°♋42'09	
direct	235 Apr 13 j 06:39	3°♋21'17		morning max el	236 Apr 08 j 04:13	21°♋18'43	26°36'42
morning max el	235 Apr 27 j 11:03	10°♋35'46	25°13'41		236 Apr 15 j 17:45	0°♋	
	235 May 12 j 04:05	0°♋			236 May 03 j 20:41	0°♋	
morning set	235 May 24 j 02:03	22°♋35'53		morning set	236 May 07 j 12:44	7°♋29'42	
asc. node	235 May 24 j 15:29	23°♋46'52		asc. node	236 May 10 j 12:31	13°♋52'24	
	235 May 27 j 12:55	0°♋		superior conj	236 May 14 j 13:25	22°♋42'02	0°41'35
superior conj	235 May 31 j 01:49	7°♋43'10	1°03'17	minimum elong	236 May 14 j 11:42	22°♋32'35	0°41'15
minimum elong	235 May 30 j 23:30	7°♋30'32	1°02'53	max. Earth dist.	236 May 14 j 17:23	23°♋03'50	1.32372 AU
max. Earth dist.	235 Jun 01 j 05:26	10°♋13'35	1.32774 AU		236 May 17 j 21:29	0°♋	
evening rise	235 Jun 07 j 05:21	22°♋57'37		evening rise	236 May 21 j 12:06	7°♋42'29	
	235 Jun 10 j 17:34	0°♋			236 Jun 02 j 05:04	0°♋	
	235 Jun 28 j 17:38	0°♋		desc. node	236 Jun 19 j 00:03	23°♋07'01	
desc. node	235 Jul 03 j 03:03	5°♋41'45		evening max el	236 Jun 20 j 12:17	24°♋36'39	26°42'27
evening max el	235 Jul 09 j 09:20	12°♋30'51	27°19'23		236 Jun 27 j 16:35	0°♋	
retrograde	235 Jul 23 j 04:44	19°♋48'07		retrograde	236 Jul 04 j 11:41	1°♋51'49	
evening set	235 Jul 30 j 09:04	17°♋21'13		evening set	236 Jul 11 j 06:05	29°♋53'46	
min. Earth dist.	235 Aug 02 j 23:03	14°♋29'13	0.62313 AU		236 Jul 11 j 01:39	30°♋	
inferior conj	235 Aug 05 j 22:12	11°♋42'52	-4°05'18	min. Earth dist.	236 Jul 15 j 01:46	27°♋15'54	0.60305 AU
minimum elong	235 Aug 06 j 02:54	11°♋31'50	4°04'18	inferior conj	236 Jul 18 j 09:07	24°♋33'35	-4°37'30
morning rise	235 Aug 12 j 22:04	6°♋39'19		minimum elong	236 Jul 18 j 12:08	24°♋27'23	4°37'11
direct	235 Aug 15 j 09:50	6°♋11'46		morning rise	236 Jul 25 j 20:07	19°♋52'09	
asc. node	235 Aug 20 j 14:39	8°♋14'47		direct	236 Jul 28 j 07:26	19°♋29'05	
morning max el	235 Aug 22 j 04:31	9°♋38'06	17°53'59	morning max el	236 Aug 04 j 16:25	23°♋04'55	18°10'18
	235 Sep 04 j 14:32	0°♋		asc. node	236 Aug 06 j 11:42	25°♋00'16	
morning set	235 Sep 07 j 07:08	4°♋49'47			236 Aug 10 j 04:40	0°♋	
				morning set	236 Aug 20 j 14:19	18°♋18'37	
superior conj	235 Sep 18 j 07:51	24°♋15'45	1°07'57		236 Aug 26 j 20:22	0°♋	
minimum elong	235 Sep 18 j 12:48	24°♋36'51	1°07'22	superior conj	236 Aug 30 j 05:23	6°♋09'10	1°32'02
	235 Sep 21 j 17:25	0°♋		minimum elong	236 Aug 30 j 09:06	6°♋25'56	1°31'44
max. Earth dist.	235 Sep 25 j 11:46	6°♋12'37	1.43042 AU	max. Earth dist.	236 Sep 06 j 20:23	19°♋27'30	1.41271 AU
desc. node	235 Sep 29 j 02:22	12°♋01'44		evening rise	236 Sep 12 j 00:09	27°♋59'35	
evening rise	235 Oct 03 j 00:25	18°♋12'53			236 Sep 13 j 06:00	0°♋	
	235 Oct 10 j 16:55	0°♋		desc. node	236 Sep 14 j 23:24	2°♋45'10	
	235 Nov 01 j 11:43	0°♋			236 Oct 03 j 08:41	0°♋	
evening max el	235 Nov 03 j 02:53	1°♋44'38	21°35'00	evening max el	236 Oct 15 j 19:07	15°♋15'03	22°53'06
retrograde	235 Nov 12 j 01:11	7°♋03'15		retrograde	236 Oct 25 j 19:55	21°♋12'34	
evening set	235 Nov 16 j 06:49	5°♋23'53		evening set	236 Oct 30 j 14:06	19°♋15'40	
asc. node	235 Nov 16 j 13:52	5°♋09'29		asc. node	236 Nov 02 j 10:54	16°♋13'57	
	235 Nov 21 j 00:18	30°♋					

inferior conj	236 Nov 04 j 22:32	12°♍54'38	0°50'54	min. Earth dist.	237 Oct 19 j 13:03	27°♊37'40	0.67504 AU
minimum elong	236 Nov 04 j 21:22	12°♍58'39	0°50'24	inferior conj	237 Oct 20 j 05:02	26°♊43'47	-0°02'31
min. Earth dist.	236 Nov 04 j 16:53	13°♍14'07	0.67693 AU	minimum elong	237 Oct 20 j 05:05	26°♊43'35	0°02'30
morning rise	236 Nov 10 j 04:32	6°♍44'17		transit middle	237 Oct 20 j 05:05	26°♊43'35	0°02'30
direct	236 Nov 14 j 14:09	4°♍58'22		transit begin	237 Oct 20 j 02:23	26°♊52'41	
morning max el	236 Nov 23 j 13:55	10°♍15'37	21°45'09	transit end	237 Oct 20 j 07:47	26°♊34'29	
	236 Dec 08 j 22:15	0°♊		asc. node	237 Oct 20 j 07:57	26°♊33'57	
desc. node	236 Dec 11 j 22:37	4°♊23'38		morning rise	237 Oct 25 j 14:52	20°♊38'24	
morning set	236 Dec 25 j 16:45	25°♊29'01		direct	237 Oct 29 j 11:12	19°♊13'55	
	236 Dec 28 j 12:10	0°♊		morning max el	237 Nov 06 j 10:15	23°♊50'13	20°28'43
max. Earth dist.	237 Jan 01 j 03:01	5°♊56'16	1.41612 AU		237 Nov 11 j 16:56	0°♍	
				desc. node	237 Nov 28 j 19:40	24°♍41'58	
superior conj	237 Jan 08 j 18:02	18°♊56'13	-2°02'21		237 Dec 02 j 06:50	0°♊	
minimum elong	237 Jan 08 j 17:56	18°♊55'47	2°02'21	morning set	237 Dec 04 j 16:13	3°♊41'39	
	237 Jan 14 j 22:41	0°♍		max. Earth dist.	237 Dec 14 j 09:37	19°♊02'59	1.43356 AU
evening rise	237 Jan 19 j 11:54	8°♍20'34					
asc. node	237 Jan 29 j 10:13	25°♍53'04		superior conj	237 Dec 20 j 15:36	29°♊16'08	-1°54'05
	237 Feb 01 j 04:24	0°♋		minimum elong	237 Dec 20 j 10:39	28°♊55'34	1°53'49
evening max el	237 Feb 04 j 21:57	4°♋26'59	18°11'32		237 Dec 21 j 02:09	0°♊	
retrograde	237 Feb 11 j 19:17	7°♋55'26		evening rise	238 Jan 02 j 00:49	20°♊28'56	
evening set	237 Feb 14 j 09:51	7°♋26'18			238 Jan 07 j 11:27	0°♍	
inferior conj	237 Feb 21 j 06:17	2°♋37'07	3°36'42	asc. node	238 Jan 16 j 07:14	13°♍57'59	
minimum elong	237 Feb 21 j 08:30	2°♋32'03	3°36'27	evening max el	238 Jan 19 j 09:55	17°♍37'01	18°08'53
	237 Feb 24 j 03:37	30°♋		retrograde	238 Jan 25 j 22:20	21°♍02'08	
min. Earth dist.	237 Feb 24 j 13:49	29°♋37'49	0.60294 AU	evening set	238 Jan 28 j 17:32	20°♍23'21	
morning rise	237 Feb 28 j 05:10	26°♋53'15		inferior conj	238 Feb 04 j 01:25	15°♍13'32	3°49'28
direct	237 Mar 06 j 20:52	24°♋47'37		minimum elong	238 Feb 04 j 01:26	15°♍13'28	3°49'28
desc. node	237 Mar 09 j 21:46	25°♋12'24		min. Earth dist.	238 Feb 06 j 21:32	12°♍18'13	0.62354 AU
	237 Mar 18 j 06:46	0°♋		morning rise	238 Feb 10 j 08:13	9°♍16'40	
morning max el	237 Mar 21 j 03:14	2°♋36'09	27°30'18	direct	238 Feb 17 j 07:50	6°♍41'34	
	237 Apr 10 j 02:54	0°♌		desc. node	238 Feb 24 j 18:49	9°♍11'29	
morning set	237 Apr 21 j 20:25	22°♌12'50		morning max el	238 Mar 03 j 08:00	14°♍34'18	27°47'41
	237 Apr 25 j 12:46	0°♌			238 Mar 15 j 20:27	0°♋	
asc. node	237 Apr 27 j 09:32	4°♌02'41			238 Apr 02 j 14:48	0°♌	
max. Earth dist.	237 Apr 28 j 05:48	5°♌53'20	1.32337 AU	morning set	238 Apr 05 j 23:05	6°♌38'09	
				max. Earth dist.	238 Apr 11 j 14:55	18°♌29'13	1.32685 AU
superior conj	237 Apr 29 j 00:55	7°♌38'02	0°17'18				
minimum elong	237 Apr 29 j 00:08	7°♌33'46	0°17'09	superior conj	238 Apr 13 j 10:38	22°♌25'19	-0°08'47
evening rise	237 May 05 j 22:20	22°♌35'32		minimum elong	238 Apr 13 j 11:03	22°♌27'34	0°08'42
	237 May 09 j 12:34	0°♍		behind sun begin	238 Apr 13 j 06:42	22°♌03'59	
	237 May 27 j 22:04	0°♌		behind sun end	238 Apr 13 j 15:24	22°♌51'11	
evening max el	237 Jun 02 j 08:20	5°♌56'58	25°35'02	asc. node	238 Apr 14 j 06:35	24°♌13'34	
desc. node	237 Jun 05 j 21:03	8°♌58'29			238 Apr 16 j 22:17	0°♋	
retrograde	237 Jun 16 j 09:30	13°♌07'54		evening rise	238 Apr 20 j 10:05	7°♋30'02	
evening set	237 Jun 22 j 04:43	11°♌48'21			238 May 02 j 05:54	0°♍	
min. Earth dist.	237 Jun 26 j 20:32	9°♌06'21	0.58255 AU	evening max el	238 May 14 j 23:30	16°♌42'25	24°06'27
inferior conj	237 Jun 30 j 02:06	6°♌48'39	-4°46'12	desc. node	238 May 23 j 18:03	22°♌41'28	
minimum elong	237 Jun 30 j 01:16	6°♌50'09	4°46'10	retrograde	238 May 28 j 19:32	23°♌39'47	
morning rise	237 Jul 08 j 00:23	2°♌29'32		evening set	238 Jun 02 j 05:13	22°♌56'46	
direct	237 Jul 10 j 13:02	2°♌09'29		min. Earth dist.	238 Jun 08 j 10:40	19°♌55'02	0.56475 AU
morning max el	237 Jul 18 j 21:51	6°♌06'24	18°46'51	inferior conj	238 Jun 10 j 23:03	18°♌21'15	-4°18'28
asc. node	237 Jul 24 j 08:46	12°♌44'48		minimum elong	238 Jun 10 j 17:29	18°♌29'58	4°17'33
	237 Aug 03 j 03:50	0°♎		morning rise	238 Jun 19 j 08:32	14°♌20'17	
morning set	237 Aug 04 j 08:40	2°♎20'16		direct	238 Jun 21 j 23:53	14°♌01'57	
				morning max el	238 Jul 01 j 18:00	18°♌33'21	19°44'25
superior conj	237 Aug 12 j 23:35	19°♎04'03	1°44'18		238 Jul 10 j 11:52	0°♌	
minimum elong	237 Aug 13 j 01:11	19°♎11'41	1°44'14	asc. node	238 Jul 11 j 05:50	1°♌15'13	
	237 Aug 18 j 21:47	0°♏		morning set	238 Jul 19 j 10:49	16°♌46'18	
max. Earth dist.	237 Aug 20 j 00:01	1°♏56'59	1.39270 AU		238 Jul 25 j 23:50	0°♎	
evening rise	237 Aug 23 j 23:55	8°♏53'47					
desc. node	237 Sep 01 j 20:26	23°♏21'02		superior conj	238 Jul 27 j 09:00	2°♎45'20	1°46'48
	237 Sep 06 j 04:32	0°♏		minimum elong	238 Jul 27 j 08:42	2°♎43'49	1°46'48
evening max el	237 Sep 28 j 07:54	28°♏48'31	24°13'12	max. Earth dist.	238 Aug 02 j 03:45	13°♎55'18	1.37298 AU
	237 Sep 29 j 13:38	0°♍		evening rise	238 Aug 05 j 23:35	20°♎56'36	
retrograde	237 Oct 09 j 11:07	5°♍20'32			238 Aug 11 j 04:23	0°♏	
evening set	237 Oct 14 j 19:18	3°♍06'06		desc. node	238 Aug 19 j 17:26	13°♏44'41	
	237 Oct 17 j 17:21	30°♋			238 Aug 31 j 03:22	0°♏	

evening max el	238 Sep 10 j 19:38	12° Ω 25'48	25°28'05	desc. node	239 Aug 06 j 14:27	3° Π 50'05	
retrograde	238 Sep 22 j 21:52	19° Ω 23'05		evening max el	239 Aug 24 j 07:31	26° Π 02'22	26°30'01
evening set	238 Sep 28 j 20:41	16° Ω 52'47			239 Aug 28 j 23:14	0° Ω	
min. Earth dist.	238 Oct 03 j 06:21	11° Ω 59'41	0.66995 AU	retrograde	239 Sep 06 j 03:32	3° Ω 14'51	
inferior conj	238 Oct 04 j 09:06	10° Ω 33'21	-0°58'18	evening set	239 Sep 12 j 16:14	0° Ω 33'00	
minimum elong	238 Oct 04 j 10:34	10° Ω 28'35	0°57'40		239 Sep 13 j 07:20	30° \mathbb{R} Π	
asc. node	238 Oct 07 j 05:01	7° Ω 06'05		min. Earth dist.	239 Sep 16 j 18:19	26° Π 16'59	0.66143 AU
morning rise	238 Oct 10 j 00:38	4° Ω 35'52		inferior conj	239 Sep 18 j 08:51	24° Π 20'26	-1°54'45
direct	238 Oct 13 j 09:38	3° Ω 29'58		minimum elong	239 Sep 18 j 11:47	24° Π 11'33	1°53'35
morning max el	238 Oct 20 j 14:15	7° Ω 34'30	19°25'34	morning rise	239 Sep 24 j 07:44	18° Π 34'01	
	238 Nov 05 j 20:29	0° \mathbb{L}		asc. node	239 Sep 24 j 02:06	18° Π 42'11	
morning set	238 Nov 13 j 16:04	12° \mathbb{L} 04'11		direct	239 Sep 27 j 07:39	17° Π 43'17	
desc. node	238 Nov 15 j 16:43	15° \mathbb{L} 13'13		morning max el	239 Oct 04 j 00:43	21° Π 25'53	18°37'56
	238 Nov 25 j 03:26	0° \mathbb{X}			239 Oct 10 j 18:28	0° Ω	
max. Earth dist.	238 Nov 26 j 23:34	2° \mathbb{X} 54'14	1.44547 AU	morning set	239 Oct 24 j 14:09	21° Ω 37'26	
					239 Oct 29 j 20:27	0° \mathbb{L}	
superior conj	238 Nov 30 j 10:43	8° \mathbb{X} 24'34	-1°27'35	desc. node	239 Nov 02 j 13:46	5° \mathbb{L} 53'20	
minimum elong	238 Nov 30 j 02:23	7° \mathbb{X} 51'18	1°26'46				
	238 Dec 13 j 16:40	0° \mathbb{Z}		superior conj	239 Nov 09 j 12:37	16° \mathbb{L} 50'09	-0°44'41
evening rise	238 Dec 14 j 17:23	1° \mathbb{Z} 42'54		minimum elong	239 Nov 09 j 06:52	16° \mathbb{L} 27'33	0°43'57
	239 Jan 02 j 00:45	0° \approx		max. Earth dist.	239 Nov 09 j 17:52	17° \mathbb{L} 10'48	1.45041 AU
evening max el	239 Jan 02 j 22:23	0° \approx 57'44	18°25'01		239 Nov 17 j 21:18	0° \mathbb{X}	
asc. node	239 Jan 03 j 04:17	1° \approx 12'31		evening rise	239 Nov 25 j 10:31	11° \mathbb{X} 58'41	
retrograde	239 Jan 09 j 11:03	4° \approx 31'55		greatest brilliancy	239 Dec 03 j 14:58	25° \mathbb{X} 00'47	-0.8m
evening set	239 Jan 12 j 11:10	3° \approx 42'31			239 Dec 06 j 19:21	0° \mathbb{Z}	
	239 Jan 16 j 19:52	30° \mathbb{R} \mathbb{Z}		evening max el	239 Dec 17 j 08:50	14° \mathbb{Z} 23'53	18°58'57
inferior conj	239 Jan 18 j 09:45	28° \mathbb{Z} 13'24	3°42'03	asc. node	239 Dec 21 j 01:21	17° \mathbb{Z} 22'58	
minimum elong	239 Jan 18 j 08:08	28° \mathbb{Z} 18'05	3°41'53	retrograde	239 Dec 24 j 05:38	18° \mathbb{Z} 17'47	
min. Earth dist.	239 Jan 20 j 14:43	25° \mathbb{Z} 41'20	0.64163 AU	evening set	239 Dec 27 j 11:40	17° \mathbb{Z} 16'39	
morning rise	239 Jan 24 j 04:33	22° \mathbb{Z} 08'34		inferior conj	240 Jan 02 j 03:42	11° \mathbb{Z} 30'31	3°20'07
direct	239 Jan 31 j 02:20	19° \mathbb{Z} 18'24		minimum elong	240 Jan 02 j 01:10	11° \mathbb{Z} 38'26	3°19'36
desc. node	239 Feb 11 j 15:53	25° \mathbb{Z} 12'03		min. Earth dist.	240 Jan 03 j 17:23	9° \mathbb{Z} 32'48	0.65605 AU
morning max el	239 Feb 13 j 16:33	27° \mathbb{Z} 07'49	27°28'50	morning rise	240 Jan 07 j 14:24	5° \mathbb{Z} 20'37	
	239 Feb 16 j 09:45	0° \approx		direct	240 Jan 14 j 03:20	2° \mathbb{Z} 29'55	
	239 Mar 09 j 11:49	0° \mathbb{X}		morning max el	240 Jan 27 j 02:22	10° \mathbb{Z} 06'13	26°38'57
morning set	239 Mar 20 j 18:01	20° \mathbb{X} 36'01		desc. node	240 Jan 29 j 12:56	12° \mathbb{Z} 40'38	
	239 Mar 25 j 09:27	0° \mathbb{Y}			240 Feb 11 j 20:26	0° \approx	
max. Earth dist.	239 Mar 25 j 16:46	0° \mathbb{Y} 37'59	1.33450 AU		240 Feb 29 j 23:22	0° \mathbb{X}	
				morning set	240 Mar 03 j 01:48	3° \mathbb{X} 56'17	
superior conj	239 Mar 28 j 16:40	6° \mathbb{Y} 56'34	-0°35'45	max. Earth dist.	240 Mar 07 j 08:04	12° \mathbb{X} 13'17	1.34662 AU
minimum elong	239 Mar 28 j 18:24	7° \mathbb{Y} 05'47	0°35'25				
asc. node	239 Apr 01 j 03:37	14° \mathbb{Y} 20'11		superior conj	240 Mar 11 j 16:52	21° \mathbb{X} 05'21	-1°02'26
evening rise	239 Apr 04 j 21:29	22° \mathbb{Y} 18'25		minimum elong	240 Mar 11 j 19:50	21° \mathbb{X} 20'44	1°01'54
	239 Apr 08 j 15:31	0° \mathbb{X}			240 Mar 15 j 23:18	0° \mathbb{Y}	
evening max el	239 Apr 26 j 15:17	27° \mathbb{X} 16'27	22°30'56	asc. node	240 Mar 18 j 00:40	4° \mathbb{Y} 18'29	
	239 Apr 29 j 19:39	0° \mathbb{I}		evening rise	240 Mar 19 j 06:42	6° \mathbb{Y} 54'41	
retrograde	239 May 09 j 16:41	3° \mathbb{I} 43'16			240 Mar 31 j 22:20	0° \mathbb{X}	
desc. node	239 May 10 j 15:06	3° \mathbb{I} 41'18		evening max el	240 Apr 07 j 14:29	8° \mathbb{X} 08'34	21°02'17
evening set	239 May 12 j 17:46	3° \mathbb{I} 22'53		retrograde	240 Apr 19 j 06:12	13° \mathbb{X} 47'46	
	239 May 20 j 15:32	30° \mathbb{R} \mathbb{X}		evening set	240 Apr 21 j 12:12	13° \mathbb{X} 35'53	
min. Earth dist.	239 May 20 j 23:02	29° \mathbb{X} 49'28	0.55300 AU	desc. node	240 Apr 26 j 12:07	11° \mathbb{X} 55'36	
inferior conj	239 May 22 j 01:52	29° \mathbb{X} 11'22	-3°05'02	inferior conj	240 Apr 30 j 20:00	9° \mathbb{X} 37'17	-1°14'24
minimum elong	239 May 21 j 18:37	29° \mathbb{X} 21'40	3°02'58	minimum elong	240 Apr 30 j 16:29	9° \mathbb{X} 42'16	1°13'09
morning rise	239 May 30 j 21:30	25° \mathbb{X} 17'59		min. Earth dist.	240 May 01 j 11:47	9° \mathbb{X} 14'57	0.54996 AU
direct	239 Jun 02 j 17:39	24° \mathbb{X} 59'29		morning rise	240 May 09 j 20:40	5° \mathbb{X} 33'09	
	239 Jun 13 j 19:17	0° \mathbb{I}		direct	240 May 13 j 03:37	5° \mathbb{X} 09'47	
morning max el	239 Jun 14 j 02:59	0° \mathbb{I} 17'36	21°02'24	morning max el	240 May 26 j 01:34	11° \mathbb{X} 20'22	22°36'39
asc. node	239 Jun 28 j 02:55	20° \mathbb{I} 19'50			240 Jun 08 j 18:42	0° \mathbb{I}	
	239 Jul 03 j 00:49	0° \mathbb{O}		asc. node	240 Jun 13 j 23:57	9° \mathbb{I} 49'50	
morning set	239 Jul 03 j 18:11	1° \mathbb{O} 29'08		morning set	240 Jun 17 j 04:41	16° \mathbb{I} 22'29	
					240 Jun 23 j 14:30	0° \mathbb{O}	
superior conj	239 Jul 11 j 05:12	16° \mathbb{O} 59'43	1°41'37				
minimum elong	239 Jul 11 j 03:34	16° \mathbb{O} 51'16	1°41'31	superior conj	240 Jun 24 j 08:45	1° \mathbb{O} 36'53	1°30'22
max. Earth dist.	239 Jul 15 j 13:20	25° \mathbb{O} 46'18	1.35555 AU	minimum elong	240 Jun 24 j 06:24	1° \mathbb{O} 24'29	1°30'07
	239 Jul 17 j 17:12	0° \mathbb{Q}		max. Earth dist.	240 Jun 27 j 07:53	7° \mathbb{O} 50'19	1.34163 AU
evening rise	239 Jul 19 j 18:47	3° \mathbb{Q} 56'30		evening rise	240 Jul 02 j 04:40	17° \mathbb{O} 40'18	
	239 Aug 04 j 01:23	0° \mathbb{P}			240 Jul 08 j 18:26	0° \mathbb{Q}	

































































































































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	240 Jul 28 j 08:30	0°♌		evening rise	241 Jun 16 j 01:10	1°♋56'22	
evening max el	240 Aug 05 j 19:18	9°♌28'59	27°11'23		241 Jul 01 j 15:31	0°♌	
retrograde	240 Aug 19 j 03:50	16°♌48'04		desc. node	241 Jul 10 j 08:29	12°♌29'57	
evening set	240 Aug 26 j 03:26	14°♌02'29		evening max el	241 Jul 19 j 05:38	22°♌34'37	27°25'33
min. Earth dist.	240 Aug 29 j 22:39	10°♌23'20	0.64931 AU	retrograde	241 Aug 01 j 22:18	29°♌54'08	
inferior conj	240 Sep 01 j 02:01	8°♌00'28	-2°49'45	evening set	241 Aug 09 j 03:09	27°♌16'27	
minimum elong	240 Sep 01 j 06:13	7°♌48'46	2°48'19	min. Earth dist.	241 Aug 12 j 17:39	24°♌09'44	0.63357 AU
morning rise	240 Sep 07 j 09:46	2°♌28'16		inferior conj	241 Aug 15 j 10:02	21°♌28'20	-3°40'10
asc. node	240 Sep 09 j 23:11	1°♌49'16		minimum elong	241 Aug 15 j 14:53	21°♌16'08	3°38'53
direct	240 Sep 10 j 02:55	1°♌49'08		morning rise	241 Aug 22 j 03:47	16°♌13'27	
morning max el	240 Sep 16 j 15:17	5°♌19'02	18°06'53	direct	241 Aug 24 j 16:41	15°♌42'36	
	240 Oct 03 j 03:46	0°♍		asc. node	241 Aug 27 j 20:12	16°♌30'52	
morning set	240 Oct 04 j 16:56	2°♍35'00		morning max el	241 Aug 31 j 07:09	19°♌08'07	17°53'23
					241 Sep 08 j 06:19	0°♎	
superior conj	240 Oct 18 j 18:07	25°♍31'59	0°04'37	morning set	241 Sep 16 j 20:50	14°♎45'16	
minimum elong	240 Oct 18 j 18:41	25°♍34'15	0°04'32		241 Sep 25 j 17:00	0°♏	
behind sun begin	240 Oct 18 j 08:18	24°♍52'45					
behind sun end	240 Oct 19 j 05:05	26°♍15'40		superior conj	241 Sep 28 j 21:46	5°♏21'23	0°48'09
desc. node	240 Oct 19 j 10:47	26°♍38'24		minimum elong	241 Sep 29 j 02:16	5°♏40'02	0°47'34
	240 Oct 21 j 13:35	0°♐		max. Earth dist.	241 Oct 05 j 04:52	15°♏37'45	1.43854 AU
max. Earth dist.	240 Oct 22 j 12:39	1°♐31'12	1.44794 AU	desc. node	241 Oct 06 j 07:49	17°♏25'37	
evening rise	240 Nov 04 j 05:32	21°♐21'14			241 Oct 14 j 08:03	0°♑	
	240 Nov 09 j 19:56	0°♑		evening rise	241 Oct 14 j 12:52	0°♑18'36	
greatest brilliancy	240 Nov 17 j 10:54	11°♑35'48	-0.7m		241 Nov 03 j 13:15	0°♒	
evening max el	240 Nov 29 j 15:06	27°♑51'26	19°49'11	evening max el	241 Nov 12 j 15:58	11°♒19'51	20°53'16
	240 Dec 01 j 22:54	0°♓		retrograde	241 Nov 21 j 00:32	16°♒16'55	
asc. node	240 Dec 06 j 22:25	2°♓13'34		asc. node	241 Nov 23 j 19:27	15°♒32'57	
retrograde	240 Dec 07 j 02:55	2°♓13'46		evening set	241 Nov 24 j 23:39	14°♒47'21	
evening set	240 Dec 10 j 16:30	0°♓59'20		inferior conj	241 Nov 30 j 08:53	8°♒36'24	2°06'49
	240 Dec 11 j 21:54	30°♒♑		minimum elong	241 Nov 30 j 06:24	8°♒44'52	2°05'57
inferior conj	240 Dec 16 j 04:13	24°♒59'10	2°47'29	min. Earth dist.	241 Nov 30 j 20:26	7°♒56'49	0.67331 AU
minimum elong	240 Dec 16 j 01:26	25°♒08'21	2°46'42	morning rise	241 Dec 05 j 12:58	2°♒22'50	
min. Earth dist.	240 Dec 17 j 04:02	23°♒40'16	0.66654 AU	direct	241 Dec 10 j 22:09	0°♒01'29	
morning rise	240 Dec 21 j 10:10	18°♒46'23		morning max el	241 Dec 21 j 19:48	6°♒31'49	24°01'15
direct	240 Dec 27 j 10:08	16°♒06'35		desc. node	242 Jan 02 j 07:01	20°♒25'24	
morning max el	241 Jan 08 j 11:26	23°♒16'41	25°26'26		242 Jan 09 j 01:28	0°♓	
	241 Jan 14 j 11:00	0°♓		morning set	242 Jan 26 j 11:49	27°♓45'13	
desc. node	241 Jan 15 j 09:58	1°♓11'00			242 Jan 27 j 18:56	0°♔	
	241 Feb 04 j 04:58	0°♔		max. Earth dist.	242 Jan 30 j 07:02	4°♔24'58	1.38310 AU
morning set	241 Feb 13 j 17:45	16°♔24'55					
max. Earth dist.	241 Feb 17 j 11:34	23°♔20'07	1.36310 AU	superior conj	242 Feb 06 j 11:50	17°♔41'34	-1°47'29
	241 Feb 20 j 22:55	0°♕		minimum elong	242 Feb 06 j 15:33	17°♔59'15	1°47'08
					242 Feb 12 j 20:01	0°♕	
superior conj	241 Feb 23 j 08:26	4°♕43'32	-1°27'08	evening rise	242 Feb 15 j 09:37	5°♕02'59	
minimum elong	241 Feb 23 j 12:15	5°♕02'32	1°26'36	asc. node	242 Feb 19 j 18:44	13°♕30'20	
evening rise	241 Mar 03 j 11:34	21°♕11'53			242 Mar 02 j 06:39	0°♖	
asc. node	241 Mar 04 j 21:42	24°♕03'44		evening max el	242 Mar 03 j 22:10	1°♖43'55	18°55'39
	241 Mar 07 j 22:23	0°♖		retrograde	242 Mar 12 j 07:28	5°♖47'05	
evening max el	241 Mar 21 j 00:56	19°♖37'10	19°49'22	evening set	242 Mar 14 j 14:00	5°♖30'27	
retrograde	241 Mar 30 j 23:29	24°♖23'34		inferior conj	242 Mar 22 j 13:19	1°♖13'54	2°17'48
evening set	241 Apr 02 j 01:47	24°♖11'47		minimum elong	242 Mar 22 j 17:35	1°♖06'15	2°16'35
inferior conj	241 Apr 10 j 20:02	20°♖10'16	0°43'18		242 Mar 24 j 06:35	30°♒♕	
minimum elong	241 Apr 10 j 21:54	20°♖07'23	0°42'39	min. Earth dist.	242 Mar 25 j 18:13	28°♕57'45	0.57115 AU
min. Earth dist.	241 Apr 13 j 02:01	18°♖47'03	0.55647 AU	morning rise	242 Mar 30 j 18:08	26°♕08'22	
desc. node	241 Apr 13 j 09:08	18°♖36'21		desc. node	242 Mar 31 j 06:10	25°♕56'26	
morning rise	241 Apr 19 j 15:39	15°♖37'43		direct	242 Apr 05 j 01:18	25°♕01'04	
direct	241 Apr 23 j 19:42	14°♖59'10			242 Apr 16 j 14:28	0°♗	
morning max el	241 May 07 j 17:32	21°♖55'36	24°17'48	morning max el	242 Apr 19 j 08:30	2°♖27'12	25°51'48
	241 May 14 j 18:54	0°♘			242 May 08 j 21:33	0°♘	
asc. node	241 May 31 j 20:59	29°♘38'24		morning set	242 May 17 j 04:07	16°♘17'56	
	241 Jun 01 j 01:07	0°♙		asc. node	242 May 18 j 18:00	19°♘39'07	
morning set	241 Jun 01 j 16:33	1°♙20'56			242 May 23 j 12:09	0°♚	
superior conj	241 Jun 08 j 17:03	16°♙28'34	1°14'20	superior conj	242 May 24 j 03:58	1°♙26'41	0°54'28
minimum elong	241 Jun 08 j 14:35	16°♙15'13	1°13'58	minimum elong	242 May 24 j 01:51	1°♙15'07	0°54'04
max. Earth dist.	241 Jun 10 j 11:20	20°♙16'33	1.33164 AU	max. Earth dist.	242 May 24 j 21:08	3°♙00'37	1.32556 AU

evening rise	242 May 31 j 04:56	16° Π 33'26		max. Earth dist.	243 May 08 j 09:51	15° \mathcal{B} 52'42	1.32317 AU
	242 Jun 07 j 00:36	0° \mathcal{E}			243 May 14 j 21:45	0° Π	
	242 Jun 26 j 16:53	0° \mathcal{Q}		evening rise	243 May 15 j 13:28	1° Π 23'00	
desc. node	242 Jun 27 j 05:29	0° \mathcal{Q} 36'25			243 May 31 j 03:20	0° \mathcal{E}	
evening max el	242 Jul 01 j 12:09	5° \mathcal{Q} 05'48	27°07'46	evening max el	243 Jun 13 j 12:28	16° \mathcal{E} 52'51	26°17'07
retrograde	242 Jul 15 j 09:50	12° \mathcal{Q} 22'23		desc. node	243 Jun 14 j 02:29	17° \mathcal{E} 25'41	
evening set	242 Jul 22 j 11:12	10° \mathcal{Q} 06'27		retrograde	243 Jun 27 j 12:50	24° \mathcal{E} 05'43	
min. Earth dist.	242 Jul 26 j 02:23	7° \mathcal{Q} 22'09	0.61478 AU	evening set	243 Jul 03 j 23:02	22° \mathcal{E} 23'40	
inferior conj	242 Jul 29 j 05:41	4° \mathcal{Q} 35'18	-4°21'08	min. Earth dist.	243 Jul 08 j 01:24	19° \mathcal{E} 46'11	0.59431 AU
minimum elong	242 Jul 29 j 09:55	4° \mathcal{Q} 25'51	4°20'26	inferior conj	243 Jul 11 j 09:25	17° \mathcal{E} 12'04	-4°44'48
	242 Aug 04 j 14:18	30° \mathcal{R} \mathcal{E}		minimum elong	243 Jul 11 j 11:02	17° \mathcal{E} 08'55	4°44'43
morning rise	242 Aug 05 j 10:14	29° \mathcal{E} 40'40		morning rise	243 Jul 19 j 01:09	12° \mathcal{E} 39'55	
direct	242 Aug 07 j 21:26	29° \mathcal{E} 15'20		direct	243 Jul 21 j 12:59	12° \mathcal{E} 18'08	
	242 Aug 11 j 02:26	0° \mathcal{Q}		morning max el	243 Jul 29 j 06:43	16° \mathcal{E} 01'22	18°23'13
asc. node	242 Aug 14 j 17:14	2° \mathcal{Q} 35'04		asc. node	243 Aug 01 j 14:16	19° \mathcal{E} 47'01	
morning max el	242 Aug 14 j 21:17	2° \mathcal{Q} 44'52	17°58'27		243 Aug 08 j 02:55	0° \mathcal{Q}	
morning set	242 Aug 30 j 19:39	27° \mathcal{Q} 49'43		morning set	243 Aug 14 j 08:03	11° \mathcal{Q} 33'42	
	242 Sep 01 j 00:05	0° \mathcal{R}					
superior conj	242 Sep 10 j 04:46	16° \mathcal{R} 31'16	1°19'43	superior conj	243 Aug 23 j 11:45	28° \mathcal{Q} 52'15	1°38'35
minimum elong	242 Sep 10 j 09:25	16° \mathcal{R} 51'33	1°19'14	minimum elong	243 Aug 23 j 14:36	29° \mathcal{Q} 05'23	1°38'23
max. Earth dist.	242 Sep 17 j 16:33	29° \mathcal{R} 14'56	1.42338 AU		243 Aug 24 j 02:30	0° \mathcal{R}	
	242 Sep 18 j 03:29	0° \mathcal{E}		max. Earth dist.	243 Aug 30 j 23:12	12° \mathcal{R} 11'52	1.40441 AU
desc. node	242 Sep 23 j 04:51	8° \mathcal{E} 11'21		evening rise	243 Sep 04 j 11:37	19° \mathcal{R} 49'37	
evening rise	242 Sep 24 j 02:08	9° \mathcal{E} 35'48		desc. node	243 Sep 10 j 01:52	28° \mathcal{R} 51'51	
	242 Oct 07 j 11:56	0° \mathcal{R}			243 Sep 10 j 19:12	0° \mathcal{E}	
evening max el	242 Oct 26 j 11:13	24° \mathcal{R} 49'38	22°07'40	evening max el	243 Oct 01 j 18:47	0° \mathcal{R}	
	242 Nov 02 j 13:45	0° \mathcal{R}			243 Oct 09 j 01:51	8° \mathcal{R} 21'26	23°27'23
retrograde	242 Nov 04 j 20:36	0° \mathcal{R} 24'39		retrograde	243 Oct 19 j 13:50	14° \mathcal{R} 33'42	
	242 Nov 07 j 00:40	30° \mathcal{R} \mathcal{R}		evening set	243 Oct 24 j 13:56	12° \mathcal{R} 29'12	
evening set	242 Nov 09 j 07:20	28° \mathcal{R} 38'08		asc. node	243 Oct 28 j 13:30	8° \mathcal{R} 00'20	
asc. node	242 Nov 10 j 16:28	27° \mathcal{R} 21'14		inferior conj	243 Oct 29 j 22:46	6° \mathcal{R} 07'22	0°28'36
inferior conj	242 Nov 14 j 15:40	22° \mathcal{R} 19'57	1°20'02	minimum elong	243 Oct 29 j 22:06	6° \mathcal{R} 09'40	0°28'19
minimum elong	242 Nov 14 j 13:56	22° \mathcal{R} 25'59	1°19'19	min. Earth dist.	243 Oct 29 j 12:44	6° \mathcal{R} 41'44	0.67656 AU
min. Earth dist.	242 Nov 14 j 16:09	22° \mathcal{R} 18'19	0.67659 AU	morning rise	243 Nov 04 j 06:11	29° \mathcal{E} 59'02	
morning rise	242 Nov 19 j 20:21	16° \mathcal{R} 07'49			243 Nov 04 j 05:41	30° \mathcal{R} \mathcal{E}	
direct	242 Nov 24 j 14:26	14° \mathcal{R} 08'38		direct	243 Nov 08 j 10:01	28° \mathcal{E} 22'25	
morning max el	242 Dec 04 j 06:15	19° \mathcal{R} 51'52	22°33'28		243 Nov 12 j 23:57	0° \mathcal{R}	
	242 Dec 12 j 19:05	0° \mathcal{R}		morning max el	243 Nov 16 j 22:23	3° \mathcal{R} 20'40	21°11'14
desc. node	242 Dec 20 j 04:05	10° \mathcal{R} 11'29			243 Dec 06 j 19:48	0° \mathcal{R}	
	243 Jan 02 j 06:56	0° \mathcal{E}		desc. node	243 Dec 07 j 01:08	0° \mathcal{R} 19'52	
morning set	243 Jan 07 j 02:06	7° \mathcal{E} 42'55		morning set	243 Dec 17 j 12:21	16° \mathcal{R} 22'20	
max. Earth dist.	243 Jan 12 j 03:06	16° \mathcal{E} 07'09	1.40444 AU	max. Earth dist.	243 Dec 25 j 05:56	28° \mathcal{R} 45'48	1.42413 AU
					243 Dec 26 j 00:02	0° \mathcal{E}	
superior conj	243 Jan 19 j 22:30	29° \mathcal{E} 48'09	-2°00'10	superior conj	244 Jan 01 j 10:57	10° \mathcal{E} 49'30	-2°00'54
minimum elong	243 Jan 20 j 00:26	29° \mathcal{E} 56'53	2°00'06	minimum elong	244 Jan 01 j 08:54	10° \mathcal{E} 40'46	2°00'52
	243 Jan 20 j 01:07	0° \mathcal{R}			244 Jan 12 j 07:52	0° \mathcal{R}	
evening rise	243 Jan 29 j 21:49	18° \mathcal{R} 20'46		evening rise	244 Jan 12 j 20:27	0° \mathcal{R} 56'47	
	243 Feb 05 j 04:57	0° \mathcal{R}		asc. node	244 Jan 24 j 12:49	21° \mathcal{R} 00'00	
asc. node	243 Feb 06 j 15:46	2° \mathcal{R} 31'56		evening max el	244 Jan 29 j 13:55	27° \mathcal{R} 21'52	18°08'00
evening max el	243 Feb 15 j 03:34	14° \mathcal{R} 21'58	18°21'56		244 Feb 02 j 02:13	0° \mathcal{R}	
retrograde	243 Feb 22 j 10:28	17° \mathcal{R} 58'20		retrograde	244 Feb 05 j 06:11	0° \mathcal{R} 47'20	
evening set	243 Feb 24 j 22:25	17° \mathcal{R} 34'03		evening set	244 Feb 07 j 22:47	0° \mathcal{R} 14'06	
inferior conj	243 Mar 04 j 03:41	12° \mathcal{R} 56'57	3°17'18		244 Feb 08 j 11:36	30° \mathcal{R} \mathcal{R}	
minimum elong	243 Mar 04 j 07:07	12° \mathcal{R} 49'47	3°16'42	inferior conj	244 Feb 14 j 13:24	25° \mathcal{R} 15'40	3°44'59
min. Earth dist.	243 Mar 07 j 14:05	10° \mathcal{R} 06'38	0.59080 AU	minimum elong	244 Feb 14 j 14:39	25° \mathcal{R} 12'37	3°44'55
morning rise	243 Mar 11 j 13:24	7° \mathcal{R} 24'41		min. Earth dist.	244 Feb 17 j 16:40	22° \mathcal{R} 15'35	0.61190 AU
direct	243 Mar 17 j 19:54	5° \mathcal{R} 40'22		morning rise	244 Feb 21 j 04:59	19° \mathcal{R} 25'28	
desc. node	243 Mar 18 j 03:12	5° \mathcal{R} 40'37		direct	244 Feb 28 j 01:14	17° \mathcal{R} 06'13	
morning max el	243 Apr 01 j 03:43	13° \mathcal{R} 22'21	27°03'39	desc. node	244 Mar 04 j 00:15	18° \mathcal{R} 12'29	
	243 Apr 14 j 08:28	0° \mathcal{Y}		morning max el	244 Mar 13 j 05:23	24° \mathcal{R} 56'40	27°42'23
	243 May 01 j 00:42	0° \mathcal{B}			244 Mar 17 j 20:47	0° \mathcal{R}	
morning set	243 May 01 j 13:46	1° \mathcal{B} 07'56			244 Apr 06 j 16:47	0° \mathcal{Y}	
asc. node	243 May 05 j 15:03	9° \mathcal{B} 47'16		morning set	244 Apr 14 j 19:35	15° \mathcal{Y} 43'51	
				max. Earth dist.	244 Apr 20 j 21:30	28° \mathcal{Y} 38'19	1.32441 AU
superior conj	243 May 08 j 15:44	16° \mathcal{B} 25'04	0°31'35	asc. node	244 Apr 21 j 12:07	29° \mathcal{Y} 57'55	
minimum elong	243 May 08 j 14:23	16° \mathcal{B} 17'36	0°31'18		244 Apr 21 j 12:30	0° \mathcal{B}	

superior conj	244 Apr 22 j 02:40	1°♄17'21	0°06'26	max. Earth dist.	245 Apr 04 j 04:02	11°♄03'36	1.32956 AU
minimum elong	244 Apr 22 j 02:22	1°♄15'43	0°06'22				
behind sun begin	244 Apr 21 j 21:42	0°♄50'10		superior conj	245 Apr 06 j 11:02	15°♄57'50	-0°20'12
behind sun end	244 Apr 22 j 07:03	1°♄41'16		minimum elong	245 Apr 06 j 12:01	16°♄03'03	0°19'59
evening rise	244 Apr 29 j 00:34	16°♄16'59		asc. node	245 Apr 08 j 09:11	20°♄07'01	
	244 May 05 j 20:30	0°♄			245 Apr 12 j 23:22	0°♄	
evening max el	244 May 25 j 05:54	27°♄55'27	24°59'06	evening rise	245 Apr 13 j 12:23	1°♄08'54	
	244 May 27 j 13:42	0°♄			245 Apr 29 j 14:59	0°♄	
desc. node	244 May 30 j 23:29	2°♄26'57		evening max el	245 May 06 j 20:11	8°♄30'52	23°25'42
retrograde	244 Jun 08 j 05:40	5°♄02'03		desc. node	245 May 17 j 20:31	15°♄03'25	
evening set	244 Jun 13 j 11:45	3°♄58'49		retrograde	245 May 20 j 10:30	15°♄18'36	
min. Earth dist.	244 Jun 18 j 17:25	1°♄10'21	0.57450 AU	evening set	245 May 24 j 05:16	14°♄47'08	
	244 Jun 20 j 11:53	30°♄		min. Earth dist.	245 May 31 j 06:24	11°♄33'17	0.55873 AU
inferior conj	244 Jun 21 j 17:57	29°♄09'16	-4°39'39	inferior conj	245 Jun 02 j 06:27	10°♄21'59	-3°52'58
minimum elong	244 Jun 21 j 15:01	29°♄14'12	4°39'24	minimum elong	245 Jun 01 j 23:32	10°♄32'18	3°51'27
morning rise	244 Jun 29 j 21:03	24°♄58'59		morning rise	245 Jun 10 j 20:35	6°♄26'24	
direct	244 Jul 02 j 10:53	24°♄39'42		direct	245 Jun 13 j 13:20	6°♄08'30	
morning max el	244 Jul 11 j 08:30	28°♄49'03	19°08'48	morning max el	245 Jun 24 j 00:07	10°♄58'29	20°15'23
	244 Jul 12 j 13:01	0°♄		asc. node	245 Jul 05 j 08:26	26°♄38'11	
asc. node	244 Jul 18 j 11:21	7°♄52'23			245 Jul 07 j 04:36	0°♄	
morning set	244 Jul 28 j 06:06	25°♄46'54		morning set	245 Jul 12 j 10:45	10°♄20'35	
	244 Jul 30 j 09:03	0°♄					
				superior conj	245 Jul 20 j 03:36	26°♄05'57	1°45'26
superior conj	244 Aug 05 j 13:06	12°♄09'03	1°46'25	minimum elong	245 Jul 20 j 02:39	26°♄01'10	1°45'25
minimum elong	244 Aug 05 j 13:50	12°♄12'38	1°46'24		245 Jul 22 j 02:23	0°♄	
max. Earth dist.	244 Aug 12 j 02:31	24°♄27'15	1.38414 AU	max. Earth dist.	245 Jul 25 j 07:43	6°♄17'35	1.36510 AU
	244 Aug 15 j 05:05	0°♄		evening rise	245 Jul 29 j 06:30	13°♄42'17	
evening rise	244 Aug 15 j 21:56	1°♄13'45			245 Aug 07 j 16:20	0°♄	
desc. node	244 Aug 26 j 22:52	19°♄23'12		desc. node	245 Aug 13 j 19:53	9°♄39'49	
	244 Sep 03 j 01:17	0°♄			245 Aug 28 j 21:12	0°♄	
evening max el	244 Sep 20 j 13:50	21°♄56'27	24°46'04	evening max el	245 Sep 03 j 01:20	5°♄33'27	25°56'25
retrograde	244 Oct 02 j 03:14	28°♄40'31		retrograde	245 Sep 15 j 12:05	12°♄39'18	
evening set	244 Oct 07 j 17:46	26°♄18'39		evening set	245 Sep 21 j 16:57	10°♄03'12	
min. Earth dist.	244 Oct 12 j 07:53	21°♄05'17	0.67330 AU	min. Earth dist.	245 Sep 25 j 23:14	5°♄25'45	0.66674 AU
inferior conj	244 Oct 13 j 04:28	19°♄57'03	-0°25'59	inferior conj	245 Sep 27 j 06:56	3°♄45'54	-1°22'16
minimum elong	244 Oct 13 j 05:06	19°♄54'55	0°25'42	minimum elong	245 Sep 27 j 09:02	3°♄39'17	1°21'24
asc. node	244 Oct 14 j 10:34	18°♄18'31			245 Sep 30 j 11:58	30°♄	
morning rise	244 Oct 18 j 16:32	13°♄54'57		asc. node	245 Oct 01 j 07:38	29°♄12'31	
direct	244 Oct 22 j 07:44	12°♄38'56		morning rise	245 Oct 03 j 01:25	27°♄52'47	
morning max el	244 Oct 29 j 22:10	17°♄00'22	20°00'07	direct	245 Oct 06 j 06:10	26°♄53'59	
	244 Nov 09 j 02:30	0°♄			245 Oct 12 j 09:15	0°♄	
desc. node	244 Nov 22 j 22:12	20°♄44'24		morning max el	245 Oct 13 j 05:12	0°♄48'21	19°03'17
morning set	244 Nov 25 j 08:51	24°♄30'26			245 Nov 02 j 13:45	0°♄	
	244 Nov 28 j 21:47	0°♄		morning set	245 Nov 04 j 16:12	3°♄17'34	
max. Earth dist.	244 Dec 06 j 16:11	12°♄14'28	1.43942 AU	desc. node	245 Nov 09 j 19:13	11°♄19'34	
				max. Earth dist.	245 Nov 19 j 07:46	26°♄16'24	1.44845 AU
superior conj	244 Dec 11 j 20:58	20°♄37'29	-1°45'08				
minimum elong	244 Dec 11 j 14:04	20°♄09'24	1°44'38	superior conj	245 Nov 21 j 06:47	29°♄21'47	-1°10'57
	244 Dec 17 j 13:18	0°♄		minimum elong	245 Nov 20 j 22:44	28°♄50'00	1°10'03
evening rise	244 Dec 25 j 01:18	12°♄43'13			245 Nov 21 j 16:27	0°♄	
	245 Jan 04 j 06:52	0°♄		evening rise	245 Dec 06 j 08:04	23°♄32'04	
asc. node	245 Jan 10 j 09:52	8°♄44'49			245 Dec 10 j 06:54	0°♄	
evening max el	245 Jan 12 j 02:22	10°♄36'33	18°13'24	evening max el	245 Dec 26 j 14:13	23°♄59'52	18°37'23
retrograde	245 Jan 18 j 14:00	14°♄04'31		asc. node	245 Dec 28 j 06:55	25°♄33'43	
evening set	245 Jan 21 j 11:07	13°♄21'26		retrograde	246 Jan 02 j 05:36	27°♄41'26	
inferior conj	245 Jan 27 j 14:39	8°♄02'59	3°48'23	evening set	246 Jan 05 j 07:59	26°♄47'24	
minimum elong	245 Jan 27 j 13:54	8°♄05'03	3°48'22	inferior conj	246 Jan 11 j 03:30	21°♄10'55	3°34'16
min. Earth dist.	245 Jan 30 j 04:28	5°♄15'38	0.63164 AU	minimum elong	246 Jan 11 j 01:24	21°♄17'12	3°33'57
morning rise	245 Feb 02 j 15:49	2°♄01'54		min. Earth dist.	246 Jan 13 j 01:58	18°♄52'10	0.64823 AU
	245 Feb 06 j 02:22	30°♄		morning rise	246 Jan 16 j 18:22	15°♄03'27	
direct	245 Feb 09 j 15:29	29°♄18'37		direct	246 Jan 23 j 13:06	12°♄11'04	
	245 Feb 13 j 09:12	0°♄		desc. node	246 Feb 05 j 18:25	19°♄48'53	
desc. node	245 Feb 18 j 21:20	3°♄07'20		morning max el	246 Feb 05 j 21:46	19°♄57'14	27°10'53
morning max el	245 Feb 23 j 12:20	7°♄11'30	27°43'53		246 Feb 14 j 13:01	0°♄	
	245 Mar 12 j 23:54	0°♄			246 Mar 06 j 00:34	0°♄	
morning set	245 Mar 29 j 19:20	29°♄58'17		morning set	246 Mar 13 j 10:03	13°♄42'02	
	245 Mar 29 j 19:40	0°♄		max. Earth dist.	246 Mar 18 j 01:33	22°♄57'44	1.33902 AU

	246 Mar 21 j 10:58	0°♿		max. Earth dist.	247 Feb 28 j 11:24	4°♿17'34	1.35310 AU
superior conj	246 Mar 21 j 14:55	0°♿20'44	-0°47'12	superior conj	247 Mar 05 j 11:48	14°♿17'35	-1°13'17
minimum elong	246 Mar 21 j 17:12	0°♿32'44	0°46'46	minimum elong	247 Mar 05 j 15:12	14°♿34'56	1°12'43
asc. node	246 Mar 26 j 06:13	10°♿10'44		evening rise	247 Mar 13 j 06:42	0°♿21'39	
evening rise	246 Mar 28 j 23:06	15°♿52'54		asc. node	247 Mar 13 j 03:15	0°♿03'58	
	246 Apr 05 j 02:17	0°♿			247 Mar 13 j 02:29	0°♿	
evening max el	246 Apr 18 j 14:31	19°♿10'10	21°51'49		247 Mar 31 j 11:29	0°♿	
retrograde	246 May 01 j 03:35	25°♿18'20		evening max el	247 Mar 31 j 18:28	0°♿17'01	20°29'06
evening set	246 May 03 j 18:07	25°♿03'10		retrograde	247 Apr 11 j 16:34	5°♿32'42	
desc. node	246 May 04 j 17:34	24°♿50'03		evening set	247 Apr 13 j 19:38	5°♿21'33	
inferior conj	246 May 13 j 04:06	20°♿59'13	-2°21'19	desc. node	247 Apr 21 j 14:37	2°♿10'28	
minimum elong	246 May 12 j 21:51	21°♿07'59	2°19'17	inferior conj	247 Apr 22 j 22:55	1°♿23'57	-0°23'15
min. Earth dist.	246 May 12 j 19:11	21°♿11'43	0.55046 AU	minimum elong	247 Apr 22 j 21:50	1°♿25'32	0°22'51
morning rise	246 May 22 j 02:44	17°♿03'20		min. Earth dist.	247 Apr 24 j 08:28	0°♿35'18	0.55163 AU
direct	246 May 25 j 02:16	16°♿43'38			247 Apr 25 j 09:17	30°♿♿	
morning max el	246 Jun 06 j 04:30	22°♿24'53	21°40'55	morning rise	247 May 01 j 22:49	27°♿09'25	
	246 Jun 12 j 17:25	0°♿		direct	247 May 05 j 13:53	26°♿40'54	
asc. node	246 Jun 22 j 05:29	15°♿54'33			247 May 15 j 01:12	0°♿	
morning set	246 Jun 26 j 19:41	25°♿08'27		morning max el	247 May 18 j 23:25	3°♿12'23	23°19'31
	246 Jun 29 j 03:24	0°♿			247 Jun 06 j 07:29	0°♿	
				asc. node	247 Jun 09 j 02:31	5°♿32'50	
superior conj	246 Jul 04 j 03:18	10°♿31'13	1°37'29	morning set	247 Jun 11 j 06:56	10°♿04'07	
minimum elong	246 Jul 04 j 01:17	10°♿20'43	1°37'20				
max. Earth dist.	246 Jul 07 j 20:43	18°♿11'14	1.34913 AU	superior conj	247 Jun 18 j 09:07	25°♿14'45	1°24'05
evening rise	246 Jul 12 j 08:33	27°♿02'49		minimum elong	247 Jun 18 j 06:39	25°♿01'35	1°23'46
	246 Jul 13 j 21:52	0°♿			247 Jun 20 j 14:43	0°♿	
desc. node	246 Jul 31 j 16:53	29°♿34'54		max. Earth dist.	247 Jun 20 j 19:23	0°♿24'38	1.33694 AU
	246 Jul 31 j 23:49	0°♿		evening rise	247 Jun 25 j 23:23	11°♿01'21	
evening max el	246 Aug 16 j 13:21	19°♿07'20	26°50'35		247 Jul 06 j 05:37	0°♿	
retrograde	246 Aug 29 j 15:38	26°♿23'50		desc. node	247 Jul 18 j 13:54	18°♿58'52	
evening set	246 Sep 05 j 09:17	23°♿39'27			247 Jul 27 j 14:40	0°♿	
min. Earth dist.	246 Sep 09 j 08:22	19°♿39'00	0.65671 AU	evening max el	247 Jul 30 j 01:01	2°♿27'02	27°21'10
inferior conj	246 Sep 11 j 04:10	17°♿30'42	-2°18'24	retrograde	247 Aug 12 j 13:21	9°♿46'01	
minimum elong	246 Sep 11 j 07:41	17°♿20'24	2°17'05	evening set	247 Aug 19 j 16:00	7°♿02'36	
morning rise	246 Sep 17 j 06:39	11°♿49'38		min. Earth dist.	247 Aug 23 j 08:58	3°♿37'51	0.64304 AU
asc. node	246 Sep 18 j 04:42	11°♿25'17		inferior conj	247 Aug 25 j 17:48	1°♿06'16	-3°11'56
direct	246 Sep 20 j 03:20	11°♿04'18		minimum elong	247 Aug 25 j 22:23	0°♿54'01	3°10'31
morning max el	246 Sep 26 j 17:40	14°♿40'45	18°22'31		247 Aug 26 j 18:52	30°♿♿	
	246 Oct 07 j 18:52	0°♿		morning rise	247 Sep 01 j 05:39	25°♿40'47	
morning set	246 Oct 16 j 02:30	13°♿26'53		direct	247 Sep 03 j 20:46	25°♿05'23	
	246 Oct 26 j 09:32	0°♿		asc. node	247 Sep 05 j 01:43	25°♿12'55	
desc. node	246 Oct 27 j 16:13	2°♿01'49		morning max el	247 Sep 10 j 09:03	28°♿32'20	17°58'56
					247 Sep 11 j 17:35	0°♿	
superior conj	246 Oct 31 j 07:23	7°♿46'25	-0°23'47	morning set	247 Sep 27 j 16:47	24°♿58'06	
minimum elong	246 Oct 31 j 04:16	7°♿34'07	0°23'22		247 Sep 30 j 16:00	0°♿	
max. Earth dist.	246 Nov 02 j 02:19	10°♿35'26	1.45031 AU				
	246 Nov 14 j 11:23	0°♿		superior conj	247 Oct 10 j 20:47	16°♿52'44	0°24'18
evening rise	246 Nov 16 j 15:04	3°♿22'46		minimum elong	247 Oct 10 j 23:32	17°♿03'49	0°23'56
greatest brilliancy	246 Nov 27 j 06:27	20°♿00'55	-0.8m	desc. node	247 Oct 14 j 13:13	22°♿48'05	
	246 Dec 03 j 23:36	0°♿		max. Earth dist.	247 Oct 15 j 20:50	24°♿53'55	1.44479 AU
evening max el	246 Dec 09 j 23:09	7°♿27'01	19°18'32		247 Oct 19 j 02:20	0°♿	
asc. node	246 Dec 15 j 03:57	11°♿31'48		evening rise	247 Oct 27 j 03:23	12°♿30'41	
retrograde	246 Dec 17 j 01:31	11°♿31'45			247 Nov 07 j 15:14	0°♿	
evening set	246 Dec 20 j 10:34	10°♿25'12		evening max el	247 Nov 23 j 03:20	20°♿55'42	20°14'55
inferior conj	246 Dec 26 j 00:32	4°♿33'00	3°07'23	retrograde	247 Nov 30 j 23:08	25°♿31'41	
minimum elong	246 Dec 25 j 21:50	4°♿41'43	3°06'44	asc. node	247 Dec 02 j 00:59	25°♿25'06	
min. Earth dist.	246 Dec 27 j 08:12	2°♿51'23	0.66103 AU	evening set	247 Dec 04 j 16:38	24°♿10'52	
	246 Dec 29 j 17:29	30°♿♿		inferior conj	247 Dec 10 j 03:05	18°♿05'45	2°31'05
morning rise	246 Dec 31 j 08:51	28°♿21'48		minimum elong	247 Dec 10 j 00:23	18°♿14'52	2°30'14
direct	247 Jan 06 j 16:48	25°♿34'16		min. Earth dist.	247 Dec 10 j 21:28	17°♿03'52	0.66992 AU
	247 Jan 16 j 01:00	0°♿		morning rise	247 Dec 15 j 07:57	11°♿52'40	
morning max el	247 Jan 19 j 07:06	3°♿00'54	26°10'12	direct	247 Dec 21 j 01:49	9°♿20'09	
desc. node	247 Jan 23 j 15:27	7°♿46'02		morning max el	248 Jan 01 j 15:39	16°♿13'49	24°51'09
	247 Feb 08 j 19:12	0°♿		desc. node	248 Jan 10 j 12:28	26°♿36'59	
morning set	247 Feb 24 j 11:41	26°♿41'50			248 Jan 13 j 01:36	0°♿	
	247 Feb 26 j 05:50	0°♿			248 Feb 01 j 18:03	0°♿	

morning set	248 Feb 06 j 19:05	8° \approx 43'13		max. Earth dist.	249 Jan 22 j 06:09	26° \approx 39'02	1.39223 AU
max. Earth dist.	248 Feb 10 j 11:02	15° \approx 20'45	1.37136 AU		249 Jan 24 j 03:49	0° \approx	
superior conj	248 Feb 16 j 22:41	27° \approx 40'04	-1°36'27	superior conj	249 Jan 29 j 19:34	10° \approx 17'21	-1°54'01
minimum elong	248 Feb 17 j 02:37	27° \approx 59'16	1°35'59	minimum elong	249 Jan 29 j 22:46	10° \approx 32'18	1°53'49
	248 Feb 18 j 03:12	0° \approx		evening rise	249 Feb 08 j 03:17	28° \approx 06'44	
evening rise	248 Feb 25 j 09:00	14° \approx 28'48			249 Feb 09 j 02:46	0° \approx	
asc. node	248 Feb 28 j 00:17	19° \approx 42'00		asc. node	249 Feb 13 j 21:20	8° \approx 58'50	
	248 Mar 04 j 14:00	0° \approx		evening max el	249 Feb 24 j 10:38	24° \approx 22'10	18°38'46
evening max el	248 Mar 13 j 09:40	12° \approx 01'43	19°23'59	retrograde	249 Mar 04 j 07:28	28° \approx 12'20	
retrograde	248 Mar 22 j 15:07	16° \approx 28'02		evening set	249 Mar 06 j 16:11	27° \approx 52'48	
evening set	248 Mar 24 j 18:55	16° \approx 14'31		inferior conj	249 Mar 14 j 07:29	23° \approx 27'38	2°47'20
inferior conj	248 Apr 02 j 05:16	12° \approx 07'14	1°27'26	minimum elong	249 Mar 14 j 11:42	23° \approx 19'35	2°46'20
minimum elong	248 Apr 02 j 08:38	12° \approx 01'42	1°26'20	min. Earth dist.	249 Mar 17 j 16:32	20° \approx 54'07	0.57909 AU
min. Earth dist.	248 Apr 04 j 23:01	10° \approx 20'11	0.56195 AU	morning rise	249 Mar 22 j 04:18	18° \approx 09'15	
desc. node	248 Apr 07 j 11:38	8° \approx 50'27		desc. node	249 Mar 25 j 08:40	17° \approx 03'25	
morning rise	248 Apr 10 j 19:35	7° \approx 20'43		direct	249 Mar 27 j 22:03	16° \approx 46'54	
direct	248 Apr 15 j 10:59	6° \approx 31'43		morning max el	249 Apr 11 j 06:42	24° \approx 21'27	26°25'58
morning max el	248 Apr 29 j 14:08	13° \approx 41'49	24°59'38		249 Apr 16 j 10:21	0° \approx	
	248 May 12 j 08:15	0° \approx			249 May 05 j 07:52	0° \approx	
morning set	248 May 25 j 18:52	25° \approx 02'15		morning set	249 May 10 j 05:52	9° \approx 57'26	
asc. node	248 May 25 j 23:32	25° \approx 26'53		asc. node	249 May 12 j 20:36	15° \approx 31'35	
	248 May 28 j 02:42	0° \approx					
superior conj	248 Jun 01 j 18:44	10° \approx 09'17	1°06'19	superior conj	249 May 17 j 06:15	25° \approx 08'31	0°45'05
minimum elong	248 Jun 01 j 16:21	9° \approx 56'22	1°05'55	minimum elong	249 May 17 j 04:25	24° \approx 58'26	0°44'43
max. Earth dist.	248 Jun 03 j 02:06	12° \approx 59'46	1.32863 AU	max. Earth dist.	249 May 17 j 13:37	25° \approx 48'55	1.32404 AU
evening rise	248 Jun 08 j 23:18	25° \approx 26'47			249 May 19 j 11:28	0° \approx	
	248 Jun 11 j 05:29	0° \approx		evening rise	249 May 24 j 05:24	10° \approx 10'09	
	248 Jun 28 j 18:00	0° \approx			249 Jun 03 j 12:31	0° \approx	
desc. node	248 Jul 04 j 10:56	7° \approx 38'30		desc. node	249 Jun 21 j 07:57	25° \approx 15'41	
evening max el	248 Jul 11 j 10:02	15° \approx 18'47	27°22'01	evening max el	249 Jun 23 j 13:55	27° \approx 31'25	26°50'02
retrograde	248 Jul 25 j 04:41	22° \approx 36'40			249 Jun 26 j 09:38	0° \approx	
evening set	248 Aug 01 j 09:32	20° \approx 06'24		retrograde	249 Jul 07 j 13:01	4° \approx 47'18	
min. Earth dist.	248 Aug 04 j 23:24	17° \approx 11'06	0.62590 AU	evening set	249 Jul 14 j 09:38	2° \approx 44'09	
inferior conj	248 Aug 07 j 20:56	14° \approx 25'33	-3°59'08	min. Earth dist.	249 Jul 18 j 03:41	0° \approx 05'11	0.60611 AU
minimum elong	248 Aug 08 j 01:44	14° \approx 14'05	3°58'03		249 Jul 18 j 06:16	30° \approx 00'00	
morning rise	248 Aug 14 j 19:13	9° \approx 19'04		inferior conj	249 Jul 21 j 10:17	27° \approx 20'56	-4°33'57
direct	248 Aug 17 j 07:12	8° \approx 50'44		minimum elong	249 Jul 21 j 13:41	27° \approx 13'46	4°33'32
asc. node	248 Aug 21 j 22:46	10° \approx 30'51		morning rise	249 Jul 28 j 19:37	22° \approx 36'08	
morning max el	248 Aug 24 j 00:32	12° \approx 16'31	17°53'18	direct	249 Jul 31 j 06:48	22° \approx 12'35	
	248 Sep 04 j 23:27	0° \approx		morning max el	249 Aug 07 j 13:11	25° \approx 46'28	18°06'36
morning set	248 Sep 09 j 05:25	7° \approx 33'01		asc. node	249 Aug 08 j 19:49	27° \approx 06'06	
					249 Aug 11 j 04:03	0° \approx	
superior conj	248 Sep 20 j 12:06	27° \approx 16'14	1°03'09	morning set	249 Aug 23 j 10:36	20° \approx 55'49	
minimum elong	248 Sep 20 j 17:02	27° \approx 37'06	1°02'34		249 Aug 28 j 07:30	0° \approx	
	248 Sep 22 j 02:58	0° \approx		superior conj	249 Sep 02 j 06:03	8° \approx 58'46	1°29'12
max. Earth dist.	248 Sep 27 j 11:50	8° \approx 51'21	1.43265 AU	minimum elong	249 Sep 02 j 10:03	9° \approx 16'39	1°28'50
desc. node	248 Sep 30 j 10:15	13° \approx 34'41		max. Earth dist.	249 Sep 09 j 21:00	22° \approx 11'13	1.41555 AU
evening rise	248 Oct 05 j 10:59	21° \approx 30'24			249 Sep 14 j 14:44	0° \approx	
	248 Oct 10 j 23:37	0° \approx		evening rise	249 Sep 15 j 07:38	1° \approx 08'13	
	248 Nov 01 j 04:08	0° \approx		desc. node	249 Sep 17 j 07:17	4° \approx 18'41	
evening max el	248 Nov 05 j 01:43	4° \approx 24'11	21°23'51		249 Oct 04 j 11:23	0° \approx	
retrograde	248 Nov 13 j 20:22	9° \approx 37'19		evening max el	249 Oct 18 j 18:40	17° \approx 54'02	22°41'13
asc. node	248 Nov 17 j 22:01	8° \approx 04'48		retrograde	249 Oct 28 j 15:33	23° \approx 46'01	
evening set	248 Nov 18 j 00:15	8° \approx 00'30		evening set	249 Nov 02 j 07:42	21° \approx 51'54	
inferior conj	248 Nov 23 j 08:53	1° \approx 45'48	1°47'36	asc. node	249 Nov 04 j 19:03	19° \approx 19'35	
minimum elong	248 Nov 23 j 06:41	1° \approx 53'26	1°46'47	inferior conj	249 Nov 07 j 16:04	15° \approx 31'25	0°58'42
min. Earth dist.	248 Nov 23 j 15:31	1° \approx 22'57	0.67511 AU	minimum elong	249 Nov 07 j 14:44	15° \approx 36'00	0°58'09
	248 Nov 24 j 15:47	30° \approx 00'00		min. Earth dist.	249 Nov 07 j 12:00	15° \approx 45'26	0.67692 AU
morning rise	248 Nov 28 j 12:58	25° \approx 32'41		morning rise	249 Nov 12 j 21:38	9° \approx 20'25	
direct	248 Dec 03 j 15:34	23° \approx 20'49		direct	249 Nov 17 j 09:24	7° \approx 31'04	
morning max el	248 Dec 14 j 00:41	29° \approx 31'26	23°23'46	morning max el	249 Nov 26 j 13:16	12° \approx 55'06	21°57'24
	248 Dec 14 j 11:52	0° \approx			249 Dec 10 j 01:57	0° \approx	
desc. node	248 Dec 27 j 09:30	16° \approx 05'52		desc. node	249 Dec 14 j 06:33	6° \approx 20'10	
	249 Jan 05 j 21:47	0° \approx		morning set	249 Dec 29 j 03:45	28° \approx 51'52	
morning set	249 Jan 18 j 01:57	19° \approx 29'36			249 Dec 29 j 20:43	0° \approx	

max. Earth dist.	250 Jan 04 j 04:11	8°  42'34	1.41316 AU		250 Nov 12 j 12:46	0° 	
				desc. node	250 Dec 01 j 03:36	26°  18'02	
superior conj	250 Jan 11 j 21:27	21°  57'34	-2°02'13		250 Dec 03 j 13:57	0° 	
minimum elong	250 Jan 11 j 21:57	21°  59'48	2°02'13	morning set	250 Dec 08 j 05:25	7°  09'30	
	250 Jan 16 j 09:09	0° 		max. Earth dist.	250 Dec 17 j 09:53	21°  42'39	1.43126 AU
evening rise	250 Jan 22 j 10:15	11°  07'49			250 Dec 22 j 11:20	0° 	
asc. node	250 Jan 31 j 18:23	27°  47'25					
	250 Feb 02 j 03:57	0° 		superior conj	250 Dec 23 j 23:04	2°  28'50	-1°56'29
evening max el	250 Feb 07 j 18:33	7°  10'45	18°13'36	minimum elong	250 Dec 23 j 18:52	2°  11'17	1°56'17
retrograde	250 Feb 14 j 18:01	10°  40'42		evening rise	251 Jan 05 j 01:52	23°  23'49	
evening set	250 Feb 17 j 07:55	10°  12'53			251 Jan 08 j 19:37	0° 	
inferior conj	250 Feb 24 j 06:32	5°  26'57	3°32'29	asc. node	251 Jan 18 j 15:26	15°  58'59	
minimum elong	250 Feb 24 j 09:05	5°  21'15	3°32'10	evening max el	251 Jan 22 j 06:17	20°  18'55	18°08'03
min. Earth dist.	250 Feb 27 j 15:13	2°  29'03	0.59978 AU	retrograde	251 Jan 28 j 19:18	23°  43'33	
	250 Mar 02 j 22:59	30° 		evening set	251 Jan 31 j 13:53	23°  06'11	
morning rise	250 Mar 03 j 08:09	29°  45'50		inferior conj	251 Feb 06 j 23:23	17°  59'18	3°48'56
direct	250 Mar 09 j 21:51	27°  45'24		minimum elong	251 Feb 06 j 23:44	17°  58'26	3°48'56
desc. node	250 Mar 12 j 05:44	27°  59'55		min. Earth dist.	251 Feb 09 j 21:31	15°  02'08	0.62061 AU
	250 Mar 17 j 05:14	0° 		morning rise	251 Feb 13 j 08:22	12°  04'03	
morning max el	250 Mar 24 j 04:41	5°  32'39	27°24'33	direct	251 Feb 20 j 07:29	9°  32'39	
	250 Apr 11 j 09:32	0° 		desc. node	251 Feb 27 j 02:46	11°  37'31	
morning set	250 Apr 24 j 14:08	24°  42'29		morning max el	251 Mar 06 j 08:40	17°  24'44	27°47'28
	250 Apr 27 j 02:24	0° 			251 Mar 16 j 20:35	0° 	
asc. node	250 Apr 29 j 17:39	5°  41'28			251 Apr 04 j 02:02	0° 	
max. Earth dist.	250 May 01 j 02:10	8°  39'13	1.32317 AU	morning set	251 Apr 08 j 17:42	9°  10'40	
				max. Earth dist.	251 Apr 14 j 12:05	21°  17'58	1.32613 AU
superior conj	250 May 01 j 17:53	10°  05'23	0°21'09				
minimum elong	250 May 01 j 16:57	10°  00'13	0°20'57	superior conj	251 Apr 16 j 04:00	24°  47'05	-0°04'45
evening rise	250 May 08 j 15:15	25°  02'31		minimum elong	251 Apr 16 j 04:13	24°  55'17	0°04'42
	250 May 11 j 00:31	0° 		behind sun begin	251 Apr 15 j 23:17	24°  28'29	
	250 May 28 j 15:44	0° 		behind sun end	251 Apr 16 j 09:09	25°  42'07	
evening max el	250 Jun 05 j 11:08	8°  58'46	25°46'46	asc. node	251 Apr 16 j 14:43	25°  42'27	
desc. node	250 Jun 08 j 04:59	11°  52'33			251 Apr 18 j 12:09	0° 	
retrograde	250 Jun 19 j 12:23	16°  50'22		evening rise	251 Apr 23 j 02:55	9°  57'05	
evening set	250 Jun 25 j 11:47	14°  45'02			251 May 03 j 11:26	0° 	
min. Earth dist.	250 Jun 29 j 23:35	12°  50'40	0.58555 AU	evening max el	251 May 18 j 02:46	19°  47'51	24°20'24
inferior conj	250 Jul 03 j 06:12	9°  52'05	-4°46'58	desc. node	251 May 26 j 01:59	25°  42'02	
minimum elong	250 Jul 03 j 06:03	9°  42'20	4°46'58	retrograde	251 Jun 01 j 00:01	26°  47'46	
morning rise	250 Jul 11 j 02:46	5°  59'33		evening set	251 Jun 05 j 15:09	25°  59'54	
direct	250 Jul 13 j 15:07	4°  59'05		min. Earth dist.	251 Jun 11 j 14:02	23°  52'02	0.56715 AU
morning max el	250 Jul 21 j 19:47	8°  52'13	18°40'00	inferior conj	251 Jun 14 j 06:06	21°  50'50	-4°25'31
asc. node	250 Jul 26 j 16:53	14°  42'30		minimum elong	251 Jun 14 j 01:09	21°  28'42	4°24'49
	250 Aug 04 j 14:42	0° 		morning rise	251 Jun 22 j 13:55	17°  51'39	
morning set	250 Aug 07 j 03:32	4°  53'07		direct	251 Jun 25 j 04:55	16°  59'04	
				morning max el	251 Jul 04 j 17:22	21°  24'14	19°34'29
superior conj	250 Aug 15 j 21:31	21°  45'10	1°43'07		251 Jul 11 j 15:23	0° 	
minimum elong	250 Aug 15 j 23:27	21°  54'16	1°43'00	asc. node	251 Jul 13 j 13:57	3°  50'24	
	250 Aug 20 j 08:49	0° 		morning set	251 Jul 22 j 04:43	19°  51'53	
max. Earth dist.	250 Aug 23 j 01:14	4°  47'13	1.39577 AU		251 Jul 27 j 12:35	0° 	
evening rise	250 Aug 27 j 03:41	11°  51'47					
desc. node	250 Sep 04 j 04:19	24°  55'47		superior conj	251 Jul 30 j 04:58	5°  20'11	1°46'57
	250 Sep 07 j 11:04	0° 		minimum elong	251 Jul 30 j 04:55	5°  19'57	1°46'57
	250 Sep 29 j 22:00	0° 		max. Earth dist.	251 Aug 05 j 04:49	16°  49'39	1.37584 AU
evening max el	250 Oct 01 j 07:56	1°  27'07	24°01'30	evening rise	251 Aug 09 j 00:01	23°  44'38	
retrograde	250 Oct 12 j 07:18	7°  54'10			251 Aug 12 j 14:01	0° 	
evening set	250 Oct 17 j 13:21	5°  42'22		desc. node	251 Aug 22 j 01:20	15°  21'34	
	250 Oct 22 j 11:01	30° 			251 Sep 01 j 04:18	0° 	
inferior conj	250 Oct 22 j 22:48	29°  20'07	0°05'47	evening max el	251 Sep 13 j 19:42	15°  20'51	25°17'36
minimum elong	250 Oct 22 j 22:39	29°  20'35	0°05'43	retrograde	251 Sep 25 j 18:40	21°  57'47	
transit middle	250 Oct 22 j 22:39	29°  20'35	0°05'43	evening set	251 Oct 01 j 15:24	19°  52'34	
transit begin	250 Oct 22 j 20:06	29°  29'14		min. Earth dist.	251 Oct 06 j 02:13	14°  31'12	0.67092 AU
transit end	250 Oct 23 j 01:12	29°  11'57		inferior conj	251 Oct 07 j 03:20	13°  50'32	-0°49'45
min. Earth dist.	250 Oct 22 j 08:24	0°  08'54	0.67551 AU	minimum elong	251 Oct 07 j 04:35	13°  50'28	0°49'13
asc. node	250 Oct 22 j 16:06	29°  42'47		asc. node	251 Oct 09 j 13:10	10°  09'10	
morning rise	250 Oct 28 j 07:56	23°  43'49		morning rise	251 Oct 12 j 17:54	7°  10'49	
direct	250 Nov 01 j 06:10	21°  46'10		direct	251 Oct 16 j 04:29	6°  02'22	
morning max el	250 Nov 09 j 08:26	26°  27'52	20°39'20	morning max el	251 Oct 23 j 11:20	10°  10'46	19°34'03

greatest brilliancy	251 Nov 06 j 04:41	28°♄38'07	-0.7m	asc. node	252 Sep 25 j 10:13	21°♎33'19	
	251 Nov 07 j 02:23	0°♍		morning rise	252 Sep 26 j 01:32	21°♎09'11	
morning set	251 Nov 17 j 03:32	15°♍25'41		direct	252 Sep 29 j 02:37	20°♎16'31	
desc. node	251 Nov 18 j 00:37	16°♍47'25		morning max el	252 Oct 05 j 21:01	24°♎01'46	18°43'59
	251 Nov 26 j 11:45	0°♌			252 Oct 10 j 19:11	0°♌	
max. Earth dist.	251 Nov 29 j 23:06	5°♌28'58	1.44410 AU	morning set	252 Oct 26 j 21:27	24°♌46'13	
					252 Oct 30 j 04:37	0°♍	
superior conj	251 Dec 03 j 21:49	11°♌46'32	-1°32'47	desc. node	252 Nov 03 j 21:38	7°♍26'20	
minimum elong	251 Dec 03 j 13:40	11°♌13'52	1°32'02	max. Earth dist.	252 Nov 11 j 16:50	19°♍42'27	1.45014 AU
	251 Dec 15 j 01:17	0°♋					
evening rise	251 Dec 17 j 21:42	4°♋46'10		superior conj	252 Nov 12 j 01:05	20°♍14'51	-0°51'53
	252 Jan 02 j 16:36	0°♊		minimum elong	252 Nov 11 j 18:32	19°♍49'09	0°51'04
asc. node	252 Jan 05 j 12:29	3°♊21'46			252 Nov 18 j 05:37	0°♌	
evening max el	252 Jan 05 j 18:48	3°♊38'03	18°21'26	evening rise	252 Nov 27 j 18:21	15°♌10'14	
retrograde	252 Jan 12 j 06:55	7°♊10'16			252 Dec 07 j 00:45	0°♋	
evening set	252 Jan 15 j 06:14	6°♊22'31		evening max el	252 Dec 19 j 05:36	17°♋02'59	18°52'49
inferior conj	252 Jan 21 j 06:00	0°♊55'58	3°44'13	asc. node	252 Dec 22 j 09:30	19°♋42'21	
minimum elong	252 Jan 21 j 04:35	1°♊00'00	3°44'05	retrograde	252 Dec 26 j 00:49	20°♋53'32	
	252 Jan 22 j 01:37	30°♑		evening set	252 Dec 29 j 05:51	19°♋54'18	
min. Earth dist.	252 Jan 23 j 13:13	28°♋19'40	0.63914 AU	inferior conj	253 Jan 03 j 22:42	14°♋10'31	3°24'12
morning rise	252 Jan 27 j 02:19	24°♋52'02		minimum elong	253 Jan 03 j 20:15	14°♋18'04	3°23'44
direct	252 Feb 03 j 00:49	22°♋03'19		min. Earth dist.	253 Jan 05 j 14:37	12°♋07'08	0.65413 AU
desc. node	252 Feb 13 j 23:49	27°♋21'53		morning rise	253 Jan 09 j 10:21	8°♋01'04	
morning max el	252 Feb 16 j 16:54	29°♋53'42	27°33'49	direct	253 Jan 16 j 00:52	5°♋09'34	
	252 Feb 16 j 19:25	0°♊		morning max el	253 Jan 29 j 02:44	12°♋49'04	26°48'03
	252 Mar 09 j 19:26	0°♑		desc. node	253 Jan 30 j 20:52	14°♋38'39	
morning set	252 Mar 22 j 13:59	23°♑13'07			253 Feb 11 j 23:32	0°♊	
	252 Mar 25 j 22:33	0°♑			253 Mar 02 j 10:06	0°♑	
max. Earth dist.	252 Mar 27 j 15:21	3°♑31'44	1.33312 AU	morning set	253 Mar 05 j 23:41	6°♑39'40	
				max. Earth dist.	253 Mar 10 j 08:21	15°♑11'50	1.34448 AU
superior conj	252 Mar 30 j 10:42	9°♑27'51	-0°31'40				
minimum elong	252 Mar 30 j 12:13	9°♑36'02	0°31'20	superior conj	253 Mar 14 j 11:53	23°♑40'12	-0°58'29
asc. node	252 Apr 02 j 11:46	15°♑59'50		minimum elong	253 Mar 14 j 14:41	23°♑54'46	0°57'58
evening rise	252 Apr 06 j 14:30	24°♑46'39			253 Mar 17 j 12:27	0°♑	
	252 Apr 09 j 02:58	0°♐		asc. node	253 Mar 20 j 08:48	5°♑59'34	
	252 Apr 28 j 09:17	0°♏		evening rise	253 Mar 22 j 00:08	9°♑24'51	
evening max el	252 Apr 28 j 17:51	0°♏20'57	22°44'54		253 Apr 01 j 23:26	0°♐	
retrograde	252 May 11 j 23:00	6°♏53'52		evening max el	253 Apr 10 j 15:35	11°♐08'53	21°14'39
desc. node	252 May 11 j 23:01	6°♏53'52		retrograde	253 Apr 22 j 13:19	16°♐56'07	
evening set	252 May 15 j 04:24	6°♏31'04		evening set	253 Apr 24 j 20:53	16°♐43'44	
min. Earth dist.	252 May 23 j 02:22	3°♏03'11	0.55423 AU	desc. node	253 Apr 28 j 20:03	15°♐30'57	
inferior conj	252 May 24 j 11:09	2°♏16'14	-3°19'05	inferior conj	253 May 04 j 05:44	12°♐44'11	-1°32'31
minimum elong	252 May 24 j 03:47	2°♏26'48	3°17'05	minimum elong	253 May 04 j 01:24	12°♐50'17	1°30'59
	252 May 28 j 16:18	30°♑		min. Earth dist.	253 May 04 j 15:06	12°♐30'58	0.54975 AU
morning rise	252 Jun 02 j 05:28	28°♑23'00		morning rise	253 May 13 j 06:09	8°♑42'49	
direct	252 Jun 05 j 00:38	28°♑04'46		direct	253 May 16 j 10:46	8°♑20'43	
	252 Jun 11 j 19:51	0°♏		morning max el	253 May 29 j 04:07	14°♑23'57	22°21'55
morning max el	252 Jun 16 j 04:04	3°♏15'08	20°49'41		253 Jun 10 j 01:02	0°♏	
asc. node	252 Jun 29 j 11:00	22°♏06'27		asc. node	253 Jun 16 j 08:02	11°♏33'05	
	252 Jul 03 j 12:51	0°♏		morning set	253 Jun 19 j 21:34	18°♏48'57	
morning set	252 Jul 05 j 11:27	3°♏56'50			253 Jun 25 j 04:13	0°♏	
superior conj	252 Jul 12 j 23:49	19°♏30'43	1°42'49	superior conj	253 Jun 27 j 02:27	4°♏05'12	1°32'25
minimum elong	252 Jul 12 j 22:20	19°♏23'09	1°42'45	minimum elong	253 Jun 27 j 00:10	3°♏53'12	1°32'11
max. Earth dist.	252 Jul 17 j 13:12	28°♏40'16	1.35790 AU	max. Earth dist.	253 Jun 30 j 06:12	10°♏40'54	1.34341 AU
	252 Jul 18 j 05:30	0°♎		evening rise	253 Jul 05 j 00:34	20°♏15'13	
evening rise	252 Jul 21 j 16:37	6°♎37'03			253 Jul 10 j 04:44	0°♎	
	252 Aug 04 j 07:46	0°♎		desc. node	253 Jul 25 j 19:21	25°♎13'59	
desc. node	252 Aug 07 j 22:20	5°♎30'23			253 Jul 29 j 06:45	0°♎	
evening max el	252 Aug 26 j 07:25	28°♎40'50	26°21'52	evening max el	253 Aug 08 j 19:14	12°♎09'34	27°06'47
	252 Aug 27 j 17:14	0°♍		retrograde	253 Aug 22 j 02:23	19°♎28'31	
retrograde	252 Sep 08 j 01:08	5°♍51'55		evening set	253 Aug 29 j 00:33	16°♎42'50	
evening set	252 Sep 14 j 11:56	3°♍11'14		min. Earth dist.	253 Sep 01 j 20:41	12°♎58'16	0.65135 AU
	252 Sep 17 j 15:20	30°♑		inferior conj	253 Sep 03 j 22:06	10°♎38'52	-2°41'38
min. Earth dist.	252 Sep 18 j 15:03	28°♑49'46	0.66294 AU	minimum elong	253 Sep 04 j 02:09	10°♎27'28	2°40'13
inferior conj	252 Sep 20 j 03:49	26°♑57'20	-1°46'13	morning rise	253 Sep 10 j 04:28	5°♎04'20	
minimum elong	252 Sep 20 j 06:32	26°♑49'00	1°45'08	asc. node	253 Sep 12 j 07:14	4°♎25'55	

direct	253 Sep 12 j 22:25	4°♎23'45		inferior conj	254 Aug 18 j 07:41	24°♊08'52	-3°33'03
morning max el	253 Sep 19 j 11:08	7°♎55'11	18°10'23	minimum elong	254 Aug 18 j 12:30	23°♊56'33	3°31'43
	253 Oct 04 j 11:57	0°♏		morning rise	254 Aug 24 j 23:53	18°♊51'03	
morning set	253 Oct 07 j 20:03	5°♏31'40		direct	254 Aug 27 j 13:14	18°♊19'09	
desc. node	253 Oct 21 j 18:38	28°♏10'48		asc. node	254 Aug 30 j 04:16	18°♊53'21	
				morning max el	254 Sep 03 j 02:57	21°♊44'53	17°54'12
superior conj	253 Oct 22 j 04:40	28°♏50'40	-0°02'47		254 Sep 09 j 10:42	0°♎	
minimum elong	253 Oct 22 j 04:19	28°♏49'14	0°02'43	morning set	254 Sep 19 j 20:36	17°♎32'14	
behind sun begin	253 Oct 21 j 17:32	28°♏06'23			254 Sep 27 j 02:41	0°♏	
behind sun end	253 Oct 22 j 15:05	29°♏32'03					
	253 Oct 22 j 22:08	0°♎		superior conj	254 Oct 02 j 04:20	8°♏27'59	0°42'16
max. Earth dist.	253 Oct 25 j 11:28	4°♎02'27	1.44880 AU	minimum elong	254 Oct 02 j 08:30	8°♏45'09	0°41'43
evening rise	253 Nov 07 j 16:12	24°♎39'20		max. Earth dist.	254 Oct 08 j 04:12	18°♏11'59	1.44039 AU
	253 Nov 11 j 02:54	0°♎		desc. node	254 Oct 08 j 15:40	18°♏57'50	
greatest brilliancy	253 Nov 20 j 07:18	14°♎05'06	-0.7m		254 Oct 15 j 15:55	0°♎	
	253 Dec 02 j 01:02	0°♏		evening rise	254 Oct 18 j 00:16	3°♎37'59	
evening max el	253 Dec 02 j 12:35	0°♏30'24	19°40'48		254 Nov 04 j 15:28	0°♎	
asc. node	253 Dec 09 j 06:32	4°♏45'46		evening max el	254 Nov 15 j 14:21	13°♎59'04	20°43'01
retrograde	253 Dec 09 j 21:51	4°♏48'04		retrograde	254 Nov 23 j 19:27	18°♎50'25	
evening set	253 Dec 13 j 10:09	3°♏35'49		asc. node	254 Nov 26 j 03:33	18°♎19'28	
	253 Dec 17 j 01:55	30°♎		evening set	254 Nov 27 j 17:04	17°♎23'13	
inferior conj	253 Dec 18 j 22:23	27°♎37'38	2°53'00	inferior conj	254 Dec 03 j 02:34	11°♎13'48	2°13'24
minimum elong	253 Dec 18 j 19:37	27°♎46'46	2°52'14	minimum elong	254 Dec 03 j 00:01	11°♎22'30	2°12'32
min. Earth dist.	253 Dec 20 j 00:14	26°♎12'40	0.66521 AU	min. Earth dist.	254 Dec 03 j 15:53	10°♎28'23	0.67256 AU
morning rise	253 Dec 24 j 04:51	21°♎25'07		morning rise	254 Dec 08 j 06:47	5°♎00'18	
direct	253 Dec 30 j 06:59	18°♎42'56		direct	254 Dec 13 j 18:16	2°♎35'49	
morning max el	254 Jan 11 j 11:54	25°♎58'07	25°38'16	morning max el	254 Dec 24 j 20:09	9°♎12'23	24°14'19
	254 Jan 15 j 05:12	0°♏		desc. node	255 Jan 04 j 14:55	22°♎09'35	
desc. node	254 Jan 17 j 17:54	3°♏00'56			255 Jan 10 j 05:54	0°♏	
	254 Feb 05 j 12:48	0°♏			255 Jan 29 j 04:51	0°♏	
morning set	254 Feb 16 j 18:21	19°♏17'15		morning set	255 Jan 29 j 16:02	0°♏48'27	
max. Earth dist.	254 Feb 20 j 13:18	26°♏20'57	1.36031 AU	max. Earth dist.	255 Feb 02 j 09:29	7°♏23'31	1.37997 AU
	254 Feb 22 j 10:56	0°♎					
				superior conj	255 Feb 09 j 10:25	20°♏28'25	-1°44'48
superior conj	254 Feb 26 j 04:57	7°♎23'46	-1°23'36	minimum elong	255 Feb 09 j 14:14	20°♏46'43	1°44'27
minimum elong	254 Feb 26 j 08:41	7°♎42'29	1°23'04		255 Feb 14 j 07:49	0°♎	
evening rise	254 Mar 06 j 05:47	23°♎45'29		evening rise	255 Feb 18 j 05:01	7°♎40'43	
asc. node	254 Mar 07 j 05:51	25°♎47'16		asc. node	255 Feb 22 j 02:53	15°♎16'57	
	254 Mar 09 j 08:35	0°♎			255 Mar 02 j 22:12	0°♎	
evening max el	254 Mar 24 j 00:26	22°♎32'26	19°59'11	evening max el	255 Mar 06 j 20:12	4°♎33'31	19°02'26
retrograde	254 Apr 03 j 05:07	27°♎26'11		retrograde	255 Mar 15 j 10:19	8°♎42'04	
evening set	254 Apr 05 j 07:15	27°♎14'45		evening set	255 Mar 17 j 16:09	8°♎26'19	
inferior conj	254 Apr 14 j 04:06	23°♎14'50	0°26'22	inferior conj	255 Mar 25 j 18:19	4°♎12'25	2°05'37
minimum elong	254 Apr 14 j 05:16	23°♎13'04	0°25'56	minimum elong	255 Mar 25 j 22:29	4°♎05'10	2°04'24
desc. node	254 Apr 15 j 17:05	22°♎18'39		min. Earth dist.	255 Mar 28 j 20:56	2°♎03'21	0.56856 AU
min. Earth dist.	254 Apr 16 j 05:16	22°♎00'24	0.55491 AU		255 Apr 01 j 07:26	30°♎	
morning rise	254 Apr 23 j 01:09	18°♎47'09		desc. node	255 Apr 02 j 14:08	29°♎23'51	
direct	254 Apr 27 j 01:34	18°♎11'35		morning rise	255 Apr 03 j 01:49	29°♎11'48	
morning max el	254 May 10 j 20:43	25°♎02'13	24°02'42	direct	255 Apr 08 j 05:01	28°♎09'35	
	254 May 15 j 11:07	0°♎			255 Apr 15 j 02:40	0°♎	
	254 Jun 02 j 13:42	0°♎		morning max el	255 Apr 22 j 11:20	5°♎31'52	25°38'52
asc. node	254 Jun 03 j 05:05	1°♎19'24			255 May 10 j 05:41	0°♎	
morning set	254 Jun 04 j 09:21	3°♎47'01		morning set	255 May 19 j 21:05	18°♎44'28	
				asc. node	255 May 21 j 02:09	21°♎18'36	
superior conj	254 Jun 11 j 10:12	18°♎55'17	1°17'03		255 May 25 j 02:21	0°♎	
minimum elong	254 Jun 11 j 07:43	18°♎41'53	1°16'41				
max. Earth dist.	254 Jun 13 j 08:26	23°♎03'47	1.33292 AU	superior conj	255 May 26 j 20:51	3°♎52'39	0°57'43
	254 Jun 16 j 15:27	0°♏		minimum elong	255 May 26 j 18:39	3°♎40'39	0°57'18
evening rise	254 Jun 18 j 19:45	4°♏27'23		max. Earth dist.	255 May 27 j 17:36	5°♎46'06	1.32627 AU
	254 Jul 02 j 21:25	0°♏		evening rise	255 Jun 02 j 22:38	19°♎01'50	
desc. node	254 Jul 12 j 16:23	14°♏21'32			255 Jun 08 j 11:10	0°♏	
evening max el	254 Jul 22 j 06:00	25°♏19'17	27°25'22		255 Jun 27 j 09:33	0°♏	
	254 Jul 28 j 02:11	0°♎		desc. node	255 Jun 29 j 13:25	2°♏37'29	
retrograde	254 Aug 04 j 21:45	2°♎38'48		evening max el	255 Jul 04 j 13:23	7°♏56'38	27°12'30
evening set	254 Aug 12 j 02:12	29°♏59'19		retrograde	255 Jul 18 j 10:17	15°♏13'13	
	254 Aug 12 j 01:50	30°♏		evening set	255 Jul 25 j 12:54	12°♏53'16	
min. Earth dist.	254 Aug 15 j 17:16	26°♏48'03	0.63615 AU	min. Earth dist.	255 Jul 29 j 03:31	10°♏06'29	0.61777 AU

inferior conj	255 Aug 01 j 05:25	7°Ω19'34	-4°15'54	minimum elong	256 Jul 13 j 13:56	19°Ω57'16	4°42'40
minimum elong	255 Aug 01 j 09:52	7°Ω09'28	4°15'04	morning rise	256 Jul 21 j 01:51	15°Ω26'10	
morning rise	255 Aug 08 j 08:19	2°Ω21'40		direct	256 Jul 23 j 13:30	15°Ω03'56	
direct	255 Aug 10 j 19:41	1°Ω55'34		morning max el	256 Jul 31 j 03:55	18°Ω44'13	18°18'16
asc. node	255 Aug 17 j 01:20	4°Ω45'57		asc. node	256 Aug 02 j 22:25	21°Ω48'53	
morning max el	255 Aug 17 j 17:32	5°Ω23'50	17°56'28		256 Aug 08 j 09:56	0°Ω	
	255 Sep 02 j 10:27	0°♐		morning set	256 Aug 16 j 03:42	14°Ω08'56	
morning set	255 Sep 02 j 17:01	0°♐29'54			256 Aug 24 j 13:47	0°♐	
superior conj	255 Sep 13 j 07:22	19°♐26'16	1°15'47	superior conj	256 Aug 25 j 11:10	1°♐38'00	1°36'28
minimum elong	255 Sep 13 j 12:10	19°♐47'02	1°15'15	minimum elong	256 Aug 25 j 14:20	1°♐52'29	1°36'14
	255 Sep 19 j 12:57	0°♑		max. Earth dist.	256 Sep 02 j 00:27	14°♐59'41	1.40736 AU
max. Earth dist.	255 Sep 20 j 17:03	1°♑55'58	1.42594 AU	evening rise	256 Sep 06 j 17:32	22°♐53'40	
desc. node	255 Sep 25 j 12:43	9°♑44'06		desc. node	256 Sep 11 j 09:45	0°♑25'43	
evening rise	255 Sep 27 j 11:36	12°♑49'48			256 Sep 11 j 03:15	0°♑	
	255 Oct 08 j 17:33	0°♒			256 Oct 01 j 17:43	0°♒	
evening max el	255 Oct 29 j 10:29	27°♒29'02	21°56'05	evening max el	256 Oct 11 j 01:36	11°♒00'08	23°15'22
	255 Nov 01 j 03:50	0°♓		retrograde	256 Oct 21 j 09:39	17°♒07'22	
retrograde	255 Nov 07 j 15:53	2°♓58'09		evening set	256 Oct 26 j 07:42	15°♒05'28	
evening set	255 Nov 12 j 00:49	1°♓14'09		asc. node	256 Oct 29 j 21:38	11°♒08'23	
asc. node	255 Nov 13 j 00:35	0°♓21'13		inferior conj	256 Oct 31 j 16:22	8°♒43'49	0°36'39
	255 Nov 13 j 09:02	30°♒♒		minimum elong	256 Oct 31 j 15:30	8°♒46'45	0°36'17
inferior conj	255 Nov 17 j 09:11	24°♒56'47	1°27'27	min. Earth dist.	256 Oct 31 j 07:50	9°♒13'06	0.67677 AU
minimum elong	255 Nov 17 j 07:18	25°♒03'17	1°26'42	morning rise	256 Nov 05 j 23:15	2°♒34'47	
min. Earth dist.	255 Nov 17 j 11:13	24°♒49'46	0.67634 AU	direct	256 Nov 10 j 05:03	0°♒55'01	
morning rise	255 Nov 22 j 13:39	18°♒44'27		morning max el	256 Nov 18 j 21:18	5°♒59'41	21°22'52
direct	255 Nov 27 j 09:57	16°♒41'56			256 Dec 07 j 01:24	0°♓	
morning max el	255 Dec 07 j 06:07	22°♒32'02	22°46'23	desc. node	256 Dec 08 j 09:00	1°♓57'02	
	255 Dec 13 j 17:44	0°♓		morning set	256 Dec 20 j 00:44	19°♓48'37	
desc. node	255 Dec 22 j 11:58	11°♓51'37			256 Dec 26 j 09:01	0°♔	
	256 Jan 03 j 14:37	0°♔		max. Earth dist.	256 Dec 27 j 06:53	1°♔29'40	1.42143 AU
morning set	256 Jan 10 j 10:44	10°♔58'56		superior conj	257 Jan 03 j 16:00	13°♔55'17	-2°01'46
max. Earth dist.	256 Jan 15 j 05:17	18°♔59'41	1.40135 AU	minimum elong	257 Jan 03 j 14:41	13°♔49'36	2°01'45
	256 Jan 21 j 11:48	0°♕			257 Jan 12 j 17:48	0°♕	
superior conj	256 Jan 22 j 23:55	2°♕43'29	-1°58'54	evening rise	257 Jan 14 j 19:52	3°♕47'06	
minimum elong	256 Jan 23 j 02:16	2°♕54'09	1°58'49	asc. node	257 Jan 25 j 20:59	22°♕56'34	
evening rise	256 Feb 01 j 18:56	21°♕04'07			257 Jan 31 j 08:39	0°♖	
	256 Feb 06 j 13:13	0°♖		evening max el	257 Jan 31 j 10:18	0°♖04'06	18°08'48
asc. node	256 Feb 08 j 23:57	4°♖22'41		retrograde	257 Feb 07 j 04:09	3°♖30'24	
evening max el	256 Feb 18 j 00:31	17°♖06'54	18°25'36	evening set	257 Feb 09 j 20:02	2°♖58'38	
retrograde	256 Feb 25 j 10:37	20°♖46'20			257 Feb 14 j 09:23	30°♖♕	
evening set	256 Feb 27 j 21:47	20°♖23'19		inferior conj	257 Feb 16 j 12:35	28°♕03'23	3°42'32
inferior conj	256 Mar 06 j 05:31	15°♖49'12	3°10'28	minimum elong	257 Feb 16 j 14:12	27°♕59'35	3°42'24
minimum elong	256 Mar 06 j 09:13	15°♖41'39	3°09'46	min. Earth dist.	257 Feb 19 j 17:29	25°♕03'02	0.60878 AU
min. Earth dist.	256 Mar 09 j 15:57	13°♖02'33	0.58771 AU	morning rise	257 Feb 23 j 06:40	22°♕15'09	
morning rise	256 Mar 13 j 18:07	10°♖20'15		direct	257 Mar 02 j 01:28	20°♕00'30	
desc. node	256 Mar 19 j 11:10	8°♖42'15		desc. node	257 Mar 06 j 08:12	20°♕49'51	
direct	256 Mar 19 j 21:34	8°♖41'46		morning max el	257 Mar 16 j 06:35	27°♕50'32	27°39'02
morning max el	256 Apr 03 j 05:45	16°♖21'52	26°54'59		257 Mar 18 j 08:40	0°♖	
	256 Apr 14 j 09:35	0°♗			257 Apr 08 j 01:52	0°♗	
	256 May 01 j 13:24	0°♘		morning set	257 Apr 17 j 13:41	18°♗14'36	
morning set	256 May 03 j 07:08	3°♘35'45			257 Apr 23 j 02:33	0°♘	
asc. node	256 May 06 j 23:14	11°♘25'50		asc. node	257 Apr 23 j 20:18	1°♘36'40	
				max. Earth dist.	257 Apr 23 j 18:12	1°♘25'14	1.32391 AU
superior conj	256 May 10 j 08:36	18°♘51'04	0°35'13	superior conj	257 Apr 24 j 19:47	3°♘44'57	0°10'21
minimum elong	256 May 10 j 07:06	18°♘42'51	0°34'55	minimum elong	257 Apr 24 j 19:18	3°♘42'21	0°10'16
max. Earth dist.	256 May 10 j 06:11	18°♘37'44	1.32327 AU	behind sun begin	257 Apr 24 j 15:26	3°♘21'08	
	256 May 15 j 11:19	0°♙		behind sun end	257 Apr 24 j 23:11	4°♘03'35	
evening rise	256 May 17 j 06:35	3°♙49'45		evening rise	257 May 01 j 17:26	18°♘43'41	
	256 May 31 j 07:17	0°♚			257 May 07 j 06:37	0°♙	
desc. node	256 Jun 15 j 10:27	19°♚40'19			257 May 27 j 08:57	0°♚	
evening max el	256 Jun 15 j 14:39	19°♚50'23	26°26'37	evening max el	257 May 28 j 08:55	0°♚59'04	25°12'07
retrograde	256 Jun 29 j 14:37	27°♚03'58		desc. node	257 Jun 02 j 07:28	5°♚00'35	
evening set	256 Jul 06 j 04:03	25°♚16'05		retrograde	257 Jun 11 j 09:21	8°♚07'37	
min. Earth dist.	256 Jul 10 j 03:44	22°♚38'57	0.59738 AU	evening set	257 Jun 16 j 20:17	6°♚58'43	
inferior conj	256 Jul 13 j 11:46	20°♚01'34	-4°42'49				

min. Earth dist.	257 Jun 21 j 20:37	4°☿12'54	0.57722 AU	evening set	258 May 27 j 15:54	17°♄53'42	
inferior conj	257 Jun 24 j 23:20	2°☿05'30	-4°42'54	min. Earth dist.	258 Jun 03 j 09:59	14°♄44'18	0.56066 AU
minimum elong	257 Jun 24 j 21:10	2°☿09'14	4°42'46	inferior conj	258 Jun 05 j 14:40	13°♄24'55	-4°03'08
	257 Jun 28 j 04:28	30°♄II		minimum elong	258 Jun 05 j 08:08	13°♄34'48	4°01'50
morning rise	257 Jul 03 j 00:46	27°♄52'22		morning rise	258 Jun 14 j 03:11	9°♄27'41	
direct	257 Jul 05 j 14:10	27°♄32'50		direct	258 Jun 16 j 19:20	9°♄09'42	
	257 Jul 12 j 08:22	0°☿		morning max el	258 Jun 27 j 00:17	13°♄53'05	20°04'09
morning max el	257 Jul 14 j 07:06	1°☿37'30	19°00'41	asc. node	258 Jul 07 j 16:32	28°♄27'49	
asc. node	257 Jul 20 j 19:30	9°☿47'26			258 Jul 08 j 13:18	0°☿	
morning set	257 Jul 31 j 00:32	28°☿18'41		morning set	258 Jul 15 j 04:20	12°☿49'41	
	257 Jul 31 j 21:04	0°♄					
superior conj	257 Aug 08 j 10:09	14°♄47'58	1°45'49	superior conj	258 Jul 22 j 22:57	28°☿39'37	1°46'04
minimum elong	257 Aug 08 j 11:12	14°♄52'59	1°45'48	minimum elong	258 Jul 22 j 22:13	28°☿35'57	1°46'03
max. Earth dist.	257 Aug 15 j 03:45	27°♄19'58	1.38713 AU		258 Jul 23 j 15:02	0°♄	
	257 Aug 16 j 15:36	0°♄		max. Earth dist.	258 Jul 28 j 08:13	9°♄12'10	1.36779 AU
evening rise	257 Aug 19 j 00:14	4°♄07'48		evening rise	258 Aug 01 j 05:46	16°♄27'40	
desc. node	257 Aug 29 j 06:47	20°♄59'06			258 Aug 09 j 00:48	0°♄	
	257 Sep 04 j 06:01	0°♄		desc. node	258 Aug 16 j 03:49	11°♄18'34	
evening max el	257 Sep 23 j 13:48	24°♄34'38	24°34'39		258 Aug 29 j 16:24	0°♄	
	257 Sep 30 j 12:08	0°♄		evening max el	258 Sep 06 j 01:21	8°♄12'03	25°46'48
retrograde	257 Oct 04 j 23:45	1°♄14'49		retrograde	258 Sep 18 j 09:18	15°♄15'14	
	257 Oct 09 j 01:24	30°♄♄		evening set	258 Sep 24 j 12:02	12°♄41'07	
evening set	257 Oct 10 j 12:03	28°♄55'28		min. Earth dist.	258 Sep 28 j 19:30	7°♄58'04	0.66794 AU
min. Earth dist.	257 Oct 15 j 03:24	23°♄36'47	0.67401 AU	inferior conj	258 Sep 30 j 01:26	6°♄22'55	-1°13'40
inferior conj	257 Oct 15 j 22:23	22°♄33'25	-0°17'32	minimum elong	258 Sep 30 j 03:19	6°♄16'57	1°12'54
minimum elong	257 Oct 15 j 22:48	22°♄31'59	0°17'22	asc. node	258 Oct 03 j 15:43	2°♄11'37	
asc. node	257 Oct 16 j 18:41	21°♄26'04		morning rise	258 Oct 05 j 18:51	0°♄28'08	
morning rise	257 Oct 21 j 09:38	16°♄30'08			258 Oct 06 j 15:33	30°♄♄	
direct	257 Oct 25 j 02:34	15°♄11'15		direct	258 Oct 09 j 01:01	29°♄26'56	
morning max el	257 Nov 01 j 19:54	19°♄37'44	20°09'45		258 Oct 11 j 12:23	0°♄	
	257 Nov 10 j 04:40	0°♄		morning max el	258 Oct 16 j 01:53	3°♄24'43	19°10'42
desc. node	257 Nov 25 j 06:02	22°♄19'18			258 Nov 03 j 20:50	0°♄	
morning set	257 Nov 28 j 21:38	27°♄56'26		morning set	258 Nov 08 j 01:59	6°♄34'14	
	257 Nov 30 j 05:33	0°♄		desc. node	258 Nov 12 j 03:04	12°♄53'26	
max. Earth dist.	257 Dec 09 j 15:44	14°♄50'26	1.43749 AU	max. Earth dist.	258 Nov 22 j 06:43	28°♄48'56	1.44756 AU
					258 Nov 23 j 00:44	0°♄	
superior conj	257 Dec 15 j 06:00	23°♄54'05	-1°48'44	superior conj	258 Nov 24 j 18:51	2°♄46'35	-1°17'11
minimum elong	257 Dec 14 j 23:44	23°♄28'26	1°48'18	minimum elong	258 Nov 24 j 10:33	2°♄13'41	1°16'18
	257 Dec 18 j 22:28	0°♄		evening rise	258 Dec 09 j 13:49	26°♄39'09	
evening rise	257 Dec 28 j 03:34	15°♄41'12			258 Dec 11 j 14:36	0°♄	
	258 Jan 05 j 12:06	0°♄		evening max el	258 Dec 29 j 10:45	26°♄40'13	18°32'42
asc. node	258 Jan 12 j 18:01	10°♄48'50		asc. node	258 Dec 30 j 15:01	27°♄47'26	
evening max el	258 Jan 14 j 22:37	13°♄17'19	18°11'27		259 Jan 03 j 04:28	0°♄	
retrograde	258 Jan 21 j 10:23	16°♄44'05		retrograde	259 Jan 05 j 01:01	0°♄18'54	
evening set	258 Jan 24 j 06:48	16°♄02'34			259 Jan 06 j 21:05	30°♄♄	
inferior conj	258 Jan 30 j 11:47	10°♄47'10	3°49'08	evening set	259 Jan 08 j 02:35	29°♄26'32	
minimum elong	258 Jan 30 j 11:17	10°♄48'29	3°49'06	inferior conj	259 Jan 13 j 23:07	23°♄52'40	3°37'16
min. Earth dist.	258 Feb 02 j 03:53	7°♄56'33	0.62885 AU	minimum elong	259 Jan 13 j 21:11	23°♄58'24	3°37'01
morning rise	258 Feb 05 j 14:50	4°♄47'24		min. Earth dist.	259 Jan 15 j 23:53	21°♄29'01	0.64602 AU
direct	258 Feb 12 j 14:38	2°♄06'36		morning rise	259 Jan 19 j 15:18	17°♄46'05	
desc. node	258 Feb 21 j 05:14	5°♄25'38		direct	259 Jan 26 j 11:16	14°♄54'08	
morning max el	258 Feb 26 j 12:49	9°♄59'52	27°45'58	desc. node	259 Feb 08 j 02:15	21°♄53'22	
	258 Mar 14 j 04:08	0°♄		morning max el	259 Feb 08 j 21:55	22°♄41'40	27°17'44
	258 Mar 31 j 07:49	0°♄			259 Feb 15 j 09:26	0°♄	
morning set	258 Apr 01 j 14:27	2°♄32'59			259 Mar 07 j 09:41	0°♄	
max. Earth dist.	258 Apr 07 j 01:38	13°♄54'14	1.32849 AU	morning set	259 Mar 16 j 06:41	16°♄21'55	
				max. Earth dist.	259 Mar 21 j 00:39	25°♄53'24	1.33737 AU
superior conj	258 Apr 09 j 04:38	18°♄27'54	-0°16'07		259 Mar 23 j 00:10	0°♄	
minimum elong	258 Apr 09 j 05:24	18°♄32'03	0°15'56	superior conj	259 Mar 24 j 09:16	2°♄53'59	-0°43'08
asc. node	258 Apr 10 j 17:19	21°♄46'29		minimum elong	259 Mar 24 j 11:22	3°♄05'01	0°42'43
	258 Apr 14 j 12:35	0°♄		asc. node	259 Mar 28 j 14:21	11°♄51'29	
evening rise	258 Apr 16 j 05:14	3°♄36'31		evening rise	259 Mar 31 j 16:12	18°♄22'14	
	258 Apr 30 j 13:40	0°♄			259 Apr 06 j 11:06	0°♄	
evening max el	258 May 09 j 23:19	11°♄37'11	23°40'04	evening max el	259 Apr 21 j 16:36	22°♄13'58	22°05'16
desc. node	258 May 20 j 04:30	18°♄01'13		retrograde	259 May 04 j 10:15	28°♄28'50	
retrograde	258 May 23 j 16:06	18°♄28'51					

evening set	259 May 07 j 04:09	28°♄12'08		retrograde	260 Apr 13 j 23:06	8°♄39'17	
desc. node	259 May 07 j 01:30	28°♄13'25		evening set	260 Apr 16 j 02:58	8°♄27'59	
min. Earth dist.	259 May 15 j 22:34	24°♄27'20	0.55118 AU	desc. node	260 Apr 22 j 22:30	5°♄51'15	
inferior conj	259 May 16 j 13:49	24°♄05'54	-2°37'36	inferior conj	260 Apr 25 j 08:05	4°♄30'23	-0°41'25
minimum elong	259 May 16 j 07:06	24°♄15'21	2°35'30	minimum elong	260 Apr 25 j 06:07	4°♄33'12	0°40'42
morning rise	259 May 25 j 11:29	20°♄11'13		min. Earth dist.	260 Apr 26 j 11:33	3°♄50'57	0.55086 AU
direct	259 May 28 j 09:45	19°♄52'01		morning rise	260 May 04 j 08:28	0°♄19'55	
morning max el	259 Jun 09 j 06:09	25°♄25'10	21°27'10		260 May 06 j 03:00	30°♄	
	259 Jun 13 j 11:39	0°♄		direct	260 May 07 j 20:33	29°♄53'26	
asc. node	259 Jun 24 j 13:35	17°♄40'00			260 May 09 j 13:43	0°♄	
morning set	259 Jun 29 j 12:43	27°♄35'36		morning max el	260 May 21 j 02:14	6°♄17'40	23°04'29
	259 Jun 30 j 16:30	0°♄			260 Jun 06 j 17:18	0°♄	
				asc. node	260 Jun 10 j 10:39	7°♄15'47	
superior conj	259 Jul 06 j 21:27	13°♄00'54	1°39'05	morning set	260 Jun 12 j 23:45	12°♄30'48	
minimum elong	259 Jul 06 j 19:33	12°♄51'05	1°38'57				
max. Earth dist.	259 Jul 10 j 19:53	21°♄04'02	1.35129 AU	superior conj	260 Jun 20 j 02:31	27°♄42'32	1°26'26
evening rise	259 Jul 15 j 05:28	29°♄41'00		minimum elong	260 Jun 20 j 00:06	27°♄29'34	1°26'08
	259 Jul 15 j 09:28	0°♄			260 Jun 21 j 04:21	0°♄	
	259 Aug 02 j 03:47	0°♄		max. Earth dist.	260 Jun 22 j 17:15	3°♄14'41	1.33848 AU
desc. node	259 Aug 03 j 00:51	1°♄17'30		evening rise	260 Jun 27 j 18:40	13°♄34'46	
evening max el	259 Aug 19 j 13:22	21°♄47'14	26°43'53		260 Jul 06 j 14:21	0°♄	
retrograde	259 Sep 01 j 13:34	29°♄02'21		desc. node	260 Jul 19 j 21:52	20°♄47'11	
evening set	259 Sep 08 j 05:31	26°♄18'48			260 Jul 27 j 03:56	0°♄	
min. Earth dist.	259 Sep 12 j 05:40	22°♄12'53	0.65842 AU	evening max el	260 Aug 01 j 01:10	5°♄09'58	27°18'21
inferior conj	259 Sep 13 j 23:35	20°♄08'40	-2°10'01	retrograde	260 Aug 14 j 12:08	12°♄28'57	
minimum elong	259 Sep 14 j 02:54	19°♄58'50	2°08'45	evening set	260 Aug 21 j 13:53	9°♄44'31	
morning rise	259 Sep 20 j 00:46	14°♄25'36		min. Earth dist.	260 Aug 25 j 07:36	6°♄14'53	0.64530 AU
asc. node	259 Sep 20 j 12:46	14°♄10'51		inferior conj	260 Aug 27 j 14:31	3°♄46'13	-3°04'11
direct	259 Sep 22 j 22:33	13°♄38'25		minimum elong	260 Aug 27 j 18:59	3°♄34'07	3°02'44
morning max el	259 Sep 29 j 13:40	17°♄16'48	18°27'34		260 Aug 31 j 10:11	30°♄	
	259 Oct 09 j 00:10	0°♄		morning rise	260 Sep 03 j 00:55	28°♄18'20	
morning set	259 Oct 19 j 08:00	16°♄31'11		direct	260 Sep 05 j 16:43	27°♄41'41	
	259 Oct 27 j 17:52	0°♄		asc. node	260 Sep 06 j 09:49	27°♄44'20	
desc. node	259 Oct 30 j 00:06	3°♄35'10			260 Sep 10 j 22:47	0°♄	
				morning max el	260 Sep 12 j 04:51	1°♄09'24	18°01'24
superior conj	259 Nov 03 j 19:27	11°♄10'24	-0°31'18	morning set	260 Sep 29 j 18:26	27°♄51'28	
minimum elong	259 Nov 03 j 15:21	10°♄54'14	0°30'45		260 Oct 01 j 00:55	0°♄	
max. Earth dist.	259 Nov 05 j 01:20	13°♄07'57	1.45052 AU				
	259 Nov 15 j 19:06	0°♄		superior conj	260 Oct 13 j 05:49	20°♄07'42	0°17'27
evening rise	259 Nov 20 j 00:19	6°♄38'35		minimum elong	260 Oct 13 j 07:52	20°♄15'54	0°17'10
greatest brilliancy	259 Nov 29 j 20:38	22°♄07'57	-0.8m	desc. node	260 Oct 15 j 21:09	24°♄21'24	
	259 Dec 05 j 00:50	0°♄		max. Earth dist.	260 Oct 17 j 20:15	27°♄28'36	1.44605 AU
evening max el	259 Dec 12 j 20:15	10°♄07'10	19°11'20		260 Oct 19 j 10:34	0°♄	
asc. node	259 Dec 17 j 12:03	13°♄37'24		evening rise	260 Oct 29 j 14:48	15°♄51'32	
retrograde	259 Dec 19 j 20:29	14°♄07'49			260 Nov 07 j 20:38	0°♄	
evening set	259 Dec 23 j 04:29	13°♄03'09		greatest brilliancy	260 Nov 12 j 15:34	7°♄10'29	-0.6m
inferior conj	259 Dec 28 j 19:08	7°♄13'01	3°12'05	evening max el	260 Nov 25 j 01:13	23°♄35'47	20°05'35
minimum elong	259 Dec 28 j 16:28	7°♄21'29	3°11'30	retrograde	260 Dec 02 j 18:05	28°♄06'49	
min. Earth dist.	259 Dec 30 j 04:52	5°♄25'44	0.65940 AU	asc. node	260 Dec 03 j 09:04	28°♄04'36	
morning rise	260 Jan 03 j 04:12	1°♄02'18		evening set	260 Dec 06 j 10:11	26°♄48'13	
	260 Jan 04 j 11:18	30°♄		inferior conj	260 Dec 11 j 21:03	20°♄44'41	2°37'05
direct	260 Jan 09 j 14:00	28°♄13'28		minimum elong	260 Dec 11 j 18:18	20°♄53'52	2°36'15
	260 Jan 15 j 06:34	0°♄		min. Earth dist.	260 Dec 12 j 17:16	19°♄36'56	0.66885 AU
morning max el	260 Jan 22 j 07:25	5°♄43'32	26°20'39	morning rise	260 Dec 17 j 02:15	14°♄31'39	
desc. node	260 Jan 25 j 23:17	9°♄40'41		direct	260 Dec 22 j 22:15	11°♄56'33	
	260 Feb 10 j 00:34	0°♄		morning max el	261 Jan 03 j 16:13	18°♄56'08	25°03'40
morning set	260 Feb 27 j 10:34	29°♄29'04		desc. node	261 Jan 11 j 20:20	28°♄24'46	
	260 Feb 27 j 17:09	0°♄			261 Jan 13 j 01:42	0°♄	
max. Earth dist.	260 Mar 02 j 12:27	7°♄18'37	1.35076 AU		261 Feb 02 j 02:46	0°♄	
				morning set	261 Feb 08 j 21:05	11°♄40'21	
superior conj	260 Mar 07 j 07:22	16°♄55'08	-1°09'28	max. Earth dist.	261 Feb 12 j 13:25	18°♄22'43	1.36842 AU
minimum elong	260 Mar 07 j 10:38	17°♄11'51	1°08'55				
	260 Mar 13 j 14:47	0°♄		superior conj	261 Feb 18 j 19:59	0°♄23'17	-1°33'14
asc. node	260 Mar 14 j 11:23	1°♄46'40		minimum elong	261 Feb 18 j 23:53	0°♄42'33	1°32'45
evening rise	260 Mar 15 j 00:23	2°♄53'45			261 Feb 18 j 15:14	0°♄	
	260 Mar 30 j 18:56	0°♄		evening rise	261 Feb 27 j 03:40	17°♄04'39	
evening max el	260 Apr 02 j 18:50	3°♄15'23	20°40'20	asc. node	261 Mar 01 j 08:25	21°♄27'22	

	261 Mar 05 j 20:34	0°♿		evening max el	262 Feb 27 j 08:11	27°♿10'48	18°44'16
evening max el	261 Mar 16 j 08:24	14°♿54'27	19°32'27		262 Mar 03 j 03:12	0°♿	
retrograde	261 Mar 25 j 19:45	19°♿27'40		retrograde	262 Mar 07 j 09:12	1°♿05'14	
evening set	261 Mar 27 j 22:52	19°♿14'52		evening set	262 Mar 09 j 17:05	0°♿46'48	
inferior conj	261 Apr 05 j 12:02	15°♿09'44	1°12'18		262 Mar 11 j 20:31	30°♿♿	
minimum elong	261 Apr 05 j 14:57	15°♿05'03	1°11'20	inferior conj	262 Mar 17 j 11:10	26°♿24'48	2°37'28
min. Earth dist.	261 Apr 08 j 01:58	13°♿30'53	0.55985 AU	minimum elong	262 Mar 17 j 15:28	26°♿16'47	2°36'23
desc. node	261 Apr 09 j 19:32	12°♿28'42		min. Earth dist.	262 Mar 20 j 19:08	23°♿56'51	0.57620 AU
morning rise	261 Apr 14 j 04:24	10°♿28'10		morning rise	262 Mar 25 j 10:51	21°♿10'39	
direct	261 Apr 18 j 15:41	9°♿43'09		desc. node	262 Mar 27 j 16:35	20°♿21'36	
morning max el	261 May 02 j 17:20	16°♿48'48	24°45'16	direct	262 Mar 31 j 00:57	19°♿53'41	
	261 May 13 j 10:08	0°♿		morning max el	262 Apr 14 j 09:20	27°♿25'45	26°14'32
morning set	261 May 28 j 11:43	27°♿29'16			262 Apr 16 j 21:08	0°♿	
asc. node	261 May 28 j 07:42	27°♿08'12			262 May 06 j 18:16	0°♿	
	261 May 29 j 16:08	0°♿		morning set	262 May 12 j 22:59	12°♿25'33	
				asc. node	262 May 15 j 04:46	17°♿11'52	
superior conj	261 Jun 04 j 11:43	12°♿36'17	1°09'16				
minimum elong	261 Jun 04 j 09:19	12°♿23'10	1°08'52	superior conj	262 May 19 j 23:06	27°♿35'37	0°48'30
max. Earth dist.	261 Jun 05 j 22:54	15°♿46'57	1.32958 AU	minimum elong	262 May 19 j 21:10	27°♿24'58	0°48'08
evening rise	261 Jun 11 j 17:27	27°♿57'06		max. Earth dist.	262 May 20 j 09:52	28°♿34'36	1.32449 AU
	261 Jun 12 j 17:41	0°♿			262 May 21 j 01:27	0°♿	
	261 Jun 29 j 20:05	0°♿		evening rise	262 May 26 j 22:49	12°♿38'42	
desc. node	261 Jul 06 j 18:54	9°♿34'51			262 Jun 04 j 20:54	0°♿	
evening max el	261 Jul 14 j 10:37	18°♿06'34	27°23'57	desc. node	262 Jun 23 j 15:54	27°♿22'58	
retrograde	261 Jul 28 j 04:38	25°♿25'13			262 Jun 26 j 04:43	0°♿	
evening set	261 Aug 04 j 09:42	22°♿51'58		evening max el	262 Jun 26 j 15:27	0°♿25'48	26°56'53
min. Earth dist.	261 Aug 07 j 23:38	19°♿52'59	0.62864 AU	retrograde	262 Jul 10 j 14:11	7°♿42'04	
inferior conj	261 Aug 10 j 19:27	17°♿08'32	-3°52'40	evening set	262 Jul 17 j 12:41	5°♿34'10	
minimum elong	261 Aug 11 j 00:18	16°♿56'44	3°51'30	min. Earth dist.	262 Jul 21 j 05:28	2°♿53'40	0.60919 AU
morning rise	261 Aug 17 j 16:09	11°♿59'09		inferior conj	262 Jul 24 j 11:04	0°♿08'03	-4°29'51
direct	261 Aug 20 j 04:23	11°♿30'01		minimum elong	262 Jul 24 j 14:49	29°♿59'59	4°29'20
asc. node	261 Aug 24 j 06:54	12°♿49'31			262 Jul 24 j 14:49	30°♿♿	
morning max el	261 Aug 26 j 20:34	14°♿55'30	17°52'58	morning rise	262 Jul 31 j 18:44	25°♿19'47	
	261 Sep 06 j 07:26	0°♿		direct	262 Aug 03 j 05:50	24°♿55'41	
morning set	261 Sep 12 j 04:07	10°♿17'55		morning max el	262 Aug 10 j 09:48	28°♿27'54	18°03'17
				asc. node	262 Aug 11 j 03:58	29°♿13'56	
superior conj	261 Sep 23 j 17:00	0°♿19'07	0°58'04		262 Aug 11 j 20:45	0°♿	
minimum elong	261 Sep 23 j 21:51	0°♿39'29	0°57'27	morning set	262 Aug 26 j 07:08	23°♿34'10	
	261 Sep 23 j 12:27	0°♿			262 Aug 29 j 18:25	0°♿	
max. Earth dist.	261 Sep 30 j 11:38	11°♿29'11	1.43482 AU				
desc. node	261 Oct 02 j 18:12	15°♿08'20		superior conj	262 Sep 05 j 07:09	11°♿50'02	1°26'03
evening rise	261 Oct 08 j 21:55	24°♿49'20		minimum elong	262 Sep 05 j 11:25	12°♿08'54	1°25'40
	261 Oct 12 j 06:35	0°♿		max. Earth dist.	262 Sep 12 j 21:29	24°♿54'16	1.41836 AU
	261 Nov 02 j 00:28	0°♿			262 Sep 15 j 23:35	0°♿	
evening max el	261 Nov 08 j 00:28	7°♿04'15	21°12'56	evening rise	262 Sep 18 j 15:39	4°♿18'44	
retrograde	261 Nov 16 j 15:33	12°♿11'53		desc. node	262 Sep 19 j 15:14	5°♿52'47	
asc. node	261 Nov 20 j 06:07	10°♿58'47			262 Oct 05 j 14:59	0°♿	
evening set	261 Nov 20 j 17:43	10°♿37'38		evening max el	262 Oct 21 j 18:11	20°♿33'47	22°29'27
inferior conj	261 Nov 26 j 02:32	4°♿24'07	1°54'38	retrograde	262 Oct 31 j 11:06	26°♿19'58	
minimum elong	261 Nov 26 j 00:13	4°♿32'05	1°53'46	evening set	262 Nov 05 j 01:17	24°♿28'37	
min. Earth dist.	261 Nov 26 j 10:51	3°♿55'26	0.67455 AU	asc. node	262 Nov 07 j 03:11	22°♿24'40	
	261 Nov 29 j 11:42	30°♿♿		inferior conj	262 Nov 10 j 09:36	18°♿08'50	1°06'26
morning rise	261 Dec 01 j 06:33	28°♿10'44		minimum elong	262 Nov 10 j 08:07	18°♿13'58	1°05'49
direct	261 Dec 06 j 11:26	25°♿55'30		min. Earth dist.	262 Nov 10 j 07:08	18°♿17'23	0.67685 AU
	261 Dec 14 j 16:31	0°♿		morning rise	262 Nov 15 j 14:48	11°♿57'21	
morning max el	261 Dec 17 j 01:02	2°♿13'17	23°36'54	direct	262 Nov 20 j 04:45	10°♿04'30	
desc. node	261 Dec 29 j 17:24	17°♿49'01		morning max el	262 Nov 29 j 12:44	15°♿35'18	22°09'51
	262 Jan 07 j 03:43	0°♿			262 Dec 11 j 04:26	0°♿	
morning set	262 Jan 21 j 08:06	22°♿39'39		desc. node	262 Dec 16 j 14:27	7°♿41'44	
max. Earth dist.	262 Jan 25 j 08:31	29°♿36'00	1.38900 AU		262 Dec 31 j 04:53	0°♿	
	262 Jan 25 j 13:58	0°♿		morning set	263 Jan 01 j 14:15	2°♿14'03	
				max. Earth dist.	263 Jan 07 j 05:40	11°♿31'24	1.41014 AU
superior conj	262 Feb 01 j 19:18	13°♿08'36	-1°51'52				
minimum elong	262 Feb 01 j 22:44	13°♿24'43	1°51'38	superior conj	263 Jan 15 j 00:23	24°♿58'22	-2°01'47
evening rise	262 Feb 10 j 23:24	0°♿47'56		minimum elong	263 Jan 15 j 01:27	25°♿03'06	2°01'46
	262 Feb 10 j 13:33	0°♿			263 Jan 17 j 19:33	0°♿	
asc. node	262 Feb 16 j 05:28	10°♿48'06		evening rise	263 Jan 25 j 08:17	13°♿54'58	

asc. node	263 Feb 03 j 02:31	29° \approx 41'26		minimum elong	263 Dec 27 j 02:26	5° \approx 25'51	1°58'19
	263 Feb 03 j 07:00	0° \approx		evening rise	264 Jan 08 j 02:25	26° \approx 18'00	
evening max el	263 Feb 10 j 15:17	9° \approx 55'55	18°16'05		264 Jan 10 j 04:19	0° \approx	
retrograde	263 Feb 17 j 17:04	13° \approx 27'40		asc. node	264 Jan 20 j 23:32	17° \approx 59'02	
evening set	263 Feb 20 j 06:19	13° \approx 01'06		evening max el	264 Jan 25 j 02:36	23° \approx 01'19	18°07'37
inferior conj	263 Feb 27 j 07:12	8° \approx 18'21	3°27'39	retrograde	264 Jan 31 j 16:30	26° \approx 25'53	
minimum elong	263 Feb 27 j 10:05	8° \approx 12'04	3°27'13	evening set	264 Feb 03 j 10:25	25° \approx 49'56	
min. Earth dist.	263 Mar 02 j 16:46	5° \approx 22'31	0.59664 AU	inferior conj	264 Feb 09 j 21:37	20° \approx 45'55	3°47'57
morning rise	263 Mar 06 j 11:38	2° \approx 40'09		minimum elong	264 Feb 09 j 22:17	20° \approx 44'16	3°47'55
direct	263 Mar 12 j 23:05	0° \approx 45'12		min. Earth dist.	264 Feb 12 j 21:38	17° \approx 47'23	0.61763 AU
desc. node	263 Mar 14 j 13:37	0° \approx 52'04		morning rise	264 Feb 16 j 08:51	14° \approx 52'23	
morning max el	263 Mar 27 j 06:16	8° \approx 30'47	27°17'57	direct	264 Feb 23 j 07:12	12° \approx 25'00	
	263 Apr 12 j 14:47	0° \approx		desc. node	264 Feb 29 j 10:39	14° \approx 06'51	
morning set	263 Apr 27 j 07:46	27° \approx 12'17		morning max el	264 Mar 08 j 09:24	20° \approx 16'22	27°46'27
	263 Apr 28 j 15:45	0° \approx			264 Mar 16 j 18:19	0° \approx	
asc. node	263 May 02 j 01:49	7° \approx 21'02			264 Apr 04 j 12:37	0° \approx	
				morning set	264 Apr 10 j 12:08	11° \approx 43'03	
superior conj	263 May 04 j 10:50	12° \approx 33'02	0°24'56	max. Earth dist.	264 Apr 16 j 09:06	24° \approx 06'39	1.32547 AU
minimum elong	263 May 04 j 09:44	12° \approx 27'01	0°24'42				
max. Earth dist.	263 May 03 j 22:31	11° \approx 25'26	1.32310 AU	superior conj	264 Apr 17 j 21:14	27° \approx 22'52	-0°00'43
evening rise	263 May 11 j 08:14	27° \approx 30'08		minimum elong	264 Apr 17 j 21:16	27° \approx 23'03	0°00'43
	263 May 12 j 12:53	0° \approx		behind sun begin	264 Apr 17 j 16:10	26° \approx 55'15	
	263 May 29 j 13:11	0° \approx		behind sun end	264 Apr 18 j 02:22	27° \approx 50'52	
evening max el	263 Jun 08 j 13:47	12° \approx 00'03	25°57'54	asc. node	264 Apr 17 j 22:51	27° \approx 31'41	
desc. node	263 Jun 10 j 12:54	13° \approx 46'10			264 Apr 19 j 02:03	0° \approx	
retrograde	263 Jun 22 j 14:50	19° \approx 12'03		evening rise	264 Apr 24 j 19:44	12° \approx 24'28	
evening set	263 Jun 28 j 18:15	17° \approx 40'52			264 May 03 j 18:27	0° \approx	
min. Earth dist.	263 Jul 03 j 02:26	15° \approx 01'49	0.58860 AU	evening max el	264 May 20 j 05:56	22° \approx 53'13	24°34'09
inferior conj	263 Jul 06 j 09:46	12° \approx 34'51	-4°46'57	desc. node	264 May 27 j 09:55	28° \approx 11'32	
minimum elong	263 Jul 06 j 10:18	12° \approx 33'52	4°46'57	retrograde	264 Jun 03 j 04:11	29° \approx 55'36	
morning rise	263 Jul 14 j 04:39	8° \approx 08'54		evening set	264 Jun 08 j 00:42	29° \approx 02'35	
direct	263 Jul 16 j 16:46	7° \approx 48'00		min. Earth dist.	264 Jun 13 j 17:17	26° \approx 08'19	0.56962 AU
morning max el	263 Jul 24 j 17:25	11° \approx 37'29	18°33'40	inferior conj	264 Jun 16 j 12:39	24° \approx 19'55	-4°31'34
asc. node	263 Jul 29 j 01:02	16° \approx 41'55		minimum elong	264 Jun 16 j 08:23	24° \approx 26'50	4°31'03
	263 Aug 06 j 00:42	0° \approx		morning rise	264 Jun 24 j 18:49	20° \approx 14'26	
morning set	263 Aug 09 j 22:34	7° \approx 02'06		direct	264 Jun 27 j 09:27	19° \approx 55'36	
				morning max el	264 Jul 06 j 16:29	24° \approx 14'52	19°25'05
superior conj	263 Aug 18 j 19:46	24° \approx 02'52	1°41'41		264 Jul 11 j 15:03	0° \approx	
minimum elong	263 Aug 18 j 22:01	24° \approx 03'25	1°41'34	asc. node	264 Jul 14 j 22:05	4° \approx 59'20	
	263 Aug 21 j 19:50	0° \approx		morning set	264 Jul 23 j 22:42	21° \approx 46'41	
max. Earth dist.	263 Aug 26 j 02:32	7° \approx 37'47	1.39881 AU		264 Jul 28 j 01:03	0° \approx	
evening rise	263 Aug 30 j 07:58	14° \approx 51'56					
desc. node	263 Sep 06 j 12:15	26° \approx 31'16		superior conj	264 Aug 01 j 01:10	7° \approx 05'42	1°46'55
	263 Sep 08 j 17:53	0° \approx		minimum elong	264 Aug 01 j 01:23	7° \approx 05'47	1°46'55
	263 Sep 30 j 12:30	0° \approx		max. Earth dist.	264 Aug 07 j 06:00	19° \approx 04'42	1.37870 AU
evening max el	263 Oct 04 j 07:54	4° \approx 06'32	23°49'40	evening rise	264 Aug 11 j 00:50	26° \approx 03'47	
retrograde	263 Oct 15 j 03:19	10° \approx 28'27			264 Aug 12 j 23:46	0° \approx	
evening set	263 Oct 20 j 07:16	8° \approx 19'14		desc. node	264 Aug 23 j 09:15	16° \approx 59'09	
min. Earth dist.	263 Oct 25 j 03:37	2° \approx 40'50	0.67595 AU		264 Sep 01 j 06:18	0° \approx	
asc. node	263 Oct 25 j 00:14	2° \approx 52'20		evening max el	264 Sep 15 j 19:40	17° \approx 42'31	25°06'47
inferior conj	263 Oct 25 j 16:29	1° \approx 57'06	0°14'01	retrograde	264 Sep 27 j 15:20	24° \approx 33'04	
minimum elong	263 Oct 25 j 16:08	1° \approx 58'15	0°13'52	evening set	264 Oct 03 j 09:56	22° \approx 06'59	
transit middle	263 Oct 25 j 16:08	1° \approx 58'15	0°13'52	min. Earth dist.	264 Oct 07 j 21:53	17° \approx 03'25	0.67185 AU
transit begin	263 Oct 25 j 14:43	2° \approx 03'07		inferior conj	264 Oct 08 j 21:25	15° \approx 46'21	-0°41'15
transit end	263 Oct 25 j 17:34	1° \approx 53'24		minimum elong	264 Oct 08 j 22:27	15° \approx 42'59	0°40'48
	263 Oct 27 j 03:26	30° \approx 00'00		asc. node	264 Oct 10 j 21:17	13° \approx 14'12	
morning rise	263 Oct 31 j 00:58	25° \approx 50'04		morning rise	264 Oct 14 j 11:05	9° \approx 46'29	
direct	263 Nov 04 j 01:09	24° \approx 19'15		direct	264 Oct 17 j 23:15	8° \approx 35'27	
morning max el	263 Nov 12 j 06:46	29° \approx 06'29	20°50'14	morning max el	264 Oct 25 j 08:34	12° \approx 48'02	19°42'50
	263 Nov 13 j 03:21	0° \approx			264 Nov 07 j 07:22	0° \approx	
desc. node	263 Dec 03 j 11:29	27° \approx 55'00		desc. node	264 Nov 19 j 08:30	18° \approx 22'29	
	263 Dec 04 j 20:33	0° \approx		morning set	264 Nov 19 j 15:23	18° \approx 49'08	
morning set	263 Dec 11 j 18:29	10° \approx 37'53			264 Nov 26 j 19:46	0° \approx	
max. Earth dist.	263 Dec 20 j 10:21	24° \approx 24'09	1.42887 AU	max. Earth dist.	264 Dec 01 j 22:37	8° \approx 04'37	1.44261 AU
	263 Dec 23 j 20:20	0° \approx					
superior conj	263 Dec 27 j 05:51	5° \approx 40'16	-1°58'27	superior conj	264 Dec 06 j 08:20	15° \approx 07'31	-1°37'34
				minimum elong	264 Dec 06 j 00:31	14° \approx 36'02	1°36'54

	264 Dec 15 j 09:58	0°♁		minimum elong	265 Nov 15 j 06:16	23°♁11'42	0°58'00
evening rise	264 Dec 20 j 01:23	7°♁48'21			265 Nov 19 j 13:50	0°♁	
	265 Jan 02 j 14:39	0°♁		evening rise	265 Dec 01 j 01:33	18°♁20'45	
asc. node	265 Jan 06 j 20:34	5°♁29'38			265 Dec 08 j 06:52	0°♁	
evening max el	265 Jan 07 j 15:06	6°♁18'35	18°18'16	evening max el	265 Dec 22 j 02:16	19°♁42'35	18°47'06
retrograde	265 Jan 14 j 02:52	9°♁49'09		asc. node	265 Dec 24 j 17:36	22°♁00'18	
evening set	265 Jan 17 j 01:25	9°♁03'02		retrograde	265 Dec 28 j 20:03	23°♁29'55	
inferior conj	265 Jan 23 j 02:25	3°♁39'12	3°45'59	evening set	266 Jan 01 j 00:06	22°♁32'33	
minimum elong	265 Jan 23 j 01:13	3°♁42'33	3°45'54	inferior conj	266 Jan 06 j 17:49	16°♁51'15	3°27'58
min. Earth dist.	265 Jan 25 j 11:56	0°♁58'47	0.63656 AU	minimum elong	266 Jan 06 j 15:29	16°♁58'24	3°27'35
	265 Jan 26 j 10:08	30°♁♁		min. Earth dist.	266 Jan 08 j 12:01	14°♁42'19	0.65212 AU
morning rise	265 Jan 29 j 00:21	27°♁36'09		morning rise	266 Jan 12 j 06:31	10°♁42'22	
direct	265 Feb 04 j 23:21	24°♁49'07		direct	266 Jan 18 j 22:35	7°♁50'17	
desc. node	265 Feb 15 j 07:41	29°♁34'02		morning max el	266 Feb 01 j 03:03	15°♁32'41	26°56'36
	265 Feb 15 j 20:02	0°♁		desc. node	266 Feb 02 j 04:43	16°♁38'30	
morning max el	265 Feb 18 j 17:16	2°♁40'34	27°38'05		266 Feb 13 j 01:08	0°♁	
	265 Mar 11 j 02:10	0°♁			266 Mar 03 j 20:20	0°♁	
morning set	265 Mar 25 j 09:41	25°♁50'00		morning set	266 Mar 08 j 21:13	9°♁22'40	
	265 Mar 27 j 11:20	0°♁		max. Earth dist.	266 Mar 13 j 08:16	18°♁09'59	1.34243 AU
max. Earth dist.	265 Mar 30 j 13:41	6°♁25'19	1.33177 AU				
				superior conj	266 Mar 17 j 06:43	26°♁15'09	-0°54'29
superior conj	265 Apr 02 j 04:33	11°♁59'12	-0°27'33	minimum elong	266 Mar 17 j 09:20	26°♁28'51	0°54'00
minimum elong	265 Apr 02 j 05:53	12°♁06'20	0°27'16		266 Mar 19 j 01:36	0°♁	
asc. node	265 Apr 04 j 19:53	17°♁39'48		asc. node	266 Mar 22 j 16:55	7°♁40'53	
evening rise	265 Apr 09 j 07:26	27°♁15'11		evening rise	266 Mar 24 j 17:28	11°♁55'20	
	265 Apr 10 j 14:56	0°♁			266 Apr 03 j 03:22	0°♁	
	265 Apr 28 j 15:09	0°♁		evening max el	266 Apr 13 j 17:01	14°♁11'06	21°27'26
evening max el	265 May 01 j 20:35	3°♁26'45	22°59'08	retrograde	266 Apr 25 j 20:30	20°♁06'03	
desc. node	265 May 14 j 06:56	10°♁03'26		evening set	266 Apr 28 j 06:04	19°♁52'56	
retrograde	265 May 15 j 05:16	10°♁05'24		desc. node	266 May 01 j 03:57	19°♁04'35	
evening set	265 May 18 j 15:11	9°♁39'51		inferior conj	266 May 07 j 15:37	15°♁52'07	-1°50'20
min. Earth dist.	265 May 26 j 05:44	6°♁17'10	0.55564 AU	minimum elong	266 May 07 j 10:31	15°♁59'16	1°48'36
inferior conj	265 May 27 j 20:13	5°♁21'27	-3°32'07	min. Earth dist.	266 May 07 j 18:34	15°♁47'59	0.54978 AU
minimum elong	265 May 27 j 12:53	5°♁32'06	3°30'17	morning rise	266 May 16 j 15:34	11°♁53'02	
morning rise	265 Jun 05 j 13:08	1°♁27'51		direct	266 May 19 j 18:08	11°♁31'57	
direct	265 Jun 08 j 07:24	1°♁09'48		morning max el	266 Jun 01 j 06:30	17°♁27'38	22°07'20
morning max el	265 Jun 19 j 04:57	6°♁12'43	20°37'19		266 Jun 11 j 05:05	0°♁	
asc. node	265 Jul 01 j 19:08	23°♁54'35		asc. node	266 Jun 18 j 16:10	13°♁17'34	
	265 Jul 05 j 00:05	0°♁		morning set	266 Jun 22 j 14:31	21°♁16'09	
morning set	265 Jul 08 j 04:46	6°♁25'29			266 Jun 26 j 17:47	0°♁	
				superior conj	266 Jun 29 j 20:17	6°♁34'30	1°34'21
superior conj	265 Jul 15 j 18:36	22°♁03'03	1°43'54	minimum elong	266 Jun 29 j 18:06	6°♁22'58	1°34'08
minimum elong	265 Jul 15 j 17:18	21°♁56'26	1°43'50		266 Jul 03 j 04:42	13°♁32'24	1.34535 AU
	265 Jul 19 j 17:48	0°♁		max. Earth dist.	266 Jul 07 j 20:47	22°♁51'37	
max. Earth dist.	265 Jul 20 j 13:13	1°♁35'00	1.36035 AU	evening rise	266 Jul 11 j 15:23	0°♁	
evening rise	265 Jul 24 j 14:46	9°♁19'21			266 Jul 28 j 03:20	26°♁58'55	
	265 Aug 05 j 14:42	0°♁		desc. node	266 Jul 30 j 06:57	0°♁	
desc. node	265 Aug 10 j 06:17	7°♁11'07			266 Aug 11 j 19:10	14°♁50'14	27°01'36
	265 Aug 27 j 23:24	0°♁		evening max el	266 Aug 25 j 00:48	22°♁08'39	
evening max el	265 Aug 29 j 07:16	1°♁19'36	26°13'16	retrograde	266 Aug 31 j 21:27	19°♁23'15	
retrograde	265 Sep 10 j 22:39	8°♁29'07		evening set	266 Sep 04 j 18:35	15°♁33'06	0.65329 AU
evening set	265 Sep 17 j 07:26	5°♁49'48		min. Earth dist.	266 Sep 06 j 18:02	13°♁17'25	-2°33'26
min. Earth dist.	265 Sep 21 j 11:37	1°♁22'47	0.66438 AU	inferior conj	266 Sep 06 j 21:53	13°♁06'22	2°32'03
inferior conj	265 Sep 22 j 22:38	29°♁34'36	-1°37'42	minimum elong	266 Sep 12 j 23:00	7°♁40'32	
minimum elong	265 Sep 23 j 01:08	29°♁26'52	1°36'40	morning rise	266 Sep 14 j 15:22	7°♁05'04	
	265 Sep 22 j 14:26	30°♁♁		asc. node	266 Sep 15 j 17:49	6°♁58'25	
asc. node	265 Sep 27 j 18:19	24°♁26'52		direct	266 Sep 22 j 07:01	10°♁31'30	18°14'16
morning rise	265 Sep 28 j 19:12	23°♁44'42		morning max el	266 Oct 05 j 19:31	0°♁	
direct	265 Oct 01 j 21:30	22°♁50'00			266 Oct 10 j 23:46	8°♁30'32	
morning max el	265 Oct 08 j 17:23	26°♁38'14	18°50'21	morning set	266 Oct 24 j 02:37	29°♁44'16	
	265 Oct 11 j 16:12	0°♁		desc. node	266 Oct 24 j 06:35	0°♁	
morning set	265 Oct 30 j 05:20	27°♁57'11					
	265 Oct 31 j 12:27	0°♁		superior conj	266 Oct 25 j 15:42	2°♁11'19	-0°10'12
desc. node	265 Nov 06 j 05:33	9°♁00'10		minimum elong	266 Oct 25 j 14:23	2°♁06'06	0°10'02
max. Earth dist.	265 Nov 14 j 15:39	22°♁14'12	1.44972 AU	behind sun begin	266 Oct 25 j 05:37	1°♁31'22	
				behind sun end	266 Oct 25 j 23:09	2°♁40'48	
superior conj	265 Nov 15 j 13:28	23°♁40'02	-0°58'53				

max. Earth dist.	266 Oct 28 j 10:13	6° \mathbb{M} 33'58	1.44947 AU		267 Sep 10 j 12:24	0° \mathbb{M}	
evening rise	266 Nov 11 j 02:35	27° \mathbb{M} 57'29		morning set	267 Sep 22 j 20:53	20° \mathbb{M} 21'06	
	266 Nov 12 j 10:02	0° \mathbb{M}			267 Sep 28 j 12:12	0° \mathbb{M}	
greatest brilliancy	266 Nov 23 j 02:08	16° \mathbb{M} 29'23	-0.7m				
	266 Dec 02 j 15:19	0° \mathbb{M}		superior conj	267 Oct 05 j 11:33	11° \mathbb{M} 37'01	0°36'06
evening max el	266 Dec 05 j 10:00	3° \mathbb{M} 10'18	19°32'42	minimum elong	267 Oct 05 j 15:18	11° \mathbb{M} 52'21	0°35'35
asc. node	266 Dec 11 j 14:37	7° \mathbb{M} 16'40		desc. node	267 Oct 10 j 23:40	20° \mathbb{M} 30'59	
retrograde	266 Dec 12 j 16:44	7° \mathbb{M} 23'18		max. Earth dist.	267 Oct 11 j 03:41	20° \mathbb{M} 47'00	1.44205 AU
evening set	266 Dec 16 j 03:51	6° \mathbb{M} 13'07			267 Oct 16 j 23:52	0° \mathbb{M}	
inferior conj	266 Dec 21 j 16:40	0° \mathbb{M} 17'02	2°58'18	evening rise	267 Oct 21 j 11:47	6° \mathbb{M} 58'24	
minimum elong	266 Dec 21 j 13:54	0° \mathbb{M} 26'03	2°57'35		267 Nov 05 j 18:48	0° \mathbb{M}	
	266 Dec 21 j 21:53	30° \mathbb{R} \mathbb{M}		evening max el	267 Nov 18 j 12:41	16° \mathbb{M} 39'05	20°32'57
min. Earth dist.	266 Dec 22 j 20:33	28° \mathbb{M} 46'06	0.66384 AU	retrograde	267 Nov 26 j 14:24	21° \mathbb{M} 24'50	
morning rise	266 Dec 26 j 23:42	24° \mathbb{M} 04'54		asc. node	267 Nov 28 j 11:40	21° \mathbb{M} 04'39	
direct	267 Jan 02 j 03:57	21° \mathbb{M} 20'34		evening set	267 Nov 30 j 10:32	19° \mathbb{M} 59'54	
morning max el	267 Jan 14 j 12:17	28° \mathbb{M} 40'09	25°49'45	inferior conj	267 Dec 05 j 20:21	13° \mathbb{M} 51'59	2°19'52
	267 Jan 15 j 19:09	0° \mathbb{M}		minimum elong	267 Dec 05 j 17:44	14° \mathbb{M} 00'52	2°19'00
desc. node	267 Jan 20 j 01:47	4° \mathbb{M} 52'26		min. Earth dist.	267 Dec 06 j 11:24	13° \mathbb{M} 00'49	0.67174 AU
	267 Feb 06 j 19:59	0° \mathbb{M}		morning rise	267 Dec 11 j 00:44	7° \mathbb{M} 38'39	
morning set	267 Feb 19 j 18:28	22° \mathbb{M} 08'21		direct	267 Dec 16 j 14:31	5° \mathbb{M} 11'11	
max. Earth dist.	267 Feb 23 j 14:49	29° \mathbb{M} 21'54	1.35769 AU	morning max el	267 Dec 27 j 20:34	11° \mathbb{M} 53'47	24°27'18
	267 Feb 23 j 22:45	0° \mathbb{M}		desc. node	268 Jan 06 j 22:51	23° \mathbb{M} 55'02	
					268 Jan 11 j 09:18	0° \mathbb{M}	
superior conj	267 Mar 01 j 01:13	10° \mathbb{M} 03'31	-1°20'00		268 Jan 30 j 14:27	0° \mathbb{M}	
minimum elong	267 Mar 01 j 04:51	10° \mathbb{M} 21'49	1°19'27	morning set	268 Feb 01 j 19:40	3° \mathbb{M} 50'12	
evening rise	267 Mar 08 j 23:52	26° \mathbb{M} 18'46		max. Earth dist.	268 Feb 05 j 12:03	10° \mathbb{M} 23'44	1.37694 AU
asc. node	267 Mar 09 j 13:59	27° \mathbb{M} 30'32					
	267 Mar 10 j 19:35	0° \mathbb{M}		superior conj	268 Feb 12 j 08:40	23° \mathbb{M} 14'29	-1°41'59
evening max el	267 Mar 27 j 00:10	25° \mathbb{M} 28'30	20°09'18	minimum elong	268 Feb 12 j 12:34	23° \mathbb{M} 33'15	1°41'34
	267 Apr 03 j 03:19	0° \mathbb{M}			268 Feb 15 j 19:43	0° \mathbb{M}	
retrograde	267 Apr 06 j 10:55	0° \mathbb{M} 29'43		evening rise	268 Feb 21 j 00:14	10° \mathbb{M} 18'05	
evening set	267 Apr 08 j 13:09	0° \mathbb{M} 18'31		asc. node	268 Feb 24 j 11:01	17° \mathbb{M} 03'02	
	267 Apr 09 j 21:37	30° \mathbb{R} \mathbb{M}			268 Mar 02 j 20:39	0° \mathbb{M}	
inferior conj	267 Apr 17 j 12:27	26° \mathbb{M} 19'49	0°08'57	evening max el	268 Mar 08 j 18:23	7° \mathbb{M} 23'37	19°09'32
minimum elong	267 Apr 17 j 12:51	26° \mathbb{M} 19'12	0°08'49	retrograde	268 Mar 17 j 13:33	11° \mathbb{M} 38'00	
transit middle	267 Apr 17 j 12:51	26° \mathbb{M} 19'12	0°08'49	evening set	268 Mar 19 j 18:41	11° \mathbb{M} 23'04	
transit begin	267 Apr 17 j 09:31	26° \mathbb{M} 24'11		inferior conj	268 Mar 27 j 23:44	7° \mathbb{M} 11'38	1°52'42
transit end	267 Apr 17 j 16:12	26° \mathbb{M} 14'13		minimum elong	268 Mar 28 j 03:41	7° \mathbb{M} 04'53	1°51'30
desc. node	267 Apr 18 j 00:57	26° \mathbb{M} 01'07		min. Earth dist.	268 Mar 30 j 23:37	5° \mathbb{M} 09'59	0.56612 AU
min. Earth dist.	267 Apr 19 j 08:28	25° \mathbb{M} 14'16	0.55357 AU	desc. node	268 Apr 03 j 21:59	2° \mathbb{M} 54'09	
morning rise	267 Apr 26 j 10:41	21° \mathbb{M} 56'53		morning rise	268 Apr 05 j 09:45	2° \mathbb{M} 15'57	
direct	267 Apr 30 j 07:43	21° \mathbb{M} 24'01		direct	268 Apr 10 j 08:54	1° \mathbb{M} 18'37	
morning max el	267 May 13 j 23:46	28° \mathbb{M} 08'20	23°47'37	morning max el	268 Apr 24 j 14:15	8° \mathbb{M} 36'49	25°25'35
	267 May 15 j 20:24	0° \mathbb{M}			268 May 10 j 12:34	0° \mathbb{M}	
	267 Jun 04 j 01:42	0° \mathbb{M}		morning set	268 May 21 j 14:01	21° \mathbb{M} 10'59	
asc. node	267 Jun 05 j 13:15	3° \mathbb{M} 01'02		asc. node	268 May 22 j 10:20	22° \mathbb{M} 58'31	
morning set	267 Jun 07 j 02:09	6° \mathbb{M} 13'11			268 May 25 j 16:28	0° \mathbb{M}	
superior conj	267 Jun 14 j 03:25	21° \mathbb{M} 22'13	1°19'39	superior conj	268 May 28 j 13:45	6° \mathbb{M} 18'37	1°00'51
minimum elong	267 Jun 14 j 00:56	21° \mathbb{M} 08'51	1°19'18	minimum elong	268 May 28 j 11:29	6° \mathbb{M} 06'15	1°00'28
max. Earth dist.	267 Jun 16 j 05:43	25° \mathbb{M} 51'40	1.33426 AU	max. Earth dist.	268 May 29 j 14:11	8° \mathbb{M} 31'56	1.32698 AU
	267 Jun 18 j 04:48	0° \mathbb{M}		evening rise	268 Jun 04 j 16:25	21° \mathbb{M} 30'33	
evening rise	267 Jun 21 j 14:31	6° \mathbb{M} 59'03			268 Jun 08 j 22:18	0° \mathbb{M}	
	267 Jul 04 j 04:16	0° \mathbb{M}			268 Jun 27 j 05:47	0° \mathbb{M}	
desc. node	267 Jul 15 j 00:20	16° \mathbb{M} 12'20		desc. node	268 Jun 30 j 21:19	4° \mathbb{M} 37'11	
evening max el	267 Jul 25 j 06:23	28° \mathbb{M} 03'46	27°24'32	evening max el	268 Jul 06 j 14:29	10° \mathbb{M} 46'57	27°16'36
	267 Jul 27 j 09:59	0° \mathbb{M}		retrograde	268 Jul 20 j 10:32	18° \mathbb{M} 03'47	
retrograde	267 Aug 07 j 21:03	5° \mathbb{M} 23'05		evening set	268 Jul 27 j 14:14	15° \mathbb{M} 39'57	
evening set	267 Aug 15 j 00:58	2° \mathbb{M} 42'02		min. Earth dist.	268 Jul 31 j 04:26	12° \mathbb{M} 50'30	0.62067 AU
	267 Aug 18 j 03:03	30° \mathbb{R} \mathbb{M}		inferior conj	268 Aug 03 j 04:52	10° \mathbb{M} 03'47	-4°10'15
min. Earth dist.	267 Aug 18 j 16:40	29° \mathbb{M} 26'07	0.63862 AU	minimum elong	268 Aug 03 j 09:29	9° \mathbb{M} 53'07	4°09'20
inferior conj	267 Aug 21 j 05:06	26° \mathbb{M} 49'26	-3°25'43	morning rise	268 Aug 10 j 06:09	5° \mathbb{M} 02'46	
minimum elong	267 Aug 21 j 09:52	26° \mathbb{M} 37'04	3°24'20	direct	268 Aug 12 j 17:42	4° \mathbb{M} 35'55	
morning rise	267 Aug 27 j 19:46	21° \mathbb{M} 28'46		asc. node	268 Aug 18 j 09:32	6° \mathbb{M} 59'11	
direct	267 Aug 30 j 09:40	20° \mathbb{M} 55'42		morning max el	268 Aug 19 j 13:45	8° \mathbb{M} 03'01	17°54'55
asc. node	267 Sep 01 j 12:26	21° \mathbb{M} 18'15			268 Sep 02 j 20:19	0° \mathbb{M}	
morning max el	267 Sep 05 j 22:45	24° \mathbb{M} 21'46	17°55'28	morning set	268 Sep 04 j 14:43	3° \mathbb{M} 11'29	

superior conj	268 Sep 15 j 10:33	22° \mathbb{M} 23'25	1°11'32		269 Aug 26 j 00:59	0° \mathbb{M}	
minimum elong	268 Sep 15 j 15:27	22° \mathbb{M} 44'27	1°10'59				
	268 Sep 19 j 22:27	0° \mathbb{L}		superior conj	269 Aug 28 j 11:01	4° \mathbb{M} 25'20	1°34'05
max. Earth dist.	268 Sep 22 j 17:28	4° \mathbb{L} 36'45	1.42842 AU	minimum elong	269 Aug 28 j 14:30	4° \mathbb{M} 41'05	1°33'49
desc. node	268 Sep 26 j 20:41	11° \mathbb{L} 17'27		max. Earth dist.	269 Sep 05 j 01:31	17° \mathbb{M} 46'20	1.41030 AU
evening rise	268 Sep 29 j 21:30	16° \mathbb{L} 05'19		evening rise	269 Sep 10 j 00:01	25° \mathbb{M} 59'33	
	268 Oct 08 j 23:35	0° \mathbb{M}			269 Sep 12 j 11:34	0° \mathbb{L}	
	268 Oct 31 j 06:15	0° \mathbb{J}		desc. node	269 Sep 13 j 17:42	1° \mathbb{L} 59'51	
evening max el	268 Oct 31 j 09:37	0° \mathbb{J} 08'35	21°44'38		269 Oct 02 j 18:20	0° \mathbb{M}	
retrograde	268 Nov 09 j 11:08	5° \mathbb{J} 31'59		evening max el	269 Oct 14 j 01:17	13° \mathbb{M} 38'55	23°03'20
evening set	268 Nov 13 j 18:18	3° \mathbb{J} 50'27		retrograde	269 Oct 24 j 05:26	19° \mathbb{M} 40'58	
asc. node	268 Nov 14 j 08:44	3° \mathbb{J} 19'44		evening set	269 Oct 29 j 01:24	17° \mathbb{M} 41'44	
	268 Nov 17 j 07:39	30° \mathbb{R} \mathbb{M}		asc. node	269 Nov 01 j 05:47	14° \mathbb{M} 15'44	
inferior conj	268 Nov 19 j 02:44	27° \mathbb{M} 33'56	1°34'47	inferior conj	269 Nov 03 j 09:55	11° \mathbb{M} 20'19	0°44'37
minimum elong	268 Nov 19 j 00:43	27° \mathbb{M} 40'52	1°34'00	minimum elong	269 Nov 03 j 08:53	11° \mathbb{M} 23'52	0°44'11
min. Earth dist.	268 Nov 19 j 06:19	27° \mathbb{M} 21'30	0.67602 AU	min. Earth dist.	269 Nov 03 j 02:56	11° \mathbb{M} 44'25	0.67692 AU
morning rise	268 Nov 24 j 07:01	21° \mathbb{M} 21'21		morning rise	269 Nov 08 j 16:18	5° \mathbb{M} 10'34	
direct	268 Nov 29 j 05:31	19° \mathbb{M} 15'34		direct	269 Nov 13 j 00:08	3° \mathbb{M} 27'33	
morning max el	268 Dec 09 j 06:09	25° \mathbb{M} 12'41	22°59'22	morning max el	269 Nov 21 j 20:23	8° \mathbb{M} 38'52	21°34'42
	268 Dec 13 j 13:46	0° \mathbb{J}			269 Dec 08 j 06:25	0° \mathbb{J}	
desc. node	268 Dec 23 j 19:54	13° \mathbb{J} 32'37		desc. node	269 Dec 10 j 16:57	3° \mathbb{J} 34'49	
	269 Jan 03 j 21:52	0° \mathbb{Z}		morning set	269 Dec 23 j 12:40	23° \mathbb{J} 13'52	
morning set	269 Jan 12 j 18:42	14° \mathbb{Z} 13'19			269 Dec 27 j 17:50	0° \mathbb{Z}	
max. Earth dist.	269 Jan 17 j 07:34	21° \mathbb{Z} 53'30	1.39820 AU	max. Earth dist.	269 Dec 30 j 07:51	4° \mathbb{Z} 14'11	1.41858 AU
	269 Jan 21 j 22:23	0° \approx					
				superior conj	270 Jan 06 j 20:28	16° \mathbb{Z} 59'29	-2°02'16
superior conj	269 Jan 25 j 00:51	5° \approx 37'31	-1°57'24	minimum elong	270 Jan 06 j 19:50	16° \mathbb{Z} 56'45	2°02'16
minimum elong	269 Jan 25 j 03:33	5° \approx 49'54	1°57'16		270 Jan 14 j 03:58	0° \approx	
evening rise	269 Feb 03 j 15:45	23° \approx 46'46		evening rise	270 Jan 17 j 18:53	6° \approx 36'25	
	269 Feb 06 j 22:26	0° \mathbb{H}		asc. node	270 Jan 28 j 05:04	24° \approx 52'14	
asc. node	269 Feb 10 j 08:02	6° \mathbb{H} 12'44			270 Jan 31 j 19:32	0° \mathbb{H}	
evening max el	269 Feb 19 j 21:34	19° \mathbb{H} 52'29	18°29'45	evening max el	270 Feb 03 j 06:45	2° \mathbb{H} 47'03	18°10'04
retrograde	269 Feb 27 j 11:11	23° \mathbb{H} 35'23		retrograde	270 Feb 10 j 02:23	6° \mathbb{H} 14'26	
evening set	269 Mar 01 j 21:28	23° \mathbb{H} 13'38		evening set	270 Feb 12 j 17:33	5° \mathbb{H} 44'07	
inferior conj	269 Mar 09 j 07:47	18° \mathbb{H} 42'34	3°02'55	inferior conj	270 Feb 19 j 12:09	0° \mathbb{H} 52'08	3°39'27
minimum elong	269 Mar 09 j 11:42	18° \mathbb{H} 34'45	3°02'06	minimum elong	270 Feb 19 j 14:06	0° \mathbb{H} 47'37	3°39'15
min. Earth dist.	269 Mar 12 j 18:00	16° \mathbb{H} 00'02	0.58464 AU		270 Feb 20 j 10:33	30° \mathbb{R} \approx	
morning rise	269 Mar 16 j 23:16	13° \mathbb{H} 17'06		min. Earth dist.	270 Feb 22 j 18:34	27° \approx 52'04	0.60561 AU
desc. node	269 Mar 21 j 19:02	11° \mathbb{H} 47'58		morning rise	270 Feb 26 j 08:47	25° \approx 06'07	
direct	269 Mar 22 j 23:27	11° \mathbb{H} 44'21		direct	270 Mar 05 j 01:58	22° \approx 56'15	
morning max el	269 Apr 06 j 07:57	19° \mathbb{H} 22'37	26°45'33	desc. node	270 Mar 08 j 16:05	23° \approx 30'55	
	269 Apr 15 j 08:10	0° \mathbb{Y}			270 Mar 18 j 12:56	0° \mathbb{H}	
	269 May 03 j 01:33	0° \mathbb{B}		morning max el	270 Mar 19 j 07:52	0° \mathbb{H} 45'41	27°34'45
morning set	269 May 06 j 00:25	6° \mathbb{B} 03'32			270 Apr 09 j 10:04	0° \mathbb{Y}	
asc. node	269 May 09 j 07:22	13° \mathbb{B} 04'37		morning set	270 Apr 20 j 07:36	20° \mathbb{Y} 44'55	
					270 Apr 24 j 16:26	0° \mathbb{B}	
superior conj	269 May 13 j 01:26	21° \mathbb{B} 17'12	0°38'48	asc. node	270 Apr 26 j 04:22	3° \mathbb{B} 15'08	
minimum elong	269 May 12 j 23:48	21° \mathbb{B} 08'17	0°38'29	max. Earth dist.	270 Apr 26 j 14:44	4° \mathbb{B} 11'43	1.32357 AU
max. Earth dist.	269 May 13 j 02:27	21° \mathbb{B} 22'47	1.32343 AU				
	269 May 17 j 01:05	0° \mathbb{I}		superior conj	270 Apr 27 j 12:48	6° \mathbb{B} 12'23	0°14'16
evening rise	269 May 19 j 23:45	6° \mathbb{I} 16'44		minimum elong	270 Apr 27 j 12:09	6° \mathbb{B} 08'50	0°14'08
	269 Jun 01 j 12:46	0° \mathbb{O}		behind sun begin	270 Apr 27 j 09:52	5° \mathbb{B} 56'19	
desc. node	269 Jun 17 j 18:20	21° \mathbb{O} 52'38		behind sun end	270 Apr 27 j 14:26	6° \mathbb{B} 21'22	
evening max el	269 Jun 18 j 16:38	22° \mathbb{O} 47'01	26°35'29	evening rise	270 May 04 j 10:17	21° \mathbb{B} 10'21	
	269 Jul 01 j 21:52	0° \mathbb{Q}			270 May 08 j 17:33	0° \mathbb{I}	
retrograde	269 Jul 02 j 16:17	0° \mathbb{Q} 01'30			270 May 27 j 16:26	0° \mathbb{O}	
	269 Jul 03 j 10:38	30° \mathbb{R} \mathbb{O}		evening max el	270 May 31 j 11:48	4° \mathbb{O} 01'38	25°24'38
evening set	269 Jul 09 j 08:35	28° \mathbb{O} 07'59		desc. node	270 Jun 04 j 15:20	7° \mathbb{O} 30'23	
min. Earth dist.	269 Jul 13 j 05:55	25° \mathbb{O} 30'43	0.60043 AU	retrograde	270 Jun 14 j 12:42	11° \mathbb{O} 11'35	
inferior conj	269 Jul 16 j 13:43	22° \mathbb{O} 50'27	-4°40'16	evening set	270 Jun 20 j 04:13	9° \mathbb{O} 56'55	
minimum elong	269 Jul 16 j 16:23	22° \mathbb{O} 45'04	4°40'01	min. Earth dist.	270 Jun 24 j 23:44	7° \mathbb{O} 13'21	0.58008 AU
morning rise	269 Jul 24 j 02:09	18° \mathbb{O} 11'50		inferior conj	270 Jun 28 j 04:10	5° \mathbb{O} 00'11	-4°45'15
direct	269 Jul 26 j 13:36	17° \mathbb{O} 49'10		minimum elong	270 Jun 28 j 02:44	5° \mathbb{O} 02'42	4°45'10
morning max el	269 Aug 03 j 00:58	21° \mathbb{O} 26'53	18°13'45	morning rise	270 Jul 06 j 03:55	0° \mathbb{O} 43'53	
asc. node	269 Aug 05 j 06:35	23° \mathbb{O} 52'28		direct	270 Jul 08 j 16:52	0° \mathbb{O} 24'05	
	269 Aug 09 j 14:52	0° \mathbb{Q}		morning max el	270 Jul 17 j 05:23	4° \mathbb{O} 24'28	18°53'01
morning set	269 Aug 18 j 23:33	16° \mathbb{Q} 45'01		asc. node	270 Jul 23 j 03:38	11° \mathbb{O} 43'07	

	270 Aug 02 j 08:49	0°♎		morning rise	271 Jun 17 j 09:18	12°♐26'57	
morning set	270 Aug 02 j 19:04	0°♎50'15		direct	271 Jun 20 j 01:01	12°♐08'48	
				morning max el	271 Jun 30 j 00:07	16°♐45'40	19°53'22
superior conj	270 Aug 11 j 07:28	17°♎27'07	1°45'02		271 Jul 09 j 20:34	0°♐	
minimum elong	270 Aug 11 j 08:50	17°♎33'35	1°45'00	asc. node	271 Jul 10 j 00:40	0°♐17'36	
max. Earth dist.	270 Aug 18 j 04:53	0°♐11'04	1.39015 AU	morning set	271 Jul 17 j 22:00	15°♐18'20	
	270 Aug 18 j 02:24	0°♐			271 Jul 25 j 03:51	0°♎	
evening rise	270 Aug 22 j 02:59	7°♐02'46					
desc. node	270 Aug 31 j 14:42	22°♐34'20		superior conj	271 Jul 25 j 18:29	1°♎13'02	1°46'32
	270 Sep 05 j 11:36	0°♎		minimum elong	271 Jul 25 j 17:59	1°♎10'33	1°46'31
evening max el	270 Sep 26 j 13:44	27°♎12'36	24°23'10	max. Earth dist.	271 Jul 31 j 08:50	12°♎05'54	1.37055 AU
	270 Sep 29 j 15:17	0°♎		evening rise	271 Aug 04 j 05:24	19°♎13'25	
retrograde	270 Oct 07 j 20:09	3°♎48'32			271 Aug 10 j 09:51	0°♐	
evening set	270 Oct 13 j 06:12	1°♎31'49		desc. node	271 Aug 18 j 11:43	12°♐56'09	
	270 Oct 14 j 19:55	30°♐♎			271 Aug 30 j 14:21	0°♎	
min. Earth dist.	270 Oct 17 j 22:50	26°♎07'51	0.67461 AU	evening max el	271 Sep 09 j 01:23	10°♎50'11	25°36'54
inferior conj	270 Oct 18 j 16:12	25°♎09'31	-0°09'11	retrograde	271 Sep 21 j 06:20	17°♎50'21	
minimum elong	270 Oct 18 j 16:25	25°♎08'46	0°09'05	evening set	271 Sep 27 j 06:58	15°♎18'18	
transit middle	270 Oct 18 j 16:25	25°♎08'46	0°09'05	min. Earth dist.	271 Oct 01 j 15:38	10°♎29'49	0.66904 AU
transit begin	270 Oct 18 j 14:09	25°♎16'24		inferior conj	271 Oct 02 j 19:50	8°♎59'24	-1°05'08
transit end	270 Oct 18 j 18:42	25°♎01'09		minimum elong	271 Oct 02 j 21:29	8°♎54'06	1°04'25
asc. node	270 Oct 19 j 02:50	24°♎33'54		asc. node	271 Oct 05 j 23:52	5°♎11'55	
morning rise	270 Oct 24 j 02:40	19°♎05'04		morning rise	271 Oct 08 j 12:13	3°♎03'06	
direct	270 Oct 27 j 21:24	17°♎43'12		direct	271 Oct 11 j 19:53	1°♎59'24	
morning max el	270 Nov 04 j 17:45	22°♎14'55	20°19'46	morning max el	271 Oct 18 j 22:42	6°♎00'42	19°18'32
	270 Nov 11 j 05:06	0°♎			271 Nov 05 j 03:37	0°♎	
desc. node	270 Nov 27 j 13:58	23°♎54'42		morning set	271 Nov 11 j 12:27	9°♎52'35	
	270 Dec 01 j 13:09	0°♎		desc. node	271 Nov 14 j 11:01	14°♎27'23	
morning set	270 Dec 02 j 10:40	1°♎23'12			271 Nov 24 j 09:07	0°♎	
max. Earth dist.	270 Dec 12 j 15:27	17°♎27'10	1.43541 AU	max. Earth dist.	271 Nov 25 j 05:54	1°♎22'01	1.44653 AU
superior conj	270 Dec 18 j 14:30	27°♎09'17	-1°51'53	superior conj	271 Nov 28 j 06:40	6°♎10'21	-1°23'06
minimum elong	270 Dec 18 j 08:56	26°♎46'19	1°51'33	minimum elong	271 Nov 27 j 22:16	5°♎36'58	1°22'14
	270 Dec 20 j 07:40	0°♎		evening rise	271 Dec 12 j 19:04	29°♎44'34	
evening rise	270 Dec 31 j 05:24	18°♎37'55			271 Dec 12 j 22:48	0°♎	
	271 Jan 06 j 18:44	0°♎		evening max el	272 Jan 01 j 07:15	29°♎20'09	18°28'24
asc. node	271 Jan 15 j 02:06	12°♎51'30		asc. node	272 Jan 01 j 23:09	29°♎59'04	
evening max el	271 Jan 17 j 18:54	15°♎58'25	18°09'55		272 Jan 01 j 23:32	0°♎	
retrograde	271 Jan 24 j 06:56	19°♎24'08		retrograde	272 Jan 07 j 20:33	2°♎56'16	
evening set	271 Jan 27 j 02:41	18°♎44'07		evening set	272 Jan 10 j 21:21	2°♎05'28	
inferior conj	271 Feb 02 j 09:12	13°♎31'46	3°49'24		272 Jan 13 j 15:03	30°♐♎	
minimum elong	271 Feb 02 j 08:59	13°♎32'19	3°49'24	inferior conj	272 Jan 16 j 18:58	26°♎34'09	3°39'58
min. Earth dist.	271 Feb 05 j 03:30	10°♎38'24	0.62600 AU	minimum elong	272 Jan 16 j 17:11	26°♎39'19	3°39'47
morning rise	271 Feb 08 j 14:14	7°♎33'28		min. Earth dist.	272 Jan 18 j 22:00	24°♎05'52	0.64372 AU
direct	271 Feb 15 j 14:02	4°♎55'34		morning rise	272 Jan 22 j 12:31	20°♎28'30	
desc. node	271 Feb 23 j 13:08	7°♎46'23		direct	272 Jan 29 j 09:32	17°♎37'22	
morning max el	271 Mar 01 j 13:19	12°♎48'47	27°47'15	desc. node	272 Feb 10 j 10:11	23°♎59'12	
	271 Mar 15 j 07:02	0°♎		morning max el	272 Feb 11 j 22:07	25°♎25'54	27°23'57
	271 Apr 01 j 19:40	0°♎			272 Feb 16 j 03:04	0°♎	
morning set	271 Apr 04 j 09:22	5°♎06'41			272 Mar 07 j 18:25	0°♎	
max. Earth dist.	271 Apr 09 j 23:02	16°♎43'51	1.32757 AU	morning set	272 Mar 18 j 03:04	19°♎00'14	
				max. Earth dist.	272 Mar 22 j 23:35	28°♎47'56	1.33579 AU
					272 Mar 23 j 13:28	0°♎	
superior conj	271 Apr 11 j 22:06	20°♎57'19	-0°12'00				
minimum elong	271 Apr 11 j 22:40	21°♎00'25	0°11'54	superior conj	272 Mar 26 j 03:31	5°♎26'00	-0°39'02
behind sun begin	271 Apr 11 j 19:13	20°♎41'40		minimum elong	272 Mar 26 j 05:24	5°♎36'03	0°38'39
behind sun end	271 Apr 12 j 02:08	21°♎19'11		asc. node	272 Mar 29 j 22:26	13°♎31'01	
asc. node	271 Apr 13 j 01:23	23°♎25'15		evening rise	272 Apr 02 j 09:16	20°♎50'40	
	271 Apr 16 j 02:08	0°♎			272 Apr 06 j 21:12	0°♎	
evening rise	271 Apr 18 j 22:03	6°♎03'40		evening max el	272 Apr 23 j 18:54	25°♎17'42	22°18'58
	271 May 01 j 15:37	0°♎			272 Apr 30 j 03:41	0°♎	
evening max el	271 May 13 j 02:29	14°♎42'51	23°54'17	retrograde	272 May 06 j 16:50	1°♎39'06	
desc. node	271 May 22 j 12:21	20°♎54'18		desc. node	272 May 08 j 09:23	1°♎32'43	
retrograde	271 May 26 j 21:10	21°♎37'44		evening set	272 May 09 j 14:28	1°♎20'33	
evening set	271 May 31 j 02:16	20°♎58'29			272 May 13 j 15:09	30°♐♎	
min. Earth dist.	271 Jun 06 j 13:29	17°♎53'17	0.56281 AU				
inferior conj	271 Jun 08 j 22:26	16°♎26'06	-4°12'08	min. Earth dist.	272 May 18 j 01:55	27°♎42'02	0.55207 AU
minimum elong	271 Jun 08 j 16:23	16°♎35'25	4°11'04	inferior conj	272 May 18 j 23:27	27°♎11'38	-2°53'08

minimum elong	272 May 18 j 16:22	27°♄21'38	2°51'02	minimum elong	273 Apr 28 j 14:45	7°♄41'05	0°58'43
morning rise	272 May 27 j 20:02	23°♄17'51		min. Earth dist.	273 Apr 29 j 14:45	7°♄06'55	0.55024 AU
direct	272 May 30 j 17:10	22°♄59'02		morning rise	273 May 07 j 18:11	3°♄30'16	
morning max el	272 Jun 11 j 07:37	28°♄24'04	21°13'44	direct	273 May 11 j 03:26	3°♄05'33	
	272 Jun 12 j 22:25	0°♄		morning max el	273 May 24 j 05:04	9°♄22'27	22°49'30
asc. node	272 Jun 25 j 21:42	19°♄25'29			273 Jun 08 j 02:04	0°♄	
morning set	272 Jul 01 j 05:50	0°♄02'32		asc. node	273 Jun 12 j 18:46	8°♄58'29	
	272 Jul 01 j 05:21	0°♄		morning set	273 Jun 15 j 16:38	14°♄57'17	
superior conj	272 Jul 08 j 15:44	15°♄30'32	1°40'32	superior conj	273 Jun 22 j 20:04	0°♄10'19	1°28'40
minimum elong	272 Jul 08 j 13:59	15°♄21'28	1°40'25	minimum elong	273 Jun 22 j 17:41	29°♄57'38	1°28'24
max. Earth dist.	272 Jul 12 j 19:23	23°♄57'09	1.35353 AU		273 Jun 22 j 18:07	0°♄	
	272 Jul 15 j 21:28	0°♄		max. Earth dist.	273 Jun 25 j 15:21	6°♄04'59	1.34012 AU
evening rise	272 Jul 17 j 02:42	2°♄19'31		evening rise	273 Jun 30 j 14:11	16°♄08'27	
	272 Aug 02 j 08:55	0°♄			273 Jul 07 j 23:51	0°♄	
desc. node	272 Aug 04 j 08:45	2°♄58'41		desc. node	273 Jul 22 j 05:46	22°♄33'46	
evening max el	272 Aug 21 j 13:22	24°♄26'16	26°36'39		273 Jul 27 j 21:43	0°♄	
	272 Aug 28 j 17:52	0°♄		evening max el	273 Aug 04 j 01:12	7°♄51'25	27°14'50
retrograde	272 Sep 03 j 11:22	1°♄39'58		retrograde	273 Aug 17 j 10:50	15°♄10'27	
	272 Sep 08 j 15:56	30°♄		evening set	273 Aug 24 j 11:31	12°♄25'17	
evening set	272 Sep 10 j 01:34	28°♄57'19		min. Earth dist.	273 Aug 28 j 06:02	8°♄50'34	0.64751 AU
min. Earth dist.	272 Sep 14 j 02:46	24°♄45'58	0.66007 AU	inferior conj	273 Aug 30 j 11:02	6°♄24'58	-2°56'13
inferior conj	272 Sep 15 j 18:51	22°♄45'51	-2°01'34	minimum elong	273 Aug 30 j 15:22	6°♄13'04	2°54'48
minimum elong	272 Sep 15 j 21:58	22°♄36'31	2°00'21	morning rise	273 Sep 05 j 20:00	0°♄54'44	
morning rise	272 Sep 21 j 18:48	17°♄00'57		direct	273 Sep 08 j 12:30	0°♄16'47	
asc. node	272 Sep 21 j 20:56	16°♄58'04		asc. node	273 Sep 08 j 17:59	0°♄17'04	
direct	272 Sep 24 j 17:43	16°♄11'52		morning max el	273 Sep 15 j 00:41	3°♄45'33	18°04'11
morning max el	272 Oct 01 j 09:48	19°♄52'25	18°32'59		273 Oct 02 j 09:48	0°♄	
	272 Oct 09 j 04:18	0°♄		morning set	273 Oct 02 j 20:32	0°♄45'03	
morning set	272 Oct 21 j 14:10	19°♄36'42		superior conj	273 Oct 16 j 15:22	23°♄23'11	0°10'25
	272 Oct 28 j 02:17	0°♄		minimum elong	273 Oct 16 j 16:38	23°♄28'13	0°10'14
desc. node	272 Oct 31 j 08:03	5°♄08'11		behind sun begin	273 Oct 16 j 08:18	22°♄54'51	
superior conj	272 Nov 06 j 07:45	14°♄34'27	-0°38'44	behind sun end	273 Oct 17 j 00:57	24°♄01'32	
minimum elong	272 Nov 06 j 02:42	14°♄14'37	0°38'05	desc. node	273 Oct 18 j 05:07	25°♄53'55	
max. Earth dist.	272 Nov 07 j 00:30	15°♄40'16	1.45057 AU		273 Oct 20 j 19:07	0°♄	
	272 Nov 16 j 03:10	0°♄		max. Earth dist.	273 Oct 20 j 19:23	0°♄01'05	1.44717 AU
evening rise	272 Nov 22 j 09:07	9°♄52'39		evening rise	273 Nov 02 j 01:59	19°♄10'45	
greatest brilliancy	272 Dec 01 j 08:58	24°♄07'01	-0.8m		273 Nov 09 j 02:51	0°♄	
	272 Dec 05 j 04:11	0°♄		greatest brilliancy	273 Nov 15 j 17:42	10°♄00'03	-0.7m
evening max el	272 Dec 14 j 17:17	12°♄46'35	19°04'30	evening max el	273 Nov 27 j 22:58	26°♄14'45	19°56'35
asc. node	272 Dec 18 j 20:13	16°♄00'25			273 Dec 02 j 18:20	0°♄	
retrograde	272 Dec 21 j 15:34	16°♄43'27		retrograde	273 Dec 05 j 13:04	0°♄41'05	
evening set	272 Dec 24 j 22:31	15°♄40'39		asc. node	273 Dec 05 j 17:16	0°♄40'54	
inferior conj	272 Dec 30 j 13:53	9°♄52'37	3°16'36		273 Dec 08 j 04:47	30°♄	
minimum elong	272 Dec 30 j 11:18	10°♄00'48	3°16'03	evening set	273 Dec 09 j 03:48	29°♄24'43	
min. Earth dist.	273 Jan 01 j 01:44	7°♄59'42	0.65768 AU	inferior conj	273 Dec 14 j 15:05	23°♄22'55	2°42'56
morning rise	273 Jan 04 j 23:49	3°♄42'19		minimum elong	273 Dec 14 j 12:20	23°♄32'07	2°42'07
direct	273 Jan 11 j 11:20	0°♄52'25		min. Earth dist.	273 Dec 15 j 13:13	22°♄09'11	0.66767 AU
morning max el	273 Jan 24 j 07:49	8°♄25'53	26°30'39	morning rise	273 Dec 19 j 20:40	17°♄09'59	
desc. node	273 Jan 27 j 07:14	11°♄36'10		direct	273 Dec 25 j 18:49	14°♄32'17	
	273 Feb 10 j 05:20	0°♄		morning max el	274 Jan 06 j 16:48	21°♄37'42	25°16'00
	273 Feb 28 j 04:24	0°♄		desc. node	274 Jan 14 j 04:18	0°♄13'00	
morning set	273 Mar 01 j 09:07	2°♄14'29			274 Jan 14 j 00:11	0°♄	
max. Earth dist.	273 Mar 05 j 13:18	10°♄18'30	1.34846 AU		274 Feb 03 j 11:17	0°♄	
superior conj	273 Mar 10 j 02:46	19°♄31'20	-1°05'36	morning set	274 Feb 11 j 22:39	14°♄35'30	
minimum elong	273 Mar 10 j 05:53	19°♄47'21	1°05'03	max. Earth dist.	274 Feb 15 j 15:37	21°♄24'00	1.36551 AU
	273 Mar 15 j 03:35	0°♄			274 Feb 20 j 03:25	0°♄	
asc. node	273 Mar 16 j 19:30	3°♄28'08		superior conj	274 Feb 21 j 17:02	3°♄05'05	-1°29'55
evening rise	273 Mar 17 j 18:02	5°♄24'52		minimum elong	274 Feb 21 j 20:54	3°♄24'16	1°29'24
	273 Mar 31 j 12:01	0°♄		evening rise	274 Mar 01 j 22:13	19°♄39'24	
evening max el	273 Apr 05 j 19:32	6°♄14'19	20°52'02	asc. node	274 Mar 03 j 16:34	23°♄11'31	
retrograde	273 Apr 17 j 06:02	11°♄46'35			274 Mar 07 j 04:55	0°♄	
evening set	273 Apr 19 j 10:54	11°♄35'03		evening max el	274 Mar 19 j 07:24	17°♄47'39	19°41'22
desc. node	273 Apr 25 j 06:24	9°♄30'39		retrograde	274 Mar 29 j 00:48	22°♄27'59	
inferior conj	273 Apr 28 j 17:35	7°♄37'03	-0°59'45	evening set	274 Mar 31 j 03:21	22°♄15'47	





























































































































inferior conj	274 Apr 08 j 19:19	18° Υ 12'42	0°56'29		275 Mar 19 j 18:00	30° \mathcal{R} \mathcal{H}	
minimum elong	274 Apr 08 j 21:40	18° Υ 08'59	0°55'40	inferior conj	275 Mar 20 j 15:15	29° \mathcal{H} 21'38	2°26'50
min. Earth dist.	274 Apr 11 j 05:06	16° Υ 42'11	0.55792 AU	minimum elong	275 Mar 20 j 19:34	29° \mathcal{H} 13'47	2°25'40
desc. node	274 Apr 12 j 03:27	16° Υ 08'34		min. Earth dist.	275 Mar 23 j 21:46	26° \mathcal{H} 59'48	0.57345 AU
morning rise	274 Apr 17 j 13:29	13° Υ 36'02		morning rise	275 Mar 28 j 17:44	24° \mathcal{H} 12'00	
direct	274 Apr 21 j 20:48	12° Υ 54'39		desc. node	275 Mar 30 j 00:29	23° \mathcal{H} 42'30	
morning max el	274 May 05 j 20:35	19° Υ 55'31	24°30'38	direct	275 Apr 03 j 04:09	23° \mathcal{H} 00'18	
	274 May 14 j 09:22	0° \mathcal{B}			275 Apr 16 j 23:41	0° Υ	
asc. node	274 May 30 j 15:49	28° \mathcal{B} 48'49		morning max el	275 Apr 17 j 11:59	0° Υ 29'23	26°02'32
morning set	274 May 31 j 04:34	29° \mathcal{B} 55'44			275 May 08 j 04:05	0° \mathcal{B}	
	274 May 31 j 05:23	0° Π		morning set	275 May 15 j 16:00	14° \mathcal{B} 52'16	
				asc. node	275 May 17 j 12:53	18° \mathcal{B} 50'52	
superior conj	274 Jun 07 j 04:48	15° Π 02'57	1°12'08				
minimum elong	274 Jun 07 j 02:21	14° Π 49'41	1°11'45	superior conj	275 May 22 j 15:57	0° Π 01'33	0°51'52
max. Earth dist.	274 Jun 08 j 19:47	18° Π 33'41	1.33064 AU	minimum elong	275 May 22 j 13:54	29° \mathcal{B} 50'22	0°51'29
evening rise	274 Jun 14 j 11:45	0° \mathcal{B} 27'20			275 May 22 j 15:40	0° Π	
	274 Jun 14 j 06:23	0° \mathcal{B}		max. Earth dist.	275 May 23 j 06:06	1° Π 19'09	1.32502 AU
	274 Jun 30 j 23:57	0° Ω		evening rise	275 May 29 j 16:16	15° Π 06'24	
desc. node	274 Jul 09 j 02:46	11° Ω 28'50			275 Jun 06 j 06:21	0° \mathcal{B}	
evening max el	274 Jul 17 j 11:06	20° Ω 52'39	27°25'06	desc. node	275 Jun 25 j 23:46	29° \mathcal{B} 27'14	
retrograde	274 Jul 31 j 04:26	28° Ω 11'51			275 Jun 26 j 11:33	0° Ω	
evening set	274 Aug 07 j 09:28	25° Ω 36'03		evening max el	275 Jun 29 j 16:52	3° Ω 18'24	27°03'04
min. Earth dist.	274 Aug 10 j 23:38	22° Ω 33'01	0.63134 AU	retrograde	275 Jul 13 j 15:05	10° Ω 34'50	
inferior conj	274 Aug 13 j 17:38	19° Ω 50'02	-3°45'54	evening set	275 Jul 20 j 15:14	8° Ω 22'29	
minimum elong	274 Aug 13 j 22:30	19° Ω 37'59	3°44'40	min. Earth dist.	275 Jul 24 j 07:02	5° Ω 40'05	0.61221 AU
morning rise	274 Aug 20 j 12:46	14° Ω 37'43		inferior conj	275 Jul 27 j 11:27	2° Ω 53'38	-4°25'21
direct	274 Aug 23 j 01:19	14° Ω 07'42		minimum elong	275 Jul 27 j 15:30	2° Ω 44'46	4°24'43
asc. node	274 Aug 26 j 15:02	15° Ω 08'58			275 Jul 31 j 00:56	30° \mathcal{R} \mathcal{B}	
morning max el	274 Aug 29 j 16:30	17° Ω 33'07	17°52'59	morning rise	275 Aug 03 j 17:27	28° \mathcal{B} 01'53	
	274 Sep 07 j 14:31	0° \mathcal{H}		direct	275 Aug 06 j 04:32	27° \mathcal{B} 37'10	
morning set	274 Sep 15 j 03:08	13° \mathcal{H} 02'41			275 Aug 11 j 23:48	0° Ω	
	274 Sep 24 j 22:12	0° \mathcal{B}		morning max el	275 Aug 13 j 06:15	1° Ω 07'55	18°00'27
				asc. node	275 Aug 13 j 12:05	1° Ω 22'19	
superior conj	274 Sep 26 j 22:25	3° \mathcal{B} 22'29	0°52'41	morning set	275 Aug 29 j 03:55	26° Ω 12'39	
minimum elong	274 Sep 27 j 03:06	3° \mathcal{B} 42'01	0°52'06		275 Aug 31 j 05:15	0° \mathcal{H}	
max. Earth dist.	274 Oct 03 j 11:07	14° \mathcal{B} 04'34	1.43686 AU				
desc. node	274 Oct 05 j 02:08	16° \mathcal{B} 40'59		superior conj	275 Sep 08 j 08:43	14° \mathcal{H} 42'03	1°22'39
evening rise	274 Oct 12 j 09:00	28° \mathcal{B} 07'45		minimum elong	275 Sep 08 j 13:12	15° \mathcal{H} 01'45	1°22'12
	274 Oct 13 j 14:05	0° \mathcal{H}		max. Earth dist.	275 Sep 15 j 21:57	27° \mathcal{H} 36'16	1.42108 AU
	274 Nov 02 j 23:45	0° \mathcal{A}			275 Sep 17 j 08:45	0° \mathcal{B}	
evening max el	274 Nov 10 j 23:05	9° \mathcal{A} 43'28	21°02'16	desc. node	275 Sep 21 j 23:07	7° \mathcal{B} 26'03	
retrograde	274 Nov 19 j 10:39	14° \mathcal{A} 45'29		evening rise	275 Sep 22 j 00:08	7° \mathcal{B} 30'05	
asc. node	274 Nov 22 j 14:17	13° \mathcal{A} 49'28			275 Oct 06 j 19:32	0° \mathcal{H}	
evening set	274 Nov 23 j 11:09	13° \mathcal{A} 13'47		evening max el	275 Oct 24 j 17:35	23° \mathcal{H} 13'00	22°17'44
inferior conj	274 Nov 28 j 20:10	7° \mathcal{A} 01'37	2°01'29	retrograde	275 Nov 03 j 06:28	28° \mathcal{H} 53'15	
minimum elong	274 Nov 28 j 17:46	7° \mathcal{A} 09'53	2°00'37	evening set	275 Nov 07 j 18:46	27° \mathcal{H} 04'32	
min. Earth dist.	274 Nov 29 j 06:13	6° \mathcal{A} 27'04	0.67390 AU	asc. node	275 Nov 09 j 11:19	25° \mathcal{H} 27'21	
morning rise	274 Dec 04 j 00:11	0° \mathcal{A} 48'06		inferior conj	275 Nov 13 j 03:05	20° \mathcal{H} 45'35	1°14'02
	274 Dec 05 j 00:09	30° \mathcal{R} \mathcal{H}		minimum elong	275 Nov 13 j 01:27	20° \mathcal{H} 51'14	1°13'23
direct	274 Dec 09 j 07:23	28° \mathcal{H} 29'31		min. Earth dist.	275 Nov 13 j 02:11	20° \mathcal{H} 48'40	0.67673 AU
	274 Dec 14 j 02:04	0° \mathcal{A}		morning rise	275 Nov 18 j 07:58	14° \mathcal{H} 33'44	
morning max el	274 Dec 20 j 01:22	4° \mathcal{A} 54'13	23°50'03	direct	275 Nov 23 j 00:09	12° \mathcal{H} 37'26	
desc. node	275 Jan 01 j 01:22	19° \mathcal{A} 32'19		morning max el	275 Dec 02 j 12:18	18° \mathcal{H} 14'56	22°22'30
	275 Jan 08 j 09:15	0° \mathcal{B}			275 Dec 12 j 05:49	0° \mathcal{A}	
morning set	275 Jan 24 j 13:34	25° \mathcal{B} 46'52		desc. node	275 Dec 18 j 22:23	9° \mathcal{A} 21'19	
	275 Jan 27 j 00:07	0° \approx			276 Jan 01 j 12:59	0° \mathcal{B}	
max. Earth dist.	275 Jan 28 j 10:55	2° \approx 33'07	1.38582 AU	morning set	276 Jan 05 j 00:02	5° \mathcal{B} 33'34	
				max. Earth dist.	276 Jan 10 j 07:20	14° \mathcal{B} 20'59	1.40711 AU
superior conj	275 Feb 04 j 18:38	15° \approx 57'51	-1°49'32				
minimum elong	275 Feb 04 j 22:14	16° \approx 14'55	1°49'14	superior conj	276 Jan 18 j 02:43	27° \mathcal{B} 56'42	-2°01'02
	275 Feb 12 j 00:54	0° \mathcal{H}		minimum elong	276 Jan 18 j 04:17	28° \mathcal{B} 03'44	2°01'00
evening rise	275 Feb 13 j 19:16	3° \mathcal{H} 27'23			276 Jan 19 j 06:07	0° \approx	
asc. node	275 Feb 18 j 13:37	12° \mathcal{H} 35'51		evening rise	276 Jan 28 j 05:56	16° \approx 40'12	
evening max el	275 Mar 02 j 05:51	29° \mathcal{H} 59'05	18°50'09		276 Feb 04 j 12:41	0° \mathcal{H}	
	275 Mar 02 j 06:14	0° Υ		asc. node	276 Feb 05 j 10:38	1° \mathcal{H} 33'52	
retrograde	275 Mar 10 j 11:13	3° Υ 58'03		evening max el	276 Feb 13 j 12:04	12° \mathcal{H} 40'33	18°19'00
evening set	275 Mar 12 j 18:21	3° Υ 40'38		retrograde	276 Feb 20 j 16:27	16° \mathcal{H} 14'32	

evening set	276 Feb 23 j 05:01	15° H 49'13		inferior conj	277 Feb 11 j 20:10	23° \approx 32'29	3°46'25
inferior conj	276 Mar 01 j 08:14	11° H 09'30	3°22'05	minimum elong	277 Feb 11 j 21:09	23° \approx 30'04	3°46'23
minimum elong	276 Mar 01 j 11:26	11° H 02'42	3°21'34	min. Earth dist.	277 Feb 14 j 21:58	20° \approx 32'57	0.61457 AU
min. Earth dist.	276 Mar 04 j 18:22	8° H 16'24	0.59353 AU	morning rise	277 Feb 18 j 09:43	17° \approx 40'42	
morning rise	276 Mar 08 j 15:31	5° H 34'24		direct	277 Feb 25 j 07:00	15° \approx 17'37	
direct	276 Mar 15 j 00:27	3° H 45'09		desc. node	277 Mar 02 j 18:35	16° \approx 38'42	
desc. node	276 Mar 15 j 21:32	3° H 47'11		morning max el	277 Mar 11 j 10:16	23° \approx 08'28	27°44'39
morning max el	276 Mar 29 j 07:56	11° H 28'47	27°10'35		277 Mar 17 j 13:20	0° H	
	276 Apr 12 j 18:47	0° Y			277 Apr 05 j 22:42	0° Y	
morning set	276 Apr 29 j 01:15	29° Y 40'44		morning set	277 Apr 13 j 06:25	14° Y 14'39	
	276 Apr 29 j 04:56	0° B		max. Earth dist.	277 Apr 19 j 06:03	26° Y 54'52	1.32486 AU
asc. node	276 May 03 j 09:55	8° B 59'29		asc. node	277 Apr 20 j 06:57	29° Y 10'20	
superior conj	276 May 06 j 03:42	14° B 59'33	0°28'40	superior conj	277 Apr 20 j 14:25	29° Y 51'03	0°03'19
minimum elong	276 May 06 j 02:28	14° B 52'43	0°28'24	minimum elong	277 Apr 20 j 14:16	29° Y 50'12	0°03'16
max. Earth dist.	276 May 05 j 18:47	14° B 10'34	1.32309 AU	behind sun begin	277 Apr 20 j 09:16	29° Y 22'56	
evening rise	276 May 13 j 01:14	29° B 56'56		behind sun end	277 Apr 20 j 19:16	0° B 17'30	
	276 May 13 j 01:49	0° II			277 Apr 20 j 16:03	0° B	
	276 May 29 j 13:43	0° E		evening rise	277 Apr 27 j 12:33	14° B 51'31	
evening max el	276 Jun 10 j 16:18	14° E 59'53	26°08'34		277 May 05 j 02:50	0° II	
desc. node	276 Jun 11 j 20:46	16° E 05'29		evening max el	277 May 23 j 09:06	25° II 58'05	24°47'42
retrograde	276 Jun 24 j 17:01	22° E 12'21			277 May 28 j 08:11	0° E	
evening set	276 Jul 01 j 00:14	20° E 35'19		desc. node	277 May 29 j 17:48	0° E 51'21	
min. Earth dist.	276 Jul 05 j 05:07	17° E 57'18	0.59163 AU	retrograde	277 Jun 06 j 08:13	3° E 02'49	
inferior conj	276 Jul 08 j 12:55	15° E 26'21	-4°46'14	evening set	277 Jun 11 j 09:59	2° E 04'22	
minimum elong	276 Jul 08 j 14:04	15° E 24'09	4°46'11		277 Jun 15 j 14:18	30° R II	
morning rise	276 Jul 16 j 06:06	10° E 57'03		min. Earth dist.	277 Jun 16 j 20:30	29° II 13'24	0.57220 AU
direct	276 Jul 18 j 18:03	10° E 35'42		inferior conj	277 Jun 19 j 18:50	27° II 18'02	-4°36'34
morning max el	276 Jul 26 j 14:53	14° E 21'44	18°27'50	minimum elong	277 Jun 19 j 15:17	27° II 23'53	4°36'13
asc. node	276 Jul 30 j 09:08	18° E 41'56		morning rise	277 Jun 27 j 23:20	23° II 10'04	
	276 Aug 06 j 09:49	0° Ω		direct	277 Jun 30 j 13:34	22° II 50'59	
morning set	276 Aug 11 j 17:49	10° Ω 01'34		morning max el	277 Jul 09 j 15:26	27° II 04'47	19°16'09
					277 Jul 12 j 09:04	0° E	
superior conj	276 Aug 20 j 18:25	27° Ω 11'35	1°40'02	asc. node	277 Jul 17 j 06:11	6° E 52'43	
minimum elong	276 Aug 20 j 21:00	27° Ω 23'35	1°39'52	morning set	277 Jul 26 j 16:52	24° E 17'57	
	276 Aug 22 j 07:00	0° M			277 Jul 29 j 13:25	0° Ω	
max. Earth dist.	276 Aug 28 j 03:55	10° M 27'46	1.40184 AU	superior conj	277 Aug 03 j 21:42	10° Ω 34'15	1°46'42
evening rise	276 Sep 01 j 12:51	17° M 53'30		minimum elong	277 Aug 03 j 22:13	10° Ω 36'43	1°46'42
desc. node	276 Sep 07 j 20:07	28° M 05'59		max. Earth dist.	277 Aug 10 j 07:19	22° Ω 39'23	1.38161 AU
	276 Sep 09 j 01:13	0° Ω		evening rise	277 Aug 14 j 02:15	29° Ω 26'29	
	276 Sep 30 j 07:12	0° M			277 Aug 14 j 09:54	0° M	
evening max el	276 Oct 06 j 07:47	6° M 45'33	23°37'40	desc. node	277 Aug 25 j 17:09	18° M 35'59	
retrograde	276 Oct 16 j 23:12	13° M 02'16			277 Sep 02 j 09:28	0° Ω	
evening set	276 Oct 22 j 01:05	10° M 55'35		evening max el	277 Sep 18 j 19:41	20° Ω 21'09	24°55'40
asc. node	276 Oct 26 j 08:21	6° M 01'06		retrograde	277 Sep 30 j 11:58	27° Ω 08'13	
inferior conj	276 Oct 27 j 10:05	4° M 33'36	0°22'10	evening set	277 Oct 06 j 04:24	24° Ω 44'21	
minimum elong	276 Oct 27 j 09:34	4° M 35'24	0°21'56	min. Earth dist.	277 Oct 10 j 17:30	19° Ω 35'32	0.67270 AU
min. Earth dist.	276 Oct 26 j 22:45	5° M 12'18	0.67634 AU	inferior conj	277 Oct 11 j 15:27	18° Ω 23'08	-0°32'44
	276 Oct 31 j 01:06	30° R Ω		minimum elong	277 Oct 11 j 16:16	18° Ω 20'27	0°32'23
morning rise	276 Nov 01 j 17:59	28° Ω 25'51		asc. node	277 Oct 13 j 05:24	16° Ω 20'26	
direct	276 Nov 05 j 20:08	26° Ω 51'55		morning rise	277 Oct 17 j 04:15	12° Ω 22'05	
	276 Nov 12 j 08:37	0° M		direct	277 Oct 20 j 18:03	11° Ω 08'24	
morning max el	276 Nov 14 j 05:16	1° M 44'52	21°01'22	morning max el	277 Oct 28 j 06:01	15° Ω 25'33	19°51'56
desc. node	276 Dec 04 j 19:25	29° M 31'57			277 Nov 08 j 11:32	0° M	
	276 Dec 05 j 02:53	0° X		desc. node	277 Nov 21 j 16:27	19° M 57'49	
morning set	276 Dec 14 j 07:18	14° X 05'05		morning set	277 Nov 23 j 03:42	22° M 13'51	
max. Earth dist.	276 Dec 22 j 10:58	27° X 06'03	1.42638 AU		277 Nov 28 j 03:43	0° X	
	276 Dec 24 j 05:26	0° B		max. Earth dist.	277 Dec 04 j 22:12	10° X 40'25	1.44095 AU
superior conj	276 Dec 29 j 11:56	8° B 49'01	-2°00'00	superior conj	277 Dec 09 j 18:25	18° X 27'10	-1°41'57
minimum elong	276 Dec 29 j 09:16	8° B 37'43	1°59'55	minimum elong	277 Dec 09 j 11:03	17° X 57'22	1°41'21
evening rise	277 Jan 10 j 02:29	29° B 10'09			277 Dec 16 j 18:52	0° B	
	277 Jan 10 j 13:36	0° \approx		evening rise	277 Dec 23 j 04:37	10° B 49'10	
asc. node	277 Jan 22 j 07:40	19° \approx 57'25			278 Jan 03 j 16:21	0° \approx	
evening max el	277 Jan 26 j 22:53	25° \approx 43'08	18°07'39	asc. node	278 Jan 09 j 04:42	7° \approx 36'08	
retrograde	277 Feb 02 j 13:57	29° \approx 08'03		evening max el	278 Jan 10 j 11:22	8° \approx 59'13	18°15'32
evening set	277 Feb 05 j 07:10	28° \approx 33'34					

retrograde	278 Jan 16 j 23:00	12° \approx 28'19		asc. node	278 Dec 27 j 01:45	24° \approx 17'04	
evening set	278 Jan 19 j 20:47	11° \approx 43'50		retrograde	278 Dec 31 j 15:22	26° \approx 07'00	
inferior conj	278 Jan 25 j 23:06	6° \approx 22'54	3°47'26	evening set	279 Jan 03 j 18:30	25° \approx 11'27	
minimum elong	278 Jan 25 j 22:08	6° \approx 25'33	3°47'23	inferior conj	279 Jan 09 j 13:09	19° \approx 32'45	3°31'33
min. Earth dist.	278 Jan 28 j 10:57	3° \approx 38'35	0.63388 AU	minimum elong	279 Jan 09 j 10:57	19° \approx 39'25	3°31'11
morning rise	278 Jan 31 j 22:44	0° \approx 20'50		min. Earth dist.	279 Jan 11 j 09:39	17° \approx 18'24	0.65005 AU
	278 Feb 01 j 09:37	30° \approx 3		morning rise	279 Jan 15 j 02:59	13° \approx 24'34	
direct	278 Feb 07 j 22:07	27° \approx 35'46		direct	279 Jan 21 j 20:32	10° \approx 32'09	
	278 Feb 15 j 02:16	0° \approx		morning max el	279 Feb 04 j 03:21	18° \approx 16'52	27°04'34
desc. node	278 Feb 17 j 15:39	1° \approx 48'37		desc. node	279 Feb 04 j 12:42	18° \approx 30'31	
morning max el	278 Feb 21 j 17:45	5° \approx 28'15	27°41'38		279 Feb 14 j 01:04	0° \approx	
	278 Mar 12 j 08:03	0° \approx			279 Mar 05 j 06:10	0° \approx	
morning set	278 Mar 28 j 05:13	28° \approx 26'21		morning set	279 Mar 11 j 18:28	12° \approx 04'47	
	278 Mar 28 j 23:52	0° \approx		max. Earth dist.	279 Mar 16 j 07:54	21° \approx 07'19	1.34053 AU
max. Earth dist.	278 Apr 02 j 11:48	9° \approx 18'08	1.33053 AU				
				superior conj	279 Mar 20 j 01:24	28° \approx 49'39	-0°50'27
superior conj	278 Apr 04 j 22:21	14° \approx 30'17	-0°23'26	minimum elong	279 Mar 20 j 03:51	29° \approx 02'26	0°49'59
minimum elong	278 Apr 04 j 23:28	14° \approx 36'21	0°23'12		279 Mar 20 j 14:49	0° \approx	
asc. node	278 Apr 07 j 04:00	19° \approx 19'33		asc. node	279 Mar 25 j 01:03	9° \approx 22'01	
evening rise	278 Apr 12 j 00:21	29° \approx 43'32		evening rise	279 Mar 27 j 10:44	14° \approx 25'28	
	278 Apr 12 j 03:29	0° \approx			279 Apr 04 j 09:36	0° \approx	
	278 Apr 29 j 05:45	0° \approx		evening max el	279 Apr 16 j 18:42	17° \approx 13'57	21°40'28
evening max el	278 May 04 j 23:30	6° \approx 32'52	23°13'25	retrograde	279 Apr 29 j 03:31	23° \approx 16'12	
desc. node	278 May 16 j 14:50	13° \approx 08'49		evening set	279 May 01 j 15:34	23° \approx 02'06	
retrograde	278 May 18 j 11:22	13° \approx 16'39		desc. node	279 May 03 j 11:53	22° \approx 34'42	
evening set	278 May 22 j 02:00	12° \approx 48'01		inferior conj	279 May 11 j 01:30	18° \approx 59'45	-2°07'46
min. Earth dist.	278 May 29 j 09:14	9° \approx 30'12	0.55728 AU	minimum elong	279 May 10 j 19:44	19° \approx 07'51	2°05'50
inferior conj	278 May 31 j 05:03	8° \approx 25'58	-3°44'11	min. Earth dist.	279 May 10 j 22:03	19° \approx 04'35	0.55007 AU
minimum elong	278 May 30 j 21:53	8° \approx 36'30	3°42'31	morning rise	279 May 20 j 00:47	15° \approx 02'32	
morning rise	278 Jun 08 j 20:28	4° \approx 31'26		direct	279 May 23 j 01:39	14° \approx 42'16	
direct	278 Jun 11 j 13:53	4° \approx 13'30		morning max el	279 Jun 04 j 08:40	20° \approx 30'13	21°52'58
morning max el	278 Jun 22 j 05:37	9° \approx 09'15	20°25'17		279 Jun 12 j 06:22	0° \approx	
asc. node	278 Jul 04 j 03:15	25° \approx 42'56		asc. node	279 Jun 21 j 00:19	15° \approx 02'18	
	278 Jul 06 j 10:36	0° \approx		morning set	279 Jun 25 j 07:30	23° \approx 14'12	
morning set	278 Jul 10 j 22:11	8° \approx 54'05			279 Jun 28 j 07:14	0° \approx	
				superior conj	279 Jul 02 j 14:14	9° \approx 03'50	1°36'08
superior conj	278 Jul 18 j 13:36	24° \approx 35'41	1°44'47	minimum elong	279 Jul 02 j 12:08	8° \approx 52'51	1°35'58
minimum elong	278 Jul 18 j 12:30	24° \approx 30'04	1°44'46	max. Earth dist.	279 Jul 06 j 03:24	16° \approx 24'04	1.34736 AU
	278 Jul 21 j 06:19	0° \approx		evening rise	279 Jul 10 j 17:13	25° \approx 28'32	
max. Earth dist.	278 Jul 23 j 13:21	4° \approx 29'12	1.36291 AU		279 Jul 13 j 02:26	0° \approx	
evening rise	278 Jul 27 j 13:20	12° \approx 02'31		desc. node	279 Jul 30 j 11:12	28° \approx 42'34	
	278 Aug 06 j 22:22	0° \approx			279 Jul 31 j 08:50	0° \approx	
desc. node	278 Aug 12 j 14:10	8° \approx 50'32		evening max el	279 Aug 14 j 19:11	17° \approx 30'46	26°55'56
	278 Aug 28 j 12:20	0° \approx		retrograde	279 Aug 27 j 23:07	24° \approx 48'18	
evening max el	278 Sep 01 j 07:11	3° \approx 58'07	26°04'20	evening set	279 Sep 03 j 18:09	22° \approx 03'25	
retrograde	278 Sep 13 j 20:09	11° \approx 05'52		min. Earth dist.	279 Sep 07 j 16:20	18° \approx 07'44	0.65514 AU
evening set	278 Sep 20 j 02:50	8° \approx 28'12		inferior conj	279 Sep 09 j 13:48	15° \approx 55'57	-2°25'09
min. Earth dist.	278 Sep 24 j 08:08	3° \approx 55'33	0.66568 AU	minimum elong	279 Sep 09 j 17:28	15° \approx 45'17	2°23'48
inferior conj	278 Sep 25 j 17:22	2° \approx 11'47	-1°29'07	morning rise	279 Sep 15 j 17:25	10° \approx 16'47	
minimum elong	278 Sep 25 j 19:39	2° \approx 04'40	1°28'11	asc. node	279 Sep 16 j 23:31	9° \approx 46'36	
	278 Sep 27 j 12:41	30° \approx 8		direct	279 Sep 18 j 13:12	9° \approx 32'59	
asc. node	278 Sep 30 j 02:27	27° \approx 22'25		morning max el	279 Sep 25 j 02:58	13° \approx 07'52	18°18'33
morning rise	278 Oct 01 j 12:48	26° \approx 20'10			279 Oct 07 j 02:20	0° \approx	
direct	278 Oct 04 j 16:23	25° \approx 23'19		morning set	279 Oct 14 j 04:07	11° \approx 31'27	
morning max el	278 Oct 11 j 13:55	29° \approx 14'46	18°57'08		279 Oct 25 j 14:59	0° \approx	
	278 Oct 12 j 07:14	0° \approx		desc. node	279 Oct 26 j 10:31	1° \approx 17'36	
	278 Nov 01 j 20:03	0° \approx					
morning set	278 Nov 02 j 14:00	1° \approx 10'34		superior conj	279 Oct 29 j 03:09	5° \approx 33'31	-0°17'42
desc. node	278 Nov 08 j 13:29	10° \approx 34'17		minimum elong	279 Oct 29 j 00:50	5° \approx 24'23	0°17'23
max. Earth dist.	278 Nov 17 j 14:29	24° \approx 46'12	1.44910 AU	max. Earth dist.	279 Oct 31 j 09:06	9° \approx 06'08	1.44998 AU
					279 Nov 13 j 17:23	0° \approx	
superior conj	278 Nov 19 j 01:57	27° \approx 05'52	-1°05'40	evening rise	279 Nov 14 j 12:37	1° \approx 15'12	
minimum elong	278 Nov 18 j 18:13	26° \approx 35'22	1°04'46	greatest brilliancy	279 Nov 25 j 19:28	18° \approx 48'25	-0.7m
	278 Nov 20 j 22:05	0° \approx			279 Dec 03 j 11:25	0° \approx	
evening rise	278 Dec 04 j 08:23	21° \approx 30'37		evening max el	279 Dec 08 j 07:21	5° \approx 50'41	19°24'54
	278 Dec 09 j 13:40	0° \approx		asc. node	279 Dec 13 j 22:48	9° \approx 45'58	
evening max el	278 Dec 24 j 22:55	22° \approx 22'49	18°41'43				

retrograde	279 Dec 15 j 11:39	9° Z 59'05		max. Earth dist.	280 Oct 13 j 03:09	23° Z 22'10	1.44361 AU
evening set	279 Dec 18 j 21:40	8° Z 50'52			280 Oct 17 j 07:53	0° M	
inferior conj	279 Dec 24 j 11:05	2° Z 56'54	3°03'24	evening rise	280 Oct 23 j 23:18	10° M 19'12	
minimum elong	279 Dec 24 j 08:20	3° Z 05'46	3°02'43		280 Nov 05 j 23:02	0° Z	
min. Earth dist.	279 Dec 25 j 17:00	1° Z 20'08	0.66241 AU	evening max el	280 Nov 20 j 10:51	19° Z 19'19	20°23'08
	279 Dec 26 j 18:30	30° R Z		retrograde	280 Nov 28 j 09:19	23° Z 59'42	
morning rise	279 Dec 29 j 18:46	26° Z 45'13		asc. node	280 Nov 29 j 19:51	23° Z 47'57	
direct	280 Jan 05 j 01:03	23° Z 59'02		evening set	280 Dec 02 j 04:01	22° Z 36'58	
	280 Jan 16 j 02:45	0° Z		inferior conj	280 Dec 07 j 14:09	16° Z 30'32	2°26'08
morning max el	280 Jan 17 j 12:38	1° Z 22'30	26°00'52	minimum elong	280 Dec 07 j 11:29	16° Z 39'33	2°25'17
desc. node	280 Jan 22 j 09:45	6° Z 45'29		min. Earth dist.	280 Dec 08 j 06:59	15° Z 33'39	0.67083 AU
	280 Feb 08 j 02:32	0° \approx		morning rise	280 Dec 12 j 18:47	10° Z 17'21	
morning set	280 Feb 22 j 18:06	24° \approx 58'00		direct	280 Dec 18 j 10:47	7° Z 47'06	
	280 Feb 25 j 10:23	0° H		morning max el	280 Dec 29 j 21:01	14° Z 35'40	24°40'09
max. Earth dist.	280 Feb 26 j 16:09	2° H 22'53	1.35519 AU	desc. node	281 Jan 08 j 06:46	25° Z 41'39	
					281 Jan 11 j 11:32	0° Z	
superior conj	280 Mar 02 j 21:12	12° H 42'30	-1°16'19		281 Jan 30 j 23:40	0° \approx	
minimum elong	280 Mar 03 j 00:43	13° H 00'19	1°15'45	morning set	281 Feb 03 j 22:42	6° \approx 50'34	
evening rise	280 Mar 10 j 17:48	28° H 51'34		max. Earth dist.	281 Feb 07 j 14:35	13° \approx 24'59	1.37392 AU
asc. node	280 Mar 10 j 22:06	29° H 13'35					
	280 Mar 11 j 07:12	0° Y		superior conj	281 Feb 14 j 06:34	25° \approx 59'52	-1°39'00
evening max el	280 Mar 29 j 00:05	28° Y 25'16	20°19'46	minimum elong	281 Feb 14 j 10:29	26° \approx 18'57	1°38'34
	280 Mar 30 j 18:56	0° B			281 Feb 16 j 07:38	0° H	
retrograde	280 Apr 08 j 16:56	3° B 34'12		evening rise	281 Feb 22 j 19:14	12° H 55'19	
evening set	280 Apr 10 j 19:30	3° B 23'05		asc. node	281 Feb 25 j 19:09	18° H 49'21	
	280 Apr 18 j 21:13	30° R Y			281 Mar 03 j 23:07	0° Y	
desc. node	280 Apr 19 j 08:55	29° Y 42'58		evening max el	281 Mar 11 j 16:43	10° Y 14'59	19°17'06
inferior conj	280 Apr 19 j 21:03	29° Y 25'11	-0°08'43	retrograde	281 Mar 20 j 17:19	14° Y 35'39	
minimum elong	280 Apr 19 j 20:39	29° Y 25'47	0°08'34	evening set	281 Mar 22 j 21:41	14° Y 21'31	
transit middle	280 Apr 19 j 20:39	29° Y 25'47	0°08'34	inferior conj	281 Mar 31 j 05:35	10° Y 12'23	1°39'01
transit begin	280 Apr 19 j 17:15	29° Y 30'46		minimum elong	281 Mar 31 j 09:15	10° Y 06'16	1°37'51
transit end	280 Apr 20 j 00:03	29° Y 20'47		min. Earth dist.	281 Apr 03 j 02:20	8° Y 18'30	0.56376 AU
min. Earth dist.	280 Apr 21 j 11:33	28° Y 28'42	0.55242 AU	desc. node	281 Apr 06 j 05:56	6° Y 27'46	
morning rise	280 Apr 28 j 20:15	25° Y 06'55		morning rise	281 Apr 08 j 17:59	5° Y 21'43	
direct	280 May 02 j 14:03	24° Y 36'28		direct	281 Apr 13 j 12:58	4° Y 28'58	
	280 May 14 j 17:52	0° B		morning max el	281 Apr 27 j 17:14	11° Y 42'56	25°11'54
morning max el	280 May 16 j 02:43	1° B 14'03	23°32'33		281 May 11 j 17:43	0° B	
	280 Jun 04 j 12:58	0° II		morning set	281 May 24 j 06:53	23° B 38'06	
asc. node	280 Jun 06 j 21:22	4° II 43'01		asc. node	281 May 24 j 18:24	24° B 38'58	
morning set	280 Jun 08 j 18:57	8° II 39'36			281 May 27 j 06:17	0° II	
superior conj	280 Jun 15 j 20:40	23° II 49'27	1°22'10	superior conj	281 May 31 j 06:39	8° II 45'20	1°03'57
minimum elong	280 Jun 15 j 18:11	23° II 36'09	1°21'50	minimum elong	281 May 31 j 04:19	8° II 32'38	1°03'33
max. Earth dist.	280 Jun 18 j 03:13	28° II 40'35	1.33565 AU	max. Earth dist.	281 Jun 01 j 10:49	11° II 18'46	1.32780 AU
	280 Jun 18 j 18:16	0° E		evening rise	281 Jun 07 j 10:18	24° II 00'11	
evening rise	280 Jun 23 j 09:25	9° E 31'24			281 Jun 10 j 09:48	0° E	
	280 Jul 04 j 11:52	0° O			281 Jun 28 j 04:37	0° O	
desc. node	280 Jul 16 j 08:13	18° O 02'08		desc. node	281 Jul 03 j 05:13	6° O 35'50	
	280 Jul 26 j 10:56	0° P		evening max el	281 Jul 09 j 15:19	13° O 36'27	27°19'51
evening max el	280 Jul 27 j 06:41	0° P 48'01	27°23'02	retrograde	281 Jul 23 j 10:35	20° O 53'46	
retrograde	280 Aug 09 j 20:07	8° P 07'05		evening set	281 Jul 30 j 15:03	18° O 26'20	
evening set	280 Aug 16 j 23:25	5° P 24'41		min. Earth dist.	281 Aug 03 j 04:59	15° O 33'53	0.62355 AU
min. Earth dist.	280 Aug 20 j 15:48	2° P 04'02	0.64104 AU	inferior conj	281 Aug 06 j 03:54	12° O 47'38	-4°04'19
	280 Aug 22 j 14:59	30° R O		minimum elong	281 Aug 06 j 08:39	12° O 36'29	4°03'17
inferior conj	280 Aug 23 j 02:17	29° O 30'03	-3°18'13	morning rise	281 Aug 13 j 03:35	7° O 43'39	
minimum elong	280 Aug 23 j 06:57	29° O 17'43	3°16'48	direct	281 Aug 15 j 15:22	7° O 16'01	
morning rise	280 Aug 29 j 15:25	24° O 06'42		asc. node	281 Aug 20 j 17:37	9° O 14'23	
direct	280 Sep 01 j 05:57	23° O 32'26		morning max el	281 Aug 22 j 09:50	10° O 42'15	17°53'48
asc. node	280 Sep 02 j 20:35	23° O 45'41			281 Sep 04 j 05:33	0° P	
morning max el	280 Sep 07 j 18:31	26° O 58'54	17°57'07	morning set	281 Sep 07 j 12:41	5° P 54'13	
	280 Sep 10 j 09:50	0° P					
morning set	280 Sep 24 j 21:34	23° P 11'36		superior conj	281 Sep 18 j 14:16	25° P 22'35	1°07'00
	280 Sep 28 j 21:28	0° Z		minimum elong	281 Sep 18 j 19:12	25° P 43'37	1°06'25
					281 Sep 21 j 07:55	0° Z	
superior conj	280 Oct 07 j 19:22	14° Z 48'08	0°29'40	max. Earth dist.	281 Sep 25 j 17:37	7° Z 16'26	1.43081 AU
minimum elong	280 Oct 07 j 22:35	15° Z 01'16	0°29'15	desc. node	281 Sep 29 j 04:32	12° Z 50'38	
desc. node	280 Oct 12 j 07:31	22° Z 03'56		evening rise	281 Oct 03 j 07:44	19° Z 22'04	

	281 Oct 10 j 05:58	0°♍				282 Sep 13 j 20:04	0°♊	
	281 Oct 31 j 19:01	0°♊			desc. node	282 Sep 16 j 01:34	3°♊33'56	
evening max el	281 Nov 03 j 08:32	2°♊48'08	21°33'22			282 Oct 03 j 20:10	0°♍	
retrograde	281 Nov 12 j 06:19	8°♊06'00			evening max el	282 Oct 17 j 00:51	16°♍18'14	22°51'26
evening set	281 Nov 16 j 11:43	6°♊26'59			retrograde	282 Oct 27 j 01:08	22°♍15'00	
asc. node	281 Nov 16 j 16:53	6°♊16'31			evening set	282 Oct 31 j 19:01	20°♍18'31	
inferior conj	281 Nov 21 j 20:15	0°♊11'23	1°41'56		asc. node	282 Nov 03 j 13:54	17°♍22'48	
minimum elong	281 Nov 21 j 18:07	0°♊18'43	1°41'08		inferior conj	282 Nov 06 j 03:26	13°♍57'30	0°52'29
	281 Nov 21 j 23:32	30°♋♍			minimum elong	282 Nov 06 j 02:15	14°♍01'38	0°51'59
min. Earth dist.	281 Nov 22 j 01:27	29°♍53'24	0.67559 AU		min. Earth dist.	282 Nov 05 j 22:00	14°♍16'16	0.67695 AU
morning rise	281 Nov 27 j 00:23	23°♍58'31			morning rise	282 Nov 11 j 09:22	7°♍47'05	
direct	281 Dec 02 j 01:05	21°♍49'28			direct	282 Nov 15 j 19:17	6°♍00'40	
morning max el	281 Dec 12 j 06:16	27°♍53'48	23°12'26		morning max el	282 Nov 24 j 19:37	11°♍18'50	21°46'47
	281 Dec 14 j 05:58	0°♊				282 Dec 09 j 10:29	0°♊	
desc. node	281 Dec 26 j 03:48	15°♊14'23			desc. node	282 Dec 13 j 00:50	5°♊13'24	
	282 Jan 05 j 04:35	0°♊			morning set	282 Dec 27 j 00:08	26°♊38'33	
morning set	282 Jan 16 j 02:00	17°♊26'23				282 Dec 29 j 02:19	0°♊	
max. Earth dist.	282 Jan 20 j 09:54	24°♊48'47	1.39498 AU		max. Earth dist.	283 Jan 02 j 08:58	7°♊00'27	1.41568 AU
	282 Jan 23 j 08:45	0°♋						
					superior conj	283 Jan 10 j 00:20	20°♊02'43	-2°02'25
superior conj	282 Jan 28 j 01:19	8°♋30'46	-1°55'39		minimum elong	283 Jan 10 j 00:21	20°♊02'48	2°02'25
minimum elong	282 Jan 28 j 04:19	8°♋44'41	1°55'29			283 Jan 15 j 14:11	0°♋	
evening rise	282 Feb 06 j 12:17	26°♋29'13			evening rise	283 Jan 20 j 17:31	9°♋25'13	
	282 Feb 08 j 08:17	0°♋			asc. node	283 Jan 30 j 13:14	26°♋47'59	
asc. node	282 Feb 12 j 16:11	8°♋03'13				283 Feb 01 j 15:36	0°♋	
evening max el	282 Feb 22 j 18:44	22°♋39'29	18°34'24		evening max el	283 Feb 06 j 03:17	5°♋31'06	18°11'48
retrograde	282 Mar 02 j 12:08	26°♋26'13			retrograde	283 Feb 13 j 00:54	8°♋59'44	
evening set	282 Mar 04 j 21:33	26°♋05'41			evening set	283 Feb 15 j 15:22	8°♋30'47	
inferior conj	282 Mar 12 j 10:31	21°♋37'47	2°54'32		inferior conj	283 Feb 22 j 12:06	3°♋42'06	3°35'44
minimum elong	282 Mar 12 j 14:37	21°♋29'48	2°53'37		minimum elong	283 Feb 22 j 14:23	3°♋36'54	3°35'29
min. Earth dist.	282 Mar 15 j 20:15	18°♋59'52	0.58159 AU		min. Earth dist.	283 Feb 25 j 19:50	0°♋42'56	0.60246 AU
morning rise	282 Mar 20 j 04:53	16°♋16'00				283 Feb 26 j 16:19	30°♋♋	
desc. node	282 Mar 24 j 02:59	14°♋58'33			morning rise	283 Mar 01 j 11:24	27°♋58'34	
direct	282 Mar 26 j 01:37	14°♋48'55			direct	283 Mar 08 j 02:47	25°♋53'42	
morning max el	282 Apr 09 j 10:19	22°♋25'19	26°35'23		desc. node	283 Mar 11 j 00:01	26°♋16'04	
	282 Apr 16 j 03:15	0°♎				283 Mar 18 j 03:44	0°♋	
	282 May 04 j 12:59	0°♎			morning max el	283 Mar 22 j 09:15	3°♋42'09	27°29'36
morning set	282 May 08 j 17:36	8°♎31'57				283 Apr 10 j 17:14	0°♎	
asc. node	282 May 11 j 15:26	14°♎44'12			morning set	283 Apr 23 j 01:23	23°♎15'12	
						283 Apr 26 j 06:06	0°♎	
superior conj	282 May 15 j 18:14	23°♎44'06	0°42'21		asc. node	283 Apr 28 j 12:30	4°♎54'23	
minimum elong	282 May 15 j 16:29	23°♎34'31	0°41'59		max. Earth dist.	283 Apr 29 j 11:08	6°♎57'58	1.32332 AU
max. Earth dist.	282 May 15 j 22:41	24°♎08'32	1.32370 AU					
	282 May 18 j 14:53	0°♏			superior conj	283 Apr 30 j 05:46	8°♎40'06	0°18'08
evening rise	282 May 22 j 16:57	8°♏44'38			minimum elong	283 Apr 30 j 04:57	8°♎35'39	0°17'57
	282 Jun 02 j 19:24	0°♏			evening rise	283 May 07 j 03:09	23°♎37'27	
desc. node	282 Jun 20 j 02:15	24°♏03'23				283 May 10 j 05:06	0°♏	
evening max el	282 Jun 21 j 18:21	25°♏42'57	26°43'36			283 May 28 j 06:49	0°♏	
	282 Jun 27 j 01:45	0°♏			evening max el	283 Jun 03 j 14:35	7°♏03'59	25°36'44
retrograde	282 Jul 05 j 17:43	2°♏58'12			desc. node	283 Jun 06 j 23:17	9°♏57'50	
evening set	282 Jul 12 j 12:30	0°♏59'21			retrograde	283 Jun 17 j 15:45	14°♏14'56	
	282 Jul 14 j 02:24	30°♋♏			evening set	283 Jun 23 j 11:38	12°♏54'29	
min. Earth dist.	282 Jul 16 j 07:53	28°♏21'24	0.60351 AU		min. Earth dist.	283 Jun 28 j 02:49	10°♏12'47	0.58299 AU
inferior conj	282 Jul 19 j 15:09	25°♏38'46	-4°37'06		inferior conj	283 Jul 01 j 08:32	7°♏54'23	-4°46'40
minimum elong	282 Jul 19 j 18:15	25°♏32'21	4°36'46		minimum elong	283 Jul 01 j 07:50	7°♏55'39	4°46'39
morning rise	282 Jul 27 j 01:56	20°♏56'50			morning rise	283 Jul 09 j 06:35	3°♏34'45	
direct	282 Jul 29 j 13:13	20°♏33'43			direct	283 Jul 11 j 19:10	3°♏14'38	
morning max el	282 Aug 05 j 21:50	24°♏09'16	18°09'41		morning max el	283 Jul 20 j 03:25	7°♏11'02	18°45'50
asc. node	282 Aug 07 j 14:39	25°♏57'30			asc. node	283 Jul 25 j 11:42	13°♏40'06	
	282 Aug 10 j 16:39	0°♏				283 Aug 03 j 19:57	0°♏	
morning set	282 Aug 21 j 19:36	19°♏22'00			morning set	283 Aug 05 j 13:45	3°♏22'54	
	282 Aug 27 j 12:04	0°♐						
					superior conj	283 Aug 14 j 05:05	20°♏07'46	1°44'02
superior conj	282 Aug 31 j 11:16	7°♐14'11	1°31'28		minimum elong	283 Aug 14 j 06:45	20°♏15'42	1°43'58
minimum elong	282 Aug 31 j 15:02	7°♐31'08	1°31'08			283 Aug 19 j 13:15	0°♐	
max. Earth dist.	282 Sep 08 j 02:16	20°♐31'37	1.41317 AU		max. Earth dist.	283 Aug 21 j 06:01	3°♐02'09	1.39316 AU
evening rise	282 Sep 13 j 07:00	29°♐07'11			evening rise	283 Aug 25 j 06:15	9°♐59'55	

















































































































desc. node	283 Sep 02 j 22:36	24°  09'59		superior conj	284 Jul 27 j 14:15	3°  48'11	1°46'49
	283 Sep 06 j 17:37	0°  0		minimum elong	284 Jul 27 j 14:00	3°  46'56	1°46'49
evening max el	283 Sep 29 j 13:43	29°  51'42	24°11'34	max. Earth dist.	284 Aug 02 j 09:47	15°  01'11	1.37335 AU
	283 Sep 29 j 17:04	0°  0		evening rise	284 Aug 06 j 05:29	22°  01'26	
retrograde	283 Oct 10 j 16:25	6°  12'30'01			284 Aug 10 j 19:05	0°  0	
evening set	283 Oct 16 j 00:18	4°  08'59		desc. node	284 Aug 19 j 19:38	14°  03'41'17	
	283 Oct 19 j 18:06	30°  08'00			284 Aug 30 j 14:01	0°  0	
inferior conj	283 Oct 21 j 10:00	27°  46'38	-0°00'49	evening max el	284 Sep 11 j 01:29	13°  42'29'19	25°26'36
minimum elong	283 Oct 21 j 10:01	27°  46'34	0°00'49	retrograde	284 Sep 23 j 03:17	20°  42'26'09	
transit middle	283 Oct 21 j 10:01	27°  46'34	0°00'49	evening set	284 Sep 29 j 01:47	17°  42'56'11	
transit begin	283 Oct 21 j 07:17	27°  55'46		min. Earth dist.	284 Oct 03 j 11:37	13°  42'02'21	0.67010 AU
transit end	283 Oct 21 j 12:44	27°  37'22		inferior conj	284 Oct 04 j 14:09	11°  42'36'37	-0°56'31
min. Earth dist.	283 Oct 20 j 18:13	28°  39'51	0.67513 AU	minimum elong	284 Oct 04 j 15:35	11°  42'32'00	0°55'55
asc. node	283 Oct 21 j 10:56	27°  43'27		asc. node	284 Oct 07 j 07:58	8°  42'14'56	
morning rise	283 Oct 26 j 19:44	21°  41'08		morning rise	284 Oct 10 j 05:32	5°  42'38'59	
direct	283 Oct 30 j 16:19	20°  41'16'11		direct	284 Oct 13 j 14:47	4°  42'32'43	
morning max el	283 Nov 07 j 15:48	24°  45'31'10	20°30'07	morning max el	284 Oct 20 j 19:40	8°  42'37'41	19°26'43
	283 Nov 12 j 02:45	0°  0			284 Nov 05 j 09:42	0°  0	
desc. node	283 Nov 29 j 21:51	25°  13'31'00		morning set	284 Nov 13 j 23:30	13°  13'13'27	
	283 Dec 02 j 20:18	0°  0		desc. node	284 Nov 15 j 18:55	16°  13'02'04	
morning set	283 Dec 05 j 23:51	4°  00'51'27			284 Nov 24 j 17:18	0°  0	
max. Earth dist.	283 Dec 15 j 15:25	20°  00'06'03	1.43325 AU	max. Earth dist.	284 Nov 27 j 05:20	3°  42'56'51	1.44534 AU
superior conj	283 Dec 21 j 22:26	0°  00'23'52	-1°54'38	superior conj	284 Nov 30 j 18:08	9°  42'33'53	-1°28'37
minimum elong	283 Dec 21 j 17:37	0°  00'30'49	1°54'22	minimum elong	284 Nov 30 j 09:48	9°  42'00'39	1°27'49
	283 Dec 21 j 16:42	0°  0			284 Dec 13 j 07:08	0°  0	
evening rise	284 Jan 03 j 06:47	21°  00'34'15		evening rise	284 Dec 14 j 23:50	2°  42'34'27	
	284 Jan 08 j 02:14	0°  0			285 Jan 01 j 08:20	0°  0	
asc. node	284 Jan 17 j 10:17	14°  42'53'56		evening max el	285 Jan 03 j 03:43	2°  42'00'48	18°24'27
evening max el	284 Jan 20 j 15:14	18°  42'40'30	18°08'45	asc. node	285 Jan 03 j 07:19	2°  42'09'52	
retrograde	284 Jan 27 j 03:42	22°  42'05'29		retrograde	285 Jan 09 j 16:15	5°  42'34'38	
evening set	284 Jan 29 j 22:50	21°  42'26'54		evening set	285 Jan 12 j 16:17	4°  42'44'52'26	
inferior conj	284 Feb 05 j 06:55	16°  42'17'29	3°49'15		285 Jan 17 j 23:51	30°  42'08'30	
minimum elong	284 Feb 05 j 07:00	16°  42'17'15	3°49'14	inferior conj	285 Jan 18 j 15:01	29°  42'16'40	3°42'23
min. Earth dist.	284 Feb 08 j 03:20	13°  42'21'52	0.62314 AU	minimum elong	285 Jan 18 j 13:26	29°  42'21'13	3°42'13
morning rise	284 Feb 11 j 14:03	10°  42'20'47		min. Earth dist.	285 Jan 20 j 20:19	26°  42'34'56	0.64133 AU
direct	284 Feb 18 j 13:35	7°  42'46'14		morning rise	285 Jan 24 j 10:02	23°  42'31'54	
desc. node	284 Feb 25 j 21:03	10°  42'10'30		direct	285 Jan 31 j 07:55	20°  42'31'57	
morning max el	284 Mar 03 j 13:53	15°  42'38'54	27°47'42	desc. node	285 Feb 11 j 18:07	26°  42'30'73'9	
	284 Mar 15 j 08:12	0°  0		morning max el	285 Feb 13 j 22:24	28°  42'31'11'30	27°29'32
	284 Apr 02 j 07:02	0°  0			285 Feb 15 j 16:17	0°  0	
morning set	284 Apr 06 j 04:08	7°  42'40'13			285 Mar 09 j 02:22	0°  0	
max. Earth dist.	284 Apr 11 j 20:17	19°  42'33'22	1.32675 AU	morning set	285 Mar 20 j 23:16	21°  42'31'38'30	
					285 Mar 25 j 02:33	0°  0	
superior conj	284 Apr 13 j 15:32	23°  42'30'57	-0°07'57	max. Earth dist.	285 Mar 25 j 22:21	1°  42'42'43	1.33429 AU
minimum elong	284 Apr 13 j 15:54	23°  42'30'58'59	0°07'52				
behind sun begin	284 Apr 13 j 11:23	23°  42'30'04'30		superior conj	285 Mar 28 j 21:39	7°  42'30'58'19	-0°34'57
behind sun end	284 Apr 13 j 20:25	23°  42'30'53'29		minimum elong	285 Mar 28 j 23:21	8°  42'30'07'19	0°34'35
asc. node	284 Apr 14 j 09:34	25°  42'30'04'56		asc. node	285 Apr 01 j 06:38	15°  42'30'11'35	
	284 Apr 16 j 15:48	0°  0		evening rise	285 Apr 05 j 02:19	23°  42'30'19'42	
evening rise	284 Apr 20 j 14:53	8°  42'31'20			285 Apr 08 j 08:04	0°  0	
	284 May 01 j 19:50	0°  0		evening max el	285 Apr 26 j 21:25	28°  42'30'22'52	22°32'53
evening max el	284 May 15 j 05:46	17°  42'30'11'49'15	24°08'26		285 Apr 28 j 16:20	0°  0	
desc. node	284 May 23 j 20:18	23°  42'30'11'44'35		retrograde	285 May 09 j 23:23	4°  42'30'11'50'39	
retrograde	284 May 29 j 01:58	24°  42'30'11'46'59		desc. node	285 May 10 j 17:20	4°  42'30'11'49'23	
evening set	284 Jun 02 j 12:29	24°  42'30'11'03'16		evening set	285 May 13 j 01:05	4°  42'30'11'29'56	
min. Earth dist.	284 Jun 08 j 16:58	21°  42'30'11'02'08	0.56505 AU	min. Earth dist.	285 May 21 j 05:16	0°  42'30'11'57'21	0.55313 AU
inferior conj	284 Jun 11 j 05:52	19°  42'30'11'02'20	-4°20'08	inferior conj	285 May 22 j 08:59	0°  42'30'11'17'58	-3°07'57
minimum elong	284 Jun 11 j 00:23	19°  42'30'11'35'54	4°19'16	minimum elong	285 May 22 j 01:41	0°  42'30'11'28'21	3°05'53
morning rise	284 Jun 19 j 15:04	15°  42'30'11'26'06			285 May 22 j 21:38	30°  42'30'11'08'38	
direct	284 Jun 22 j 06:25	15°  42'30'11'07'42		morning rise	285 May 31 j 04:22	26°  42'30'11'08'24'42	
morning max el	284 Jul 01 j 23:44	19°  42'30'11'38'15	19°43'03	direct	285 Jun 03 j 00:27	26°  42'30'11'08'06'13	
	284 Jul 10 j 01:30	0°  0			285 Jun 12 j 18:23	0°  0	
asc. node	284 Jul 11 j 08:46	2°  42'30'08'58		morning max el	285 Jun 14 j 08:57	1°  42'30'11'23'14	21°00'39
morning set	284 Jul 19 j 15:48	17° 42'30'08'48'29		asc. node	285 Jun 28 j 05:50	21° 42'30'11'22'32	
	284 Jul 25 j 16:31	0° 0			285 Jul 02 j 17:35	0° 0	
				morning set	285 Jul 03 j 23:04	2° 42'30'08'30'49	

superior conj	285 Jul 11 j 10:15	18°☿01'48	1°41'51	superior conj	286 Jun 25 j 13:41	2°☿38'45	1°30'48
minimum elong	285 Jul 11 j 08:39	17°☿53'33	1°41'46	minimum elong	286 Jun 25 j 11:22	2°☿26'26	1°30'33
max. Earth dist.	285 Jul 15 j 19:11	26°☿51'56	1.35584 AU	max. Earth dist.	286 Jun 28 j 13:31	8°☿55'35	1.34188 AU
	285 Jul 17 j 09:33	0°♌		evening rise	286 Jul 03 j 09:55	18°☿43'04	
evening rise	285 Jul 20 j 00:17	4°♌59'59			286 Jul 09 j 09:49	0°♌	
	285 Aug 03 j 14:41	0°♍		desc. node	286 Jul 24 j 13:40	24°♌19'46	
desc. node	285 Aug 06 j 16:40	4°♍40'12			286 Jul 28 j 18:27	0°♍	
evening max el	285 Aug 24 j 13:21	27°♍05'42	26°28'53	evening max el	286 Aug 07 j 01:08	10°♍32'23	27°10'43
	285 Aug 27 j 19:49	0°♎		retrograde	286 Aug 20 j 09:27	17°♍51'26	
retrograde	285 Sep 06 j 09:02	4°♎17'58		evening set	286 Aug 27 j 08:51	15°♍05'51	
evening set	285 Sep 12 j 21:27	1°♎36'18		min. Earth dist.	286 Aug 31 j 04:13	11°♍25'53	0.64963 AU
	285 Sep 14 j 14:35	30°♏♍		inferior conj	286 Sep 02 j 07:18	9°♍03'31	-2°48'14
min. Earth dist.	285 Sep 16 j 23:41	27°♍19'31	0.66167 AU	minimum elong	286 Sep 02 j 11:28	8°♍51'52	2°46'48
inferior conj	285 Sep 18 j 13:58	25°♍23'31	-1°53'02	morning rise	286 Sep 08 j 14:52	3°♍30'59	
minimum elong	285 Sep 18 j 16:52	25°♍14'44	1°51'54	direct	286 Sep 11 j 08:06	2°♍51'40	
asc. node	285 Sep 24 j 05:01	19°♍48'12		asc. node	286 Sep 11 j 02:05	2°♍52'01	
morning rise	285 Sep 24 j 12:43	19°♍36'51		morning max el	286 Sep 17 j 20:30	6°♍21'44	18°07'19
direct	285 Sep 27 j 12:47	18°♍45'51			286 Oct 03 j 18:15	0°♎	
morning max el	285 Oct 04 j 06:01	22°♍28'47	18°38'44	morning set	286 Oct 05 j 23:07	3°♎40'13	
	285 Oct 10 j 06:24	0°♎					
morning set	285 Oct 24 j 20:57	22°♎44'34		superior conj	286 Oct 20 j 01:24	26°♎40'27	0°03'12
	285 Oct 29 j 10:25	0°♏		minimum elong	286 Oct 20 j 01:47	26°♎42'01	0°03'10
desc. node	285 Nov 02 j 15:57	6°♏41'43		behind sun begin	286 Oct 19 j 15:11	25°♎59'40	
				behind sun end	286 Oct 20 j 12:24	27°♎24'18	
superior conj	285 Nov 09 j 20:11	17°♏59'35	-0°46'04	desc. node	286 Oct 20 j 12:57	27°♎26'30	
minimum elong	285 Nov 09 j 14:17	17°♏36'22	0°45'19		286 Oct 22 j 03:36	0°♏	
max. Earth dist.	285 Nov 09 j 23:33	18°♏12'47	1.45043 AU	max. Earth dist.	286 Oct 23 j 18:14	2°♏32'49	1.44809 AU
	285 Nov 17 j 11:14	0°♐		evening rise	286 Nov 05 j 12:50	22°♏29'33	
evening rise	285 Nov 25 j 17:26	13°♐06'07			286 Nov 10 j 09:26	0°♐	
greatest brilliancy	285 Dec 03 j 18:27	25°♐55'18	-0.8m	greatest brilliancy	286 Nov 18 j 16:24	12°♐38'02	-0.7m
	285 Dec 06 j 08:42	0°♑		evening max el	286 Nov 30 j 20:32	28°♐54'11	19°47'58
evening max el	285 Dec 17 j 14:11	15°♑26'36	18°58'02		286 Dec 01 j 23:21	0°♑	
asc. node	285 Dec 21 j 04:20	18°♑22'09		retrograde	286 Dec 08 j 08:00	3°♑15'53	
retrograde	285 Dec 24 j 10:44	19°♑19'59		asc. node	286 Dec 08 j 01:21	3°♑15'27	
evening set	285 Dec 27 j 16:39	18°♑19'05		evening set	286 Dec 11 j 21:25	2°♑01'43	
inferior conj	286 Jan 02 j 08:47	12°♑33'17	3°20'53		286 Dec 14 j 03:55	30°♒♐	
minimum elong	286 Jan 02 j 06:16	12°♑41'08	3°20'23	inferior conj	286 Dec 17 j 09:11	26°♐01'50	2°48'35
min. Earth dist.	286 Jan 03 j 22:48	10°♑34'42	0.65580 AU	minimum elong	286 Dec 17 j 06:25	26°♐11'00	2°47'48
morning rise	286 Jan 07 j 19:36	6°♑23'25		min. Earth dist.	286 Dec 18 j 09:18	24°♐42'02	0.66637 AU
direct	286 Jan 14 j 08:47	3°♑32'35		morning rise	286 Dec 22 j 15:12	19°♐49'04	
morning max el	286 Jan 27 j 08:15	11°♑09'28	26°40'17	direct	286 Dec 28 j 15:29	17°♐08'52	
desc. node	286 Jan 29 j 15:10	13°♑33'51		morning max el	287 Jan 09 j 17:19	24°♐19'45	25°28'08
	286 Feb 11 j 08:54	0°♒			287 Jan 14 j 20:03	0°♑	
	286 Mar 01 j 15:10	0°♓		desc. node	287 Jan 16 j 12:11	2°♑02'38	
morning set	286 Mar 04 j 07:22	4°♓59'52			287 Feb 04 j 19:14	0°♒	
max. Earth dist.	286 Mar 08 j 13:56	13°♓18'54	1.34626 AU	morning set	287 Feb 14 j 23:41	17°♒29'42	
				max. Earth dist.	287 Feb 18 j 17:38	24°♒25'57	1.36269 AU
					287 Feb 21 j 15:22	0°♓	
superior conj	286 Mar 12 j 22:01	22°♓07'48	-1°01'39				
minimum elong	286 Mar 13 j 00:57	22°♓23'03	1°01'07				
	286 Mar 16 j 16:29	0°♔		superior conj	287 Feb 24 j 13:47	5°♓46'33	-1°26'27
asc. node	286 Mar 19 j 03:41	5°♔10'19		minimum elong	287 Feb 24 j 17:35	6°♓05'32	1°25'56
evening rise	286 Mar 20 j 11:37	7°♔56'28		evening rise	287 Mar 04 j 16:35	22°♓14'00	
	286 Apr 01 j 10:28	0°♕		asc. node	287 Mar 06 j 00:42	24°♓55'47	
evening max el	286 Apr 08 j 20:28	9°♕14'50	21°04'05		287 Mar 08 j 14:25	0°♔	
retrograde	286 Apr 20 j 13:09	14°♕55'20		evening max el	287 Mar 22 j 06:39	20°♔42'13	19°50'43
evening set	286 Apr 22 j 19:17	14°♕43'25		retrograde	287 Apr 01 j 06:06	25°♔29'44	
desc. node	286 Apr 27 j 14:22	13°♕08'47		evening set	287 Apr 03 j 08:19	25°♔18'01	
inferior conj	286 May 02 j 03:16	10°♕44'42	-1°18'00	inferior conj	287 Apr 12 j 03:00	21°♔16'46	0°40'01
minimum elong	286 May 01 j 23:35	10°♕49'55	1°16'42	minimum elong	287 Apr 12 j 04:43	21°♔14'06	0°39'25
min. Earth dist.	286 May 02 j 18:05	10°♕23'46	0.54988 AU	desc. node	287 Apr 14 j 11:24	19°♔50'09	
morning rise	286 May 11 j 03:51	6°♕41'04		min. Earth dist.	287 Apr 14 j 08:18	19°♔54'49	0.55623 AU
direct	286 May 14 j 10:29	6°♕17'52		morning rise	287 Apr 20 j 22:47	16°♔44'57	
morning max el	286 May 27 j 07:47	12°♕27'21	22°34'32	direct	287 Apr 25 j 02:20	16°♔06'50	
	286 Jun 09 j 09:20	0°♖		morning max el	287 May 08 j 23:48	23°♔02'24	24°15'40
asc. node	286 Jun 15 j 02:55	10°♖42'12			287 May 15 j 04:44	0°♕	
morning set	286 Jun 18 j 09:32	17°♖24'11		asc. node	287 Jun 01 j 23:58	0°♖29'56	
	286 Jun 24 j 07:49	0°♗			287 Jun 01 j 18:12	0°♖	

morning set	287 Jun 02 j 21:22	2°♄21'58		morning set	288 May 17 j 08:58	17°♄18'48	
				asc. node	288 May 18 j 21:00	20°♄30'10	
superior conj	287 Jun 09 j 21:54	17°♄29'39	1°14'55		288 May 23 j 05:53	0°♄	
minimum elong	287 Jun 09 j 19:26	17°♄16'17	1°14'32				
max. Earth dist.	287 Jun 11 j 16:44	21°♄20'28	1.33182 AU	superior conj	288 May 24 j 08:47	2°♄27'28	0°55'10
	287 Jun 15 j 19:21	0°♄		minimum elong	288 May 24 j 06:40	2°♄15'49	0°54'45
evening rise	287 Jun 17 j 06:11	2°♄57'58		max. Earth dist.	288 May 25 j 02:26	4°♄04'03	1.32564 AU
	287 Jul 02 j 05:07	0°♄		evening rise	288 May 31 j 09:51	17°♄34'29	
desc. node	287 Jul 11 j 10:41	13°♄21'43			288 Jun 06 j 16:31	0°♄	
evening max el	287 Jul 20 j 11:31	23°♄38'07	27°25'34		288 Jun 26 j 01:07	0°♄	
	287 Jul 29 j 13:39	0°♄		desc. node	288 Jun 27 j 07:44	1°♄30'02	
retrograde	287 Aug 03 j 04:03	0°♄57'34		evening max el	288 Jul 01 j 18:10	6°♄10'12	27°08'31
	287 Aug 07 j 12:41	30°♄♄		retrograde	288 Jul 15 j 15:43	13°♄26'43	
evening set	287 Aug 10 j 08:50	28°♄19'39		evening set	288 Jul 22 j 17:19	11°♄10'11	
min. Earth dist.	287 Aug 13 j 23:26	25°♄12'17	0.63394 AU	min. Earth dist.	288 Jul 26 j 08:24	8°♄25'33	0.61520 AU
inferior conj	287 Aug 16 j 15:31	22°♄31'12	-3°38'59	inferior conj	288 Jul 29 j 11:29	5°♄38'43	-4°20'24
minimum elong	287 Aug 16 j 20:23	22°♄18'57	3°37'40	minimum elong	288 Jul 29 j 15:47	5°♄29'08	4°19'40
morning rise	287 Aug 23 j 09:05	17°♄15'53		morning rise	288 Aug 05 j 15:50	0°♄43'36	
direct	287 Aug 25 j 22:00	16°♄44'55		direct	288 Aug 08 j 03:01	0°♄18'11	
asc. node	287 Aug 28 j 23:08	17°♄30'18		asc. node	288 Aug 14 j 20:12	3°♄32'14	
morning max el	287 Sep 01 j 12:22	20°♄10'29	17°53'26	morning max el	288 Aug 15 j 02:36	3°♄47'33	17°58'06
	287 Sep 08 j 20:03	0°♄		morning set	288 Aug 31 j 01:02	28°♄52'20	
morning set	287 Sep 18 j 02:32	15°♄48'48			288 Aug 31 j 15:49	0°♄	
	287 Sep 26 j 07:52	0°♄					
superior conj	287 Sep 30 j 04:26	6°♄27'46	0°47'02	superior conj	288 Sep 10 j 10:53	17°♄35'53	1°18'57
minimum elong	287 Sep 30 j 08:52	6°♄46'07	0°46'27	minimum elong	288 Sep 10 j 15:33	17°♄56'15	1°18'27
max. Earth dist.	287 Oct 06 j 10:32	16°♄39'39	1.43879 AU		288 Sep 17 j 18:07	0°♄	
desc. node	287 Oct 07 j 09:58	18°♄13'27		max. Earth dist.	288 Sep 17 j 22:26	0°♄17'51	1.42376 AU
	287 Oct 14 j 21:46	0°♄		desc. node	288 Sep 23 j 07:00	8°♄59'06	
evening rise	287 Oct 15 j 20:14	1°♄26'53		evening rise	288 Sep 24 j 09:12	10°♄43'06	
	287 Nov 04 j 00:55	0°♄			288 Oct 07 j 00:47	0°♄	
evening max el	287 Nov 13 j 21:33	12°♄22'49	20°51'49	evening max el	288 Oct 26 j 16:55	25°♄52'11	22°06'03
retrograde	287 Nov 22 j 05:38	17°♄19'05			288 Oct 31 j 15:55	0°♄	
asc. node	287 Nov 24 j 22:23	16°♄37'56		retrograde	288 Nov 05 j 01:45	1°♄26'25	
evening set	287 Nov 26 j 04:32	15°♄49'51			288 Nov 09 j 01:58	30°♄♄	
inferior conj	287 Dec 01 j 13:48	9°♄39'08	2°08'10	evening set	288 Nov 09 j 12:14	29°♄40'14	
minimum elong	287 Dec 01 j 11:19	9°♄47'39	2°07'18	asc. node	288 Nov 10 j 19:26	28°♄28'21	
min. Earth dist.	287 Dec 02 j 01:36	8°♄58'43	0.67321 AU	inferior conj	288 Nov 14 j 20:34	23°♄22'09	1°21'32
morning rise	287 Dec 06 j 17:53	3°♄25'35		minimum elong	288 Nov 14 j 18:48	23°♄28'17	1°20'50
direct	287 Dec 12 j 03:24	1°♄03'44		min. Earth dist.	288 Nov 14 j 21:15	23°♄19'48	0.67658 AU
morning max el	287 Dec 23 j 01:40	7°♄34'59	24°03'07	morning rise	288 Nov 20 j 01:12	17°♄10'02	
desc. node	288 Jan 03 j 09:12	21°♄15'59		direct	288 Nov 24 j 19:36	15°♄10'20	
	288 Jan 09 j 14:05	0°♄		morning max el	288 Dec 04 j 12:00	20°♄54'30	22°35'14
morning set	288 Jan 27 j 18:17	28°♄51'47			288 Dec 12 j 05:45	0°♄	
	288 Jan 28 j 10:04	0°♄		desc. node	288 Dec 20 j 06:14	11°♄00'45	
max. Earth dist.	288 Jan 31 j 13:16	5°♄30'52	1.38268 AU		289 Jan 01 j 20:53	0°♄	
				morning set	289 Jan 07 j 09:09	8°♄50'44	
superior conj	288 Feb 07 j 17:29	18°♄45'42	-1°47'00	max. Earth dist.	289 Jan 12 j 09:10	17°♄11'25	1.40402 AU
minimum elong	288 Feb 07 j 21:14	19°♄03'32	1°46'41		289 Jan 19 j 16:46	0°♄	
	288 Feb 13 j 12:30	0°♄					
evening rise	288 Feb 16 j 14:49	6°♄05'49		superior conj	289 Jan 20 j 04:30	0°♄52'59	-2°00'01
asc. node	288 Feb 20 j 21:43	14°♄22'57		minimum elong	289 Jan 20 j 06:32	1°♄02'07	1°59'56
	288 Mar 01 j 14:30	0°♄		evening rise	289 Jan 30 j 03:14	19°♄23'59	
evening max el	288 Mar 04 j 03:42	2°♄48'03	18°56'31		289 Feb 04 j 20:08	0°♄	
retrograde	288 Mar 12 j 13:37	6°♄51'56		asc. node	289 Feb 06 j 18:46	3°♄25'08	
evening set	288 Mar 14 j 20:02	6°♄35'27		evening max el	289 Feb 15 j 08:55	15°♄25'13	18°22'25
inferior conj	288 Mar 22 j 19:47	2°♄19'15	2°15'21	retrograde	289 Feb 22 j 16:16	19°♄02'00	
minimum elong	288 Mar 23 j 00:03	2°♄11'41	2°14'10	evening set	289 Feb 25 j 04:05	18°♄37'55	
min. Earth dist.	288 Mar 26 j 00:23	0°♄04'05	0.57079 AU	inferior conj	289 Mar 04 j 09:42	14°♄01'12	3°15'53
	288 Mar 26 j 02:48	30°♄♄		minimum elong	289 Mar 04 j 13:10	13°♄53'58	3°15'15
morning rise	288 Mar 31 j 01:00	27°♄14'23		min. Earth dist.	289 Mar 07 j 20:07	11°♄11'22	0.59035 AU
desc. node	288 Mar 31 j 08:25	27°♄06'57		morning rise	289 Mar 11 j 19:50	8°♄29'23	
direct	288 Apr 05 j 07:38	26°♄07'49		direct	289 Mar 18 j 01:54	6°♄45'55	
	288 Apr 15 j 10:21	0°♄		desc. node	289 Mar 18 j 05:26	6°♄45'58	
morning max el	288 Apr 19 j 14:41	3°♄33'22	25°50'02	morning max el	289 Apr 01 j 09:47	14°♄27'40	27°02'35
	288 May 08 j 12:54	0°♄			289 Apr 13 j 21:03	0°♄	
					289 Apr 30 j 17:47	0°♄	

morning set	289 May 01 j 18:42	2°♄09'12			290 Apr 07 j 08:12	0°♄	
asc. node	289 May 05 j 18:04	10°♄38'15		morning set	290 Apr 16 j 00:37	16°♄45'45	
				max. Earth dist.	290 Apr 22 j 02:55	29°♄42'38	1.32430 AU
superior conj	289 May 08 j 20:36	17°♄26'09	0°32'22		290 Apr 22 j 06:06	0°♄	
minimum elong	289 May 08 j 19:12	17°♄18'31	0°32'04	asc. node	290 Apr 22 j 15:06	0°♄49'02	
max. Earth dist.	289 May 08 j 15:10	16°♄56'17	1.32313 AU				
	289 May 14 j 15:07	0°♄		superior conj	290 Apr 23 j 07:33	2°♄18'50	0°07'16
evening rise	289 May 15 j 18:20	2°♄24'07		minimum elong	290 Apr 23 j 07:13	2°♄17'00	0°07'12
	289 May 30 j 16:27	0°♄		behind sun begin	290 Apr 23 j 02:40	1°♄52'09	
evening max el	289 Jun 13 j 18:41	17°♄58'46	26°18'34	behind sun end	290 Apr 23 j 11:46	2°♄41'52	
desc. node	289 Jun 14 j 04:45	18°♄22'30		evening rise	290 Apr 30 j 05:24	17°♄18'19	
retrograde	289 Jun 27 j 18:58	25°♄11'44			290 May 06 j 12:21	0°♄	
evening set	289 Jul 04 j 05:43	23°♄28'48		evening max el	290 May 26 j 12:13	29°♄02'15	25°00'59
min. Earth dist.	289 Jul 08 j 07:37	20°♄51'28	0.59473 AU		290 May 27 j 13:03	0°♄	
inferior conj	289 Jul 11 j 15:39	18°♄16'53	-4°44'43	desc. node	290 Jun 01 j 01:48	3°♄27'39	
minimum elong	289 Jul 11 j 17:24	18°♄13'29	4°44'38	retrograde	290 Jun 09 j 12:04	6°♄09'06	
morning rise	289 Jul 19 j 07:10	13°♄44'16		evening set	290 Jun 14 j 18:55	5°♄05'00	
direct	289 Jul 21 j 18:58	13°♄22'27		min. Earth dist.	290 Jun 19 j 23:44	2°♄16'59	0.57490 AU
morning max el	289 Jul 29 j 12:14	17°♄05'17	18°22'28	inferior conj	290 Jun 23 j 00:37	0°♄14'58	-4°40'35
asc. node	289 Aug 01 j 17:16	20°♄42'53		minimum elong	290 Jun 22 j 21:50	0°♄19'40	4°40'23
	289 Aug 07 j 17:46	0°♄			290 Jun 23 j 09:31	30°♄	
morning set	289 Aug 14 j 13:18	12°♄36'26		morning rise	290 Jul 01 j 03:28	26°♄04'16	
				direct	290 Jul 03 j 17:15	25°♄44'57	
superior conj	289 Aug 23 j 17:31	29°♄56'23	1°38'07	morning max el	290 Jul 12 j 14:12	29°♄53'38	19°07'36
minimum elong	289 Aug 23 j 20:26	0°♄09'46	1°37'56		290 Jul 12 j 16:55	0°♄	
	289 Aug 23 j 18:18	0°♄		asc. node	290 Jul 19 j 14:20	8°♄46'41	
max. Earth dist.	289 Aug 31 j 05:18	13°♄16'33	1.40488 AU	morning set	290 Jul 29 j 11:11	26°♄48'58	
evening rise	289 Sep 04 j 18:20	20°♄56'21			290 Jul 31 j 01:41	0°♄	
desc. node	289 Sep 10 j 04:04	29°♄40'14					
	289 Sep 10 j 09:05	0°♄		superior conj	290 Aug 06 j 18:31	13°♄12'02	1°46'17
	289 Oct 01 j 04:53	0°♄		minimum elong	290 Aug 06 j 19:19	13°♄15'54	1°46'16
evening max el	289 Oct 09 j 07:38	9°♄24'04	23°25'37	max. Earth dist.	290 Aug 13 j 08:35	25°♄32'23	1.38459 AU
retrograde	289 Oct 19 j 19:03	15°♄35'35			290 Aug 15 j 20:25	0°♄	
evening set	289 Oct 24 j 18:52	13°♄31'28		evening rise	290 Aug 17 j 04:07	2°♄18'53	
asc. node	289 Oct 28 j 16:28	9°♄09'09		desc. node	290 Aug 28 j 01:07	20°♄12'03	
min. Earth dist.	289 Oct 29 j 17:51	7°♄43'19	0.67666 AU		290 Sep 03 j 13:47	0°♄	
inferior conj	289 Oct 30 j 03:42	7°♄09'36	0°30'16	evening max el	290 Sep 21 j 19:39	22°♄59'01	24°44'26
minimum elong	289 Oct 30 j 02:59	7°♄12'02	0°29'58	retrograde	290 Oct 03 j 08:35	29°♄42'33	
morning rise	289 Nov 04 j 11:02	1°♄01'11		evening set	290 Oct 08 j 22:47	27°♄21'04	
	289 Nov 06 j 01:51	30°♄		min. Earth dist.	290 Oct 13 j 13:05	22°♄06'58	0.67344 AU
direct	289 Nov 08 j 15:09	29°♄24'08		inferior conj	290 Oct 14 j 09:27	20°♄59'21	-0°24'14
	289 Nov 11 j 08:03	0°♄		minimum elong	290 Oct 14 j 10:03	20°♄57'22	0°23'59
morning max el	289 Nov 17 j 04:01	4°♄23'08	21°12'45	asc. node	290 Oct 15 j 13:31	19°♄27'16	
	289 Dec 06 j 08:55	0°♄		morning rise	290 Oct 19 j 21:24	14°♄57'06	
desc. node	289 Dec 07 j 03:16	1°♄08'24		direct	290 Oct 23 j 12:51	13°♄40'41	
morning set	289 Dec 17 j 19:53	17°♄31'16		morning max el	290 Oct 31 j 03:39	18°♄02'46	20°01'22
max. Earth dist.	289 Dec 25 j 11:47	29°♄48'30	1.42375 AU		290 Nov 09 j 14:40	0°♄	
	289 Dec 25 j 14:35	0°♄		desc. node	290 Nov 24 j 00:21	21°♄32'36	
				morning set	290 Nov 26 j 16:23	25°♄39'20	
superior conj	290 Jan 01 j 17:26	11°♄55'34	-2°01'11		290 Nov 29 j 11:37	0°♄	
minimum elong	290 Jan 01 j 15:32	11°♄47'23	2°01'07	max. Earth dist.	290 Dec 07 j 21:51	13°♄16'17	1.43915 AU
	290 Jan 11 j 23:24	0°♄					
evening rise	290 Jan 13 j 02:10	2°♄00'47		superior conj	290 Dec 13 j 04:01	21°♄45'10	-1°45'53
asc. node	290 Jan 24 j 15:48	21°♄54'19		minimum elong	290 Dec 12 j 21:13	21°♄17'28	1°45'24
evening max el	290 Jan 29 j 19:13	28°♄24'48	18°08'08		290 Dec 18 j 04:01	0°♄	
	290 Jan 31 j 15:03	0°♄		evening rise	290 Dec 26 j 07:25	13°♄48'22	
retrograde	290 Feb 05 j 11:42	1°♄50'23			291 Jan 04 j 20:35	0°♄	
evening set	290 Feb 08 j 04:12	1°♄17'22		asc. node	291 Jan 11 j 12:50	9°♄40'46	
	290 Feb 10 j 12:13	30°♄		evening max el	291 Jan 13 j 07:39	11°♄39'27	18°13'09
inferior conj	290 Feb 14 j 19:03	26°♄19'23	3°44'26	retrograde	291 Jan 19 j 19:18	15°♄07'13	
minimum elong	290 Feb 14 j 20:23	26°♄16'12	3°44'20	evening set	291 Jan 22 j 16:19	14°♄24'21	
min. Earth dist.	290 Feb 17 j 22:35	23°♄19'11	0.61140 AU	inferior conj	291 Jan 28 j 20:02	9°♄06'23	3°48'27
morning rise	290 Feb 21 j 11:00	20°♄29'25		minimum elong	291 Jan 28 j 19:20	9°♄08'18	3°48'25
direct	290 Feb 28 j 07:01	18°♄10'51		min. Earth dist.	291 Jan 31 j 10:11	6°♄18'29	0.63119 AU
desc. node	290 Mar 05 j 02:29	19°♄13'16		morning rise	291 Feb 03 j 21:28	3°♄05'27	
morning max el	290 Mar 14 j 11:21	26°♄01'24	27°42'04	direct	291 Feb 10 j 21:09	0°♄22'32	
	290 Mar 18 j 04:34	0°♄		desc. node	291 Feb 19 j 23:30	4°♄04'30	

morning max el	291 Feb 24 j 18:14	8° \approx 15'41	27°44'20		292 Feb 14 j 23:12	0° \approx	
	291 Mar 13 j 13:09	0° H			292 Mar 05 j 15:46	0° H	
	291 Mar 30 j 12:19	0° Y		morning set	292 Mar 13 j 15:22	14° H 44'43	
morning set	291 Mar 31 j 00:30	1° Y 00'55		max. Earth dist.	292 Mar 18 j 07:10	24° H 02'29	1.33877 AU
max. Earth dist.	291 Apr 05 j 09:34	12° Y 08'37	1.32937 AU		292 Mar 21 j 04:12	0° Y	
superior conj	291 Apr 07 j 15:59	16° Y 59'53	-0°19'21	superior conj	292 Mar 21 j 19:55	1° Y 22'32	-0°46'24
minimum elong	291 Apr 07 j 16:55	17° Y 04'52	0°19'08	minimum elong	292 Mar 21 j 22:10	1° Y 34'21	0°45'57
asc. node	291 Apr 09 j 12:10	20° Y 58'32		asc. node	292 Mar 26 j 09:12	11° Y 02'08	
	291 Apr 13 j 16:37	0° B		evening rise	292 Mar 29 j 03:54	16° Y 54'08	
evening rise	291 Apr 14 j 17:12	2° B 10'32			292 Apr 04 j 17:46	0° B	
	291 Apr 30 j 02:05	0° II		evening max el	292 Apr 18 j 20:34	20° B 16'20	21°53'43
evening max el	291 May 08 j 02:29	9° II 38'11	23°27'47	retrograde	292 May 01 j 10:19	26° B 25'34	
desc. node	291 May 18 j 22:47	16° II 09'03		evening set	292 May 04 j 01:19	26° B 10'12	
retrograde	291 May 21 j 17:10	16° II 26'28		desc. node	292 May 04 j 19:46	26° B 00'09	
evening set	291 May 25 j 12:42	15° II 54'27		inferior conj	292 May 13 j 11:16	22° B 06'00	-2°24'34
min. Earth dist.	291 Jun 01 j 12:47	12° II 41'16	0.55904 AU	minimum elong	292 May 13 j 04:55	22° B 14'55	2°22'31
inferior conj	291 Jun 03 j 13:31	11° II 28'45	-3°55'14	min. Earth dist.	292 May 13 j 01:27	22° B 19'47	0.55052 AU
minimum elong	291 Jun 03 j 06:39	11° II 39'01	3°53'44	morning rise	292 May 22 j 09:42	18° B 10'22	
morning rise	291 Jun 12 j 03:23	7° II 32'54		direct	292 May 25 j 09:07	17° B 50'43	
direct	291 Jun 14 j 20:05	7° II 14'59		morning max el	292 Jun 06 j 10:32	23° B 30'50	21°39'01
morning max el	291 Jun 25 j 06:00	12° II 03'56	20°13'42		292 Jun 12 j 03:57	0° II	
asc. node	291 Jul 06 j 11:24	27° II 31'27		asc. node	292 Jun 22 j 08:28	16° II 47'09	
	291 Jul 07 j 20:13	0° E		morning set	292 Jun 27 j 00:31	26° II 09'54	
morning set	291 Jul 13 j 15:41	11° E 22'12			292 Jun 28 j 20:34	0° E	
superior conj	291 Jul 21 j 08:46	27° E 08'07	1°45'34	superior conj	292 Jul 04 j 08:17	11° E 32'59	1°37'50
minimum elong	291 Jul 21 j 07:52	27° E 03'34	1°45'32	minimum elong	292 Jul 04 j 06:17	11° E 22'38	1°37'40
	291 Jul 22 j 19:04	0° O		max. Earth dist.	292 Jul 08 j 02:25	19° E 16'24	1.34941 AU
max. Earth dist.	291 Jul 26 j 13:36	7° O 22'42	1.36551 AU	evening rise	292 Jul 12 j 13:55	28° E 05'48	
evening rise	291 Jul 30 j 12:14	14° O 46'09			292 Jul 13 j 13:54	0° O	
	291 Aug 08 j 06:43	0° np		desc. node	292 Jul 31 j 19:08	0° np 25'26	
desc. node	291 Aug 14 j 22:09	10° np 29'18			292 Jul 31 j 12:10	0° np	
	291 Aug 29 j 05:45	0° u		evening max el	292 Aug 16 j 19:13	20° np 10'46	26°49'41
evening max el	291 Sep 04 j 07:09	6° u 36'08	25°55'05	retrograde	292 Aug 29 j 21:12	27° np 27'03	
retrograde	291 Sep 16 j 17:32	13° u 41'40		evening set	292 Sep 05 j 14:35	24° np 42'50	
evening set	291 Sep 22 j 22:05	11° u 05'53		min. Earth dist.	292 Sep 09 j 13:50	20° np 41'36	0.65696 AU
min. Earth dist.	291 Sep 27 j 04:32	6° u 27'38	0.66691 AU	inferior conj	292 Sep 11 j 09:23	18° np 33'52	-2°16'48
inferior conj	291 Sep 28 j 12:00	4° u 48'26	-1°20'33	minimum elong	292 Sep 11 j 12:52	18° np 23'39	2°15'28
minimum elong	291 Sep 28 j 14:03	4° u 41'56	1°19'42	morning rise	292 Sep 17 j 11:41	12° np 52'31	
asc. node	291 Oct 02 j 10:34	0° u 19'32		asc. node	292 Sep 18 j 07:38	12° np 30'00	
	291 Oct 02 j 19:19	30° Rnp		direct	292 Sep 20 j 08:30	12° np 06'56	
morning rise	291 Oct 04 j 06:20	28° np 55'05		morning max el	292 Sep 26 j 22:56	15° np 43'38	18°23'12
direct	291 Oct 07 j 11:16	27° np 55'58			292 Oct 07 j 08:25	0° u	
	291 Oct 12 j 09:30	0° u		morning set	292 Oct 16 j 09:04	14° u 33'32	
morning max el	291 Oct 14 j 10:32	1° u 50'45	19°04'16		292 Oct 25 j 23:32	0° ml	
	291 Nov 03 j 03:30	0° ml		desc. node	292 Oct 27 j 18:26	2° ml 50'26	
morning set	291 Nov 05 j 23:19	4° ml 25'23					
desc. node	291 Nov 10 j 21:24	12° ml 07'49		superior conj	292 Oct 31 j 14:57	8° ml 56'02	-0°25'13
max. Earth dist.	291 Nov 20 j 13:23	27° ml 18'02	1.44835 AU	minimum elong	292 Oct 31 j 11:38	8° ml 42'59	0°24'47
	291 Nov 22 j 06:28	0° x		max. Earth dist.	292 Nov 02 j 08:03	11° ml 37'49	1.45038 AU
superior conj	291 Nov 22 j 14:18	0° x 30'56	-1°12'10		292 Nov 14 j 01:08	0° x	
minimum elong	291 Nov 22 j 06:10	29° ml 58'51	1°11'16	evening rise	292 Nov 16 j 22:14	4° x 31'10	
evening rise	291 Dec 07 j 14:41	24° x 38'41		greatest brilliancy	292 Nov 27 j 11:03	21° x 00'08	-0.8m
	291 Dec 10 j 21:11	0° Z			292 Dec 03 j 11:16	0° Z	
evening max el	291 Dec 27 j 19:32	25° Z 02'35	18°36'39	evening max el	292 Dec 10 j 04:34	8° Z 30'09	19°17'25
asc. node	291 Dec 29 j 09:52	26° Z 31'32		asc. node	292 Dec 15 j 06:53	12° Z 12'22	
retrograde	292 Jan 03 j 10:43	28° Z 43'41		retrograde	292 Dec 17 j 06:35	12° Z 34'13	
evening set	292 Jan 06 j 13:00	27° Z 49'51		evening set	292 Dec 20 j 15:30	11° Z 27'54	
inferior conj	292 Jan 12 j 08:39	22° Z 13'45	3°34'45	inferior conj	292 Dec 26 j 05:34	5° Z 35'59	3°08'16
minimum elong	292 Jan 12 j 06:35	22° Z 19'56	3°34'28	minimum elong	292 Dec 26 j 02:52	5° Z 44'39	3°07'38
min. Earth dist.	292 Jan 14 j 07:27	19° Z 54'15	0.64796 AU	min. Earth dist.	292 Dec 27 j 13:31	3° Z 53'32	0.66088 AU
morning rise	292 Jan 17 j 23:42	16° Z 06'23			292 Dec 30 j 22:55	30° Rz	
direct	292 Jan 24 j 18:37	13° Z 14'02		morning rise	292 Dec 31 j 13:59	29° x 24'49	
desc. node	292 Feb 06 j 20:33	20° Z 43'02		direct	293 Jan 06 j 22:12	26° x 37'06	
morning max el	292 Feb 07 j 03:33	21° Z 00'26	27°11'52		293 Jan 14 j 23:10	0° Z	
				morning max el	293 Jan 19 j 12:57	4° Z 04'11	26°11'38

desc. node	293 Jan 23 j 17:36	8°  38'31	direct	293 Dec 21 j 07:07	10°  22'39		
	293 Feb 08 j 08:33	0° 	morning max el	294 Jan 01 j 21:32	17°  17'13	24°52'54	
morning set	293 Feb 24 j 17:19	27°  45'36	desc. node	294 Jan 10 j 14:39	27°  28'19		
	293 Feb 25 j 21:58	0° 		294 Jan 12 j 12:42	0° 		
max. Earth dist.	293 Feb 28 j 17:18	5°  22'59	1.35277 AU	294 Feb 01 j 08:40	0° 		
			morning set	294 Feb 07 j 01:13	9°  48'57		
superior conj	293 Mar 05 j 16:59	15°  20'01	-1°12'33	max. Earth dist.	294 Feb 10 j 17:09	16°  26'53	1.37092 AU
minimum elong	293 Mar 05 j 20:22	15°  37'17	1°12'00				
	293 Mar 12 j 19:25	0° 		superior conj	294 Feb 17 j 04:09	28°  43'50	-1°35'52
evening rise	293 Mar 13 j 11:36	1°  23'17		minimum elong	294 Feb 17 j 08:05	29°  03'06	1°35'25
asc. node	293 Mar 13 j 06:14	0°  55'42			294 Feb 17 j 19:41	0° 	
	293 Mar 30 j 16:00	0° 		evening rise	294 Feb 25 j 14:06	15°  31'36	
evening max el	293 Apr 01 j 00:15	1°  22'17	20°30'38	asc. node	294 Feb 28 j 03:15	20°  34'37	
retrograde	293 Apr 11 j 23:15	6°  39'13			294 Mar 05 j 04:28	0° 	
evening set	293 Apr 14 j 02:22	6°  28'05		evening max el	294 Mar 14 j 15:17	13°  06'50	19°25'09
desc. node	293 Apr 21 j 16:47	3°  23'49		retrograde	294 Mar 23 j 21:37	17°  34'13	
inferior conj	293 Apr 23 j 05:57	2°  30'32	-0°26'44	evening set	294 Mar 26 j 01:15	17°  20'51	
minimum elong	293 Apr 23 j 04:42	2°  32'21	0°26'17	inferior conj	294 Apr 03 j 12:01	13°  13'53	1°24'27
min. Earth dist.	293 Apr 24 j 14:38	1°  43'13	0.55145 AU	minimum elong	294 Apr 03 j 15:18	13°  08'31	1°23'23
	293 Apr 27 j 18:39	30°  16'42		min. Earth dist.	294 Apr 06 j 05:14	11°  28'02	0.56158 AU
morning rise	293 May 02 j 05:52	28°  16'42		desc. node	294 Apr 08 j 13:49	10°  03'59	
direct	293 May 05 j 20:33	27°  48'27		morning rise	294 Apr 12 j 02:37	8°  28'09	
	293 May 13 j 12:46	0° 		direct	294 Apr 16 j 17:24	7°  39'43	
morning max el	293 May 19 j 05:34	4°  18'57	23°17'32	morning max el	294 Apr 30 j 20:24	14°  49'16	24°57'43
	293 Jun 05 j 23:28	0° 			294 May 12 j 21:09	0° 	
asc. node	293 Jun 09 j 05:30	6°  25'11		morning set	294 May 26 j 23:44	26°  04'26	
morning set	293 Jun 11 j 11:45	11°  05'44		asc. node	294 May 27 j 02:33	26°  19'20	
					294 May 28 j 20:00	0° 	
superior conj	293 Jun 18 j 13:59	26°  22'28	1°24'35				
minimum elong	293 Jun 18 j 11:32	26°  03'21	1°24'16	superior conj	294 Jun 02 j 23:35	11°  22'26	1°06'57
	293 Jun 20 j 07:56	0° 		minimum elong	294 Jun 02 j 21:13	10°  28'28	1°06'33
max. Earth dist.	293 Jun 21 j 00:56	1°  29'49	1.33710 AU	max. Earth dist.	294 Jun 04 j 07:31	14°  04'55	1.32872 AU
evening rise	293 Jun 26 j 04:30	12°  03'52		evening rise	294 Jun 10 j 04:19	26°  22'21	
	293 Jul 05 j 20:17	0° 			294 Jun 11 j 21:56	0° 	
desc. node	293 Jul 18 j 16:08	19°  25'04			294 Jun 29 j 05:50	0° 	
	293 Jul 26 j 20:45	0° 		desc. node	294 Jul 05 j 13:09	8°  32'14	
evening max el	293 Jul 30 j 06:53	3°  31'08	27°20'49	evening max el	294 Jul 12 j 15:59	16°  23'59	27°22'20
retrograde	293 Aug 12 j 19:00	10°  50'06		retrograde	294 Jul 26 j 10:32	23°  41'57	
evening set	293 Aug 19 j 21:33	8°  06'32		evening set	294 Aug 02 j 15:27	21°  11'12	
min. Earth dist.	293 Aug 23 j 14:38	4°  41'05	0.64339 AU	min. Earth dist.	294 Aug 06 j 05:18	18°  15'24	0.62634 AU
inferior conj	293 Aug 25 j 23:12	2°  49'54	-3°10'32	inferior conj	294 Aug 09 j 02:36	15°  29'59	-3°58'03
minimum elong	293 Aug 26 j 03:46	1°  57'39	3°09'05	minimum elong	294 Aug 09 j 07:25	15°  18'26	3°56'56
	293 Aug 28 j 01:22	30°  16'42		morning rise	294 Aug 16 j 00:42	10°  23'04	
morning rise	293 Sep 01 j 10:52	26°  24'44'03		direct	294 Aug 18 j 12:41	9°  25'43'39	
direct	293 Sep 04 j 02:03	26°  28'08'31		asc. node	294 Aug 23 j 01:45	11°  30'37	
asc. node	293 Sep 05 j 04:41	26°  28'14'55		morning max el	294 Aug 25 j 05:50	13°  20'22	17°53'09
morning max el	293 Sep 10 j 14:18	29°  35'31	17°59'12		294 Sep 05 j 14:16	0° 	
	293 Sep 10 j 23:52	0° 		morning set	294 Sep 10 j 11:01	8°  37'13	
morning set	293 Sep 27 j 22:46	26°  30'03'08					
	293 Sep 30 j 06:40	0° 		superior conj	294 Sep 21 j 18:34	28°  32'53	1°02'10
				minimum elong	294 Sep 21 j 23:29	28°  43'40	1°01'34
superior conj	293 Oct 11 j 03:50	18°  20'00'47	0°23'01		294 Sep 22 j 17:35	0° 	
minimum elong	293 Oct 11 j 06:26	18°  21'11'20	0°22'39	max. Earth dist.	294 Sep 28 j 17:34	9°  25'42'23	1.43303 AU
desc. node	293 Oct 14 j 15:27	23°  23'36'40		desc. node	294 Oct 01 j 12:29	14°  23'32	
max. Earth dist.	293 Oct 16 j 02:33	25°  25'56'21	1.44503 AU	evening rise	294 Oct 06 j 18:19	22°  23'39'12	
	293 Oct 18 j 16:12	0° 			294 Oct 11 j 12:53	0° 	
evening rise	293 Oct 27 j 10:46	13°  39'28			294 Nov 01 j 13:20	0° 	
	293 Nov 07 j 04:11	0° 		evening max el	294 Nov 06 j 07:21	5°  27'25	21°22'19
greatest brilliancy	293 Nov 10 j 09:35	4°  27'48'15	-0.6m	retrograde	294 Nov 15 j 01:30	10°  27'39'48	
evening max el	293 Nov 23 j 08:51	21° 27'58'46	20°13'36	evening set	294 Nov 19 j 05:09	9° 27'03'19	
retrograde	293 Dec 01 j 04:14	26° 27'34'04		asc. node	294 Nov 19 j 00:58	9° 27'11'20	
asc. node	293 Dec 02 j 03:55	26° 27'28'32		inferior conj	294 Nov 24 j 13:49	2° 27'48'47	1°49'03
evening set	293 Dec 04 j 21:33	25° 27'13'32		minimum elong	294 Nov 24 j 11:35	2° 27'56'28	1°48'13
inferior conj	293 Dec 10 j 08:03	19° 27'08'38	2°32'17	min. Earth dist.	294 Nov 24 j 20:41	2° 27'25'07	0.67506 AU
minimum elong	293 Dec 10 j 05:20	19° 27'17'45	2°31'26		294 Nov 26 j 15:47	30° 16'33'37	
min. Earth dist.	293 Dec 11 j 02:40	18° 27'05'56	0.66980 AU	morning rise	294 Nov 29 j 17:52	26° 27'35'37	
morning rise	293 Dec 15 j 12:57	12° 27'55'34		direct	294 Dec 04 j 20:48	24° 27'23'16	

	294 Dec 14 j 16:29	0°♊		morning max el	295 Nov 27 j 19:00	13°♎58'43	21°59'06
morning max el	294 Dec 15 j 06:32	0°♊34'53	23°25'33		295 Dec 10 j 13:45	0°♊	
desc. node	294 Dec 28 j 11:42	16°♊56'23		desc. node	295 Dec 15 j 08:45	6°♊52'16	
	295 Jan 06 j 10:57	0°♋		morning set	295 Dec 30 j 11:06	0°♋01'31	
morning set	295 Jan 19 j 08:40	20°♋37'20			295 Dec 30 j 10:43	0°♋	
max. Earth dist.	295 Jan 23 j 12:19	27°♋44'48	1.39176 AU	max. Earth dist.	296 Jan 05 j 10:13	9°♋47'23	1.41275 AU
	295 Jan 24 j 19:05	0°♌					
				superior conj	296 Jan 13 j 03:42	23°♋04'07	-2°02'14
superior conj	295 Jan 31 j 01:22	11°♌22'23	-1°53'41	minimum elong	296 Jan 13 j 04:19	23°♋06'52	2°02'14
minimum elong	295 Jan 31 j 04:38	11°♌37'37	1°53'28		296 Jan 17 j 00:38	0°♌	
evening rise	295 Feb 09 j 08:36	29°♌10'29		evening rise	296 Jan 23 j 15:50	12°♌12'34	
	295 Feb 09 j 18:51	0°♍		asc. node	296 Feb 01 j 21:21	28°♌42'00	
asc. node	295 Feb 15 j 00:18	9°♍52'20			296 Feb 02 j 16:47	0°♍	
evening max el	295 Feb 25 j 16:07	25°♍26'50	18°39'30	evening max el	296 Feb 08 j 23:56	8°♍15'04	18°13'55
retrograde	295 Mar 05 j 13:31	29°♍17'36		retrograde	296 Feb 15 j 23:41	11°♍45'12	
evening set	295 Mar 07 j 22:06	28°♍58'15		evening set	296 Feb 18 j 13:29	11°♍17'35	
inferior conj	295 Mar 15 j 13:48	24°♍33'33	2°45'21	inferior conj	296 Feb 25 j 12:25	6°♍32'06	3°31'26
minimum elong	295 Mar 15 j 18:01	24°♍25'30	2°44'19	minimum elong	296 Feb 25 j 15:02	6°♍26'17	3°31'05
min. Earth dist.	295 Mar 18 j 22:42	22°♍00'47	0.57866 AU	min. Earth dist.	296 Feb 28 j 21:15	3°♍34'27	0.59934 AU
morning rise	295 Mar 23 j 11:02	19°♍15'44		morning rise	296 Mar 03 j 14:28	0°♍51'19	
desc. node	295 Mar 26 j 10:52	18°♍12'52			296 Mar 05 j 05:09	30°♎	
direct	295 Mar 29 j 04:15	17°♍54'10		direct	296 Mar 10 j 03:50	28°♎51'42	
morning max el	295 Apr 12 j 12:53	25°♍28'25	26°24'26	desc. node	296 Mar 12 j 07:55	29°♎04'18	
	295 Apr 16 j 18:05	0°♎			296 Mar 15 j 07:07	0°♎	
	295 May 05 j 23:57	0°♏		morning max el	296 Mar 24 j 10:42	6°♎38'44	27°23'40
morning set	295 May 11 j 10:45	10°♏59'23			296 Apr 10 j 23:27	0°♎	
asc. node	295 May 13 j 23:36	16°♏23'30		morning set	296 Apr 24 j 19:05	25°♎44'35	
					296 Apr 26 j 19:41	0°♏	
superior conj	295 May 18 j 11:05	26°♏10'19	0°45'49	asc. node	296 Apr 29 j 20:39	6°♏33'12	
minimum elong	295 May 18 j 09:13	26°♏00'07	0°45'27				
max. Earth dist.	295 May 18 j 18:54	26°♏53'17	1.32410 AU	superior conj	296 May 01 j 22:44	11°♏07'13	0°21'57
	295 May 20 j 04:59	0°♐		minimum elong	296 May 01 j 21:46	11°♏01'53	0°21'44
evening rise	295 May 25 j 10:17	11°♐12'04		max. Earth dist.	296 May 01 j 07:27	9°♏43'24	1.32316 AU
	295 Jun 04 j 03:23	0°♑		evening rise	296 May 08 j 20:05	26°♏04'16	
desc. node	295 Jun 22 j 10:11	26°♑11'16			296 May 10 j 17:18	0°♐	
evening max el	295 Jun 24 j 19:58	28°♑37'07	26°51'02		296 May 28 j 02:09	0°♑	
	295 Jun 26 j 08:19	0°♒		evening max el	296 Jun 05 j 17:19	10°♑05'19	25°48'21
retrograde	295 Jul 08 j 19:01	5°♒53'00		desc. node	296 Jun 08 j 07:13	12°♑22'05	
evening set	295 Jul 15 j 15:56	3°♒49'09		retrograde	296 Jun 19 j 18:31	17°♑16'56	
min. Earth dist.	295 Jul 19 j 09:47	1°♒10'00	0.60655 AU	evening set	296 Jun 25 j 18:34	15°♑50'44	
	295 Jul 20 j 19:41	30°♓		min. Earth dist.	296 Jun 30 j 05:49	13°♑10'35	0.58596 AU
inferior conj	295 Jul 22 j 16:13	28°♑25'35	-4°33'26	inferior conj	296 Jul 03 j 12:30	10°♑47'27	-4°47'19
minimum elong	295 Jul 22 j 19:43	28°♑18'14	4°33'00	minimum elong	296 Jul 03 j 12:30	10°♑47'28	4°47'19
morning rise	295 Jul 30 j 01:21	23°♑40'17		morning rise	296 Jul 11 j 08:51	6°♑24'26	
direct	295 Aug 01 j 12:29	23°♑16'41		direct	296 Jul 13 j 21:09	6°♑03'55	
morning max el	295 Aug 08 j 18:33	26°♑50'24	18°06'06	morning max el	296 Jul 22 j 01:16	9°♑56'35	18°39'07
asc. node	295 Aug 09 j 22:49	28°♑03'32		asc. node	296 Jul 26 j 19:53	15°♑38'17	
	295 Aug 11 j 13:56	0°♓			296 Aug 04 j 06:32	0°♓	
morning set	295 Aug 24 j 15:55	21°♓59'11		morning set	296 Aug 07 j 08:39	5°♓56'01	
	295 Aug 28 j 23:12	0°♔					
				superior conj	296 Aug 16 j 03:03	22°♓49'14	1°42'48
superior conj	295 Sep 03 j 11:59	10°♔03'55	1°28'33	minimum elong	296 Aug 16 j 05:03	22°♓58'37	1°42'42
minimum elong	295 Sep 03 j 16:02	10°♔21'59	1°28'12		296 Aug 20 j 00:18	0°♔	
max. Earth dist.	295 Sep 11 j 02:54	23°♔15'23	1.41596 AU	max. Earth dist.	296 Aug 23 j 07:16	5°♔52'39	1.39618 AU
	295 Sep 15 j 04:54	0°♕		evening rise	296 Aug 27 j 10:06	12°♔58'26	
evening rise	295 Sep 16 j 14:34	2°♕16'07		desc. node	296 Sep 04 j 06:33	25°♔45'23	
desc. node	295 Sep 18 j 09:32	5°♕07'50			296 Sep 07 j 00:15	0°♕	
	295 Oct 04 j 23:13	0°♖			296 Sep 29 j 04:11	0°♖	
evening max el	295 Oct 20 j 00:24	18°♖57'35	22°39'35	evening max el	296 Oct 01 j 13:44	2°♖30'48	23°59'49
retrograde	295 Oct 29 j 20:46	24°♖48'48		retrograde	296 Oct 12 j 12:33	8°♖57'09	
evening set	295 Nov 03 j 12:38	22°♖55'05		evening set	296 Oct 17 j 18:17	6°♖45'45	
asc. node	295 Nov 05 j 22:01	20°♖28'43		min. Earth dist.	296 Oct 22 j 13:32	1°♖11'37	0.67562 AU
inferior conj	295 Nov 08 j 20:59	16°♖34'40	1°00'19	asc. node	296 Oct 22 j 19:05	0°♖52'49	
minimum elong	295 Nov 08 j 19:37	16°♖39'22	0°59'45	inferior conj	296 Oct 23 j 03:44	0°♖23'28	0°07'28
min. Earth dist.	295 Nov 08 j 17:08	16°♖47'58	0.67693 AU	minimum elong	296 Oct 23 j 03:33	0°♖24'05	0°07'24
morning rise	295 Nov 14 j 02:30	10°♖23'37		transit middle	296 Oct 23 j 03:33	0°♖24'05	0°07'24
direct	295 Nov 18 j 14:35	8°♖33'44		transit begin	296 Oct 23 j 01:07	0°♖32'19	

transit end	296 Oct 23 j 05:58	0°♄15'52		minimum elong	297 Oct 07 j 09:32	14°♄09'15	0°47'29
	296 Oct 23 j 10:39	30°♄18'34		asc. node	297 Oct 09 j 16:07	11°♄18'34	
morning rise	296 Oct 28 j 12:46	24°♄17'05		morning rise	297 Oct 12 j 22:46	8°♄14'19	
direct	296 Nov 01 j 11:17	22°♄48'59		direct	297 Oct 16 j 09:35	7°♄05'29	
morning max el	296 Nov 09 j 13:59	27°♄31'20	20°40'47	morning max el	297 Oct 23 j 16:45	11°♄14'23	19°35'11
	296 Nov 11 j 20:46	0°♄		greatest brilliancy	297 Nov 06 j 21:56	0°♄25'20	-0.7m
desc. node	296 Dec 01 j 05:48	27°♄07'38			297 Nov 06 j 15:13	0°♄	
	296 Dec 03 j 03:12	0°♄		morning set	297 Nov 17 j 10:56	16°♄35'19	
morning set	296 Dec 08 j 13:01	8°♄19'38		desc. node	297 Nov 18 j 02:50	17°♄36'55	
max. Earth dist.	296 Dec 17 j 15:40	22°♄46'02	1.43098 AU		297 Nov 26 j 01:27	0°♄	
	296 Dec 22 j 01:46	0°♄		max. Earth dist.	297 Nov 30 j 04:48	6°♄31'54	1.44396 AU
superior conj	296 Dec 24 j 05:47	3°♄36'30	-1°56'56	superior conj	297 Dec 04 j 05:04	12°♄55'48	-1°33'45
minimum elong	296 Dec 24 j 01:43	3°♄19'30	1°56'45	minimum elong	297 Dec 03 j 20:57	12°♄23'16	1°33'00
evening rise	297 Jan 05 j 07:43	24°♄29'04			297 Dec 14 j 15:41	0°♄	
	297 Jan 08 j 10:36	0°♄		evening rise	297 Dec 18 j 03:59	5°♄52'42	
asc. node	297 Jan 18 j 18:23	16°♄54'31			298 Jan 02 j 03:01	0°♄	
evening max el	297 Jan 22 j 11:32	21°♄22'23	18°07'58	asc. node	298 Jan 05 j 15:24	4°♄18'59	
retrograde	297 Jan 29 j 00:40	24°♄46'59		evening max el	298 Jan 06 j 00:03	4°♄41'23	18°20'57
evening set	297 Jan 31 j 19:10	24°♄09'47		retrograde	298 Jan 12 j 12:05	8°♄13'18	
inferior conj	297 Feb 07 j 04:53	19°♄03'18	3°48'38	evening set	298 Jan 15 j 11:19	7°♄25'45	
minimum elong	297 Feb 07 j 05:17	19°♄02'17	3°48'37	inferior conj	298 Jan 21 j 11:14	1°♄59'36	3°44'27
min. Earth dist.	297 Feb 10 j 03:18	16°♄05'52	0.62019 AU	minimum elong	298 Jan 21 j 09:52	2°♄03'29	3°44'20
morning rise	297 Feb 13 j 14:12	13°♄08'16			298 Jan 23 j 05:21	30°♄	
direct	297 Feb 20 j 13:11	10°♄37'26		min. Earth dist.	298 Jan 23 j 18:48	29°♄22'37	0.63879 AU
desc. node	297 Feb 27 j 04:57	12°♄37'06		morning rise	298 Jan 27 j 07:47	25°♄55'42	
morning max el	297 Mar 06 j 14:32	18°♄29'30	27°47'26	direct	298 Feb 03 j 06:21	23°♄07'15	
	297 Mar 16 j 07:29	0°♄		desc. node	298 Feb 14 j 01:59	28°♄18'13	
	297 Apr 03 j 17:58	0°♄			298 Feb 15 j 22:58	0°♄	
morning set	297 Apr 08 j 22:45	10°♄13'10		morning max el	298 Feb 16 j 22:44	0°♄57'54	27°34'30
max. Earth dist.	297 Apr 14 j 17:28	22°♄22'41	1.32598 AU		298 Mar 10 j 09:32	0°♄	
superior conj	297 Apr 16 j 08:52	25°♄56'10	-0°03'54	morning set	298 Mar 23 j 19:11	24°♄16'16	
minimum elong	297 Apr 16 j 09:03	25°♄57'10	0°03'52		298 Mar 26 j 15:24	0°♄	
behind sun begin	297 Apr 16 j 04:03	25°♄29'59		max. Earth dist.	298 Mar 28 j 20:55	4°♄37'13	1.33287 AU
behind sun end	297 Apr 16 j 14:03	26°♄24'22		superior conj	298 Mar 31 j 15:38	10°♄30'20	-0°30'49
asc. node	297 Apr 16 j 17:42	26°♄44'13		minimum elong	298 Mar 31 j 17:08	10°♄38'18	0°30'31
	297 Apr 18 j 05:38	0°♄		asc. node	298 Apr 03 j 14:43	16°♄51'45	
evening rise	297 Apr 23 j 07:43	10°♄58'56		evening rise	298 Apr 07 j 19:18	25°♄48'42	
	297 May 03 j 01:53	0°♄			298 Apr 09 j 19:37	0°♄	
evening max el	297 May 18 j 09:04	20°♄55'28	24°22'26		298 Apr 28 j 13:05	0°♄	
desc. node	297 May 26 j 04:13	26°♄31'16		evening max el	298 Apr 30 j 00:04	1°♄28'39	22°47'00
retrograde	297 Jun 01 j 06:29	27°♄55'47		retrograde	298 May 13 j 05:47	8°♄02'30	
evening set	297 Jun 05 j 22:26	27°♄07'10		desc. node	298 May 13 j 01:13	8°♄02'25	
min. Earth dist.	297 Jun 11 j 20:20	24°♄09'55	0.56747 AU	evening set	298 May 16 j 11:49	7°♄39'18	
inferior conj	297 Jun 14 j 12:54	22°♄27'39	-4°27'03	min. Earth dist.	298 May 24 j 08:38	4°♄12'15	0.55441 AU
minimum elong	297 Jun 14 j 08:04	22°♄35'22	4°26'22	inferior conj	298 May 25 j 18:19	3°♄23'58	-3°21'48
morning rise	297 Jun 22 j 20:27	18°♄24'12		minimum elong	298 May 25 j 10:56	3°♄34'35	3°19'50
direct	297 Jun 25 j 11:26	18°♄05'33			298 Jun 01 j 17:38	30°♄	
morning max el	297 Jul 04 j 23:07	22°♄29'55	19°33'09	morning rise	298 Jun 03 j 12:23	29°♄30'45	
	297 Jul 11 j 03:32	0°♄		direct	298 Jun 06 j 07:28	29°♄12'32	
asc. node	297 Jul 13 j 16:56	4°♄01'20			298 Jun 10 j 16:28	0°♄	
morning set	297 Jul 22 j 09:42	20°♄18'51		morning max el	298 Jun 17 j 10:03	4°♄21'45	20°47'53
	297 Jul 27 j 05:07	0°♄		asc. node	298 Jun 30 j 13:59	23°♄00'20	
superior conj	297 Jul 30 j 10:15	6°♄23'52	1°46'56		298 Jul 04 j 05:14	0°♄	
minimum elong	297 Jul 30 j 10:16	6°♄23'55	1°46'56	morning set	298 Jul 06 j 16:20	4°♄59'18	
max. Earth dist.	297 Aug 05 j 10:54	17°♄56'23	1.37623 AU	superior conj	298 Jul 14 j 04:53	20°♄33'35	1°43'03
evening rise	297 Aug 09 j 05:58	24°♄50'21		minimum elong	298 Jul 14 j 03:27	20°♄26'13	1°42'58
	297 Aug 12 j 04:44	0°♄			298 Jul 18 j 21:48	0°♄	
desc. node	297 Aug 22 j 03:35	16°♄11'55		max. Earth dist.	298 Jul 18 j 19:03	29°♄46'34	1.35826 AU
	297 Aug 31 j 15:21	0°♄		evening rise	298 Jul 22 j 22:09	7°♄41'20	
evening max el	297 Sep 14 j 01:32	16°♄07'49	25°16'01		298 Aug 04 j 21:14	0°♄	
retrograde	297 Sep 26 j 00:02	23°♄01'14		desc. node	298 Aug 09 j 00:35	6°♄21'08	
evening set	297 Oct 01 j 20:26	20°♄33'20		evening max el	298 Aug 27 j 13:12	29°♄44'27	26°20'39
min. Earth dist.	297 Oct 06 j 07:25	15°♄34'16	0.67111 AU		298 Aug 27 j 19:40	0°♄	
inferior conj	297 Oct 07 j 08:20	14°♄13'10	-0°48'01	retrograde	298 Sep 09 j 06:36	6°♄55'20	



























































































































evening set	298 Sep 15 j 17:06	4°♌14'52		min. Earth dist.	299 Sep 03 j 02:13	14°♏01'14	0.65163 AU
	298 Sep 19 j 17:57	30°♏17		inferior conj	299 Sep 05 j 03:22	11°♏42'20	-2°40'06
min. Earth dist.	298 Sep 19 j 20:23	29°♏52'36	0.66316 AU	minimum elong	299 Sep 05 j 07:22	11°♏31'00	2°38'41
inferior conj	298 Sep 21 j 08:55	28°♏00'45	-1°44'33	morning rise	299 Sep 11 j 09:32	6°♏07'28	
minimum elong	298 Sep 21 j 11:35	27°♏52'33	1°43'28	asc. node	299 Sep 13 j 10:14	5°♏29'32	
asc. node	298 Sep 26 j 13:10	22°♏40'00		direct	299 Sep 14 j 03:35	5°♏26'42	
morning rise	298 Sep 27 j 06:28	22°♏12'22		morning max el	299 Sep 20 j 16:21	8°♏58'21	18°10'52
direct	298 Sep 30 j 07:42	21°♏19'27			299 Oct 05 j 02:08	0°♌	
morning max el	298 Oct 07 j 02:18	25°♏05'05	18°44'49	morning set	299 Oct 09 j 02:17	6°♌37'41	
	298 Oct 11 j 05:45	0°♌		desc. node	299 Oct 22 j 20:54	29°♌00'02	
morning set	298 Oct 28 j 04:17	25°♌54'07					
	298 Oct 30 j 18:20	0°♍		superior conj	299 Oct 23 j 11:58	29°♌59'54	-0°04'10
desc. node	298 Nov 04 j 23:53	8°♍15'44		minimum elong	299 Oct 23 j 11:26	29°♌57'48	0°04'06
				behind sun begin	299 Oct 23 j 00:49	29°♌15'35	
superior conj	298 Nov 13 j 08:38	21°♍25'01	-0°53'14	behind sun end	299 Oct 23 j 22:04	0°♍39'59	
minimum elong	298 Nov 13 j 01:57	20°♍58'46	0°52'24		299 Oct 23 j 12:00	0°♍	
max. Earth dist.	298 Nov 12 j 22:26	20°♍44'58	1.45009 AU	max. Earth dist.	299 Oct 26 j 17:03	5°♍04'49	1.44889 AU
	298 Nov 18 j 19:22	0°♎		evening rise	299 Nov 08 j 23:27	25°♍48'20	
evening rise	298 Nov 29 j 01:10	16°♎18'20			299 Nov 11 j 16:18	0°♎	
	298 Dec 07 j 14:11	0°♏		greatest brilliancy	299 Nov 21 j 12:48	15°♎08'12	-0.7m
evening max el	298 Dec 20 j 10:56	18°♏06'44	18°51'58		299 Dec 02 j 07:30	0°♏	
asc. node	298 Dec 23 j 12:26	20°♏42'08		evening max el	299 Dec 03 j 18:02	1°♏34'11	19°39'37
retrograde	298 Dec 27 j 05:56	21°♏56'49		asc. node	299 Dec 10 j 09:29	5°♏48'12	
evening set	298 Dec 30 j 10:50	20°♏57'49		retrograde	299 Dec 11 j 02:55	5°♏51'10	
inferior conj	299 Jan 05 j 03:47	15°♏14'24	3°24'53	evening set	299 Dec 14 j 15:04	4°♏39'11	
minimum elong	299 Jan 05 j 01:22	15°♏21'52	3°24'27		299 Dec 19 j 03:12	30°♏♎	
min. Earth dist.	299 Jan 06 j 20:02	13°♏10'10	0.65385 AU	inferior conj	299 Dec 20 j 03:22	28°♎41'19	2°54'03
morning rise	299 Jan 10 j 15:34	9°♏05'00		minimum elong	299 Dec 20 j 00:36	28°♎50'26	2°53'18
direct	299 Jan 17 j 06:19	6°♏13'23		min. Earth dist.	299 Dec 21 j 05:30	27°♎15'29	0.66505 AU
morning max el	299 Jan 30 j 08:35	13°♏53'25	26°49'19	morning rise	299 Dec 25 j 09:54	22°♎28'51	
desc. node	299 Jan 31 j 23:02	15°♏33'05		direct	299 Dec 31 j 12:20	19°♎46'19	
	299 Feb 12 j 11:13	0°♐		morning max el	300 Jan 12 j 17:45	27°♎02'09	25°39'53
	299 Mar 03 j 01:31	0°♑			300 Jan 15 j 12:31	0°♏	
morning set	299 Mar 07 j 05:10	7°♑44'04		desc. node	300 Jan 18 j 20:05	3°♏53'41	
max. Earth dist.	299 Mar 11 j 14:10	16°♑18'20	1.34418 AU		300 Feb 06 j 02:38	0°♐	
				morning set	300 Feb 18 j 00:10	20°♐22'27	
superior conj	299 Mar 15 j 16:59	24°♑43'29	-0°57'41	max. Earth dist.	300 Feb 21 j 19:19	27°♐27'31	1.35998 AU
minimum elong	299 Mar 15 j 19:45	24°♑57'54	0°57'10		300 Feb 23 j 03:09	0°♑	
	299 Mar 18 j 05:29	0°♒					
asc. node	299 Mar 21 j 11:45	6°♒51'56		superior conj	300 Feb 27 j 10:14	8°♑27'20	-1°22'56
evening rise	299 Mar 23 j 05:01	10°♒27'31		minimum elong	300 Feb 27 j 13:57	8°♑46'00	1°22'23
	299 Apr 02 j 12:38	0°♓		evening rise	300 Mar 06 j 10:46	24°♑48'07	
evening max el	299 Apr 11 j 21:35	12°♓16'00	21°16'27	asc. node	300 Mar 07 j 08:47	26°♑39'40	
retrograde	299 Apr 23 j 20:11	18°♓04'26			300 Mar 09 j 00:50	0°♒	
evening set	299 Apr 26 j 04:00	17°♓51'57		evening max el	300 Mar 24 j 06:08	23°♒37'52	20°00'29
desc. node	299 Apr 29 j 22:13	16°♓44'16		retrograde	300 Apr 03 j 11:39	28°♒32'39	
inferior conj	299 May 05 j 12:59	13°♓52'15	-1°36'03	evening set	300 Apr 05 j 13:44	28°♒21'17	
minimum elong	299 May 05 j 08:29	13°♓58'34	1°34'28	inferior conj	300 Apr 14 j 10:59	24°♒21'34	0°23'01
min. Earth dist.	299 May 05 j 21:25	13°♓40'22	0.54974 AU	minimum elong	300 Apr 14 j 12:01	24°♒20'00	0°22'40
morning rise	299 May 14 j 13:17	9°♓51'14		desc. node	300 Apr 15 j 19:14	23°♒32'40	
direct	299 May 17 j 17:38	9°♓29'17		min. Earth dist.	300 Apr 16 j 11:27	23°♒08'21	0.55471 AU
morning max el	299 May 30 j 10:17	15°♓31'23	22°19'50	morning rise	300 Apr 23 j 08:10	19°♒54'35	
	299 Jun 10 j 14:46	0°♑		direct	300 Apr 27 j 08:11	19°♒19'22	
asc. node	299 Jun 17 j 11:02	12°♑26'16		morning max el	300 May 11 j 02:54	26°♒09'09	24°00'43
morning set	299 Jun 21 j 02:25	19°♑51'10			300 May 14 j 18:38	0°♓	
	299 Jun 25 j 21:25	0°♒			300 Jun 02 j 06:27	0°♑	
				asc. node	300 Jun 03 j 08:06	2°♑11'41	
superior conj	299 Jun 28 j 07:24	5°♒07'37	1°32'49	morning set	300 Jun 04 j 14:11	4°♑48'45	
minimum elong	299 Jun 28 j 05:09	4°♒55'44	1°32'35				
max. Earth dist.	299 Jul 01 j 11:48	11°♒46'27	1.34370 AU	superior conj	300 Jun 11 j 15:04	19°♑57'07	1°17'35
evening rise	299 Jul 06 j 05:51	21°♒18'36		minimum elong	300 Jun 11 j 12:35	19°♑43'43	1°17'14
	299 Jul 10 j 20:13	0°♓		max. Earth dist.	300 Jun 13 j 13:52	24°♑08'32	1.33305 AU
desc. node	299 Jul 26 j 21:35	26°♓05'21			300 Jun 16 j 08:28	0°♒	
	299 Jul 29 j 17:24	0°♑		evening rise	300 Jun 19 j 00:48	5°♒29'51	
evening max el	299 Aug 10 j 01:02	13°♑13'23	27°06'04		300 Jul 02 j 11:13	0°♓	
retrograde	299 Aug 23 j 08:00	20°♑32'13		desc. node	300 Jul 12 j 18:35	15°♓14'05	
evening set	299 Aug 30 j 05:56	17°♑46'36		evening max el	300 Jul 22 j 11:55	26°♓23'58	27°25'22

	300 Jul 26 j 18:09	0°♎		desc. node	301 Jun 29 j 15:38	3°♏31'50	
retrograde	300 Aug 05 j 03:32	3°♎43'28		evening max el	301 Jul 04 j 19:25	9°♏02'11	27°13'13
evening set	300 Aug 12 j 07:55	1°♎03'45		retrograde	301 Jul 18 j 16:11	16°♏18'47	
	300 Aug 13 j 15:55	30°♎♏		evening set	301 Jul 25 j 19:01	13°♏58'15	
min. Earth dist.	300 Aug 15 j 23:04	27°♏51'50	0.63648 AU	min. Earth dist.	301 Jul 29 j 09:33	11°♏11'09	0.61816 AU
inferior conj	300 Aug 18 j 13:11	25°♏13'01	-3°31'45	inferior conj	301 Aug 01 j 11:14	8°♏24'15	-4°15'01
minimum elong	300 Aug 18 j 18:01	25°♏00'39	3°30'24	minimum elong	301 Aug 01 j 15:44	8°♏14'01	4°14'11
morning rise	300 Aug 25 j 05:12	19°♏54'46		morning rise	301 Aug 08 j 13:56	3°♏25'54	
direct	300 Aug 27 j 18:35	19°♏22'43		direct	301 Aug 11 j 01:18	2°♏59'44	
asc. node	300 Aug 30 j 07:18	19°♏54'32		asc. node	301 Aug 17 j 04:22	5°♏44'48	
morning max el	300 Sep 03 j 08:13	22°♏48'31	17°54'20	morning max el	301 Aug 17 j 22:53	6°♏27'49	17°56'12
	300 Sep 08 j 23:15	0°♎			301 Sep 02 j 01:50	0°♎	
morning set	300 Sep 20 j 02:27	18°♎37'18		morning set	301 Sep 02 j 22:31	1°♎34'00	
	300 Sep 26 j 17:20	0°♏					
				superior conj	301 Sep 13 j 13:38	20°♎32'28	1°14'56
superior conj	300 Oct 02 j 11:09	9°♏35'55	0°41'04	minimum elong	301 Sep 13 j 18:27	20°♎53'16	1°14'24
minimum elong	300 Oct 02 j 15:14	9°♏52'44	0°40'32		301 Sep 19 j 03:25	0°♏	
max. Earth dist.	300 Oct 08 j 09:59	19°♏15'17	1.44064 AU	max. Earth dist.	301 Sep 20 j 22:58	3°♏00'00	1.42635 AU
desc. node	300 Oct 08 j 17:57	19°♏47'06		desc. node	301 Sep 25 j 14:59	10°♏33'12	
	300 Oct 15 j 05:28	0°♎		evening rise	301 Sep 27 j 18:49	13°♏58'31	
evening rise	300 Oct 18 j 07:42	4°♎47'31			301 Oct 08 j 06:22	0°♎	
	300 Nov 04 j 03:24	0°♎		evening max el	301 Oct 29 j 16:11	28°♎32'24	21°54'27
evening max el	300 Nov 15 j 19:58	15°♎02'56	20°41'34		301 Oct 31 j 04:22	0°♎	
retrograde	300 Nov 24 j 00:35	19°♎53'30		retrograde	301 Nov 07 j 21:02	4°♎00'42	
asc. node	300 Nov 26 j 06:32	19°♎24'52		evening set	301 Nov 12 j 05:44	2°♎17'02	
evening set	300 Nov 27 j 21:59	18°♎26'35		asc. node	301 Nov 13 j 03:35	1°♎28'45	
inferior conj	300 Dec 03 j 07:32	12°♎17'22	2°14'44		301 Nov 14 j 12:46	30°♎♏	
minimum elong	300 Dec 03 j 04:58	12°♎26'06	2°13'52	inferior conj	301 Nov 17 j 14:07	25°♎59'46	1°28'58
min. Earth dist.	300 Dec 03 j 21:05	11°♎31'10	0.67248 AU	minimum elong	301 Nov 17 j 12:13	26°♎06'21	1°28'12
morning rise	300 Dec 08 j 11:45	6°♎03'55		min. Earth dist.	301 Nov 17 j 16:21	25°♎52'01	0.67634 AU
direct	300 Dec 13 j 23:35	3°♎38'57		morning rise	301 Nov 22 j 18:32	19°♎47'24	
morning max el	300 Dec 25 j 02:02	10°♎16'23	24°16'07	direct	301 Nov 27 j 15:09	17°♎44'25	
desc. node	301 Jan 04 j 17:09	23°♎01'10		morning max el	301 Dec 07 j 11:55	23°♎35'25	22°48'08
	301 Jan 09 j 17:59	0°♎			301 Dec 13 j 03:19	0°♎	
	301 Jan 28 j 19:43	0°♎		desc. node	301 Dec 22 j 14:13	12°♎42'00	
morning set	301 Jan 29 j 22:24	1°♎55'19			302 Jan 03 j 04:14	0°♎	
max. Earth dist.	301 Feb 02 j 15:39	8°♎29'59	1.37957 AU	morning set	302 Jan 10 j 17:43	12°♎07'20	
				max. Earth dist.	302 Jan 15 j 11:22	20°♎04'50	1.40087 AU
					302 Jan 21 j 03:13	0°♎	
superior conj	301 Feb 09 j 16:01	21°♎32'59	-1°44'19				
minimum elong	301 Feb 09 j 19:51	21°♎51'26	1°43'56	superior conj	302 Jan 23 j 05:53	3°♎48'59	-1°58'42
	301 Feb 14 j 00:12	0°♎		minimum elong	302 Jan 23 j 08:18	4°♎00'01	1°58'36
evening rise	301 Feb 18 j 10:11	8°♎44'05		evening rise	302 Feb 02 j 00:19	22°♎08'07	
asc. node	301 Feb 22 j 05:50	16°♎09'56			302 Feb 06 j 04:36	0°♎	
	301 Mar 02 j 09:00	0°♎		asc. node	302 Feb 09 j 02:53	5°♎16'33	
evening max el	301 Mar 07 j 01:44	5°♎38'22	19°03'21	evening max el	302 Feb 18 j 05:56	18°♎11'24	18°26'13
retrograde	301 Mar 15 j 16:32	9°♎47'43		retrograde	302 Feb 25 j 16:32	21°♎51'23	
evening set	301 Mar 17 j 22:13	9°♎32'06		evening set	302 Feb 28 j 03:33	21°♎28'34	
inferior conj	301 Mar 26 j 00:50	5°♎18'32	2°03'06	inferior conj	302 Mar 07 j 11:39	16°♎54'54	3°08'55
minimum elong	301 Mar 26 j 04:57	5°♎11'22	2°01'53	minimum elong	302 Mar 07 j 15:23	16°♎47'18	3°08'10
min. Earth dist.	301 Mar 29 j 03:05	3°♎10'30	0.56820 AU	min. Earth dist.	302 Mar 10 j 22:05	14°♎08'49	0.58721 AU
desc. node	301 Apr 02 j 16:18	0°♎35'41		morning rise	302 Mar 15 j 00:41	11°♎26'27	
morning rise	301 Apr 03 j 08:41	0°♎18'37		desc. node	302 Mar 20 j 13:21	9°♎49'45	
	301 Apr 04 j 05:12	30°♎♎		direct	302 Mar 21 j 03:37	9°♎48'50	
direct	301 Apr 08 j 11:20	29°♎17'04		morning max el	302 Apr 04 j 11:54	17°♎28'44	26°53'44
	301 Apr 12 j 17:47	0°♎			302 Apr 14 j 20:59	0°♎	
morning max el	301 Apr 22 j 17:31	6°♎38'45	25°37'06		302 May 02 j 06:03	0°♎	
	301 May 09 j 20:23	0°♎		morning set	302 May 04 j 12:03	4°♎38'08	
morning set	301 May 20 j 01:56	19°♎46'14		asc. node	302 May 08 j 02:10	12°♎17'37	
asc. node	301 May 21 j 05:07	22°♎10'25					
	301 May 24 j 19:54	0°♎		superior conj	302 May 11 j 13:27	19°♎53'13	0°36'00
superior conj	301 May 27 j 01:41	4°♎54'21	0°58'23	minimum elong	302 May 11 j 11:56	19°♎44'51	0°35'41
minimum elong	301 May 26 j 23:28	4°♎42'16	0°57'59	max. Earth dist.	302 May 11 j 11:32	19°♎42'40	1.32328 AU
max. Earth dist.	301 May 27 j 22:56	6°♎50'29	1.32632 AU		302 May 16 j 04:36	0°♎	
evening rise	301 Jun 03 j 03:34	20°♎03'53		evening rise	302 May 18 j 11:28	4°♎51'58	
	301 Jun 08 j 03:08	0°♎			302 May 31 j 20:50	0°♎	
	301 Jun 26 j 18:57	0°♎		desc. node	302 Jun 16 j 12:38	20°♎37'11	

evening max el	302 Jun 16 j 20:50	20°☿56'55	26°27'54		303 May 27 j 13:33	0°☿	
retrograde	302 Jun 30 j 20:43	28°☿10'30		evening max el	303 May 29 j 15:09	2°☿05'46	25°13'52
evening set	302 Jul 07 j 10:38	26°☿21'44		desc. node	303 Jun 03 j 09:38	6°☿00'26	
min. Earth dist.	302 Jul 11 j 09:56	23°☿44'37	0.59785 AU	retrograde	303 Jun 12 j 15:37	9°☿14'26	
inferior conj	302 Jul 14 j 17:56	21°☿06'50	-4°42'38	evening set	303 Jun 18 j 03:17	8°☿04'38	
minimum elong	302 Jul 14 j 20:12	21°☿02'18	4°42'28	min. Earth dist.	303 Jun 23 j 02:53	5°☿19'09	0.57767 AU
morning rise	302 Jul 22 j 07:48	16°☿30'56		inferior conj	303 Jun 26 j 05:51	3°☿10'56	-4°43'41
direct	302 Jul 24 j 19:24	16°☿08'40		minimum elong	303 Jun 26 j 03:48	3°☿14'28	4°43'34
morning max el	302 Aug 01 j 09:23	19°☿48'34	18°17'34		303 Jul 01 j 11:08	30°☿II	
asc. node	302 Aug 04 j 01:25	22°☿45'36		morning rise	303 Jul 04 j 07:02	28°II57'20	
	302 Aug 08 j 23:56	0°♌		direct	303 Jul 06 j 20:22	28°II37'46	
morning set	302 Aug 17 j 08:57	15°♌12'09			303 Jul 11 j 21:43	0°☿	
	302 Aug 25 j 05:30	0°♍		morning max el	303 Jul 15 j 12:41	2°☿41'48	18°59'32
				asc. node	303 Jul 21 j 22:27	10°☿42'02	
superior conj	302 Aug 26 j 16:59	2°♍42'45	1°35'58	morning set	303 Aug 01 j 05:33	29°☿20'40	
minimum elong	302 Aug 26 j 20:12	2°♍57'28	1°35'44		303 Aug 01 j 13:32	0°♌	
max. Earth dist.	302 Sep 03 j 06:29	16°♍04'29	1.40782 AU				
evening rise	302 Sep 08 j 00:18	24°♍01'02		superior conj	303 Aug 09 j 15:33	15°♌50'56	1°45'40
	302 Sep 11 j 17:09	0°♊		minimum elong	303 Aug 09 j 16:40	15°♌56'15	1°45'38
desc. node	302 Sep 12 j 12:00	1°♊14'50		max. Earth dist.	303 Aug 16 j 09:41	28°♌24'38	1.38756 AU
	302 Oct 02 j 04:22	0°♋			303 Aug 17 j 07:00	0°♍	
evening max el	302 Oct 12 j 07:23	12°♋03'21	23°13'38	evening rise	303 Aug 20 j 06:24	5°♍13'04	
retrograde	302 Oct 22 j 14:53	18°♋09'50		desc. node	303 Aug 30 j 09:00	21°♍48'03	
evening set	302 Oct 27 j 12:38	16°♋08'18			303 Sep 04 j 18:45	0°♊	
asc. node	302 Oct 31 j 00:38	12°♋17'33		evening max el	303 Sep 24 j 19:35	25°♊37'33	24°33'05
inferior conj	302 Nov 01 j 21:17	9°♋46'37	0°38'17		303 Sep 29 j 23:54	0°♋	
minimum elong	302 Nov 01 j 20:24	9°♋49'41	0°37'55	retrograde	303 Oct 06 j 05:05	2°♋17'14	
min. Earth dist.	302 Nov 01 j 12:57	10°♋15'15	0.67684 AU	evening set	303 Oct 11 j 17:03	29°♊58'18	
morning rise	302 Nov 07 j 04:05	3°♋37'30			303 Oct 11 j 16:15	30°☿♊	
direct	302 Nov 11 j 10:11	1°♋57'15		min. Earth dist.	303 Oct 16 j 08:34	24°♊38'52	0.67408 AU
morning max el	302 Nov 20 j 02:59	7°♋02'47	21°24'27	inferior conj	303 Oct 17 j 03:20	23°♊36'11	-0°15'51
	302 Dec 07 j 14:09	0°♌		minimum elong	303 Oct 17 j 03:43	23°♊34'53	0°15'40
desc. node	302 Dec 09 j 11:16	2°♌46'39		transit middle	303 Oct 17 j 03:43	23°♊34'53	0°15'40
morning set	302 Dec 21 j 08:14	20°♌58'08		transit begin	303 Oct 17 j 02:59	23°♊37'20	
	302 Dec 26 j 23:22	0°♍		transit end	303 Oct 17 j 04:27	23°♊32'26	
max. Earth dist.	302 Dec 28 j 12:47	2°♍33'14	1.42102 AU	asc. node	303 Oct 17 j 21:40	22°♊35'15	
				morning rise	303 Oct 22 j 14:28	17°♊32'44	
superior conj	303 Jan 04 j 22:26	15°♍01'49	-2°01'57	direct	303 Oct 26 j 07:39	16°♊13'26	
minimum elong	303 Jan 04 j 21:15	14°♍56'42	2°01'57	morning max el	303 Nov 03 j 01:24	20°♊40'38	20°11'09
	303 Jan 13 j 09:17	0°♎			303 Nov 10 j 16:05	0°♋	
evening rise	303 Jan 16 j 01:33	4°♎51'40		desc. node	303 Nov 26 j 08:18	23°♋08'33	
asc. node	303 Jan 26 j 23:56	23°♎51'15		morning set	303 Nov 30 j 05:20	29°♋06'25	
	303 Jan 31 j 13:50	0°♏			303 Nov 30 j 19:11	0°♌	
evening max el	303 Feb 01 j 15:37	1°♏07'48	18°08'59	max. Earth dist.	303 Dec 10 j 21:31	15°♌53'11	1.43721 AU
retrograde	303 Feb 08 j 09:43	4°♏34'14					
evening set	303 Feb 11 j 01:28	4°♏02'42		superior conj	303 Dec 16 j 13:04	25°♌02'27	-1°49'25
	303 Feb 16 j 19:57	30°☿♎		minimum elong	303 Dec 16 j 06:55	24°♌37'13	1°49'01
inferior conj	303 Feb 17 j 18:18	29°♎07'56	3°41'48		303 Dec 19 j 13:03	0°♍	
minimum elong	303 Feb 17 j 19:59	29°♎04'00	3°41'40	evening rise	303 Dec 29 j 09:42	16°♍46'55	
min. Earth dist.	303 Feb 20 j 23:26	26°♎07'35	0.60828 AU		304 Jan 06 j 02:17	0°♎	
morning rise	303 Feb 24 j 12:45	23°♎19'58		asc. node	304 Jan 13 j 20:58	11°♎44'51	
direct	303 Mar 03 j 07:19	21°♎06'03		evening max el	304 Jan 16 j 03:55	14°♎20'36	18°11'10
desc. node	303 Mar 07 j 10:24	21°♎52'00		retrograde	304 Jan 22 j 15:41	17°♎47'08	
morning max el	303 Mar 17 j 12:34	28°♎56'09	27°38'32	evening set	304 Jan 25 j 12:00	17°♎05'50	
	303 Mar 18 j 13:51	0°♏		inferior conj	304 Jan 31 j 17:12	11°♎50'52	3°49'03
	303 Apr 08 j 16:49	0°♐		minimum elong	304 Jan 31 j 16:45	11°♎52'02	3°49'03
morning set	303 Apr 18 j 18:39	19°♐16'52		min. Earth dist.	304 Feb 03 j 09:38	8°♎59'46	0.62846 AU
	303 Apr 23 j 20:00	0°♑		morning rise	304 Feb 06 j 20:32	5°♎51'15	
asc. node	303 Apr 24 j 23:13	2°♑27'59		direct	304 Feb 13 j 20:20	3°♎10'51	
max. Earth dist.	303 Apr 24 j 23:34	2°♑29'54	1.32386 AU	desc. node	304 Feb 22 j 07:27	6°♎23'32	
				morning max el	304 Feb 27 j 18:41	11°♎04'11	27°46'13
superior conj	303 Apr 26 j 00:37	4°♑46'49	0°11'12		304 Mar 13 j 16:54	0°♏	
minimum elong	303 Apr 26 j 00:07	4°♑44'02	0°11'05		304 Mar 31 j 00:20	0°♐	
behind sun begin	303 Apr 25 j 20:29	4°♑24'08		morning set	304 Apr 01 j 19:34	3°♐35'14	
behind sun end	303 Apr 26 j 03:45	5°♑03'56		max. Earth dist.	304 Apr 07 j 07:04	14°♐58'38	1.32834 AU
evening rise	303 May 02 j 22:14	19°♑45'21					
	303 May 07 j 22:44	0°♒		superior conj	304 Apr 09 j 09:32	19°♐29'35	-0°15'15

minimum elong	304 Apr 09 j 10:15	19° Υ 33'31	0°15'06	superior conj	305 Mar 24 j 14:17	3° Υ 55'39	-0°42'19
behind sun begin	304 Apr 09 j 08:38	19° Υ 24'43		minimum elong	305 Mar 24 j 16:20	4° Υ 06'29	0°41'54
behind sun end	304 Apr 09 j 11:53	19° Υ 42'19		asc. node	305 Mar 28 j 17:18	12° Υ 42'25	
asc. node	304 Apr 10 j 20:15	22° Υ 37'31		evening rise	305 Mar 31 j 21:01	19° Υ 23'21	
	304 Apr 14 j 05:59	0° B			305 Apr 06 j 03:05	0° B	
evening rise	304 Apr 16 j 10:01	4° B 37'47		evening max el	305 Apr 21 j 22:44	23° B 20'25	22°07'16
	304 Apr 30 j 02:07	0° II		retrograde	305 May 04 j 17:04	29° B 36'21	
evening max el	304 May 10 j 05:33	12° II 43'57	23°42'05	evening set	305 May 07 j 11:28	29° B 19'25	
desc. node	304 May 20 j 06:39	19° II 05'30		desc. node	305 May 07 j 03:40	29° B 23'06	
retrograde	304 May 23 j 22:37	19° II 36'05		min. Earth dist.	305 May 16 j 04:51	25° B 35'39	0.55123 AU
evening set	304 May 27 j 23:14	19° II 00'21		inferior conj	305 May 16 j 21:03	25° B 12'53	-2°40'47
min. Earth dist.	304 Jun 03 j 16:17	15° II 51'36	0.56097 AU	minimum elong	305 May 16 j 14:14	25° B 22'28	2°38'40
inferior conj	304 Jun 05 j 21:35	14° II 31'05	-4°05'08	morning rise	305 May 25 j 18:30	21° B 18'27	
minimum elong	304 Jun 05 j 15:08	14° II 40'53	4°03'53	direct	305 May 28 j 16:38	20° B 59'17	
morning rise	304 Jun 14 j 09:50	10° II 33'36		morning max el	305 Jun 09 j 12:13	26° B 31'17	21°25'16
direct	304 Jun 17 j 01:59	10° II 15'34			305 Jun 12 j 19:41	0° II	
morning max el	304 Jun 27 j 06:05	14° II 58'01	20°02'34	asc. node	305 Jun 24 j 16:33	18° II 32'43	
asc. node	304 Jul 07 j 19:30	29° II 21'10		morning set	305 Jun 29 j 17:36	28° II 37'22	
	304 Jul 08 j 04:21	0° B			305 Jun 30 j 09:32	0° B	
morning set	304 Jul 15 j 09:14	13° B 51'08					
				superior conj	305 Jul 07 j 02:28	14° B 02'57	1°39'23
superior conj	304 Jul 23 j 04:05	29° B 41'37	1°46'09	minimum elong	305 Jul 07 j 00:36	13° B 53'17	1°39'15
minimum elong	304 Jul 23 j 03:24	29° B 38'12	1°46'08	max. Earth dist.	305 Jul 11 j 01:44	22° B 09'54	1.35160 AU
	304 Jul 23 j 07:45	0° Ω		evening rise	305 Jul 15 j 10:55	0° Ω 44'21	
max. Earth dist.	304 Jul 28 j 14:04	10° Ω 17'05	1.36819 AU		305 Jul 15 j 01:37	0° Ω	
evening rise	304 Aug 01 j 11:28	17° Ω 31'27			305 Aug 01 j 16:34	0° II	
	304 Aug 08 j 15:21	0° II		desc. node	305 Aug 03 j 03:00	2° II 07'32	
desc. node	304 Aug 16 j 05:59	12° II 07'39		evening max el	305 Aug 19 j 19:13	22° II 50'29	26°42'49
	304 Aug 29 j 02:00	0° B			305 Aug 31 j 12:41	0° B	
evening max el	304 Sep 06 j 07:08	9° B 14'44	25°45'27	retrograde	305 Sep 01 j 19:05	0° B 05'19	
retrograde	304 Sep 18 j 14:42	16° B 17'31			305 Sep 03 j 00:47	30° R II	
evening set	304 Sep 24 j 17:07	13° B 43'44		evening set	305 Sep 08 j 10:47	27° II 21'55	
min. Earth dist.	304 Sep 29 j 00:45	8° B 59'56	0.66810 AU	min. Earth dist.	305 Sep 12 j 11:07	23° II 15'11	0.65872 AU
inferior conj	304 Sep 30 j 06:28	7° B 25'23	-1°11'59	inferior conj	305 Sep 14 j 04:46	21° II 11'33	-2°08'21
minimum elong	304 Sep 30 j 08:18	7° B 19'33	1°11'12	minimum elong	305 Sep 14 j 08:03	21° II 01'48	2°07'05
asc. node	304 Oct 03 j 18:43	3° B 18'45		morning rise	305 Sep 20 j 05:47	15° II 28'12	
morning rise	304 Oct 05 j 23:44	1° B 30'24		asc. node	305 Sep 20 j 15:46	15° II 15'42	
direct	304 Oct 09 j 06:07	0° B 28'52		direct	305 Sep 23 j 03:43	14° II 40'46	
morning max el	304 Oct 16 j 07:13	4° B 27'05	19°11'44	morning max el	305 Sep 29 j 18:56	18° II 19'22	18°28'13
	304 Nov 03 j 10:28	0° II			305 Oct 08 j 13:21	0° B	
morning set	304 Nov 08 j 09:11	7° II 42'17		morning set	305 Oct 19 j 14:34	17° B 37'19	
desc. node	304 Nov 12 j 05:18	13° II 41'57			305 Oct 27 j 07:58	0° II	
max. Earth dist.	304 Nov 22 j 12:24	29° II 50'49	1.44745 AU	desc. node	305 Oct 30 j 02:20	4° II 23'21	
	304 Nov 22 j 14:44	0° B					
				superior conj	305 Nov 04 j 02:56	12° II 19'11	-0°32'42
superior conj	304 Nov 25 j 02:18	3° B 55'33	-1°18'22	minimum elong	305 Nov 03 j 22:39	12° II 02'19	0°32'08
minimum elong	304 Nov 24 j 17:58	3° B 22'29	1°17'27	max. Earth dist.	305 Nov 05 j 06:59	14° II 09'28	1.45059 AU
evening rise	304 Dec 09 j 20:21	27° B 45'28			305 Nov 15 j 09:02	0° B	
	304 Dec 11 j 05:01	0° B		evening rise	305 Nov 20 j 07:19	7° B 45'53	
evening max el	304 Dec 29 j 16:04	27° B 42'50	18°32'03	greatest brilliancy	305 Nov 30 j 01:01	23° B 05'42	-0.8m
asc. node	304 Dec 30 j 18:00	28° B 44'52			305 Dec 04 j 13:27	0° B	
	305 Jan 01 j 08:25	0° \approx		evening max el	305 Dec 13 j 01:38	11° B 09'40	19°10'22
retrograde	305 Jan 05 j 06:08	1° \approx 21'05		asc. node	305 Dec 17 j 15:03	14° B 37'04	
evening set	305 Jan 08 j 07:38	0° \approx 28'53		retrograde	305 Dec 20 j 01:35	15° B 09'45	
	305 Jan 09 j 02:04	30° R B		evening set	305 Dec 23 j 09:27	14° B 05'17	
inferior conj	305 Jan 14 j 04:18	24° B 55'23	3°37'43	inferior conj	305 Dec 29 j 00:10	8° B 15'26	3°12'57
minimum elong	305 Jan 14 j 02:23	25° B 01'00	3°37'28	minimum elong	305 Dec 28 j 21:32	8° B 23'50	3°12'22
min. Earth dist.	305 Jan 16 j 05:24	22° B 31'00	0.64573 AU	min. Earth dist.	305 Dec 30 j 10:12	6° B 27'21	0.65919 AU
morning rise	305 Jan 19 j 20:40	18° B 48'53		morning rise	306 Jan 03 j 09:22	2° B 04'46	
direct	305 Jan 26 j 16:47	15° B 57'01			306 Jan 06 j 11:24	30° R B	
desc. node	305 Feb 08 j 04:30	22° B 47'54		direct	306 Jan 09 j 19:25	29° B 15'45	
morning max el	305 Feb 09 j 03:44	23° B 44'44	27°18'39		306 Jan 13 j 09:17	0° B	
	305 Feb 14 j 18:40	0° \approx		morning max el	306 Jan 22 j 13:17	6° B 46'21	26°22'05
	305 Mar 07 j 00:43	0° B		desc. node	306 Jan 26 j 01:33	10° B 33'14	
morning set	305 Mar 16 j 12:00	17° B 24'23			306 Feb 09 j 13:43	0° \approx	
max. Earth dist.	305 Mar 21 j 06:16	26° B 57'55	1.33709 AU		306 Feb 27 j 09:15	0° B	
	305 Mar 22 j 17:24	0° Υ		morning set	306 Feb 27 j 16:11	0° B 32'32	

max. Earth dist.	306 Mar 03 j 18:21	8° K 23'51	1.35040 AU		307 Feb 02 j 17:21	0° \approx	
				morning set	307 Feb 10 j 03:11	12° \approx 45'32	
superior conj	306 Mar 08 j 12:34	17° K 57'23	-1°08'43	max. Earth dist.	307 Feb 13 j 19:36	19° \approx 28'47	1.36799 AU
minimum elong	306 Mar 08 j 15:48	18° K 13'59	1°08'10		307 Feb 19 j 07:48	0° K	
	306 Mar 14 j 07:54	0° Y					
asc. node	306 Mar 15 j 14:21	2° Y 37'56		superior conj	307 Feb 20 j 01:26	1° K 26'35	-1°32'38
evening rise	306 Mar 16 j 05:20	3° Y 55'18		minimum elong	307 Feb 20 j 05:21	1° K 45'52	1°32'08
	306 Mar 31 j 03:43	0° B		evening rise	307 Feb 28 j 08:47	18° K 07'01	
evening max el	306 Apr 04 j 00:44	4° B 20'55	20°41'59	asc. node	307 Mar 02 j 11:25	22° K 19'25	
retrograde	306 Apr 15 j 05:56	9° B 46'07			307 Mar 06 j 11:51	0° Y	
evening set	306 Apr 17 j 09:52	9° B 34'50		evening max el	307 Mar 17 j 14:05	15° Y 59'14	19°33'40
desc. node	306 Apr 24 j 00:43	7° B 04'35		retrograde	307 Mar 27 j 02:18	20° Y 33'31	
inferior conj	306 Apr 26 j 15:15	5° B 37'12	-0°45'00	evening set	307 Mar 29 j 05:17	20° Y 20'50	
minimum elong	306 Apr 26 j 13:07	5° B 40'15	0°44'13	inferior conj	307 Apr 06 j 18:53	16° Y 15'59	1°09'14
min. Earth dist.	306 Apr 27 j 17:48	4° B 59'08	0.55070 AU	minimum elong	307 Apr 06 j 21:42	16° Y 11'29	1°08'16
morning rise	306 May 05 j 15:37	1° B 27'21		min. Earth dist.	307 Apr 09 j 08:14	14° Y 38'19	0.55955 AU
direct	306 May 09 j 03:19	1° B 01'07		desc. node	307 Apr 10 j 21:46	13° Y 42'01	
morning max el	306 May 22 j 08:28	7° B 24'17	23°02'26	morning rise	307 Apr 15 j 11:29	11° Y 35'07	
	306 Jun 07 j 08:55	0° II		direct	307 Apr 19 j 22:13	10° Y 50'37	
asc. node	306 Jun 11 j 13:36	8° II 07'36		morning max el	307 May 03 j 23:37	17° Y 55'35	24°43'17
morning set	306 Jun 14 j 04:38	13° II 32'18			307 May 13 j 22:18	0° B	
				asc. node	307 May 29 j 10:40	27° B 59'25	
superior conj	306 Jun 21 j 07:27	28° II 44'08	1°26'54	morning set	307 May 29 j 16:35	28° B 30'32	
minimum elong	306 Jun 21 j 05:02	28° II 31'14	1°26'37		307 May 30 j 09:30	0° II	
	306 Jun 21 j 21:42	0° B					
max. Earth dist.	306 Jun 23 j 22:52	4° B 19'43	1.33870 AU	superior conj	307 Jun 05 j 16:37	13° II 37'31	1°09'53
evening rise	306 Jun 28 j 23:52	14° B 37'11		minimum elong	307 Jun 05 j 14:12	13° II 24'22	1°09'29
	306 Jul 07 j 05:25	0° O		max. Earth dist.	307 Jun 07 j 04:19	16° II 50'59	1.32971 AU
desc. node	306 Jul 21 j 00:02	21° O 38'06		evening rise	307 Jun 12 j 22:29	28° II 58'46	
	306 Jul 27 j 12:04	0° M			307 Jun 13 j 10:32	0° B	
evening max el	306 Aug 02 j 07:00	6° M 13'18	27°17'50		307 Jun 30 j 08:51	0° O	
retrograde	306 Aug 15 j 17:47	13° M 32'14		desc. node	307 Jul 07 j 21:04	10° O 27'03	
evening set	306 Aug 22 j 19:23	10° M 47'42		evening max el	307 Jul 15 j 16:32	19° O 10'29	27°24'08
min. Earth dist.	306 Aug 26 j 13:14	7° M 17'20	0.64567 AU	retrograde	307 Jul 29 j 10:27	26° O 29'09	
inferior conj	306 Aug 28 j 19:53	4° M 49'05	-3°02'40	evening set	307 Aug 05 j 15:32	23° O 55'31	
minimum elong	306 Aug 29 j 00:20	4° M 37'00	3°01'14	min. Earth dist.	307 Aug 09 j 05:29	20° O 55'58	0.62903 AU
	306 Sep 03 j 01:32	30° R O		inferior conj	307 Aug 12 j 01:02	18° O 11'45	-3°51'31
morning rise	306 Sep 04 j 06:06	29° O 20'52		minimum elong	307 Aug 12 j 05:55	17° O 59'52	3°50'20
direct	306 Sep 06 j 21:59	28° O 44'04		morning rise	307 Aug 18 j 21:33	13° O 01'55	
asc. node	306 Sep 07 j 12:49	28° O 46'04		direct	307 Aug 21 j 09:48	12° O 32'42	
	306 Sep 10 j 18:25	0° M		asc. node	307 Aug 25 j 09:52	13° O 48'31	
morning max el	306 Sep 13 j 10:06	2° M 11'51	18°01'41	morning max el	307 Aug 28 j 01:50	15° O 58'11	17°52'54
morning set	306 Oct 01 j 00:27	28° M 55'48			307 Sep 06 j 22:06	0° M	
	306 Oct 01 j 15:40	0° B		morning set	307 Sep 13 j 09:45	11° M 21'15	
					307 Sep 24 j 03:20	0° B	
superior conj	306 Oct 14 j 12:54	21° B 15'06	0°16'07				
minimum elong	306 Oct 14 j 14:47	21° B 22'43	0°15'51	superior conj	307 Sep 24 j 23:32	1° B 25'02	0°57'01
behind sun begin	306 Oct 14 j 12:36	21° B 13'56		minimum elong	307 Sep 25 j 04:20	1° B 45'14	0°56'25
behind sun end	306 Oct 14 j 16:58	21° B 31'30		max. Earth dist.	307 Oct 01 j 17:22	12° B 31'18	1.43514 AU
desc. node	306 Oct 16 j 23:22	25° B 09'17		desc. node	307 Oct 03 j 20:24	15° B 56'13	
max. Earth dist.	306 Oct 19 j 01:51	28° B 29'52	1.44626 AU	evening rise	307 Oct 10 j 05:14	25° B 57'17	
	306 Oct 20 j 00:38	0° M			307 Oct 12 j 20:11	0° M	
evening rise	306 Oct 30 j 22:07	16° M 59'23			307 Nov 02 j 11:02	0° A	
	306 Nov 08 j 09:57	0° A		evening max el	307 Nov 09 j 06:04	8° A 06'40	21°11'25
greatest brilliancy	306 Nov 13 j 22:16	8° A 16'35	-0.6m	retrograde	307 Nov 17 j 20:40	13° A 13'31	
evening max el	306 Nov 26 j 06:42	24° A 38'10	20°04'20	asc. node	307 Nov 21 j 09:08	12° A 03'54	
retrograde	306 Dec 03 j 23:11	29° A 08'34		evening set	307 Nov 21 j 22:36	11° A 39'37	
asc. node	306 Dec 04 j 12:05	29° A 06'56		inferior conj	307 Nov 27 j 07:26	5° A 26'16	1°56'00
evening set	306 Dec 07 j 15:07	27° A 50'16		minimum elong	307 Nov 27 j 05:06	5° A 34'17	1°55'10
inferior conj	306 Dec 13 j 02:00	21° A 46'59	2°38'16	min. Earth dist.	307 Nov 27 j 15:59	4° A 56'48	0.67449 AU
minimum elong	306 Dec 12 j 23:16	21° A 56'10	2°37'26		307 Dec 01 j 15:34	30° R M	
min. Earth dist.	306 Dec 13 j 22:30	20° A 38'22	0.66868 AU	morning rise	307 Dec 02 j 11:27	29° M 12'53	
morning rise	306 Dec 18 j 07:14	15° A 33'58		direct	307 Dec 07 j 16:40	26° M 57'08	
direct	306 Dec 24 j 03:33	12° A 58'28			307 Dec 14 j 16:09	0° A	
morning max el	307 Jan 04 j 22:07	19° A 58'57	25°05'27	morning max el	307 Dec 18 j 06:52	3° A 15'55	23°38'41
desc. node	307 Jan 12 j 22:36	29° A 15'58		desc. node	307 Dec 30 j 19:38	18° A 39'01	
	307 Jan 13 j 12:18	0° B			308 Jan 07 j 16:54	0° B	

morning set	308 Jan 22 j 14:40	23°  45'57		desc. node	308 Dec 16 j 16:41	8°  31'14	
	308 Jan 26 j 05:21	0° 			308 Dec 30 j 19:01	0° 	
max. Earth dist.	308 Jan 26 j 14:38	0°  40'48	1.38857 AU	morning set	309 Jan 01 j 21:25	3°  22'10	
				max. Earth dist.	309 Jan 07 j 11:36	12°  34'56	1.40978 AU
superior conj	308 Feb 03 j 01:00	14°  12'19	-1°51'30				
minimum elong	308 Feb 03 j 04:29	14°  28'40	1°51'14	superior conj	309 Jan 15 j 06:29	26°  03'21	-2°01'43
	308 Feb 11 j 05:58	0° 		minimum elong	309 Jan 15 j 07:39	26°  08'33	2°01'43
evening rise	308 Feb 12 j 04:39	1°  50'23			309 Jan 17 j 11:14	0° 	
asc. node	308 Feb 17 j 08:28	11°  40'33		evening rise	309 Jan 25 j 13:45	14°  58'09	
evening max el	308 Feb 28 j 13:38	28°  14'17	18°45'03		309 Feb 02 j 21:10	0° 	
	308 Mar 01 j 15:39	0° 		asc. node	309 Feb 03 j 05:29	0°  34'46	
retrograde	308 Mar 07 j 15:14	2°  09'19		evening max el	309 Feb 10 j 20:36	10°  58'50	18°16'28
evening set	308 Mar 09 j 22:59	1°  51'04		retrograde	309 Feb 17 j 22:44	14°  30'51	
	308 Mar 14 j 02:23	30°  R 		evening set	309 Feb 20 j 11:52	14°  04'29	
inferior conj	308 Mar 17 j 17:29	27°  29'29	2°35'22	inferior conj	309 Feb 27 j 13:05	9°  22'09	3°26'26
minimum elong	308 Mar 17 j 21:47	27°  21'29	2°34'16	minimum elong	309 Feb 27 j 16:01	9°  15'45	3°26'01
min. Earth dist.	308 Mar 21 j 01:16	25°  02'22	0.57581 AU	min. Earth dist.	309 Mar 02 j 22:45	6°  26'38	0.59619 AU
morning rise	308 Mar 25 j 17:34	22°  15'56		morning rise	309 Mar 06 j 17:55	3°  44'20	
desc. node	308 Mar 27 j 18:48	21°  30'23		direct	309 Mar 13 j 05:01	1°  50'13	
direct	308 Mar 31 j 07:10	20°  59'42		desc. node	309 Mar 14 j 15:51	1°  55'49	
morning max el	308 Apr 14 j 15:28	28°  31'24	26°12'58	morning max el	309 Mar 27 j 12:14	9°  35'33	27°17'02
	308 Apr 16 j 02:42	0° 			309 Apr 12 j 04:26	0° 	
	308 May 06 j 10:17	0° 		morning set	309 Apr 27 j 12:39	28°  Y13'16	
morning set	308 May 13 j 03:50	13°  8'26'19			309 Apr 28 j 09:03	0° 	
asc. node	308 May 15 j 07:44	18°  8'02'27		asc. node	309 May 02 j 04:46	8°  8'11'36	
				max. Earth dist.	309 May 04 j 03:46	12°  8'28'40	1.32305 AU
superior conj	308 May 20 j 03:56	28°  8'36'17	0°49'14				
minimum elong	308 May 20 j 01:58	28°  8'25'31	0°48'51	superior conj	309 May 04 j 15:38	13°  8'33'50	0°25'44
max. Earth dist.	308 May 20 j 15:07	29°  8'37'40	1.32451 AU	minimum elong	309 May 04 j 14:31	13°  8'27'39	0°25'29
	308 May 20 j 19:12	0° 		evening rise	309 May 11 j 13:03	28°  8'30'54	
evening rise	308 May 27 j 03:41	13°  II39'32			309 May 12 j 06:01	0° 	
	308 Jun 04 j 12:21	0° 			309 May 29 j 00:58	0° 	
desc. node	308 Jun 23 j 18:05	28°  6'17'12		evening max el	309 Jun 08 j 20:00	13°  6'06'01	25°59'33
	308 Jun 25 j 08:48	0° 		desc. node	309 Jun 10 j 15:06	14°  6'43'34	
evening max el	308 Jun 26 j 21:31	1°  8'30'39	26°57'54	retrograde	309 Jun 22 j 21:02	20°  6'18'04	
retrograde	308 Jul 10 j 20:11	8°  8'46'59		evening set	309 Jun 29 j 01:03	18°  6'46'01	
evening set	308 Jul 17 j 18:58	6°  8'38'24		min. Earth dist.	309 Jul 03 j 08:41	16°  6'07'12	0.58899 AU
min. Earth dist.	308 Jul 21 j 11:35	3°  8'57'42	0.60957 AU	inferior conj	309 Jul 06 j 16:05	13°  6'39'40	-4°47'10
inferior conj	308 Jul 24 j 17:00	1°  8'11'58	-4°29'18	minimum elong	309 Jul 06 j 16:44	13°  6'38'26	4°47'09
minimum elong	308 Jul 24 j 20:49	1°  8'03'44	4°28'45	morning rise	309 Jul 14 j 10:43	9°  6'13'14	
	308 Jul 26 j 03:02	30°  R 		direct	309 Jul 16 j 22:49	8°  6'52'16	
morning rise	308 Aug 01 j 00:26	26°  6'23'14		morning max el	309 Jul 24 j 22:56	12°  6'41'20	18°32'49
direct	308 Aug 03 j 11:30	25°  6'59'04		asc. node	309 Jul 29 j 03:58	17°  6'37'08	
morning max el	308 Aug 10 j 15:10	29°  6'31'09	18°02'53		309 Aug 05 j 16:20	0° 	
asc. node	308 Aug 11 j 06:56	0°  8'10'52		morning set	309 Aug 10 j 03:44	8°  8'29'35	
	308 Aug 11 j 02:44	0° 					
morning set	308 Aug 26 j 12:31	24°  8'37'11		superior conj	309 Aug 19 j 01:23	25°  8'31'35	1°41'21
	308 Aug 29 j 10:12	0° 		minimum elong	309 Aug 19 j 03:43	25°  8'42'26	1°41'12
					309 Aug 21 j 11:32	0° 	
superior conj	308 Sep 05 j 13:12	12°  8'54'59	1°25'23	max. Earth dist.	309 Aug 26 j 08:38	8°  8'42'46	1.39925 AU
minimum elong	308 Sep 05 j 17:31	13°  8'14'00	1°24'57	evening rise	309 Aug 30 j 14:30	15°  8'58'18	
max. Earth dist.	308 Sep 13 j 03:27	25°  8'58'06	1.41875 AU	desc. node	309 Sep 06 j 14:26	27°  8'19'53	
	308 Sep 15 j 13:59	0° 			309 Sep 08 j 07:27	0° 	
evening rise	308 Sep 18 j 22:42	5°  8'26'32			309 Sep 29 j 20:45	0° 	
desc. node	308 Sep 19 j 17:25	6°  8'41'09		evening max el	309 Oct 04 j 13:43	5°  8'09'31	23°47'54
	308 Oct 05 j 03:18	0° 		retrograde	309 Oct 15 j 08:34	11°  8'30'40	
evening max el	308 Oct 21 j 23:55	21°  8'36'45	22°27'43	evening set	309 Oct 20 j 12:12	9°  8'21'50	
retrograde	308 Oct 31 j 16:15	27°  8'22'06		asc. node	309 Oct 25 j 03:12	4°  8'01'34	
evening set	308 Nov 05 j 06:11	25°  8'31'07		inferior conj	309 Oct 25 j 21:24	2°  8'59'40	0°15'42
asc. node	308 Nov 07 j 06:10	23°  8'32'45		minimum elong	309 Oct 25 j 21:01	3°  8'00'58	0°15'32
inferior conj	308 Nov 10 j 14:30	19°  8'11'27	1°08'00	transit middle	309 Oct 25 j 21:01	3°  8'00'58	0°15'32
minimum elong	308 Nov 10 j 12:59	19°  8'16'41	1°07'23	transit begin	309 Oct 25 j 20:12	3°  8'03'45	
min. Earth dist.	308 Nov 10 j 12:15	19°  8'19'15	0.67691 AU	transit end	309 Oct 25 j 21:50	2°  8'58'11	
morning rise	308 Nov 15 j 19:39	12° 8'59'53		min. Earth dist.	309 Oct 25 j 08:44	3° 8'42'46	0.67607 AU
direct	308 Nov 20 j 09:56	11° 8'06'32			309 Oct 28 j 04:03	30° R	
morning max el	308 Nov 29 j 18:29	16° 8'38'09	22°11'32	morning rise	309 Oct 31 j 05:48	26° 8'52'33	
	308 Dec 10 j 16:01	0°		direct	309 Nov 04 j 06:17	25° 8'21'17	

	309 Nov 12 j 08:41	0°♄		morning rise	310 Oct 15 j 15:57	10°♄49'01	
morning max el	309 Nov 12 j 12:21	0°♄09'12	20°51'42	direct	310 Oct 19 j 04:21	9°♄37'36	
desc. node	309 Dec 03 j 13:43	28°♄44'03		morning max el	310 Oct 26 j 14:00	13°♄50'46	19°44'04
	309 Dec 04 j 09:51	0°♄			310 Nov 07 j 20:08	0°♄	
morning set	309 Dec 12 j 02:05	11°♄47'15		desc. node	310 Nov 20 j 10:44	19°♄11'20	
max. Earth dist.	309 Dec 20 j 16:11	25°♄26'57	1.42856 AU	morning set	310 Nov 20 j 22:55	19°♄58'27	
	309 Dec 23 j 10:55	0°♄			310 Nov 27 j 09:36	0°♄	
				max. Earth dist.	310 Dec 03 j 04:22	9°♄07'02	1.44238 AU
superior conj	309 Dec 27 j 12:30	6°♄46'59	-1°58'50				
minimum elong	309 Dec 27 j 09:13	6°♄33'07	1°58'43	superior conj	310 Dec 07 j 15:37	16°♄16'16	-1°38'29
evening rise	310 Jan 08 j 08:14	27°♄22'23		minimum elong	310 Dec 07 j 07:51	15°♄45'00	1°37'49
	310 Jan 09 j 19:36	0°♄			310 Dec 16 j 00:33	0°♄	
asc. node	310 Jan 21 j 02:30	18°♄53'46		evening rise	310 Dec 21 j 07:42	8°♄54'26	
evening max el	310 Jan 25 j 07:51	24°♄04'09	18°07'35		311 Jan 03 j 02:48	0°♄	
retrograde	310 Jan 31 j 21:53	27°♄28'44		asc. node	311 Jan 07 j 23:32	6°♄26'20	
evening set	310 Feb 03 j 15:42	26°♄52'59		evening max el	311 Jan 08 j 20:23	7°♄21'40	18°17'49
inferior conj	310 Feb 10 j 03:09	21°♄49'24	3°47'32	retrograde	311 Jan 15 j 08:06	10°♄51'58	
minimum elong	310 Feb 10 j 03:53	21°♄47'35	3°47'31	evening set	311 Jan 18 j 06:33	10°♄06'04	
min. Earth dist.	310 Feb 13 j 03:27	18°♄50'37	0.61717 AU	inferior conj	311 Jan 24 j 07:43	4°♄42'40	3°46'12
morning rise	310 Feb 16 j 14:44	15°♄56'03		minimum elong	311 Jan 24 j 06:34	4°♄45'52	3°46'07
direct	310 Feb 23 j 12:53	13°♄29'20		min. Earth dist.	311 Jan 26 j 17:35	2°♄01'37	0.63619 AU
desc. node	310 Mar 01 j 12:54	15°♄06'32			311 Jan 28 j 17:14	30°♄	
morning max el	310 Mar 09 j 15:18	21°♄20'46	27°46'21	morning rise	311 Jan 30 j 05:54	28°♄39'42	
	310 Mar 17 j 04:25	0°♄		direct	311 Feb 06 j 04:57	25°♄52'58	
	310 Apr 05 j 04:26	0°♄			311 Feb 15 j 18:34	0°♄	
morning set	310 Apr 11 j 17:09	12°♄45'00		desc. node	311 Feb 16 j 09:57	0°♄30'44	
max. Earth dist.	310 Apr 17 j 14:30	25°♄11'04	1.32533 AU	morning max el	311 Feb 19 j 23:08	3°♄44'39	27°38'40
					311 Mar 11 j 16:02	0°♄	
superior conj	310 Apr 19 j 02:06	28°♄24'27	0°00'08	morning set	311 Mar 26 j 14:52	26°♄52'33	
minimum elong	310 Apr 19 j 02:06	28°♄24'23	0°00'08		311 Mar 28 j 04:11	0°♄	
behind sun begin	310 Apr 18 j 21:01	27°♄56'41		max. Earth dist.	311 Mar 31 j 19:13	7°♄30'09	1.33159 AU
behind sun end	310 Apr 19 j 07:11	28°♄52'06					
asc. node	310 Apr 19 j 01:48	28°♄22'46		superior conj	311 Apr 03 j 09:30	13°♄01'03	-0°26'43
	310 Apr 19 j 19:38	0°♄		minimum elong	311 Apr 03 j 10:47	13°♄07'58	0°26'26
evening rise	310 Apr 26 j 00:32	13°♄25'49		asc. node	311 Apr 05 j 22:50	18°♄31'03	
	310 May 04 j 09:34	0°♄		evening rise	311 Apr 10 j 12:14	28°♄16'34	
evening max el	310 May 21 j 12:16	24°♄00'21	24°36'09		311 Apr 11 j 07:57	0°♄	
desc. node	310 May 28 j 12:06	29°♄13'28			311 Apr 28 j 23:00	0°♄	
	310 May 30 j 04:47	0°♄		evening max el	311 May 03 j 02:46	4°♄33'26	23°01'07
retrograde	310 Jun 04 j 10:37	1°♄03'03		desc. node	311 May 15 j 09:08	11°♄10'03	
evening set	310 Jun 09 j 08:00	0°♄09'11		retrograde	311 May 16 j 11:55	11°♄12'53	
	310 Jun 09 j 17:52	30°♄		evening set	311 May 19 j 22:32	10°♄46'54	
min. Earth dist.	310 Jun 14 j 23:35	27°♄15'28	0.57000 AU	min. Earth dist.	311 May 27 j 12:01	7°♄24'56	0.55588 AU
inferior conj	310 Jun 17 j 19:26	25°♄26'03	-4°32'52	inferior conj	311 May 29 j 03:17	6°♄28'00	-3°34'41
minimum elong	310 Jun 17 j 15:17	25°♄32'46	4°32'23	minimum elong	311 May 28 j 19:58	6°♄38'39	3°32'51
morning rise	310 Jun 26 j 01:21	21°♄20'12		morning rise	311 Jun 06 j 19:57	2°♄34'18	
direct	310 Jun 28 j 15:56	21°♄01'18		direct	311 Jun 09 j 14:08	2°♄16'16	
morning max el	310 Jul 07 j 22:12	25°♄19'45	19°23'45	morning max el	311 Jun 20 j 10:52	7°♄18'07	20°35'36
	310 Jul 12 j 01:31	0°♄		asc. node	311 Jul 02 j 22:05	24°♄47'30	
asc. node	310 Jul 16 j 01:02	5°♄53'26			311 Jul 05 j 16:23	0°♄	
morning set	310 Jul 25 j 03:43	22°♄48'48		morning set	311 Jul 09 j 09:39	7°♄26'57	
	310 Jul 28 j 17:44	0°♄					
superior conj	310 Aug 02 j 06:30	8°♄59'36	1°46'51	superior conj	311 Jul 16 j 23:41	23°♄04'59	1°44'03
minimum elong	310 Aug 02 j 06:46	9°♄00'59	1°46'52	minimum elong	311 Jul 16 j 22:26	22°♄58'34	1°44'01
max. Earth dist.	310 Aug 08 j 12:04	20°♄50'19	1.37914 AU	max. Earth dist.	311 Jul 20 j 10:23	0°♄	
evening rise	310 Aug 12 j 06:53	27°♄39'45		evening rise	311 Jul 21 j 19:01	2°♄39'57	1.36071 AU
	310 Aug 13 j 14:53	0°♄			311 Jul 25 j 20:21	10°♄22'45	
desc. node	310 Aug 24 j 11:25	17°♄48'05		desc. node	311 Aug 06 j 04:40	0°♄	
	310 Sep 01 j 18:08	0°♄			311 Aug 11 j 08:26	8°♄00'26	
evening max el	310 Sep 17 j 01:30	18°♄45'27	25°05'12	evening max el	311 Aug 28 j 05:10	0°♄	
retrograde	310 Sep 28 j 20:41	25°♄35'32		retrograde	311 Aug 30 j 13:05	2°♄22'28	26°12'05
evening set	310 Oct 04 j 14:58	23°♄09'47		evening set	311 Sep 12 j 04:09	9°♄31'50	
min. Earth dist.	310 Oct 09 j 03:05	18°♄05'29	0.67199 AU	min. Earth dist.	311 Sep 18 j 12:38	6°♄52'47	
inferior conj	310 Oct 10 j 02:25	16°♄49'02	-0°39'30	inferior conj	311 Sep 22 j 16:58	2°♄25'00	0.66453 AU
minimum elong	310 Oct 10 j 03:24	16°♄45'48	0°39'04	minimum elong	311 Sep 24 j 03:44	0°♄37'23	-1°36'00
asc. node	310 Oct 12 j 00:14	14°♄22'53			311 Sep 24 j 06:12	0°♄29'46	1°35'00
					311 Sep 24 j 15:51	30°♄	

asc. node	311 Sep 28 j 21:19	25° \mathbb{M} 33'20		direct	312 Sep 15 j 23:01	8° \mathbb{M} 00'57	
morning rise	311 Sep 30 j 00:09	24° \mathbb{M} 47'17		morning max el	312 Sep 22 j 12:17	11° \mathbb{M} 34'17	18°14'48
direct	311 Oct 03 j 02:36	23° \mathbb{M} 52'18			312 Oct 05 j 09:35	0° \mathbb{L}	
morning max el	311 Oct 09 j 22:43	27° \mathbb{M} 40'58	18°51'17	morning set	312 Oct 11 j 06:06	9° \mathbb{L} 36'21	
	311 Oct 12 j 01:01	0° \mathbb{L}			312 Oct 23 j 20:35	0° \mathbb{M}	
morning set	311 Oct 31 j 12:21	29° \mathbb{L} 05'07		desc. node	312 Oct 24 j 04:46	0° \mathbb{M} 32'31	
	311 Nov 01 j 02:16	0° \mathbb{M}					
desc. node	311 Nov 07 j 07:45	9° \mathbb{M} 48'51		superior conj	312 Oct 25 j 23:03	3° \mathbb{M} 20'11	-0°11'37
max. Earth dist.	311 Nov 15 j 21:19	23° \mathbb{M} 16'28	1.44961 AU	minimum elong	312 Oct 25 j 21:33	3° \mathbb{M} 14'15	0°11'24
				behind sun begin	312 Oct 25 j 13:35	2° \mathbb{M} 42'46	
superior conj	311 Nov 16 j 21:07	24° \mathbb{M} 50'03	-1°00'12	behind sun end	312 Oct 26 j 05:30	3° \mathbb{M} 45'44	
minimum elong	311 Nov 16 j 13:47	24° \mathbb{M} 21'14	0°59'20	max. Earth dist.	312 Oct 28 j 15:52	7° \mathbb{M} 36'01	1.44956 AU
	311 Nov 20 j 03:44	0° \mathbb{X}		evening rise	312 Nov 11 j 09:45	29° \mathbb{M} 05'44	
evening rise	311 Dec 02 j 08:24	19° \mathbb{X} 28'34			312 Nov 11 j 23:40	0° \mathbb{X}	
	311 Dec 08 j 20:41	0° \mathbb{Z}		greatest brilliancy	312 Nov 23 j 07:16	17° \mathbb{X} 30'35	-0.7m
evening max el	311 Dec 23 j 07:39	20° \mathbb{Z} 46'12	18°46'17		312 Dec 02 j 00:44	0° \mathbb{Z}	
asc. node	311 Dec 25 j 20:36	22° \mathbb{Z} 59'37		evening max el	312 Dec 05 j 15:27	4° \mathbb{Z} 13'35	19°31'37
retrograde	311 Dec 30 j 01:13	24° \mathbb{Z} 33'03		asc. node	312 Dec 11 j 17:40	8° \mathbb{Z} 18'11	
evening set	312 Jan 02 j 05:09	23° \mathbb{Z} 35'55		retrograde	312 Dec 12 j 21:51	8° \mathbb{Z} 25'54	
inferior conj	312 Jan 07 j 22:59	17° \mathbb{Z} 55'01	3°28'39	evening set	312 Dec 16 j 08:50	7° \mathbb{Z} 15'58	
minimum elong	312 Jan 07 j 20:41	18° \mathbb{Z} 02'03	3°28'15	inferior conj	312 Dec 21 j 21:42	1° \mathbb{Z} 20'12	2°59'17
min. Earth dist.	312 Jan 09 j 17:31	15° \mathbb{Z} 45'15	0.65185 AU	minimum elong	312 Dec 21 j 18:57	1° \mathbb{Z} 29'11	2°58'35
morning rise	312 Jan 13 j 11:50	11° \mathbb{Z} 46'12			312 Dec 22 j 22:17	30° \mathbb{R} \mathbb{X}	
direct	312 Jan 20 j 04:06	8° \mathbb{Z} 54'03		min. Earth dist.	312 Dec 23 j 01:52	29° \mathbb{X} 48'26	0.66366 AU
morning max el	312 Feb 02 j 08:56	16° \mathbb{Z} 36'49	26°57'44	morning rise	312 Dec 27 j 04:49	25° \mathbb{X} 08'07	
desc. node	312 Feb 03 j 06:59	17° \mathbb{Z} 33'11		direct	313 Jan 02 j 09:21	22° \mathbb{X} 23'29	
	312 Feb 13 j 12:22	0° \mathbb{X}		morning max el	313 Jan 14 j 18:10	29° \mathbb{X} 43'42	25°51'19
	312 Mar 03 j 11:43	0° \mathbb{X}			313 Jan 15 j 00:36	0° \mathbb{Z}	
morning set	312 Mar 09 j 02:40	10° \mathbb{X} 26'17		desc. node	313 Jan 20 j 04:01	5° \mathbb{Z} 45'01	
max. Earth dist.	312 Mar 13 j 14:04	19° \mathbb{X} 15'46	1.34220 AU		313 Feb 06 j 09:42	0° \mathbb{X}	
				morning set	313 Feb 20 j 00:15	23° \mathbb{X} 13'03	
superior conj	312 Mar 17 j 11:48	27° \mathbb{X} 17'41	-0°53'41		313 Feb 23 j 14:57	0° \mathbb{X}	
minimum elong	312 Mar 17 j 14:24	27° \mathbb{X} 31'13	0°53'11	max. Earth dist.	313 Feb 23 j 20:48	0° \mathbb{X} 28'02	1.35732 AU
	312 Mar 18 j 18:47	0° \mathbb{Y}					
asc. node	312 Mar 22 j 19:54	8° \mathbb{Y} 32'34		superior conj	313 Mar 01 j 06:29	11° \mathbb{X} 06'45	-1°19'18
evening rise	312 Mar 24 j 22:21	12° \mathbb{Y} 57'11		minimum elong	313 Mar 01 j 10:06	11° \mathbb{X} 25'00	1°18'45
	312 Apr 02 j 17:44	0° \mathbb{Z}		evening rise	313 Mar 09 j 04:51	27° \mathbb{X} 21'09	
evening max el	312 Apr 13 j 23:00	15° \mathbb{Z} 17'11	21°29'09	asc. node	313 Mar 09 j 16:58	28° \mathbb{X} 22'51	
retrograde	312 Apr 26 j 03:15	21° \mathbb{Z} 13'11			313 Mar 10 j 12:09	0° \mathbb{Y}	
evening set	312 Apr 28 j 13:07	20° \mathbb{Z} 59'57		evening max el	313 Mar 27 j 05:57	26° \mathbb{Y} 34'12	20°10'44
desc. node	312 May 01 j 06:12	20° \mathbb{Z} 15'54			313 Mar 31 j 18:48	0° \mathbb{Z}	
inferior conj	312 May 07 j 22:46	16° \mathbb{Z} 58'57	-1°53'45	retrograde	313 Apr 06 j 17:35	1° \mathbb{Z} 36'33	
minimum elong	312 May 07 j 17:32	17° \mathbb{Z} 06'18	1°51'57	evening set	313 Apr 08 j 19:47	1° \mathbb{Z} 25'23	
min. Earth dist.	312 May 08 j 00:49	16° \mathbb{Z} 56'05	0.54982 AU		313 Apr 13 j 03:30	30° \mathbb{R} \mathbb{Y}	
morning rise	312 May 16 j 22:34	13° \mathbb{Z} 00'11		inferior conj	313 Apr 17 j 19:27	27° \mathbb{Y} 26'49	0°05'35
direct	312 May 20 j 00:59	12° \mathbb{Z} 39'12		minimum elong	313 Apr 17 j 19:42	27° \mathbb{Y} 26'26	0°05'28
morning max el	312 Jun 01 j 12:35	18° \mathbb{Z} 33'48	22°05'21	transit middle	313 Apr 17 j 19:42	27° \mathbb{Y} 26'26	0°05'28
	312 Jun 10 j 18:03	0° \mathbb{II}		transit begin	313 Apr 17 j 15:56	27° \mathbb{Y} 32'03	
asc. node	312 Jun 18 j 19:08	14° \mathbb{II} 09'50		transit end	313 Apr 17 j 23:29	27° \mathbb{Y} 20'49	
morning set	312 Jun 22 j 19:21	22° \mathbb{II} 17'27		desc. node	313 Apr 18 j 03:14	27° \mathbb{Y} 15'13	
	312 Jun 26 j 11:05	0° \mathbb{L}		min. Earth dist.	313 Apr 19 j 14:41	26° \mathbb{Y} 22'35	0.55337 AU
superior conj	312 Jun 30 j 01:14	7° \mathbb{L} 36'04	1°34'43	morning rise	313 Apr 26 j 17:48	23° \mathbb{Y} 04'39	
minimum elong	312 Jun 29 j 23:04	7° \mathbb{L} 24'40	1°34'31	direct	313 Apr 30 j 14:23	22° \mathbb{Y} 32'05	
max. Earth dist.	312 Jul 03 j 10:18	14° \mathbb{L} 37'07	1.34560 AU	morning max el	313 May 14 j 05:59	29° \mathbb{Y} 15'27	23°45'34
evening rise	312 Jul 08 j 02:03	23° \mathbb{L} 54'13			313 May 15 j 00:23	0° \mathbb{Z}	
	312 Jul 11 j 07:11	0° \mathbb{Q}		asc. node	313 Jun 05 j 16:12	3° \mathbb{II} 53'11	
desc. node	312 Jul 28 j 05:29	27° \mathbb{Q} 49'18		morning set	313 Jun 07 j 07:00	7° \mathbb{II} 15'05	
	312 Jul 29 j 18:27	0° \mathbb{M}					
evening max el	312 Aug 12 j 01:00	15° \mathbb{M} 53'33	27°00'53	superior conj	313 Jun 14 j 08:18	22° \mathbb{II} 24'12	1°20'12
retrograde	312 Aug 25 j 06:25	23° \mathbb{M} 11'53		minimum elong	313 Jun 14 j 05:49	22° \mathbb{II} 10'51	1°19'51
evening set	312 Sep 01 j 02:49	20° \mathbb{M} 26'34		max. Earth dist.	313 Jun 16 j 11:13	26° \mathbb{II} 56'49	1.33442 AU
min. Earth dist.	312 Sep 05 j 00:07	16° \mathbb{M} 35'39	0.65354 AU		313 Jun 17 j 21:53	0° \mathbb{L}	
inferior conj	312 Sep 06 j 23:17	14° \mathbb{M} 20'30	-2°31'53	evening rise	313 Jun 21 j 19:37	8° \mathbb{L} 01'46	
minimum elong	312 Sep 07 j 03:07	14° \mathbb{M} 09'30	2°30'30		313 Jul 03 j 18:25	0° \mathbb{Q}	
morning rise	312 Sep 13 j 04:05	8° \mathbb{M} 43'16		desc. node	313 Jul 15 j 02:32	17° \mathbb{Q} 04'38	
asc. node	312 Sep 14 j 18:22	8° \mathbb{M} 08'45		evening max el	313 Jul 25 j 12:17	29° \mathbb{Q} 08'22	27°24'22

	313 Jul 26 j 10:28	0°♎		retrograde	314 Jul 21 j 16:21	19°♏08'56	
retrograde	313 Aug 08 j 02:47	6°♎27'37		evening set	314 Jul 28 j 20:10	16°♏44'34	
evening set	313 Aug 15 j 06:37	3°♎46'24		min. Earth dist.	314 Aug 01 j 10:20	13°♏54'41	0.62112 AU
min. Earth dist.	313 Aug 18 j 22:25	0°♎29'47	0.63899 AU	inferior conj	314 Aug 04 j 10:33	11°♏08'04	-4°09'19
	313 Aug 19 j 10:07	30°♎♏		minimum elong	314 Aug 04 j 15:12	10°♏57'18	4°08'22
inferior conj	313 Aug 21 j 10:35	27°♏53'31	-3°24'23	morning rise	314 Aug 11 j 11:38	6°♏06'37	
minimum elong	313 Aug 21 j 15:20	27°♏41'08	3°22'59	direct	314 Aug 13 j 23:12	5°♏39'40	
morning rise	313 Aug 28 j 01:03	22°♏32'26		asc. node	314 Aug 19 j 12:26	7°♏57'56	
direct	313 Aug 30 j 15:01	21°♏59'14		morning max el	314 Aug 20 j 19:01	9°♏06'40	17°54'42
asc. node	313 Sep 01 j 15:24	22°♏19'45			314 Sep 03 j 11:33	0°♎	
morning max el	313 Sep 06 j 04:00	25°♏25'20	17°55'38	morning set	314 Sep 05 j 20:12	4°♎15'22	
	313 Sep 09 j 23:33	0°♎					
morning set	313 Sep 23 j 02:46	21°♎26'08		superior conj	314 Sep 16 j 16:51	23°♎29'35	1°10'40
	313 Sep 28 j 02:53	0°♏		minimum elong	314 Sep 16 j 21:45	23°♎50'36	1°10'05
					314 Sep 20 j 13:00	0°♏	
superior conj	313 Oct 05 j 18:27	12°♏44'54	0°34'52	max. Earth dist.	314 Sep 23 j 23:17	5°♏40'11	1.42880 AU
minimum elong	313 Oct 05 j 22:06	12°♏59'49	0°34'22	desc. node	314 Sep 27 j 22:52	12°♏06'11	
desc. node	313 Oct 11 j 01:49	21°♏19'31		evening rise	314 Oct 01 j 04:44	17°♏13'55	
max. Earth dist.	313 Oct 11 j 09:24	21°♏49'45	1.44234 AU		314 Oct 09 j 12:35	0°♎	
	313 Oct 16 j 13:34	0°♎			314 Oct 31 j 11:56	0°♎	
evening rise	313 Oct 21 j 19:13	8°♎07'31		evening max el	314 Nov 01 j 15:15	1°♎11'54	21°43'03
	313 Nov 05 j 07:14	0°♎		retrograde	314 Nov 10 j 16:15	6°♎34'31	
evening max el	313 Nov 18 j 18:14	17°♎42'23	20°31'33	evening set	314 Nov 14 j 23:10	4°♎53'20	
retrograde	313 Nov 26 j 19:29	22°♎27'22		asc. node	314 Nov 15 j 11:41	4°♎26'56	
asc. node	313 Nov 28 j 14:42	22°♎08'59			314 Nov 19 j 07:26	30°♎♎	
evening set	313 Nov 30 j 15:27	21°♎02'41		inferior conj	314 Nov 20 j 07:37	28°♎36'55	1°36'14
inferior conj	313 Dec 06 j 01:17	14°♎54'59	2°21'06	minimum elong	314 Nov 20 j 05:35	28°♎43'56	1°35'27
minimum elong	313 Dec 06 j 22:40	15°♎03'53	2°20'15	min. Earth dist.	314 Nov 20 j 11:26	28°♎23'45	0.67597 AU
min. Earth dist.	313 Dec 05 j 16:36	14°♎03'00	0.67165 AU	morning rise	314 Nov 25 j 11:52	22°♎24'20	
morning rise	313 Dec 11 j 05:42	8°♎41'41		direct	314 Nov 30 j 10:42	20°♎18'04	
direct	313 Dec 16 j 19:47	6°♎13'46		morning max el	314 Dec 10 j 11:58	26°♎16'11	23°01'11
morning max el	313 Dec 28 j 02:26	12°♎57'13	24°29'05		314 Dec 13 j 22:03	0°♎	
desc. node	314 Jan 07 j 01:03	24°♎46'19		desc. node	314 Dec 24 j 22:06	14°♎23'03	
	314 Jan 10 j 21:07	0°♎			315 Jan 04 j 11:17	0°♎	
	314 Jan 30 j 05:14	0°♎		morning set	315 Jan 14 j 01:36	15°♎21'42	
morning set	314 Feb 02 j 01:57	4°♎56'38		max. Earth dist.	315 Jan 18 j 13:43	22°♎59'10	1.39770 AU
max. Earth dist.	314 Feb 05 j 18:11	11°♎29'57	1.37647 AU		315 Jan 22 j 13:42	0°♎	
superior conj	314 Feb 12 j 14:13	24°♎18'49	-1°41'27	superior conj	315 Jan 26 j 06:45	6°♎43'04	-1°57'09
minimum elong	314 Feb 12 j 18:07	24°♎37'42	1°41'02	minimum elong	315 Jan 26 j 09:31	6°♎55'48	1°57'01
	314 Feb 15 j 12:08	0°♎		evening rise	315 Feb 04 j 21:06	24°♎50'54	
evening rise	314 Feb 21 j 05:22	11°♎21'21			315 Feb 07 j 14:05	0°♎	
asc. node	314 Feb 24 j 14:01	17°♎56'18		asc. node	315 Feb 11 j 11:03	7°♎07'02	
	314 Mar 03 j 09:16	0°♎		evening max el	315 Feb 21 j 02:59	20°♎57'19	18°30'26
evening max el	314 Mar 09 j 23:58	8°♎28'57	19°10'37	retrograde	315 Feb 28 j 17:09	24°♎40'49	
retrograde	314 Mar 18 j 19:56	12°♎44'18		evening set	315 Mar 03 j 03:17	24°♎19'15	
evening set	314 Mar 21 j 00:54	12°♎29'30		inferior conj	315 Mar 10 j 13:59	19°♎48'40	3°01'09
inferior conj	314 Mar 29 j 06:22	8°♎18'24	1°50'00	minimum elong	315 Mar 10 j 17:56	19°♎40'49	3°00'20
minimum elong	314 Mar 29 j 10:16	8°♎11'47	1°48'48	min. Earth dist.	315 Mar 14 j 00:08	17°♎06'48	0.58414 AU
min. Earth dist.	314 Apr 01 j 05:49	6°♎17'55	0.56572 AU	morning rise	315 Mar 18 j 05:53	14°♎23'43	
desc. node	314 Apr 05 j 00:16	4°♎07'05		desc. node	315 Mar 22 j 21:16	12°♎56'31	
morning rise	314 Apr 06 j 16:44	3°♎23'30		direct	315 Mar 24 j 05:33	12°♎51'51	
direct	314 Apr 11 j 15:16	2°♎26'51		morning max el	315 Apr 07 j 14:07	20°♎29'57	26°44'12
morning max el	314 Apr 25 j 20:29	9°♎44'27	25°23'42		315 Apr 15 j 18:24	0°♎	
	314 May 11 j 02:34	0°♎			315 May 03 j 17:56	0°♎	
morning set	314 May 22 j 18:51	22°♎13'13		morning set	315 May 07 j 05:18	7°♎06'06	
asc. node	314 May 23 j 13:15	23°♎50'32		asc. node	315 May 10 j 10:19	13°♎56'49	
	314 May 26 j 09:53	0°♎					
				superior conj	315 May 14 j 06:15	22°♎19'32	0°39'35
superior conj	314 May 29 j 18:35	7°♎20'47	1°01'33	minimum elong	315 May 14 j 04:36	22°♎10'28	0°39'14
minimum elong	314 May 29 j 16:18	7°♎08'20	1°01'07	max. Earth dist.	315 May 14 j 07:47	22°♎27'55	1.32346 AU
max. Earth dist.	314 May 30 j 19:34	9°♎37'01	1.32710 AU		315 May 17 j 18:25	0°♎	
evening rise	314 Jun 05 j 21:23	22°♎33'04		evening rise	315 May 21 j 04:36	7°♎19'07	
	314 Jun 09 j 14:26	0°♎			315 Jun 02 j 02:48	0°♎	
	314 Jun 27 j 16:19	0°♎		desc. node	315 Jun 18 j 20:34	22°♎49'16	
desc. node	314 Jul 01 j 23:34	5°♎31'20		evening max el	315 Jun 19 j 22:42	23°♎53'16	26°36'37
evening max el	314 Jul 07 j 20:26	11°♎52'09	27°17'02		315 Jun 28 j 16:00	0°♎	

retrograde	315 Jul 03 j 22:16	1°♌07'44			316 May 26 j 23:47	0°♏	
	315 Jul 09 j 01:29	30°♏		evening max el	316 May 31 j 18:02	5°♏08'55	25°26'28
evening set	315 Jul 10 j 15:00	29°♏13'23		desc. node	316 Jun 04 j 17:34	8°♏30'28	
min. Earth dist.	315 Jul 14 j 12:02	26°♏36'01	0.60092 AU	retrograde	316 Jun 14 j 19:00	12°♏19'04	
inferior conj	315 Jul 17 j 19:44	23°♏55'27	-4°39'55	evening set	316 Jun 20 j 11:13	11°♏03'31	
minimum elong	315 Jul 17 j 22:30	23°♏49'51	4°39'40	min. Earth dist.	316 Jun 25 j 06:02	8°♏20'18	0.58048 AU
morning rise	315 Jul 25 j 07:58	19°♏16'19		inferior conj	316 Jun 28 j 10:40	6°♏06'21	-4°45'52
direct	315 Jul 27 j 19:22	18°♏53'37		minimum elong	316 Jun 28 j 09:22	6°♏08'38	4°45'49
morning max el	315 Aug 04 j 06:21	22°♏31'01	18°13'05	morning rise	316 Jul 06 j 10:10	1°♏49'36	
asc. node	315 Aug 06 j 09:29	24°♏49'13		direct	316 Jul 08 j 23:04	1°♏29'47	
	315 Aug 10 j 03:45	0°♌		morning max el	316 Jul 17 j 10:58	5°♏29'37	18°51'56
morning set	315 Aug 20 j 04:45	17°♌48'06		asc. node	316 Jul 23 j 06:33	12°♏38'40	
	315 Aug 26 j 16:41	0°♍			316 Aug 02 j 00:57	0°♌	
				morning set	316 Aug 03 j 00:07	1°♌53'18	
superior conj	315 Aug 29 j 16:48	5°♍30'01	1°33'34				
minimum elong	315 Aug 29 j 20:20	5°♍46'00	1°33'17	superior conj	316 Aug 11 j 12:55	18°♌31'13	1°44'49
max. Earth dist.	315 Sep 06 j 07:23	18°♍50'34	1.41073 AU	minimum elong	316 Aug 11 j 14:20	18°♌37'59	1°44'46
evening rise	315 Sep 11 j 06:45	27°♍06'53			316 Aug 17 j 17:42	0°♍	
	315 Sep 13 j 01:33	0°♎		max. Earth dist.	316 Aug 18 j 10:53	1°♍16'51	1.39059 AU
desc. node	315 Sep 14 j 19:53	2°♎48'52		evening rise	316 Aug 22 j 09:16	8°♍09'18	
	315 Oct 03 j 05:27	0°♏		desc. node	316 Aug 31 j 16:54	23°♍24'04	
evening max el	315 Oct 15 j 06:59	14°♏42'18	23°01'41		316 Sep 05 j 00:22	0°♎	
retrograde	315 Oct 25 j 10:37	20°♏43'43		evening max el	316 Sep 26 j 19:33	28°♎16'28	24°21'30
evening set	315 Oct 30 j 06:17	18°♏44'52			316 Sep 28 j 15:22	0°♏	
asc. node	315 Nov 02 j 08:43	15°♏25'09		retrograde	316 Oct 08 j 01:27	4°♏51'47	
inferior conj	315 Nov 04 j 14:48	12°♏23'29	0°46'15	evening set	316 Oct 13 j 11:11	2°♏35'30	
minimum elong	315 Nov 04 j 13:44	12°♏27'09	0°45'47		316 Oct 15 j 23:13	30°♏♎	
min. Earth dist.	315 Nov 04 j 08:01	12°♏46'53	0.67693 AU	min. Earth dist.	316 Oct 18 j 03:59	27°♎10'48	0.67472 AU
morning rise	315 Nov 09 j 21:06	6°♏13'40		inferior conj	316 Oct 18 j 21:09	26°♎13'08	-0°07'25
direct	315 Nov 14 j 05:14	4°♏30'08		minimum elong	316 Oct 18 j 21:20	26°♎12'32	0°07'22
morning max el	315 Nov 23 j 02:03	9°♏42'24	21°36'22	transit middle	316 Oct 18 j 21:20	26°♎12'32	0°07'22
	315 Dec 08 j 18:45	0°♐		transit begin	316 Oct 18 j 18:53	26°♎20'44	
desc. node	315 Dec 11 j 19:07	4°♐24'41		transit end	316 Oct 18 j 23:46	26°♎04'20	
morning set	315 Dec 24 j 20:06	24°♐23'45		asc. node	316 Oct 19 j 05:45	25°♎44'17	
	315 Dec 28 j 07:58	0°♑		morning rise	316 Oct 24 j 07:30	20°♎08'34	
max. Earth dist.	315 Dec 31 j 13:47	5°♑18'29	1.41820 AU	direct	316 Oct 28 j 02:30	18°♎46'15	
				morning max el	316 Nov 04 j 23:16	23°♎18'37	20°21'09
superior conj	316 Jan 08 j 02:48	18°♑06'12	-2°02'24		316 Nov 10 j 15:24	0°♏	
minimum elong	316 Jan 08 j 02:17	18°♑04'00	2°02'23	desc. node	316 Nov 27 j 16:09	24°♏44'24	
	316 Jan 14 j 19:23	0°♒			316 Dec 01 j 02:30	0°♐	
evening rise	316 Jan 19 j 00:30	7°♒41'11		morning set	316 Dec 02 j 18:19	2°♐33'47	
asc. node	316 Jan 29 j 08:04	25°♒47'19		max. Earth dist.	316 Dec 12 j 21:13	18°♐30'40	1.43516 AU
	316 Feb 01 j 05:11	0°♓					
evening max el	316 Feb 04 j 12:03	3°♓50'59	18°10'17	superior conj	316 Dec 18 j 21:26	28°♐17'56	-1°52'30
retrograde	316 Feb 11 j 07:57	7°♓18'30		minimum elong	316 Dec 18 j 16:00	27°♐55'27	1°52'10
evening set	316 Feb 13 j 23:00	6°♓48'23			316 Dec 19 j 22:05	0°♑	
inferior conj	316 Feb 20 j 17:53	1°♓56'52	3°38'37	evening rise	316 Dec 31 j 11:25	19°♑43'57	
minimum elong	316 Feb 20 j 19:54	1°♓52'13	3°38'25		317 Jan 06 j 09:11	0°♒	
	316 Feb 22 j 20:21	30°♒♒		asc. node	317 Jan 15 j 05:05	13°♒47'55	
min. Earth dist.	316 Feb 24 j 00:31	28°♒56'51	0.60515 AU	evening max el	317 Jan 18 j 00:11	17°♒02'10	18°09'40
morning rise	316 Feb 27 j 14:56	26°♒11'09		retrograde	317 Jan 24 j 12:14	20°♒27'42	
direct	316 Mar 05 j 07:50	24°♒02'00		evening set	317 Jan 27 j 07:55	19°♒47'52	
desc. node	316 Mar 08 j 18:18	24°♒33'48		inferior conj	317 Feb 02 j 14:37	14°♒35'56	3°49'16
	316 Mar 17 j 14:14	0°♓		minimum elong	317 Feb 02 j 14:29	14°♒36'19	3°49'15
morning max el	316 Mar 19 j 13:50	1°♓51'23	27°34'09	min. Earth dist.	317 Feb 05 j 09:16	11°♒42'08	0.62563 AU
	316 Apr 09 j 00:39	0°♔		morning rise	317 Feb 08 j 19:58	8°♒37'47	
morning set	316 Apr 20 j 12:33	21°♔47'16		direct	317 Feb 15 j 19:44	6°♒00'21	
	316 Apr 24 j 09:47	0°♕		desc. node	317 Feb 23 j 15:21	8°♒45'11	
asc. node	316 Apr 26 j 07:22	4°♕07'09		morning max el	317 Mar 01 j 19:11	13°♒53'32	27°47'23
max. Earth dist.	316 Apr 26 j 20:01	5°♕16'10	1.32348 AU		317 Mar 14 j 19:07	0°♓	
					317 Apr 01 j 11:55	0°♔	
superior conj	316 Apr 27 j 17:38	7°♕14'25	0°15'05	morning set	317 Apr 04 j 14:28	6°♔09'22	
minimum elong	316 Apr 27 j 16:57	7°♕10'40	0°14'56	max. Earth dist.	317 Apr 10 j 04:26	17°♔48'35	1.32740 AU
behind sun begin	316 Apr 27 j 15:16	7°♕01'31					
behind sun end	316 Apr 27 j 18:37	7°♕19'50		superior conj	317 Apr 12 j 03:01	21°♔59'33	-0°11'11
evening rise	316 May 04 j 15:04	22°♕12'11		minimum elong	317 Apr 12 j 03:33	22°♔02'25	0°11'03
	316 May 08 j 09:54	0°♖		behind sun begin	317 Apr 11 j 23:48	21°♔42'07	

behind sun end	317 Apr 12 j 07:18	22°♄22'44		minimum elong	318 Mar 27 j 10:25	6°♄38'54	0°37'49
asc. node	317 Apr 13 j 04:25	24°♄17'19		asc. node	318 Mar 31 j 01:28	14°♄23'33	
	317 Apr 15 j 19:31	0°♄		evening rise	318 Apr 03 j 14:09	21°♄53'13	
evening rise	317 Apr 19 j 02:51	7°♄05'33			318 Apr 07 j 13:20	0°♄	
	317 May 01 j 04:53	0°♄		evening max el	318 Apr 25 j 01:08	26°♄25'38	22°20'59
evening max el	317 May 13 j 08:48	15°♄50'42	23°56'23		318 Apr 29 j 10:49	0°♄	
desc. node	317 May 22 j 14:36	21°♄59'00		retrograde	318 May 07 j 23:40	2°♄48'03	
retrograde	317 May 27 j 03:46	22°♄46'04		desc. node	318 May 09 j 11:38	2°♄43'02	
evening set	317 May 31 j 09:40	22°♄06'12		evening set	318 May 10 j 21:53	2°♄29'12	
min. Earth dist.	317 Jun 06 j 19:49	19°♄01'41	0.56307 AU		318 May 17 j 06:24	30°♄	
inferior conj	317 Jun 09 j 05:22	17°♄33'22	-4°14'03	min. Earth dist.	318 May 19 j 08:15	28°♄51'38	0.55218 AU
minimum elong	317 Jun 08 j 23:25	17°♄42'34	4°13'00	inferior conj	318 May 20 j 06:43	28°♄19'54	-2°56'15
morning rise	317 Jun 17 j 15:58	13°♄33'59		minimum elong	318 May 19 j 23:34	28°♄30'00	2°54'07
direct	317 Jun 20 j 07:39	13°♄15'46		morning rise	318 May 29 j 03:04	24°♄26'16	
morning max el	317 Jun 30 j 05:56	17°♄51'47	19°51'53	direct	318 Jun 01 j 00:06	24°♄07'28	
	317 Jul 09 j 10:35	0°♄		morning max el	318 Jun 12 j 13:42	29°♄31'18	21°11'52
asc. node	317 Jul 10 j 03:38	1°♄12'16			318 Jun 13 j 01:50	0°♄	
morning set	317 Jul 18 j 02:58	16°♄21'18		asc. node	318 Jun 27 j 00:43	20°♄19'31	
	317 Jul 24 j 20:24	0°♄			318 Jul 01 j 22:04	0°♄	
				morning set	318 Jul 02 j 10:47	1°♄05'29	
superior conj	317 Jul 25 j 23:42	2°♄16'36	1°46'34				
minimum elong	317 Jul 25 j 23:16	2°♄14'23	1°46'34	superior conj	318 Jul 09 j 20:51	16°♄33'48	1°40'49
max. Earth dist.	317 Jul 31 j 14:54	13°♄12'47	1.37095 AU	minimum elong	318 Jul 09 j 19:07	16°♄24'54	1°40'42
evening rise	317 Aug 04 j 11:15	20°♄18'52		max. Earth dist.	318 Jul 14 j 01:18	25°♄04'05	1.35386 AU
	317 Aug 10 j 00:19	0°♄			318 Jul 16 j 13:35	0°♄	
desc. node	317 Aug 18 j 13:56	13°♄46'25		evening rise	318 Jul 18 j 08:14	3°♄24'06	
	317 Aug 30 j 00:26	0°♄			318 Aug 02 j 21:50	0°♄	
evening max el	317 Sep 09 j 07:14	11°♄54'04	25°35'23	desc. node	318 Aug 05 j 10:57	3°♄49'40	
retrograde	317 Sep 21 j 11:44	18°♄53'42		evening max el	318 Aug 22 j 19:13	25°♄30'19	26°35'30
evening set	317 Sep 27 j 12:03	16°♄21'58			318 Aug 28 j 05:35	0°♄	
min. Earth dist.	317 Oct 01 j 20:53	11°♄32'43	0.66926 AU	retrograde	318 Sep 04 j 16:52	2°♄43'44	
inferior conj	317 Oct 03 j 00:52	10°♄02'55	-1°03'22	evening set	318 Sep 11 j 06:50	0°♄01'15	
minimum elong	317 Oct 03 j 02:29	9°♄57'45	1°02'41		318 Sep 11 j 07:26	30°♄	
asc. node	317 Oct 06 j 02:49	6°♄20'42		min. Earth dist.	318 Sep 15 j 08:12	25°♄49'07	0.66036 AU
morning rise	317 Oct 08 j 17:07	4°♄06'25		inferior conj	318 Sep 17 j 00:01	23°♄49'33	-1°59'53
direct	317 Oct 12 j 01:00	3°♄02'22		minimum elong	318 Sep 17 j 03:06	23°♄40'19	1°58'41
morning max el	317 Oct 19 j 04:04	7°♄04'05	19°19'33	morning rise	318 Sep 22 j 23:49	18°♄04'23	
	317 Nov 04 j 16:52	0°♄		asc. node	318 Sep 22 j 23:53	18°♄04'18	
morning set	317 Nov 11 j 19:42	11°♄01'34		direct	318 Sep 25 j 22:53	17°♄15'04	
desc. node	317 Nov 14 j 13:12	15°♄16'32		morning max el	318 Oct 02 j 15:05	20°♄55'49	18°33'40
	317 Nov 23 j 22:54	0°♄			318 Oct 09 j 16:38	0°♄	
max. Earth dist.	317 Nov 25 j 11:33	2°♄24'36	1.44640 AU	morning set	318 Oct 22 j 20:49	20°♄43'54	
					318 Oct 28 j 16:08	0°♄	
superior conj	317 Nov 28 j 14:03	7°♄19'53	-1°24'11	desc. node	318 Nov 01 j 10:14	5°♄57'03	
minimum elong	317 Nov 28 j 05:38	6°♄46'26	1°23'20				
	317 Dec 12 j 13:06	0°♄		superior conj	318 Nov 07 j 15:14	15°♄44'08	-0°40'08
evening rise	317 Dec 13 j 01:32	0°♄51'30		minimum elong	318 Nov 07 j 10:02	15°♄23'38	0°39'26
	318 Jan 01 j 03:25	0°♄		max. Earth dist.	318 Nov 08 j 06:05	16°♄42'27	1.45059 AU
evening max el	318 Jan 01 j 12:34	0°♄23'48	18°27'50		318 Nov 16 j 16:56	0°♄	
asc. node	318 Jan 02 j 02:07	0°♄57'10		evening rise	318 Nov 23 j 16:03	11°♄00'39	
retrograde	318 Jan 08 j 01:44	3°♄59'32		greatest brilliancy	318 Dec 02 j 13:11	25°♄05'03	-0.8m
evening set	318 Jan 11 j 02:26	3°♄08'56			318 Dec 05 j 17:05	0°♄	
	318 Jan 14 j 21:32	30°♄		evening max el	318 Dec 15 j 22:38	13°♄50'02	19°03'35
inferior conj	318 Jan 17 j 00:11	27°♄38'00	3°40'24	asc. node	318 Dec 19 j 23:10	17°♄00'39	
minimum elong	318 Jan 16 j 22:27	27°♄43'02	3°40'11	retrograde	318 Dec 22 j 20:41	17°♄46'25	
min. Earth dist.	318 Jan 19 j 03:33	25°♄09'01	0.64337 AU	evening set	318 Dec 26 j 03:30	16°♄43'51	
morning rise	318 Jan 22 j 17:57	21°♄32'27		inferior conj	318 Dec 31 j 18:57	10°♄56'08	3°17'24
direct	318 Jan 29 j 15:05	18°♄41'29		minimum elong	318 Dec 31 j 16:23	11°♄04'15	3°16'52
desc. node	318 Feb 10 j 12:24	24°♄55'12		min. Earth dist.	319 Jan 02 j 07:07	9°♄02'23	0.65741 AU
morning max el	318 Feb 12 j 03:58	26°♄30'18	27°24'51	morning rise	319 Jan 06 j 05:00	4°♄45'53	
	318 Feb 15 j 10:30	0°♄		direct	319 Jan 12 j 16:44	1°♄55'50	
	318 Mar 08 j 08:55	0°♄		morning max el	319 Jan 25 j 13:41	9°♄29'53	26°32'05
morning set	318 Mar 19 j 08:25	20°♄04'02		desc. node	319 Jan 28 j 09:27	12°♄29'57	
max. Earth dist.	318 Mar 24 j 05:15	29°♄53'55	1.33553 AU		319 Feb 10 j 17:48	0°♄	
	318 Mar 24 j 06:25	0°♄			319 Feb 28 j 20:07	0°♄	
				morning set	319 Mar 02 j 14:42	3°♄19'02	
superior conj	318 Mar 27 j 08:34	6°♄29'04	-0°38'12	max. Earth dist.	319 Mar 06 j 19:15	11°♄25'16	1.34814 AU

superior conj	319 Mar 11 j 07:57	20° H 34'40	-1°04'49	max. Earth dist.	320 Feb 16 j 21:43	22° \approx 30'39	1.36513 AU
minimum elong	319 Mar 11 j 11:02	20° H 50'33	1°04'17		320 Feb 20 j 19:44	0° H	
	319 Mar 15 j 20:34	0° Y					
asc. node	319 Mar 17 j 22:30	4° Y 20'41		superior conj	320 Feb 22 j 22:23	4° H 08'47	-1°29'16
evening rise	319 Mar 18 j 22:59	6° Y 27'32		minimum elong	320 Feb 23 j 02:15	4° H 27'58	1°28'46
	319 Mar 31 j 22:55	0° B		evening rise	320 Mar 02 j 03:15	20° H 42'10	
evening max el	319 Apr 07 j 01:27	7° B 20'53	20°53'41	asc. node	320 Mar 03 j 19:32	24° H 04'11	
retrograde	319 Apr 18 j 12:50	12° B 54'23			320 Mar 06 j 20:34	0° Y	
evening set	319 Apr 20 j 17:51	12° B 42'49		evening max el	320 Mar 19 j 13:04	18° Y 53'01	19°42'38
desc. node	319 Apr 26 j 08:40	10° B 44'21		retrograde	320 Mar 29 j 07:19	23° Y 34'22	
inferior conj	319 Apr 30 j 00:45	8° B 44'43	-1°03'16	evening set	320 Mar 31 j 09:46	23° Y 22'16	
minimum elong	319 Apr 29 j 21:46	8° B 48'58	1°02'12	inferior conj	320 Apr 09 j 02:09	19° Y 19'26	0°53'18
min. Earth dist.	319 Apr 30 j 21:02	8° B 15'54	0.55018 AU	minimum elong	320 Apr 09 j 04:24	19° Y 15'54	0°52'32
morning rise	319 May 09 j 01:19	4° B 38'25		min. Earth dist.	320 Apr 11 j 11:19	17° Y 50'09	0.55767 AU
direct	319 May 12 j 10:15	4° B 13'54		desc. node	320 Apr 12 j 05:41	17° Y 22'26	
morning max el	319 May 25 j 11:16	10° B 29'41	22°47'25	morning rise	320 Apr 17 j 20:32	14° Y 43'27	
	319 Jun 08 j 17:02	0° II		direct	320 Apr 22 j 03:22	14° Y 02'30	
asc. node	319 Jun 13 j 21:47	9° II 51'17		morning max el	320 May 06 j 02:49	21° Y 02'37	24°28'35
morning set	319 Jun 16 j 21:30	15° II 59'18			320 May 13 j 20:06	0° B	
	319 Jun 23 j 11:23	0° E		asc. node	320 May 30 j 18:49	29° B 40'49	
					320 May 30 j 22:29	0° II	
superior conj	319 Jun 24 j 01:00	1° E 12'28	1°29'08	morning set	320 May 31 j 09:23	0° II 57'14	
minimum elong	319 Jun 23 j 22:38	0° E 59'52	1°28'51				
max. Earth dist.	319 Jun 26 j 20:55	7° E 10'13	1.34034 AU	superior conj	320 Jun 07 j 09:39	16° II 04'30	1°12'44
evening rise	319 Jul 01 j 19:24	17° E 11'26		minimum elong	320 Jun 07 j 07:12	15° II 51'12	1°12'20
	319 Jul 08 j 15:01	0° O		max. Earth dist.	320 Jun 09 j 01:09	19° II 37'58	1.33077 AU
desc. node	319 Jul 23 j 08:00	23° O 25'24			320 Jun 13 j 23:15	0° E	
	319 Jul 28 j 06:55	0° M		evening rise	320 Jun 14 j 16:46	1° E 29'23	
evening max el	319 Aug 05 j 07:03	8° M 55'27	27°14'19		320 Jun 30 j 13:06	0° O	
retrograde	319 Aug 18 j 16:31	16° M 14'29		desc. node	320 Jul 09 j 05:02	12° O 21'40	
evening set	319 Aug 25 j 17:00	13° M 29'16		evening max el	320 Jul 17 j 17:00	21° O 57'05	27°25'16
min. Earth dist.	319 Aug 29 j 11:37	9° M 53'50	0.64780 AU	retrograde	320 Jul 31 j 10:14	29° O 16'21	
inferior conj	319 Aug 31 j 16:22	7° M 28'40	-2°54'46	evening set	320 Aug 07 j 15:14	26° O 40'14	
minimum elong	319 Aug 31 j 20:41	7° M 16'47	2°53'19	min. Earth dist.	320 Aug 11 j 05:28	23° O 36'35	0.63167 AU
morning rise	319 Sep 07 j 01:09	1° M 58'07		inferior conj	320 Aug 13 j 23:11	20° O 53'54	-3°44'45
direct	319 Sep 09 j 17:44	1° M 20'01		minimum elong	320 Aug 14 j 04:04	20° O 41'47	3°43'29
asc. node	319 Sep 09 j 20:57	1° M 20'06		morning rise	320 Aug 20 j 18:07	15° O 41'09	
morning max el	319 Sep 16 j 05:56	4° M 48'56	18°04'34	direct	320 Aug 23 j 06:41	15° O 11'02	
	319 Oct 03 j 00:13	0° A		asc. node	320 Aug 26 j 18:00	16° O 09'04	
morning set	319 Oct 04 j 02:40	1° A 50'46		morning max el	320 Aug 29 j 21:46	18° O 36'31	17°53'02
					320 Sep 07 j 04:28	0° M	
superior conj	319 Oct 17 j 22:34	24° A 32'04	0°09'02	morning set	320 Sep 15 j 08:50	14° M 07'08	
minimum elong	319 Oct 17 j 23:40	24° A 36'28	0°08'53		320 Sep 24 j 12:54	0° A	
behind sun begin	319 Oct 17 j 14:41	24° A 00'28					
behind sun end	319 Oct 18 j 08:39	25° A 12'25		superior conj	320 Sep 27 j 05:04	4° A 29'40	0°51'36
desc. node	319 Oct 19 j 07:16	26° A 42'40		minimum elong	320 Sep 27 j 09:42	4° A 48'58	0°51'00
	319 Oct 21 j 08:57	0° M		max. Earth dist.	320 Oct 03 j 16:54	15° A 07'42	1.43716 AU
max. Earth dist.	319 Oct 22 j 01:03	1° M 03'43	1.44732 AU	desc. node	320 Oct 05 j 04:19	17° A 29'39	
evening rise	319 Nov 03 j 09:18	20° M 19'48		evening rise	320 Oct 12 j 16:23	29° A 16'50	
	319 Nov 09 j 16:04	0° J			320 Oct 13 j 03:34	0° M	
greatest brilliancy	319 Nov 16 j 23:32	11° J 04'10	-0.7m		320 Nov 02 j 10:52	0° J	
evening max el	319 Nov 29 j 04:26	27° J 18'16	19°55'21	evening max el	320 Nov 11 j 04:39	10° J 46'41	21°00'44
	319 Dec 02 j 05:33	0° Z		retrograde	320 Nov 19 j 15:44	15° J 47'52	
retrograde	319 Dec 06 j 18:09	1° Z 43'55		asc. node	320 Nov 22 j 17:14	14° J 54'58	
asc. node	319 Dec 06 j 20:12	1° Z 43'53		evening set	320 Nov 23 j 16:00	14° J 16'30	
evening set	319 Dec 10 j 08:43	0° Z 27'51		inferior conj	320 Nov 29 j 01:03	8° J 04'30	2°02'49
	319 Dec 10 j 23:21	30° R J		minimum elong	320 Nov 28 j 22:38	8° J 12'49	2°01'58
inferior conj	319 Dec 15 j 20:03	24° J 26'18	2°44'02	min. Earth dist.	320 Nov 29 j 11:21	7° J 29'09	0.67388 AU
minimum elong	319 Dec 15 j 17:18	24° J 35'30	2°43'14	morning rise	320 Dec 04 j 05:05	1° J 50'58	
min. Earth dist.	319 Dec 16 j 18:28	23° J 11'43	0.66752 AU		320 Dec 07 j 02:13	30° R M	
morning rise	319 Dec 21 j 01:41	18° J 13'23		direct	320 Dec 09 j 12:37	29° M 31'53	
direct	319 Dec 27 j 00:08	15° J 35'19			320 Dec 12 j 02:38	0° J	
morning max el	320 Jan 07 j 22:41	22° J 41'33	25°17'41	morning max el	320 Dec 20 j 07:11	5° J 57'27	23°51'46
	320 Jan 14 j 09:37	0° Z		desc. node	321 Jan 01 j 03:30	20° J 22'47	
desc. node	320 Jan 15 j 06:28	1° Z 05'06			321 Jan 07 j 22:01	0° Z	
	320 Feb 04 j 01:28	0° \approx		morning set	321 Jan 24 j 19:59	26° Z 53'12	
morning set	320 Feb 13 j 04:35	15° \approx 41'00			321 Jan 26 j 15:16	0° \approx	

max. Earth dist.	321 Jan 28 j 16:53	3° \approx 37'58	1.38540 AU	morning set	322 Jan 05 j 07:08	6° \approx 34'48	
				max. Earth dist.	322 Jan 10 j 13:18	15° \approx 25'03	1.40670 AU
superior conj	321 Feb 05 j 00:13	17° \approx 01'45	-1°49'07	superior conj	322 Jan 18 j 08:45	29° \approx 01'52	-2°00'56
minimum elong	321 Feb 05 j 03:52	17° \approx 19'01	1°48'49	minimum elong	322 Jan 18 j 10:25	29° \approx 09'20	2°00'53
	321 Feb 11 j 17:17	0° \approx			322 Jan 18 j 21:41	0° \approx	
evening rise	321 Feb 14 j 00:24	4° \approx 30'03		evening rise	322 Jan 28 j 11:21	17° \approx 43'37	
asc. node	321 Feb 18 j 16:34	13° \approx 28'39		asc. node	322 Feb 04 j 03:27	0° \approx	
	321 Mar 01 j 10:31	0° \approx		evening max el	322 Feb 05 j 13:35	2° \approx 27'22	
evening max el	321 Mar 02 j 11:18	1° \approx 03'12	18°51'03	retrograde	322 Feb 13 j 17:23	13° \approx 43'57	18°19'27
retrograde	321 Mar 10 j 17:18	5° \approx 02'53		retrograde	322 Feb 20 j 22:09	17° \approx 18'19	
evening set	321 Mar 13 j 00:17	4° \approx 45'38		evening set	322 Feb 23 j 10:36	16° \approx 53'11	
inferior conj	321 Mar 20 j 21:36	0° \approx 27'03	2°24'34	inferior conj	322 Mar 02 j 14:10	12° \approx 13'55	3°20'49
minimum elong	321 Mar 21 j 01:54	0° \approx 19'14	2°23'25	minimum elong	322 Mar 02 j 17:24	12° \approx 07'01	3°20'16
	321 Mar 21 j 12:28	30° \approx 8'8		min. Earth dist.	322 Mar 06 j 00:22	9° \approx 21'11	0.59302 AU
min. Earth dist.	321 Mar 24 j 03:53	28° \approx 06'08	0.57301 AU	morning rise	322 Mar 09 j 21:51	6° \approx 39'15	
morning rise	321 Mar 29 j 00:28	25° \approx 18'07		direct	322 Mar 16 j 06:21	4° \approx 50'51	
desc. node	321 Mar 30 j 02:41	24° \approx 52'40		desc. node	322 Mar 16 j 23:43	4° \approx 52'14	
direct	321 Apr 03 j 10:20	24° \approx 07'09		morning max el	322 Mar 30 j 13:57	12° \approx 34'20	27°09'38
	321 Apr 16 j 00:31	0° \approx			322 Apr 13 j 07:38	0° \approx	
morning max el	321 Apr 17 j 18:06	1° \approx 35'48	26°00'57		322 Apr 29 j 21:58	0° \approx	
	321 May 07 j 19:30	0° \approx		morning set	322 Apr 30 j 06:09	0° \approx 42'30	
morning set	321 May 15 j 20:50	15° \approx 53'57		asc. node	322 May 04 j 12:53	9° \approx 50'55	
asc. node	321 May 17 j 15:51	19° \approx 42'36					
	321 May 22 j 09:14	0° \approx		superior conj	322 May 07 j 08:31	16° \approx 01'05	0°29'27
superior conj	321 May 22 j 20:45	1° \approx 03'11	0°52'35	minimum elong	322 May 07 j 07:14	15° \approx 54'04	0°29'11
minimum elong	321 May 22 j 18:42	0° \approx 51'54	0°52'11	max. Earth dist.	322 May 07 j 00:06	15° \approx 14'54	1.32304 AU
max. Earth dist.	321 May 23 j 11:24	2° \approx 23'25	1.32505 AU		322 May 13 j 18:58	0° \approx	
evening rise	321 May 29 j 21:10	16° \approx 08'17		evening rise	322 May 14 j 06:03	0° \approx 58'30	
	321 Jun 05 j 21:54	0° \approx			322 May 30 j 02:13	0° \approx	
	321 Jun 25 j 18:11	0° \approx		evening max el	322 Jun 11 j 22:30	16° \approx 06'14	26°10'03
desc. node	321 Jun 26 j 02:02	0° \approx 22'17		desc. node	322 Jun 12 j 23:02	17° \approx 03'03	
evening max el	321 Jun 29 j 22:56	4° \approx 24'04	27°03'57	retrograde	322 Jun 25 j 23:07	23° \approx 18'40	
retrograde	321 Jul 13 j 21:03	11° \approx 24'02		evening set	322 Jul 02 j 06:55	21° \approx 40'41	
evening set	321 Jul 20 j 21:27	9° \approx 27'30		min. Earth dist.	322 Jul 06 j 11:19	19° \approx 02'50	0.59210 AU
min. Earth dist.	321 Jul 24 j 13:07	6° \approx 44'48	0.61262 AU	inferior conj	322 Jul 09 j 19:09	16° \approx 31'22	-4°46'14
inferior conj	321 Jul 27 j 17:20	3° \approx 58'18	-4°24'38	minimum elong	322 Jul 09 j 20:26	16° \approx 28'55	4°46'11
minimum elong	321 Jul 27 j 21:27	3° \approx 49'16	4°23'59	morning rise	322 Jul 17 j 12:08	12° \approx 01'33	
	321 Aug 01 j 23:00	30° \approx 8'26		direct	322 Jul 20 j 00:03	11° \approx 40'08	
morning rise	321 Aug 03 j 23:07	29° \approx 06'04		morning max el	322 Jul 27 j 20:22	15° \approx 25'42	18°27'00
direct	321 Aug 06 j 10:12	28° \approx 41'15		asc. node	322 Jul 31 j 12:06	19° \approx 37'40	
	321 Aug 10 j 17:14	0° \approx			322 Aug 07 j 00:58	0° \approx	
morning max el	321 Aug 13 j 11:37	2° \approx 11'51	18°00'05	morning set	322 Aug 12 j 22:59	11° \approx 04'05	
asc. node	321 Aug 13 j 15:03	2° \approx 20'16					
morning set	321 Aug 29 j 09:21	27° \approx 16'28		superior conj	322 Aug 22 j 00:04	28° \approx 15'25	1°39'38
	321 Aug 30 j 20:52	0° \approx		minimum elong	322 Aug 22 j 02:43	28° \approx 02'40	1°39'28
					322 Aug 22 j 22:46	0° \approx	
superior conj	321 Sep 08 j 14:52	15° \approx 47'50	1°21'54	max. Earth dist.	322 Aug 29 j 09:56	11° \approx 32'17	1.40230 AU
minimum elong	321 Sep 08 j 19:23	16° \approx 07'40	1°21'27	evening rise	322 Sep 02 j 19:25	18° \approx 59'54	
max. Earth dist.	321 Sep 16 j 03:54	28° \approx 40'25	1.42150 AU	desc. node	322 Sep 08 j 22:23	28° \approx 54'48	
	321 Sep 16 j 23:08	0° \approx			322 Sep 09 j 14:58	0° \approx	
evening rise	321 Sep 22 j 07:18	8° \approx 38'39			322 Sep 30 j 16:40	0° \approx	
desc. node	321 Sep 22 j 01:21	8° \approx 14'58		evening max el	322 Oct 07 j 13:36	7° \approx 48'31	23°36'00
	321 Oct 06 j 08:02	0° \approx		retrograde	322 Oct 18 j 04:28	14° \approx 04'33	
evening max el	321 Oct 24 j 23:19	24° \approx 16'21	22°16'00	evening set	322 Oct 23 j 06:02	11° \approx 58'14	
retrograde	321 Nov 03 j 11:37	29° \approx 55'41		asc. node	322 Oct 27 j 11:18	7° \approx 10'28	
evening set	321 Nov 07 j 23:40	28° \approx 07'20		min. Earth dist.	322 Oct 28 j 03:53	6° \approx 14'18	0.67639 AU
asc. node	321 Nov 09 j 14:15	26° \approx 35'33		inferior conj	322 Oct 28 j 15:02	5° \approx 36'14	0°23'52
inferior conj	321 Nov 13 j 07:59	21° \approx 48'28	1°15'36	minimum elong	322 Oct 28 j 14:28	5° \approx 38'10	0°23'37
minimum elong	321 Nov 13 j 06:19	21° \approx 54'13	1°14'56		322 Nov 02 j 07:38	30° \approx 8'26	
min. Earth dist.	321 Nov 13 j 07:18	21° \approx 50'49	0.67678 AU	morning rise	322 Nov 02 j 22:49	29° \approx 28'26	
morning rise	321 Nov 18 j 12:49	15° \approx 36'35		direct	322 Nov 07 j 01:16	27° \approx 54'02	
direct	321 Nov 23 j 05:20	13° \approx 39'46			322 Nov 12 j 06:54	0° \approx	
morning max el	321 Dec 02 j 18:03	19° \approx 18'04	22°24'11	morning max el	322 Nov 15 j 10:54	2° \approx 47'48	21°02'57
	321 Dec 11 j 16:46	0° \approx		desc. node	322 Dec 05 j 21:36	0° \approx 21'04	
desc. node	321 Dec 19 j 00:33	10° \approx 10'58			322 Dec 05 j 15:58	0° \approx	
	322 Jan 01 j 02:55	0° \approx		morning set	322 Dec 15 j 14:58	15° \approx 15'02	

max. Earth dist.	322 Dec 23 j 16:57	28° ♁ 09'42	1.42601 AU		323 Nov 08 j 23:58	0° ♁	
	322 Dec 24 j 19:54	0° ♁		desc. node	323 Nov 22 j 18:38	20° ♁ 46'21	
				morning set	323 Nov 24 j 11:17	23° ♁ 23'12	
superior conj	322 Dec 30 j 18:35	9° ♁ 56'09	-2°00'19		323 Nov 28 j 17:31	0° ♁	
minimum elong	322 Dec 30 j 16:04	9° ♁ 45'26	2°00'15	max. Earth dist.	323 Dec 06 j 03:59	11° ♁ 42'54	1.44069 AU
evening rise	323 Jan 11 j 08:19	0° ♁ 15'04					
	323 Jan 11 j 04:57	0° ♁		superior conj	323 Dec 11 j 01:37	19° ♁ 35'38	-1°42'46
asc. node	323 Jan 23 j 10:38	20° ♁ 52'19		minimum elong	323 Dec 10 j 18:21	19° ♁ 06'07	1°42'12
evening max el	323 Jan 28 j 04:12	26° ♁ 46'34	18°07'40		323 Dec 17 j 09:30	0° ♁	
	323 Feb 02 j 06:15	0° ♁		evening rise	323 Dec 24 j 10:53	11° ♁ 55'03	
retrograde	323 Feb 03 j 19:25	0° ♁ 11'31			324 Jan 04 j 05:35	0° ♁	
	323 Feb 05 j 08:54	30° ♁		asc. node	324 Jan 10 j 07:41	8° ♁ 32'27	
evening set	323 Feb 06 j 12:32	29° ♁ 37'14		evening max el	324 Jan 11 j 16:41	10° ♁ 02'14	18°15'08
inferior conj	323 Feb 13 j 01:47	24° ♁ 36'36	3°45'56	retrograde	324 Jan 18 j 04:18	13° ♁ 31'06	
minimum elong	323 Feb 13 j 02:51	24° ♁ 34'01	3°45'52	evening set	324 Jan 21 j 01:58	12° ♁ 46'50	
min. Earth dist.	323 Feb 16 j 03:51	21° ♁ 36'54	0.61411 AU	inferior conj	324 Jan 27 j 04:28	7° ♁ 26'19	3°47'30
morning rise	323 Feb 19 j 15:42	18° ♁ 45'00		minimum elong	324 Jan 27 j 03:34	7° ♁ 28'49	3°47'28
direct	323 Feb 26 j 12:48	16° ♁ 22'36		min. Earth dist.	324 Jan 29 j 16:39	4° ♁ 41'25	0.63353 AU
desc. node	323 Mar 03 j 20:45	17° ♁ 39'21		morning rise	324 Feb 02 j 04:22	1° ♁ 24'20	
morning max el	323 Mar 12 j 16:15	24° ♁ 13'28	27°44'23		324 Feb 04 j 06:24	30° ♁	
	323 Mar 17 j 22:03	0° ♁		direct	324 Feb 09 j 03:47	28° ♁ 39'33	
	323 Apr 06 j 14:14	0° ♁			324 Feb 14 j 10:08	0° ♁	
morning set	323 Apr 14 j 11:26	15° ♁ 16'39		desc. node	324 Feb 18 j 17:48	2° ♁ 45'17	
max. Earth dist.	323 Apr 20 j 11:26	27° ♁ 59'12	1.32476 AU	morning max el	324 Feb 22 j 23:37	6° ♁ 32'09	27°42'01
asc. node	323 Apr 21 j 09:57	0° ♁ 01'42			324 Mar 11 j 21:39	0° ♁	
	323 Apr 21 j 09:38	0° ♁		morning set	324 Mar 28 j 10:22	29° ♁ 28'16	
					324 Mar 28 j 16:42	0° ♁	
superior conj	323 Apr 21 j 19:17	0° ♁ 52'36	0°04'08	max. Earth dist.	324 Apr 02 j 17:16	10° ♁ 22'06	1.33037 AU
minimum elong	323 Apr 21 j 19:05	0° ♁ 51'33	0°04'06				
behind sun begin	323 Apr 21 j 14:09	0° ♁ 24'36		superior conj	324 Apr 05 j 03:16	15° ♁ 31'31	-0°22'36
behind sun end	323 Apr 22 j 00:02	1° ♁ 18'31		minimum elong	324 Apr 05 j 04:22	15° ♁ 37'22	0°22'22
evening rise	323 Apr 28 j 17:21	15° ♁ 52'51		asc. node	324 Apr 07 j 07:00	20° ♁ 10'29	
	323 May 05 j 18:25	0° ♁			324 Apr 11 j 20:46	0° ♁	
evening max el	323 May 24 j 15:22	27° ♁ 04'50	24°49'36	evening rise	324 Apr 12 j 05:10	0° ♁ 44'21	
	323 May 28 j 00:46	0° ♁			324 Apr 28 j 16:02	0° ♁	
desc. node	323 May 30 j 20:03	1° ♁ 52'25		evening max el	324 May 05 j 05:41	7° ♁ 39'03	23°15'25
retrograde	323 Jun 07 j 14:34	4° ♁ 09'51		desc. node	324 May 16 j 17:03	14° ♁ 14'06	
evening set	323 Jun 12 j 17:10	3° ♁ 10'32		retrograde	324 May 18 j 18:01	14° ♁ 23'34	
min. Earth dist.	323 Jun 18 j 02:47	0° ♁ 20'03	0.57260 AU	evening set	324 May 22 j 09:20	13° ♁ 54'29	
	323 Jun 18 j 15:15	30° ♁		min. Earth dist.	324 May 29 j 15:31	10° ♁ 37'22	0.55747 AU
inferior conj	323 Jun 21 j 01:30	28° ♁ 23'42	-4°37'42	inferior conj	324 May 31 j 12:03	9° ♁ 31'58	-3°46'34
minimum elong	323 Jun 20 j 22:06	28° ♁ 29'21	4°37'22	minimum elong	324 May 31 j 04:55	9° ♁ 42'29	3°44'55
morning rise	323 Jun 29 j 05:47	24° ♁ 15'22		morning rise	324 Jun 09 j 03:12	5° ♁ 37'20	
direct	323 Jul 01 j 19:58	23° ♁ 56'15		direct	324 Jun 11 j 20:33	5° ♁ 19'23	
morning max el	323 Jul 10 j 21:06	28° ♁ 09'15	19°14'52	morning max el	324 Jun 22 j 11:30	10° ♁ 14'15	20°23'42
	323 Jul 12 j 16:23	0° ♁		asc. node	324 Jul 04 j 06:15	26° ♁ 36'02	
asc. node	323 Jul 18 j 09:11	7° ♁ 46'57			324 Jul 06 j 02:33	0° ♁	
morning set	323 Jul 27 j 21:52	25° ♁ 19'42		morning set	324 Jul 11 j 03:07	9° ♁ 55'35	
	323 Jul 30 j 06:05	0° ♁					
superior conj	323 Aug 05 j 03:01	11° ♁ 36'49	1°46'36	superior conj	324 Jul 18 j 18:44	25° ♁ 37'43	1°44'57
minimum elong	323 Aug 05 j 03:35	11° ♁ 39'34	1°46'36	minimum elong	324 Jul 18 j 17:40	25° ♁ 32'20	1°44'54
max. Earth dist.	323 Aug 11 j 13:17	23° ♁ 44'10	1.38206 AU		324 Jul 20 j 22:59	0° ♁	
evening rise	323 Aug 15 j 08:17	0° ♁ 31'07		max. Earth dist.	324 Jul 23 j 19:14	5° ♁ 34'30	1.36324 AU
	323 Aug 15 j 01:11	0° ♁		evening rise	324 Jul 27 j 18:59	13° ♁ 06'11	
desc. node	323 Aug 26 j 19:24	19° ♁ 24'55			324 Aug 06 j 12:35	0° ♁	
	323 Sep 02 j 21:46	0° ♁		desc. node	324 Aug 12 j 16:26	9° ♁ 40'14	
evening max el	323 Sep 20 j 01:29	21° ♁ 23'42	24°54'09		324 Aug 27 j 19:59	0° ♁	
retrograde	323 Oct 01 j 17:20	28° ♁ 10'22		evening max el	324 Sep 01 j 13:02	5° ♁ 01'04	26°03'03
evening set	323 Oct 07 j 09:26	25° ♁ 46'52		retrograde	324 Sep 14 j 01:39	12° ♁ 08'32	
min. Earth dist.	323 Oct 11 j 22:42	20° ♁ 37'19	0.67279 AU	evening set	324 Sep 20 j 08:01	9° ♁ 31'10	
inferior conj	323 Oct 12 j 20:27	19° ♁ 25'32	-0°31'01	min. Earth dist.	324 Sep 24 j 13:29	4° ♁ 57'44	0.66587 AU
minimum elong	323 Oct 12 j 21:14	19° ♁ 22'59	0°30'41	inferior conj	324 Sep 25 j 22:29	3° ♁ 14'33	-1°27'25
asc. node	323 Oct 14 j 08:23	17° ♁ 29'02		minimum elong	324 Sep 26 j 00:43	3° ♁ 07'33	1°26'29
morning rise	323 Oct 18 j 09:07	13° ♁ 24'20			324 Sep 28 j 16:08	30° ♁	
direct	323 Oct 21 j 23:08	12° ♁ 10'17		asc. node	324 Sep 30 j 05:26	28° ♁ 29'20	
morning max el	323 Oct 29 j 11:29	16° ♁ 28'05	19°53'13	morning rise	324 Oct 01 j 17:46	27° ♁ 22'41	
				direct	324 Oct 04 j 21:31	26° ♁ 25'32	

	324 Oct 11 j 12:17	0°♄		morning set	325 Oct 14 j 10:32	12°♄37'05	
morning max el	324 Oct 11 j 19:17	0°♄17'24	18°58'04		325 Oct 25 j 05:08	0°♄	
	324 Nov 01 j 09:53	0°♄		desc. node	325 Oct 26 j 12:45	2°♄05'40	
morning set	324 Nov 02 j 21:05	2°♄18'17					
desc. node	324 Nov 08 j 15:42	11°♄22'38		superior conj	325 Oct 29 j 10:34	6°♄42'01	-0°19'07
max. Earth dist.	324 Nov 17 j 20:09	25°♄48'00	1.44903 AU	minimum elong	325 Oct 29 j 08:04	6°♄32'09	0°18'47
				max. Earth dist.	325 Oct 31 j 14:40	10°♄07'19	1.45010 AU
superior conj	324 Nov 19 j 09:31	28°♄15'11	-1°06'56		325 Nov 13 j 07:16	0°♄	
minimum elong	324 Nov 19 j 01:42	27°♄44'20	1°06'01	evening rise	325 Nov 14 j 19:43	2°♄22'37	
	324 Nov 20 j 12:05	0°♄		greatest brilliancy	325 Nov 26 j 00:11	19°♄47'23	-0.7m
evening rise	324 Dec 04 j 15:07	22°♄37'30			325 Dec 02 j 22:35	0°♄	
	324 Dec 09 j 03:50	0°♄		evening max el	325 Dec 08 j 12:46	6°♄53'06	19°23'52
evening max el	324 Dec 25 j 04:18	23°♄25'42	18°40'58	asc. node	325 Dec 14 j 01:44	10°♄46'13	
asc. node	324 Dec 27 j 04:44	25°♄15'15		retrograde	325 Dec 15 j 16:45	11°♄00'54	
retrograde	324 Dec 31 j 20:32	27°♄09'22		evening set	325 Dec 19 j 02:37	9°♄52'55	
evening set	325 Jan 03 j 23:34	26°♄14'03		inferior conj	325 Dec 24 j 16:06	3°♄59'15	3°04'20
inferior conj	325 Jan 09 j 18:20	20°♄35'43	3°32'05	minimum elong	325 Dec 24 j 13:22	4°♄08'04	3°03'41
minimum elong	325 Jan 09 j 16:10	20°♄42'17	3°31'45	min. Earth dist.	325 Dec 25 j 22:19	2°♄21'38	0.66219 AU
min. Earth dist.	325 Jan 11 j 15:11	18°♄20'34	0.64979 AU		325 Dec 27 j 20:32	30°♄	
morning rise	325 Jan 15 j 08:20	14°♄27'36		morning rise	325 Dec 29 j 23:53	27°♄47'39	
direct	325 Jan 22 j 02:05	11°♄35'11		direct	326 Jan 05 j 06:26	25°♄01'13	
morning max el	325 Feb 04 j 09:13	19°♄20'13	27°05'37		326 Jan 15 j 05:00	0°♄	
desc. node	325 Feb 04 j 14:52	19°♄34'26		morning max el	326 Jan 17 j 18:30	2°♄25'18	26°02'27
	325 Feb 13 j 11:48	0°♄		desc. node	326 Jan 22 j 11:55	7°♄37'23	
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morning set	325 Mar 11 j 23:52	13°♄07'34		morning set	326 Feb 22 j 23:52	26°♄02'13	
max. Earth dist.	325 Mar 16 j 13:37	22°♄12'04	1.34028 AU		326 Feb 25 j 02:35	0°♄	
				max. Earth dist.	326 Feb 26 j 22:09	3°♄28'44	1.35478 AU
superior conj	325 Mar 20 j 06:29	29°♄51'30	-0°49'38				
minimum elong	325 Mar 20 j 08:53	0°♄04'06	0°49'11	superior conj	326 Mar 04 j 02:29	13°♄45'20	-1°15'35
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asc. node	325 Mar 25 j 04:03	10°♄13'08		evening rise	326 Mar 11 j 22:47	29°♄53'36	
evening rise	325 Mar 27 j 15:37	15°♄26'39		asc. node	326 Mar 12 j 01:04	0°♄05'19	
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retrograde	325 Apr 29 j 10:17	24°♄23'03			326 Mar 30 j 18:16	0°♄	
evening set	325 May 01 j 22:42	24°♄08'48		retrograde	326 Apr 09 j 23:43	4°♄41'13	
desc. node	325 May 03 j 14:05	23°♄45'03		evening set	326 Apr 12 j 02:19	4°♄30'07	
inferior conj	325 May 11 j 08:40	20°♄06'13	-2°11'04	desc. node	326 Apr 20 j 11:06	0°♄57'17	
minimum elong	325 May 11 j 02:47	20°♄14'30	2°09'07	inferior conj	326 Apr 21 j 04:12	0°♄32'17	-0°12'18
min. Earth dist.	325 May 11 j 04:19	20°♄12'20	0.55009 AU	minimum elong	326 Apr 21 j 03:38	0°♄33'07	0°12'05
morning rise	325 May 20 j 07:46	16°♄09'18		transit middle	326 Apr 21 j 03:38	0°♄33'07	0°12'05
direct	325 May 23 j 08:29	15°♄49'05		transit begin	326 Apr 21 j 01:01	0°♄36'58	
morning max el	325 Jun 04 j 14:44	21°♄35'56	21°51'04	transit end	326 Apr 21 j 06:15	0°♄29'16	
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					326 May 14 j 15:13	0°♄	
superior conj	325 Jul 02 j 19:13	10°♄05'23	1°36'30	morning max el	326 May 17 j 08:58	2°♄21'04	23°30'24
minimum elong	325 Jul 02 j 17:09	9°♄54'33	1°36'19		326 Jun 05 j 05:12	0°♄	
max. Earth dist.	325 Jul 06 j 09:07	17°♄29'08	1.34761 AU	asc. node	326 Jun 08 j 00:21	5°♄35'02	
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evening max el	325 Aug 15 j 01:01	18°♄33'55	26°55'04		326 Jun 19 j 11:32	0°♄	
retrograde	325 Aug 28 j 04:40	25°♄51'17		max. Earth dist.	326 Jun 19 j 08:45	29°♄45'20	1.33587 AU
evening set	325 Sep 03 j 23:28	23°♄06'32		evening rise	326 Jun 24 j 14:34	10°♄33'40	
min. Earth dist.	325 Sep 07 j 21:49	19°♄10'02	0.65543 AU		326 Jul 05 j 02:29	0°♄	
inferior conj	325 Sep 09 j 19:01	16°♄58'48	-2°23'33	desc. node	326 Jul 17 j 10:27	18°♄53'36	
minimum elong	325 Sep 09 j 22:40	16°♄48'13	2°22'12		326 Jul 26 j 15:41	0°♄	
morning rise	325 Sep 15 j 22:28	11°♄19'18		evening max el	326 Jul 28 j 12:34	1°♄51'38	27°22'42
asc. node	325 Sep 17 j 02:29	10°♄50'33		retrograde	326 Aug 11 j 01:48	9°♄10'35	
direct	325 Sep 18 j 18:23	10°♄35'17		evening set	326 Aug 18 j 04:58	6°♄28'02	
morning max el	325 Sep 25 j 08:13	14°♄10'21	18°19'07	min. Earth dist.	326 Aug 21 j 21:28	3°♄06'41	0.64141 AU
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































































































































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	326 Aug 24 j 20:15	30° \mathcal{R} \mathcal{Q}		direct	327 Aug 16 j 20:47	8° \mathcal{Q} 18'35	
morning rise	326 Aug 30 j 20:38	25° \mathcal{Q} 09'24		asc. node	327 Aug 21 j 20:36	10° \mathcal{Q} 12'34	
direct	326 Sep 02 j 11:14	24° \mathcal{Q} 34'58		morning max el	327 Aug 23 j 15:04	11° \mathcal{Q} 44'45	17°53'40
asc. node	326 Sep 03 j 23:32	24° \mathcal{Q} 46'42			327 Sep 04 j 20:46	0° \mathbb{M}	
morning max el	326 Sep 08 j 23:44	28° \mathcal{Q} 01'29	17°57'20	morning set	327 Sep 08 j 18:12	6° \mathbb{M} 57'15	
	326 Sep 10 j 18:49	0° \mathbb{M}					
morning set	326 Sep 26 j 03:29	24° \mathbb{M} 15'56		superior conj	327 Sep 19 j 20:37	26° \mathbb{M} 28'05	1°06'04
	326 Sep 29 j 12:17	0° $\underline{\mathcal{A}}$		minimum elong	327 Sep 20 j 01:33	26° \mathbb{M} 49'04	1°05'29
					327 Sep 21 j 22:43	0° $\underline{\mathcal{A}}$	
superior conj	326 Oct 09 j 02:19	15° $\underline{\mathcal{A}}$ 55'27	0°28'25	max. Earth dist.	327 Sep 26 j 23:26	8° $\underline{\mathcal{A}}$ 19'02	1.43112 AU
minimum elong	326 Oct 09 j 05:26	16° $\underline{\mathcal{A}}$ 08'05	0°27'59	desc. node	327 Sep 30 j 06:48	13° $\underline{\mathcal{A}}$ 38'52	
desc. node	326 Oct 13 j 09:46	22° $\underline{\mathcal{A}}$ 52'06		evening rise	327 Oct 04 j 15:00	20° $\underline{\mathcal{A}}$ 30'01	
max. Earth dist.	326 Oct 14 j 08:51	24° $\underline{\mathcal{A}}$ 24'02	1.44386 AU		327 Oct 10 j 19:18	0° \mathbb{M}	
	326 Oct 17 j 21:51	0° \mathbb{M}			327 Nov 01 j 03:23	0° \mathcal{Z}	
evening rise	326 Oct 25 j 06:41	11° \mathbb{M} 27'29		evening max el	327 Nov 04 j 14:09	3° \mathcal{Z} 50'54	21°31'47
	326 Nov 06 j 11:57	0° \mathcal{Z}		retrograde	327 Nov 13 j 11:26	9° \mathcal{Z} 08'03	
evening max el	326 Nov 21 j 16:21	20° \mathcal{Z} 21'47	20°21'46	evening set	327 Nov 17 j 16:35	7° \mathcal{Z} 29'22	
retrograde	326 Nov 29 j 14:22	25° \mathcal{Z} 01'25		asc. node	327 Nov 17 j 19:48	7° \mathcal{Z} 22'56	
asc. node	326 Nov 30 j 22:45	24° \mathcal{Z} 51'05		inferior conj	327 Nov 23 j 01:08	1° \mathcal{Z} 13'55	1°43'26
evening set	326 Dec 03 j 08:54	23° \mathcal{Z} 38'58		minimum elong	327 Nov 22 j 22:59	1° \mathcal{Z} 21'19	1°42'37
inferior conj	326 Dec 08 j 19:05	17° \mathcal{Z} 32'44	2°27'23	min. Earth dist.	327 Nov 23 j 06:33	0° \mathcal{Z} 55'10	0.67554 AU
minimum elong	326 Dec 08 j 16:24	17° \mathcal{Z} 41'47	2°26'31		327 Nov 23 j 22:36	30° \mathcal{R} \mathbb{M}	
min. Earth dist.	326 Dec 09 j 12:09	16° \mathcal{Z} 35'01	0.67071 AU	morning rise	327 Nov 28 j 05:15	25° \mathbb{M} 01'01	
morning rise	326 Dec 13 j 23:44	11° \mathcal{Z} 19'35		direct	327 Dec 03 j 06:16	22° \mathbb{M} 51'28	
direct	326 Dec 19 j 16:03	8° \mathcal{Z} 48'56		morning max el	327 Dec 13 j 12:06	28° \mathbb{M} 56'50	23°14'15
morning max el	326 Dec 31 j 02:53	15° \mathcal{Z} 38'22	24°41'56		327 Dec 14 j 12:31	0° \mathcal{Z}	
desc. node	327 Jan 09 j 08:58	26° \mathcal{Z} 32'15		desc. node	327 Dec 27 j 06:01	16° \mathcal{Z} 04'24	
	327 Jan 11 j 23:07	0° \mathcal{Z}			328 Jan 05 j 18:00	0° \mathcal{Z}	
	327 Jan 31 j 14:30	0° \approx		morning set	328 Jan 17 j 08:47	18° \mathcal{Z} 33'40	
morning set	327 Feb 05 j 04:53	7° \approx 55'55		max. Earth dist.	328 Jan 21 j 16:02	25° \mathcal{Z} 53'48	1.39455 AU
max. Earth dist.	327 Feb 08 j 20:46	14° \approx 30'51	1.37347 AU		328 Jan 24 j 00:11	0° \approx	
superior conj	327 Feb 15 j 12:02	27° \approx 03'12	-1°38'26	superior conj	328 Jan 29 j 07:08	9° \approx 35'10	-1°55'21
minimum elong	327 Feb 15 j 15:59	27° \approx 22'22	1°38'00	minimum elong	328 Jan 29 j 10:12	9° \approx 49'23	1°55'10
	327 Feb 17 j 00:12	0° \mathcal{H}		evening rise	328 Feb 07 j 17:36	27° \approx 32'15	
evening rise	327 Feb 24 j 00:20	13° \mathcal{H} 57'38			328 Feb 09 j 00:23	0° \mathcal{H}	
asc. node	327 Feb 26 j 22:05	19° \mathcal{H} 41'24		asc. node	328 Feb 13 j 19:07	8° \mathcal{H} 55'56	
	327 Mar 04 j 13:09	0° \mathcal{Y}		evening max el	328 Feb 24 j 00:09	23° \mathcal{H} 43'07	18°35'04
evening max el	327 Mar 12 j 22:19	11° \mathcal{Y} 19'32	19°18'15	retrograde	328 Mar 02 j 18:06	27° \mathcal{H} 30'24	
retrograde	327 Mar 21 j 23:45	15° \mathcal{Y} 41'14		evening set	328 Mar 05 j 03:23	27° \mathcal{H} 10'04	
evening set	327 Mar 24 j 03:58	15° \mathcal{Y} 27'15		inferior conj	328 Mar 12 j 16:45	22° \mathcal{H} 42'37	2°52'42
inferior conj	327 Apr 01 j 12:19	11° \mathcal{Y} 18'25	1°36'08	minimum elong	328 Mar 12 j 20:52	22° \mathcal{H} 34'37	2°51'44
minimum elong	327 Apr 01 j 15:55	11° \mathcal{Y} 12'26	1°34'59	min. Earth dist.	328 Mar 16 j 02:22	20° \mathcal{H} 05'24	0.58117 AU
min. Earth dist.	327 Apr 04 j 08:33	9° \mathcal{Y} 25'44	0.56342 AU	morning rise	328 Mar 20 j 11:31	17° \mathcal{H} 21'22	
desc. node	327 Apr 07 j 08:07	7° \mathcal{Y} 40'27		desc. node	328 Mar 24 j 05:09	16° \mathcal{H} 06'25	
morning rise	327 Apr 10 j 01:02	6° \mathcal{Y} 28'29		direct	328 Mar 26 j 07:46	15° \mathcal{H} 55'05	
direct	327 Apr 14 j 19:24	5° \mathcal{Y} 36'24		morning max el	328 Apr 09 j 16:28	23° \mathcal{H} 31'14	26°33'56
morning max el	327 Apr 28 j 23:30	12° \mathcal{Y} 49'42	25°09'55		328 Apr 15 j 12:28	0° \mathcal{Y}	
	327 May 12 j 07:18	0° \mathcal{B}			328 May 04 j 05:23	0° \mathcal{B}	
morning set	327 May 25 j 11:42	24° \mathcal{B} 39'08		morning set	328 May 08 j 22:28	9° \mathcal{B} 33'02	
asc. node	327 May 25 j 21:24	25° \mathcal{B} 30'19		asc. node	328 May 11 j 18:26	15° \mathcal{B} 35'14	
	327 May 27 j 23:48	0° \mathbb{I}					
				superior conj	328 May 15 j 23:03	24° \mathcal{B} 45'02	0°43'05
superior conj	327 Jun 01 j 11:28	9° \mathbb{I} 46'17	1°04'35	minimum elong	328 May 15 j 21:17	24° \mathcal{B} 35'19	0°42'44
minimum elong	327 Jun 01 j 09:08	9° \mathbb{I} 33'32	1°04'11	max. Earth dist.	328 May 16 j 03:58	25° \mathcal{B} 11'57	1.32372 AU
max. Earth dist.	327 Jun 02 j 16:11	12° \mathbb{I} 22'38	1.32793 AU		328 May 18 j 08:32	0° \mathbb{I}	
evening rise	327 Jun 08 j 15:16	25° \mathbb{I} 01'31		evening rise	328 May 22 j 21:49	9° \mathbb{I} 45'39	
	327 Jun 11 j 02:23	0° \mathcal{E}			328 Jun 02 j 10:12	0° \mathcal{E}	
	327 Jun 28 j 16:21	0° \mathcal{Q}		desc. node	328 Jun 20 j 04:27	24° \mathcal{E} 58'21	
desc. node	327 Jul 04 j 07:27	7° \mathcal{Q} 28'28		evening max el	328 Jun 22 j 00:25	26° \mathcal{E} 47'55	26°44'43
evening max el	327 Jul 10 j 21:14	14° \mathcal{Q} 40'20	27°20'13		328 Jun 25 j 18:39	0° \mathcal{Q}	
retrograde	327 Jul 24 j 16:23	21° \mathcal{Q} 57'40		retrograde	328 Jul 05 j 23:44	4° \mathcal{Q} 03'15	
evening set	327 Jul 31 j 20:56	19° \mathcal{Q} 29'43		evening set	328 Jul 12 j 18:53	2° \mathcal{Q} 03'38	
min. Earth dist.	327 Aug 04 j 10:52	16° \mathcal{Q} 36'47	0.62395 AU		328 Jul 15 j 20:14	30° \mathcal{R} \mathcal{E}	
inferior conj	327 Aug 07 j 09:32	13° \mathcal{Q} 50'43	-4°03'17	min. Earth dist.	328 Jul 16 j 14:01	29° \mathcal{E} 25'33	0.60394 AU
minimum elong	327 Aug 07 j 14:18	13° \mathcal{Q} 39'28	4°02'15	inferior conj	328 Jul 19 j 21:09	26° \mathcal{E} 42'40	-4°36'42

minimum elong	328 Jul 20 j 00:21	26° \mathfrak{D} 36'03	4°36'20	minimum elong	329 Jul 01 j 14:28	9° \mathfrak{D} 01'01	4°47'10
morning rise	328 Jul 27 j 07:44	22° \mathfrak{D} 00'16		morning rise	329 Jul 09 j 12:50	4° \mathfrak{D} 39'53	
direct	328 Jul 29 j 18:57	21° \mathfrak{D} 37'06		direct	329 Jul 12 j 01:22	4° \mathfrak{D} 19'43	
morning max el	328 Aug 06 j 03:12	25° \mathfrak{D} 12'25	18°09'07	morning max el	329 Jul 20 j 09:02	8° \mathfrak{D} 15'38	18°44'49
asc. node	328 Aug 07 j 17:40	26° \mathfrak{D} 53'56		asc. node	329 Jul 25 j 14:44	14° \mathfrak{D} 35'38	
	328 Aug 10 j 04:12	0° Ω			329 Aug 03 j 12:02	0° Ω	
morning set	328 Aug 22 j 00:51	20° Ω 24'24		morning set	329 Aug 05 j 18:54	4° Ω 25'33	
	328 Aug 27 j 03:58	0° \mathfrak{N}					
superior conj	328 Aug 31 j 17:08	8° \mathfrak{N} 18'18	1°30'52	superior conj	329 Aug 14 j 10:38	21° Ω 11'30	1°43'46
minimum elong	328 Aug 31 j 20:57	8° \mathfrak{N} 35'28	1°30'33	minimum elong	329 Aug 14 j 12:23	21° Ω 19'43	1°43'41
max. Earth dist.	328 Sep 08 j 08:09	21° \mathfrak{N} 35'02	1.41358 AU		329 Aug 19 j 04:49	0° \mathfrak{N}	
	328 Sep 13 j 10:22	0° \mathfrak{A}		max. Earth dist.	329 Aug 21 j 12:07	4° \mathfrak{N} 07'27	1.39364 AU
evening rise	328 Sep 13 j 13:50	0° \mathfrak{A} 14'02		evening rise	329 Aug 25 j 12:40	11° \mathfrak{N} 06'05	
desc. node	328 Sep 16 j 03:48	4° \mathfrak{A} 22'19		desc. node	329 Sep 03 j 00:50	24° \mathfrak{N} 58'58	
	328 Oct 03 j 07:58	0° \mathfrak{M}			329 Sep 06 j 06:51	0° \mathfrak{A}	
evening max el	328 Oct 17 j 06:34	17° \mathfrak{M} 20'54	22°49'45		329 Sep 28 j 21:59	0° \mathfrak{M}	
retrograde	328 Oct 27 j 06:19	23° \mathfrak{M} 16'57		evening max el	329 Sep 29 j 19:33	0° \mathfrak{M} 54'39	24°09'51
evening set	328 Oct 31 j 23:55	21° \mathfrak{M} 20'52		retrograde	329 Oct 10 j 21:42	7° \mathfrak{M} 25'13	
asc. node	328 Nov 03 j 16:52	18° \mathfrak{M} 31'10		evening set	329 Oct 16 j 05:16	5° \mathfrak{M} 11'35	
inferior conj	328 Nov 06 j 08:20	14° \mathfrak{M} 59'54	0°54'06		329 Oct 20 j 17:57	30° \mathfrak{R} \mathfrak{A}	
minimum elong	328 Nov 06 j 07:06	15° \mathfrak{M} 04'10	0°53'35	min. Earth dist.	329 Oct 20 j 23:23	29° \mathfrak{A} 41'45	0.67527 AU
min. Earth dist.	328 Nov 06 j 03:07	15° \mathfrak{M} 17'57	0.67699 AU	inferior conj	329 Oct 21 j 14:57	28° \mathfrak{A} 49'11	0°00'52
morning rise	328 Nov 11 j 14:11	8° \mathfrak{M} 49'24		minimum elong	329 Oct 21 j 14:55	28° \mathfrak{A} 49'16	0°00'52
direct	328 Nov 16 j 00:25	7° \mathfrak{M} 02'29		transit middle	329 Oct 21 j 14:55	28° \mathfrak{A} 49'16	0°00'52
morning max el	328 Nov 25 j 01:18	12° \mathfrak{M} 21'33	21°48'27	transit begin	329 Oct 21 j 12:12	28° \mathfrak{A} 58'28	
	328 Dec 08 j 22:45	0° \mathfrak{J}		transit end	329 Oct 21 j 17:39	28° \mathfrak{A} 40'04	
desc. node	328 Dec 13 j 03:03	6° \mathfrak{J} 02'43		asc. node	329 Oct 21 j 13:56	28° \mathfrak{A} 52'34	
morning set	328 Dec 27 j 07:29	27° \mathfrak{J} 47'16		morning rise	329 Oct 27 j 00:34	22° \mathfrak{A} 43'34	
	328 Dec 28 j 16:35	0° \mathfrak{Z}		direct	329 Oct 30 j 21:27	21° \mathfrak{A} 18'09	
max. Earth dist.	329 Jan 02 j 14:52	8° \mathfrak{Z} 03'48	1.41531 AU	morning max el	329 Nov 07 j 21:19	25° \mathfrak{A} 55'47	20°31'29
					329 Nov 11 j 12:08	0° \mathfrak{M}	
superior conj	329 Jan 10 j 06:36	21° \mathfrak{Z} 08'17	-2°02'28	desc. node	329 Nov 30 j 00:06	26° \mathfrak{M} 19'57	
minimum elong	329 Jan 10 j 06:44	21° \mathfrak{Z} 08'54	2°02'29		329 Dec 02 j 09:49	0° \mathfrak{J}	
	329 Jan 15 j 05:50	0° \approx		morning set	329 Dec 06 j 07:26	6° \mathfrak{J} 00'44	
evening rise	329 Jan 20 j 23:06	10° \approx 28'52		max. Earth dist.	329 Dec 15 j 21:11	21° \mathfrak{J} 08'28	1.43296 AU
asc. node	329 Jan 30 j 16:10	27° \approx 41'34			329 Dec 21 j 07:19	0° \mathfrak{Z}	
	329 Feb 01 j 03:47	0° \mathfrak{H}					
evening max el	329 Feb 06 j 08:35	6° \mathfrak{H} 34'02	18°12'03	superior conj	329 Dec 22 j 05:15	1° \mathfrak{Z} 31'03	-1°55'09
retrograde	329 Feb 13 j 06:28	10° \mathfrak{H} 02'51		minimum elong	329 Dec 22 j 00:33	1° \mathfrak{Z} 11'31	1°54'55
evening set	329 Feb 15 j 20:49	9° \mathfrak{H} 34'06		evening rise	330 Jan 03 j 12:43	22° \mathfrak{Z} 39'00	
inferior conj	329 Feb 22 j 17:52	4° \mathfrak{H} 45'52	3°34'49		330 Jan 07 j 17:12	0° \approx	
minimum elong	329 Feb 22 j 20:13	4° \mathfrak{H} 40'33	3°34'32	asc. node	330 Jan 17 j 13:13	15° \approx 49'03	
min. Earth dist.	329 Feb 26 j 01:48	1° \mathfrak{H} 46'48	0.60200 AU	evening max el	330 Jan 20 j 20:30	19° \approx 43'25	18°08'37
	329 Feb 28 j 07:28	30° \mathfrak{R} \approx		retrograde	330 Jan 27 j 09:02	23° \approx 08'17	
morning rise	329 Mar 01 j 17:34	29° \approx 02'41		evening set	330 Jan 30 j 04:05	22° \approx 29'53	
direct	329 Mar 08 j 08:39	26° \approx 58'34		inferior conj	330 Feb 05 j 12:22	17° \approx 20'55	3°49'00
desc. node	329 Mar 11 j 02:12	27° \approx 18'37		minimum elong	330 Feb 05 j 12:31	17° \approx 20'31	3°49'01
	329 Mar 16 j 21:22	0° \mathfrak{H}		min. Earth dist.	330 Feb 08 j 09:05	14° \approx 24'57	0.62271 AU
morning max el	329 Mar 22 j 15:13	4° \mathfrak{H} 46'57	27°28'57	morning rise	330 Feb 11 j 19:49	11° \approx 24'23	
	329 Apr 10 j 07:38	0° \mathfrak{Y}		direct	330 Feb 18 j 19:16	8° \approx 50'22	
morning set	329 Apr 23 j 06:21	24° \mathfrak{Y} 16'49		desc. node	330 Feb 25 j 23:16	11° \approx 09'07	
	329 Apr 25 j 23:32	0° \mathfrak{B}		morning max el	330 Mar 04 j 19:45	16° \approx 43'05	27°47'48
asc. node	329 Apr 28 j 15:29	5° \mathfrak{B} 45'26			330 Mar 15 j 19:45	0° \mathfrak{H}	
max. Earth dist.	329 Apr 29 j 16:26	8° \mathfrak{B} 01'44	1.32322 AU		330 Apr 02 j 23:12	0° \mathfrak{Y}	
				morning set	330 Apr 07 j 09:13	8° \mathfrak{Y} 42'24	
superior conj	329 Apr 30 j 10:38	9° \mathfrak{B} 41'27	0°18'57	max. Earth dist.	330 Apr 13 j 01:43	20° \mathfrak{Y} 37'47	1.32658 AU
minimum elong	329 Apr 30 j 09:47	9° \mathfrak{B} 36'48	0°18'46				
evening rise	329 May 07 j 07:59	24° \mathfrak{B} 38'42		superior conj	330 Apr 14 j 20:26	24° \mathfrak{Y} 28'41	-0°07'06
	329 May 09 j 21:51	0° \mathfrak{I}		minimum elong	330 Apr 14 j 20:46	24° \mathfrak{Y} 30'31	0°07'02
	329 May 27 j 16:22	0° \mathfrak{D}		behind sun begin	330 Apr 14 j 16:07	24° \mathfrak{Y} 05'15	
evening max el	329 Jun 03 j 20:53	8° \mathfrak{D} 10'44	25°38'31	behind sun end	330 Apr 15 j 01:26	24° \mathfrak{Y} 55'47	
desc. node	329 Jun 07 j 01:28	10° \mathfrak{D} 56'42		asc. node	330 Apr 15 j 12:31	25° \mathfrak{Y} 56'03	
retrograde	329 Jun 17 j 22:05	15° \mathfrak{D} 21'48			330 Apr 17 j 09:20	0° \mathfrak{B}	
evening set	329 Jun 23 j 18:37	14° \mathfrak{D} 00'29		evening rise	330 Apr 21 j 19:42	9° \mathfrak{B} 32'47	
min. Earth dist.	329 Jun 28 j 09:08	11° \mathfrak{D} 19'07	0.58340 AU		330 May 02 j 10:00	0° \mathfrak{I}	
inferior conj	329 Jul 01 j 15:02	9° \mathfrak{D} 00'00	-4°47'11	evening max el	330 May 16 j 12:06	18° \mathfrak{I} 56'34	24°10'29
				desc. node	330 May 24 j 22:31	24° \mathfrak{I} 47'57	


































































































































retrograde	330 May 30 j 08:29	25° Π 54'42		desc. node	331 May 11 j 19:31	5° Π 58'00	
evening set	330 Jun 03 j 19:51	25° Π 10'14		evening set	331 May 14 j 08:26	5° Π 37'38	
min. Earth dist.	330 Jun 09 j 23:18	22° Π 09'46	0.56539 AU	min. Earth dist.	331 May 22 j 11:33	2° Π 05'52	0.55332 AU
inferior conj	330 Jun 12 j 12:45	20° Π 33'53	-4°21'47	inferior conj	331 May 23 j 16:09	1° Π 25'12	-3°10'47
minimum elong	330 Jun 12 j 07:23	20° Π 42'19	4°20'58	minimum elong	331 May 23 j 08:49	1° Π 35'39	3°08'44
morning rise	330 Jun 20 j 21:42	16° Π 32'22			331 May 26 j 05:26	30° \mathbb{R} 8	
direct	330 Jun 23 j 13:01	16° Π 13'55		morning rise	331 Jun 01 j 11:17	27° \mathbb{B} 32'00	
morning max el	330 Jul 03 j 05:32	20° Π 43'34	19°41'36	direct	331 Jun 04 j 07:18	27° \mathbb{B} 13'31	
	330 Jul 10 j 14:40	0° \mathbb{E}			331 Jun 12 j 12:32	0° Π	
asc. node	330 Jul 12 j 11:47	3° \mathbb{E} 03'12		morning max el	331 Jun 15 j 14:56	2° Π 29'22	20°58'50
morning set	330 Jul 20 j 20:48	18° \mathbb{E} 50'42		asc. node	331 Jun 29 j 08:49	22° Π 05'46	
	330 Jul 26 j 09:14	0° \mathcal{O}			331 Jul 03 j 10:14	0° \mathbb{E}	
				morning set	331 Jul 05 j 03:58	3° \mathbb{E} 32'47	
superior conj	330 Jul 28 j 19:32	4° \mathcal{O} 51'01	1°46'50	superior conj	331 Jul 12 j 15:19	19° \mathbb{E} 04'08	1°42'06
minimum elong	330 Jul 28 j 19:20	4° \mathcal{O} 50'03	1°46'49	minimum elong	331 Jul 12 j 13:45	18° \mathbb{E} 56'04	1°42'00
max. Earth dist.	330 Aug 03 j 15:49	16° \mathcal{O} 07'03	1.37379 AU	max. Earth dist.	331 Jul 17 j 01:00	27° \mathbb{E} 57'33	1.35618 AU
evening rise	330 Aug 07 j 11:24	23° \mathcal{O} 06'10			331 Jul 18 j 01:56	0° \mathcal{O}	
	330 Aug 11 j 09:56	0° \mathbb{M}		evening rise	331 Jul 21 j 05:49	6° \mathcal{O} 03'41	
desc. node	330 Aug 20 j 21:52	15° \mathbb{M} 23'43			331 Aug 04 j 04:08	0° \mathbb{M}	
	330 Aug 31 j 01:02	0° \mathcal{A}		desc. node	331 Aug 07 j 18:54	5° \mathbb{M} 30'26	
evening max el	330 Sep 12 j 07:19	14° \mathcal{A} 32'15	25°25'06	evening max el	331 Aug 25 j 19:10	28° \mathbb{M} 08'57	26°27'44
retrograde	330 Sep 24 j 08:39	21° \mathcal{A} 28'36			331 Aug 27 j 19:25	0° \mathcal{A}	
evening set	330 Sep 30 j 06:51	18° \mathcal{A} 58'57		retrograde	331 Sep 07 j 14:33	5° \mathcal{A} 21'02	
min. Earth dist.	330 Oct 04 j 16:52	14° \mathcal{A} 04'23	0.67029 AU	evening set	331 Sep 14 j 02:40	2° \mathcal{A} 39'35	
inferior conj	330 Oct 05 j 19:11	12° \mathcal{A} 39'16	-0°54'49		331 Sep 16 j 19:19	30° \mathbb{R} \mathbb{M}	
minimum elong	330 Oct 05 j 20:34	12° \mathcal{A} 34'48	0°54'13	min. Earth dist.	331 Sep 18 j 05:03	28° \mathbb{M} 22'03	0.66190 AU
asc. node	330 Oct 08 j 10:59	9° \mathcal{A} 22'58		inferior conj	331 Sep 19 j 19:07	26° \mathbb{M} 26'33	-1°51'23
morning rise	330 Oct 11 j 10:26	6° \mathcal{A} 41'28		minimum elong	331 Sep 19 j 21:58	26° \mathbb{M} 17'53	1°50'15
direct	330 Oct 14 j 19:53	5° \mathcal{A} 34'52		asc. node	331 Sep 25 j 08:02	20° \mathbb{M} 54'08	
morning max el	330 Oct 22 j 01:03	9° \mathcal{A} 40'16	19°27'48	morning rise	331 Sep 25 j 17:41	20° \mathbb{M} 39'41	
	330 Nov 05 j 22:55	0° \mathbb{M}		direct	331 Sep 28 j 17:54	19° \mathbb{M} 48'27	
morning set	330 Nov 15 j 06:48	14° \mathbb{M} 21'59		morning max el	331 Oct 05 j 11:18	23° \mathbb{M} 31'41	18°39'31
desc. node	330 Nov 16 j 21:09	16° \mathbb{M} 50'51			331 Oct 10 j 17:55	0° \mathcal{A}	
	330 Nov 25 j 07:12	0° \mathbb{X}		morning set	331 Oct 26 j 03:42	23° \mathcal{A} 51'43	
max. Earth dist.	330 Nov 28 j 10:58	4° \mathbb{X} 58'50	1.44515 AU		331 Oct 30 j 00:19	0° \mathbb{M}	
superior conj	330 Dec 02 j 01:26	10° \mathbb{X} 42'38	-1°29'39	desc. node	331 Nov 03 j 18:11	7° \mathbb{M} 30'34	
minimum elong	330 Dec 01 j 17:07	10° \mathbb{X} 09'25	1°28'50	superior conj	331 Nov 11 j 03:42	19° \mathbb{M} 09'04	-0°47'26
	330 Dec 13 j 21:36	0° \mathbb{Z}		minimum elong	331 Nov 10 j 21:38	18° \mathbb{M} 45'14	0°46'40
evening rise	330 Dec 16 j 06:12	3° \mathbb{Z} 55'39		max. Earth dist.	331 Nov 11 j 05:11	19° \mathbb{M} 14'54	1.45042 AU
	331 Jan 01 j 17:16	0° \approx			331 Nov 18 j 01:07	0° \mathbb{X}	
asc. node	331 Jan 04 j 10:16	3° \approx 07'13		evening rise	331 Nov 27 j 00:18	14° \mathbb{X} 13'41	
evening max el	331 Jan 04 j 09:01	3° \approx 04'02	18°23'58	greatest brilliancy	331 Dec 04 j 22:06	26° \mathbb{X} 50'47	-0.8m
retrograde	331 Jan 10 j 21:28	6° \approx 37'35			331 Dec 06 j 22:05	0° \mathbb{Z}	
evening set	331 Jan 13 j 21:24	5° \approx 48'36		evening max el	331 Dec 18 j 19:31	16° \mathbb{Z} 29'40	18°57'09
inferior conj	331 Jan 19 j 20:16	0° \approx 20'12	3°42'42	asc. node	331 Dec 22 j 07:18	19° \mathbb{Z} 21'38	
minimum elong	331 Jan 19 j 18:44	0° \approx 24'36	3°42'33	retrograde	331 Dec 25 j 15:50	20° \mathbb{Z} 22'32	
	331 Jan 20 j 03:17	30° \mathbb{R} \mathbb{Z}		evening set	331 Dec 28 j 21:37	19° \mathbb{Z} 21'52	
min. Earth dist.	331 Jan 22 j 01:54	27° \mathbb{Z} 46'49	0.64094 AU	inferior conj	332 Jan 03 j 13:51	13° \mathbb{Z} 36'25	3°21'36
morning rise	331 Jan 25 j 15:30	24° \mathbb{Z} 15'32		minimum elong	332 Jan 03 j 11:21	13° \mathbb{Z} 44'10	3°21'07
direct	331 Feb 01 j 13:28	21° \mathbb{Z} 25'49		min. Earth dist.	332 Jan 05 j 04:11	11° \mathbb{Z} 36'59	0.65556 AU
desc. node	331 Feb 12 j 20:18	27° \mathbb{Z} 03'38		morning rise	332 Jan 09 j 00:48	7° \mathbb{Z} 26'33	
morning max el	331 Feb 15 j 04:14	29° \mathbb{Z} 15'37	27°30'21	direct	332 Jan 15 j 14:11	4° \mathbb{Z} 35'37	
	331 Feb 15 j 21:44	0° \approx		morning max el	332 Jan 28 j 14:04	12° \mathbb{Z} 13'00	26°41'32
	331 Mar 09 j 16:40	0° \mathbb{H}		desc. node	332 Jan 30 j 17:21	14° \mathbb{Z} 27'26	
morning set	331 Mar 22 j 04:31	22° \mathbb{H} 41'41			332 Feb 11 j 21:03	0° \approx	
	331 Mar 25 j 19:29	0° \mathbb{Y}			332 Mar 01 j 06:49	0° \mathbb{H}	
max. Earth dist.	331 Mar 27 j 04:00	2° \mathbb{Y} 48'20	1.33408 AU	morning set	332 Mar 04 j 12:49	6° \mathbb{H} 03'24	
superior conj	331 Mar 30 j 02:39	9° \mathbb{Y} 00'45	-0°34'05	max. Earth dist.	332 Mar 08 j 19:44	14° \mathbb{H} 24'35	1.34597 AU
minimum elong	331 Mar 30 j 04:18	9° \mathbb{Y} 09'33	0°33'45	superior conj	332 Mar 13 j 03:05	23° \mathbb{H} 10'12	-1°00'53
asc. node	331 Apr 02 j 09:34	16° \mathbb{Y} 03'09		minimum elong	332 Mar 13 j 06:00	23° \mathbb{H} 25'18	1°00'21
evening rise	331 Apr 06 j 07:10	24° \mathbb{Y} 21'41			332 Mar 16 j 09:36	0° \mathbb{Y}	
	331 Apr 09 j 00:37	0° \mathbb{B}		asc. node	332 Mar 19 j 06:36	6° \mathbb{Y} 01'57	
evening max el	331 Apr 28 j 03:36	29° \mathbb{B} 30'01	22°34'51	evening rise	332 Mar 20 j 16:28	8° \mathbb{Y} 58'14	
	331 Apr 28 j 16:15	0° Π			332 Mar 31 j 23:07	0° \mathbb{B}	
retrograde	331 May 11 j 06:06	5° Π 58'42					

evening max el	332 Apr 09 j 02:21	10° ♁ 20'42	21°05'46	asc. node	333 Mar 06 j 03:38	25° ♁ 48'00	
retrograde	332 Apr 20 j 19:53	16° ♁ 02'24			333 Mar 08 j 06:30	0° ♁	
evening set	332 Apr 23 j 02:12	15° ♁ 50'26		evening max el	333 Mar 22 j 12:19	21° ♁ 47'30	19°52'05
desc. node	332 Apr 27 j 16:30	14° ♁ 21'16		retrograde	333 Apr 01 j 12:39	26° ♁ 36'05	
inferior conj	332 May 02 j 10:22	11° ♁ 51'36	-1°21'31	evening set	333 Apr 03 j 14:46	26° ♁ 24'28	
minimum elong	332 May 02 j 06:31	11° ♁ 57'01	1°20'08	inferior conj	333 Apr 12 j 09:51	22° ♁ 23'28	0°36'45
min. Earth dist.	332 May 03 j 00:16	11° ♁ 31'57	0.54982 AU	minimum elong	333 Apr 12 j 11:27	22° ♁ 21'00	0°36'12
morning rise	332 May 11 j 10:51	7° ♁ 48'24		min. Earth dist.	333 Apr 14 j 14:29	21° ♁ 02'45	0.55595 AU
direct	332 May 14 j 17:13	7° ♁ 25'21		desc. node	333 Apr 14 j 13:33	21° ♁ 04'10	
morning max el	332 May 27 j 13:54	13° ♁ 33'50	22°32'35	morning rise	333 Apr 21 j 05:48	17° ♁ 52'23	
	332 Jun 08 j 23:41	0° ♁		direct	333 Apr 25 j 08:52	17° ♁ 14'40	
asc. node	332 Jun 15 j 05:52	11° ♁ 34'35		morning max el	333 May 09 j 05:59	24° ♁ 09'28	24°13'42
morning set	332 Jun 18 j 14:21	18° ♁ 25'53			333 May 14 j 13:40	0° ♁	
	332 Jun 24 j 01:06	0° ♁			333 Jun 01 j 11:02	0° ♁	
				asc. node	333 Jun 02 j 02:54	1° ♁ 22'05	
superior conj	332 Jun 25 j 18:36	3° ♁ 40'42	1°31'13	morning set	333 Jun 03 j 02:10	3° ♁ 23'50	
minimum elong	332 Jun 25 j 16:18	3° ♁ 28'28	1°30'59				
max. Earth dist.	332 Jun 28 j 19:06	10° ♁ 00'45	1.34207 AU	superior conj	333 Jun 10 j 02:44	18° ♁ 31'36	1°15'29
evening rise	332 Jul 03 j 15:08	19° ♁ 45'59		minimum elong	333 Jun 10 j 00:15	18° ♁ 18'14	1°15'07
	332 Jul 09 j 01:14	0° ♁		max. Earth dist.	333 Jun 11 j 22:07	22° ♁ 25'23	1.33193 AU
desc. node	332 Jul 24 j 15:53	25° ♁ 11'13			333 Jun 15 j 12:15	0° ♁	
	332 Jul 28 j 04:36	0° ♁		evening rise	333 Jun 17 j 11:12	4° ♁ 00'31	
evening max el	332 Aug 07 j 06:58	11° ♁ 36'29	27°10'09		333 Jul 01 j 18:37	0° ♁	
retrograde	332 Aug 20 j 15:07	18° ♁ 55'36		desc. node	333 Jul 11 j 12:53	14° ♁ 14'35	
evening set	332 Aug 27 j 14:18	16° ♁ 10'01		evening max el	333 Jul 20 j 17:24	24° ♁ 42'58	27°25'38
min. Earth dist.	332 Aug 31 j 09:48	12° ♁ 29'18	0.64989 AU		333 Jul 27 j 13:59	0° ♁	
inferior conj	332 Sep 02 j 12:36	10° ♁ 07'25	-2°46'40	retrograde	333 Aug 03 j 09:50	2° ♁ 02'28	
minimum elong	332 Sep 02 j 16:45	9° ♁ 55'48	2°45'15		333 Aug 09 j 17:48	30° ♁	
morning rise	332 Sep 08 j 19:59	4° ♁ 34'33		evening set	333 Aug 10 j 14:34	29° ♁ 24'18	
asc. node	332 Sep 11 j 05:04	3° ♁ 55'42		min. Earth dist.	333 Aug 14 j 05:14	26° ♁ 16'17	0.63430 AU
direct	332 Sep 11 j 13:19	3° ♁ 55'04		inferior conj	333 Aug 16 j 21:03	23° ♁ 35'31	-3°37'41
morning max el	332 Sep 18 j 01:47	7° ♁ 25'23	18°07'49	minimum elong	333 Aug 17 j 01:55	23° ♁ 23'14	3°36'23
	332 Oct 03 j 08:31	0° ♁		morning rise	333 Aug 23 j 14:24	18° ♁ 19'48	
morning set	332 Oct 06 j 05:23	4° ♁ 46'36		direct	333 Aug 26 j 03:22	17° ♁ 48'42	
				asc. node	333 Aug 29 j 02:07	18° ♁ 31'16	
superior conj	332 Oct 20 j 08:45	27° ♁ 50'01	0°01'48	morning max el	333 Sep 01 j 17:37	21° ♁ 14'19	17°53'32
minimum elong	332 Oct 20 j 08:59	27° ♁ 50'55	0°01'45		333 Sep 08 j 09:09	0° ♁	
behind sun begin	332 Oct 19 j 22:14	27° ♁ 08'05		morning set	333 Sep 18 j 08:19	16° ♁ 53'55	
behind sun end	332 Oct 20 j 19:43	28° ♁ 33'42			333 Sep 25 j 22:31	0° ♁	
desc. node	332 Oct 20 j 15:15	28° ♁ 15'53					
	332 Oct 21 j 17:26	0° ♁		superior conj	333 Sep 30 j 11:12	7° ♁ 35'41	0°45'52
max. Earth dist.	332 Oct 23 j 23:58	3° ♁ 35'46	1.44826 AU	minimum elong	333 Sep 30 j 15:34	7° ♁ 53'45	0°45'18
evening rise	332 Nov 05 j 20:13	23° ♁ 38'55		max. Earth dist.	333 Oct 06 j 16:16	17° ♁ 42'54	1.43910 AU
	332 Nov 09 j 22:46	0° ♁		desc. node	333 Oct 07 j 12:15	19° ♁ 02'49	
greatest brilliancy	332 Nov 18 j 21:42	13° ♁ 40'15	-0.7m		333 Oct 14 j 11:15	0° ♁	
evening max el	332 Dec 01 j 02:00	29° ♁ 57'41	19°46'41	evening rise	333 Oct 16 j 03:42	2° ♁ 36'32	
	332 Dec 01 j 02:54	0° ♁			333 Nov 03 j 12:32	0° ♁	
asc. node	332 Dec 08 j 04:19	4° ♁ 17'54		evening max el	333 Nov 14 j 03:09	13° ♁ 26'33	20°50'19
retrograde	332 Dec 08 j 13:05	4° ♁ 18'39		retrograde	333 Nov 22 j 10:44	18° ♁ 22'00	
evening set	332 Dec 12 j 02:19	3° ♁ 04'48		asc. node	333 Nov 25 j 01:22	17° ♁ 43'30	
	332 Dec 15 j 07:12	30° ♁		evening set	333 Nov 26 j 09:26	16° ♁ 53'04	
inferior conj	332 Dec 17 j 14:10	27° ♁ 05'10	2°49'40	inferior conj	333 Dec 01 j 18:44	10° ♁ 42'34	2°09'32
minimum elong	332 Dec 17 j 11:23	27° ♁ 14'20	2°48'53	minimum elong	333 Dec 01 j 16:14	10° ♁ 51'08	2°08'39
min. Earth dist.	332 Dec 18 j 14:34	25° ♁ 44'30	0.66627 AU	min. Earth dist.	333 Dec 02 j 06:47	10° ♁ 01'20	0.67316 AU
morning rise	332 Dec 22 j 20:15	20° ♁ 52'26		morning rise	333 Dec 06 j 22:50	4° ♁ 29'03	
direct	332 Dec 28 j 20:51	18° ♁ 11'51		direct	333 Dec 12 j 08:42	2° ♁ 06'43	
morning max el	333 Jan 09 j 23:11	25° ♁ 23'26	25°29'42	morning max el	333 Dec 23 j 07:32	8° ♁ 38'48	24°04'54
	333 Jan 14 j 04:24	0° ♁		desc. node	334 Jan 03 j 11:29	22° ♁ 07'31	
desc. node	333 Jan 16 j 14:25	2° ♁ 54'56			334 Jan 09 j 02:25	0° ♁	
	333 Feb 04 j 09:16	0° ♁		morning set	334 Jan 28 j 00:43	29° ♁ 58'50	
morning set	333 Feb 15 j 05:31	18° ♁ 34'36			334 Jan 28 j 01:00	0° ♁	
max. Earth dist.	333 Feb 18 j 23:34	25° ♁ 31'43	1.36231 AU	max. Earth dist.	334 Jan 31 j 19:22	6° ♁ 36'54	1.38223 AU
	333 Feb 21 j 07:40	0° ♁					
				superior conj	334 Feb 07 j 23:07	19° ♁ 50'23	-1°46'33
superior conj	333 Feb 24 j 19:03	6° ♁ 49'46	-1°25'49	minimum elong	334 Feb 08 j 02:53	20° ♁ 08'24	1°46'12
minimum elong	333 Feb 24 j 22:51	7° ♁ 08'43	1°25'17		334 Feb 13 j 04:50	0° ♁	
evening rise	333 Mar 04 j 21:33	23° ♁ 16'19		evening rise	334 Feb 16 j 20:00	7° ♁ 09'16	

asc. node	334 Feb 21 j 00:40	15° K 16'12		evening rise	335 Jan 31 j 08:43	20° \approx 28'39	
	334 Mar 01 j 23:29	0° Y			335 Feb 05 j 11:12	0° K	
evening max el	334 Mar 05 j 09:13	3° Y 53'11	18°57'29	asc. node	335 Feb 07 j 21:44	4° K 19'30	
retrograde	334 Mar 13 j 19:50	7° Y 57'52		evening max el	335 Feb 16 j 14:20	16° K 29'54	18°22'52
evening set	334 Mar 16 j 02:06	7° Y 41'32		retrograde	335 Feb 23 j 22:06	20° K 07'04	
inferior conj	334 Mar 24 j 02:17	3° Y 25'46	2°12'57	evening set	335 Feb 26 j 09:47	19° K 43'11	
minimum elong	334 Mar 24 j 06:31	3° Y 18'16	2°11'44	inferior conj	335 Mar 05 j 15:45	15° K 06'54	3°14'25
min. Earth dist.	334 Mar 27 j 06:35	1° Y 11'37	0.57036 AU	minimum elong	335 Mar 05 j 19:17	14° K 59'35	3°13'46
	334 Mar 29 j 03:07	30° K K		min. Earth dist.	335 Mar 09 j 02:11	12° K 17'34	0.58990 AU
morning rise	334 Apr 01 j 07:53	28° K 21'39		morning rise	335 Mar 13 j 02:20	9° K 35'30	
desc. node	334 Apr 01 j 10:36	28° K 18'54		direct	335 Mar 19 j 07:57	7° K 52'55	
direct	334 Apr 06 j 13:56	27° K 15'50		desc. node	335 Mar 19 j 07:40	7° K 52'55	
	334 Apr 15 j 00:37	0° Y		morning max el	335 Apr 02 j 15:53	15° K 34'25	27°01'24
morning max el	334 Apr 20 j 20:54	4° Y 40'54	25°48'19		335 Apr 14 j 08:59	0° Y	
	334 May 09 j 03:45	0° B			335 May 01 j 10:33	0° B	
morning set	334 May 18 j 13:49	18° B 21'14		morning set	335 May 02 j 23:35	3° B 11'27	
asc. node	334 May 19 j 23:58	21° B 22'28		asc. node	335 May 06 j 21:01	11° B 30'04	
	334 May 23 j 23:19	0° II					
superior conj	334 May 25 j 13:37	3° II 29'49	0°55'51	superior conj	335 May 10 j 01:25	18° B 28'08	0°33'08
minimum elong	334 May 25 j 11:28	3° II 18'04	0°55'28	minimum elong	335 May 09 j 24:00	18° B 20'21	0°32'50
max. Earth dist.	334 May 26 j 07:48	5° II 09'18	1.32570 AU	max. Earth dist.	335 May 09 j 20:28	18° B 00'55	1.32315 AU
evening rise	334 Jun 01 j 14:47	18° II 37'08			335 May 15 j 08:20	0° II	
	334 Jun 07 j 08:13	0° B		evening rise	335 May 16 j 23:10	3° II 26'08	
	334 Jun 26 j 09:29	0° Q			335 May 31 j 05:36	0° B	
desc. node	334 Jun 28 j 09:52	2° Q 24'51		evening max el	335 Jun 15 j 00:49	19° B 05'11	26°19'56
evening max el	334 Jul 03 j 00:14	7° Q 16'13	27°09'14	desc. node	335 Jun 15 j 06:54	19° B 19'35	
retrograde	334 Jul 16 j 21:38	14° Q 32'36		retrograde	335 Jun 29 j 01:00	26° B 18'10	
evening set	334 Jul 23 j 23:26	12° Q 15'26		evening set	335 Jul 05 j 12:17	24° B 34'21	
min. Earth dist.	334 Jul 27 j 14:27	9° Q 30'28	0.61566 AU	min. Earth dist.	335 Jul 09 j 13:47	21° B 57'05	0.59518 AU
inferior conj	334 Jul 30 j 17:19	6° Q 43'39	-4°19'36	inferior conj	335 Jul 12 j 21:48	19° B 22'05	-4°44'41
minimum elong	334 Jul 30 j 21:40	6° Q 33'55	4°18'50	minimum elong	335 Jul 12 j 23:40	19° B 18'27	4°44'34
morning rise	334 Aug 06 j 21:27	1° Q 48'01		morning rise	335 Jul 20 j 13:07	14° B 49'00	
direct	334 Aug 09 j 08:38	1° Q 22'31		direct	335 Jul 23 j 00:52	14° B 27'08	
asc. node	334 Aug 15 j 23:11	4° Q 30'54		morning max el	335 Jul 30 j 17:39	18° B 09'32	18°21'43
morning max el	334 Aug 16 j 07:55	4° Q 51'42	17°57'45	asc. node	335 Aug 02 j 20:15	21° B 39'26	
morning set	334 Sep 01 j 06:27	29° Q 56'22			335 Aug 08 j 08:12	0° Q	
	334 Sep 01 j 07:15	0° M		morning set	335 Aug 15 j 18:28	13° Q 39'29	
					335 Aug 24 j 09:58	0° M	
superior conj	334 Sep 11 j 17:02	18° M 41'59	1°18'09	superior conj	335 Aug 24 j 23:12	1° M 00'50	1°37'41
minimum elong	334 Sep 11 j 21:44	19° M 02'25	1°17'39	minimum elong	335 Aug 25 j 02:10	1° M 14'29	1°37'29
	334 Sep 18 j 08:30	0° A		max. Earth dist.	335 Sep 01 j 11:15	14° M 21'25	1.40529 AU
max. Earth dist.	334 Sep 19 j 04:20	1° A 22'02	1.42416 AU	evening rise	335 Sep 06 j 00:56	22° M 03'26	
desc. node	334 Sep 24 j 09:15	9° A 48'25			335 Sep 10 j 22:48	0° A	
evening rise	334 Sep 25 j 16:22	11° A 51'55		desc. node	335 Sep 11 j 06:15	0° A 29'27	
	334 Oct 07 j 13:23	0° M			335 Oct 01 j 14:57	0° M	
evening max el	334 Oct 27 j 22:39	26° M 56'06	22°04'25	evening max el	335 Oct 10 j 13:25	10° M 27'51	23°23'59
	334 Oct 31 j 08:34	0° A		retrograde	335 Oct 21 j 00:19	16° M 38'47	
retrograde	334 Nov 06 j 06:56	2° A 29'32		evening set	335 Oct 25 j 23:50	14° M 35'03	
evening set	334 Nov 10 j 17:10	0° A 43'41		asc. node	335 Oct 29 j 19:29	10° M 19'10	
asc. node	334 Nov 11 j 22:26	29° M 36'47		inferior conj	335 Oct 31 j 08:38	8° M 13'10	0°31'55
	334 Nov 11 j 13:00	30° K M		minimum elong	335 Oct 31 j 07:53	8° M 15'45	0°31'36
inferior conj	334 Nov 16 j 01:30	24° M 25'42	1°23'05	min. Earth dist.	335 Oct 30 j 23:00	8° M 46'14	0.67667 AU
minimum elong	334 Nov 15 j 23:42	24° M 31'55	1°22'22	morning rise	335 Nov 05 j 15:52	2° M 04'42	
min. Earth dist.	334 Nov 16 j 02:23	24° M 22'39	0.67656 AU	direct	335 Nov 09 j 20:16	0° M 27'10	
morning rise	334 Nov 21 j 06:05	18° M 13'35		morning max el	335 Nov 18 j 09:41	5° M 27'06	21°14'25
direct	334 Nov 26 j 00:49	16° M 13'23			335 Dec 06 j 21:33	0° A	
morning max el	334 Dec 05 j 17:49	21° M 58'30	22°37'02	desc. node	335 Dec 08 j 05:34	1° A 58'56	
	334 Dec 12 j 15:44	0° A		morning set	335 Dec 19 j 03:34	18° A 42'22	
desc. node	334 Dec 21 j 08:31	11° A 51'45			335 Dec 26 j 04:45	0° B	
	335 Jan 02 j 10:29	0° B		max. Earth dist.	335 Dec 26 j 17:49	0° B 53'31	1.42337 AU
morning set	335 Jan 08 j 16:16	10° B 00'03					
max. Earth dist.	335 Jan 13 j 15:21	18° B 17'20	1.40358 AU	superior conj	336 Jan 03 j 00:04	13° B 03'40	-2°01'25
	335 Jan 20 j 08:06	0° \approx		minimum elong	336 Jan 02 j 22:17	12° B 56'04	2°01'23
					336 Jan 12 j 14:38	0° \approx	
superior conj	335 Jan 21 j 10:35	1° \approx 59'17	-1°59'50	evening rise	336 Jan 14 j 08:01	3° \approx 06'46	
minimum elong	335 Jan 21 j 12:41	2° \approx 08'50	1°59'46	asc. node	336 Jan 25 j 18:48	22° \approx 50'05	

evening max el	336 Jan 31 j 00:34	29°  29'18	18°08'10	superior conj	336 Dec 13 j 11:04	22°  53'54	-1°46'39
	336 Jan 31 j 13:27	0° 		minimum elong	336 Dec 13 j 04:23	22°  26'35	1°46'09
retrograde	336 Feb 06 j 17:15	2°  54'56			336 Dec 17 j 18:28	0° 	
evening set	336 Feb 09 j 09:38	2°  22'08		evening rise	336 Dec 26 j 13:32	14°  54'32	
	336 Feb 13 j 04:03	30° 			337 Jan 04 j 10:18	0° 	
inferior conj	336 Feb 16 j 00:45	27°  24'37	3°43'45	asc. node	337 Jan 11 j 15:50	10°  37'38	
minimum elong	336 Feb 16 j 02:09	27°  21'15	3°43'40	evening max el	337 Jan 13 j 12:57	12°  43'13	18°12'52
min. Earth dist.	336 Feb 19 j 04:32	24°  24'19	0.61100 AU	retrograde	337 Jan 20 j 00:35	16°  10'46	
morning rise	336 Feb 22 j 17:06	21°  34'50		evening set	337 Jan 22 j 21:31	15°  28'07	
direct	336 Feb 29 j 12:53	19°  16'57		inferior conj	337 Jan 29 j 01:25	10°  10'36	3°48'28
desc. node	336 Mar 05 j 04:44	20°  15'34		minimum elong	337 Jan 29 j 00:46	10°  12'21	3°48'27
morning max el	336 Mar 14 j 17:21	27°  07'24	27°41'35	min. Earth dist.	337 Jan 31 j 15:56	7°  22'09	0.63079 AU
	336 Mar 17 j 11:11	0° 		morning rise	337 Feb 04 j 03:08	4°  09'48	
	336 Apr 06 j 23:18	0° 		direct	337 Feb 11 j 02:48	1°  27'15	
morning set	336 Apr 16 j 05:37	17°  48'15		desc. node	337 Feb 20 j 01:46	5°  02'41	
	336 Apr 21 j 23:34	0° 		morning max el	337 Feb 25 j 00:07	9°  20'34	27°44'42
max. Earth dist.	336 Apr 22 j 08:15	0°  47'10	1.32424 AU		337 Mar 13 j 02:03	0° 	
asc. node	336 Apr 22 j 18:04	1°  40'41			337 Mar 30 j 04:47	0° 	
				morning set	337 Mar 31 j 05:40	2°  04'05	
superior conj	336 Apr 23 j 12:26	3°  20'54	0°08'06	max. Earth dist.	337 Apr 05 j 15:04	13°  09'13	1.32919 AU
minimum elong	336 Apr 23 j 12:03	3°  18'52	0°08'01				
behind sun begin	336 Apr 23 j 07:39	2°  54'48		superior conj	337 Apr 07 j 20:57	18°  02'27	-0°18'29
behind sun end	336 Apr 23 j 16:28	3°  42'57		minimum elong	337 Apr 07 j 21:50	18°  07'13	0°18'18
evening rise	336 Apr 30 j 10:13	18°  20'09		asc. node	337 Apr 09 j 15:07	21°  05'20	
	336 May 06 j 04:15	0° 			337 Apr 13 j 09:49	0° 	
	336 May 26 j 14:37	0° 		evening rise	337 Apr 14 j 22:02	3°  12'41	
evening max el	336 May 26 j 18:26	0°  09'11	25°02'47		337 Apr 29 j 13:35	0° 	
desc. node	336 Jun 01 j 03:57	4°  28'16		evening max el	337 May 08 j 08:46	10°  14'58	23°29'50
retrograde	336 Jun 09 j 18:23	7°  16'18		desc. node	337 May 19 j 00:59	17°  15'01	
evening set	336 Jun 15 j 01:58	6°  11'22		retrograde	337 May 21 j 23:50	17°  14'52	
min. Earth dist.	336 Jun 20 j 05:58	3°  23'46	0.57527 AU	evening set	337 May 25 j 20:07	17°  12'19	
inferior conj	336 Jun 23 j 07:09	1°  20'52	-4°41'32	min. Earth dist.	337 Jun 01 j 19:07	13°  14'50	0.55929 AU
minimum elong	336 Jun 23 j 04:30	1°  25'22	4°41'20	inferior conj	337 Jun 03 j 20:33	12°  13'61	-3°57'24
	336 Jun 25 j 08:15	30° 		minimum elong	337 Jun 03 j 13:44	12°  14'22	3°55'58
morning rise	336 Jul 01 j 09:46	27°  10'49		morning rise	337 Jun 12 j 10:08	8°  14'07	
direct	336 Jul 03 j 23:30	26°  15'08		direct	337 Jun 15 j 02:46	8°  12'10	
	336 Jul 11 j 17:10	0° 		morning max el	337 Jun 25 j 11:53	13°  10'13	20°12'07
morning max el	336 Jul 12 j 19:49	0°  58'32	19°06'28	asc. node	337 Jul 06 j 14:20	28°  12'37	
asc. node	336 Jul 19 j 17:18	9°  41'44			337 Jul 07 j 11:24	0° 	
morning set	336 Jul 29 j 16:12	27°  51'36		morning set	337 Jul 13 j 20:37	12°  24'58	
	336 Jul 30 j 18:06	0° 					
				superior conj	337 Jul 21 j 13:56	28°  11'26	1°45'40
superior conj	336 Aug 06 j 23:52	14°  08'15	1°46'08	minimum elong	337 Jul 21 j 13:05	28°  07'08	1°45'39
minimum elong	336 Aug 07 j 00:44	14°  19'44	1°46'07		337 Jul 22 j 11:34	0° 	
max. Earth dist.	336 Aug 13 j 14:33	26°  08'02	1.38500 AU	max. Earth dist.	337 Jul 26 j 19:34	8°  29'21	1.36589 AU
	336 Aug 15 j 11:37	0° 		evening rise	337 Jul 30 j 17:58	15°  05'12	
evening rise	336 Aug 17 j 10:12	3°  24'35			337 Aug 07 j 20:53	0° 	
desc. node	336 Aug 28 j 03:16	21°  01'28		desc. node	337 Aug 15 j 00:18	11°  19'29	
	336 Sep 03 j 02:09	0° 			337 Aug 28 j 14:22	0° 	
evening max el	336 Sep 22 j 01:26	24°  02'30	24°42'52	evening max el	337 Sep 04 j 12:58	7°  39'57	25°53'40
	336 Sep 30 j 02:40	0° 		retrograde	337 Sep 16 j 22:57	14°  45'04	
retrograde	336 Oct 03 j 13:55	0°  45'32		evening set	337 Sep 23 j 03:11	12°  09'36	
	336 Oct 06 j 19:01	30° 		min. Earth dist.	337 Sep 27 j 09:50	7°  30'32	0.66714 AU
evening set	336 Oct 09 j 03:47	28°  04'26		inferior conj	337 Sep 28 j 17:03	5°  51'57	-1°18'49
min. Earth dist.	336 Oct 13 j 18:15	23°  09'36	0.67355 AU	minimum elong	337 Sep 28 j 19:04	5°  45'35	1°17'59
inferior conj	336 Oct 14 j 14:25	22°  02'36	-0°22'34	asc. node	337 Oct 02 j 13:33	1°  27'29	
minimum elong	336 Oct 14 j 14:58	22°  00'45	0°22'19	morning rise	337 Oct 04 j 11:14	29°  08'21	
asc. node	336 Oct 15 j 16:32	20°  36'39			337 Oct 04 j 10:10	30° 	
morning rise	336 Oct 20 j 02:14	16°  00'12		direct	337 Oct 07 j 16:22	28°  08'54	
direct	336 Oct 23 j 17:56	14°  43'22			337 Oct 11 j 01:49	0° 	
morning max el	336 Oct 31 j 09:07	19°  06'06	20°02'40	morning max el	337 Oct 14 j 15:52	2°  54'05	19°05'12
	336 Nov 09 j 02:21	0° 			337 Nov 02 j 17:02	0° 	
desc. node	336 Nov 24 j 02:34	22°  12'08		morning set	337 Nov 06 j 06:23	5°  13'43	
morning set	336 Nov 26 j 23:57	26°  14'21		desc. node	337 Nov 10 j 23:36	12°  56'53	
	336 Nov 29 j 01:10	0° 		max. Earth dist.	337 Nov 20 j 18:56	28°  12'05	1.44828 AU
max. Earth dist.	336 Dec 08 j 03:34	14°  19'20	1.43889 AU		337 Nov 21 j 20:17	0° 	

superior conj	337 Nov 22 j 21:43	1° ♊ 40'25	-1°13'22	evening rise	338 Nov 18 j 05:16	5° ♊ 39'17	
minimum elong	337 Nov 22 j 13:32	1° ♊ 08'05	1°12'27	greatest brilliancy	338 Nov 28 j 15:38	21° ♊ 59'30	-0.8m
evening rise	337 Dec 07 j 21:13	25° ♊ 45'34			338 Dec 03 j 23:11	0° ♋	
	337 Dec 10 j 11:19	0° ♋		evening max el	338 Dec 11 j 09:56	9° ♋ 33'26	19°16'25
evening max el	337 Dec 28 j 00:49	26° ♋ 05'55	18°36'02	asc. node	338 Dec 16 j 09:52	13° ♋ 13'09	
asc. node	337 Dec 29 j 12:51	27° ♋ 30'00		retrograde	338 Dec 18 j 11:39	13° ♋ 36'55	
retrograde	338 Jan 03 j 15:51	29° ♋ 46'35		evening set	338 Dec 21 j 20:27	12° ♋ 30'49	
evening set	338 Jan 06 j 18:02	28° ♋ 52'58		inferior conj	338 Dec 27 j 10:34	6° ♋ 39'13	3°09'11
inferior conj	338 Jan 12 j 13:48	23° ♋ 17'15	3°35'17	minimum elong	338 Dec 27 j 07:53	6° ♋ 47'49	3°08'33
minimum elong	338 Jan 12 j 11:46	23° ♋ 23'18	3°35'00	min. Earth dist.	338 Dec 28 j 18:50	4° ♋ 55'55	0.66064 AU
min. Earth dist.	338 Jan 14 j 12:57	20° ♋ 56'59	0.64762 AU	morning rise	339 Jan 01 j 19:05	0° ♋ 28'07	
morning rise	338 Jan 18 j 05:02	17° ♋ 09'59			339 Jan 02 j 08:13	30° ♌	
direct	338 Jan 25 j 00:07	14° ♋ 17'41		direct	339 Jan 08 j 03:34	27° ♌ 40'10	
desc. node	338 Feb 06 j 22:48	21° ♋ 38'14			339 Jan 14 j 16:59	0° ♌	
morning max el	338 Feb 07 j 09:22	22° ♋ 04'25	27°12'57	morning max el	339 Jan 20 j 18:47	5° ♌ 07'50	26°13'11
	338 Feb 14 j 08:47	0° ♌		desc. node	339 Jan 24 j 19:50	9° ♌ 31'42	
	338 Mar 06 j 06:40	0° ♌			339 Feb 08 j 21:37	0° ♌	
morning set	338 Mar 14 j 20:44	15° ♌ 48'35		morning set	339 Feb 25 j 23:00	28° ♌ 50'21	
max. Earth dist.	338 Mar 19 j 12:53	25° ♌ 08'32	1.33847 AU		339 Feb 26 j 13:53	0° ♌	
	338 Mar 21 j 21:13	0° ♍		max. Earth dist.	339 Mar 01 j 23:18	6° ♌ 29'48	1.35240 AU
superior conj	338 Mar 23 j 00:58	2° ♍ 25'33	-0°45'35	superior conj	339 Mar 06 j 22:11	16° ♌ 23'28	-1°11'49
minimum elong	338 Mar 23 j 03:11	2° ♍ 37'11	0°45'08	minimum elong	339 Mar 07 j 01:33	16° ♌ 40'38	1°11'15
asc. node	338 Mar 27 j 12:09	11° ♍ 54'12			339 Mar 13 j 12:14	0° ♍	
evening rise	338 Mar 30 j 08:46	17° ♍ 56'35		asc. node	339 Mar 14 j 09:12	1° ♍ 48'11	
	338 Apr 05 j 09:14	0° ♎		evening rise	339 Mar 14 j 16:33	2° ♍ 26'01	
evening max el	338 Apr 20 j 02:44	21° ♎ 23'58	21°55'41		339 Mar 30 j 22:05	0° ♎	
retrograde	338 May 02 j 17:10	27° ♎ 34'14		evening max el	339 Apr 02 j 06:09	2° ♎ 28'52	20°32'16
evening set	338 May 05 j 08:39	27° ♎ 18'39		retrograde	339 Apr 13 j 06:04	7° ♎ 47'05	
desc. node	338 May 05 j 22:00	27° ♎ 11'34		evening set	339 Apr 15 j 09:16	7° ♎ 35'57	
inferior conj	338 May 14 j 18:34	23° ♎ 14'08	-2°27'53	desc. node	339 Apr 22 j 19:01	4° ♎ 38'32	
minimum elong	338 May 14 j 12:06	23° ♎ 23'11	2°25'48	inferior conj	339 Apr 24 j 13:09	3° ♎ 38'23	-0°30'20
min. Earth dist.	338 May 14 j 07:47	23° ♎ 29'15	0.55062 AU	minimum elong	339 Apr 24 j 11:43	3° ♎ 40'27	0°29'49
morning rise	338 May 23 j 16:48	19° ♎ 18'42		min. Earth dist.	339 Apr 25 j 20:54	2° ♎ 52'29	0.55133 AU
direct	338 May 26 j 16:06	18° ♎ 59'05			339 May 01 j 16:31	30° ♏	
morning max el	338 Jun 07 j 16:38	24° ♎ 37'56	21°36'59	morning rise	339 May 03 j 13:05	29° ♍ 25'11	
	338 Jun 12 j 13:24	0° ♏		direct	339 May 07 j 03:24	28° ♍ 57'13	
asc. node	338 Jun 23 j 11:22	17° ♏ 40'11			339 May 12 j 10:22	0° ♏	
morning set	338 Jun 28 j 05:23	27° ♏ 12'10		morning max el	339 May 20 j 11:50	5° ♏ 26'35	23°15'21
	338 Jun 29 j 13:35	0° ♐			339 Jun 06 j 15:12	0° ♏	
superior conj	338 Jul 05 j 13:17	12° ♐ 35'29	1°38'09	asc. node	339 Jun 10 j 08:26	7° ♏ 17'30	
minimum elong	338 Jul 05 j 11:19	12° ♐ 25'17	1°38'00	morning set	339 Jun 12 j 16:36	12° ♏ 07'42	
max. Earth dist.	338 Jul 09 j 08:09	20° ♐ 22'17	1.34976 AU	superior conj	339 Jun 19 j 18:54	27° ♏ 18'32	1°25'05
evening rise	338 Jul 13 j 19:19	29° ♐ 09'32		minimum elong	339 Jun 19 j 16:28	27° ♏ 05'27	1°24'46
	338 Jul 14 j 05:54	0° ♑			339 Jun 21 j 01:11	0° ♐	
desc. node	338 Aug 01 j 00:35	0° ♑		max. Earth dist.	339 Jun 22 j 06:30	2° ♐ 35'05	1.33736 AU
	338 Aug 01 j 21:20	1° ♑ 16'05		evening rise	339 Jun 27 j 09:42	13° ♐ 06'41	
evening max el	338 Aug 18 j 01:02	21° ♑ 14'21	26°48'41		339 Jul 06 j 11:07	0° ♑	
retrograde	338 Aug 31 j 02:44	28° ♑ 30'22		desc. node	339 Jul 19 j 18:20	20° ♑ 42'13	
evening set	338 Sep 06 j 19:51	25° ♑ 46'20			339 Jul 27 j 03:44	0° ♑	
min. Earth dist.	338 Sep 10 j 19:16	21° ♑ 44'18	0.65723 AU	evening max el	339 Jul 31 j 12:45	4° ♑ 34'57	27°20'22
inferior conj	338 Sep 12 j 14:33	19° ♑ 37'08	-2°15'08	retrograde	339 Aug 14 j 00:39	11° ♑ 53'47	
minimum elong	338 Sep 12 j 18:00	19° ♑ 27'00	2°13'51	evening set	339 Aug 21 j 03:03	9° ♑ 10'05	
morning rise	338 Sep 18 j 16:41	13° ♑ 55'30		min. Earth dist.	339 Aug 24 j 20:17	5° ♑ 43'55	0.64374 AU
asc. node	338 Sep 19 j 10:35	13° ♑ 34'53		inferior conj	339 Aug 27 j 04:33	3° ♑ 13'11	-3°09'05
direct	338 Sep 21 j 13:39	13° ♑ 09'40		minimum elong	339 Aug 27 j 09:07	3° ♑ 00'57	3°07'39
morning max el	338 Sep 28 j 04:09	16° ♑ 46'35	18°23'50		339 Aug 30 j 09:43	30° ♒	
	338 Oct 07 j 21:45	0° ♒		morning rise	339 Sep 02 j 16:02	27° ♒ 46'59	
morning set	338 Oct 17 j 15:33	15° ♒ 40'04		direct	339 Sep 05 j 07:18	27° ♒ 11'18	
	338 Oct 26 j 13:28	0° ♓		asc. node	339 Sep 06 j 07:38	27° ♒ 16'39	
desc. node	338 Oct 28 j 20:38	3° ♓ 39'11			339 Sep 11 j 03:30	0° ♒	
superior conj	338 Nov 01 j 22:23	10° ♓ 05'24	-0°26'38	morning max el	339 Sep 11 j 19:31	0° ♒ 38'23	17°59'29
minimum elong	338 Nov 01 j 18:53	9° ♓ 51'37	0°26'10	morning set	339 Sep 29 j 04:44	27° ♒ 07'59	
max. Earth dist.	338 Nov 03 j 13:37	12° ♓ 39'49	1.45043 AU		339 Sep 30 j 21:20	0° ♓	
	338 Nov 14 j 14:51	0° ♓		superior conj	339 Oct 12 j 10:51	19° ♓ 08'45	0°21'42

minimum elong	339 Oct 12 j 13:20	19°  18'45	0°21'22	max. Earth dist.	340 Sep 28 j 23:24	10°  57'36	1.43336 AU
desc. node	339 Oct 15 j 17:39	24°  25'08		desc. node	340 Oct 01 j 14:40	15°  12'04	
max. Earth dist.	339 Oct 17 j 08:16	26°  58'49	1.44522 AU	evening rise	340 Oct 07 j 01:42	23°  48'06	
	339 Oct 19 j 06:05	0°  ♌			340 Oct 11 j 02:14	0°  ♌	
evening rise	339 Oct 28 j 18:08	14°  ♌48'15			340 Oct 31 j 23:02	0°  ♌	
	339 Nov 07 j 17:10	0°  ♌		evening max el	340 Nov 06 j 12:59	6°  ♌30'38	21°20'43
greatest brilliancy	339 Nov 11 j 20:00	6°  ♌08'45	-0.6m	retrograde	340 Nov 15 j 06:39	11°  ♌42'16	
evening max el	339 Nov 24 j 14:20	23°  ♌01'55	20°12'15	evening set	340 Nov 19 j 10:03	10°  ♌06'08	
retrograde	339 Dec 02 j 09:18	27°  ♌36'30		asc. node	340 Nov 19 j 03:58	10°  ♌17'40	
asc. node	339 Dec 03 j 06:55	27°  ♌31'54		inferior conj	340 Nov 24 j 18:45	3°  ♌51'43	1°50'28
evening set	339 Dec 06 j 02:26	26°  ♌16'15		minimum elong	340 Nov 24 j 16:29	3°  ♌59'30	1°49'38
inferior conj	339 Dec 11 j 12:58	20°  ♌11'33	2°33'28	min. Earth dist.	340 Nov 25 j 01:50	3°  ♌27'16	0.67504 AU
minimum elong	339 Dec 11 j 10:15	20°  ♌20'41	2°32'38		340 Nov 27 j 16:52	30°  ♌	
min. Earth dist.	339 Dec 12 j 07:51	19°  ♌08'02	0.66968 AU	morning rise	340 Nov 29 j 22:46	27°  ♌38'32	
morning rise	339 Dec 16 j 17:54	13°  ♌58'29		direct	340 Dec 05 j 02:02	25°  ♌25'39	
direct	339 Dec 22 j 12:23	11°  ♌25'10			340 Dec 13 j 19:32	0°  ♌	
morning max el	340 Jan 03 j 03:24	18°  ♌20'35	24°54'38	morning max el	340 Dec 15 j 12:23	1°  ♌38'14	23°27'20
desc. node	340 Jan 11 j 16:53	28°  ♌19'48		desc. node	340 Dec 28 j 13:56	17°  ♌46'52	
	340 Jan 12 j 23:33	0°  ♌			341 Jan 06 j 00:07	0°  ♌	
	340 Feb 01 j 23:14	0°  ♌		morning set	341 Jan 19 j 15:20	21°  ♌44'24	
morning set	340 Feb 08 j 07:17	10°  ♌54'18		max. Earth dist.	341 Jan 23 j 18:23	28°  ♌49'43	1.39134 AU
max. Earth dist.	340 Feb 11 j 23:16	17°  ♌32'50	1.37052 AU		341 Jan 24 j 10:24	0°  ♌	
superior conj	340 Feb 18 j 09:33	29°  ♌47'13	-1°35'18	superior conj	341 Jan 31 j 07:07	12°  ♌26'41	-1°53'19
minimum elong	340 Feb 18 j 13:30	0°  ♌06'31	1°34'49	minimum elong	341 Jan 31 j 10:26	12°  ♌42'11	1°53'07
	340 Feb 18 j 12:10	0°  ♌			341 Feb 09 j 11:06	0°  ♌	
evening rise	340 Feb 26 j 19:09	16°  ♌33'59		evening rise	341 Feb 09 j 13:52	0°  ♌13'25	
asc. node	340 Feb 29 j 06:15	21°  ♌27'04		asc. node	341 Feb 15 j 03:18	10°  ♌45'19	
	340 Mar 04 j 19:17	0°  ♌		evening max el	341 Feb 25 j 21:31	26°  ♌30'31	18°40'14
evening max el	340 Mar 14 j 20:51	14°  ♌11'25	19°26'19		341 Mar 03 j 08:47	0°  ♌	
retrograde	340 Mar 24 j 04:02	18°  ♌39'48		retrograde	341 Mar 05 j 19:30	0°  ♌21'53	
evening set	340 Mar 26 j 07:30	18°  ♌26'34		evening set	341 Mar 08 j 03:55	0°  ♌02'43	
inferior conj	340 Apr 03 j 18:43	14°  ♌19'55	1°21'33		341 Mar 08 j 07:51	30°  ♌	
minimum elong	340 Apr 03 j 21:54	14°  ♌14'43	1°20'29	inferior conj	341 Mar 15 j 20:02	25°  ♌38'27	2°43'21
min. Earth dist.	340 Apr 06 j 11:24	12°  ♌35'13	0.56125 AU	minimum elong	341 Mar 16 j 00:16	25°  ♌30'24	2°42'19
desc. node	340 Apr 08 j 16:03	11°  ♌16'45		min. Earth dist.	341 Mar 19 j 04:50	23°  ♌06'23	0.57822 AU
morning rise	340 Apr 12 j 09:35	9°  ♌34'55		morning rise	341 Mar 23 j 17:40	20°  ♌21'11	
direct	340 Apr 16 j 23:49	8°  ♌47'03		desc. node	341 Mar 26 j 13:07	19°  ♌21'19	
morning max el	340 May 01 j 02:37	15°  ♌56'00	24°55'51	direct	341 Mar 29 j 10:22	19°  ♌00'23	
	340 May 12 j 09:51	0°  ♌		morning max el	341 Apr 12 j 19:00	26°  ♌34'22	26°23'01
morning set	340 May 27 j 04:35	27°  ♌06'00			341 Apr 16 j 01:16	0°  ♌	
asc. node	340 May 27 j 05:31	27°  ♌10'58			341 May 05 j 16:02	0°  ♌	
	340 May 28 j 13:21	0°  ♌		morning set	341 May 11 j 15:37	12°  ♌00'52	
				asc. node	341 May 14 j 02:34	17°  ♌14'45	
superior conj	340 Jun 03 j 04:27	12°  ♌12'58	1°07'35				
minimum elong	340 Jun 03 j 02:03	11°  ♌59'58	1°07'11	superior conj	341 May 18 j 15:55	27°  ♌11'41	0°46'33
max. Earth dist.	340 Jun 04 j 12:55	15°  ♌09'20	1.32880 AU	minimum elong	341 May 18 j 14:02	27°  ♌01'21	0°46'11
evening rise	340 Jun 10 j 09:18	27°  ♌31'19		max. Earth dist.	341 May 19 j 00:12	27°  ♌57'10	1.32407 AU
	340 Jun 11 j 14:36	0°  ♌			341 May 19 j 22:36	0°  ♌	
	340 Jun 28 j 18:05	0°  ♌		evening rise	341 May 25 j 15:10	12°  ♌13'34	
desc. node	340 Jul 05 j 15:20	9°  ♌25'18			341 Jun 03 j 18:28	0°  ♌	
evening max el	340 Jul 12 j 21:56	17°  ♌28'42	27°22'41	desc. node	341 Jun 22 j 12:23	27°  ♌06'36	
retrograde	340 Jul 26 j 16:24	24°  ♌46'47		evening max el	341 Jun 25 j 02:05	29°  ♌42'55	26°52'10
evening set	340 Aug 02 j 21:23	22°  ♌15'36			341 Jun 25 j 09:20	0°  ♌	
min. Earth dist.	340 Aug 06 j 11:14	19°  ♌19'17	0.62672 AU	retrograde	341 Jul 09 j 01:06	6°  ♌58'52	
inferior conj	340 Aug 09 j 08:17	16°  ♌34'02	-3°56'59	evening set	341 Jul 15 j 22:20	4°  ♌54'16	
minimum elong	340 Aug 09 j 13:07	16°  ♌22'23	3°55'50	min. Earth dist.	341 Jul 19 j 15:57	2°  ♌15'00	0.60698 AU
morning rise	340 Aug 16 j 06:10	11°  ♌26'42			341 Jul 22 j 08:18	30°  ♌	
direct	340 Aug 18 j 18:10	10°  ♌58'13		inferior conj	341 Jul 22 j 22:16	29°  ♌30'21	-4°32'55
asc. node	340 Aug 23 j 04:43	12°  ♌30'03		minimum elong	341 Jul 23 j 01:50	29°  ♌22'48	4°32'27
morning max el	340 Aug 25 j 11:09	14°  ♌23'53	17°53'03	morning rise	341 Jul 30 j 07:10	24°  ♌44'32	
	340 Sep 05 j 05:02	0°  ♌		direct	341 Aug 01 j 18:15	24°  ♌20'53	
morning set	340 Sep 10 j 16:39	9°  ♌41'19		morning max el	341 Aug 08 j 23:59	27°  ♌54'24	18°05'33
				asc. node	341 Aug 10 j 01:47	29°  ♌00'48	
superior conj	340 Sep 22 j 01:05	29°  ♌29'33	1°01'09		341 Aug 10 j 22:34	0°  ♌	
minimum elong	340 Sep 22 j 05:58	29°  ♌50'12	1°00'33	morning set	341 Aug 24 j 21:16	23°  ♌02'26	
	340 Sep 22 j 08:18	0°  ♌			341 Aug 28 j 14:59	0°  ♌	

superior conj	341 Sep 03 j 17:59	11° \mathbb{M} 08'54	1°27'55	minimum elong	342 Aug 17 j 10:43	24° Ω 02'37	1°42'23
minimum elong	341 Sep 03 j 22:05	11° \mathbb{M} 27'08	1°27'32		342 Aug 20 j 16:00	0° \mathbb{M}	
max. Earth dist.	341 Sep 11 j 08:51	24° \mathbb{M} 19'20	1.41643 AU	max. Earth dist.	342 Aug 24 j 13:21	6° \mathbb{M} 57'39	1.39668 AU
	341 Sep 14 j 19:14	0° \mathbb{L}		evening rise	342 Aug 28 j 16:35	14° \mathbb{M} 04'39	
evening rise	341 Sep 16 j 21:33	3° \mathbb{L} 23'47		desc. node	342 Sep 05 j 08:43	26° \mathbb{M} 33'51	
desc. node	341 Sep 18 j 11:42	5° \mathbb{L} 56'13			342 Sep 07 j 13:45	0° \mathbb{L}	
	341 Oct 04 j 11:21	0° \mathbb{M}			342 Sep 29 j 11:32	0° \mathbb{M}	
evening max el	341 Oct 20 j 06:10	20° \mathbb{M} 00'27	22°37'52	evening max el	342 Oct 02 j 19:33	3° \mathbb{M} 33'33	23°58'06
retrograde	341 Oct 30 j 01:58	25° \mathbb{M} 50'49		retrograde	342 Oct 13 j 17:49	9° \mathbb{M} 59'08	
evening set	341 Nov 03 j 17:33	23° \mathbb{M} 57'31		evening set	342 Oct 18 j 23:16	7° \mathbb{M} 48'07	
asc. node	341 Nov 06 j 01:01	21° \mathbb{M} 36'56		asc. node	342 Oct 23 j 22:04	2° \mathbb{M} 01'51	
inferior conj	341 Nov 09 j 01:54	17° \mathbb{M} 37'09	1°01'53	inferior conj	342 Oct 24 j 08:41	1° \mathbb{M} 25'49	0°09'10
minimum elong	341 Nov 09 j 00:31	17° \mathbb{M} 41'58	1°01'19	minimum elong	342 Oct 24 j 08:28	1° \mathbb{M} 26'34	0°09'04
min. Earth dist.	341 Nov 08 j 22:16	17° \mathbb{M} 49'43	0.67699 AU	transit middle	342 Oct 24 j 08:28	1° \mathbb{M} 26'34	0°09'04
morning rise	341 Nov 14 j 07:21	11° \mathbb{M} 26'03		transit begin	342 Oct 24 j 06:12	1° \mathbb{M} 34'15	
direct	341 Nov 18 j 19:45	9° \mathbb{M} 35'39		transit end	342 Oct 24 j 10:43	1° \mathbb{M} 18'54	
morning max el	341 Nov 28 j 00:43	15° \mathbb{M} 01'29	22°00'44	min. Earth dist.	342 Oct 23 j 18:41	2° \mathbb{M} 13'17	0.67574 AU
	341 Dec 10 j 01:37	0° \mathbb{M}			342 Oct 25 j 10:12	30° \mathbb{R} \mathbb{L}	
desc. node	341 Dec 15 j 10:59	7° \mathbb{M} 41'42		morning rise	342 Oct 29 j 17:37	25° \mathbb{L} 19'20	
	341 Dec 30 j 00:52	0° \mathbb{Z}		direct	342 Nov 02 j 16:25	23° \mathbb{L} 50'46	
morning set	341 Dec 30 j 18:22	1° \mathbb{Z} 10'09		morning max el	342 Nov 10 j 19:32	28° \mathbb{L} 33'47	20°42'11
max. Earth dist.	342 Jan 05 j 16:09	10° \mathbb{Z} 51'02	1.41232 AU		342 Nov 12 j 04:11	0° \mathbb{M}	
				desc. node	342 Dec 02 j 08:00	27° \mathbb{M} 56'19	
superior conj	342 Jan 13 j 09:54	24° \mathbb{Z} 09'42	-2°02'14		342 Dec 03 j 16:38	0° \mathbb{M}	
minimum elong	342 Jan 13 j 10:38	24° \mathbb{Z} 12'56	2°02'14	morning set	342 Dec 09 j 20:37	9° \mathbb{M} 28'52	
	342 Jan 16 j 16:15	0° \mathbb{M}		max. Earth dist.	342 Dec 18 j 21:28	23° \mathbb{M} 48'32	1.43064 AU
evening rise	342 Jan 23 j 21:22	13° \mathbb{M} 16'20			342 Dec 22 j 16:23	0° \mathbb{Z}	
asc. node	342 Feb 02 j 00:21	29° \mathbb{M} 35'59					
	342 Feb 02 j 06:15	0° \mathbb{M}		superior conj	342 Dec 25 j 12:31	4° \mathbb{Z} 43'25	-1°57'24
evening max el	342 Feb 09 j 05:16	9° \mathbb{M} 18'33	18°14'16	minimum elong	342 Dec 25 j 08:35	4° \mathbb{Z} 26'58	1°57'13
retrograde	342 Feb 16 j 05:19	12° \mathbb{M} 48'55		evening rise	343 Jan 06 j 13:37	25° \mathbb{Z} 33'41	
evening set	342 Feb 18 j 19:02	12° \mathbb{M} 21'28			343 Jan 09 j 01:47	0° \mathbb{M}	
inferior conj	342 Feb 25 j 18:17	7° \mathbb{M} 36'28	3°30'20	asc. node	343 Jan 19 j 21:23	17° \mathbb{M} 49'38	
minimum elong	342 Feb 25 j 20:58	7° \mathbb{M} 30'32	3°29'59	evening max el	343 Jan 23 j 16:50	22° \mathbb{M} 25'24	18°07'54
min. Earth dist.	342 Mar 01 j 03:15	4° \mathbb{M} 39'03	0.59884 AU	retrograde	343 Jan 30 j 06:03	25° \mathbb{M} 49'57	
morning rise	342 Mar 04 j 20:44	1° \mathbb{M} 56'04		evening set	343 Feb 02 j 00:28	25° \mathbb{M} 12'58	
	342 Mar 10 j 09:47	30° \mathbb{R} \mathbb{M}		inferior conj	343 Feb 08 j 10:24	20° \mathbb{M} 06'53	3°48'19
direct	342 Mar 11 j 09:47	29° \mathbb{M} 57'15		minimum elong	343 Feb 08 j 10:52	20° \mathbb{M} 05'41	3°48'18
	342 Mar 12 j 09:58	0° \mathbb{M}		min. Earth dist.	343 Feb 11 j 09:06	17° \mathbb{M} 09'13	0.61975 AU
desc. node	342 Mar 13 j 10:10	0° \mathbb{M} 08'08		morning rise	343 Feb 14 j 20:03	14° \mathbb{M} 12'02	
morning max el	342 Mar 25 j 16:43	7° \mathbb{M} 44'10	27°22'53	direct	343 Feb 21 j 18:54	11° \mathbb{M} 41'49	
	342 Apr 11 j 13:17	0° \mathbb{Y}		desc. node	343 Feb 28 j 07:12	13° \mathbb{M} 36'27	
morning set	342 Apr 26 j 00:02	26° \mathbb{Y} 46'26		morning max el	343 Mar 07 j 20:24	19° \mathbb{M} 33'49	27°47'23
	342 Apr 27 j 12:57	0° \mathbb{Z}			343 Mar 16 j 18:12	0° \mathbb{M}	
asc. node	342 Apr 30 j 23:37	7° \mathbb{Z} 24'28			343 Apr 04 j 09:57	0° \mathbb{Y}	
max. Earth dist.	342 May 02 j 12:47	10° \mathbb{Z} 47'37	1.32310 AU	morning set	343 Apr 10 j 03:46	11° \mathbb{Y} 14'53	
				max. Earth dist.	343 Apr 15 j 22:51	23° \mathbb{Y} 26'39	1.32589 AU
superior conj	342 May 03 j 03:36	12° \mathbb{Z} 08'50	0°22'46				
minimum elong	342 May 03 j 02:35	12° \mathbb{Z} 03'18	0°22'33	superior conj	343 Apr 17 j 13:45	26° \mathbb{Y} 57'28	-0°03'04
evening rise	342 May 10 j 00:56	27° \mathbb{Z} 05'47		minimum elong	343 Apr 17 j 13:53	26° \mathbb{Y} 58'14	0°03'02
	342 May 11 j 10:14	0° \mathbb{I}		behind sun begin	343 Apr 17 j 08:50	26° \mathbb{Y} 30'45	
	342 May 28 j 13:05	0° \mathbb{L}		behind sun end	343 Apr 17 j 18:56	27° \mathbb{Y} 25'43	
evening max el	342 Jun 06 j 23:36	11° \mathbb{L} 12'05	25°50'03	asc. node	343 Apr 17 j 20:40	27° \mathbb{Y} 35'08	
desc. node	342 Jun 09 j 09:25	13° \mathbb{L} 20'30			343 Apr 18 j 23:15	0° \mathbb{Z}	
retrograde	342 Jun 21 j 00:46	18° \mathbb{L} 23'42		evening rise	343 Apr 24 j 12:31	11° \mathbb{Z} 59'56	
evening set	342 Jun 27 j 01:28	16° \mathbb{L} 56'34			343 May 03 j 16:47	0° \mathbb{I}	
min. Earth dist.	342 Jul 01 j 12:08	14° \mathbb{L} 16'41	0.58641 AU	evening max el	343 May 19 j 15:19	22° \mathbb{I} 01'47	24°24'20
inferior conj	342 Jul 04 j 18:55	11° \mathbb{L} 52'54	-4°47'37	desc. node	343 May 27 j 06:26	27° \mathbb{I} 33'03	
minimum elong	342 Jul 04 j 19:03	11° \mathbb{L} 52'41	4°47'37	retrograde	343 Jun 02 j 12:49	29° \mathbb{I} 02'25	
morning rise	342 Jul 12 j 15:02	7° \mathbb{L} 29'23		evening set	343 Jun 07 j 05:38	28° \mathbb{I} 13'01	
direct	342 Jul 15 j 03:18	7° \mathbb{L} 08'49		min. Earth dist.	343 Jun 13 j 02:36	25° \mathbb{I} 16'17	0.56782 AU
morning max el	342 Jul 23 j 06:50	11° \mathbb{L} 00'57	18°38'09	inferior conj	343 Jun 15 j 19:37	23° \mathbb{I} 33'03	-4°28'28
asc. node	342 Jul 27 j 22:50	16° \mathbb{L} 33'40		minimum elong	343 Jun 15 j 14:54	23° \mathbb{I} 40'36	4°27'50
	342 Aug 04 j 22:21	0° \mathbb{L}		morning rise	343 Jun 24 j 02:55	19° \mathbb{I} 29'17	
morning set	342 Aug 08 j 13:48	6° \mathbb{L} 58'35		direct	343 Jun 26 j 17:53	19° \mathbb{I} 10'35	
				morning max el	343 Jul 06 j 04:48	23° \mathbb{I} 34'07	19°31'50
superior conj	342 Aug 17 j 08:39	23° \mathbb{L} 52'56	1°42'29		343 Jul 11 j 15:24	0° \mathbb{L}	

asc. node	343 Jul 14 j 19:52	4°♄54'44		asc. node	344 Jun 30 j 16:54	23°♄52'34	
morning set	343 Jul 23 j 14:41	21°♄20'25			344 Jul 03 j 21:47	0°♄	
	343 Jul 27 j 21:55	0°♄		morning set	344 Jul 06 j 21:11	6°♄00'15	
superior conj	343 Jul 31 j 15:32	7°♄26'10	1°46'54	superior conj	344 Jul 14 j 09:55	21°♄35'00	1°43'14
minimum elong	343 Jul 31 j 15:35	7°♄26'29	1°46'55	minimum elong	344 Jul 14 j 08:31	21°♄27'50	1°43'10
max. Earth dist.	343 Aug 06 j 16:53	19°♄01'24	1.37663 AU		344 Jul 18 j 14:25	0°♄	
evening rise	343 Aug 10 j 11:54	25°♄54'40		max. Earth dist.	344 Jul 19 j 00:51	0°♄51'14	1.35856 AU
	343 Aug 12 j 19:50	0°♄		evening rise	344 Jul 23 j 03:40	8°♄44'10	
desc. node	343 Aug 23 j 05:45	17°♄00'38			344 Aug 04 j 11:08	0°♄	
	343 Sep 01 j 02:59	0°♄		desc. node	344 Aug 09 j 02:46	7°♄10'26	
evening max el	343 Sep 15 j 07:21	17°♄10'32	25°14'31		344 Aug 26 j 23:54	0°♄	
retrograde	343 Sep 27 j 05:24	24°♄03'32		evening max el	344 Aug 27 j 19:00	0°♄47'05	26°19'30
evening set	343 Oct 03 j 01:30	21°♄35'59		retrograde	344 Sep 09 j 12:05	7°♄57'49	
min. Earth dist.	343 Oct 07 j 12:38	16°♄36'12	0.67124 AU	evening set	344 Sep 15 j 22:17	5°♄17'34	
inferior conj	343 Oct 08 j 13:20	15°♄15'42	-0°46'15	min. Earth dist.	344 Sep 20 j 01:43	0°♄54'33	0.66335 AU
minimum elong	343 Oct 08 j 14:30	15°♄11'54	0°45'46		344 Sep 20 j 19:34	30°♄	
asc. node	343 Oct 10 j 19:05	12°♄26'55		inferior conj	344 Sep 21 j 14:01	29°♄03'15	-1°42'51
morning rise	343 Oct 14 j 03:39	9°♄16'43		minimum elong	344 Sep 21 j 16:39	28°♄55'09	1°41'47
direct	343 Oct 17 j 14:42	8°♄07'32		asc. node	344 Sep 26 j 16:07	23°♄45'53	
morning max el	343 Oct 24 j 22:11	12°♄16'56	19°36'24	morning rise	344 Sep 27 j 11:25	23°♄14'38	
	343 Nov 07 j 04:15	0°♄		direct	344 Sep 30 j 12:48	22°♄21'26	
greatest brilliancy	343 Nov 07 j 14:16	0°♄37'36	-0.7m	morning max el	344 Oct 07 j 07:36	26°♄07'28	18°45'42
morning set	343 Nov 18 j 18:26	17°♄44'18			344 Oct 10 j 16:00	0°♄	
desc. node	343 Nov 19 j 05:01	18°♄25'18		morning set	344 Oct 28 j 11:11	27°♄01'07	
	343 Nov 26 j 15:22	0°♄			344 Oct 30 j 08:20	0°♄	
max. Earth dist.	343 Dec 01 j 10:34	7°♄34'08	1.44377 AU	desc. node	344 Nov 05 j 02:02	9°♄03'38	
				max. Earth dist.	344 Nov 13 j 04:07	21°♄46'37	1.45008 AU
superior conj	343 Dec 05 j 12:24	14°♄04'27	-1°34'43	superior conj	344 Nov 13 j 16:11	22°♄34'02	-0°54'34
minimum elong	343 Dec 05 j 04:20	13°♄32'05	1°33'59	minimum elong	344 Nov 13 j 09:22	22°♄07'15	0°53'44
	343 Dec 15 j 06:17	0°♄			344 Nov 18 j 09:25	0°♄	
evening rise	343 Dec 19 j 10:21	6°♄58'41		evening rise	344 Nov 29 j 07:59	17°♄25'08	
	344 Jan 02 j 14:22	0°♄			344 Dec 07 j 04:03	0°♄	
asc. node	344 Jan 06 j 18:24	5°♄15'40		evening max el	344 Dec 20 j 16:16	19°♄09'00	18°51'07
evening max el	344 Jan 07 j 05:22	5°♄44'11	18°20'27	asc. node	344 Dec 23 j 15:25	21°♄40'28	
retrograde	344 Jan 13 j 17:19	9°♄15'49		retrograde	344 Dec 27 j 11:03	22°♄58'34	
evening set	344 Jan 16 j 16:27	8°♄28'29		evening set	344 Dec 30 j 15:49	21°♄59'49	
inferior conj	344 Jan 22 j 16:31	3°♄02'43	3°44'43	inferior conj	345 Jan 05 j 08:53	16°♄16'45	3°25'34
minimum elong	344 Jan 22 j 15:12	3°♄06'28	3°44'36	minimum elong	345 Jan 05 j 06:29	16°♄24'07	3°25'08
min. Earth dist.	344 Jan 25 j 00:26	0°♄25'05	0.63845 AU	min. Earth dist.	345 Jan 07 j 01:28	14°♄11'41	0.65362 AU
	344 Jan 25 j 09:39	30°♄		morning rise	345 Jan 10 j 20:50	10°♄07'23	
morning rise	344 Jan 28 j 13:19	26°♄58'53		direct	345 Jan 17 j 11:47	7°♄15'41	
direct	344 Feb 04 j 11:56	24°♄10'42		morning max el	345 Jan 30 j 14:27	14°♄56'12	26°50'29
desc. node	344 Feb 15 j 04:14	29°♄14'11		desc. node	345 Feb 01 j 01:16	16°♄26'12	
	344 Feb 16 j 01:16	0°♄			345 Feb 11 j 23:07	0°♄	
morning max el	344 Feb 18 j 04:35	2°♄01'32	27°35'06		345 Mar 02 j 17:12	0°♄	
	344 Mar 09 j 23:42	0°♄		morning set	345 Mar 07 j 10:37	8°♄46'47	
morning set	344 Mar 24 j 00:22	25°♄18'19		max. Earth dist.	345 Mar 11 j 19:54	17°♄22'58	1.34385 AU
	344 Mar 26 j 08:24	0°♄					
max. Earth dist.	344 Mar 29 j 02:29	5°♄41'38	1.33270 AU	superior conj	345 Mar 15 j 22:03	25°♄45'08	-0°56'55
superior conj	344 Mar 31 j 20:35	11°♄31'39	-0°29'59	minimum elong	345 Mar 16 j 00:48	25°♄59'24	0°56'24
minimum elong	344 Mar 31 j 22:02	11°♄39'24	0°29'41		345 Mar 17 j 22:48	0°♄	
asc. node	344 Apr 03 j 17:41	17°♄42'37		asc. node	345 Mar 21 j 14:45	7°♄43'04	
evening rise	344 Apr 08 j 00:06	26°♄49'34		evening rise	345 Mar 23 j 09:52	11°♄28'32	
	344 Apr 09 j 12:35	0°♄			345 Apr 02 j 02:35	0°♄	
	344 Apr 27 j 19:05	0°♄		evening max el	345 Apr 12 j 03:34	13°♄21'42	21°18'18
evening max el	344 Apr 30 j 06:12	2°♄34'33	22°48'55	retrograde	345 Apr 24 j 03:04	19°♄11'22	
desc. node	344 May 13 j 03:28	9°♄08'54		evening set	345 Apr 26 j 11:06	18°♄58'49	
retrograde	344 May 13 j 12:24	9°♄09'13		desc. node	345 Apr 30 j 00:29	17°♄55'59	
evening set	344 May 16 j 19:06	8°♄45'38		inferior conj	345 May 05 j 20:12	14°♄58'57	-1°39'32
min. Earth dist.	344 May 24 j 14:51	5°♄19'19	0.55460 AU	minimum elong	345 May 05 j 15:33	15°♄05'29	1°37'55
inferior conj	344 May 26 j 01:20	4°♄29'48	-3°24'29	min. Earth dist.	345 May 06 j 03:41	14°♄48'25	0.54969 AU
minimum elong	344 May 25 j 17:56	4°♄40'26	3°22'31	morning rise	345 May 14 j 20:22	10°♄58'22	
morning rise	344 Jun 03 j 19:09	0°♄36'34		direct	345 May 18 j 00:27	10°♄36'31	
direct	344 Jun 06 j 14:10	0°♄18'20		morning max el	345 May 30 j 16:26	16°♄37'34	22°17'50
morning max el	344 Jun 17 j 15:56	5°♄26'31	20°46'12		345 Jun 10 j 04:23	0°♄	

asc. node	345 Jun 17 j 13:58	13° Π 18'12		morning max el	346 May 12 j 09:09	27° Υ 15'58	23°58'37
morning set	345 Jun 21 j 07:15	20° Π 52'26			346 May 15 j 01:11	0° \mathcal{B}	
	345 Jun 25 j 14:47	0° \mathcal{E}			346 Jun 02 j 23:12	0° Π	
superior conj	345 Jun 28 j 12:20	6° \mathcal{E} 09'07	1°33'13	asc. node	346 Jun 04 j 11:03	3° Π 03'16	
minimum elong	345 Jun 28 j 10:06	5° \mathcal{E} 57'20	1°33'00	morning set	346 Jun 05 j 19:00	5° Π 50'00	
max. Earth dist.	345 Jul 01 j 17:27	12° \mathcal{E} 51'19	1.34394 AU	superior conj	346 Jun 12 j 19:56	20° Π 58'25	1°18'10
evening rise	345 Jul 06 j 11:08	22° \mathcal{E} 21'08		minimum elong	346 Jun 12 j 17:27	20° Π 45'03	1°17'47
	345 Jul 10 j 11:57	0° \mathcal{Q}		max. Earth dist.	346 Jun 14 j 19:20	25° Π 12'57	1.33324 AU
desc. node	345 Jul 26 j 23:48	26° \mathcal{Q} 55'54			346 Jun 17 j 01:38	0° \mathcal{E}	
	345 Jul 29 j 04:34	0° \mathcal{M}		evening rise	346 Jun 20 j 05:53	6° \mathcal{E} 31'47	
evening max el	345 Aug 10 j 06:52	14° \mathcal{M} 16'36	27°05'21		346 Jul 03 j 01:22	0° \mathcal{Q}	
retrograde	345 Aug 23 j 13:37	21° \mathcal{M} 35'25		desc. node	346 Jul 13 j 20:50	16° \mathcal{Q} 05'49	
evening set	345 Aug 30 j 11:20	18° \mathcal{M} 49'52		evening max el	346 Jul 23 j 17:49	27° \mathcal{Q} 27'34	27°25'14
min. Earth dist.	345 Sep 03 j 07:47	15° \mathcal{M} 03'40	0.65191 AU		346 Jul 26 j 14:59	0° \mathcal{M}	
inferior conj	345 Sep 05 j 08:38	12° \mathcal{M} 45'18	-2°38'32	retrograde	346 Aug 06 j 09:15	4° \mathcal{M} 46'54	
minimum elong	345 Sep 05 j 12:37	12° \mathcal{M} 34'00	2°37'07	evening set	346 Aug 13 j 13:33	2° \mathcal{M} 06'59	
morning rise	345 Sep 11 j 14:38	7° \mathcal{M} 10'05			346 Aug 16 j 01:42	30° \mathcal{R} \mathcal{Q}	
asc. node	345 Sep 13 j 13:09	6° \mathcal{M} 32'46		min. Earth dist.	346 Aug 17 j 04:49	28° \mathcal{Q} 54'22	0.63687 AU
direct	345 Sep 14 j 08:47	6° \mathcal{M} 29'08		inferior conj	346 Aug 19 j 18:39	26° \mathcal{Q} 15'56	-3°30'29
morning max el	345 Sep 20 j 21:37	10° \mathcal{M} 00'59	18°11'22	minimum elong	346 Aug 19 j 23:28	26° \mathcal{Q} 03'33	3°29'06
	345 Oct 04 j 16:26	0° \mathcal{L}		morning rise	346 Aug 26 j 10:28	20° \mathcal{Q} 57'15	
morning set	345 Oct 09 j 08:36	7° \mathcal{L} 43'11		direct	346 Aug 28 j 23:54	20° \mathcal{Q} 25'04	
desc. node	345 Oct 22 j 23:05	29° \mathcal{L} 48'00		asc. node	346 Aug 31 j 10:14	20° \mathcal{Q} 54'30	
	345 Oct 23 j 02:06	0° \mathcal{M}		morning max el	346 Sep 04 j 13:26	23° \mathcal{Q} 50'56	17°54'26
superior conj	345 Oct 23 j 19:22	1° \mathcal{M} 08'35	-0°05'36		346 Sep 09 j 11:37	0° \mathcal{M}	
minimum elong	345 Oct 23 j 18:39	1° \mathcal{M} 05'45	0°05'30	morning set	346 Sep 21 j 08:14	19° \mathcal{M} 41'05	
behind sun begin	345 Oct 23 j 08:17	0° \mathcal{M} 24'35			346 Sep 27 j 08:15	0° \mathcal{L}	
behind sun end	345 Oct 24 j 05:01	1° \mathcal{M} 46'54		superior conj	346 Oct 03 j 17:56	10° \mathcal{L} 42'36	0°39'54
max. Earth dist.	345 Oct 26 j 22:40	6° \mathcal{M} 06'23	1.44904 AU	minimum elong	346 Oct 03 j 21:56	10° \mathcal{L} 59'03	0°39'21
evening rise	345 Nov 09 j 06:44	26° \mathcal{M} 56'28		max. Earth dist.	346 Oct 09 j 15:40	20° \mathcal{L} 17'09	1.44089 AU
	345 Nov 11 j 05:59	0° \mathcal{X}		desc. node	346 Oct 09 j 20:08	20° \mathcal{L} 34'58	
greatest brilliancy	345 Nov 21 j 17:55	16° \mathcal{X} 08'51	-0.7m		346 Oct 15 j 19:20	0° \mathcal{M}	
	345 Dec 01 j 15:41	0° \mathcal{Z}		evening rise	346 Oct 19 j 15:06	5° \mathcal{M} 55'49	
evening max el	345 Dec 03 j 23:29	2° \mathcal{Z} 36'48	19°38'26		346 Nov 04 j 15:45	0° \mathcal{X}	
asc. node	345 Dec 10 j 12:28	6° \mathcal{Z} 49'22		evening max el	346 Nov 17 j 01:33	16° \mathcal{X} 05'49	20°40'09
retrograde	345 Dec 11 j 08:00	6° \mathcal{Z} 53'05		retrograde	346 Nov 25 j 05:41	20° \mathcal{X} 55'36	
evening set	345 Dec 14 j 20:01	5° \mathcal{Z} 41'22		asc. node	346 Nov 27 j 09:30	20° \mathcal{X} 29'12	
inferior conj	345 Dec 20 j 08:23	29° \mathcal{X} 43'48	2°55'03	evening set	346 Nov 29 j 02:54	19° \mathcal{X} 28'59	
minimum elong	345 Dec 20 j 05:37	29° \mathcal{X} 52'53	2°54'20	inferior conj	346 Dec 04 j 12:28	13° \mathcal{X} 20'00	2°16'01
	345 Dec 20 j 03:27	30° \mathcal{R} \mathcal{X}		minimum elong	346 Dec 04 j 09:54	13° \mathcal{X} 28'46	2°15'10
min. Earth dist.	345 Dec 21 j 10:49	28° \mathcal{X} 17'04	0.66490 AU	min. Earth dist.	346 Dec 05 j 02:16	12° \mathcal{X} 32'58	0.67237 AU
morning rise	345 Dec 25 j 14:59	23° \mathcal{X} 31'22		morning rise	346 Dec 09 j 16:42	7° \mathcal{X} 06'35	
direct	345 Dec 31 j 17:44	20° \mathcal{X} 48'30		direct	346 Dec 15 j 04:52	4° \mathcal{X} 41'10	
morning max el	346 Jan 12 j 23:37	28° \mathcal{X} 04'57	25°41'28	morning max el	346 Dec 26 j 07:55	11° \mathcal{X} 19'30	24°17'59
	346 Jan 14 j 19:35	0° \mathcal{Z}		desc. node	347 Jan 05 j 19:21	23° \mathcal{X} 51'51	
desc. node	346 Jan 18 j 22:18	4° \mathcal{Z} 45'18			347 Jan 10 j 06:10	0° \mathcal{Z}	
	346 Feb 05 j 16:40	0° \approx			347 Jan 29 j 10:41	0° \approx	
morning set	346 Feb 18 j 06:01	21° \approx 26'38		morning set	347 Jan 31 j 04:49	3° \approx 01'40	
max. Earth dist.	346 Feb 22 j 01:18	28° \approx 32'48	1.35958 AU	max. Earth dist.	347 Feb 03 j 21:54	9° \approx 36'03	1.37913 AU
	346 Feb 22 j 19:32	0° \mathcal{X}		superior conj	347 Feb 10 j 21:39	22° \approx 37'05	-1°43'48
superior conj	346 Feb 27 j 15:32	9° \mathcal{X} 29'57	-1°22'15	minimum elong	347 Feb 11 j 01:31	22° \approx 55'40	1°43'25
minimum elong	346 Feb 27 j 19:15	9° \mathcal{X} 48'35	1°21'42		347 Feb 14 j 16:44	0° \mathcal{X}	
evening rise	346 Mar 07 j 15:46	25° \mathcal{X} 49'52		evening rise	347 Feb 19 j 15:24	9° \mathcal{X} 46'59	
asc. node	346 Mar 08 j 11:48	27° \mathcal{X} 31'26		asc. node	347 Feb 23 j 08:52	17° \mathcal{X} 02'41	
	346 Mar 09 j 17:23	0° Υ			347 Mar 02 j 20:46	0° Υ	
evening max el	346 Mar 25 j 11:54	24° Υ 42'58	20°01'56	evening max el	347 Mar 08 j 07:19	6° Υ 42'52	19°04'18
retrograde	346 Apr 04 j 18:20	29° Υ 38'55		retrograde	347 Mar 16 j 22:49	10° Υ 53'02	
evening set	346 Apr 06 j 20:22	29° Υ 27'37		evening set	347 Mar 19 j 04:22	10° Υ 37'35	
inferior conj	346 Apr 15 j 18:01	25° Υ 28'07	0°19'40	inferior conj	347 Mar 27 j 07:25	6° Υ 24'22	2°00'29
minimum elong	346 Apr 15 j 18:54	25° Υ 26'47	0°19'20	minimum elong	347 Mar 27 j 11:29	6° Υ 17'18	1°59'17
desc. node	346 Apr 16 j 21:32	24° Υ 46'30		min. Earth dist.	347 Mar 30 j 09:16	4° Υ 17'25	0.56784 AU
min. Earth dist.	346 Apr 17 j 17:44	24° Υ 16'13	0.55446 AU	desc. node	347 Apr 03 j 18:33	1° Υ 47'20	
morning rise	346 Apr 24 j 15:20	21° Υ 01'54		morning rise	347 Apr 04 j 15:38	1° Υ 25'11	
direct	346 Apr 28 j 14:52	20° Υ 27'04		direct	347 Apr 09 j 17:43	0° Υ 24'22	

morning max el	347 Apr 23 j 23:45	7° Υ 45'26	25°35'17		348 Apr 14 j 08:18	0° Υ	
	347 May 10 j 10:59	0° B			348 May 01 j 22:49	0° B	
morning set	347 May 21 j 06:48	20° B 47'34		morning set	348 May 04 j 16:57	5° B 39'26	
asc. node	347 May 22 j 08:08	23° B 01'53		asc. node	348 May 08 j 05:12	13° B 08'53	
	347 May 25 j 13:32	0° II					
superior conj	347 May 28 j 06:32	5° II 55'34	0°59'04	superior conj	348 May 11 j 18:17	20° B 54'19	0°36'46
minimum elong	347 May 28 j 04:18	5° II 43'24	0°58'39	minimum elong	348 May 11 j 16:44	20° B 45'47	0°36'27
max. Earth dist.	347 May 29 j 04:18	7° II 54'33	1.32642 AU	max. Earth dist.	348 May 11 j 16:48	20° B 46'11	1.32326 AU
evening rise	347 Jun 04 j 08:31	21° II 05'25			348 May 15 j 22:06	0° II	
	347 Jun 08 j 19:21	0° B		evening rise	348 May 18 j 16:19	5° II 53'05	
	347 Jun 27 j 05:05	0° Ω			348 May 31 j 10:47	0° B	
desc. node	347 Jun 30 j 17:52	4° Ω 25'19		desc. node	348 Jun 16 j 14:53	21° B 33'27	
evening max el	347 Jul 06 j 01:24	10° Ω 06'38	27°13'47	evening max el	348 Jun 17 j 02:58	22° B 02'36	26°29'15
retrograde	347 Jul 19 j 22:00	17° Ω 23'09		retrograde	348 Jul 01 j 02:48	29° B 16'22	
evening set	347 Jul 27 j 01:01	15° Ω 02'02		evening set	348 Jul 07 j 17:11	27° B 26'45	
min. Earth dist.	347 Jul 30 j 15:30	12° Ω 14'32	0.61861 AU	min. Earth dist.	348 Jul 11 j 16:05	24° B 49'42	0.59825 AU
inferior conj	347 Aug 02 j 16:59	9° Ω 27'43	-4°14'10	inferior conj	348 Jul 15 j 00:04	22° B 11'31	-4°42'25
minimum elong	347 Aug 02 j 21:31	9° Ω 17'22	4°13'18	minimum elong	348 Jul 15 j 02:27	22° B 06'46	4°42'15
morning rise	347 Aug 09 j 19:29	4° Ω 28'54		morning rise	348 Jul 22 j 13:43	17° B 35'12	
direct	347 Aug 12 j 06:50	4° Ω 02'39		direct	348 Jul 25 j 01:16	17° B 12'53	
asc. node	347 Aug 18 j 07:19	6° Ω 42'26		morning max el	348 Aug 01 j 14:50	20° B 52'29	18°16'53
morning max el	347 Aug 19 j 04:10	7° Ω 30'33	17°55'54	asc. node	348 Aug 04 j 04:22	23° B 41'54	
	347 Sep 02 j 17:23	0° II			348 Aug 08 j 13:37	0° Ω	
morning set	347 Sep 04 j 03:56	2° II 36'46		morning set	348 Aug 17 j 14:11	16° Ω 15'03	
					348 Aug 24 j 21:17	0° II	
superior conj	347 Sep 14 j 19:48	21° II 37'21	1°14'07	superior conj	348 Aug 26 j 22:45	3° II 47'09	1°35'28
minimum elong	347 Sep 15 j 00:38	21° II 58'12	1°13'34	minimum elong	348 Aug 27 j 02:02	4° II 02'08	1°35'13
	347 Sep 19 j 18:09	0° B		max. Earth dist.	348 Sep 03 j 12:29	17° II 09'03	1.40825 AU
max. Earth dist.	347 Sep 22 j 04:46	4° B 02'39	1.42670 AU	evening rise	348 Sep 08 j 07:02	25° II 08'07	
desc. node	347 Sep 26 j 17:09	11° B 21'09			348 Sep 11 j 07:08	0° B	
evening rise	347 Sep 29 j 01:56	15° B 06'00		desc. node	348 Sep 12 j 14:11	2° B 03'32	
	347 Oct 08 j 19:26	0° II			348 Oct 01 j 15:15	0° II	
evening max el	347 Oct 30 j 21:51	29° II 35'09	21°52'53	evening max el	348 Oct 12 j 13:09	13° II 06'27	23°11'55
	347 Oct 31 j 07:44	0° B		retrograde	348 Oct 22 j 20:06	19° II 12'14	
retrograde	347 Nov 09 j 02:11	5° B 02'45		evening set	348 Oct 27 j 17:33	17° II 11'06	
evening set	347 Nov 13 j 10:37	3° B 19'24		asc. node	348 Oct 31 j 03:34	13° II 26'49	
asc. node	347 Nov 14 j 06:33	2° B 35'47		inferior conj	348 Nov 02 j 02:12	10° II 49'24	0°39'57
	347 Nov 16 j 14:07	30° R II		minimum elong	348 Nov 02 j 01:16	10° II 52'36	0°39'33
inferior conj	347 Nov 18 j 19:01	27° II 02'14	1°30'27	min. Earth dist.	348 Nov 01 j 18:04	11° II 17'22	0.67689 AU
minimum elong	347 Nov 18 j 17:05	27° II 08'55	1°29'42	morning rise	348 Nov 07 j 08:55	4° II 40'12	
min. Earth dist.	347 Nov 18 j 21:27	26° II 53'47	0.67629 AU	direct	348 Nov 11 j 15:18	2° II 59'29	
morning rise	347 Nov 23 j 23:23	20° II 49'54		morning max el	348 Nov 20 j 08:38	8° II 05'52	21°26'02
direct	347 Nov 28 j 20:19	18° II 46'24			348 Dec 07 j 02:48	0° B	
morning max el	347 Dec 08 j 17:43	24° II 38'25	22°49'58	desc. node	348 Dec 09 j 13:24	3° B 35'53	
	347 Dec 13 j 12:35	0° B		morning set	348 Dec 21 j 15:43	22° B 07'41	
desc. node	347 Dec 23 j 16:22	13° B 31'44			348 Dec 26 j 13:39	0° B	
	348 Jan 03 j 17:53	0° B		max. Earth dist.	348 Dec 28 j 18:41	3° B 36'56	1.42063 AU
morning set	348 Jan 12 j 00:42	13° B 15'24					
max. Earth dist.	348 Jan 16 j 17:33	21° B 10'00	1.40044 AU	superior conj	349 Jan 05 j 04:51	16° B 08'17	-2°02'09
	348 Jan 21 j 18:42	0° \approx		minimum elong	349 Jan 05 j 03:47	16° B 03'43	2°02'07
					349 Jan 13 j 00:46	0° \approx	
superior conj	348 Jan 24 j 11:51	4° \approx 54'04	-1°58'29	evening rise	349 Jan 16 j 07:14	5° \approx 56'08	
minimum elong	348 Jan 24 j 14:21	5° \approx 05'29	1°58'23	asc. node	349 Jan 27 j 02:54	24° \approx 45'55	
evening rise	348 Feb 03 j 05:44	23° \approx 11'41			349 Jan 30 j 21:20	0° H	
	348 Feb 06 j 20:15	0° H		evening max el	349 Feb 01 j 20:55	2° H 11'17	18°09'09
asc. node	348 Feb 10 j 05:54	6° H 10'03		retrograde	349 Feb 08 j 15:15	5° H 37'52	
evening max el	348 Feb 19 j 11:19	19° H 15'04	18°26'44	evening set	349 Feb 11 j 06:54	5° H 06'31	
retrograde	348 Feb 26 j 22:25	22° H 55'31		inferior conj	349 Feb 18 j 00:01	0° H 12'14	3°41'05
evening set	348 Feb 29 j 09:15	22° H 32'54		minimum elong	349 Feb 18 j 01:45	0° H 08'09	3°40'55
inferior conj	348 Mar 07 j 17:45	17° H 59'38	3°07'17		349 Feb 18 j 05:13	30° R \approx	
minimum elong	348 Mar 07 j 21:31	17° H 51'58	3°06'32	min. Earth dist.	349 Feb 21 j 05:24	27° \approx 11'50	0.60782 AU
min. Earth dist.	348 Mar 11 j 04:09	15° H 14'06	0.58679 AU	morning rise	349 Feb 24 j 18:51	24° \approx 24'30	
morning rise	348 Mar 15 j 07:12	12° H 31'37		direct	349 Mar 03 j 13:08	22° \approx 11'17	
desc. node	348 Mar 20 j 15:35	10° H 56'19		desc. node	349 Mar 07 j 12:36	22° \approx 53'58	
direct	348 Mar 21 j 09:40	10° H 54'50			349 Mar 17 j 17:59	0° H	
morning max el	348 Apr 04 j 18:00	18° H 34'28	26°52'30	morning max el	349 Mar 17 j 18:33	0° H 01'23	27°38'01

	349 Apr 08 j 07:43	0°♿		minimum elong	350 Jan 31 j 22:13	12°♿55'47	3°49'01
morning set	349 Apr 18 j 23:38	20°♿18'48		min. Earth dist.	350 Feb 03 j 15:23	10°♿03'13	0.62799 AU
	349 Apr 23 j 13:29	0°♿		morning rise	350 Feb 07 j 02:14	6°♿55'21	
max. Earth dist.	349 Apr 25 j 04:53	3°♿34'02	1.32377 AU	direct	350 Feb 14 j 02:01	4°♿15'23	
asc. node	349 Apr 25 j 02:13	3°♿19'27		desc. node	350 Feb 22 j 09:38	7°♿21'48	
				morning max el	350 Feb 28 j 00:34	12°♿08'55	27°46'34
superior conj	349 Apr 26 j 05:29	5°♿48'26	0°12'01		350 Mar 14 j 05:18	0°♿	
minimum elong	349 Apr 26 j 04:56	5°♿45'25	0°11'54		350 Mar 31 j 16:37	0°♿	
behind sun begin	349 Apr 26 j 01:35	5°♿27'03		morning set	350 Apr 03 j 00:42	4°♿38'23	
behind sun end	349 Apr 26 j 08:17	6°♿03'48		max. Earth dist.	350 Apr 08 j 12:34	16°♿04'07	1.32816 AU
evening rise	349 May 03 j 03:03	20°♿46'47					
	349 May 07 j 15:02	0°♿		superior conj	350 Apr 10 j 14:28	20°♿32'14	-0°14'24
	349 May 26 j 19:23	0°♿		minimum elong	350 Apr 10 j 15:10	20°♿35'56	0°14'14
evening max el	349 May 29 j 21:26	3°♿12'41	25°15'43	behind sun begin	350 Apr 10 j 12:50	20°♿23'21	
desc. node	349 Jun 03 j 11:54	7°♿00'34		behind sun end	350 Apr 10 j 17:29	20°♿48'31	
retrograde	349 Jun 12 j 21:59	10°♿21'35		asc. node	350 Apr 11 j 23:15	23°♿29'40	
evening set	349 Jun 18 j 10:21	9°♿10'54			350 Apr 14 j 23:16	0°♿	
min. Earth dist.	349 Jun 23 j 09:11	6°♿25'51	0.57805 AU	evening rise	350 Apr 17 j 14:51	5°♿40'04	
inferior conj	349 Jun 26 j 12:24	4°♿16'48	-4°44'26		350 Apr 30 j 14:46	0°♿	
minimum elong	349 Jun 26 j 10:30	4°♿20'05	4°44'21	evening max el	350 May 11 j 11:54	13°♿52'05	23°44'11
morning rise	349 Jul 04 j 13:21	0°♿02'46		desc. node	350 May 21 j 08:53	20°♿10'58	
	349 Jul 04 j 17:55	30°♿		retrograde	350 May 25 j 05:14	20°♿44'41	
direct	349 Jul 07 j 02:36	29°♿43'10		evening set	350 May 29 j 06:41	20°♿08'19	
	349 Jul 09 j 09:50	0°♿		min. Earth dist.	350 Jun 04 j 22:41	17°♿00'13	0.56130 AU
morning max el	349 Jul 15 j 18:19	3°♿46'39	18°58'26	inferior conj	350 Jun 07 j 04:38	15°♿38'32	-4°07'12
asc. node	349 Jul 22 j 01:25	11°♿37'03		minimum elong	350 Jun 06 j 22:15	15°♿48'16	4°05'57
morning set	349 Aug 01 j 10:38	0°♿23'20		morning rise	350 Jun 15 j 16:36	11°♿40'47	
	349 Aug 01 j 05:53	0°♿		direct	350 Jun 18 j 08:43	11°♿22'42	
				morning max el	350 Jun 28 j 11:57	16°♿04'09	20°00'58
superior conj	349 Aug 09 j 21:01	16°♿54'38	1°45'28	asc. node	350 Jul 08 j 22:29	0°♿15'26	
minimum elong	349 Aug 09 j 22:11	17°♿00'14	1°45'26		350 Jul 08 j 18:55	0°♿	
max. Earth dist.	349 Aug 16 j 15:47	29°♿30'25	1.38801 AU	morning set	350 Jul 16 j 14:12	14°♿53'43	
	349 Aug 16 j 22:22	0°♿					
evening rise	349 Aug 20 j 12:39	6°♿19'05		superior conj	350 Jul 24 j 09:19	0°♿44'48	1°46'13
desc. node	349 Aug 30 j 11:14	22°♿37'25		minimum elong	350 Jul 24 j 08:41	0°♿41'38	1°46'13
	349 Sep 04 j 07:30	0°♿			350 Jul 24 j 00:22	0°♿	
evening max el	349 Sep 25 j 01:23	26°♿40'43	24°31'23	max. Earth dist.	350 Jul 29 j 20:03	11°♿23'14	1.36863 AU
	349 Sep 28 j 18:55	0°♿		evening rise	350 Aug 02 j 17:19	18°♿36'27	
retrograde	349 Oct 06 j 10:23	3°♿19'47			350 Aug 09 j 05:50	0°♿	
evening set	349 Oct 11 j 22:01	1°♿01'14		desc. node	350 Aug 17 j 08:15	12°♿57'43	
	349 Oct 13 j 00:06	30°♿			350 Aug 29 j 11:44	0°♿	
min. Earth dist.	349 Oct 16 j 13:44	25°♿41'04	0.67424 AU	evening max el	350 Sep 07 j 12:59	10°♿18'12	25°43'59
inferior conj	349 Oct 17 j 08:17	24°♿39'01	-0°14'05	retrograde	350 Sep 19 j 20:07	17°♿20'31	
minimum elong	349 Oct 17 j 08:38	24°♿37'52	0°13'57	evening set	350 Sep 25 j 22:13	14°♿47'06	
transit middle	349 Oct 17 j 08:38	24°♿37'52	0°13'57	min. Earth dist.	350 Sep 30 j 06:03	10°♿02'30	0.66830 AU
transit begin	349 Oct 17 j 07:13	24°♿42'35		inferior conj	350 Oct 01 j 11:31	8°♿28'37	-1°10'14
transit end	349 Oct 17 j 10:02	24°♿33'10		minimum elong	350 Oct 01 j 13:18	8°♿22'54	1°09'29
asc. node	349 Oct 18 j 00:35	23°♿44'45		asc. node	350 Oct 04 j 21:38	4°♿26'59	
morning rise	349 Oct 22 j 19:18	18°♿35'25		morning rise	350 Oct 07 j 04:38	2°♿33'25	
direct	349 Oct 26 j 12:45	17°♿15'41		direct	350 Oct 10 j 11:13	1°♿31'31	
morning max el	349 Nov 03 j 06:53	21°♿43'31	20°12'25	morning max el	350 Oct 17 j 12:34	5°♿30'08	19°12'45
	349 Nov 10 j 03:11	0°♿			350 Nov 03 j 23:54	0°♿	
desc. node	349 Nov 26 j 10:28	23°♿57'23		morning set	350 Nov 09 j 16:24	8°♿50'56	
	349 Nov 30 j 08:46	0°♿		desc. node	350 Nov 13 j 07:31	14°♿30'53	
morning set	349 Nov 30 j 12:52	0°♿15'50			350 Nov 23 j 04:34	0°♿	
max. Earth dist.	349 Dec 11 j 03:08	16°♿55'24	1.43693 AU	max. Earth dist.	350 Nov 23 j 17:59	0°♿52'54	1.44733 AU
superior conj	349 Dec 16 j 19:59	26°♿10'18	-1°50'04	superior conj	350 Nov 26 j 09:45	5°♿05'03	-1°19'29
minimum elong	349 Dec 16 j 13:57	25°♿45'31	1°49'41	minimum elong	350 Nov 26 j 01:22	4°♿31'49	1°18'37
	349 Dec 19 j 03:36	0°♿		evening rise	350 Dec 11 j 02:52	28°♿52'20	
evening rise	349 Dec 29 j 15:42	17°♿52'16			350 Dec 11 j 19:18	0°♿	
	350 Jan 05 j 16:35	0°♿		evening max el	350 Dec 30 j 21:22	28°♿46'13	18°31'26
asc. node	350 Jan 13 j 23:54	12°♿40'58		asc. node	350 Dec 31 j 20:56	29°♿42'54	
evening max el	350 Jan 16 j 09:11	15°♿23'59	18°11'00		351 Jan 01 j 04:41	0°♿	
retrograde	350 Jan 22 j 21:00	18°♿50'22		retrograde	351 Jan 06 j 11:17	2°♿24'04	
evening set	350 Jan 25 j 17:14	18°♿09'16		evening set	351 Jan 09 j 12:41	1°♿32'04	
inferior conj	350 Jan 31 j 22:36	12°♿54'47	3°49'02		351 Jan 11 j 15:10	30°♿	

inferior conj	351 Jan 15 j 09:29	25°♄58'57	3°38'10	asc. node	351 Dec 18 j 17:59	15°♄37'51	
minimum elong	351 Jan 15 j 07:37	26°♄04'27	3°37'56	retrograde	351 Dec 21 j 06:42	16°♄12'57	
min. Earth dist.	351 Jan 17 j 10:56	23°♄33'50	0.64539 AU	evening set	351 Dec 24 j 14:26	15°♄08'44	
morning rise	351 Jan 21 j 02:03	19°♄52'34		inferior conj	351 Dec 30 j 05:14	9°♄19'11	3°13'47
direct	351 Jan 27 j 22:18	17°♄00'50		minimum elong	351 Dec 30 j 02:37	9°♄27'31	3°13'13
desc. node	351 Feb 09 j 06:41	23°♄43'17		min. Earth dist.	351 Dec 31 j 15:35	7°♄30'15	0.65898 AU
morning max el	351 Feb 10 j 09:32	24°♄48'47	27°19'38	morning rise	352 Jan 04 j 14:33	3°♄08'32	
	351 Feb 15 j 03:05	0°♄		direct	352 Jan 11 j 00:51	0°♄19'22	
	351 Mar 07 j 15:23	0°♄		morning max el	352 Jan 23 j 19:10	7°♄50'29	26°23'30
morning set	351 Mar 17 j 17:19	18°♄28'01		desc. node	352 Jan 27 j 03:44	11°♄26'48	
max. Earth dist.	351 Mar 22 j 11:58	28°♄03'55	1.33683 AU		352 Feb 10 j 02:25	0°♄	
	351 Mar 23 j 10:24	0°♄			352 Feb 28 j 01:03	0°♄	
				morning set	352 Feb 28 j 21:48	1°♄36'58	
superior conj	351 Mar 25 j 19:18	4°♄58'26	-0°41'29	max. Earth dist.	352 Mar 04 j 00:17	9°♄30'17	1.35009 AU
minimum elong	351 Mar 25 j 21:19	5°♄09'05	0°41'04				
asc. node	351 Mar 29 j 20:17	13°♄34'37		superior conj	352 Mar 08 j 17:44	19°♄00'33	-1°07'57
evening rise	351 Apr 02 j 01:52	20°♄25'36		minimum elong	352 Mar 08 j 20:57	19°♄17'02	1°07'25
	351 Apr 06 j 19:02	0°♄			352 Mar 14 j 00:51	0°♄	
evening max el	351 Apr 23 j 04:53	24°♄27'46	22°09'13	asc. node	352 Mar 15 j 17:20	3°♄30'18	
	351 May 01 j 14:27	0°♄		evening rise	352 Mar 16 j 10:15	4°♄57'44	
retrograde	351 May 05 j 23:50	0°♄44'41			352 Mar 30 j 13:17	0°♄	
desc. node	351 May 08 j 05:54	0°♄33'24		evening max el	352 Apr 04 j 06:36	5°♄27'10	20°43'36
evening set	351 May 08 j 18:47	0°♄27'29		retrograde	352 Apr 15 j 12:43	10°♄53'37	
	351 May 10 j 13:03	30°♄		evening set	352 Apr 17 j 16:45	10°♄42'19	
min. Earth dist.	351 May 17 j 11:08	26°♄44'41	0.55137 AU	desc. node	352 Apr 24 j 02:56	8°♄18'26	
inferior conj	351 May 18 j 04:16	26°♄20'34	-2°43'55	inferior conj	352 Apr 26 j 22:23	6°♄44'38	-0°48'31
minimum elong	351 May 17 j 21:22	26°♄30'17	2°41'48	minimum elong	352 Apr 26 j 20:05	6°♄47'55	0°47'42
morning rise	351 May 27 j 01:31	22°♄26'18		min. Earth dist.	352 Apr 28 j 00:01	6°♄07'56	0.55059 AU
direct	351 May 29 j 23:35	22°♄07'09		morning rise	352 May 05 j 22:43	2°♄35'23	
morning max el	351 Jun 10 j 18:16	27°♄37'55	21°23'21	direct	352 May 09 j 10:05	2°♄09'22	
	351 Jun 13 j 02:15	0°♄		morning max el	352 May 22 j 14:39	8°♄31'28	23°00'23
asc. node	351 Jun 25 j 19:33	19°♄26'05			352 Jun 07 j 00:11	0°♄	
morning set	351 Jun 30 j 22:29	29°♄39'26		asc. node	352 Jun 11 j 16:37	9°♄00'31	
	351 Jul 01 j 02:27	0°♄		morning set	352 Jun 14 j 09:27	14°♄34'18	
superior conj	351 Jul 08 j 07:30	15°♄05'19	1°39'41	superior conj	352 Jun 21 j 12:21	29°♄46'15	1°27'23
minimum elong	351 Jul 08 j 05:40	14°♄55'50	1°39'33	minimum elong	352 Jun 21 j 09:57	29°♄33'25	1°27'05
max. Earth dist.	351 Jul 12 j 07:30	23°♄15'36	1.35193 AU		352 Jun 21 j 14:56	0°♄	
	351 Jul 15 j 17:48	0°♄		max. Earth dist.	352 Jun 24 j 04:26	5°♄25'10	1.33890 AU
evening rise	351 Jul 16 j 16:21	1°♄47'59		evening rise	352 Jun 29 j 05:02	15°♄40'08	
	351 Aug 02 j 05:25	0°♄			352 Jul 06 j 20:26	0°♄	
desc. node	351 Aug 04 j 05:16	2°♄58'15		desc. node	352 Jul 21 j 02:17	22°♄30'01	
evening max el	351 Aug 21 j 01:05	23°♄54'10	26°41'50		352 Jul 26 j 20:29	0°♄	
	351 Aug 29 j 07:20	0°♄		evening max el	352 Aug 02 j 12:51	7°♄17'32	27°17'24
retrograde	351 Sep 03 j 00:38	1°♄08'47		retrograde	352 Aug 15 j 23:27	14°♄36'29	
	351 Sep 07 j 08:59	30°♄		evening set	352 Aug 23 j 00:55	11°♄51'52	
evening set	351 Sep 09 j 16:04	28°♄25'33		min. Earth dist.	352 Aug 26 j 18:52	8°♄20'47	0.64598 AU
min. Earth dist.	351 Sep 13 j 16:33	24°♄18'04	0.65895 AU	inferior conj	352 Aug 29 j 01:16	5°♄52'58	-3°01'15
inferior conj	351 Sep 15 j 09:57	22°♄14'59	-2°06'43	minimum elong	352 Aug 29 j 05:42	5°♄40'54	2°59'47
minimum elong	351 Sep 15 j 13:12	22°♄05'21	2°05'28	morning rise	352 Sep 04 j 11:18	0°♄24'25	
morning rise	351 Sep 21 j 10:48	16°♄31'25			352 Sep 05 j 14:09	30°♄	
asc. node	351 Sep 21 j 18:44	16°♄21'18		direct	352 Sep 07 j 03:15	29°♄47'28	
direct	351 Sep 24 j 08:53	15°♄43'43		asc. node	352 Sep 07 j 15:49	29°♄48'55	
morning max el	351 Oct 01 j 00:13	19°♄22'37	18°28'57		352 Sep 08 j 16:22	0°♄	
	351 Oct 09 j 02:08	0°♄		morning max el	352 Sep 13 j 15:21	3°♄15'23	18°02'01
morning set	351 Oct 20 j 21:14	18°♄44'40		morning set	352 Oct 01 j 06:30	0°♄01'25	
	351 Oct 27 j 21:50	0°♄			352 Oct 01 j 06:10	0°♄	
desc. node	351 Oct 31 j 04:33	5°♄12'27					
				superior conj	352 Oct 14 j 20:01	22°♄23'50	0°14'47
superior conj	351 Nov 05 j 10:31	13°♄29'20	-0°34'08	minimum elong	352 Oct 14 j 21:46	22°♄30'52	0°14'32
minimum elong	351 Nov 05 j 06:03	13°♄11'45	0°33'32	behind sun begin	352 Oct 14 j 17:04	22°♄11'59	
max. Earth dist.	351 Nov 06 j 12:44	15°♄12'25	1.45060 AU	behind sun end	352 Oct 15 j 02:28	22°♄49'43	
	351 Nov 15 j 22:44	0°♄		desc. node	352 Oct 17 j 01:35	25°♄58'14	
evening rise	351 Nov 21 j 14:24	8°♄54'37		max. Earth dist.	352 Oct 19 j 07:34	29°♄32'43	1.44645 AU
greatest brilliancy	351 Dec 01 j 05:25	24°♄04'40	-0.8m		352 Oct 19 j 14:27	0°♄	
	351 Dec 05 j 01:57	0°♄		evening rise	352 Oct 31 j 05:29	18°♄08'36	
evening max el	351 Dec 14 j 07:03	12°♄13'28	19°09'20		352 Nov 07 j 23:02	0°♄	

greatest brilliancy	352 Nov 14 j 04:41	9°♊22'45	-0.6m		353 Nov 01 j 21:36	0°♊	
evening max el	352 Nov 26 j 12:12	25°♊41'40	20°03'01	evening max el	353 Nov 09 j 11:41	9°♊10'14	21°09'52
	352 Dec 02 j 17:34	0°♊		retrograde	353 Nov 18 j 01:48	14°♊16'16	
retrograde	352 Dec 04 j 04:17	0°♊11'26		asc. node	353 Nov 21 j 12:06	13°♊10'08	
asc. node	352 Dec 04 j 15:03	0°♊10'17		evening set	353 Nov 22 j 03:29	12°♊42'43	
	352 Dec 05 j 14:08	30°♋♊		inferior conj	353 Nov 27 j 12:21	6°♊29'32	1°57'23
evening set	352 Dec 07 j 20:02	28°♊53'24		minimum elong	353 Nov 27 j 10:00	6°♊37'37	1°56'32
inferior conj	352 Dec 13 j 06:59	22°♊50'20	2°39'23	min. Earth dist.	353 Nov 27 j 21:09	5°♊59'14	0.67447 AU
minimum elong	352 Dec 13 j 04:14	22°♊59'31	2°38'34	morning rise	353 Dec 02 j 16:21	0°♊16'07	
min. Earth dist.	352 Dec 14 j 03:44	21°♊40'53	0.66858 AU		353 Dec 02 j 23:53	30°♋♌	
morning rise	352 Dec 18 j 12:15	16°♊37'20		direct	353 Dec 07 j 21:54	27°♌59'53	
direct	352 Dec 24 j 08:52	14°♊01'25			353 Dec 13 j 10:55	0°♊	
morning max el	353 Jan 05 j 04:00	21°♊02'45	25°07'06	morning max el	353 Dec 18 j 12:42	4°♊19'35	23°40'25
	353 Jan 12 j 22:18	0°♊		desc. node	353 Dec 30 j 21:49	19°♊29'54	
desc. node	353 Jan 13 j 00:47	0°♊07'52			354 Jan 07 j 05:41	0°♊	
	353 Feb 02 j 07:38	0°♋		morning set	354 Jan 22 j 21:15	24°♊53'21	
morning set	353 Feb 10 j 09:11	13°♋51'06			354 Jan 25 j 20:26	0°♋	
max. Earth dist.	353 Feb 14 j 01:38	20°♋34'52	1.36758 AU	max. Earth dist.	354 Jan 26 j 20:43	1°♋46'29	1.38812 AU
	353 Feb 19 j 00:10	0°♋					
				superior conj	354 Feb 03 j 06:42	15°♋17'11	-1°51'07
superior conj	353 Feb 20 j 06:49	2°♋30'17	-1°32'01	minimum elong	354 Feb 03 j 10:14	15°♋33'46	1°50'50
minimum elong	353 Feb 20 j 10:44	2°♋49'36	1°31'31		354 Feb 10 j 22:11	0°♋	
evening rise	353 Feb 28 j 13:49	19°♋09'48		evening rise	354 Feb 12 j 09:53	2°♋53'58	
asc. node	353 Mar 02 j 14:23	23°♋12'08		asc. node	354 Feb 17 j 11:25	12°♋34'01	
	353 Mar 06 j 03:11	0°♌		evening max el	354 Feb 28 j 19:05	29°♋19'03	18°45'51
evening max el	353 Mar 17 j 19:42	17°♌04'34	19°34'55		354 Mar 01 j 12:49	0°♌	
retrograde	353 Mar 27 j 08:48	21°♌39'57		retrograde	354 Mar 08 j 21:17	3°♌14'45	
evening set	353 Mar 29 j 11:38	21°♌27'23		evening set	354 Mar 11 j 04:54	2°♌56'40	
inferior conj	353 Apr 07 j 01:40	17°♌22'51	1°06'08		354 Mar 17 j 00:56	30°♋♌	
minimum elong	353 Apr 07 j 04:22	17°♌18'33	1°05'14	inferior conj	354 Mar 18 j 23:49	28°♌35'33	2°33'14
min. Earth dist.	353 Apr 09 j 14:27	15°♌46'22	0.55920 AU	minimum elong	354 Mar 19 j 04:06	28°♌27'35	2°32'07
desc. node	353 Apr 10 j 23:58	14°♌55'58		min. Earth dist.	354 Mar 22 j 07:25	26°♌09'15	0.57535 AU
morning rise	353 Apr 15 j 18:29	12°♌42'44		morning rise	354 Mar 27 j 00:17	23°♌22'38	
direct	353 Apr 20 j 04:39	11°♌58'46		desc. node	354 Mar 28 j 21:00	22°♌40'45	
morning max el	353 May 04 j 05:51	19°♌03'09	24°41'23	direct	354 Apr 01 j 13:21	22°♌07'11	
	353 May 13 j 09:43	0°♌		morning max el	354 Apr 15 j 21:37	29°♌38'33	26°11'26
morning set	353 May 29 j 21:26	29°♌33'00			354 Apr 16 j 06:23	0°♌	
asc. node	353 May 29 j 13:40	28°♌52'11			354 May 07 j 01:49	0°♌	
	353 May 30 j 02:33	0°♌		morning set	354 May 14 j 08:42	14°♌28'43	
				asc. node	354 May 16 j 10:42	18°♌54'45	
superior conj	353 Jun 05 j 21:29	14°♌40'01	1°10'30				
minimum elong	353 Jun 05 j 19:03	14°♌26'50	1°10'06	superior conj	354 May 21 j 08:45	29°♌38'35	0°49'57
max. Earth dist.	353 Jun 07 j 09:44	17°♌56'26	1.32979 AU	minimum elong	354 May 21 j 06:46	29°♌27'42	0°49'34
evening rise	353 Jun 13 j 03:30	0°♍01'43			354 May 21 j 12:40	0°♌	
	353 Jun 13 j 03:10	0°♍		max. Earth dist.	354 May 21 j 20:26	0°♌42'39	1.32454 AU
	353 Jun 29 j 21:28	0°♌		evening rise	354 May 28 j 08:35	14°♌42'01	
desc. node	353 Jul 07 j 23:19	11°♌20'58			354 Jun 05 j 03:36	0°♍	
evening max el	353 Jul 15 j 22:30	20°♌16'02	27°24'22	desc. node	354 Jun 24 j 20:20	29°♍12'59	
retrograde	353 Jul 29 j 16:19	27°♌34'47			354 Jun 25 j 13:36	0°♌	
evening set	353 Aug 05 j 21:24	25°♌00'45		evening max el	354 Jun 28 j 03:34	2°♌36'51	26°58'49
min. Earth dist.	353 Aug 09 j 11:23	22°♌00'39	0.62945 AU	retrograde	354 Jul 12 j 02:08	9°♌53'07	
inferior conj	353 Aug 12 j 06:41	19°♌16'35	-3°50'21	evening set	354 Jul 19 j 01:12	7°♌43'51	
minimum elong	353 Aug 12 j 11:34	19°♌04'39	3°49'09	min. Earth dist.	354 Jul 22 j 17:40	5°♌02'53	0.61003 AU
morning rise	353 Aug 19 j 03:00	14°♌06'20		inferior conj	354 Jul 25 j 22:53	2°♌17'04	-4°28'37
direct	353 Aug 21 j 15:15	13°♌37'01		minimum elong	354 Jul 26 j 02:47	2°♌08'39	4°28'04
asc. node	353 Aug 25 j 12:53	14°♌49'12			354 Jul 28 j 17:38	30°♋♍	
morning max el	353 Aug 28 j 07:09	17°♌02'29	17°52'49	morning rise	354 Aug 02 j 06:08	27°♍27'46	
	353 Sep 06 j 12:16	0°♎		direct	354 Aug 04 j 17:09	27°♍03'34	
morning set	353 Sep 13 j 15:25	12°♎26'06			354 Aug 11 j 05:17	0°♌	
	353 Sep 23 j 17:56	0°♎		morning max el	354 Aug 11 j 20:31	0°♌35'27	18°02'25
				asc. node	354 Aug 12 j 09:54	1°♌09'00	
superior conj	353 Sep 25 j 06:07	2°♎32'29	0°55'58	morning set	354 Aug 27 j 17:52	25°♌41'00	
minimum elong	353 Sep 25 j 10:54	2°♎52'31	0°55'22		354 Aug 30 j 01:49	0°♎	
max. Earth dist.	353 Oct 01 j 23:07	13°♎34'43	1.43551 AU				
desc. node	353 Oct 03 j 22:37	16°♎45'25		superior conj	354 Sep 06 j 19:14	14°♎00'38	1°24'40
evening rise	353 Oct 10 j 12:38	27°♎06'43		minimum elong	354 Sep 06 j 23:34	14°♎19'48	1°24'15
	353 Oct 12 j 09:32	0°♎		max. Earth dist.	354 Sep 14 j 09:19	27°♎02'19	1.41919 AU

	354 Sep 16 j 04:15	0°♄			355 Sep 08 j 20:55	0°♄	
evening rise	354 Sep 20 j 05:43	6°♄34'51			355 Sep 30 j 05:17	0°♄	
desc. node	354 Sep 20 j 19:40	7°♄30'28		evening max el	355 Oct 05 j 19:29	6°♄13'05	23°46'15
	354 Oct 05 j 15:32	0°♄		retrograde	355 Oct 16 j 13:47	12°♄33'32	
evening max el	354 Oct 23 j 05:38	22°♄40'18	22°26'05	evening set	355 Oct 21 j 17:08	10°♄25'05	
retrograde	354 Nov 01 j 21:25	28°♄24'50		asc. node	355 Oct 26 j 06:09	5°♄11'29	
evening set	354 Nov 06 j 11:05	26°♄34'13		min. Earth dist.	355 Oct 26 j 13:51	4°♄45'22	0.67614 AU
asc. node	354 Nov 08 j 09:07	24°♄41'25		inferior conj	355 Oct 27 j 02:19	4°♄02'55	0°17'23
inferior conj	354 Nov 11 j 19:24	20°♄14'38	1°09'35	minimum elong	355 Oct 27 j 01:54	4°♄04'20	0°17'12
minimum elong	354 Nov 11 j 17:52	20°♄19'59	1°08'57		355 Oct 30 j 06:24	30°♄♂	
min. Earth dist.	354 Nov 11 j 17:22	20°♄21'43	0.67692 AU	morning rise	355 Nov 01 j 10:37	27°♄55'43	
morning rise	354 Nov 17 j 00:30	14°♄03'04		direct	355 Nov 05 j 11:23	26°♄24'00	
direct	354 Nov 21 j 15:06	12°♄09'11			355 Nov 12 j 11:45	0°♄	
morning max el	354 Dec 01 j 00:13	17°♄41'43	22°13'15	morning max el	355 Nov 13 j 17:55	1°♄12'37	20°53'13
	354 Dec 11 j 03:10	0°♄♂		desc. node	355 Dec 04 j 15:54	29°♄33'39	
desc. node	354 Dec 17 j 18:52	9°♄♂21'25			355 Dec 04 j 22:54	0°♄♂	
	354 Dec 31 j 08:51	0°♄♂		morning set	355 Dec 13 j 09:39	12°♄♂57'22	
morning set	355 Jan 03 j 04:37	4°♄♂31'32		max. Earth dist.	355 Dec 21 j 22:03	26°♄♂30'42	1.42824 AU
max. Earth dist.	355 Jan 08 j 17:37	13°♄♂39'53	1.40933 AU		355 Dec 24 j 01:16	0°♄♂	
superior conj	355 Jan 16 j 12:38	27°♄♂09'43	-2°01'41	superior conj	355 Dec 28 j 19:07	7°♄♂54'25	-1°59'12
minimum elong	355 Jan 16 j 13:54	27°♄♂15'23	2°01'39	minimum elong	355 Dec 28 j 15:58	7°♄♂41'07	1°59'05
	355 Jan 18 j 02:37	0°♄♂		evening rise	356 Jan 09 j 14:02	28°♄♂27'33	
evening rise	355 Jan 26 j 19:16	16°♄♂02'48			356 Jan 10 j 10:46	0°♄♂	
	355 Feb 03 j 11:18	0°♄♂		asc. node	356 Jan 22 j 05:28	19°♄♂49'11	
asc. node	355 Feb 04 j 08:27	1°♄♂29'21		evening max el	356 Jan 26 j 13:08	25°♄♂07'45	18°07'34
evening max el	355 Feb 12 j 01:58	12°♄♂03'23	18°16'52	retrograde	356 Feb 02 j 03:18	28°♄♂32'21	
retrograde	355 Feb 19 j 04:27	15°♄♂35'42		evening set	356 Feb 04 j 21:02	27°♄♂56'48	
evening set	355 Feb 21 j 17:28	15°♄♂09'30		inferior conj	356 Feb 11 j 08:43	22°♄♂53'37	3°47'05
inferior conj	355 Feb 28 j 19:01	10°♄♂27'37	3°25'15	minimum elong	356 Feb 11 j 09:30	22°♄♂51'39	3°47'04
minimum elong	355 Feb 28 j 22:01	10°♄♂21'07	3°24'47	min. Earth dist.	356 Feb 14 j 09:17	19°♄♂54'39	0.61676 AU
min. Earth dist.	355 Mar 04 j 04:47	7°♄♂32'29	0.59572 AU	morning rise	356 Feb 17 j 20:39	17°♄♂00'27	
morning rise	355 Mar 08 j 00:17	4°♄♂50'13		direct	356 Feb 24 j 18:37	14°♄♂34'23	
direct	355 Mar 14 j 11:00	2°♄♂56'57		desc. node	356 Mar 01 j 15:03	16°♄♂06'53	
desc. node	355 Mar 15 j 18:01	3°♄♂01'24		morning max el	356 Mar 09 j 21:12	22°♄♂25'45	27°46'08
morning max el	355 Mar 28 j 18:16	10°♄♂42'02	27°16'05		356 Mar 16 j 13:54	0°♄♂	
	355 Apr 12 j 17:29	0°♄♂			356 Apr 04 j 20:03	0°♄♂	
morning set	355 Apr 28 j 17:34	29°♄♂15'41		morning set	356 Apr 11 j 22:09	13°♄♂47'11	
	355 Apr 29 j 02:04	0°♄♂		max. Earth dist.	356 Apr 17 j 19:51	26°♄♂15'28	1.32522 AU
asc. node	355 May 03 j 07:44	9°♄♂03'38					
superior conj	355 May 05 j 20:28	14°♄♂36'01	0°26'31	superior conj	356 Apr 19 j 06:57	29°♄♂26'10	0°00'58
minimum elong	355 May 05 j 19:19	14°♄♂29'38	0°26'17	minimum elong	356 Apr 19 j 06:54	29°♄♂25'55	0°00'58
max. Earth dist.	355 May 05 j 09:04	13°♄♂33'22	1.32304 AU	behind sun begin	356 Apr 19 j 01:49	28°♄♂58'09	
evening rise	355 May 12 j 17:52	29°♄♂33'02		behind sun end	356 Apr 19 j 12:00	29°♄♂53'43	
	355 May 12 j 22:59	0°♄♂		asc. node	356 Apr 19 j 04:47	29°♄♂14'20	
	355 May 29 j 12:49	0°♄♂			356 Apr 19 j 13:09	0°♄♂	
evening max el	355 Jun 10 j 02:11	14°♄♂12'50	26°01'04	evening rise	356 Apr 26 j 05:18	14°♄♂27'22	
desc. node	355 Jun 11 j 17:20	15°♄♂41'52			356 May 04 j 00:49	0°♄♂	
retrograde	355 Jun 24 j 03:06	21°♄♂24'51		evening max el	356 May 21 j 18:31	25°♄♂07'29	24°38'07
evening set	355 Jun 30 j 07:45	19°♄♂51'54			356 May 28 j 03:00	0°♄♂	
min. Earth dist.	355 Jul 04 j 14:53	17°♄♂13'15	0.58944 AU	desc. node	356 May 28 j 14:19	0°♄♂15'27	
inferior conj	355 Jul 07 j 22:20	14°♄♂45'12	-4°47'19	retrograde	356 Jun 04 j 17:01	2°♄♂10'34	
minimum elong	355 Jul 07 j 23:07	14°♄♂43'44	4°47'18	evening set	356 Jun 09 j 15:11	1°♄♂15'53	
morning rise	355 Jul 15 j 16:45	10°♄♂18'17			356 Jun 12 j 11:02	30°♄♂♂	
direct	355 Jul 18 j 04:49	9°♄♂57'15		min. Earth dist.	356 Jun 15 j 05:50	28°♄♂22'43	0.57032 AU
morning max el	355 Jul 26 j 04:23	13°♄♂45'50	18°31'58	inferior conj	356 Jun 18 j 02:07	26°♄♂32'18	-4°34'10
asc. node	355 Jul 30 j 06:57	18°♄♂33'18		minimum elong	356 Jun 17 j 22:06	26°♄♂38'50	4°33'42
	355 Aug 06 j 07:38	0°♄♂		morning rise	356 Jun 26 j 07:46	22°♄♂26'09	
morning set	355 Aug 11 j 08:52	9°♄♂32'40		direct	356 Jun 28 j 22:20	22°♄♂07'13	
				morning max el	356 Jul 08 j 03:53	26°♄♂24'56	19°22'32
					356 Jul 11 j 10:46	0°♄♂	
superior conj	355 Aug 20 j 06:59	26°♄♂35'53	1°40'59	asc. node	356 Jul 16 j 04:00	6°♄♂48'13	
minimum elong	355 Aug 20 j 09:22	26°♄♂47'00	1°40'51	morning set	356 Jul 25 j 08:43	23°♄♂51'36	
	355 Aug 22 j 03:08	0°♄♂			356 Jul 28 j 10:16	0°♄♂	
max. Earth dist.	355 Aug 27 j 14:37	9°♄♂47'59	1.39969 AU				
evening rise	355 Aug 31 j 20:59	17°♄♂05'10		superior conj	356 Aug 02 j 11:49	10°♄♂03'14	1°46'48
desc. node	355 Sep 07 j 16:41	28°♄♂09'28		minimum elong	356 Aug 02 j 12:09	10°♄♂04'54	1°46'48






























































































































max. Earth dist.	356 Aug 08 j 18:09	21°♎56'45	1.37952 AU	max. Earth dist.	357 Jul 22 j 00:56	3°♏46'13	1.36104 AU
evening rise	356 Aug 12 j 12:55	28°♎45'30		evening rise	357 Jul 26 j 01:59	11°♏27'08	
	356 Aug 13 j 05:52	0°♎			357 Aug 05 j 18:35	0°♎	
desc. node	356 Aug 24 j 13:42	18°♎38'21		desc. node	357 Aug 11 j 10:43	8°♎51'01	
	356 Sep 01 j 05:51	0°♏			357 Aug 27 j 11:30	0°♏	
evening max el	356 Sep 17 j 07:21	19°♏49'26	25°03'37	evening max el	357 Aug 30 j 18:54	3°♏26'07	26°10'48
retrograde	356 Sep 29 j 02:04	26°♏39'03		retrograde	357 Sep 12 j 09:39	10°♏35'16	
evening set	356 Oct 04 j 20:01	24°♏13'38		evening set	357 Sep 18 j 17:48	7°♏56'29	
min. Earth dist.	356 Oct 09 j 08:18	19°♏08'37	0.67214 AU	min. Earth dist.	357 Sep 22 j 22:19	3°♏27'52	0.66474 AU
inferior conj	356 Oct 10 j 07:25	17°♏52'45	-0°37'44	inferior conj	357 Sep 24 j 08:51	1°♏40'51	-1°34'17
minimum elong	356 Oct 10 j 08:22	17°♏49'39	0°37'20	minimum elong	357 Sep 24 j 11:16	1°♏33'21	1°33'18
asc. node	356 Oct 12 j 03:11	15°♏32'45			357 Sep 25 j 17:55	30°♎	
morning rise	356 Oct 15 j 20:50	11°♏52'35		asc. node	357 Sep 29 j 00:16	26°♎40'36	
direct	356 Oct 19 j 09:28	10°♏40'47		morning rise	357 Sep 30 j 05:05	25°♎50'29	
morning max el	356 Oct 26 j 19:29	14°♏54'32	19°45'18	direct	357 Oct 03 j 07:43	24°♎55'13	
	356 Nov 07 j 08:34	0°♎		morning max el	357 Oct 10 j 04:03	28°♎44'17	18°52'11
desc. node	356 Nov 20 j 12:58	20°♎00'55			357 Oct 11 j 08:27	0°♏	
morning set	356 Nov 21 j 06:28	21°♎08'31		morning set	357 Oct 31 j 19:21	0°♎13'17	
	356 Nov 26 j 23:14	0°♎			357 Oct 31 j 15:59	0°♎	
max. Earth dist.	356 Dec 03 j 10:10	10°♎10'17	1.44222 AU	desc. node	357 Nov 07 j 10:02	10°♎38'07	
				max. Earth dist.	357 Nov 16 j 02:56	24°♎18'40	1.44957 AU
superior conj	356 Dec 07 j 22:51	17°♎25'29	-1°39'21	superior conj	357 Nov 17 j 04:42	26°♎00'04	-1°01'31
minimum elong	356 Dec 07 j 15:09	16°♎54'28	1°38'43	minimum elong	357 Nov 16 j 21:16	25°♎30'48	1°00'37
	356 Dec 15 j 14:59	0°♎			357 Nov 19 j 17:34	0°♎	
evening rise	356 Dec 21 j 13:58	10°♎00'54		evening rise	357 Dec 02 j 15:11	20°♎36'11	
	357 Jan 02 j 15:19	0°♎			357 Dec 08 j 10:33	0°♎	
asc. node	357 Jan 08 j 02:30	7°♎23'13		evening max el	357 Dec 23 j 12:59	21°♎49'31	18°45'29
evening max el	357 Jan 09 j 01:40	8°♎25'00	18°17'22	asc. node	357 Dec 25 j 23:32	23°♎58'31	
retrograde	357 Jan 15 j 13:20	11°♎55'01		retrograde	357 Dec 30 j 06:21	25°♎35'54	
evening set	357 Jan 18 j 11:41	11°♎09'20		evening set	358 Jan 02 j 10:10	24°♎39'00	
inferior conj	357 Jan 24 j 13:01	5°♎46'20	3°46'19	inferior conj	358 Jan 08 j 04:07	18°♎58'28	3°29'16
minimum elong	357 Jan 24 j 11:56	5°♎49'23	3°46'15	minimum elong	358 Jan 08 j 01:51	19°♎05'24	3°28'54
min. Earth dist.	357 Jan 26 j 23:14	3°♎04'39	0.63586 AU	min. Earth dist.	358 Jan 09 j 23:00	16°♎47'51	0.65158 AU
morning rise	357 Jan 30 j 11:28	29°♎43'24		morning rise	358 Jan 13 j 17:08	12°♎49'43	
	357 Jan 30 j 03:19	30°♎		direct	358 Jan 20 j 09:37	9°♎57'29	
direct	357 Feb 06 j 10:34	26°♎56'58		morning max el	358 Feb 02 j 14:48	17°♎40'40	26°58'55
	357 Feb 14 j 13:36	0°♎		desc. node	358 Feb 03 j 09:11	18°♎27'31	
desc. node	357 Feb 16 j 12:06	1°♎27'25			358 Feb 12 j 23:22	0°♎	
morning max el	357 Feb 20 j 05:01	4°♎48'52	27°39'10		358 Mar 04 j 03:00	0°♎	
	357 Mar 11 j 05:44	0°♎		morning set	358 Mar 10 j 08:08	11°♎30'07	
morning set	357 Mar 26 j 20:02	27°♎55'11		max. Earth dist.	358 Mar 14 j 19:50	20°♎21'34	1.34189 AU
	357 Mar 27 j 20:57	0°♎					
max. Earth dist.	357 Apr 01 j 00:44	8°♎34'56	1.33138 AU	superior conj	358 Mar 18 j 16:55	28°♎20'30	-0°52'52
				minimum elong	358 Mar 18 j 19:29	28°♎33'52	0°52'23
superior conj	357 Apr 03 j 14:26	14°♎03'03	-0°25'52		358 Mar 19 j 11:56	0°♎	
minimum elong	357 Apr 03 j 15:41	14°♎09'45	0°25'36	asc. node	358 Mar 23 j 22:53	9°♎24'32	
asc. node	357 Apr 06 j 01:49	19°♎22'38		evening rise	358 Mar 26 j 03:15	13°♎59'22	
evening rise	357 Apr 10 j 17:03	29°♎18'10			358 Apr 03 j 08:18	0°♎	
	357 Apr 11 j 00:59	0°♎		evening max el	358 Apr 15 j 05:05	16°♎24'11	21°31'02
	357 Apr 28 j 07:42	0°♎		retrograde	358 Apr 27 j 10:09	22°♎21'22	
evening max el	357 May 03 j 09:00	5°♎40'39	23°03'11	evening set	358 Apr 29 j 20:20	22°♎08'00	
desc. node	357 May 15 j 11:20	12°♎17'05		desc. node	358 May 02 j 08:21	21°♎28'18	
retrograde	357 May 16 j 18:39	12°♎20'57		inferior conj	358 May 09 j 06:04	18°♎06'50	-1°57'14
evening set	357 May 20 j 05:56	11°♎54'31		minimum elong	358 May 09 j 00:42	18°♎14'23	1°55'24
min. Earth dist.	357 May 27 j 18:19	8°♎33'19	0.55605 AU	min. Earth dist.	358 May 09 j 07:10	18°♎05'18	0.54983 AU
inferior conj	357 May 29 j 10:22	7°♎35'09	-3°37'12	morning rise	358 May 18 j 05:43	14°♎08'24	
minimum elong	357 May 29 j 03:04	7°♎45'48	3°35'25	direct	358 May 21 j 07:55	13°♎47'30	
morning rise	357 Jun 07 j 02:46	3°♎41'22		morning max el	358 Jun 02 j 18:46	19°♎40'58	22°03'18
direct	357 Jun 09 j 20:51	3°♎23'20			358 Jun 11 j 06:21	0°♎	
morning max el	357 Jun 20 j 16:47	8°♎24'11	20°33'56	asc. node	358 Jun 19 j 22:10	15°♎02'59	
asc. node	357 Jul 03 j 01:04	25°♎41'13		morning set	358 Jun 24 j 00:14	23°♎19'35	
	357 Jul 05 j 08:23	0°♎			358 Jun 27 j 04:17	0°♎	
morning set	357 Jul 09 j 14:34	8°♎29'17					
superior conj	357 Jul 17 j 04:48	24°♎07'48	1°44'15	superior conj	358 Jul 01 j 06:14	8°♎38'26	1°35'05
minimum elong	357 Jul 17 j 03:35	24°♎01'37	1°44'11	minimum elong	358 Jul 01 j 04:05	8°♎27'09	1°34'53
	357 Jul 20 j 02:52	0°♎		max. Earth dist.	358 Jul 04 j 16:00	15°♎42'47	1.34589 AU

evening rise	358 Jul 09 j 07:24	24°☿57'39			359 Jun 04 j 10:38	0°♊	
	358 Jul 11 j 22:58	0°♊		asc. node	359 Jun 06 j 19:13	4°♊45'10	
desc. node	358 Jul 29 j 07:43	28°♊40'15		morning set	359 Jun 08 j 11:49	8°♊16'20	
	358 Jul 30 j 06:06	0°♊					
evening max el	358 Aug 13 j 06:51	16°♊57'14	27°00'03	superior conj	359 Jun 15 j 13:10	23°♊25'30	1°20'42
retrograde	358 Aug 26 j 12:02	24°♊15'22		minimum elong	359 Jun 15 j 10:42	23°♊12'10	1°20'23
evening set	358 Sep 02 j 08:11	21°♊30'10		max. Earth dist.	359 Jun 17 j 16:41	28°♊01'11	1.33460 AU
min. Earth dist.	358 Sep 06 j 05:38	17°♊38'26	0.65383 AU		359 Jun 18 j 15:08	0°☿	
inferior conj	358 Sep 08 j 04:32	15°♊23'49	-2°30'18	evening rise	359 Jun 23 j 00:42	9°☿03'43	
minimum elong	358 Sep 08 j 08:20	15°♊12'53	2°28'55		359 Jul 04 j 08:52	0°♊	
morning rise	358 Sep 14 j 09:09	9°♊46'16		desc. node	359 Jul 16 j 04:44	17°♊56'09	
asc. node	358 Sep 15 j 21:21	9°♊12'46			359 Jul 26 j 13:07	0°♊	
direct	358 Sep 17 j 04:12	9°♊03'43		evening max el	359 Jul 26 j 18:10	0°♊12'05	27°24'13
morning max el	358 Sep 23 j 17:31	12°♊37'16	18°15'20	retrograde	359 Aug 09 j 08:28	7°♊31'15	
	358 Oct 05 j 23:32	0°♊		evening set	359 Aug 16 j 12:14	4°♊49'50	
morning set	358 Oct 12 j 12:28	10°♊42'27		min. Earth dist.	359 Aug 20 j 04:09	1°♊32'33	0.63932 AU
	358 Oct 24 j 10:34	0°♊			359 Aug 21 j 15:54	30°♊♊	
desc. node	358 Oct 25 j 07:03	1°♊21'28		inferior conj	359 Aug 22 j 16:01	28°♊56'41	-3°23'02
				minimum elong	359 Aug 22 j 20:46	28°♊44'18	3°21'38
superior conj	358 Oct 27 j 06:28	4°♊29'28	-0°13'02	morning rise	359 Aug 29 j 06:18	23°♊35'13	
minimum elong	358 Oct 27 j 04:47	4°♊22'46	0°12'49	direct	359 Aug 31 j 20:19	23°♊01'53	
behind sun begin	358 Oct 26 j 21:54	3°♊55'32		asc. node	359 Sep 02 j 18:26	23°♊20'34	
behind sun end	358 Oct 27 j 11:39	4°♊50'00		morning max el	359 Sep 07 j 09:14	26°♊28'02	17°55'48
max. Earth dist.	358 Oct 29 j 21:28	8°♊38'03	1.44964 AU		359 Sep 10 j 10:06	0°♊	
evening rise	358 Nov 12 j 16:58	0°♊14'18		morning set	359 Sep 24 j 08:36	22°♊30'28	
	358 Nov 12 j 13:18	0°♊			359 Sep 28 j 17:40	0°♊	
greatest brilliancy	358 Nov 24 j 12:24	18°♊31'58	-0.7m				
	358 Dec 02 j 10:47	0°♊		superior conj	359 Oct 07 j 01:18	13°♊52'12	0°33'38
evening max el	358 Dec 06 j 20:54	5°♊17'00	19°30'29	minimum elong	359 Oct 07 j 04:51	14°♊06'41	0°33'09
asc. node	358 Dec 12 j 20:36	9°♊19'43		desc. node	359 Oct 12 j 04:04	22°♊08'02	
retrograde	358 Dec 14 j 02:56	9°♊28'38		max. Earth dist.	359 Oct 12 j 15:07	22°♊52'10	1.44255 AU
evening set	358 Dec 17 j 13:46	8°♊18'57			359 Oct 17 j 03:23	0°♊	
inferior conj	358 Dec 23 j 02:43	2°♊23'30	3°00'18	evening rise	359 Oct 23 j 02:35	9°♊16'14	
minimum elong	358 Dec 22 j 23:58	2°♊32'27	2°59'36		359 Nov 05 j 19:48	0°♊	
min. Earth dist.	358 Dec 24 j 07:11	0°♊50'52	0.66346 AU	evening max el	359 Nov 19 j 23:48	18°♊45'43	20°30'11
	358 Dec 24 j 23:06	30°♊♊		retrograde	359 Nov 28 j 00:35	23°♊29'58	
morning rise	358 Dec 28 j 09:55	26°♊11'29		asc. node	359 Nov 29 j 17:39	23°♊13'22	
direct	359 Jan 03 j 14:45	23°♊26'33		evening set	359 Dec 01 j 20:22	22°♊05'34	
	359 Jan 15 j 04:53	0°♊		inferior conj	359 Dec 07 j 06:14	15°♊58'04	2°22'25
morning max el	359 Jan 16 j 00:02	0°♊47'22	25°52'55	minimum elong	359 Dec 07 j 03:36	16°♊07'00	2°21'32
desc. node	359 Jan 21 j 06:14	6°♊37'41		min. Earth dist.	359 Dec 07 j 21:47	15°♊05'18	0.67152 AU
	359 Feb 06 j 23:17	0°♊		morning rise	359 Dec 12 j 10:39	9°♊44'49	
morning set	359 Feb 21 j 06:03	24°♊17'50		direct	359 Dec 18 j 01:05	7°♊16'28	
	359 Feb 24 j 07:06	0°♊		morning max el	359 Dec 29 j 08:19	14°♊00'48	24°30'55
max. Earth dist.	359 Feb 25 j 02:51	1°♊34'28	1.35698 AU	desc. node	360 Jan 08 j 03:17	25°♊37'40	
					360 Jan 11 j 08:45	0°♊	
superior conj	359 Mar 02 j 11:46	12°♊10'00	-1°18'35		360 Jan 30 j 20:00	0°♊	
minimum elong	359 Mar 02 j 15:22	12°♊28'11	1°18'02	morning set	360 Feb 03 j 08:14	6°♊02'51	
evening rise	359 Mar 10 j 09:51	28°♊23'30		max. Earth dist.	360 Feb 07 j 00:24	12°♊36'23	1.37607 AU
asc. node	359 Mar 10 j 19:55	29°♊14'49					
	359 Mar 11 j 04:48	0°♊		superior conj	360 Feb 13 j 19:45	25°♊22'50	-1°40'55
evening max el	359 Mar 28 j 11:43	27°♊39'41	20°12'08	minimum elong	360 Feb 13 j 23:41	25°♊41'50	1°40'29
	359 Mar 31 j 06:47	0°♊			360 Feb 16 j 04:36	0°♊	
retrograde	359 Apr 08 j 00:13	2°♊43'08		evening rise	360 Feb 22 j 10:31	12°♊24'15	
evening set	359 Apr 10 j 02:26	2°♊32'00		asc. node	360 Feb 25 j 16:56	18°♊48'39	
	359 Apr 16 j 14:38	30°♊♊			360 Mar 02 j 22:33	0°♊	
inferior conj	359 Apr 19 j 02:28	28°♊33'34	0°02'06	evening max el	360 Mar 10 j 05:31	9°♊33'27	19°11'36
minimum elong	359 Apr 19 j 02:34	28°♊33'25	0°02'05	retrograde	360 Mar 19 j 02:14	13°♊49'39	
transit middle	359 Apr 19 j 02:34	28°♊33'25	0°02'05	evening set	360 Mar 21 j 07:03	13°♊34'59	
transit begin	359 Apr 18 j 22:35	28°♊39'20		inferior conj	360 Mar 29 j 12:58	9°♊24'09	1°47'18
transit end	359 Apr 19 j 06:33	28°♊27'30		minimum elong	360 Mar 29 j 16:48	9°♊17'38	1°46'06
desc. node	359 Apr 19 j 05:24	28°♊29'12		min. Earth dist.	360 Apr 01 j 11:57	7°♊24'46	0.56542 AU
min. Earth dist.	359 Apr 20 j 20:54	27°♊30'39	0.55322 AU	desc. node	360 Apr 05 j 02:26	5°♊19'03	
morning rise	359 Apr 28 j 00:55	24°♊12'06		morning rise	360 Apr 06 j 23:40	4°♊29'56	
direct	359 May 01 j 21:08	23°♊39'51		direct	360 Apr 11 j 21:38	3°♊33'55	
	359 May 15 j 02:42	0°♊		morning max el	360 Apr 26 j 02:40	10°♊50'48	25°21'50
morning max el	359 May 15 j 12:12	0°♊22'12	23°43'29		360 May 10 j 16:36	0°♊	

morning set	360 May 22 j 23:40	23°♄14'09		morning set	361 May 07 j 10:11	8°♄07'35	
asc. node	360 May 23 j 16:14	24°♄41'44		asc. node	361 May 10 j 13:15	14°♄47'48	
	360 May 26 j 03:28	0°♄					
superior conj	360 May 29 j 23:24	8°♄21'39	1°02'10	superior conj	361 May 14 j 11:05	23°♄20'50	0°40'20
minimum elong	360 May 29 j 21:07	8°♄09'08	1°01'47	minimum elong	361 May 14 j 09:25	23°♄11'37	0°40'00
max. Earth dist.	360 May 31 j 00:52	10°♄40'32	1.32719 AU	max. Earth dist.	361 May 14 j 13:05	23°♄31'51	1.32347 AU
evening rise	360 Jun 06 j 02:19	23°♄34'17			361 May 17 j 11:58	0°♄	
	360 Jun 09 j 06:54	0°♄		evening rise	361 May 21 j 09:29	8°♄20'31	
	360 Jun 27 j 03:29	0°♄			361 Jun 01 j 17:15	0°♄	
desc. node	360 Jul 02 j 01:45	6°♄24'19		desc. node	361 Jun 18 j 22:45	23°♄44'58	
evening max el	360 Jul 08 j 02:23	12°♄56'26	27°17'35	evening max el	361 Jun 20 j 04:50	24°♄58'55	26°37'50
retrograde	360 Jul 21 j 22:11	20°♄13'17			361 Jun 26 j 17:10	0°♄	
evening set	360 Jul 29 j 02:09	17°♄48'24		retrograde	361 Jul 04 j 04:21	2°♄13'27	
min. Earth dist.	360 Aug 01 j 16:15	14°♄58'08	0.62150 AU	evening set	361 Jul 10 j 21:28	0°♄18'16	
inferior conj	360 Aug 04 j 16:16	12°♄11'36	-4°08'22		361 Jul 11 j 10:07	30°♄	
minimum elong	360 Aug 04 j 20:57	12°♄00'42	4°07'24	min. Earth dist.	361 Jul 14 j 18:11	27°♄40'52	0.60136 AU
morning rise	360 Aug 11 j 17:09	7°♄09'44		inferior conj	361 Jul 18 j 01:49	24°♄59'58	-4°39'36
direct	360 Aug 14 j 04:43	6°♄42'43		minimum elong	361 Jul 18 j 04:40	24°♄54'09	4°39'19
asc. node	360 Aug 19 j 15:28	8°♄56'17		morning rise	361 Jul 25 j 13:50	20°♄20'22	
morning max el	360 Aug 21 j 00:18	10°♄09'36	17°54'31	direct	361 Jul 28 j 01:11	19°♄57'37	
	360 Sep 03 j 02:53	0°♄		morning max el	361 Aug 04 j 11:47	23°♄34'45	18°12'30
morning set	360 Sep 06 j 01:42	5°♄18'37		asc. node	361 Aug 06 j 12:29	25°♄45'45	
					361 Aug 09 j 16:16	0°♄	
superior conj	360 Sep 16 j 23:08	24°♄35'06	1°09'45	morning set	361 Aug 20 j 10:03	18°♄50'58	
minimum elong	360 Sep 17 j 04:02	24°♄56'06	1°09'11		361 Aug 26 j 08:34	0°♄	
	360 Sep 20 j 03:44	0°♄		superior conj	361 Aug 29 j 22:41	6°♄34'32	1°33'00
max. Earth dist.	360 Sep 24 j 05:08	6°♄43'10	1.42915 AU	minimum elong	361 Aug 30 j 02:16	6°♄50'44	1°32'43
desc. node	360 Sep 28 j 01:05	12°♄54'25		max. Earth dist.	361 Sep 06 j 13:24	19°♄54'47	1.41118 AU
evening rise	360 Oct 01 j 11:56	18°♄21'53		evening rise	361 Sep 11 j 13:37	28°♄14'05	
	360 Oct 09 j 01:47	0°♄			361 Sep 12 j 15:46	0°♄	
	360 Oct 30 j 18:59	0°♄		desc. node	361 Sep 14 j 22:07	3°♄37'21	
evening max el	360 Nov 01 j 20:53	2°♄14'35	21°41'27		361 Oct 02 j 16:59	0°♄	
retrograde	360 Nov 10 j 21:22	7°♄36'28		evening max el	361 Oct 15 j 12:44	15°♄44'55	22°59'56
evening set	360 Nov 15 j 04:03	5°♄55'36		retrograde	361 Oct 25 j 15:49	21°♄45'33	
asc. node	360 Nov 15 j 14:41	5°♄33'23		evening set	361 Oct 30 j 11:12	19°♄47'06	
	360 Nov 20 j 06:31	30°♄		asc. node	361 Nov 02 j 11:43	16°♄33'28	
inferior conj	360 Nov 20 j 12:30	29°♄39'19	1°37'42	inferior conj	361 Nov 04 j 19:42	13°♄25'42	0°47'51
minimum elong	360 Nov 20 j 10:27	29°♄46'24	1°36'55	minimum elong	361 Nov 04 j 18:36	13°♄29'30	0°47'23
min. Earth dist.	360 Nov 20 j 16:32	29°♄25'23	0.67595 AU	min. Earth dist.	361 Nov 04 j 13:07	13°♄48'25	0.67701 AU
morning rise	360 Nov 25 j 16:43	23°♄26'40		morning rise	361 Nov 10 j 01:56	7°♄15'48	
direct	360 Nov 30 j 15:51	21°♄19'56		direct	361 Nov 14 j 10:23	5°♄31'46	
morning max el	360 Dec 10 j 17:45	27°♄19'01	23°02'57	morning max el	361 Nov 23 j 07:44	10°♄44'54	21°37'56
	360 Dec 13 j 05:54	0°♄			361 Dec 08 j 07:18	0°♄	
desc. node	360 Dec 25 j 00:19	15°♄12'55		desc. node	361 Dec 11 j 21:22	5°♄13'44	
	361 Jan 04 j 00:48	0°♄		morning set	361 Dec 25 j 03:28	25°♄32'18	
morning set	361 Jan 14 j 08:25	16°♄29'05			361 Dec 27 j 22:20	0°♄	
max. Earth dist.	361 Jan 18 j 19:47	24°♄03'51	1.39725 AU	max. Earth dist.	361 Dec 31 j 19:38	6°♄21'20	1.41779 AU
	361 Jan 22 j 05:09	0°♄					
superior conj	361 Jan 26 j 12:36	7°♄47'35	-1°56'53	superior conj	362 Jan 08 j 09:06	19°♄11'41	-2°02'30
minimum elong	361 Jan 26 j 15:26	8°♄00'39	1°56'44	minimum elong	362 Jan 08 j 08:43	19°♄10'02	2°02'30
evening rise	361 Feb 05 j 02:25	25°♄54'01			362 Jan 14 j 11:03	0°♄	
	361 Feb 07 j 06:01	0°♄		evening rise	362 Jan 19 j 06:06	8°♄44'47	
asc. node	361 Feb 11 j 13:58	7°♄59'57		asc. node	362 Jan 29 j 11:00	26°♄41'06	
evening max el	361 Feb 21 j 08:22	22°♄01'00	18°31'05		362 Jan 31 j 16:10	0°♄	
retrograde	361 Feb 28 j 23:04	25°♄45'04		evening max el	362 Feb 04 j 17:21	4°♄54'01	18°10'34
evening set	361 Mar 03 j 09:03	25°♄23'43		retrograde	362 Feb 11 j 13:31	8°♄21'43	
inferior conj	361 Mar 10 j 20:08	20°♄53'35	2°59'27	evening set	362 Feb 14 j 04:28	7°♄51'48	
minimum elong	361 Mar 11 j 00:07	20°♄45'41	2°58'35	inferior conj	362 Feb 20 j 23:39	3°♄00'48	3°37'46
min. Earth dist.	361 Mar 14 j 06:14	18°♄12'19	0.58367 AU	minimum elong	362 Feb 21 j 01:43	2°♄56'01	3°37'33
morning rise	361 Mar 18 j 12:27	15°♄29'07			362 Feb 24 j 06:52	30°♄	
desc. node	361 Mar 22 j 23:27	14°♄03'55		min. Earth dist.	362 Feb 24 j 06:29	0°♄00'51	0.60463 AU
direct	361 Mar 24 j 11:36	13°♄58'05		morning rise	362 Feb 27 j 21:04	27°♄15'24	
morning max el	361 Apr 07 j 20:15	21°♄35'59	26°42'53	direct	362 Mar 06 j 13:42	25°♄07'00	
	361 Apr 15 j 04:29	0°♄		desc. node	362 Mar 09 j 20:30	25°♄36'04	
	361 May 03 j 10:25	0°♄			362 Mar 17 j 13:40	0°♄	
				morning max el	362 Mar 20 j 19:49	2°♄56'26	27°33'35

	362 Apr 09 j 15:13	0°♿		morning rise	363 Feb 10 j 01:45	9°♿41'27	
morning set	362 Apr 21 j 17:31	22°♿49'04		direct	363 Feb 17 j 01:27	7°♿04'31	
	362 Apr 25 j 03:14	0°♿		desc. node	363 Feb 24 j 17:34	9°♿43'28	
asc. node	362 Apr 27 j 10:17	4°♿57'59		morning max el	363 Mar 03 j 01:04	14°♿57'44	27°47'35
max. Earth dist.	362 Apr 28 j 01:22	6°♿20'20	1.32341 AU		363 Mar 15 j 07:06	0°♿	
					363 Apr 02 j 04:12	0°♿	
superior conj	362 Apr 28 j 22:29	8°♿15'53	0°15'55	morning set	363 Apr 05 j 19:34	7°♿11'34	
minimum elong	362 Apr 28 j 21:46	8°♿11'57	0°15'45	max. Earth dist.	363 Apr 11 j 09:54	18°♿53'07	1.32725 AU
behind sun begin	362 Apr 28 j 21:18	8°♿09'27					
behind sun end	362 Apr 28 j 22:13	8°♿14'27		superior conj	363 Apr 13 j 07:56	23°♿01'14	-0°10'19
evening rise	362 May 05 j 19:53	23°♿13'31		minimum elong	363 Apr 13 j 08:25	23°♿03'53	0°10'13
	362 May 09 j 02:30	0°♿		behind sun begin	363 Apr 13 j 04:25	22°♿42'14	
	362 May 27 j 08:15	0°♿		behind sun end	363 Apr 13 j 12:25	23°♿25'33	
evening max el	362 Jun 02 j 00:17	6°♿15'21	25°28'12	asc. node	363 Apr 14 j 07:21	25°♿08'15	
desc. node	362 Jun 05 j 19:46	9°♿29'28			363 Apr 16 j 13:02	0°♿	
retrograde	362 Jun 16 j 01:15	13°♿25'33		evening rise	363 Apr 20 j 07:40	8°♿06'53	
evening set	362 Jun 21 j 18:11	12°♿09'06			363 May 01 j 18:40	0°♿	
min. Earth dist.	362 Jun 26 j 12:20	9°♿26'10	0.58094 AU	evening max el	363 May 14 j 15:08	16°♿57'40	23°58'25
inferior conj	362 Jun 29 j 17:09	7°♿11'29	-4°46'27	desc. node	363 May 23 j 16:47	23°♿02'31	
minimum elong	362 Jun 29 j 15:59	7°♿13'32	4°46'24	retrograde	363 May 28 j 10:17	23°♿53'24	
morning rise	362 Jul 07 j 16:24	2°♿54'13		evening set	363 Jun 01 j 17:02	23°♿12'50	
direct	362 Jul 10 j 05:15	2°♿34'21		min. Earth dist.	363 Jun 08 j 02:10	20°♿08'58	0.56344 AU
morning max el	362 Jul 18 j 16:33	6°♿33'35	18°50'52	inferior conj	363 Jun 10 j 12:18	18°♿39'31	-4°15'49
asc. node	362 Jul 24 j 09:32	13°♿33'13		minimum elong	363 Jun 10 j 06:26	18°♿48'36	4°14'49
	362 Aug 02 j 17:17	0°♿		morning rise	363 Jun 18 j 22:38	14°♿39'49	
morning set	362 Aug 04 j 05:12	2°♿55'07		direct	363 Jun 21 j 14:20	14°♿21'32	
				morning max el	363 Jul 01 j 11:44	18°♿56'36	19°50'20
superior conj	362 Aug 12 j 18:24	19°♿34'05	1°44'36		363 Jul 10 j 00:32	0°♿	
minimum elong	362 Aug 12 j 19:53	19°♿41'08	1°44'32	asc. node	363 Jul 11 j 06:36	2°♿05'35	
	362 Aug 18 j 09:22	0°♿		morning set	363 Jul 19 j 07:55	17°♿22'41	
max. Earth dist.	362 Aug 19 j 16:51	2°♿21'05	1.39105 AU		363 Jul 25 j 13:14	0°♿	
evening rise	362 Aug 23 j 15:34	9°♿14'31					
desc. node	362 Sep 01 j 19:08	24°♿12'33		superior conj	363 Jul 27 j 04:54	3°♿18'34	1°46'37
	362 Sep 05 j 13:37	0°♿		minimum elong	363 Jul 27 j 04:31	3°♿16'37	1°46'37
evening max el	362 Sep 28 j 01:21	29°♿18'54	24°19'53	max. Earth dist.	363 Aug 01 j 20:49	14°♿17'32	1.37139 AU
	362 Sep 28 j 18:14	0°♿		evening rise	363 Aug 05 j 17:04	21°♿22'41	
retrograde	362 Oct 09 j 06:46	5°♿53'37			363 Aug 10 j 15:13	0°♿	
evening set	362 Oct 14 j 16:10	3°♿37'44		desc. node	363 Aug 19 j 16:09	14°♿35'14	
	362 Oct 18 j 00:21	30°♿			363 Aug 30 j 11:16	0°♿	
min. Earth dist.	362 Oct 19 j 09:10	28°♿12'20	0.67480 AU	evening max el	363 Sep 10 j 13:05	12°♿56'31	25°33'59
inferior conj	362 Oct 20 j 02:07	27°♿15'21	-0°05'44	retrograde	363 Sep 22 j 17:09	19°♿55'40	
minimum elong	362 Oct 20 j 02:15	27°♿14'53	0°05'41	evening set	363 Sep 28 j 17:09	17°♿24'18	
transit middle	362 Oct 20 j 02:15	27°♿14'53	0°05'41	min. Earth dist.	363 Oct 03 j 02:09	12°♿34'19	0.66940 AU
transit begin	362 Oct 19 j 23:41	27°♿23'30		inferior conj	363 Oct 04 j 05:55	11°♿05'07	-1°01'39
transit end	362 Oct 20 j 04:49	27°♿06'16		minimum elong	363 Oct 04 j 07:29	11°♿00'05	1°01'00
asc. node	362 Oct 20 j 08:45	26°♿53'01		asc. node	363 Oct 07 j 05:50	7°♿28'03	
morning rise	362 Oct 25 j 12:21	21°♿10'38		morning rise	363 Oct 09 j 22:00	5°♿08'28	
direct	362 Oct 29 j 07:37	19°♿47'53		direct	363 Oct 13 j 06:07	4°♿04'03	
morning max el	362 Nov 06 j 04:48	24°♿20'55	20°22'33	morning max el	363 Oct 20 j 09:26	8°♿06'13	19°20'40
	362 Nov 11 j 01:43	0°♿			363 Nov 05 j 06:20	0°♿	
desc. node	362 Nov 28 j 18:25	25°♿33'06		morning set	363 Nov 13 j 03:01	12°♿09'46	
	362 Dec 01 j 16:10	0°♿		desc. node	363 Nov 15 j 15:27	16°♿04'56	
morning set	362 Dec 04 j 01:59	3°♿43'06			363 Nov 24 j 12:55	0°♿	
max. Earth dist.	362 Dec 14 j 02:58	19°♿32'46	1.43485 AU	max. Earth dist.	363 Nov 26 j 17:19	3°♿26'35	1.44625 AU
superior conj	362 Dec 20 j 04:22	29°♿25'21	-1°53'05	superior conj	363 Nov 29 j 21:28	8°♿28'36	-1°25'17
minimum elong	362 Dec 19 j 23:03	29°♿03'21	1°52'47	minimum elong	363 Nov 29 j 13:03	7°♿55'07	1°24'25
	362 Dec 20 j 12:44	0°♿			363 Dec 13 j 03:39	0°♿	
evening rise	363 Jan 01 j 17:26	20°♿48'51		evening rise	363 Dec 14 j 08:01	1°♿57'35	
	363 Jan 06 j 23:59	0°♿			364 Jan 01 j 10:11	0°♿	
asc. node	363 Jan 16 j 08:03	14°♿43'17		evening max el	364 Jan 02 j 17:53	1°♿26'22	18°27'13
evening max el	363 Jan 19 j 05:29	18°♿05'07	18°09'31	asc. node	364 Jan 03 j 05:08	1°♿54'12	
retrograde	363 Jan 25 j 17:35	21°♿30'32		retrograde	364 Jan 09 j 06:54	5°♿01'42	
evening set	363 Jan 28 j 13:11	20°♿50'53		evening set	364 Jan 12 j 07:31	4°♿11'19	
inferior conj	363 Feb 03 j 20:06	15°♿39'24	3°49'05		364 Jan 17 j 01:42	30°♿	
minimum elong	363 Feb 03 j 20:00	15°♿39'37	3°49'06	inferior conj	364 Jan 18 j 05:24	28°♿40'44	3°40'44
min. Earth dist.	363 Feb 06 j 15:04	12°♿45'12	0.62519 AU	minimum elong	364 Jan 18 j 03:43	28°♿45'38	3°40'33

min. Earth dist.	364 Jan 20 j 09:06	26° Z 11'03	0.64308 AU	evening set	364 Dec 26 j 08:30	17° Z 46'11	
morning rise	364 Jan 23 j 23:23	22° Z 35'14		inferior conj	365 Jan 01 j 00:02	11° Z 58'47	3°18'11
direct	364 Jan 30 j 20:38	19° Z 44'27		minimum elong	364 Dec 31 j 21:29	12° Z 06'49	3°17'39
desc. node	364 Feb 11 j 14:38	25° Z 50'04		min. Earth dist.	365 Jan 02 j 12:30	10° Z 04'11	0.65721 AU
morning max el	364 Feb 13 j 09:48	27° Z 33'26	27°25'38	morning rise	365 Jan 06 j 10:12	5° Z 48'33	
	364 Feb 15 j 17:40	0° \approx		direct	365 Jan 12 j 22:11	2° Z 58'21	
	364 Mar 07 j 23:37	0° X		morning max el	365 Jan 25 j 19:33	10° Z 32'53	26°33'24
morning set	364 Mar 19 j 13:40	21° X 06'06		desc. node	365 Jan 28 j 11:41	13° Z 22'52	
	364 Mar 23 j 23:36	0° Y			365 Feb 10 j 06:25	0° \approx	
max. Earth dist.	364 Mar 24 j 10:50	0° Y 58'09	1.33530 AU		365 Feb 28 j 12:00	0° X	
				morning set	365 Mar 02 j 20:16	4° X 22'11	
superior conj	364 Mar 27 j 13:33	7° Y 30'22	-0°37'23	max. Earth dist.	365 Mar 07 j 01:04	12° X 30'11	1.34782 AU
minimum elong	364 Mar 27 j 15:22	7° Y 40'00	0°37'00				
asc. node	364 Mar 31 j 04:25	15° Y 14'15		superior conj	365 Mar 11 j 13:05	21° X 36'37	-1°04'04
evening rise	364 Apr 03 j 18:57	22° Y 54'01		minimum elong	365 Mar 11 j 16:09	21° X 52'22	1°03'31
	364 Apr 07 j 05:54	0° Z			365 Mar 15 j 13:49	0° Y	
evening max el	364 Apr 25 j 07:16	27° Z 31'42	22°22'58	asc. node	365 Mar 18 j 01:28	5° Y 11'47	
	364 Apr 28 j 03:39	0° II		evening rise	365 Mar 19 j 03:53	7° Y 28'48	
retrograde	364 May 08 j 06:26	3° II 55'08			365 Mar 31 j 10:51	0° Z	
desc. node	364 May 09 j 13:47	3° II 51'19		evening max el	365 Apr 07 j 07:20	8° Z 26'11	20°55'21
evening set	364 May 11 j 05:12	3° II 36'00		retrograde	365 Apr 18 j 19:39	14° Z 00'59	
min. Earth dist.	364 May 19 j 14:30	29° Z 59'21	0.55228 AU	evening set	365 Apr 21 j 00:46	13° Z 49'23	
	364 May 19 j 14:02	30° RZ		desc. node	365 Apr 26 j 10:50	11° Z 56'52	
inferior conj	364 May 20 j 13:52	29° Z 26'19	-2°59'14	inferior conj	365 Apr 30 j 07:53	9° Z 51'14	-1°06'50
minimum elong	364 May 20 j 06:40	29° Z 36'30	2°57'07	minimum elong	365 Apr 30 j 04:43	9° Z 55'44	1°05'42
morning rise	364 May 29 j 10:00	25° Z 32'51		min. Earth dist.	365 May 01 j 03:15	9° Z 23'44	0.55005 AU
direct	364 Jun 01 j 06:55	25° Z 14'05		morning rise	365 May 09 j 08:22	5° Z 45'29	
	364 Jun 12 j 03:23	0° II		direct	365 May 12 j 16:57	5° Z 21'11	
morning max el	364 Jun 12 j 19:42	0° II 36'47	21°10'04	morning max el	365 May 25 j 17:26	11° Z 35'59	22°45'27
asc. node	364 Jun 27 j 03:40	21° II 12'00			365 Jun 08 j 07:53	0° II	
	364 Jul 01 j 14:56	0° O		asc. node	365 Jun 14 j 00:43	10° II 43'14	
morning set	364 Jul 02 j 15:40	2° O 06'53		morning set	365 Jun 17 j 02:21	17° II 00'46	
					365 Jun 23 j 04:45	0° O	
superior conj	364 Jul 10 j 01:53	17° O 35'32	1°41'04				
minimum elong	364 Jul 10 j 00:12	17° O 26'49	1°40'58	superior conj	365 Jun 24 j 05:55	2° O 14'06	1°29'34
max. Earth dist.	364 Jul 14 j 07:09	26° O 09'31	1.35416 AU	minimum elong	365 Jun 24 j 03:34	2° O 01'35	1°29'18
	364 Jul 16 j 06:00	0° Q		max. Earth dist.	365 Jun 27 j 02:32	8° O 15'17	1.34054 AU
evening rise	364 Jul 18 j 13:43	4° Q 27'12		evening rise	365 Jul 02 j 00:37	18° O 13'57	
	364 Aug 02 j 11:11	0° P			365 Jul 08 j 06:24	0° Q	
desc. node	364 Aug 05 j 13:09	4° P 39'27		desc. node	365 Jul 23 j 10:10	24° Q 16'17	
evening max el	364 Aug 23 j 01:05	26° P 33'22	26°34'25		365 Jul 27 j 16:40	0° P	
	364 Aug 27 j 00:13	0° Q		evening max el	365 Aug 05 j 12:52	9° P 58'56	27°13'45
retrograde	364 Sep 04 j 22:24	3° Q 46'35		retrograde	365 Aug 18 j 22:09	17° P 17'59	
evening set	364 Sep 11 j 12:05	1° Q 04'16		evening set	365 Aug 25 j 22:27	14° P 32'43	
	364 Sep 12 j 16:35	30° RQ		min. Earth dist.	365 Aug 29 j 17:13	10° P 56'32	0.64815 AU
min. Earth dist.	364 Sep 15 j 13:37	26° P 51'21	0.66061 AU	inferior conj	365 Aug 31 j 21:42	8° P 31'47	-2°53'13
inferior conj	364 Sep 17 j 05:12	24° P 52'21	-1°58'12	minimum elong	365 Sep 01 j 01:59	8° P 19'56	2°51'47
minimum elong	364 Sep 17 j 08:14	24° P 43'14	1°57'00	morning rise	365 Sep 07 j 06:18	3° P 00'54	
morning rise	364 Sep 23 j 04:49	19° P 06'56		direct	365 Sep 09 j 22:58	2° P 22'38	
asc. node	364 Sep 23 j 02:53	19° P 09'39		asc. node	365 Sep 09 j 23:56	2° P 22'38	
direct	364 Sep 26 j 04:02	18° P 17'22		morning max el	365 Sep 16 j 11:11	5° P 51'42	18°04'55
morning max el	364 Oct 02 j 20:23	21° P 58'24	18°34'26		365 Oct 02 j 14:48	0° Q	
	364 Oct 09 j 04:52	0° Q		morning set	365 Oct 04 j 08:46	2° Q 55'40	
morning set	364 Oct 23 j 03:33	21° Q 50'36					
	364 Oct 28 j 06:12	0° R		superior conj	365 Oct 18 j 05:45	25° Q 40'05	0°07'40
desc. node	364 Nov 01 j 12:30	6° R 45'28		minimum elong	365 Oct 18 j 06:41	25° Q 43'49	0°07'32
				behind sun begin	365 Oct 17 j 21:10	25° Q 05'41	
superior conj	364 Nov 07 j 22:50	16° R 53'22	-0°41'31	behind sun end	365 Oct 18 j 16:13	26° Q 21'53	
minimum elong	364 Nov 07 j 17:27	16° R 32'13	0°40'50	desc. node	365 Oct 19 j 09:30	27° Q 30'51	
max. Earth dist.	364 Nov 08 j 11:48	17° R 44'22	1.45062 AU		365 Oct 20 j 23:02	0° R	
	364 Nov 16 j 06:54	0° X		max. Earth dist.	365 Oct 22 j 06:38	2° R 05'06	1.44752 AU
evening rise	364 Nov 23 j 23:04	12° X 08'11		evening rise	365 Nov 03 j 16:36	21° R 27'50	
greatest brilliancy	364 Dec 02 j 17:19	26° X 01'52	-0.8m		365 Nov 09 j 05:33	0° X	
	364 Dec 05 j 06:21	0° Z		greatest brilliancy	365 Nov 17 j 05:25	12° X 07'35	-0.7m
evening max el	364 Dec 16 j 04:02	14° Z 52'42	19°02'36	evening max el	365 Nov 29 j 09:53	28° X 20'49	19°54'08
asc. node	364 Dec 20 j 02:11	18° Z 00'00			365 Dec 01 j 03:31	0° Z	
retrograde	364 Dec 23 j 01:48	18° Z 48'31		retrograde	365 Dec 06 j 23:14	2° Z 45'50	

asc. node	365 Dec 06 j 23:12	2°  45'50		retrograde	366 Nov 20 j 20:50	16°  49'49	
evening set	365 Dec 10 j 13:38	1°  30'03		asc. node	366 Nov 23 j 20:13	15°  59'54	
	365 Dec 12 j 07:34	30°  18'47		evening set	366 Nov 24 j 20:53	15°  18'47	
inferior conj	365 Dec 16 j 01:02	25°  28'48	2°45'10	inferior conj	366 Nov 30 j 05:58	9°  06'59	2°04'11
minimum elong	365 Dec 15 j 22:16	25°  37'59	2°44'22	minimum elong	366 Nov 30 j 03:32	9°  15'21	2°03'20
min. Earth dist.	365 Dec 16 j 23:44	24°  13'18	0.66735 AU	min. Earth dist.	366 Nov 30 j 16:30	8°  30'49	0.67380 AU
morning rise	365 Dec 21 j 06:42	19°  15'53		morning rise	366 Dec 05 j 09:59	2°  53'29	
direct	365 Dec 27 j 05:27	16°  37'26		direct	366 Dec 10 j 17:52	0°  33'53	
morning max el	366 Jan 08 j 04:34	23°  44'31	25°19'24	morning max el	366 Dec 21 j 13:02	7°  00'25	23°53'35
	366 Jan 13 j 18:56	0°  3		desc. node	367 Jan 02 j 05:46	21°  13'26	
desc. node	366 Jan 15 j 08:45	1°  35'44			367 Jan 08 j 10:42	0°  3	
	366 Feb 03 j 15:44	0°  ≈		morning set	367 Jan 26 j 02:29	27°  59'52	
morning set	366 Feb 13 j 10:36	16°  ≈46'04			367 Jan 27 j 06:22	0°  ≈	
max. Earth dist.	366 Feb 17 j 03:50	23°  ≈36'40	1.36469 AU	max. Earth dist.	367 Jan 29 j 23:03	4°  ≈43'36	1.38494 AU
	366 Feb 20 j 12:10	0°  ✕		superior conj	367 Feb 06 j 05:53	18°  ≈05'59	-1°48'41
superior conj	366 Feb 23 j 03:46	5°  ✕12'04	-1°28'38	minimum elong	367 Feb 06 j 09:34	18°  ≈23'27	1°48'23
minimum elong	366 Feb 23 j 07:38	5°  ✕31'15	1°28'06		367 Feb 12 j 09:41	0°  ✕	
evening rise	366 Mar 03 j 08:18	21°  ✕44'31		evening rise	367 Feb 15 j 05:38	5°  ✕33'05	
asc. node	366 Mar 04 j 22:30	24°  ✕56'15		asc. node	367 Feb 19 j 19:32	14°  ✕21'30	
	366 Mar 07 j 12:30	0°  Υ			367 Mar 01 j 17:09	0°  Υ	
evening max el	366 Mar 20 j 18:46	19°  Υ58'11	19°43'57	evening max el	367 Mar 03 j 16:49	2°  Υ07'40	18°51'56
retrograde	366 Mar 30 j 13:54	24°  Υ40'38		retrograde	367 Mar 11 j 23:28	6°  Υ08'02	
evening set	366 Apr 01 j 16:15	24°  Υ28'38		evening set	367 Mar 14 j 06:18	5°  Υ50'57	
inferior conj	366 Apr 10 j 09:04	20°  Υ26'07	0°50'05	inferior conj	367 Mar 22 j 04:04	1°  Υ32'45	2°22'16
minimum elong	366 Apr 10 j 11:11	20°  Υ22'47	0°49'21	minimum elong	367 Mar 22 j 08:21	1°  Υ25'00	2°21'05
min. Earth dist.	366 Apr 12 j 17:35	18°  Υ58'04	0.55737 AU		367 Mar 24 j 07:15	30°  ✕✕	
desc. node	366 Apr 13 j 07:53	18°  Υ36'29		min. Earth dist.	367 Mar 25 j 10:03	29°  ✕12'49	0.57263 AU
morning rise	366 Apr 19 j 03:39	15°  Υ50'53		morning rise	367 Mar 30 j 07:20	26°  ✕24'30	
direct	366 Apr 23 j 09:57	15°  Υ10'24		desc. node	367 Mar 31 j 04:55	26°  ✕03'17	
morning max el	366 May 07 j 09:06	22°  Υ09'49	24°26'33	direct	367 Apr 04 j 16:40	25°  ✕14'17	
	366 May 14 j 06:17	0°  ♄			367 Apr 15 j 22:52	0°  Υ	
asc. node	366 May 31 j 21:46	0°  ♄32'35		morning max el	367 Apr 19 j 00:17	2°  Υ42'24	25°59'13
	366 May 31 j 15:31	0°  ♄			367 May 08 j 10:51	0°  ♄	
morning set	366 Jun 01 j 14:14	1°  ♄58'56		morning set	367 May 17 j 01:41	16°  ♄55'15	
				asc. node	367 May 18 j 18:48	20°  ♄33'46	
superior conj	366 Jun 08 j 14:31	17°  ♄06'13	1°13'19		367 May 23 j 02:53	0°  ♄	
minimum elong	366 Jun 08 j 12:04	16°  ♄52'55	1°12'56	superior conj	367 May 24 j 01:35	2°  ♄04'24	0°53'17
max. Earth dist.	366 Jun 10 j 06:35	20°  ♄42'40	1.33091 AU	minimum elong	367 May 23 j 23:30	1°  ♄53'01	0°52'53
	366 Jun 14 j 16:11	0°  ♄		max. Earth dist.	367 May 24 j 16:41	3°  ♄27'11	1.32513 AU
evening rise	366 Jun 15 j 21:49	2°  ♄31'37		evening rise	367 May 31 j 02:04	17°  ♄09'44	
	366 Jul 01 j 02:28	0°  ♄			367 Jun 06 j 13:41	0°  ♄	
desc. node	366 Jul 10 j 07:10	13°  ♄14'01			367 Jun 26 j 01:48	0°  ♄	
evening max el	366 Jul 18 j 22:55	23°  ♄01'27	27°25'20	desc. node	367 Jun 27 j 04:11	1°  ♄16'22	
	366 Jul 29 j 22:33	0°  ♄		evening max el	367 Jul 01 j 04:57	5°  ♄29'00	27°04'46
retrograde	366 Aug 01 j 16:02	30°  ♄18'41		retrograde	367 Jul 15 j 02:58	12°  ♄45'24	
	366 Aug 04 j 07:27	27°  ♄44'16		evening set	367 Jul 22 j 03:36	10°  ♄31'48	
evening set	366 Aug 08 j 21:00	24°  ♄39'59	0.63209 AU	min. Earth dist.	367 Jul 25 j 19:10	7°  ♄48'49	0.61303 AU
min. Earth dist.	366 Aug 12 j 11:18	21°  ♄57'35	-3°43'31	inferior conj	367 Jul 28 j 23:10	5°  ♄02'20	-4°23'57
inferior conj	366 Aug 15 j 04:44	21°  ♄45'24	3°42'15	minimum elong	367 Jul 29 j 03:20	4°  ♄53'08	4°23'16
minimum elong	366 Aug 15 j 09:38	16°  ♄44'22		morning rise	367 Aug 05 j 04:44	0°  ♄09'36	
morning rise	366 Aug 21 j 23:28	16°  ♄44'22			367 Aug 05 j 17:42	30°  ♄♄	
direct	366 Aug 24 j 12:03	16°  ♄14'10		direct	367 Aug 07 j 15:48	29°  ♄44'44	
asc. node	366 Aug 27 j 20:58	17°  ♄09'02			367 Aug 09 j 13:10	0°  ♄	
morning max el	366 Aug 31 j 03:01	19°  ♄39'39	17°53'00	morning max el	367 Aug 14 j 16:55	3°  ♄15'10	17°59'44
	366 Sep 07 j 18:15	0°  ♄		asc. node	367 Aug 14 j 18:00	3°  ♄17'48	
morning set	366 Sep 16 j 14:31	15°  ♄11'02		morning set	367 Aug 30 j 14:44	28°  ♄19'45	
	366 Sep 25 j 03:44	0°  ♄			367 Aug 31 j 12:32	0°  ♄	
superior conj	366 Sep 28 j 11:41	5°  ♄36'15	0°50'29	superior conj	367 Sep 09 j 20:58	16°  ♄53'07	1°21'10
minimum elong	366 Sep 28 j 16:16	5°  ♄55'19	0°49'54	minimum elong	367 Sep 10 j 01:31	17°  ♄13'03	1°20'41
max. Earth dist.	366 Oct 04 j 22:34	16°  ♄09'55	1.43750 AU	max. Earth dist.	367 Sep 17 j 09:47	29°  ♄44'05	1.42189 AU
desc. node	366 Oct 06 j 06:30	18°  ♄17'53			367 Sep 17 j 13:38	0°  ♄	
evening rise	366 Oct 13 j 23:44	0°  ♄25'13		desc. node	367 Sep 23 j 03:32	9°  ♄03'31	
	366 Oct 13 j 17:13	0°  ♄		evening rise	367 Sep 23 j 14:24	9°  ♄46'44	
	366 Nov 02 j 22:22	0° ♄			367 Oct 06 j 20:38	0° ♄	
evening max el	366 Nov 12 j 10:14	11° ♄49'26	20°59'17				

evening max el	367 Oct 26 j 05:02	25° \mathbb{M} 19'40	22°14'20	evening max el	368 Oct 07 j 19:24	8° \mathbb{M} 51'58	23°34'16
	367 Nov 01 j 02:34	0° \mathbb{A}		retrograde	368 Oct 18 j 09:42	15° \mathbb{M} 07'16	
retrograde	367 Nov 04 j 16:46	0° \mathbb{A} 58'11		evening set	368 Oct 23 j 10:59	13° \mathbb{M} 01'20	
	367 Nov 08 j 00:20	30° $\mathbb{R}\mathbb{M}$		asc. node	368 Oct 27 j 14:18	8° \mathbb{M} 20'04	
evening set	367 Nov 09 j 04:34	29° \mathbb{M} 10'11		inferior conj	368 Oct 28 j 19:57	6° \mathbb{M} 39'18	0°25'31
asc. node	367 Nov 10 j 17:15	27° \mathbb{M} 43'36		minimum elong	368 Oct 28 j 19:21	6° \mathbb{M} 41'22	0°25'16
inferior conj	367 Nov 14 j 12:53	22° \mathbb{M} 51'27	1°17'09	min. Earth dist.	368 Oct 28 j 09:00	7° \mathbb{M} 16'45	0.67649 AU
minimum elong	367 Nov 14 j 11:12	22° \mathbb{M} 57'18	1°16'28	morning rise	368 Nov 03 j 03:39	0° \mathbb{M} 31'26	
min. Earth dist.	367 Nov 14 j 12:25	22° \mathbb{M} 53'04	0.67679 AU		368 Nov 03 j 21:28	30° $\mathbb{R}\mathbb{A}$	
morning rise	367 Nov 19 j 17:41	16° \mathbb{M} 39'32		direct	368 Nov 07 j 06:23	28° \mathbb{A} 56'35	
direct	367 Nov 24 j 10:31	14° \mathbb{M} 42'12			368 Nov 10 j 21:29	0° \mathbb{M}	
morning max el	367 Dec 03 j 23:49	20° \mathbb{M} 21'23	22°25'57	morning max el	368 Nov 15 j 16:32	3° \mathbb{M} 51'06	21°04'28
	367 Dec 12 j 03:24	0° \mathbb{A}			368 Dec 05 j 04:55	0° \mathbb{A}	
desc. node	367 Dec 20 j 02:48	11° \mathbb{A} 01'10		desc. node	368 Dec 05 j 23:50	1° \mathbb{A} 10'41	
	368 Jan 01 j 16:44	0° \mathbb{B}		morning set	368 Dec 15 j 22:31	16° \mathbb{A} 24'49	
morning set	368 Jan 06 j 14:15	7° \mathbb{B} 50'27		max. Earth dist.	368 Dec 23 j 22:50	29° \mathbb{A} 13'13	1.42569 AU
max. Earth dist.	368 Jan 11 j 19:22	16° \mathbb{B} 29'49	1.40629 AU		368 Dec 24 j 10:17	0° \mathbb{B}	
superior conj	368 Jan 19 j 14:49	0° \approx 07'27	-2°00'48	superior conj	368 Dec 31 j 01:08	11° \mathbb{B} 03'00	-2°00'37
minimum elong	368 Jan 19 j 16:35	0° \approx 15'22	2°00'46	minimum elong	368 Dec 30 j 22:45	10° \mathbb{B} 52'51	2°00'33
	368 Jan 19 j 13:10	0° \approx			369 Jan 10 j 20:18	0° \approx	
evening rise	368 Jan 29 j 16:49	18° \approx 47'33		evening rise	369 Jan 11 j 14:04	1° \approx 19'43	
	368 Feb 04 j 18:22	0° \mathbb{H}		asc. node	369 Jan 23 j 13:37	21° \approx 47'14	
asc. node	368 Feb 06 j 16:34	3° \mathbb{H} 21'14		evening max el	369 Jan 28 j 09:28	27° \approx 49'49	18°07'42
evening max el	368 Feb 14 j 22:46	14° \mathbb{H} 47'51	18°19'54		369 Jan 31 j 01:40	0° \mathbb{H}	
retrograde	368 Feb 22 j 03:56	18° \mathbb{H} 22'35		retrograde	369 Feb 04 j 00:52	1° \mathbb{H} 14'50	
evening set	368 Feb 24 j 16:16	17° \mathbb{H} 57'38		evening set	369 Feb 06 j 17:53	0° \mathbb{H} 40'46	
inferior conj	368 Mar 02 j 20:10	13° \mathbb{H} 18'46	3°19'26		369 Feb 08 j 02:19	30° $\mathbb{R}\mathbb{A}$	
minimum elong	368 Mar 02 j 23:28	13° \mathbb{H} 11'47	3°18'53	inferior conj	369 Feb 13 j 07:23	25° \approx 40'35	3°45'23
min. Earth dist.	368 Mar 06 j 06:25	10° \mathbb{H} 26'30	0.59259 AU	minimum elong	369 Feb 13 j 08:30	25° \approx 37'50	3°45'20
morning rise	368 Mar 10 j 04:17	7° \mathbb{H} 44'31		min. Earth dist.	369 Feb 16 j 09:44	22° \approx 40'41	0.61364 AU
direct	368 Mar 16 j 12:21	5° \mathbb{H} 56'59		morning rise	369 Feb 19 j 21:39	19° \approx 49'10	
desc. node	368 Mar 17 j 01:58	5° \mathbb{H} 57'50		direct	369 Feb 26 j 18:32	17° \approx 27'27	
morning max el	368 Mar 30 j 20:00	13° \mathbb{H} 40'09	27°08'33	desc. node	369 Mar 03 j 23:02	18° \approx 40'09	
	368 Apr 12 j 20:15	0° \mathbb{Y}		morning max el	369 Mar 12 j 22:12	25° \approx 18'26	27°44'09
	368 Apr 29 j 14:59	0° \mathbb{B}			369 Mar 17 j 06:10	0° \mathbb{H}	
morning set	368 Apr 30 j 11:03	1° \mathbb{B} 44'04			369 Apr 06 j 05:36	0° \mathbb{Y}	
asc. node	368 May 04 j 15:51	10° \mathbb{B} 42'03		morning set	369 Apr 14 j 16:28	16° \mathbb{Y} 19'01	
max. Earth dist.	368 May 07 j 05:23	16° \mathbb{B} 18'43	1.32305 AU	max. Earth dist.	369 Apr 20 j 16:50	29° \mathbb{Y} 03'54	1.32462 AU
					369 Apr 21 j 03:09	0° \mathbb{B}	
superior conj	368 May 07 j 13:21	17° \mathbb{B} 02'25	0°30'15	asc. node	369 Apr 21 j 12:55	0° \mathbb{B} 53'11	
minimum elong	368 May 07 j 12:02	16° \mathbb{B} 55'15	0°29'58				
	368 May 13 j 12:16	0° \mathbb{I}		superior conj	369 Apr 22 j 00:10	1° \mathbb{B} 54'35	0°04'59
evening rise	368 May 14 j 10:53	1° \mathbb{I} 59'51		minimum elong	369 Apr 21 j 23:56	1° \mathbb{B} 53'19	0°04'56
	368 May 29 j 15:08	0° \mathbb{E}		behind sun begin	369 Apr 21 j 19:05	1° \mathbb{B} 26'48	
evening max el	368 Jun 12 j 04:40	17° \mathbb{E} 12'14	26°11'30	behind sun end	369 Apr 22 j 04:48	2° \mathbb{B} 19'52	
desc. node	368 Jun 13 j 01:13	18° \mathbb{E} 00'02		evening rise	369 Apr 28 j 22:10	16° \mathbb{B} 54'39	
retrograde	368 Jun 26 j 05:13	24° \mathbb{E} 24'41			369 May 05 j 10:05	0° \mathbb{I}	
evening set	368 Jul 02 j 13:34	22° \mathbb{E} 45'50		evening max el	369 May 24 j 21:42	28° \mathbb{I} 12'24	24°51'35
min. Earth dist.	368 Jul 06 j 17:30	20° \mathbb{E} 08'08	0.59251 AU		369 May 26 j 21:23	0° \mathbb{E}	
inferior conj	368 Jul 10 j 01:22	17° \mathbb{E} 36'11	-4°46'18	desc. node	369 May 30 j 22:15	2° \mathbb{E} 54'05	
minimum elong	368 Jul 10 j 02:45	17° \mathbb{E} 33'31	4°46'14	retrograde	369 Jun 07 j 21:01	5° \mathbb{E} 17'45	
morning rise	368 Jul 17 j 18:06	13° \mathbb{E} 05'56		evening set	369 Jun 13 j 00:25	4° \mathbb{E} 17'33	
direct	368 Jul 20 j 06:00	12° \mathbb{E} 44'27		min. Earth dist.	369 Jun 18 j 09:07	1° \mathbb{E} 27'35	0.57297 AU
morning max el	368 Jul 28 j 01:49	16° \mathbb{E} 29'39	18°26'16		369 Jun 20 j 14:23	30° $\mathbb{R}\mathbb{I}$	
asc. node	368 Jul 31 j 15:04	20° \mathbb{E} 33'29		inferior conj	369 Jun 21 j 08:14	29° \mathbb{I} 30'16	-4°38'47
	368 Aug 06 j 15:53	0° \mathbb{O}		minimum elong	369 Jun 21 j 04:57	29° \mathbb{I} 35'43	4°38'29
morning set	368 Aug 13 j 04:10	12° \mathbb{O} 06'57		morning rise	369 Jun 29 j 12:15	25° \mathbb{I} 21'34	
				direct	369 Jul 02 j 02:22	25° \mathbb{I} 02'24	
superior conj	368 Aug 22 j 05:45	29° \mathbb{O} 19'38	1°39'14	morning max el	369 Jul 11 j 02:49	29° \mathbb{I} 14'42	19°13'38
minimum elong	368 Aug 22 j 08:28	29° \mathbb{O} 32'10	1°39'03		369 Jul 11 j 21:26	0° \mathbb{E}	
	368 Aug 22 j 14:30	0° \mathbb{P}		asc. node	369 Jul 18 j 12:08	8° \mathbb{E} 41'55	
max. Earth dist.	368 Aug 29 j 16:01	12° \mathbb{P} 37'27	1.40272 AU	morning set	369 Jul 28 j 02:56	26° \mathbb{E} 22'38	
evening rise	368 Sep 03 j 02:02	20° \mathbb{P} 06'48			369 Jul 29 j 22:35	0° \mathbb{O}	
desc. node	368 Sep 09 j 00:33	29° \mathbb{P} 43'42					
	368 Sep 09 j 04:41	0° \mathbb{A}		superior conj	369 Aug 05 j 08:26	12° \mathbb{O} 40'38	1°46'29
	368 Sep 30 j 02:20	0° \mathbb{M}		minimum elong	369 Aug 05 j 09:03	12° \mathbb{O} 43'41	1°46'29

max. Earth dist.	369 Aug 11 j 19:24	24°♎50'31	1.38249 AU	max. Earth dist.	370 Jul 25 j 01:06	6°♎40'23	1.36364 AU
	369 Aug 14 j 16:21	0°♎		evening rise	370 Jul 29 j 00:39	14°♎10'38	
evening rise	369 Aug 15 j 14:25	1°♎37'06			370 Aug 07 j 02:45	0°♎	
desc. node	369 Aug 26 j 21:34	20°♎14'27		desc. node	370 Aug 13 j 18:36	10°♎30'10	
	369 Sep 02 j 09:56	0°♎			370 Aug 28 j 03:59	0°♎	
evening max el	369 Sep 20 j 07:19	22°♎27'20	24°52'30	evening max el	370 Sep 02 j 18:50	6°♎04'31	26°01'46
retrograde	369 Oct 01 j 22:41	29°♎13'32		retrograde	370 Sep 15 j 07:08	13°♎11'41	
evening set	369 Oct 07 j 14:28	26°♎50'24		evening set	370 Sep 21 j 13:10	10°♎34'38	
min. Earth dist.	369 Oct 12 j 03:55	21°♎40'06	0.67295 AU	min. Earth dist.	370 Sep 25 j 18:48	6°♎00'25	0.66605 AU
inferior conj	369 Oct 13 j 01:27	20°♎28'57	-0°29'16	inferior conj	370 Sep 27 j 03:34	4°♎17'50	-1°25'41
minimum elong	369 Oct 13 j 02:11	20°♎26'33	0°28'57	minimum elong	370 Sep 27 j 05:45	4°♎10'57	1°24'47
asc. node	369 Oct 14 j 11:21	18°♎38'42			370 Sep 30 j 22:11	30°♎	
morning rise	369 Oct 18 j 13:59	14°♎27'35		asc. node	370 Oct 01 j 08:25	29°♎36'47	
direct	369 Oct 22 j 04:14	13°♎13'08		morning rise	370 Oct 02 j 22:41	28°♎25'45	
morning max el	369 Oct 29 j 16:58	17°♎31'33	19°54'28	direct	370 Oct 06 j 02:37	27°♎28'17	
	369 Nov 08 j 12:00	0°♎			370 Oct 11 j 14:09	0°♎	
desc. node	369 Nov 22 j 20:52	21°♎35'46		morning max el	370 Oct 13 j 00:36	1°♎20'35	18°59'00
morning set	369 Nov 24 j 18:52	24°♎33'11			370 Nov 01 j 23:29	0°♎	
	369 Nov 28 j 07:08	0°♎		morning set	370 Nov 04 j 04:08	3°♎26'45	
max. Earth dist.	369 Dec 06 j 09:42	12°♎45'44	1.44048 AU	desc. node	370 Nov 09 j 17:53	12°♎11'45	
				max. Earth dist.	370 Nov 19 j 01:45	26°♎50'28	1.44891 AU
superior conj	369 Dec 11 j 08:47	20°♎44'31	-1°43'35	superior conj	370 Nov 20 j 17:04	29°♎25'22	-1°08'11
minimum elong	369 Dec 11 j 01:36	20°♎15'21	1°43'01	minimum elong	370 Nov 20 j 09:09	28°♎54'09	1°07'17
	369 Dec 16 j 23:59	0°♎			370 Nov 21 j 01:51	0°♎	
evening rise	369 Dec 24 j 17:05	13°♎01'15		evening rise	370 Dec 05 j 21:49	23°♎45'19	
	370 Jan 03 j 18:56	0°♎			370 Dec 09 j 17:47	0°♎	
asc. node	370 Jan 10 j 10:40	9°♎29'12		evening max el	370 Dec 26 j 09:38	24°♎29'39	18°40'14
evening max el	370 Jan 11 j 21:57	11°♎05'38	18°14'45	asc. node	370 Dec 28 j 07:43	26°♎14'32	
retrograde	370 Jan 18 j 09:33	14°♎34'16		retrograde	371 Jan 02 j 01:41	28°♎12'52	
evening set	370 Jan 21 j 07:07	13°♎50'13		evening set	371 Jan 05 j 04:36	27°♎17'45	
inferior conj	370 Jan 27 j 09:48	8°♎30'09	3°47'37	inferior conj	371 Jan 10 j 23:29	21°♎39'50	3°32'41
minimum elong	370 Jan 27 j 08:57	8°♎32'29	3°47'34	minimum elong	371 Jan 10 j 21:21	21°♎46'18	3°32'21
min. Earth dist.	370 Jan 29 j 22:20	5°♎44'38	0.63315 AU	min. Earth dist.	371 Jan 12 j 20:41	19°♎23'52	0.64948 AU
morning rise	370 Feb 02 j 09:57	2°♎28'16		morning rise	371 Jan 16 j 13:40	15°♎31'49	
	370 Feb 07 j 03:59	30°♎		direct	371 Jan 23 j 07:36	12°♎39'23	
direct	370 Feb 09 j 09:24	29°♎43'47		morning max el	371 Feb 05 j 15:03	20°♎24'44	27°06'42
	370 Feb 11 j 16:40	0°♎		desc. node	371 Feb 05 j 17:06	20°♎29'53	
desc. node	370 Feb 18 j 20:05	3°♎42'50			371 Feb 13 j 21:49	0°♎	
morning max el	370 Feb 23 j 05:30	7°♎36'38	27°42'31		371 Mar 05 j 12:29	0°♎	
	370 Mar 12 j 10:52	0°♎		morning set	371 Mar 13 j 05:16	14°♎11'42	
	370 Mar 29 j 09:16	0°♎		max. Earth dist.	371 Mar 17 j 19:21	23°♎18'24	1.34003 AU
morning set	370 Mar 29 j 15:32	0°♎31'20		superior conj	371 Mar 21 j 11:33	0°♎54'40	-0°48'50
max. Earth dist.	370 Apr 03 j 22:47	11°♎27'23	1.33014 AU	minimum elong	371 Mar 21 j 13:55	1°♎07'05	0°48'21
					371 Mar 21 j 01:07	0°♎	
superior conj	370 Apr 06 j 08:13	16°♎33'58	-0°21'45	asc. node	371 Mar 26 j 07:01	11°♎05'29	
minimum elong	370 Apr 06 j 09:16	16°♎39'36	0°21'31	evening rise	371 Mar 28 j 20:29	16°♎29'10	
asc. node	370 Apr 08 j 09:58	21°♎02'18			371 Apr 04 j 15:57	0°♎	
	370 Apr 12 j 13:54	0°♎		evening max el	371 Apr 18 j 06:49	19°♎27'01	21°44'07
evening rise	370 Apr 13 j 09:58	1°♎46'23		retrograde	371 Apr 30 j 17:05	25°♎31'19	
	370 Apr 29 j 02:35	0°♎		evening set	371 May 03 j 05:54	25°♎16'54	
evening max el	370 May 06 j 11:58	8°♎46'51	23°17'31	desc. node	371 May 04 j 16:19	24°♎56'39	
desc. node	370 May 17 j 19:18	15°♎20'50		inferior conj	371 May 12 j 15:54	21°♎14'04	-2°14'26
retrograde	370 May 20 j 00:43	15°♎32'07		minimum elong	371 May 12 j 09:53	21°♎22'31	2°12'27
evening set	370 May 23 j 16:48	15°♎02'31		min. Earth dist.	371 May 12 j 10:36	21°♎21'30	0.55017 AU
min. Earth dist.	370 May 30 j 21:53	11°♎46'09	0.55772 AU	morning rise	371 May 21 j 14:50	17°♎17'25	
inferior conj	370 Jun 01 j 19:09	10°♎39'31	-3°48'56	direct	371 May 24 j 15:25	16°♎57'15	
minimum elong	370 Jun 01 j 12:04	10°♎50'00	3°47'19	morning max el	371 Jun 05 j 20:50	22°♎42'57	21°49'05
morning rise	370 Jun 10 j 10:03	6°♎44'44			371 Jun 12 j 04:49	0°♎	
direct	370 Jun 13 j 03:20	6°♎26'46		asc. node	371 Jun 22 j 06:15	16°♎47'37	
morning max el	370 Jun 23 j 17:26	11°♎20'37	20°21'59	morning set	371 Jun 26 j 17:13	25°♎46'37	
asc. node	370 Jul 05 j 09:12	27°♎29'53			371 Jun 28 j 17:37	0°♎	
	370 Jul 06 j 18:06	0°♎		superior conj	371 Jul 04 j 00:11	11°♎07'48	1°36'50
morning set	370 Jul 12 j 08:02	10°♎57'59		minimum elong	371 Jul 03 j 22:09	10°♎57'06	1°36'40
				max. Earth dist.	371 Jul 07 j 14:49	18°♎34'53	1.34791 AU
superior conj	370 Jul 19 j 23:52	26°♎40'35	1°45'04				
minimum elong	370 Jul 19 j 22:51	26°♎35'26	1°45'03				
	370 Jul 21 j 15:32	0°♎					

evening rise	371 Jul 12 j 03:55	27°☿34'48		morning set	372 Jun 10 j 04:37	10°♄43'08	
	371 Jul 13 j 10:20	0°♄					
	371 Jul 31 j 09:04	0°♄		superior conj	372 Jun 17 j 06:27	25°♄53'08	1°23'12
desc. node	371 Jul 31 j 15:38	0°♄23'49		minimum elong	372 Jun 17 j 03:59	25°♄39'55	1°22'52
evening max el	371 Aug 16 j 06:51	19°♄37'43	26°54'12		372 Jun 19 j 04:42	0°☿	
retrograde	371 Aug 29 j 10:14	26°♄54'50		max. Earth dist.	372 Jun 19 j 14:15	0°☿50'39	1.33602 AU
evening set	371 Sep 05 j 04:47	24°♄10'13		evening rise	372 Jun 24 j 19:41	11°☿36'36	
min. Earth dist.	371 Sep 09 j 03:18	20°♄12'55	0.65569 AU		372 Jul 04 j 17:02	0°♄	
inferior conj	371 Sep 11 j 00:14	18°♄02'16	-2°21'56	desc. node	372 Jul 17 j 12:39	19°♄45'57	
minimum elong	371 Sep 11 j 03:51	17°♄51'45	2°20'36		372 Jul 25 j 21:03	0°♄	
morning rise	371 Sep 17 j 03:31	12°♄22'27		evening max el	372 Jul 28 j 18:27	2°♄56'25	27°22'28
asc. node	371 Sep 18 j 05:28	11°♄55'12		retrograde	372 Aug 11 j 07:30	10°♄15'22	
direct	371 Sep 19 j 23:32	11°♄38'12		evening set	372 Aug 18 j 10:35	7°♄32'41	
morning max el	371 Sep 26 j 13:27	15°♄13'29	18°19'42	min. Earth dist.	372 Aug 22 j 03:11	4°♄10'39	0.64173 AU
	371 Oct 07 j 05:47	0°♄		inferior conj	372 Aug 24 j 13:07	1°♄37'29	-3°15'25
morning set	371 Oct 15 j 16:57	13°♄43'36		minimum elong	372 Aug 24 j 17:46	1°♄25'08	3°13'59
	371 Oct 25 j 19:02	0°♄			372 Aug 26 j 02:41	30°♄	
desc. node	371 Oct 27 j 14:54	2°♄54'28		morning rise	372 Aug 31 j 01:53	26°♄13'24	
				direct	372 Sep 02 j 16:33	25°♄38'49	
superior conj	371 Oct 30 j 17:58	7°♄51'34	-0°20'33	asc. node	372 Sep 04 j 02:29	25°♄49'05	
minimum elong	371 Oct 30 j 15:17	7°♄40'58	0°20'10	morning max el	372 Sep 09 j 05:00	29°♄05'23	17°57'36
max. Earth dist.	371 Nov 01 j 20:19	11°♄09'52	1.45015 AU		372 Sep 10 j 01:49	0°♄	
	371 Nov 13 j 20:51	0°♄		morning set	372 Sep 26 j 09:28	25°♄21'41	
evening rise	371 Nov 16 j 02:50	3°♄31'19			372 Sep 29 j 02:50	0°♄	
greatest brilliancy	371 Nov 27 j 05:06	20°♄48'21	-0.7m				
	371 Dec 03 j 09:48	0°♄		superior conj	372 Oct 09 j 09:21	17°♄04'11	0°27'07
evening max el	371 Dec 09 j 18:11	7°♄56'55	19°22'48	minimum elong	372 Oct 09 j 12:20	17°♄16'19	0°26'42
asc. node	371 Dec 15 j 04:46	11°♄47'49		desc. node	372 Oct 13 j 11:56	23°♄41'08	
retrograde	371 Dec 16 j 21:50	12°♄04'04		max. Earth dist.	372 Oct 14 j 14:36	25°♄27'21	1.44410 AU
evening set	371 Dec 20 j 07:34	10°♄56'19			372 Oct 17 j 11:31	0°♄	
inferior conj	371 Dec 25 j 21:07	5°♄02'57	3°05'16	evening rise	372 Oct 25 j 14:08	12°♄37'11	
minimum elong	371 Dec 25 j 18:24	5°♄11'43	3°04'37		372 Nov 06 j 00:37	0°♄	
min. Earth dist.	371 Dec 27 j 03:37	3°♄24'32	0.66200 AU	evening max el	372 Nov 21 j 21:53	21°♄25'36	20°20'23
	371 Dec 30 j 00:48	30°♄		retrograde	372 Nov 29 j 19:28	26°♄04'31	
morning rise	371 Dec 31 j 04:59	28°♄51'26		asc. node	372 Dec 01 j 01:46	25°♄55'28	
direct	372 Jan 06 j 11:50	26°♄04'45		evening set	372 Dec 03 j 13:49	24°♄42'20	
	372 Jan 15 j 04:24	0°♄		inferior conj	372 Dec 09 j 00:02	18°♄36'19	2°28'35
morning max el	372 Jan 19 j 00:20	3°♄29'24	26°03'58	minimum elong	372 Dec 08 j 21:21	18°♄45'22	2°27'44
desc. node	372 Jan 23 j 14:07	8°♄30'42		min. Earth dist.	372 Dec 09 j 17:22	17°♄37'46	0.67061 AU
	372 Feb 08 j 05:18	0°♄		morning rise	372 Dec 14 j 04:43	12°♄23'09	
morning set	372 Feb 24 j 05:33	27°♄07'03		direct	372 Dec 19 j 21:20	9°♄52'06	
	372 Feb 25 j 18:31	0°♄		morning max el	372 Dec 31 j 08:45	16°♄42'22	24°43'42
max. Earth dist.	372 Feb 28 j 04:06	4°♄35'15	1.35448 AU	desc. node	373 Jan 09 j 11:10	27°♄24'08	
					373 Jan 11 j 10:08	0°♄	
superior conj	372 Mar 04 j 07:41	14°♄48'46	-1°14'52		373 Jan 31 j 04:58	0°♄	
minimum elong	372 Mar 04 j 11:10	15°♄06'26	1°14'18	morning set	373 Feb 05 j 11:03	9°♄02'19	
	372 Mar 11 j 16:46	0°♄		max. Earth dist.	373 Feb 09 j 02:54	15°♄37'34	1.37304 AU
evening rise	372 Mar 12 j 03:43	0°♄56'13					
asc. node	372 Mar 12 j 04:03	0°♄57'57		superior conj	373 Feb 15 j 17:30	28°♄07'32	-1°37'52
	372 Mar 29 j 20:48	0°♄		minimum elong	373 Feb 15 j 21:28	28°♄26'47	1°37'25
evening max el	372 Mar 30 j 11:44	0°♄36'57	20°22'47		373 Feb 16 j 16:32	0°♄	
retrograde	372 Apr 10 j 06:21	5°♄48'16		evening rise	373 Feb 24 j 05:26	15°♄00'57	
evening set	372 Apr 12 j 08:58	5°♄37'11		asc. node	373 Feb 27 j 01:05	20°♄34'43	
desc. node	372 Apr 20 j 13:20	2°♄11'13			373 Mar 04 j 03:18	0°♄	
inferior conj	372 Apr 21 j 11:11	1°♄39'24	-0°15'44	evening max el	373 Mar 13 j 03:53	12°♄24'54	19°19'22
minimum elong	372 Apr 21 j 10:27	1°♄40'28	0°15'28	retrograde	373 Mar 22 j 06:09	16°♄47'37	
transit middle	372 Apr 21 j 10:27	1°♄40'28	0°15'28	evening set	373 Mar 24 j 10:12	16°♄33'45	
transit begin	372 Apr 21 j 09:31	1°♄41'50		inferior conj	373 Apr 01 j 18:59	12°♄25'14	1°33'17
transit end	372 Apr 21 j 11:23	1°♄39'06		minimum elong	373 Apr 01 j 22:30	12°♄19'24	1°32'10
min. Earth dist.	372 Apr 23 j 00:01	0°♄45'35	0.55210 AU	min. Earth dist.	373 Apr 04 j 14:44	10°♄33'41	0.56307 AU
	372 Apr 24 j 08:05	30°♄		desc. node	373 Apr 07 j 10:22	8°♄53'47	
morning rise	372 Apr 30 j 10:31	27°♄22'32		morning rise	373 Apr 10 j 08:00	7°♄36'01	
direct	372 May 04 j 03:30	26°♄52'40		direct	373 Apr 15 j 01:46	6°♄44'33	
	372 May 13 j 08:01	0°♄		morning max el	373 Apr 29 j 05:43	13°♄57'15	25°08'02
morning max el	372 May 17 j 15:07	3°♄28'08	23°28'25		373 May 11 j 20:20	0°♄	
	372 Jun 04 j 21:10	0°♄		morning set	373 May 25 j 16:32	25°♄41'24	
asc. node	372 Jun 08 j 03:17	6°♄27'27		asc. node	373 May 26 j 00:19	26°♄22'31	

	373 May 27 j 17:05	0°♊		superior conj	374 May 17 j 03:54	25°♌47'39	0°43'51
				minimum elong	374 May 17 j 02:07	25°♌37'47	0°43'29
superior conj	373 Jun 01 j 16:18	10°♊48'31	1°05'15	max. Earth dist.	374 May 17 j 09:19	26°♌17'23	1.32377 AU
minimum elong	373 Jun 01 j 13:57	10°♊35'43	1°04'50		374 May 19 j 01:56	0°♊	
max. Earth dist.	373 Jun 02 j 21:33	13°♊27'43	1.32802 AU	evening rise	374 May 24 j 02:44	10°♊48'23	
evening rise	373 Jun 08 j 20:14	26°♊04'09			374 Jun 03 j 00:51	0°♌	
	373 Jun 10 j 18:47	0°♌		desc. node	374 Jun 21 j 06:42	25°♌54'49	
	373 Jun 28 j 03:58	0°♎		evening max el	374 Jun 23 j 06:32	27°♌54'29	26°45'47
desc. node	373 Jul 04 j 09:41	8°♎22'37			374 Jun 25 j 14:57	0°♎	
evening max el	373 Jul 11 j 03:12	15°♎45'52	27°20'38	retrograde	374 Jul 07 j 05:46	5°♎09'47	
retrograde	373 Jul 24 j 22:14	23°♎03'16		evening set	374 Jul 14 j 01:16	3°♎09'22	
evening set	373 Aug 01 j 02:52	20°♎34'49		min. Earth dist.	374 Jul 17 j 20:11	0°♎31'06	0.60443 AU
min. Earth dist.	373 Aug 04 j 16:47	17°♎41'27	0.62435 AU		374 Jul 18 j 11:40	30°♌♌	
inferior conj	373 Aug 07 j 15:13	14°♎55'29	-4°02'16	inferior conj	374 Jul 21 j 03:11	27°♌48'00	-4°36'13
minimum elong	373 Aug 07 j 20:01	14°♎44'09	4°01'12	minimum elong	374 Jul 21 j 06:27	27°♌41'11	4°35'51
morning rise	373 Aug 14 j 14:30	9°♎50'39		morning rise	374 Jul 28 j 13:33	23°♌05'04	
direct	373 Aug 17 j 02:17	9°♎22'51		direct	374 Jul 31 j 00:44	22°♌41'52	
asc. node	373 Aug 21 j 23:31	11°♎12'18		morning max el	374 Aug 07 j 08:37	26°♌16'54	18°08'32
morning max el	373 Aug 23 j 20:23	12°♎48'58	17°53'33	asc. node	374 Aug 08 j 20:35	27°♌51'22	
	373 Sep 04 j 11:36	0°♐			374 Aug 10 j 14:30	0°♎	
morning set	373 Sep 08 j 23:48	8°♐01'56		morning set	374 Aug 23 j 06:09	21°♎28'01	
					374 Aug 27 j 19:40	0°♐	
superior conj	373 Sep 20 j 03:05	27°♐35'11	1°05'06	superior conj	374 Sep 01 j 23:03	9°♐23'39	1°30'17
minimum elong	373 Sep 20 j 08:00	27°♐56'05	1°04'30	minimum elong	374 Sep 02 j 02:55	9°♐41'01	1°29'56
	373 Sep 21 j 13:17	0°♑		max. Earth dist.	374 Sep 09 j 14:03	22°♐39'27	1.41403 AU
max. Earth dist.	373 Sep 27 j 05:18	9°♑23'01	1.43149 AU		374 Sep 14 j 00:30	0°♑	
desc. node	373 Sep 30 j 08:59	14°♑27'57		evening rise	374 Sep 14 j 20:45	1°♑22'06	
evening rise	373 Oct 04 j 22:20	21°♑39'22		desc. node	374 Sep 17 j 06:01	5°♑11'30	
	373 Oct 10 j 08:26	0°♒			374 Oct 03 j 19:40	0°♒	
	373 Oct 31 j 12:06	0°♈		evening max el	374 Oct 18 j 12:20	18°♒24'32	22°48'05
evening max el	373 Nov 04 j 19:48	4°♈54'34	21°30'12	retrograde	374 Oct 28 j 11:32	24°♒19'51	
retrograde	373 Nov 13 j 16:35	10°♈10'55		evening set	374 Nov 02 j 04:51	22°♒24'09	
evening set	373 Nov 17 j 21:30	8°♈32'35		asc. node	374 Nov 04 j 19:50	19°♒40'35	
asc. node	373 Nov 17 j 22:47	8°♈30'02		inferior conj	374 Nov 07 j 13:16	16°♒03'15	0°55'43
inferior conj	373 Nov 23 j 06:04	2°♈17'13	1°44'52	minimum elong	374 Nov 07 j 12:00	16°♒07'37	0°55'11
minimum elong	373 Nov 23 j 03:54	2°♈24'42	1°44'03	min. Earth dist.	374 Nov 07 j 08:16	16°♒20'33	0.67701 AU
min. Earth dist.	373 Nov 23 j 11:43	1°♈57'43	0.67551 AU	morning rise	374 Nov 12 j 19:03	9°♒52'39	
	373 Nov 24 j 22:20	30°♒♒		direct	374 Nov 17 j 05:36	8°♒05'13	
morning rise	373 Nov 28 j 10:09	26°♒04'18		morning max el	374 Nov 26 j 07:02	13°♒25'11	21°50'07
direct	373 Dec 03 j 11:30	23°♒54'16			374 Dec 09 j 10:40	0°♈	
morning max el	373 Dec 13 j 17:58	0°♈00'39	23°16'02	desc. node	374 Dec 14 j 05:16	6°♈52'46	
	373 Dec 13 j 17:43	0°♈		morning set	374 Dec 28 j 14:52	28°♈57'03	
desc. node	373 Dec 27 j 08:13	16°♈55'10			374 Dec 29 j 06:35	0°♉	
	374 Jan 05 j 07:08	0°♉		max. Earth dist.	375 Jan 03 j 20:49	9°♉08'12	1.41488 AU
morning set	374 Jan 17 j 15:34	19°♉41'51					
max. Earth dist.	374 Jan 21 j 22:09	26°♉59'36	1.39405 AU	superior conj	375 Jan 11 j 12:54	22°♉14'56	-2°02'32
	374 Jan 23 j 15:21	0°♊		minimum elong	375 Jan 11 j 13:09	22°♉16'04	2°02'31
superior conj	374 Jan 29 j 12:57	10°♊40'35	-1°55'02		375 Jan 15 j 21:16	0°♊	
minimum elong	374 Jan 29 j 16:05	10°♊55'06	1°54'51	evening rise	375 Jan 22 j 04:42	11°♊33'40	
evening rise	374 Feb 07 j 22:55	28°♊36'20		asc. node	375 Jan 31 j 19:11	28°♊36'32	
	374 Feb 08 j 16:18	0°♋			375 Feb 01 j 16:18	0°♋	
asc. node	374 Feb 13 j 22:08	9°♋50'09		evening max el	375 Feb 07 j 13:56	7°♋38'19	18°12'21
evening max el	374 Feb 24 j 05:37	24°♋48'13	18°35'51	retrograde	375 Feb 14 j 12:07	11°♋07'20	
retrograde	374 Mar 04 j 00:10	28°♋36'08		evening set	375 Feb 17 j 02:22	10°♋38'46	
evening set	374 Mar 06 j 09:16	28°♋16'00		inferior conj	375 Feb 23 j 23:43	5°♋51'01	3°33'49
inferior conj	374 Mar 13 j 23:03	23°♋49'04	2°50'45	minimum elong	375 Feb 24 j 02:08	5°♋45'35	3°33'31
minimum elong	374 Mar 14 j 03:11	23°♋41'02	2°49'48	min. Earth dist.	375 Feb 27 j 07:49	2°♋52'08	0.60152 AU
min. Earth dist.	374 Mar 17 j 08:33	21°♋12'35	0.58066 AU	morning rise	375 Mar 02 j 23:50	0°♋08'12	
morning rise	374 Mar 21 j 18:15	18°♋28'23			375 Mar 03 j 05:15	30°♒♒	
desc. node	374 Mar 25 j 07:24	17°♋16'05		direct	375 Mar 09 j 14:36	28°♒04'51	
direct	374 Mar 27 j 13:57	17°♋02'57		desc. node	375 Mar 12 j 04:27	28°♒22'43	
morning max el	374 Apr 10 j 22:41	24°♋38'55	26°32'29		375 Mar 16 j 07:45	0°♋	
	374 Apr 15 j 20:32	0°♌		morning max el	375 Mar 23 j 21:14	5°♋53'06	27°28'11
	374 May 04 j 21:22	0°♍			375 Apr 10 j 21:35	0°♌	
morning set	374 May 10 j 03:22	10°♍35'50		morning set	375 Apr 24 j 11:18	25°♌19'14	
asc. node	374 May 12 j 21:24	16°♍27'40			375 Apr 26 j 16:45	0°♍	

asc. node	375 Apr 29 j 18:29	6°♄37'27			376 Apr 02 j 15:12	0°♄	
max. Earth dist.	375 Apr 30 j 21:45	9°♄06'24	1.32319 AU	morning set	376 Apr 07 j 14:17	9°♄44'48	
				max. Earth dist.	376 Apr 13 j 07:07	21°♄42'20	1.32646 AU
superior conj	375 May 01 j 15:29	10°♄43'35	0°19'45				
minimum elong	375 May 01 j 14:36	10°♄38'44	0°19'34	superior conj	376 Apr 15 j 01:20	25°♄30'38	-0°06'16
evening rise	375 May 08 j 12:48	25°♄40'41		minimum elong	376 Apr 15 j 01:38	25°♄32'13	0°06'12
	375 May 10 j 14:34	0°♄		behind sun begin	376 Apr 14 j 20:51	25°♄06'18	
	375 May 28 j 02:22	0°♄		behind sun end	376 Apr 15 j 06:24	25°♄58'09	
evening max el	375 Jun 05 j 03:06	9°♄17'39	25°40'11	asc. node	376 Apr 15 j 15:32	26°♄47'46	
desc. node	375 Jun 08 j 03:43	11°♄55'50			376 Apr 17 j 02:51	0°♄	
retrograde	375 Jun 19 j 04:18	16°♄28'45		evening rise	376 Apr 22 j 00:30	10°♄34'23	
evening set	375 Jun 25 j 01:30	15°♄06'33			376 May 02 j 00:24	0°♄	
min. Earth dist.	375 Jun 29 j 15:25	12°♄25'26	0.58385 AU	evening max el	376 May 16 j 18:23	20°♄03'44	24°12'28
inferior conj	375 Jul 02 j 21:26	10°♄05'39	-4°47'35	desc. node	376 May 25 j 00:45	25°♄51'04	
minimum elong	375 Jul 02 j 21:00	10°♄06'26	4°47'35	retrograde	376 May 30 j 14:56	27°♄02'12	
morning rise	375 Jul 10 j 19:00	5°♄45'03		evening set	376 Jun 04 j 03:07	26°♄17'01	
direct	375 Jul 13 j 07:30	5°♄24'50		min. Earth dist.	376 Jun 10 j 05:34	23°♄17'09	0.56571 AU
morning max el	375 Jul 21 j 14:34	9°♄20'13	18°43'48	inferior conj	376 Jun 12 j 19:34	21°♄40'13	-4°23'25
asc. node	375 Jul 26 j 17:41	15°♄31'06		minimum elong	376 Jun 12 j 14:18	21°♄48'30	4°22'37
	375 Aug 04 j 03:57	0°♄		morning rise	376 Jun 21 j 04:15	17°♄38'25	
morning set	375 Aug 06 j 23:59	5°♄28'14		direct	376 Jun 23 j 19:33	17°♄19'55	
				morning max el	376 Jul 03 j 11:15	21°♄48'42	19°40'12
superior conj	375 Aug 15 j 16:08	22°♄15'17	1°43'29		376 Jul 10 j 03:16	0°♄	
minimum elong	375 Aug 15 j 17:56	22°♄23'48	1°43'25	asc. node	376 Jul 12 j 14:45	3°♄57'24	
	375 Aug 19 j 20:22	0°♄		morning set	376 Jul 21 j 01:45	19°♄52'54	
max. Earth dist.	375 Aug 22 j 18:04	5°♄12'30	1.39407 AU		376 Jul 26 j 01:54	0°♄	
evening rise	375 Aug 26 j 19:01	12°♄12'23		superior conj	376 Jul 29 j 00:44	5°♄53'52	1°46'49
desc. node	375 Sep 04 j 03:02	25°♄48'14		minimum elong	376 Jul 29 j 00:36	5°♄53'10	1°46'50
	375 Sep 06 j 20:04	0°♄		max. Earth dist.	376 Aug 03 j 21:50	17°♄13'01	1.37419 AU
	375 Sep 29 j 03:43	0°♄		evening rise	376 Aug 07 j 17:15	24°♄10'57	
evening max el	375 Oct 01 j 01:23	1°♄58'18	24°08'13		376 Aug 11 j 00:47	0°♄	
retrograde	375 Oct 12 j 03:01	8°♄28'12		desc. node	376 Aug 21 j 00:03	16°♄13'13	
evening set	375 Oct 17 j 10:15	6°♄14'59			376 Aug 30 j 12:11	0°♄	
min. Earth dist.	375 Oct 22 j 04:33	0°♄44'28	0.67533 AU	evening max el	376 Sep 12 j 13:08	15°♄35'30	25°23'37
inferior conj	375 Oct 22 j 19:54	29°♄52'34	0°02'37	retrograde	376 Sep 24 j 14:00	22°♄31'21	
minimum elong	375 Oct 22 j 19:50	29°♄52'47	0°02'34	evening set	376 Sep 30 j 11:54	20°♄02'01	
transit middle	375 Oct 22 j 19:50	29°♄52'47	0°02'34	min. Earth dist.	376 Oct 04 j 22:04	15°♄06'44	0.67046 AU
transit begin	375 Oct 22 j 17:09	0°♄01'54		inferior conj	376 Oct 06 j 00:11	13°♄42'14	-0°53'05
transit end	375 Oct 22 j 22:32	29°♄43'41		minimum elong	376 Oct 06 j 01:31	13°♄37'53	0°52'30
asc. node	375 Oct 22 j 16:53	0°♄02'47		asc. node	376 Oct 08 j 13:56	10°♄31'30	
	375 Oct 22 j 17:42	30°♄		morning rise	376 Oct 11 j 15:18	7°♄44'16	
morning rise	375 Oct 28 j 05:25	23°♄46'52		direct	376 Oct 15 j 00:59	6°♄37'17	
direct	375 Nov 01 j 02:35	22°♄20'58		morning max el	376 Oct 22 j 06:26	10°♄43'10	19°28'55
morning max el	375 Nov 09 j 02:53	26°♄59'19	20°32'59		376 Nov 05 j 11:59	0°♄	
	375 Nov 11 j 20:34	0°♄		morning set	376 Nov 15 j 14:09	15°♄30'55	
desc. node	375 Dec 01 j 02:18	27°♄09'37		desc. node	376 Nov 16 j 23:19	17°♄39'35	
	375 Dec 02 j 23:04	0°♄			376 Nov 24 j 21:02	0°♄	
morning set	375 Dec 07 j 15:11	7°♄11'32		max. Earth dist.	376 Nov 28 j 16:41	6°♄01'19	1.44500 AU
max. Earth dist.	375 Dec 17 j 03:05	22°♄12'24	1.43266 AU				
	375 Dec 21 j 21:41	0°♄		superior conj	376 Dec 02 j 08:45	11°♄51'37	-1°30'39
superior conj	375 Dec 23 j 12:10	2°♄39'36	-1°55'40	minimum elong	376 Dec 02 j 00:28	11°♄18'28	1°29'52
minimum elong	375 Dec 23 j 07:36	2°♄20'37	1°55'26		376 Dec 13 j 12:03	0°♄	
evening rise	376 Jan 04 j 18:44	23°♄45'00		evening rise	376 Dec 16 j 12:35	5°♄01'59	
	376 Jan 08 j 08:02	0°♄			377 Jan 01 j 03:18	0°♄	
asc. node	376 Jan 18 j 16:13	16°♄45'09		evening max el	377 Jan 04 j 14:18	4°♄07'06	18°23'26
evening max el	376 Jan 22 j 01:50	20°♄47'18	18°08'25	asc. node	377 Jan 04 j 13:15	4°♄04'25	
retrograde	376 Jan 28 j 14:24	24°♄12'00		retrograde	377 Jan 11 j 02:39	7°♄40'19	
evening set	376 Jan 31 j 09:22	23°♄33'47		evening set	377 Jan 14 j 02:29	6°♄51'32	
inferior conj	376 Feb 06 j 17:53	18°♄25'13	3°48'46	inferior conj	377 Jan 20 j 01:30	1°♄23'31	3°43'01
minimum elong	376 Feb 06 j 18:06	18°♄24'40	3°48'45	minimum elong	377 Jan 20 j 00:00	1°♄27'46	3°42'52
min. Earth dist.	376 Feb 09 j 14:55	15°♄28'55	0.62232 AU		377 Jan 21 j 06:32	30°♄	
morning rise	376 Feb 13 j 01:40	12°♄28'51		min. Earth dist.	377 Jan 22 j 07:28	28°♄49'27	0.64061 AU
direct	376 Feb 20 j 01:01	9°♄55'24		morning rise	377 Jan 25 j 20:58	25°♄18'54	
desc. node	376 Feb 27 j 01:30	12°♄08'40		direct	377 Feb 01 j 19:01	22°♄29'24	
morning max el	376 Mar 05 j 01:39	17°♄48'01	27°47'48	desc. node	377 Feb 12 j 22:32	27°♄59'31	
	376 Mar 15 j 06:51	0°♄			377 Feb 15 j 02:14	0°♄	

morning max el	377 Feb 15 j 10:05	0° \approx 19'27	27°31'07	direct	378 Jan 15 j 19:35	5° \approx 38'25	
	377 Mar 09 j 06:55	0° H		morning max el	378 Jan 28 j 19:55	13° \approx 16'22	26°42'52
morning set	377 Mar 22 j 09:47	23° H 44'33		desc. node	378 Jan 30 j 19:33	15° \approx 20'53	
	377 Mar 25 j 12:26	0° Y			378 Feb 11 j 09:05	0° \approx	
max. Earth dist.	377 Mar 27 j 09:35	3° Y 53'20	1.33382 AU		378 Mar 01 j 22:25	0° H	
				morning set	378 Mar 05 j 18:20	7° H 07'11	
superior conj	377 Mar 30 j 07:39	10° Y 02'54	-0°33'16	max. Earth dist.	378 Mar 10 j 01:36	15° H 30'29	1.34562 AU
minimum elong	377 Mar 30 j 09:16	10° Y 11'30	0°32'55				
asc. node	377 Apr 02 j 12:34	16° Y 54'52		superior conj	378 Mar 14 j 08:13	24° H 12'50	-1°00'06
evening rise	377 Apr 06 j 12:00	25° Y 23'21		minimum elong	378 Mar 14 j 11:06	24° H 27'48	0°59'35
	377 Apr 08 j 17:18	0° B			378 Mar 17 j 02:45	0° Y	
	377 Apr 27 j 18:44	0° II		asc. node	378 Mar 20 j 09:36	6° Y 53'51	
evening max el	377 Apr 28 j 09:48	0° II 37'13	22°36'55	evening rise	378 Mar 21 j 21:22	10° Y 00'14	
retrograde	377 May 11 j 12:53	7° II 06'55			378 Apr 01 j 12:14	0° B	
desc. node	377 May 11 j 21:46	7° II 06'37		evening max el	378 Apr 10 j 08:20	11° B 27'06	21°07'33
evening set	377 May 14 j 15:51	6° II 45'30		retrograde	378 Apr 22 j 02:46	17° B 10'04	
min. Earth dist.	377 May 22 j 17:51	3° II 14'37	0.55343 AU	evening set	378 Apr 24 j 09:17	16° B 58'02	
inferior conj	377 May 23 j 23:20	2° II 32'38	-3°13'42	desc. node	378 Apr 28 j 18:48	15° B 34'15	
minimum elong	377 May 23 j 15:58	2° II 43'10	3°11'38	inferior conj	378 May 03 j 17:37	12° B 59'04	-1°25'02
	377 May 28 j 19:11	30° R B		minimum elong	378 May 03 j 13:36	13° B 04'43	1°23'37
morning rise	377 Jun 01 j 18:14	28° B 39'32		min. Earth dist.	378 May 04 j 06:34	12° B 40'46	0.54976 AU
direct	377 Jun 04 j 14:08	28° B 21'05		morning rise	378 May 12 j 18:00	8° B 56'18	
	377 Jun 10 j 22:13	0° II		direct	378 May 16 j 00:05	8° B 33'25	
morning max el	377 Jun 15 j 20:57	3° II 35'49	20°57'03	morning max el	378 May 28 j 20:06	14° B 40'49	22°30'31
asc. node	377 Jun 29 j 11:48	22° II 59'18			378 Jun 09 j 13:43	0° II	
	377 Jul 03 j 02:44	0° B		asc. node	378 Jun 16 j 08:50	12° II 27'03	
morning set	377 Jul 05 j 08:53	4° B 35'08		morning set	378 Jun 19 j 19:13	19° II 27'40	
					378 Jun 24 j 18:25	0° B	
superior conj	377 Jul 12 j 20:24	20° B 06'51	1°42'20				
minimum elong	377 Jul 12 j 18:52	19° B 58'59	1°42'15	superior conj	378 Jun 26 j 23:34	4° B 42'40	1°31'39
max. Earth dist.	377 Jul 17 j 06:54	29° B 03'56	1.35652 AU	minimum elong	378 Jun 26 j 21:16	4° B 30'33	1°31'24
	377 Jul 17 j 18:17	0° Q		max. Earth dist.	378 Jun 30 j 00:44	11° B 05'59	1.34233 AU
evening rise	377 Jul 21 j 11:21	7° Q 07'47		evening rise	378 Jul 04 j 20:24	20° B 48'52	
	377 Aug 03 j 17:37	0° H			378 Jul 09 j 16:48	0° Q	
desc. node	377 Aug 07 j 21:05	6° H 20'45		desc. node	378 Jul 25 j 18:08	26° Q 02'16	
evening max el	377 Aug 26 j 00:58	29° H 12'23	26°26'30		378 Jul 28 j 15:15	0° H	
	377 Aug 26 j 21:03	0° B		evening max el	378 Aug 08 j 12:47	12° H 39'53	27°09'28
retrograde	377 Sep 07 j 20:01	6° B 24'14		retrograde	378 Aug 21 j 20:45	19° H 58'54	
evening set	377 Sep 14 j 07:52	3° B 42'58		evening set	378 Aug 28 j 19:42	17° H 13'21	
	377 Sep 17 j 22:31	30° R H		min. Earth dist.	378 Sep 01 j 15:21	13° H 31'50	0.65021 AU
min. Earth dist.	377 Sep 18 j 10:25	29° H 24'38	0.66218 AU	inferior conj	378 Sep 03 j 17:53	11° H 10'26	-2°45'09
inferior conj	377 Sep 20 j 00:14	27° H 29'42	-1°49'41	minimum elong	378 Sep 03 j 22:01	10° H 58'52	2°43'43
minimum elong	377 Sep 20 j 03:03	27° H 21'08	1°48'34	morning rise	378 Sep 10 j 01:05	5° H 37'14	
asc. node	377 Sep 25 j 10:58	22° H 00'20		asc. node	378 Sep 12 j 08:00	4° H 58'36	
morning rise	377 Sep 25 j 22:39	21° H 42'34		direct	378 Sep 12 j 18:30	4° H 57'34	
direct	377 Sep 28 j 23:02	20° H 51'05		morning max el	378 Sep 19 j 07:00	8° H 28'04	18°08'13
morning max el	377 Oct 05 j 16:35	24° H 34'35	18°40'15		378 Oct 03 j 22:55	0° B	
	377 Oct 10 j 04:57	0° B		morning set	378 Oct 07 j 11:32	5° B 51'42	
morning set	377 Oct 26 j 10:25	24° B 58'38					
	377 Oct 29 j 14:14	0° H		superior conj	378 Oct 21 j 16:00	28° B 58'19	0°00'23
desc. node	377 Nov 03 j 20:20	8° H 18'51		minimum elong	378 Oct 21 j 16:02	28° B 58'28	0°00'23
				behind sun begin	378 Oct 21 j 05:15	28° B 15'30	
superior conj	377 Nov 11 j 11:11	20° H 18'12	-0°48'47	behind sun end	378 Oct 22 j 02:49	29° B 41'23	
minimum elong	377 Nov 11 j 04:58	19° H 53'47	0°48'00	desc. node	378 Oct 21 j 17:24	29° B 03'56	
max. Earth dist.	377 Nov 11 j 10:44	20° H 16'26	1.45043 AU		378 Oct 22 j 07:30	0° H	
	377 Nov 17 j 15:02	0° A		max. Earth dist.	378 Oct 25 j 05:32	4° H 37'18	1.44841 AU
evening rise	377 Nov 27 j 07:07	15° A 20'52		evening rise	378 Nov 07 j 03:26	24° H 46'55	
greatest brilliancy	377 Dec 05 j 01:30	27° A 45'01	-0.8m		378 Nov 10 j 12:20	0° A	
	377 Dec 06 j 11:37	0° B		greatest brilliancy	378 Nov 20 j 03:11	14° A 42'21	-0.7m
evening max el	377 Dec 19 j 00:50	17° B 32'27	18°56'18		378 Dec 01 j 08:51	0° B	
asc. node	377 Dec 22 j 10:16	20° B 20'47		evening max el	378 Dec 02 j 07:26	1° B 00'27	19°45'32
retrograde	377 Dec 25 j 20:56	21° B 24'51		asc. node	378 Dec 09 j 07:17	5° B 19'35	
evening set	377 Dec 29 j 02:36	20° B 24'26		retrograde	378 Dec 09 j 18:09	5° B 20'44	
inferior conj	378 Jan 03 j 18:55	14° B 39'19	3°22'20	evening set	378 Dec 13 j 07:14	4° B 07'10	
minimum elong	378 Jan 03 j 16:27	14° B 46'59	3°21'52		378 Dec 17 j 08:35	30° R A	
min. Earth dist.	378 Jan 05 j 09:35	12° B 39'01	0.65529 AU	inferior conj	378 Dec 18 j 19:08	28° A 07'50	2°50'42
morning rise	378 Jan 09 j 06:00	8° B 29'30		minimum elong	378 Dec 18 j 16:22	28° A 16'59	2°49'57

min. Earth dist.	378 Dec 19 j 19:49	26° ♄ 46'17	0.66608 AU	min. Earth dist.	379 Dec 03 j 11:56	11° ♄ 02'54	0.67311 AU
morning rise	378 Dec 24 j 01:16	21° ♄ 55'08		morning rise	379 Dec 08 j 03:45	5° ♄ 31'26	
direct	378 Dec 30 j 02:12	19° ♄ 14'12		direct	379 Dec 13 j 13:57	3° ♄ 08'37	
morning max el	379 Jan 11 j 05:03	26° ♄ 26'35	25°31'23	morning max el	379 Dec 24 j 13:22	9° ♄ 41'32	24°06'40
	379 Jan 14 j 12:23	0° ♄		desc. node	380 Jan 04 j 13:37	22° ♄ 57'38	
desc. node	379 Jan 17 j 16:34	3° ♄ 46'36			380 Jan 09 j 14:53	0° ♄	
	379 Feb 04 j 23:18	0° ♄			380 Jan 28 j 16:05	0° ♄	
morning set	379 Feb 16 j 11:25	19° ♄ 39'30		morning set	380 Jan 29 j 07:04	1° ♄ 04'32	
max. Earth dist.	379 Feb 20 j 05:39	26° ♄ 37'55	1.36190 AU	max. Earth dist.	380 Feb 02 j 01:26	7° ♄ 41'46	1.38182 AU
	379 Feb 21 j 23:59	0° ♄					
superior conj	379 Feb 26 j 00:24	7° ♄ 53'01	-1°25'08	superior conj	380 Feb 09 j 04:40	20° ♄ 53'46	-1°46'05
minimum elong	379 Feb 26 j 04:11	8° ♄ 11'57	1°24'36	minimum elong	380 Feb 09 j 08:29	21° ♄ 11'56	1°45'44
evening rise	379 Mar 06 j 02:35	24° ♄ 18'40		evening rise	380 Feb 13 j 21:23	0° ♄	
asc. node	379 Mar 07 j 06:38	26° ♄ 40'16		asc. node	380 Feb 18 j 01:09	8° ♄ 11'27	
	379 Mar 08 j 22:46	0° ♄			380 Feb 22 j 03:40	16° ♄ 08'30	
evening max el	379 Mar 23 j 18:04	22° ♄ 52'53	19°53'27	evening max el	380 Mar 01 j 10:01	0° ♄	
retrograde	379 Apr 02 j 19:17	27° ♄ 42'31		retrograde	380 Mar 05 j 14:42	4° ♄ 56'55	18°58'25
evening set	379 Apr 04 j 21:20	27° ♄ 30'58		retrograde	380 Mar 14 j 02:00	9° ♄ 02'24	
inferior conj	379 Apr 13 j 16:49	23° ♄ 30'10	0°33'26	evening set	380 Mar 16 j 08:08	8° ♄ 46'12	
minimum elong	379 Apr 13 j 18:17	23° ♄ 27'56	0°32'55	inferior conj	380 Mar 24 j 08:45	4° ♄ 30'47	2°10'29
desc. node	379 Apr 15 j 15:48	22° ♄ 18'12		minimum elong	380 Mar 24 j 12:56	4° ♄ 23'22	2°09'17
min. Earth dist.	379 Apr 15 j 20:44	22° ♄ 10'45	0.55573 AU	min. Earth dist.	380 Mar 27 j 12:43	2° ♄ 17'38	0.56997 AU
morning rise	379 Apr 22 j 12:56	18° ♄ 59'48			380 Mar 31 j 09:36	30° ♄	
direct	379 Apr 26 j 15:33	18° ♄ 22'28		morning rise	380 Apr 01 j 14:43	29° ♄ 27'23	
morning max el	379 May 10 j 12:14	25° ♄ 16'23	24°11'37	desc. node	380 Apr 01 j 12:49	29° ♄ 29'19	
	379 May 14 j 21:57	0° ♄		direct	380 Apr 06 j 20:12	28° ♄ 22'17	
	379 Jun 02 j 03:56	0° ♄			380 Apr 13 j 07:25	0° ♄	
asc. node	379 Jun 03 j 05:54	2° ♄ 13'46		morning max el	380 Apr 21 j 03:02	5° ♄ 46'48	25°46'38
morning set	379 Jun 04 j 07:01	4° ♄ 25'09			380 May 08 j 18:44	0° ♄	
				morning set	380 May 18 j 18:41	19° ♄ 22'15	
superior conj	379 Jun 11 j 07:37	19° ♄ 32'58	1°16'04	asc. node	380 May 20 j 02:58	22° ♄ 13'38	
minimum elong	379 Jun 11 j 05:09	19° ♄ 19'35	1°15'41		380 May 23 j 17:02	0° ♄	
max. Earth dist.	379 Jun 13 j 03:34	23° ♄ 29'37	1.33211 AU	superior conj	380 May 25 j 18:28	4° ♄ 30'47	0°56'32
	379 Jun 16 j 05:23	0° ♄		minimum elong	380 May 25 j 16:18	4° ♄ 18'56	0°56'09
evening rise	379 Jun 18 j 16:17	5° ♄ 02'27		max. Earth dist.	380 May 26 j 13:07	6° ♄ 12'52	1.32574 AU
	379 Jul 02 j 08:32	0° ♄		evening rise	380 Jun 01 j 19:43	19° ♄ 38'24	
desc. node	379 Jul 12 j 15:09	15° ♄ 06'41			380 Jun 07 j 00:20	0° ♄	
evening max el	379 Jul 21 j 23:18	25° ♄ 46'48	27°25'37		380 Jun 25 j 18:49	0° ♄	
	379 Jul 27 j 02:47	0° ♄		desc. node	380 Jun 28 j 12:10	3° ♄ 18'52	
retrograde	379 Aug 04 j 15:36	3° ♄ 06'14		evening max el	380 Jul 03 j 06:18	8° ♄ 21'08	27°10'01
evening set	379 Aug 11 j 20:16	0° ♄		retrograde	380 Jul 17 j 03:36	15° ♄ 37'32	
	379 Aug 12 j 10:59	30° ♄		evening set	380 Jul 24 j 05:36	13° ♄ 19'47	
min. Earth dist.	379 Aug 15 j 11:03	27° ♄ 19'08	0.63465 AU	min. Earth dist.	380 Jul 27 j 20:30	10° ♄ 34'30	0.61604 AU
inferior conj	379 Aug 18 j 02:33	24° ♄ 38'44	-3°36'27	inferior conj	380 Jul 30 j 23:10	7° ♄ 47'42	-4°18'46
minimum elong	379 Aug 18 j 07:25	24° ♄ 26'24	3°35'07	minimum elong	380 Jul 31 j 03:34	7° ♄ 37'49	4°18'00
morning rise	379 Aug 24 j 19:43	19° ♄ 22'34		morning rise	380 Aug 07 j 03:05	2° ♄ 51'37	
direct	379 Aug 27 j 08:43	18° ♄ 51'21		direct	380 Aug 09 j 14:16	2° ♄ 26'01	
asc. node	379 Aug 30 j 05:04	19° ♄ 31'11		asc. node	380 Aug 16 j 02:09	5° ♄ 28'44	
morning max el	379 Sep 02 j 22:52	22° ♄ 17'01	17°53'37	morning max el	380 Aug 16 j 13:17	5° ♄ 55'04	17°57'29
	379 Sep 08 j 22:10	0° ♄			380 Aug 31 j 22:51	0° ♄	
morning set	379 Sep 19 j 14:05	17° ♄ 57'50		morning set	380 Sep 01 j 11:58	0° ♄	
	379 Sep 26 j 13:24	0° ♄					
superior conj	379 Oct 01 j 17:56	8° ♄ 42'25	0°44'44	superior conj	380 Sep 11 j 23:18	19° ♄ 47'41	1°17'20
minimum elong	379 Oct 01 j 22:14	9° ♄ 00'10	0°44'09	minimum elong	380 Sep 12 j 04:01	20° ♄ 08'12	1°16'50
max. Earth dist.	379 Oct 07 j 22:00	18° ♄ 45'05	1.43938 AU		380 Sep 17 j 23:07	0° ♄	
desc. node	379 Oct 08 j 14:26	19° ♄ 50'53		max. Earth dist.	380 Sep 19 j 10:20	2° ♄ 25'55	1.42454 AU
	379 Oct 15 j 01:02	0° ♄		desc. node	380 Sep 24 j 11:30	10° ♄ 37'00	
evening rise	379 Oct 17 j 11:06	3° ♄ 44'58		evening rise	380 Sep 25 j 23:38	13° ♄ 00'22	
	379 Nov 04 j 00:36	0° ♄			380 Oct 07 j 02:17	0° ♄	
evening max el	379 Nov 15 j 08:43	14° ♄ 29'13	20°48'51	evening max el	380 Oct 28 j 04:23	27° ♄ 59'14	22°02'41
retrograde	379 Nov 23 j 15:49	19° ♄ 23'51			380 Oct 30 j 07:27	0° ♄	
asc. node	379 Nov 26 j 04:19	18° ♄ 47'55		retrograde	380 Nov 06 j 12:05	3° ♄ 31'45	
evening set	379 Nov 27 j 14:19	17° ♄ 55'14		evening set	380 Nov 10 j 22:04	1° ♄ 46'16	
inferior conj	379 Dec 02 j 23:39	11° ♄ 44'57	2°10'49	asc. node	380 Nov 12 j 01:22	0° ♄	
minimum elong	379 Dec 02 j 21:08	11° ♄ 53'32	2°09'58		380 Nov 12 j 18:10	30° ♄	
				inferior conj	380 Nov 16 j 06:25	25° ♄ 28'21	1°24'38

minimum elong	380 Nov 16 j 04:36	25° \mathbb{M} 34'41	1°23'54	morning rise	381 Nov 05 j 20:43	3° \mathbb{M} 07'05	
min. Earth dist.	380 Nov 16 j 07:31	25° \mathbb{M} 24'35	0.67661 AU	direct	381 Nov 10 j 01:25	1° \mathbb{M} 29'06	
morning rise	380 Nov 21 j 10:58	19° \mathbb{M} 16'13		morning max el	381 Nov 18 j 15:22	6° \mathbb{M} 29'52	21°15'58
direct	380 Nov 26 j 06:02	17° \mathbb{M} 15'31			381 Dec 06 j 10:28	0° \mathbb{M}	
morning max el	380 Dec 05 j 23:37	23° \mathbb{M} 01'29	22°38'45	desc. node	381 Dec 08 j 07:45	2° \mathbb{M} 47'51	
	380 Dec 12 j 01:42	0° \mathbb{M}		morning set	381 Dec 19 j 11:08	19° \mathbb{M} 51'44	
desc. node	380 Dec 21 j 10:41	12° \mathbb{M} 41'11			381 Dec 25 j 19:11	0° \mathbb{M}	
	381 Jan 02 j 00:18	0° \mathbb{M}		max. Earth dist.	381 Dec 26 j 23:44	1° \mathbb{M} 56'42	1.42300 AU
morning set	381 Jan 08 j 23:16	11° \mathbb{M} 07'39					
max. Earth dist.	381 Jan 13 j 21:25	19° \mathbb{M} 21'31	1.40320 AU	superior conj	382 Jan 03 j 06:35	14° \mathbb{M} 10'00	-2°01'39
	381 Jan 19 j 23:42	0° \mathbb{M}		minimum elong	382 Jan 03 j 04:57	14° \mathbb{M} 02'59	2°01'37
					382 Jan 12 j 06:10	0° \mathbb{M}	
superior conj	381 Jan 21 j 16:32	3° \mathbb{M} 03'49	-1°59'40	evening rise	382 Jan 14 j 13:45	4° \mathbb{M} 11'00	
minimum elong	381 Jan 21 j 18:44	3° \mathbb{M} 13'46	1°59'35	asc. node	382 Jan 25 j 21:44	23° \mathbb{M} 44'18	
evening rise	381 Jan 31 j 14:06	21° \mathbb{M} 31'34			382 Jan 30 j 17:12	0° \mathbb{M}	
	381 Feb 05 j 02:44	0° \mathbb{M}		evening max el	382 Jan 31 j 05:52	0° \mathbb{M} 32'18	18°08'15
asc. node	381 Feb 08 j 00:42	5° \mathbb{M} 12'25		retrograde	382 Feb 06 j 22:45	3° \mathbb{M} 58'02	
evening max el	381 Feb 16 j 19:40	17° \mathbb{M} 32'52	18°23'22	evening set	382 Feb 09 j 15:01	3° \mathbb{M} 25'27	
retrograde	381 Feb 24 j 03:53	21° \mathbb{M} 10'30			382 Feb 14 j 15:08	30° \mathbb{M}	
evening set	381 Feb 26 j 15:26	20° \mathbb{M} 46'48		inferior conj	382 Feb 16 j 06:25	28° \mathbb{M} 28'24	3°43'09
inferior conj	381 Mar 05 j 21:46	16° \mathbb{M} 10'57	3°12'57	minimum elong	382 Feb 16 j 07:53	28° \mathbb{M} 24'54	3°43'01
minimum elong	381 Mar 06 j 01:20	16° \mathbb{M} 03'33	3°12'17	min. Earth dist.	382 Feb 19 j 10:27	25° \mathbb{M} 28'01	0.61052 AU
min. Earth dist.	381 Mar 09 j 08:14	13° \mathbb{M} 22'04	0.58943 AU	morning rise	382 Feb 22 j 23:08	22° \mathbb{M} 38'52	
morning rise	381 Mar 13 j 08:45	10° \mathbb{M} 39'59		direct	382 Mar 01 j 18:41	20° \mathbb{M} 21'40	
desc. node	381 Mar 19 j 09:52	8° \mathbb{M} 58'20		desc. node	382 Mar 06 j 06:54	21° \mathbb{M} 16'36	
direct	381 Mar 19 j 13:54	8° \mathbb{M} 58'16		morning max el	382 Mar 15 j 23:20	28° \mathbb{M} 12'13	27°41'14
morning max el	381 Apr 02 j 21:57	16° \mathbb{M} 39'35	27°00'19		382 Mar 17 j 17:19	0° \mathbb{M}	
	381 Apr 13 j 20:58	0° \mathbb{M}			382 Apr 07 j 14:27	0° \mathbb{M}	
	381 May 01 j 03:28	0° \mathbb{M}		morning set	382 Apr 17 j 10:37	18° \mathbb{M} 50'04	
morning set	381 May 03 j 04:29	4° \mathbb{M} 12'37			382 Apr 22 j 17:07	0° \mathbb{M}	
asc. node	381 May 07 j 00:01	12° \mathbb{M} 21'05		max. Earth dist.	382 Apr 23 j 13:37	1° \mathbb{M} 51'19	1.32413 AU
				asc. node	382 Apr 23 j 21:04	2° \mathbb{M} 31'57	
superior conj	381 May 10 j 06:14	19° \mathbb{M} 29'04	0°33'54				
minimum elong	381 May 10 j 04:47	19° \mathbb{M} 21'07	0°33'37	superior conj	382 Apr 24 j 17:17	4° \mathbb{M} 22'21	0°08'55
max. Earth dist.	381 May 10 j 01:46	19° \mathbb{M} 04'34	1.32309 AU	minimum elong	382 Apr 24 j 16:53	4° \mathbb{M} 20'06	0°08'51
	381 May 15 j 01:48	0° \mathbb{M}		behind sun begin	382 Apr 24 j 12:39	3° \mathbb{M} 56'57	
evening rise	381 May 17 j 04:00	4° \mathbb{M} 27'08		behind sun end	382 Apr 24 j 21:07	4° \mathbb{M} 43'15	
	381 May 30 j 19:14	0° \mathbb{M}		evening rise	382 May 01 j 15:01	19° \mathbb{M} 21'23	
desc. node	381 Jun 15 j 09:11	20° \mathbb{M} 16'14			382 May 06 j 20:23	0° \mathbb{M}	
evening max el	381 Jun 15 j 07:01	20° \mathbb{M} 11'05	26°21'24		382 May 26 j 18:09	0° \mathbb{M}	
retrograde	381 Jun 29 j 07:09	27° \mathbb{M} 24'09		evening max el	382 May 28 j 00:44	1° \mathbb{M} 16'00	25°04'43
evening set	381 Jul 05 j 18:57	25° \mathbb{M} 39'23		desc. node	382 Jun 02 j 06:10	5° \mathbb{M} 28'38	
min. Earth dist.	381 Jul 09 j 20:01	23° \mathbb{M} 02'15	0.59561 AU	retrograde	382 Jun 11 j 00:46	8° \mathbb{M} 23'24	
inferior conj	381 Jul 13 j 04:02	20° \mathbb{M} 26'47	-4°44'33	evening set	382 Jun 16 j 09:08	7° \mathbb{M} 17'34	
minimum elong	381 Jul 13 j 06:00	20° \mathbb{M} 22'56	4°44'26	min. Earth dist.	382 Jun 21 j 12:18	4° \mathbb{M} 30'24	0.57569 AU
morning rise	381 Jul 20 j 19:07	15° \mathbb{M} 53'14		inferior conj	382 Jun 24 j 13:49	2° \mathbb{M} 26'34	-4°42'28
direct	381 Jul 23 j 06:49	15° \mathbb{M} 31'19		minimum elong	382 Jun 24 j 11:18	2° \mathbb{M} 30'50	4°42'17
morning max el	381 Jul 30 j 23:09	19° \mathbb{M} 13'19	18°20'59		382 Jun 28 j 10:40	30° \mathbb{M}	
asc. node	381 Aug 02 j 23:14	22° \mathbb{M} 35'17		morning rise	382 Jul 02 j 16:11	28° \mathbb{M} 15'06	
	381 Aug 07 j 22:30	0° \mathbb{M}		direct	382 Jul 05 j 05:52	27° \mathbb{M} 55'43	
morning set	381 Aug 15 j 23:42	14° \mathbb{M} 42'04			382 Jul 11 j 12:10	0° \mathbb{M}	
	381 Aug 24 j 01:51	0° \mathbb{M}		morning max el	382 Jul 14 j 01:29	2° \mathbb{M} 03'04	19°05'13
				asc. node	382 Jul 20 j 20:18	10° \mathbb{M} 36'16	
superior conj	381 Aug 25 j 04:57	2° \mathbb{M} 04'53	1°37'13	morning set	382 Jul 30 j 21:14	28° \mathbb{M} 53'34	
minimum elong	381 Aug 25 j 07:59	2° \mathbb{M} 18'47	1°37'01		382 Jul 31 j 10:40	0° \mathbb{M}	
max. Earth dist.	381 Sep 01 j 17:22	15° \mathbb{M} 26'03	1.40574 AU				
evening rise	381 Sep 06 j 07:39	23° \mathbb{M} 10'09		superior conj	382 Aug 08 j 05:17	15° \mathbb{M} 18'26	1°45'59
	381 Sep 10 j 12:50	0° \mathbb{M}		minimum elong	382 Aug 08 j 06:12	15° \mathbb{M} 22'54	1°45'58
desc. node	381 Sep 11 j 08:31	1° \mathbb{M} 18'07		max. Earth dist.	382 Aug 14 j 20:33	27° \mathbb{M} 42'51	1.38546 AU
	381 Oct 01 j 01:35	0° \mathbb{M}			382 Aug 16 j 03:06	0° \mathbb{M}	
evening max el	381 Oct 10 j 19:14	11° \mathbb{M} 30'41	23°22'15	evening rise	382 Aug 18 j 16:23	4° \mathbb{M} 29'40	
retrograde	381 Oct 21 j 05:34	17° \mathbb{M} 40'54		desc. node	382 Aug 29 j 05:32	21° \mathbb{M} 50'18	
evening set	381 Oct 26 j 04:48	15° \mathbb{M} 37'32			382 Sep 03 j 14:56	0° \mathbb{M}	
asc. node	381 Oct 29 j 22:25	11° \mathbb{M} 28'20		evening max el	382 Sep 23 j 07:15	25° \mathbb{M} 05'05	24°41'15
min. Earth dist.	381 Oct 31 j 04:08	9° \mathbb{M} 48'02	0.67674 AU		382 Sep 29 j 07:51	0° \mathbb{M}	
inferior conj	381 Oct 31 j 13:35	9° \mathbb{M} 15'39	0°33'37	retrograde	382 Oct 04 j 19:16	1° \mathbb{M} 47'38	
minimum elong	381 Oct 31 j 12:47	9° \mathbb{M} 18'21	0°33'16		382 Oct 09 j 16:24	30° \mathbb{M}	

evening set	382 Oct 10 j 08:49	29° Ω 26'55		inferior conj	383 Sep 29 j 22:07	6° Ω 54'28	-1°17'07
min. Earth dist.	382 Oct 14 j 23:27	24° Ω 11'19	0.67365 AU	minimum elong	383 Sep 30 j 00:05	6° Ω 48'14	1°16'17
inferior conj	382 Oct 15 j 19:24	23° Ω 04'58	-0°20'49	asc. node	383 Oct 03 j 16:32	2° Ω 34'35	
minimum elong	382 Oct 15 j 19:54	23° Ω 03'15	0°20'36	morning rise	383 Oct 05 j 16:09	1° Ω 00'40	
asc. node	382 Oct 16 j 19:29	21° Ω 45'32		direct	383 Oct 08 j 21:29	0° Ω 00'52	
morning rise	382 Oct 21 j 07:06	17° Ω 02'25		morning max el	383 Oct 15 j 21:13	3° Ω 56'31	19°06'14
direct	382 Oct 24 j 23:02	15° Ω 45'11			383 Nov 03 j 06:43	0° \mathbb{M}	
morning max el	382 Nov 01 j 14:36	20° Ω 08'34	20°03'59	morning set	383 Nov 07 j 13:35	6° \mathbb{M} 41'52	
	382 Nov 09 j 14:04	0° \mathbb{M}		desc. node	383 Nov 12 j 01:48	13° \mathbb{M} 45'18	
desc. node	382 Nov 25 j 04:47	23° \mathbb{M} 10'43		max. Earth dist.	383 Nov 22 j 00:39	29° \mathbb{M} 22'11	1.44813 AU
morning set	382 Nov 28 j 07:36	27° \mathbb{M} 58'49			383 Nov 22 j 10:15	0° \mathcal{A}	
	382 Nov 29 j 14:54	0° \mathcal{A}					
max. Earth dist.	382 Dec 09 j 09:18	15° \mathcal{A} 21'32	1.43860 AU	superior conj	383 Nov 24 j 05:16	2° \mathcal{A} 49'53	-1°14'35
				minimum elong	383 Nov 23 j 21:02	2° \mathcal{A} 17'18	1°13'40
superior conj	382 Dec 14 j 18:12	24° \mathcal{A} 02'07	-1°47'22	evening rise	383 Dec 09 j 03:53	26° \mathcal{A} 52'32	
minimum elong	382 Dec 14 j 11:37	23° \mathcal{A} 35'12	1°46'55		383 Dec 11 j 01:36	0° \mathcal{B}	
	382 Dec 18 j 09:06	0° \mathcal{B}		evening max el	383 Dec 29 j 06:12	27° \mathcal{B} 09'11	18°35'21
evening rise	382 Dec 27 j 19:43	16° \mathcal{B} 00'11		asc. node	383 Dec 30 j 15:48	28° \mathcal{B} 28'04	
	383 Jan 05 j 00:23	0° \approx			384 Jan 01 j 20:32	0° \approx	
asc. node	383 Jan 12 j 18:46	11° \approx 33'32		retrograde	384 Jan 04 j 21:02	0° \approx 49'23	
evening max el	383 Jan 14 j 18:15	13° \approx 46'17	18°12'32	evening set	384 Jan 07 j 23:07	29° \mathcal{B} 55'58	
retrograde	383 Jan 21 j 05:53	17° \approx 13'37			384 Jan 07 j 20:14	30° $\mathcal{R}\mathcal{B}$	
evening set	383 Jan 24 j 02:43	16° \approx 31'10		inferior conj	384 Jan 13 j 19:00	24° \mathcal{B} 20'39	3°35'46
inferior conj	383 Jan 30 j 06:48	11° \approx 14'06	3°48'28	minimum elong	384 Jan 13 j 17:01	24° \mathcal{B} 26'35	3°35'30
minimum elong	383 Jan 30 j 06:13	11° \approx 15'42	3°48'27	min. Earth dist.	384 Jan 15 j 18:30	21° \mathcal{B} 59'38	0.64733 AU
min. Earth dist.	383 Feb 01 j 21:40	8° \approx 25'07	0.63041 AU	morning rise	384 Jan 19 j 10:26	18° \mathcal{B} 13'27	
morning rise	383 Feb 05 j 08:48	5° \approx 13'26		direct	384 Jan 26 j 05:42	15° \mathcal{B} 21'14	
direct	383 Feb 12 j 08:28	2° \approx 31'15		desc. node	384 Feb 08 j 00:59	22° \mathcal{B} 32'59	
desc. node	383 Feb 21 j 03:56	6° \approx 00'03		morning max el	384 Feb 08 j 15:14	23° \mathcal{B} 08'11	27°13'54
morning max el	383 Feb 26 j 05:59	10° \approx 24'39	27°45'00		384 Feb 14 j 18:07	0° \approx	
	383 Mar 13 j 14:58	0° \mathcal{H}			384 Mar 05 j 21:37	0° \mathcal{H}	
	383 Mar 30 j 21:21	0° \mathcal{Y}		morning set	384 Mar 15 j 02:05	16° \mathcal{H} 51'28	
morning set	383 Apr 01 j 10:47	3° \mathcal{Y} 06'07		max. Earth dist.	384 Mar 19 j 18:34	26° \mathcal{H} 13'35	1.33827 AU
max. Earth dist.	383 Apr 06 j 20:31	14° \mathcal{Y} 18'08	1.32906 AU		384 Mar 21 j 14:23	0° \mathcal{Y}	
superior conj	383 Apr 09 j 01:51	19° \mathcal{Y} 03'51	-0°17'39	superior conj	384 Mar 23 j 06:01	3° \mathcal{Y} 27'33	-0°44'44
minimum elong	383 Apr 09 j 02:42	19° \mathcal{Y} 08'24	0°17'27	minimum elong	384 Mar 23 j 08:11	3° \mathcal{Y} 39'00	0°44'19
asc. node	383 Apr 10 j 18:06	22° \mathcal{Y} 41'21		asc. node	384 Mar 27 j 15:07	12° \mathcal{Y} 45'25	
	383 Apr 14 j 03:15	0° \mathcal{B}		evening rise	384 Mar 30 j 13:38	18° \mathcal{Y} 57'57	
evening rise	383 Apr 16 j 02:50	4° \mathcal{B} 13'40			384 Apr 05 j 01:08	0° \mathcal{B}	
	383 Apr 30 j 01:52	0° \mathbb{I}		evening max el	384 Apr 20 j 08:48	22° \mathcal{B} 29'58	21°57'29
evening max el	383 May 09 j 14:59	11° \mathbb{I} 52'17	23°31'48	retrograde	384 May 02 j 23:52	28° \mathcal{B} 41'09	
desc. node	383 May 20 j 03:10	18° \mathbb{I} 19'21		evening set	384 May 05 j 15:48	28° \mathcal{B} 25'22	
retrograde	383 May 23 j 06:25	18° \mathbb{I} 41'44		desc. node	384 May 06 j 00:12	28° \mathcal{B} 21'02	
evening set	383 May 27 j 03:25	18° \mathbb{I} 08'40		min. Earth dist.	384 May 14 j 14:01	24° \mathcal{B} 36'54	0.55072 AU
min. Earth dist.	383 Jun 03 j 01:24	14° \mathbb{I} 56'50	0.55957 AU	inferior conj	384 May 15 j 01:41	24° \mathcal{B} 20'32	-2°31'02
inferior conj	383 Jun 05 j 03:29	13° \mathbb{I} 42'02	-3°59'34	minimum elong	384 May 14 j 19:08	24° \mathcal{B} 29'44	2°28'57
minimum elong	383 Jun 04 j 20:43	13° \mathbb{I} 52'11	3°58'10	morning rise	384 May 23 j 23:44	20° \mathcal{B} 25'19	
morning rise	383 Jun 13 j 16:48	9° \mathbb{I} 45'48		direct	384 May 26 j 22:55	20° \mathcal{B} 05'44	
direct	383 Jun 16 j 09:25	9° \mathbb{I} 27'48		morning max el	384 Jun 07 j 22:38	25° \mathcal{B} 43'25	21°35'07
morning max el	383 Jun 26 j 17:43	14° \mathbb{I} 14'58	20°10'33		384 Jun 11 j 22:18	0° \mathbb{I}	
asc. node	383 Jul 07 j 17:21	29° \mathbb{I} 18'48		asc. node	384 Jun 23 j 14:23	18° \mathbb{I} 32'36	
	383 Jul 08 j 02:38	0° \mathcal{E}		morning set	384 Jun 28 j 10:14	28° \mathbb{I} 13'18	
morning set	383 Jul 15 j 01:32	13° \mathcal{E} 26'14			384 Jun 29 j 06:45	0° \mathcal{E}	
superior conj	383 Jul 22 j 19:04	29° \mathcal{E} 13'18	1°45'46	superior conj	384 Jul 05 j 18:15	13° \mathcal{E} 36'55	1°38'28
minimum elong	383 Jul 22 j 18:16	29° \mathcal{E} 09'14	1°45'45	minimum elong	384 Jul 05 j 16:20	13° \mathcal{E} 26'52	1°38'19
	383 Jul 23 j 04:22	0° Ω		max. Earth dist.	384 Jul 09 j 13:53	21° \mathcal{E} 27'12	1.35002 AU
max. Earth dist.	383 Jul 28 j 01:26	9° Ω 34'11	1.36626 AU		384 Jul 13 j 22:08	0° Ω	
evening rise	383 Jul 31 j 23:39	16° Ω 54'45		evening rise	384 Jul 14 j 00:41	0° Ω 12'13	
	383 Aug 08 j 11:28	0° \mathbb{P}			384 Jul 31 j 13:22	0° \mathbb{P}	
desc. node	383 Aug 16 j 02:32	12° \mathbb{P} 08'41		desc. node	384 Aug 01 j 23:33	2° \mathbb{P} 06'13	
	383 Aug 28 j 23:48	0° Ω		evening max el	384 Aug 18 j 06:51	22° \mathbb{P} 17'26	26°47'47
evening max el	383 Sep 05 j 18:48	8° Ω 42'39	25°52'22	retrograde	384 Aug 31 j 08:16	29° \mathbb{P} 33'16	
retrograde	383 Sep 18 j 04:25	15° Ω 47'25		evening set	384 Sep 07 j 01:08	26° \mathbb{P} 49'24	
evening set	383 Sep 24 j 08:19	13° Ω 12'17		min. Earth dist.	384 Sep 11 j 00:44	22° \mathbb{P} 46'36	0.65748 AU
min. Earth dist.	383 Sep 28 j 15:08	8° Ω 32'26	0.66729 AU	inferior conj	384 Sep 12 j 19:45	20° \mathbb{P} 39'59	-2°13'32

minimum elong	384 Sep 12 j 23:09	20° \mathbb{M} 29'56	2°12'14	inferior conj	385 Aug 27 j 09:57	4° \mathbb{M} 16'46	-3°07'38
morning rise	384 Sep 18 j 21:43	14° \mathbb{M} 58'04		minimum elong	385 Aug 27 j 14:30	4° \mathbb{M} 04'33	3°06'11
asc. node	384 Sep 19 j 13:35	14° \mathbb{M} 39'25			385 Aug 31 j 22:18	30° \mathbb{R} \mathcal{Q}	
direct	384 Sep 21 j 18:49	14° \mathbb{M} 12'00		morning rise	385 Sep 02 j 21:15	28° \mathcal{Q} 50'14	
morning max el	384 Sep 28 j 09:25	17° \mathbb{M} 49'08	18°24'30	direct	385 Sep 05 j 12:36	28° \mathcal{Q} 14'23	
	384 Oct 07 j 11:04	0° \mathcal{Q}		asc. node	385 Sep 06 j 10:37	28° \mathcal{Q} 18'46	
morning set	384 Oct 17 j 22:05	16° \mathcal{Q} 46'12			385 Sep 10 j 02:26	0° \mathbb{M}	
	384 Oct 26 j 03:35	0° \mathbb{M}		morning max el	385 Sep 12 j 00:46	1° \mathbb{M} 41'33	17°59'47
desc. node	384 Oct 28 j 22:50	4° \mathbb{M} 27'20		morning set	385 Sep 29 j 10:45	28° \mathbb{M} 13'04	
					385 Sep 30 j 12:01	0° \mathcal{Q}	
superior conj	384 Nov 02 j 05:51	11° \mathbb{M} 14'16	-0°28'03	superior conj	385 Oct 12 j 17:57	20° \mathcal{Q} 16'53	0°20'23
minimum elong	384 Nov 02 j 02:10	10° \mathbb{M} 59'46	0°27'33	minimum elong	385 Oct 12 j 20:17	20° \mathcal{Q} 26'19	0°20'03
max. Earth dist.	384 Nov 03 j 19:16	13° \mathbb{M} 41'28	1.45050 AU	desc. node	385 Oct 15 j 19:54	25° \mathcal{Q} 13'40	
	384 Nov 14 j 04:44	0° \mathcal{Q}		max. Earth dist.	385 Oct 17 j 13:59	28° \mathcal{Q} 01'06	1.44547 AU
evening rise	384 Nov 18 j 12:19	6° \mathcal{Q} 46'50			385 Oct 18 j 20:02	0° \mathbb{M}	
greatest brilliancy	384 Nov 28 j 20:07	22° \mathcal{Q} 57'48	-0.8m	evening rise	385 Oct 29 j 01:32	15° \mathbb{M} 56'57	
	384 Dec 03 j 11:33	0° \mathcal{Q}			385 Nov 07 j 06:17	0° \mathcal{Q}	
evening max el	384 Dec 11 j 15:21	10° \mathcal{Q} 36'10	19°15'26	greatest brilliancy	385 Nov 12 j 04:02	7° \mathcal{Q} 20'08	-0.6m
asc. node	384 Dec 16 j 12:50	14° \mathcal{Q} 13'15		evening max el	385 Nov 24 j 19:51	24° \mathcal{Q} 04'44	20°10'56
retrograde	384 Dec 18 j 16:45	14° \mathcal{Q} 39'04		retrograde	385 Dec 02 j 14:24	28° \mathcal{Q} 38'36	
evening set	384 Dec 22 j 01:26	13° \mathcal{Q} 33'12		asc. node	385 Dec 03 j 09:53	28° \mathcal{Q} 34'52	
inferior conj	384 Dec 27 j 15:38	7° \mathcal{Q} 41'53	3°10'03	evening set	385 Dec 06 j 07:21	27° \mathcal{Q} 18'38	
minimum elong	384 Dec 27 j 12:58	7° \mathcal{Q} 50'25	3°09'27	inferior conj	385 Dec 11 j 17:56	21° \mathcal{Q} 14'08	2°34'39
min. Earth dist.	384 Dec 29 j 00:12	5° \mathcal{Q} 57'45	0.66042 AU	minimum elong	385 Dec 11 j 15:13	21° \mathcal{Q} 23'17	2°33'49
morning rise	385 Jan 02 j 00:15	1° \mathcal{Q} 30'51		min. Earth dist.	385 Dec 12 j 13:05	20° \mathcal{Q} 09'47	0.66957 AU
	385 Jan 04 j 00:34	30° \mathbb{R} \mathcal{Q}		morning rise	385 Dec 16 j 22:54	15° \mathcal{Q} 01'04	
direct	385 Jan 08 j 08:59	28° \mathcal{Q} 42'42		direct	385 Dec 22 j 17:42	12° \mathcal{Q} 27'23	
	385 Jan 13 j 03:35	0° \mathcal{Q}		morning max el	386 Jan 03 j 09:18	19° \mathcal{Q} 23'40	24°56'22
morning max el	385 Jan 21 j 00:39	6° \mathcal{Q} 10'55	26°14'40	desc. node	386 Jan 11 j 19:05	29° \mathcal{Q} 10'53	
desc. node	385 Jan 24 j 22:01	10° \mathcal{Q} 24'07			386 Jan 12 j 10:14	0° \mathcal{Q}	
	385 Feb 08 j 10:44	0° \approx			386 Feb 01 j 13:45	0° \approx	
morning set	385 Feb 26 j 04:41	29° \approx 54'24		morning set	386 Feb 08 j 13:24	11° \approx 59'46	
	385 Feb 26 j 05:53	0° \mathcal{H}		max. Earth dist.	386 Feb 12 j 05:25	18° \approx 38'55	1.37005 AU
max. Earth dist.	385 Mar 02 j 05:16	7° \mathcal{H} 35'42	1.35202 AU		386 Feb 18 j 04:38	0° \mathcal{H}	
superior conj	385 Mar 07 j 03:25	17° \mathcal{H} 26'14	-1°11'03	superior conj	386 Feb 18 j 15:01	0° \mathcal{H} 50'47	-1°34'42
minimum elong	385 Mar 07 j 06:45	17° \mathcal{H} 43'17	1°10'30	minimum elong	386 Feb 18 j 18:57	1° \mathcal{H} 10'09	1°34'13
	385 Mar 13 j 05:13	0° \mathbb{Y}		evening rise	386 Feb 27 j 00:14	17° \mathcal{H} 36'38	
evening rise	385 Mar 14 j 21:30	3° \mathbb{Y} 28'03		asc. node	386 Mar 01 j 09:12	22° \mathcal{H} 19'28	
asc. node	385 Mar 14 j 12:09	2° \mathbb{Y} 39'56			386 Mar 05 j 10:20	0° \mathbb{Y}	
	385 Mar 30 j 05:54	0° \mathcal{B}		evening max el	386 Mar 16 j 02:32	15° \mathbb{Y} 16'42	19°27'35
evening max el	385 Apr 02 j 12:02	3° \mathcal{B} 34'47	20°33'54	retrograde	386 Mar 25 j 10:35	19° \mathbb{Y} 46'13	
retrograde	385 Apr 13 j 12:52	8° \mathcal{B} 54'19		evening set	386 Mar 27 j 13:55	19° \mathbb{Y} 33'06	
evening set	385 Apr 15 j 16:09	8° \mathcal{B} 43'10		inferior conj	386 Apr 05 j 01:33	15° \mathbb{Y} 26'47	1°18'29
desc. node	385 Apr 22 j 21:13	5° \mathcal{B} 52'34		minimum elong	386 Apr 05 j 04:39	15° \mathbb{Y} 21'45	1°17'28
inferior conj	385 Apr 24 j 20:19	4° \mathcal{B} 45'37	-0°33'55	min. Earth dist.	386 Apr 07 j 17:39	13° \mathbb{Y} 43'20	0.56088 AU
minimum elong	385 Apr 26 j 18:43	4° \mathcal{B} 47'55	0°33'20	desc. node	386 Apr 09 j 18:15	12° \mathbb{Y} 30'40	
min. Earth dist.	385 Apr 29 j 03:10	4° \mathcal{B} 01'05	0.55118 AU	morning rise	386 Apr 13 j 16:41	10° \mathbb{Y} 42'32	
morning rise	385 May 03 j 20:17	0° \mathcal{B} 33'04		direct	386 Apr 18 j 06:19	9° \mathbb{Y} 55'16	
direct	385 May 07 j 10:11	0° \mathcal{B} 05'23		morning max el	386 May 02 j 08:56	17° \mathbb{Y} 03'35	24°53'50
morning max el	385 May 20 j 18:05	6° \mathcal{B} 33'39	23°13'15		386 May 12 j 22:03	0° \mathcal{B}	
	385 Jun 06 j 06:50	0° \mathbb{I}		morning set	386 May 28 j 09:26	28° \mathcal{B} 07'56	
asc. node	385 Jun 10 j 11:25	8° \mathbb{I} 09'49		asc. node	386 May 28 j 08:29	28° \mathcal{B} 02'58	
morning set	385 Jun 12 j 21:27	13° \mathbb{I} 09'29			386 May 29 j 06:36	0° \mathbb{I}	
superior conj	385 Jun 19 j 23:50	28° \mathbb{I} 20'25	1°25'34	superior conj	386 Jun 04 j 09:19	13° \mathbb{I} 14'51	1°08'13
minimum elong	385 Jun 19 j 21:24	28° \mathbb{I} 07'24	1°25'16	minimum elong	386 Jun 04 j 06:55	13° \mathbb{I} 01'49	1°07'49
	385 Jun 20 j 18:29	0° \mathcal{E}		max. Earth dist.	386 Jun 05 j 18:21	16° \mathbb{I} 14'16	1.32895 AU
max. Earth dist.	385 Jun 22 j 12:05	3° \mathcal{E} 40'18	1.33756 AU	evening rise	386 Jun 11 j 14:20	28° \mathbb{I} 33'38	
evening rise	385 Jun 27 j 14:53	14° \mathcal{E} 09'24			386 Jun 12 j 07:17	0° \mathcal{E}	
	385 Jul 06 j 02:04	0° \mathcal{Q}			386 Jun 29 j 06:35	0° \mathcal{Q}	
desc. node	385 Jul 19 j 20:35	21° \mathcal{Q} 33'55		desc. node	386 Jul 06 j 17:36	10° \mathcal{Q} 18'29	
	385 Jul 26 j 11:22	0° \mathbb{M}		evening max el	386 Jul 14 j 03:51	18° \mathcal{Q} 33'12	27°22'53
evening max el	385 Jul 31 j 18:38	5° \mathbb{M} 38'58	27°19'57	retrograde	386 Jul 27 j 22:12	25° \mathcal{Q} 51'17	
retrograde	385 Aug 14 j 06:20	12° \mathbb{M} 57'46		evening set	386 Aug 04 j 03:13	23° \mathcal{Q} 19'39	
evening set	385 Aug 21 j 08:36	10° \mathbb{M} 13'58		min. Earth dist.	386 Aug 07 j 17:07	20° \mathcal{Q} 22'46	0.62715 AU
min. Earth dist.	385 Aug 25 j 01:56	6° \mathbb{M} 47'05	0.64409 AU				

inferior conj	386 Aug 10 j 13:53	17°♎37'44	-3°55'50	evening set	387 Jul 17 j 04:37	5°♏59'07	
minimum elong	386 Aug 10 j 18:45	17°♎26'01	3°54'42	min. Earth dist.	387 Jul 20 j 22:03	3°♎19'36	0.60744 AU
morning rise	386 Aug 17 j 11:35	12°♎29'59		inferior conj	387 Jul 24 j 04:11	0°♎34'48	-4°32'20
direct	386 Aug 19 j 23:35	12°♎01'24		minimum elong	387 Jul 24 j 07:51	0°♎27'04	4°31'52
asc. node	386 Aug 24 j 07:42	13°♎29'19			387 Jul 24 j 20:42	30°♏	
morning max el	386 Aug 26 j 16:25	15°♎27'03	17°52'57	morning rise	387 Jul 31 j 12:54	25°♏48'29	
	386 Sep 05 j 19:42	0°♏		direct	387 Aug 02 j 23:57	25°♏24'47	
morning set	386 Sep 11 j 22:14	10°♏45'03		morning max el	387 Aug 10 j 05:20	28°♏58'03	18°05'01
	386 Sep 22 j 23:05	0°♏		asc. node	387 Aug 11 j 04:46	29°♏58'06	
					387 Aug 11 j 05:29	0°♏	
superior conj	386 Sep 23 j 07:34	0°♏35'54	1°00'09	morning set	387 Aug 26 j 02:33	24°♏05'26	
minimum elong	386 Sep 23 j 12:26	0°♏56'25	0°59'33		387 Aug 29 j 06:45	0°♏	
max. Earth dist.	386 Sep 30 j 05:10	12°♏00'20	1.43369 AU				
desc. node	386 Oct 02 j 16:57	16°♏00'49		superior conj	387 Sep 04 j 23:54	12°♏13'42	1°27'15
evening rise	386 Oct 08 j 09:02	24°♏56'40		minimum elong	387 Sep 05 j 04:02	12°♏32'06	1°26'53
	386 Oct 11 j 15:41	0°♏		max. Earth dist.	387 Sep 12 j 14:39	25°♏22'50	1.41684 AU
	386 Nov 01 j 09:10	0°♏			387 Sep 15 j 09:34	0°♏	
evening max el	386 Nov 07 j 18:36	7°♏33'45	21°19'11	evening rise	387 Sep 18 j 04:27	4°♏31'20	
retrograde	386 Nov 16 j 11:47	12°♏44'39		desc. node	387 Sep 19 j 13:58	6°♏45'12	
asc. node	386 Nov 20 j 06:55	11°♏23'54			387 Oct 04 j 23:30	0°♏	
evening set	386 Nov 20 j 14:57	11°♏08'52		evening max el	387 Oct 21 j 11:52	21°♏03'41	22°36'13
inferior conj	386 Nov 25 j 23:39	4°♏54'38	1°51'55	retrograde	387 Oct 31 j 07:08	26°♏53'18	
minimum elong	386 Nov 25 j 21:23	5°♏02'27	1°51'04	evening set	387 Nov 04 j 22:26	25°♏00'23	
min. Earth dist.	386 Nov 26 j 06:59	4°♏29'22	0.67498 AU	asc. node	387 Nov 07 j 03:59	22°♏45'34	
	386 Nov 29 j 19:43	30°♏		inferior conj	387 Nov 10 j 06:48	18°♏40'07	1°03'29
morning rise	386 Dec 01 j 03:40	28°♏41'25		minimum elong	387 Nov 10 j 05:22	18°♏45'03	1°02'53
direct	386 Dec 06 j 07:16	26°♏28'01		min. Earth dist.	387 Nov 10 j 03:22	18°♏51'57	0.67700 AU
	386 Dec 13 j 20:21	0°♏		morning rise	387 Nov 15 j 12:10	12°♏28'58	
morning max el	386 Dec 16 j 18:15	2°♏41'39	23°29'10	direct	387 Nov 20 j 00:54	10°♏38'03	
desc. node	386 Dec 29 j 16:09	18°♏37'25		morning max el	387 Nov 29 j 06:25	16°♏04'47	22°02'26
	387 Jan 06 j 13:09	0°♏			387 Dec 10 j 13:10	0°♏	
morning set	387 Jan 20 j 22:03	22°♏52'00		desc. node	387 Dec 16 j 13:11	8°♏31'40	
max. Earth dist.	387 Jan 25 j 00:31	29°♏55'15	1.39087 AU		387 Dec 30 j 14:50	0°♏	
	387 Jan 25 j 01:36	0°♏		morning set	388 Jan 01 j 01:38	2°♏19'17	
				max. Earth dist.	388 Jan 06 j 22:07	11°♏55'23	1.41194 AU
superior conj	387 Feb 01 j 12:55	13°♏31'34	-1°52'59				
minimum elong	387 Feb 01 j 16:17	13°♏47'19	1°52'44	superior conj	388 Jan 14 j 16:05	25°♏15'42	-2°02'13
	387 Feb 10 j 03:17	0°♏		minimum elong	388 Jan 14 j 16:56	25°♏19'25	2°02'12
evening rise	387 Feb 10 j 19:10	1°♏17'00			388 Jan 17 j 07:44	0°♏	
asc. node	387 Feb 16 j 06:16	11°♏38'37		evening rise	388 Jan 25 j 02:54	14°♏20'28	
evening max el	387 Feb 27 j 03:00	27°♏35'08	18°41'01		388 Feb 02 j 20:01	0°♏	
	387 Mar 02 j 04:46	0°♏		asc. node	388 Feb 03 j 03:17	0°♏30'01	
retrograde	387 Mar 07 j 01:36	1°♏27'08		evening max el	388 Feb 10 j 10:35	10°♏22'10	18°14'34
evening set	387 Mar 09 j 09:51	1°♏08'09		retrograde	388 Feb 17 j 10:56	13°♏52'44	
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inferior conj	387 Mar 17 j 02:23	26°♏44'21	2°41'19	inferior conj	388 Feb 27 j 00:06	8°♏40'55	3°29'15
minimum elong	387 Mar 17 j 06:37	26°♏36'19	2°40'16	minimum elong	388 Feb 27 j 02:51	8°♏34'52	3°28'52
min. Earth dist.	387 Mar 20 j 11:02	24°♏13'06	0.57776 AU	min. Earth dist.	388 Mar 01 j 09:15	5°♏43'43	0.59840 AU
morning rise	387 Mar 25 j 00:26	21°♏27'43		morning rise	388 Mar 05 j 02:59	3°♏00'53	
desc. node	387 Mar 27 j 15:17	20°♏31'07		direct	388 Mar 11 j 15:41	1°♏02'52	
direct	387 Mar 30 j 16:35	20°♏07'42		desc. node	388 Mar 13 j 12:20	1°♏12'08	
morning max el	387 Apr 14 j 01:12	27°♏41'22	26°21'28	morning max el	388 Mar 25 j 22:42	8°♏49'36	27°22'05
	387 Apr 16 j 07:13	0°♏			388 Apr 11 j 02:52	0°♏	
	387 May 06 j 07:51	0°♏		morning set	388 Apr 26 j 04:58	27°♏48'21	
morning set	387 May 12 j 20:31	13°♏02'54			388 Apr 27 j 06:08	0°♏	
asc. node	387 May 15 j 05:34	18°♏06'38		asc. node	388 May 01 j 02:37	8°♏16'02	
superior conj	387 May 19 j 20:45	28°♏13'35	0°47'17	superior conj	388 May 03 j 08:25	13°♏10'30	0°23'33
minimum elong	387 May 19 j 18:51	28°♏03'08	0°46'55	minimum elong	388 May 03 j 07:23	13°♏04'47	0°23'20
max. Earth dist.	387 May 20 j 05:31	29°♏01'40	1.32412 AU	max. Earth dist.	388 May 02 j 18:04	11°♏51'44	1.32300 AU
	387 May 20 j 16:09	0°♏		evening rise	388 May 10 j 05:44	28°♏07'24	
evening rise	387 May 26 j 20:04	13°♏15'35			388 May 11 j 03:11	0°♏	
	387 Jun 04 j 09:39	0°♏			388 May 28 j 00:21	0°♏	
desc. node	387 Jun 23 j 14:36	28°♏01'56		evening max el	388 Jun 07 j 05:52	12°♏19'07	25°51'47
	387 Jun 25 j 12:10	0°♏		desc. node	388 Jun 09 j 11:36	14°♏19'08	
evening max el	387 Jun 26 j 08:08	0°♏48'30	26°53'08	retrograde	388 Jun 21 j 07:01	19°♏30'49	
retrograde	387 Jul 10 j 07:04	8°♏04'26		evening set	388 Jun 27 j 08:20	18°♏02'47	

























































































































min. Earth dist.	388 Jul 01 j 18:24	15°☿23'13	0.58680 AU	evening max el	389 May 19 j 21:38	23°♊09'32	24°26'25
inferior conj	388 Jul 05 j 01:19	12°☿58'48	-4°47'57	desc. node	389 May 27 j 08:37	28°♊36'03	
minimum elong	388 Jul 05 j 01:34	12°☿58'19	4°47'56		389 May 31 j 15:49	0°☿	
morning rise	388 Jul 12 j 21:11	8°☿34'47		retrograde	389 Jun 02 j 19:18	0°☿10'36	
direct	388 Jul 15 j 09:24	8°☿14'10			389 Jun 04 j 23:01	30°♊	
morning max el	388 Jul 23 j 12:23	12°☿05'51	18°37'13	evening set	389 Jun 07 j 12:57	29°♊20'24	
asc. node	388 Jul 28 j 01:50	17°☿29'52		min. Earth dist.	389 Jun 13 j 08:55	26°♊24'19	0.56812 AU
	388 Aug 04 j 13:53	0°♊		inferior conj	389 Jun 16 j 02:26	24°♊40'01	-4°29'56
morning set	388 Aug 08 j 18:56	8°♊01'50		minimum elong	389 Jun 15 j 21:50	24°♊47'23	4°29'20
				morning rise	389 Jun 24 j 09:29	20°♊35'58	
superior conj	388 Aug 17 j 14:14	24°♊57'21	1°42'10	direct	389 Jun 27 j 00:24	20°♊17'13	
minimum elong	388 Aug 17 j 16:21	25°♊07'19	1°42'03	morning max el	389 Jul 06 j 10:33	24°♊39'55	19°30'30
	388 Aug 20 j 07:33	0°♊			389 Jul 11 j 02:05	0°☿	
max. Earth dist.	388 Aug 24 j 19:27	8°♊03'34	1.39713 AU	asc. node	389 Jul 14 j 22:52	5°☿49'49	
evening rise	388 Aug 28 j 23:03	15°♊11'38		morning set	389 Jul 23 j 19:42	22°☿23'30	
desc. node	388 Sep 05 j 10:58	27°♊23'35			389 Jul 27 j 14:27	0°♊	
	388 Sep 07 j 03:05	0°♊					
	388 Sep 28 j 19:10	0°♊		superior conj	389 Jul 31 j 20:50	8°♊29'57	1°46'53
evening max el	388 Oct 03 j 01:23	4°♊37'20	23°56'22	minimum elong	389 Jul 31 j 20:57	8°♊30'33	1°46'52
retrograde	388 Oct 13 j 23:05	11°♊02'09		max. Earth dist.	389 Aug 06 j 23:00	20°♊08'17	1.37706 AU
evening set	388 Oct 19 j 04:12	8°♊51'31		evening rise	389 Aug 10 j 17:54	27°♊00'28	
min. Earth dist.	388 Oct 23 j 23:49	3°♊16'01	0.67586 AU		389 Aug 12 j 10:44	0°♊	
asc. node	388 Oct 24 j 01:01	3°♊11'56		desc. node	389 Aug 23 j 07:59	17°♊50'49	
inferior conj	388 Oct 24 j 13:37	2°♊29'12	0°10'52		389 Aug 31 j 14:28	0°♊	
minimum elong	388 Oct 24 j 13:21	2°♊30'06	0°10'45	evening max el	389 Sep 15 j 13:11	18°♊14'14	25°12'55
transit middle	388 Oct 24 j 13:21	2°♊30'06	0°10'45	retrograde	389 Sep 27 j 10:45	25°♊06'43	
transit begin	388 Oct 24 j 11:18	2°♊37'02		evening set	389 Oct 03 j 06:32	22°♊39'30	
transit end	388 Oct 24 j 15:24	2°♊23'09		min. Earth dist.	389 Oct 07 j 17:51	17°♊38'58	0.67144 AU
	388 Oct 26 j 10:40	30°♊		inferior conj	389 Oct 08 j 18:21	16°♊19'04	-0°44'32
morning rise	388 Oct 29 j 22:27	26°♊22'38		minimum elong	389 Oct 08 j 19:28	16°♊15'25	0°44'03
direct	388 Nov 02 j 21:32	24°♊53'36		asc. node	389 Oct 10 j 22:04	13°♊36'05	
morning max el	388 Nov 11 j 01:06	29°♊37'19	20°43'38	morning rise	389 Oct 14 j 08:32	10°♊19'56	
	388 Nov 11 j 09:58	0°♊		direct	389 Oct 17 j 19:47	9°♊10'23	
desc. node	388 Dec 02 j 10:13	28°♊46'07		morning max el	389 Oct 25 j 03:35	13°♊20'16	19°37'31
	388 Dec 03 j 05:46	0°♊			389 Nov 06 j 16:56	0°♊	
morning set	388 Dec 10 j 04:13	10°♊39'06		greatest brilliancy	389 Nov 07 j 19:23	1°♊38'56	-0.7m
max. Earth dist.	388 Dec 19 j 03:20	24°♊52'14	1.43036 AU	morning set	389 Nov 19 j 01:49	18°♊53'42	
	388 Dec 22 j 06:44	0°♊		desc. node	389 Nov 19 j 07:16	19°♊14'48	
					389 Nov 26 j 05:03	0°♊	
superior conj	388 Dec 25 j 19:14	5°♊51'10	-1°57'49	max. Earth dist.	389 Dec 01 j 16:12	8°♊36'42	1.44358 AU
minimum elong	388 Dec 25 j 15:27	5°♊35'16	1°57'40				
evening rise	389 Jan 06 j 19:29	26°♊39'02		superior conj	389 Dec 05 j 19:37	15°♊13'33	-1°35'39
	389 Jan 08 j 16:50	0°♊		minimum elong	389 Dec 05 j 11:36	14°♊41'20	1°34'56
asc. node	389 Jan 20 j 00:19	18°♊45'05			389 Dec 14 j 20:40	0°♊	
evening max el	389 Jan 23 j 22:06	23°♊28'55	18°07'47	evening rise	389 Dec 19 j 16:38	8°♊05'12	
retrograde	389 Jan 30 j 11:25	26°♊53'23			390 Jan 02 j 02:04	0°♊	
evening set	389 Feb 02 j 05:44	26°♊16'35		asc. node	390 Jan 06 j 21:20	6°♊13'02	
inferior conj	389 Feb 08 j 15:54	21°♊10'55	3°47'56	evening max el	390 Jan 07 j 10:38	6°♊47'48	18°20'01
minimum elong	389 Feb 08 j 16:26	21°♊09'34	3°47'55	retrograde	390 Jan 13 j 22:33	10°♊19'13	
min. Earth dist.	389 Feb 11 j 14:53	18°♊12'59	0.61934 AU	evening set	390 Jan 16 j 21:34	9°♊32'05	
morning rise	389 Feb 15 j 01:53	15°♊16'14		inferior conj	390 Jan 22 j 21:48	4°♊06'44	3°44'56
direct	389 Feb 22 j 00:36	12°♊46'37		minimum elong	390 Jan 22 j 20:31	4°♊10'20	3°44'50
desc. node	389 Feb 28 j 09:22	14°♊36'13		min. Earth dist.	390 Jan 25 j 06:03	1°♊28'27	0.63806 AU
morning max el	389 Mar 08 j 02:17	20°♊38'36	27°47'19		390 Jan 26 j 15:35	30°♊	
	389 Mar 16 j 04:25	0°♊		morning rise	390 Jan 28 j 18:50	28°♊03'00	
	389 Apr 04 j 01:42	0°♊		direct	390 Feb 04 j 17:29	25°♊15'04	
morning set	389 Apr 10 j 08:48	12°♊17'16		desc. node	390 Feb 15 j 06:25	0°♊11'06	
max. Earth dist.	389 Apr 16 j 04:12	24°♊31'09	1.32573 AU		390 Feb 15 j 01:06	0°♊	
				morning max el	390 Feb 18 j 10:26	3°♊06'10	27°35'48
superior conj	389 Apr 17 j 18:37	27°♊59'25	-0°02'13		390 Mar 10 j 13:26	0°♊	
minimum elong	389 Apr 17 j 18:43	27°♊59'59	0°02'12	morning set	390 Mar 25 j 05:36	26°♊21'54	
behind sun begin	389 Apr 17 j 13:38	27°♊32'19			390 Mar 27 j 01:06	0°♊	
behind sun end	389 Apr 17 j 23:48	28°♊27'41		max. Earth dist.	390 Mar 30 j 08:05	6°♊47'33	1.33248 AU
asc. node	389 Apr 17 j 23:37	28°♊26'41					
	389 Apr 18 j 16:45	0°♊		superior conj	390 Apr 02 j 01:34	12°♊34'31	-0°29'08
evening rise	389 Apr 24 j 17:18	13°♊01'40		minimum elong	390 Apr 02 j 02:59	12°♊42'04	0°28'50
	389 May 03 j 07:42	0°♊		asc. node	390 Apr 04 j 20:39	18°♊34'43	

evening rise	390 Apr 09 j 04:57	27° Υ 52'03		evening rise	391 Mar 24 j 14:46	12° Υ 31'00	
	390 Apr 10 j 05:23	0° ♄			391 Apr 02 j 16:36	0° ♄	
	390 Apr 28 j 01:46	0° ♁		evening max el	391 Apr 13 j 09:33	14° ♄ 28'26	21°20'01
evening max el	390 May 01 j 12:26	3° ♁ 42'29	22°50'58	retrograde	391 Apr 25 j 09:51	20° ♄ 19'10	
desc. node	390 May 14 j 05:37	10° ♁ 17'21		evening set	391 Apr 27 j 18:08	20° ♄ 06'32	
retrograde	390 May 14 j 19:10	10° ♁ 18'04		desc. node	391 May 01 j 02:39	19° ♄ 08'29	
evening set	390 May 18 j 02:33	9° ♁ 54'04		inferior conj	391 May 07 j 03:22	16° ♄ 06'29	-1°43'00
min. Earth dist.	390 May 25 j 21:11	6° ♁ 28'32	0.55479 AU	minimum elong	391 May 06 j 22:34	16° ♄ 13'13	1°41'20
inferior conj	390 May 27 j 08:30	5° ♁ 37'44	-3°27'10	min. Earth dist.	391 May 07 j 09:57	15° ♄ 57'14	0.54971 AU
minimum elong	390 May 27 j 01:06	5° ♁ 48'25	3°25'14	morning rise	391 May 16 j 03:24	12° ♄ 06'13	
morning rise	390 Jun 05 j 02:04	1° ♁ 44'30		direct	391 May 19 j 07:18	11° ♄ 44'28	
direct	390 Jun 07 j 21:01	1° ♁ 26'16		morning max el	391 May 31 j 22:33	17° ♄ 44'26	22°15'51
morning max el	390 Jun 18 j 21:56	6° ♁ 33'22	20°44'28		391 Jun 10 j 17:26	0° ♁	
asc. node	390 Jul 01 j 19:55	24° ♁ 46'44		asc. node	391 Jun 18 j 16:58	14° ♁ 11'06	
	390 Jul 04 j 13:55	0° ♁		morning set	391 Jun 22 j 12:07	21° ♁ 54'25	
morning set	390 Jul 08 j 02:08	7° ♁ 03'07			391 Jun 26 j 08:01	0° ♁	
superior conj	390 Jul 15 j 15:04	22° ♁ 38'19	1°43'27	superior conj	391 Jun 29 j 17:18	7° ♁ 11'23	1°33'36
minimum elong	390 Jul 15 j 13:42	22° ♁ 31'22	1°43'23	minimum elong	391 Jun 29 j 15:06	6° ♁ 59'43	1°33'24
	390 Jul 19 j 06:48	0° ♁		max. Earth dist.	391 Jul 02 j 23:03	13° ♁ 56'40	1.34417 AU
max. Earth dist.	390 Jul 20 j 06:45	1° ♁ 57'52	1.35892 AU	evening rise	391 Jul 07 j 16:25	23° ♁ 24'24	
evening rise	390 Jul 24 j 09:18	9° ♁ 48'57			391 Jul 11 j 03:38	0° ♁	
	390 Aug 05 j 00:49	0° ♁		desc. node	391 Jul 28 j 02:00	27° ♁ 47'11	
desc. node	390 Aug 10 j 05:00	8° ♁ 01'10			391 Jul 29 j 15:45	0° ♁	
	390 Aug 27 j 04:47	0° ♁		evening max el	391 Aug 11 j 12:43	15° ♁ 20'45	27°04'43
evening max el	390 Aug 29 j 00:50	1° ♁ 51'03	26°18'14	retrograde	391 Aug 24 j 19:17	22° ♁ 39'32	
retrograde	390 Sep 10 j 17:36	9° ♁ 01'32		evening set	391 Aug 31 j 16:45	19° ♁ 54'05	
evening set	390 Sep 17 j 03:29	6° ♁ 21'31		min. Earth dist.	391 Sep 04 j 13:21	16° ♁ 07'05	0.65215 AU
min. Earth dist.	390 Sep 21 j 07:05	1° ♁ 57'43	0.66358 AU	inferior conj	391 Sep 06 j 13:56	13° ♁ 49'15	-2°36'58
inferior conj	390 Sep 22 j 19:08	0° ♁ 06'57	-1°41'09	minimum elong	391 Sep 06 j 17:53	13° ♁ 38'00	2°35'33
minimum elong	390 Sep 22 j 21:44	29° ♁ 58'58	1°40'06	morning rise	391 Sep 12 j 19:44	8° ♁ 13'42	
	390 Sep 22 j 21:24	30° ♁		asc. node	391 Sep 14 j 16:11	7° ♁ 37'03	
asc. node	390 Sep 27 j 19:07	24° ♁ 53'01		direct	391 Sep 15 j 13:59	7° ♁ 32'33	
morning rise	390 Sep 28 j 16:23	24° ♁ 18'06		morning max el	391 Sep 22 j 02:53	11° ♁ 04'40	18°11'55
direct	390 Oct 01 j 17:57	23° ♁ 24'38			391 Oct 05 j 06:26	0° ♁	
morning max el	390 Oct 08 j 12:56	27° ♁ 11'01	18°46'31	morning set	391 Oct 10 j 14:58	8° ♁ 49'56	
	390 Oct 11 j 01:05	0° ♁			391 Oct 23 j 15:56	0° ♁	
morning set	390 Oct 29 j 18:03	28° ♁ 09'07		desc. node	391 Oct 24 j 01:21	0° ♁ 37'30	
	390 Oct 30 j 22:04	0° ♁		superior conj	391 Oct 25 j 02:47	2° ♁ 18'33	-0°07'01
desc. node	390 Nov 06 j 04:19	9° ♁ 53'06		minimum elong	391 Oct 25 j 01:53	2° ♁ 14'58	0°06'55
superior conj	390 Nov 14 j 23:43	23° ♁ 44'06	-0°55'54	behind sun begin	391 Oct 24 j 15:53	1° ♁ 35'16	
minimum elong	390 Nov 14 j 16:47	23° ♁ 16'48	0°55'03	behind sun end	391 Oct 25 j 11:53	2° ♁ 54'37	
max. Earth dist.	390 Nov 14 j 09:43	22° ♁ 49'02	1.45004 AU	max. Earth dist.	391 Oct 28 j 04:23	7° ♁ 09'25	1.44914 AU
	390 Nov 18 j 23:11	0° ♁		evening rise	391 Nov 10 j 14:02	28° ♁ 05'54	
evening rise	390 Nov 30 j 14:47	18° ♁ 33'02			391 Nov 11 j 19:24	0° ♁	
	390 Dec 07 j 17:41	0° ♁		greatest brilliancy	391 Nov 22 j 23:01	17° ♁ 10'37	-0.7m
evening max el	390 Dec 21 j 21:36	20° ♁ 12'41	18°50'18		391 Dec 02 j 00:24	0° ♁	
asc. node	390 Dec 24 j 18:23	22° ♁ 40'05		evening max el	391 Dec 05 j 04:57	3° ♁ 40'45	19°37'15
retrograde	390 Dec 28 j 16:10	24° ♁ 01'46		asc. node	391 Dec 11 j 15:26	7° ♁ 51'46	
evening set	390 Dec 31 j 20:50	23° ♁ 03'15		retrograde	391 Dec 12 j 13:07	7° ♁ 56'20	
inferior conj	391 Jan 06 j 13:59	17° ♁ 20'35	3°26'15	evening set	391 Dec 16 j 00:57	6° ♁ 44'53	
minimum elong	391 Jan 06 j 11:38	17° ♁ 27'51	3°25'50	inferior conj	391 Dec 21 j 13:24	0° ♁ 47'37	2°56'06
min. Earth dist.	391 Jan 08 j 06:55	15° ♁ 14'39	0.65334 AU	minimum elong	391 Dec 21 j 10:38	0° ♁ 56'40	2°55'22
morning rise	391 Jan 12 j 02:05	11° ♁ 11'15			391 Dec 22 j 03:54	30° ♁	
direct	391 Jan 18 j 17:15	8° ♁ 19'29		min. Earth dist.	391 Dec 22 j 16:07	29° ♁ 20'02	0.66476 AU
morning max el	391 Jan 31 j 20:18	16° ♁ 00'29	26°51'43	morning rise	391 Dec 26 j 20:05	24° ♁ 35'13	
desc. node	391 Feb 02 j 03:29	17° ♁ 20'51		direct	392 Jan 01 j 23:08	21° ♁ 52'01	
	391 Feb 12 j 10:22	0° ♁		morning max el	392 Jan 14 j 05:31	29° ♁ 09'06	25°43'02
	391 Mar 03 j 08:28	0° ♁			392 Jan 15 j 01:22	0° ♁	
morning set	391 Mar 08 j 16:04	9° ♁ 50'59		desc. node	392 Jan 20 j 00:33	5° ♁ 38'21	
max. Earth dist.	391 Mar 13 j 01:44	18° ♁ 29'27	1.34358 AU		392 Feb 06 j 06:17	0° ♁	
superior conj	391 Mar 17 j 03:09	26° ♁ 48'16	-0°56'06	morning set	392 Feb 19 j 11:49	22° ♁ 31'49	
minimum elong	391 Mar 17 j 05:52	27° ♁ 02'21	0°55'36		392 Feb 23 j 11:38	0° ♁	
	391 Mar 18 j 15:51	0° ♁		max. Earth dist.	392 Feb 23 j 07:17	29° ♁ 39'16	1.35923 AU
asc. node	391 Mar 22 j 17:41	8° ♁ 35'13		superior conj	392 Feb 28 j 20:49	10° ♁ 33'33	-1°21'34

































































































































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evening rise	392 Mar 07 j 20:45	26° H 52'35		minimum elong	393 Feb 11 j 07:04	24° \approx 00'04	1°42'55
asc. node	392 Mar 08 j 14:44	28° H 23'52			393 Feb 14 j 09:06	0° H	
	392 Mar 09 j 09:49	0° Y		evening rise	393 Feb 19 j 20:31	10° H 50'06	
evening max el	392 Mar 25 j 17:38	25° Y 48'44	20°03'19	asc. node	393 Feb 23 j 11:48	17° H 55'36	
	392 Mar 31 j 23:03	0° B			393 Mar 02 j 09:04	0° Y	
retrograde	392 Apr 05 j 00:55	0° B 45'46		evening max el	393 Mar 08 j 12:49	7° Y 47'49	19°05'19
evening set	392 Apr 07 j 02:56	0° B 34'30		retrograde	393 Mar 17 j 05:04	11° Y 58'54	
	392 Apr 09 j 07:38	30° K Y		evening set	393 Mar 19 j 10:28	11° Y 43'35	
inferior conj	392 Apr 16 j 00:58	26° Y 35'09	0°16'16	inferior conj	393 Mar 27 j 13:58	7° Y 30'45	1°57'56
minimum elong	392 Apr 16 j 01:42	26° Y 34'03	0°16'01	minimum elong	393 Mar 27 j 17:59	7° Y 23'47	1°56'43
desc. node	392 Apr 16 j 23:42	26° Y 00'50		min. Earth dist.	393 Mar 30 j 15:26	5° Y 24'52	0.56743 AU
min. Earth dist.	392 Apr 17 j 23:57	25° Y 24'32	0.55427 AU	desc. node	393 Apr 03 j 20:44	2° Y 59'40	
morning rise	392 Apr 24 j 22:24	22° Y 09'38		morning rise	393 Apr 04 j 22:32	2° Y 32'19	
direct	392 Apr 28 j 21:30	21° Y 35'10		direct	393 Apr 10 j 00:01	1° Y 32'13	
morning max el	392 May 12 j 15:20	28° Y 23'04	23°56'33	morning max el	393 Apr 24 j 05:57	8° Y 52'46	25°33'31
	392 May 14 j 06:19	0° B			393 May 10 j 01:07	0° B	
	392 Jun 02 j 15:43	0° II		morning set	393 May 21 j 11:38	21° B 49'48	
asc. node	392 Jun 04 j 14:01	3° II 55'29		asc. node	393 May 22 j 11:04	23° B 53'59	
morning set	392 Jun 05 j 23:48	6° II 51'42			393 May 25 j 06:56	0° II	
superior conj	392 Jun 13 j 00:47	22° II 00'13	1°18'41	superior conj	393 May 28 j 11:21	6° II 57'43	0°59'44
minimum elong	392 Jun 12 j 22:18	21° II 46'51	1°18'21	minimum elong	393 May 28 j 09:07	6° II 45'29	0°59'20
max. Earth dist.	392 Jun 15 j 00:44	26° II 17'36	1.33339 AU	max. Earth dist.	393 May 29 j 09:40	8° II 59'41	1.32649 AU
	392 Jun 16 j 18:44	0° E		evening rise	393 Jun 04 j 13:27	22° II 07'56	
evening rise	392 Jun 20 j 10:56	7° E 34'14			393 Jun 08 j 11:27	0° E	
	392 Jul 02 j 15:28	0° L			393 Jun 26 j 15:19	0° L	
desc. node	392 Jul 13 j 23:02	16° L 58'12		desc. node	393 Jun 30 j 20:02	5° L 19'42	
evening max el	392 Jul 23 j 23:43	28° L 32'11	27°25'13	evening max el	393 Jul 06 j 07:26	11° L 12'25	27°14'23
	392 Jul 25 j 14:09	0° P		retrograde	393 Jul 20 j 03:54	18° L 28'52	
retrograde	392 Aug 06 j 15:02	5° P 51'32		evening set	393 Jul 27 j 07:05	16° L 07'09	
evening set	392 Aug 13 j 19:15	3° P 11'25		min. Earth dist.	393 Jul 30 j 21:30	13° L 19'17	0.61904 AU
	392 Aug 17 j 09:52	30° R L		inferior conj	393 Aug 02 j 22:45	10° L 32'32	-4°13'15
min. Earth dist.	392 Aug 17 j 10:36	29° L 58'10	0.63717 AU	minimum elong	393 Aug 03 j 03:21	10° L 22'03	4°12'22
inferior conj	392 Aug 20 j 00:09	27° L 20'06	-3°29'09	morning rise	393 Aug 10 j 01:03	5° L 33'15	
minimum elong	392 Aug 20 j 04:58	27° L 07'42	3°27'47	direct	393 Aug 12 j 12:25	5° L 06'54	
morning rise	392 Aug 26 j 15:45	22° L 01'01		asc. node	393 Aug 18 j 10:18	7° L 41'30	
direct	392 Aug 29 j 05:15	21° L 28'42		morning max el	393 Aug 19 j 09:29	8° L 34'40	17°55'39
asc. node	392 Aug 31 j 13:15	21° L 55'53			393 Sep 02 j 08:38	0° P	
morning max el	392 Sep 04 j 18:42	24° L 54'37	17°54'37	morning set	393 Sep 04 j 09:25	3° P 41'01	
	392 Sep 08 j 23:04	0° P					
morning set	392 Sep 21 j 14:05	20° P 46'24		superior conj	393 Sep 15 j 02:06	22° P 43'50	1°13'14
	392 Sep 26 j 22:54	0° L		minimum elong	393 Sep 15 j 06:56	23° P 04'42	1°12'42
					393 Sep 19 j 08:40	0° L	
superior conj	392 Oct 04 j 00:48	11° L 50'49	0°38'41	max. Earth dist.	393 Sep 22 j 10:42	5° L 06'54	1.42709 AU
minimum elong	392 Oct 04 j 04:43	12° L 06'54	0°38'09	desc. node	393 Sep 26 j 19:24	12° L 10'23	
desc. node	392 Oct 09 j 22:23	21° L 24'18		evening rise	393 Sep 29 j 09:12	16° L 15'05	
max. Earth dist.	392 Oct 09 j 21:28	21° L 20'38	1.44115 AU		393 Oct 08 j 08:20	0° M	
	392 Oct 15 j 08:55	0° M			393 Oct 30 j 12:32	0° J	
evening rise	392 Oct 19 j 22:35	7° M 05'34		evening max el	393 Oct 31 j 03:33	0° J 38'54	21°51'13
	392 Nov 04 j 03:56	0° J		retrograde	393 Nov 09 j 07:20	6° J 05'40	
evening max el	392 Nov 17 j 07:08	17° J 09'39	20°38'41	evening set	393 Nov 13 j 15:32	4° J 22'39	
retrograde	392 Nov 25 j 10:47	21° J 58'36		asc. node	393 Nov 14 j 09:33	3° J 43'32	
asc. node	392 Nov 27 j 12:30	21° J 34'17			393 Nov 17 j 14:27	30° R M	
evening set	392 Nov 29 j 07:48	20° J 32'16		inferior conj	393 Nov 18 j 23:55	28° M 05'35	1°31'57
inferior conj	392 Dec 04 j 17:25	14° J 23'29	2°17'20	minimum elong	393 Nov 18 j 21:58	28° M 12'20	1°31'11
minimum elong	392 Dec 04 j 14:49	14° J 32'17	2°16'28	min. Earth dist.	393 Nov 19 j 02:34	27° M 56'24	0.67629 AU
min. Earth dist.	392 Dec 05 j 07:27	13° J 35'39	0.67232 AU	morning rise	393 Nov 24 j 04:15	21° M 53'13	
morning rise	392 Dec 09 j 21:39	8° J 10'05		direct	393 Nov 29 j 01:32	19° M 49'13	
direct	392 Dec 15 j 10:09	5° J 44'13		morning max el	393 Dec 08 j 23:33	25° M 42'12	22°51'44
morning max el	392 Dec 26 j 13:47	12° J 23'17	24°19'43		393 Dec 12 j 21:08	0° J	
desc. node	393 Jan 05 j 21:36	24° J 43'30		desc. node	393 Dec 23 j 18:39	14° J 22'31	
	393 Jan 09 j 17:59	0° Z			394 Jan 03 j 07:19	0° Z	
	393 Jan 29 j 01:26	0° \approx		morning set	394 Jan 12 j 07:39	14° Z 23'53	
morning set	393 Jan 31 j 11:06	4° \approx 08'09		max. Earth dist.	394 Jan 16 j 23:39	22° Z 15'22	1.40000 AU
max. Earth dist.	393 Feb 04 j 03:59	10° \approx 42'05	1.37870 AU		394 Jan 21 j 10:01	0° \approx	

superior conj	394 Jan 24 j 17:47	5° \approx 59'36	-1°58'15	minimum elong	395 Jan 06 j 10:26	17° \approx 11'39	2°02'18
minimum elong	394 Jan 24 j 20:22	6° \approx 11'22	1°58'09		395 Jan 13 j 16:07	0° \approx	
evening rise	394 Feb 03 j 11:07	24° \approx 15'41		evening rise	395 Jan 17 j 12:58	7° \approx 01'29	
	394 Feb 06 j 11:52	0° \approx		asc. node	395 Jan 28 j 05:53	25° \approx 41'08	
asc. node	394 Feb 10 j 08:51	7° \approx 03'48			395 Jan 31 j 06:14	0° \approx	
evening max el	394 Feb 19 j 16:41	20° \approx 19'20	18°27'18	evening max el	395 Feb 03 j 02:16	3° \approx 15'31	18°09'17
retrograde	394 Feb 27 j 04:16	24° \approx 00'16		retrograde	395 Feb 09 j 20:49	6° \approx 42'13	
evening set	394 Mar 01 j 14:58	23° \approx 37'52		evening set	395 Feb 12 j 12:22	6° \approx 11'06	
inferior conj	394 Mar 08 j 23:49	19° \approx 05'03	3°05'42	inferior conj	395 Feb 19 j 05:46	1° \approx 17'17	3°40'16
minimum elong	394 Mar 09 j 03:38	18° \approx 57'20	3°04'55	minimum elong	395 Feb 19 j 07:34	1° \approx 13'03	3°40'07
min. Earth dist.	394 Mar 12 j 10:12	16° \approx 20'05	0.58630 AU		395 Feb 20 j 14:34	30° \approx	
morning rise	394 Mar 16 j 13:42	13° \approx 37'30		min. Earth dist.	395 Feb 22 j 11:23	28° \approx 16'52	0.60736 AU
desc. node	394 Mar 21 j 17:47	12° \approx 03'45		morning rise	395 Feb 26 j 01:00	25° \approx 29'48	
direct	394 Mar 22 j 15:41	12° \approx 01'35		direct	395 Mar 04 j 19:01	23° \approx 17'18	
morning max el	394 Apr 06 j 00:05	19° \approx 41'03	26°51'17	desc. node	395 Mar 08 j 14:50	23° \approx 56'48	
	394 Apr 14 j 18:57	0° \approx			395 Mar 17 j 20:25	0° \approx	
	394 May 02 j 15:17	0° \approx		morning max el	395 Mar 19 j 00:33	1° \approx 07'20	27°37'27
morning set	394 May 05 j 21:49	6° \approx 41'38			395 Apr 08 j 22:22	0° \approx	
asc. node	394 May 09 j 08:06	14° \approx 00'31		morning set	395 Apr 20 j 04:37	21° \approx 21'10	
					395 Apr 24 j 06:52	0° \approx	
superior conj	394 May 12 j 23:05	21° \approx 56'17	0°37'32	asc. node	395 Apr 26 j 05:09	4° \approx 10'54	
minimum elong	394 May 12 j 21:30	21° \approx 47'36	0°37'12	max. Earth dist.	395 Apr 26 j 10:13	4° \approx 38'33	1.32372 AU
max. Earth dist.	394 May 12 j 22:06	21° \approx 50'55	1.32326 AU				
	394 May 16 j 15:28	0° \approx		superior conj	395 Apr 27 j 10:20	6° \approx 50'23	0°12'51
evening rise	394 May 19 j 21:08	6° \approx 55'06		minimum elong	395 Apr 27 j 09:45	6° \approx 47'11	0°12'43
	394 Jun 01 j 00:46	0° \approx		behind sun begin	395 Apr 27 j 06:43	6° \approx 30'36	
desc. node	394 Jun 17 j 17:03	22° \approx 30'01		behind sun end	395 Apr 27 j 12:47	7° \approx 03'46	
evening max el	394 Jun 18 j 09:03	23° \approx 08'47	26°30'30	evening rise	395 May 04 j 07:51	21° \approx 48'32	
	394 Jun 29 j 08:22	0° \approx			395 May 08 j 07:23	0° \approx	
retrograde	394 Jul 02 j 08:48	0° \approx			395 May 27 j 02:14	0° \approx	
	394 Jul 05 j 08:14	30° \approx		evening max el	395 May 31 j 03:39	4° \approx 19'30	25°17'29
evening set	394 Jul 08 j 23:40	28° \approx 32'06		desc. node	395 Jun 04 j 14:04	8° \approx 00'22	
min. Earth dist.	394 Jul 12 j 22:13	25° \approx 55'02	0.59874 AU	retrograde	395 Jun 14 j 04:16	11° \approx 28'33	
inferior conj	394 Jul 16 j 06:09	23° \approx 16'27	-4°42'12	evening set	395 Jun 19 j 17:21	10° \approx 17'00	
minimum elong	394 Jul 16 j 08:38	23° \approx 11'29	4°41'59	min. Earth dist.	395 Jun 24 j 15:26	7° \approx 32'18	0.57848 AU
morning rise	394 Jul 23 j 19:36	18° \approx 39'39		inferior conj	395 Jun 27 j 18:54	5° \approx 22'26	-4°45'10
direct	394 Jul 26 j 07:06	18° \approx 17'18		minimum elong	395 Jun 27 j 17:08	5° \approx 25'29	4°45'05
morning max el	394 Aug 02 j 20:14	21° \approx 56'30	18°16'11	morning rise	395 Jul 05 j 19:37	1° \approx 07'57	
asc. node	394 Aug 05 j 07:20	24° \approx 38'31		direct	395 Jul 08 j 08:49	0° \approx 48'19	
	394 Aug 09 j 02:49	0° \approx		morning max el	395 Jul 16 j 23:54	4° \approx 51'13	18°57'18
morning set	394 Aug 18 j 19:22	17° \approx 17'53		asc. node	395 Jul 23 j 04:22	12° \approx 31'59	
	394 Aug 25 j 13:04	0° \approx			395 Aug 01 j 22:13	0° \approx	
				morning set	395 Aug 02 j 15:39	1° \approx 25'34	
superior conj	394 Aug 28 j 04:29	4° \approx 51'30	1°34'59				
minimum elong	394 Aug 28 j 07:50	5° \approx 06'42	1°34'43	superior conj	395 Aug 11 j 02:24	17° \approx 57'48	1°45'17
max. Earth dist.	394 Sep 04 j 18:22	18° \approx 13'08	1.40869 AU	minimum elong	395 Aug 11 j 03:38	18° \approx 03'42	1°45'14
evening rise	394 Sep 09 j 13:43	26° \approx 15'05			395 Aug 17 j 13:51	0° \approx	
	394 Sep 11 j 21:10	0° \approx		max. Earth dist.	395 Aug 17 j 21:42	0° \approx 35'14	1.38846 AU
desc. node	394 Sep 13 j 16:24	2° \approx 52'24		evening rise	395 Aug 21 j 18:49	7° \approx 24'30	
	394 Oct 02 j 02:19	0° \approx		desc. node	395 Aug 31 j 13:24	23° \approx 26'17	
evening max el	394 Oct 13 j 18:53	14° \approx 09'41	23°10'17		395 Sep 04 j 20:26	0° \approx	
retrograde	394 Oct 24 j 01:20	20° \approx 14'53		evening max el	395 Sep 26 j 07:10	27° \approx 43'42	24°29'49
evening set	394 Oct 28 j 22:29	18° \approx 14'07			395 Sep 28 j 17:58	0° \approx	
asc. node	394 Nov 01 j 06:35	14° \approx 36'05		retrograde	395 Oct 07 j 15:42	4° \approx 22'11	
inferior conj	394 Nov 03 j 07:07	11° \approx 52'27	0°41'34	evening set	395 Oct 13 j 03:00	2° \approx 04'03	
minimum elong	394 Nov 03 j 06:09	11° \approx 55'46	0°41'10		395 Oct 15 j 04:19	30° \approx	
min. Earth dist.	394 Nov 02 j 23:11	12° \approx 19'42	0.67689 AU	min. Earth dist.	395 Oct 17 j 18:54	26° \approx 43'10	0.67431 AU
morning rise	394 Nov 08 j 13:44	5° \approx 43'11		inferior conj	395 Oct 18 j 13:14	25° \approx 41'46	-0°12'25
direct	394 Nov 12 j 20:25	4° \approx 01'59		minimum elong	395 Oct 18 j 13:32	25° \approx 40'45	0°12'17
morning max el	394 Nov 21 j 14:19	9° \approx 09'19	21°27'44	transit middle	395 Oct 18 j 13:32	25° \approx 40'45	0°12'17
	394 Dec 07 j 15:15	0° \approx		transit begin	395 Oct 18 j 11:45	25° \approx 46'46	
desc. node	394 Dec 10 j 15:40	4° \approx 25'58		transit end	395 Oct 18 j 15:20	25° \approx 34'44	
morning set	394 Dec 22 j 23:19	23° \approx 18'08		asc. node	395 Oct 19 j 03:37	24° \approx 53'49	
	394 Dec 27 j 03:46	0° \approx		morning rise	395 Oct 24 j 00:08	19° \approx 38'02	
max. Earth dist.	394 Dec 30 j 00:41	4° \approx 41'24	1.42020 AU	direct	395 Oct 27 j 17:50	18° \approx 17'52	
				morning max el	395 Nov 04 j 12:22	22° \approx 46'23	20°13'47
superior conj	395 Jan 06 j 11:21	17° \approx 15'39	-2°02'18		395 Nov 10 j 13:58	0° \approx	

desc. node	395 Nov 27 j 12:40	24°♄46'30		morning set	396 Nov 09 j 23:38	9°♄59'25	
	395 Nov 30 j 22:19	0°♄		desc. node	396 Nov 13 j 09:44	15°♄19'37	
morning set	395 Dec 01 j 20:30	1°♄25'42			396 Nov 22 j 18:29	0°♄	
max. Earth dist.	395 Dec 12 j 08:55	17°♄58'22	1.43664 AU	max. Earth dist.	396 Nov 23 j 23:39	1°♄54'58	1.44723 AU
superior conj	395 Dec 18 j 02:59	27°♄18'34	-1°50'45	superior conj	396 Nov 26 j 17:12	6°♄14'15	-1°20'38
minimum elong	395 Dec 17 j 21:04	26°♄54'15	1°50'21	minimum elong	396 Nov 26 j 08:47	5°♄40'54	1°19'45
	395 Dec 19 j 18:06	0°♄		evening rise	396 Dec 11 j 09:24	29°♄58'54	
evening rise	395 Dec 30 j 21:47	18°♄58'01			396 Dec 11 j 09:40	0°♄	
	396 Jan 06 j 07:00	0°♄		evening max el	396 Dec 31 j 02:42	29°♄49'18	18°30'50
asc. node	396 Jan 15 j 02:56	13°♄37'18			396 Dec 31 j 06:57	0°♄	
evening max el	396 Jan 17 j 14:30	16°♄27'33	18°10'46	asc. node	396 Dec 31 j 23:58	0°♄40'43	
retrograde	396 Jan 24 j 02:19	19°♄53'43		retrograde	397 Jan 06 j 16:29	3°♄26'45	
evening set	396 Jan 26 j 22:29	19°♄12'48		evening set	397 Jan 09 j 17:47	2°♄34'56	
inferior conj	396 Feb 02 j 04:03	13°♄58'46	3°48'54		397 Jan 12 j 22:50	30°♄	
minimum elong	396 Feb 02 j 03:44	13°♄59'36	3°48'54	inferior conj	397 Jan 15 j 14:42	27°♄02'11	3°38'36
min. Earth dist.	396 Feb 04 j 21:09	11°♄06'45	0.62761 AU	minimum elong	397 Jan 15 j 12:53	27°♄07'33	3°38'23
morning rise	396 Feb 08 j 07:59	7°♄59'27		min. Earth dist.	397 Jan 17 j 16:29	24°♄36'22	0.64507 AU
direct	396 Feb 15 j 07:45	5°♄19'56		morning rise	397 Jan 21 j 07:29	20°♄55'54	
desc. node	396 Feb 23 j 11:52	8°♄20'08		direct	397 Jan 28 j 03:53	18°♄04'17	
morning max el	396 Feb 29 j 06:27	13°♄13'29	27°46'45	desc. node	397 Feb 09 j 08:55	24°♄38'26	
	396 Mar 13 j 17:35	0°♄		morning max el	397 Feb 10 j 15:23	25°♄52'27	27°20'33
	396 Mar 31 j 08:58	0°♄			397 Feb 14 j 11:08	0°♄	
morning set	396 Apr 03 j 05:49	5°♄40'42			397 Mar 07 j 06:06	0°♄	
max. Earth dist.	396 Apr 08 j 18:00	17°♄08'29	1.32802 AU	morning set	397 Mar 17 j 22:39	19°♄31'02	
				max. Earth dist.	397 Mar 22 j 17:38	29°♄09'06	1.33657 AU
					397 Mar 23 j 03:29	0°♄	
superior conj	396 Apr 10 j 19:24	21°♄34'00	-0°13'33	superior conj	397 Mar 26 j 00:22	6°♄00'41	-0°40'39
minimum elong	396 Apr 10 j 20:02	21°♄37'30	0°13'24	minimum elong	397 Mar 26 j 02:20	6°♄11'08	0°40'15
behind sun begin	396 Apr 10 j 17:13	21°♄22'17		asc. node	397 Mar 29 j 23:16	14°♄26'03	
behind sun end	396 Apr 10 j 22:51	21°♄52'43		evening rise	397 Apr 02 j 06:45	21°♄27'20	
asc. node	396 Apr 12 j 02:12	24°♄20'51			397 Apr 06 j 11:16	0°♄	
	396 Apr 14 j 16:44	0°♄		evening max el	397 Apr 23 j 11:04	25°♄34'40	22°11'11
evening rise	396 Apr 17 j 19:39	6°♄41'26			397 Apr 29 j 07:30	0°♄	
	396 Apr 30 j 04:00	0°♄		retrograde	397 May 06 j 06:38	1°♄52'36	
evening max el	396 May 11 j 18:11	14°♄59'04	23°46'12	desc. node	397 May 08 j 08:08	1°♄43'07	
desc. node	396 May 21 j 11:05	21°♄15'10		evening set	397 May 09 j 02:08	1°♄35'07	
retrograde	396 May 25 j 11:49	21°♄52'08			397 May 13 j 16:49	30°♄	
evening set	396 May 29 j 14:02	21°♄15'10		min. Earth dist.	397 May 17 j 17:28	27°♄53'15	0.55147 AU
min. Earth dist.	396 Jun 05 j 05:00	18°♄07'44	0.56156 AU	inferior conj	397 May 18 j 11:31	27°♄27'51	-2°47'04
inferior conj	396 Jun 07 j 11:33	16°♄44'58	-4°09'08	minimum elong	397 May 18 j 04:32	27°♄37'40	2°44'56
minimum elong	396 Jun 07 j 05:15	16°♄54'36	4°07'57	morning rise	397 May 27 j 08:32	23°♄33'45	
morning rise	396 Jun 15 j 23:15	12°♄46'58		direct	397 May 30 j 06:30	23°♄14'38	
direct	396 Jun 18 j 15:20	12°♄28'51		morning max el	397 Jun 11 j 00:20	28°♄44'11	21°21'28
morning max el	396 Jun 28 j 17:46	17°♄09'26	19°59'29		397 Jun 12 j 07:22	0°♄	
	396 Jul 08 j 09:18	0°♄		asc. node	397 Jun 25 j 22:29	20°♄18'45	
asc. node	396 Jul 09 j 01:25	1°♄09'06			397 Jun 30 j 19:22	0°♄	
morning set	396 Jul 16 j 19:10	15°♄55'54		morning set	397 Jul 01 j 03:23	0°♄41'21	
	396 Jul 23 j 17:04	0°♄					
superior conj	396 Jul 24 j 14:31	1°♄47'35	1°46'18	superior conj	397 Jul 08 j 12:33	16°♄07'32	1°39'58
minimum elong	396 Jul 24 j 13:56	1°♄44'41	1°46'17	minimum elong	397 Jul 08 j 10:45	15°♄58'13	1°39'51
max. Earth dist.	396 Jul 30 j 02:03	12°♄29'21	1.36900 AU	max. Earth dist.	397 Jul 12 j 13:20	24°♄21'23	1.35225 AU
evening rise	396 Aug 02 j 23:07	19°♄41'05			397 Jul 15 j 10:05	0°♄	
	396 Aug 08 j 20:26	0°♄		evening rise	397 Jul 16 j 21:50	2°♄51'31	
desc. node	396 Aug 17 j 10:26	13°♄47'22			397 Aug 01 j 18:30	0°♄	
	396 Aug 28 j 21:50	0°♄		desc. node	397 Aug 04 j 07:28	3°♄48'28	
evening max el	396 Sep 07 j 18:50	11°♄21'38	25°42'33	evening max el	397 Aug 21 j 06:55	24°♄57'32	26°40'45
retrograde	396 Sep 20 j 01:32	18°♄23'29			397 Aug 27 j 14:00	0°♄	
evening set	396 Sep 26 j 03:20	15°♄50'24		retrograde	397 Sep 03 j 06:10	2°♄11'53	
min. Earth dist.	396 Sep 30 j 11:20	11°♄05'01	0.66850 AU		397 Sep 09 j 05:32	30°♄	
inferior conj	396 Oct 01 j 16:35	9°♄31'46	-1°08'29	evening set	397 Sep 09 j 21:20	29°♄28'50	
minimum elong	396 Oct 01 j 18:19	9°♄26'12	1°07'45	min. Earth dist.	397 Sep 13 j 21:58	25°♄20'34	0.65923 AU
asc. node	396 Oct 05 j 00:38	5°♄35'04		inferior conj	397 Sep 15 j 15:08	23°♄18'02	-2°05'00
morning rise	396 Oct 07 j 09:33	3°♄36'20		minimum elong	397 Sep 15 j 18:20	23°♄08'29	2°03'47
direct	396 Oct 10 j 16:21	2°♄34'06		morning rise	397 Sep 21 j 15:49	17°♄34'12	
morning max el	396 Oct 17 j 17:57	6°♄33'07	19°13'47	asc. node	397 Sep 21 j 21:41	17°♄26'34	
	396 Nov 03 j 13:21	0°♄					

direct	397 Sep 24 j 14:03	16°  46'15		morning max el	398 Sep 14 j 20:35	4°  18'00	18°02'21
morning max el	397 Oct 01 j 05:30	20°  25'22	18°29'39		398 Oct 01 j 20:51	0° 	
	397 Oct 08 j 14:49	0° 		morning set	398 Oct 02 j 12:34	1° 	06'10
morning set	397 Oct 21 j 03:52	19°  51'11					
	397 Oct 27 j 11:54	0° 		superior conj	398 Oct 16 j 03:10	23° 	31'46 0°13'26
desc. node	397 Oct 31 j 06:47	6°  00'51		minimum elong	398 Oct 16 j 04:46	23° 	38'11 0°13'12
				behind sun begin	398 Oct 15 j 22:36	23° 	13'24
superior conj	397 Nov 05 j 18:02	14°  38'27	-0°35'31	behind sun end	398 Oct 16 j 10:56	24° 	02'56
minimum elong	397 Nov 05 j 13:23	14°  20'10	0°34'55	desc. node	398 Oct 18 j 03:48	26° 	46'23
max. Earth dist.	397 Nov 06 j 18:21	16°  14'03	1.45066 AU		398 Oct 20 j 04:31	0° 	
	397 Nov 15 j 12:39	0° 		max. Earth dist.	398 Oct 20 j 13:14	0° 	34'32 1.44663 AU
evening rise	397 Nov 21 j 21:24	10°  20'07		evening rise	398 Nov 01 j 12:50	19° 	16'54
greatest brilliancy	397 Dec 01 j 09:45	25°  02'26	-0.8m		398 Nov 08 j 12:23	0° 	
	397 Dec 04 j 14:54	0° 		greatest brilliancy	398 Nov 15 j 10:52	10° 	27'18 -0.6m
evening max el	397 Dec 14 j 12:26	13°  16'12	19°08'23	evening max el	398 Nov 27 j 17:40	26° 	44'21 20°01'44
asc. node	397 Dec 18 j 20:59	16°  37'37			398 Dec 01 j 14:47	0° 	
retrograde	397 Dec 21 j 11:48	17°  15'08		retrograde	398 Dec 05 j 09:22	1° 	13'26
evening set	397 Dec 24 j 19:25	16°  11'09		asc. node	398 Dec 05 j 18:02	1° 	12'42
inferior conj	397 Dec 30 j 10:18	10°  32'15	3°14'39		398 Dec 08 j 22:29	30° 	13'26
minimum elong	397 Dec 30 j 07:42	10°  30'12	3°14'05	evening set	398 Dec 09 j 00:56	29° 	55'42
min. Earth dist.	397 Dec 31 j 20:57	8°  32'07	0.65872 AU	inferior conj	398 Dec 14 j 11:55	23° 	52'53 2°40'33
morning rise	398 Jan 04 j 19:43	4°  11'19		minimum elong	398 Dec 14 j 09:11	24° 	02'04 2°39'44
direct	398 Jan 11 j 06:15	1°  22'00		min. Earth dist.	398 Dec 15 j 08:58	22° 	42'35 0.66843 AU
morning max el	398 Jan 24 j 01:03	8°  53'43	26°24'59	morning rise	398 Dec 19 j 17:15	17° 	39'53
desc. node	398 Jan 27 j 06:00	12°  19'47		direct	398 Dec 25 j 14:11	15° 	03'35
	398 Feb 09 j 15:10	0° 		morning max el	399 Jan 06 j 09:54	22° 	05'48 25°08'51
	398 Feb 27 j 16:54	0° 			399 Jan 13 j 08:14	0° 	
morning set	398 Mar 01 j 03:29	2°  41'11		desc. node	399 Jan 14 j 03:03	0° 	59'20
max. Earth dist.	398 Mar 05 j 06:18	10°  36'38	1.34970 AU		399 Feb 02 j 22:02	0° 	
				morning set	399 Feb 11 j 15:14	14° 	56'10
superior conj	398 Mar 09 j 22:58	20°  03'31	-1°07'12	max. Earth dist.	399 Feb 15 j 07:45	21° 	40'47 1.36715 AU
minimum elong	398 Mar 10 j 02:09	20°  19'53	1°06'38		399 Feb 19 j 16:37	0° 	
	398 Mar 14 j 17:55	0° 					
asc. node	398 Mar 16 j 20:20	4°  22'18		superior conj	399 Feb 21 j 12:13	3° 	33'27 -1°31'24
evening rise	398 Mar 17 j 15:14	6°  00'01		minimum elong	399 Feb 21 j 16:08	3° 	52'47 1°30'54
	398 Mar 30 j 23:49	0° 		evening rise	399 Mar 01 j 18:52	20° 	12'01
evening max el	398 Apr 05 j 12:35	6°  33'37	20°45'19	asc. node	399 Mar 03 j 17:22	24° 	04'13
retrograde	398 Apr 16 j 19:38	12°  01'25			399 Mar 06 j 18:52	0° 	
evening set	398 Apr 18 j 23:47	11°  50'05		evening max el	399 Mar 19 j 01:22	18° 	09'22 19°36'10
desc. node	398 Apr 25 j 05:09	9°  32'40		retrograde	399 Mar 28 j 15:22	22° 	45'48
inferior conj	398 Apr 28 j 05:40	7°  52'20	-0°52'12	evening set	399 Mar 30 j 18:03	22° 	33'21
minimum elong	398 Apr 28 j 03:12	7°  55'52	0°51'18	inferior conj	399 Apr 08 j 08:32	18° 	29'08 1°03'02
min. Earth dist.	398 Apr 29 j 06:20	7°  17'04	0.55048 AU	minimum elong	399 Apr 08 j 11:07	18° 	25'00 1°02'09
morning rise	398 May 07 j 05:59	3°  43'41		min. Earth dist.	399 Apr 10 j 20:42	16° 	53'53 0.55891 AU
direct	398 May 10 j 16:59	3°  17'54		desc. node	399 Apr 12 j 02:12	16° 	09'24
morning max el	398 May 23 j 20:57	9°  38'53	22°58'13	morning rise	399 Apr 17 j 01:35	13° 	49'45
	398 Jun 07 j 15:18	0° 		direct	399 Apr 21 j 11:13	13° 	06'16
asc. node	398 Jun 12 j 19:34	9°  22'42		morning max el	399 May 05 j 12:08	20° 	09'57 24°39'20
morning set	398 Jun 15 j 14:20	15°  23'6'08			399 May 13 j 20:57	0° 	
	398 Jun 22 j 08:17	0° 		asc. node	399 May 30 j 16:38	29° 	43'29
					399 May 30 j 19:47	0° 	
superior conj	398 Jun 22 j 17:19	0°  48'11	1°27'50	morning set	399 May 31 j 02:16	0° 	34'08
minimum elong	398 Jun 22 j 14:55	0°  35'26	1°27'34				
max. Earth dist.	398 Jun 25 j 10:05	6°  30'28	1.33915 AU	superior conj	399 Jun 07 j 02:20	15° 	41'07 1°11'06
evening rise	398 Jun 30 j 10:17	16°  34'25		minimum elong	399 Jun 06 j 23:54	15° 	27'55 1°10'43
	398 Jul 07 j 11:42	0° 		max. Earth dist.	399 Jun 08 j 15:07	19° 	00'23 1.32992 AU
desc. node	398 Jul 22 j 04:28	23°  02'59			399 Jun 13 j 20:08	0° 	
	398 Jul 27 j 05:38	0° 		evening rise	399 Jun 14 j 08:31	1° 	03'17
evening max el	398 Aug 03 j 18:43	8°  21'02	27°16'50		399 Jun 30 j 10:41	0° 	
retrograde	398 Aug 17 j 05:06	15°  23'53		desc. node	399 Jul 09 j 01:29	12° 	02'13'02
evening set	398 Aug 24 j 06:24	12°  25'51		evening max el	399 Jul 17 j 04:24	21° 	02'19'52 27°24'34
min. Earth dist.	398 Aug 28 j 00:29	9°  23'19	0.64633 AU	retrograde	399 Jul 30 j 22:07	28° 	02'38'42
inferior conj	398 Aug 30 j 06:36	6°  25'57	-2°59'44	evening set	399 Aug 07 j 03:13	26° 	04'18
minimum elong	398 Aug 30 j 11:01	6° 43'55	2°58'17	min. Earth dist.	399 Aug 10 j 17:14	23°	03'36 0.62982 AU
morning rise	398 Sep 05 j 16:27	1°	27'04	inferior conj	399 Aug 13 j 12:16	20°	01'47 -3°49'13
direct	398 Sep 08 j 08:28	0°	49'57	minimum elong	399 Aug 13 j 17:10	20°	07'46 3°47'59
asc. node	398 Sep 08 j 18:46	0°	50'55	morning rise	399 Aug 20 j 08:23	15°	09'07

direct	399 Aug 22 j 20:39	14°♎39'42		minimum elong	400 Jul 26 j 08:47	3°♎12'25	4°27'25
asc. node	399 Aug 26 j 15:50	15°♎48'21			400 Jul 30 j 11:41	30°♎☿	
morning max el	399 Aug 29 j 12:24	18°♎05'11	17°52'47	morning rise	400 Aug 02 j 11:51	28°☿♎31'12	
	399 Sep 07 j 02:32	0°♎		direct	400 Aug 04 j 22:50	28°☿♎06'55	
morning set	399 Sep 14 j 21:03	13°♎29'36			400 Aug 10 j 03:21	0°♎	
	399 Sep 24 j 08:49	0°♎		morning max el	400 Aug 12 j 01:53	1°♎38'38	18°01'58
				asc. node	400 Aug 12 j 12:53	2°♎06'03	
superior conj	399 Sep 26 j 12:40	3°♎38'41	0°54'54	morning set	400 Aug 27 j 23:13	26°♎43'46	
minimum elong	399 Sep 26 j 17:24	3°♎58'31	0°54'18		400 Aug 29 j 17:38	0°♎	
max. Earth dist.	399 Oct 03 j 04:50	14°♎36'55	1.43580 AU				
desc. node	399 Oct 05 j 00:48	17°♎33'25		superior conj	400 Sep 07 j 01:15	15°♎05'16	1°23'58
evening rise	399 Oct 11 j 19:59	28°♎15'03		minimum elong	400 Sep 07 j 05:38	15°♎24'34	1°23'32
	399 Oct 12 j 23:09	0°♎		max. Earth dist.	400 Sep 14 j 15:14	28°♎05'42	1.41961 AU
	399 Nov 02 j 08:41	0°♎			400 Sep 15 j 18:49	0°♎	
evening max el	399 Nov 10 j 17:17	10°♎13'07	21°08'21	evening rise	400 Sep 20 j 12:44	7°♎42'14	
retrograde	399 Nov 19 j 06:55	15°♎18'24		desc. node	400 Sep 20 j 21:48	8°♎18'22	
asc. node	399 Nov 22 j 15:04	14°♎15'39			400 Oct 05 j 04:09	0°♎	
evening set	399 Nov 23 j 08:23	13°♎45'11		evening max el	400 Oct 23 j 11:21	23°♎42'55	22°24'23
inferior conj	399 Nov 28 j 17:16	7°♎32'11	1°58'47	retrograde	400 Nov 02 j 02:34	29°♎26'34	
minimum elong	399 Nov 28 j 14:54	7°♎40'20	1°57'56	evening set	400 Nov 06 j 15:58	27°♎36'20	
min. Earth dist.	399 Nov 29 j 02:18	7°♎01'05	0.67440 AU	asc. node	400 Nov 08 j 12:07	25°♎48'56	
morning rise	399 Dec 03 j 21:15	1°♎18'46		inferior conj	400 Nov 12 j 00:18	21°♎16'50	1°11'07
	399 Dec 05 j 16:22	30°♎		minimum elong	400 Nov 11 j 22:43	21°♎22'17	1°10'29
direct	399 Dec 09 j 03:08	29°♎02'00		min. Earth dist.	400 Nov 11 j 22:27	21°♎23'11	0.67696 AU
	399 Dec 12 j 21:16	0°♎		morning rise	400 Nov 17 j 05:20	15°♎05'14	
morning max el	399 Dec 19 j 18:33	5°♎22'40	23°42'15	direct	400 Nov 21 j 20:16	13°♎10'49	
desc. node	400 Jan 01 j 00:04	20°♎20'24		morning max el	400 Dec 01 j 05:55	18°♎44'13	22°14'55
	400 Jan 07 j 18:34	0°♎			400 Dec 10 j 14:25	0°♎	
morning set	400 Jan 24 j 03:49	26°♎00'03		desc. node	400 Dec 17 j 21:05	10°♎10'44	
	400 Jan 26 j 11:37	0°♎			400 Dec 30 j 22:54	0°♎	
max. Earth dist.	400 Jan 28 j 02:50	2°♎51'37	1.38770 AU	morning set	401 Jan 03 j 11:46	5°♎39'31	
				max. Earth dist.	401 Jan 08 j 23:35	14°♎43'32	1.40892 AU
superior conj	400 Feb 04 j 12:24	16°♎21'14	-1°50'42				
minimum elong	400 Feb 04 j 15:59	16°♎38'02	1°50'26	superior conj	401 Jan 16 j 18:43	28°♎14'40	-2°01'35
	400 Feb 11 j 14:36	0°♎		minimum elong	401 Jan 16 j 20:06	28°♎20'48	2°01'34
evening rise	400 Feb 13 j 15:07	3°♎56'41			401 Jan 17 j 18:15	0°♎	
asc. node	400 Feb 18 j 14:23	13°♎26'34		evening rise	401 Jan 27 j 00:43	17°♎06'01	
	400 Feb 29 j 15:18	0°♎			401 Feb 03 j 02:00	0°♎	
evening max el	400 Mar 01 j 00:32	0°♎22'46	18°46'39	asc. node	401 Feb 04 j 11:25	2°♎22'41	
retrograde	400 Mar 09 j 03:21	4°♎19'07		evening max el	401 Feb 12 j 07:18	13°♎06'27	18°17'16
evening set	400 Mar 11 j 10:49	4°♎01'11		retrograde	401 Feb 19 j 10:07	16°♎39'04	
	400 Mar 18 j 19:32	30°♎		evening set	401 Feb 21 j 23:02	16°♎13'04	
inferior conj	400 Mar 19 j 06:09	29°♎40'28	2°31'03	inferior conj	401 Mar 01 j 00:54	11°♎31'37	3°24'01
minimum elong	400 Mar 19 j 10:27	29°♎32'33	2°29'55	minimum elong	401 Mar 01 j 03:57	11°♎25'02	3°23'32
min. Earth dist.	400 Mar 22 j 13:35	27°♎15'02	0.57496 AU	min. Earth dist.	401 Mar 04 j 10:46	8°♎36'49	0.59523 AU
morning rise	400 Mar 27 j 07:02	24°♎28'12		morning rise	401 Mar 08 j 06:35	5°♎54'38	
desc. node	400 Mar 28 j 23:15	23°♎50'03		direct	401 Mar 14 j 16:56	4°♎02'13	
direct	400 Apr 01 j 19:34	23°♎13'30		desc. node	401 Mar 15 j 20:17	4°♎05'40	
	400 Apr 15 j 09:02	0°♎		morning max el	401 Mar 29 j 00:17	11°♎47'09	27°15'13
morning max el	400 Apr 16 j 03:46	0°♎44'26	26°09'50		401 Apr 12 j 06:37	0°♎	
	400 May 06 j 17:29	0°♎		morning set	401 Apr 28 j 22:31	0°♎17'12	
morning set	400 May 14 j 13:33	15°♎29'39			401 Apr 28 j 19:12	0°♎	
asc. node	400 May 16 j 13:40	19°♎45'36		asc. node	401 May 03 j 10:42	9°♎54'33	
	400 May 21 j 06:23	0°♎		max. Earth dist.	401 May 05 j 14:23	14°♎37'17	1.32297 AU
superior conj	400 May 21 j 13:34	0°♎39'26	0°50'40	superior conj	401 May 06 j 01:19	15°♎37'19	0°27'20
minimum elong	400 May 21 j 11:34	0°♎28'27	0°50'17	minimum elong	401 May 06 j 00:08	15°♎30'46	0°27'04
max. Earth dist.	400 May 22 j 01:43	1°♎46'01	1.32457 AU	evening rise	401 May 12 j 22:43	0°♎34'20	
evening rise	400 May 28 j 13:28	15°♎43'04			401 May 12 j 16:13	0°♎	
	400 Jun 04 j 19:17	0°♎			401 May 29 j 01:13	0°♎	
desc. node	400 Jun 24 j 22:30	0°♎07'10		evening max el	401 Jun 10 j 08:28	15°♎19'21	26°02'41
	400 Jun 24 j 19:56	0°♎		desc. node	401 Jun 11 j 19:32	16°♎39'32	
evening max el	400 Jun 28 j 09:38	3°♎41'47	26°59'47	retrograde	401 Jun 24 j 09:18	22°♎31'25	
retrograde	400 Jul 12 j 08:09	10°♎58'02		evening set	401 Jun 30 j 14:34	20°♎57'31	
evening set	400 Jul 19 j 07:28	8°♎48'06		min. Earth dist.	401 Jul 04 j 21:11	18°♎19'07	0.58988 AU
min. Earth dist.	400 Jul 22 j 23:45	6°♎06'55	0.61044 AU	inferior conj	401 Jul 08 j 04:42	15°♎50'30	-4°47'28
inferior conj	400 Jul 26 j 04:49	3°♎21'00	-4°28'01	minimum elong	401 Jul 08 j 05:36	15°♎48'47	4°47'26

morning rise	401 Jul 15 j 22:53	11°  23'05		min. Earth dist.	402 Jun 16 j 12:09	29°  29'33	0.57071 AU
direct	401 Jul 18 j 10:55	11°  02'00		inferior conj	402 Jun 19 j 08:51	27°  38'08	-4°35'21
morning max el	401 Jul 26 j 09:56	14°  50'06	18°31'06	minimum elong	402 Jun 19 j 04:58	27°  44'29	4°34'57
asc. node	401 Jul 30 j 09:55	19°  28'57		morning rise	402 Jun 27 j 14:16	23°  31'40	
	401 Aug 05 j 22:54	0°  Ω		direct	402 Jun 30 j 04:48	23°  31'40	
morning set	401 Aug 11 j 14:04	10°  Ω35'24		morning max el	402 Jul 09 j 09:37	27°  31'40	19°21'14
					402 Jul 11 j 18:58	0°  Ω	
superior conj	401 Aug 20 j 12:40	27°  Ω39'51	1°40'36	asc. node	402 Jul 17 j 06:58	7°  Ω42'10	
minimum elong	401 Aug 20 j 15:07	27°  Ω51'15	1°40'28	morning set	402 Jul 26 j 13:46	24°  Ω53'36	
	401 Aug 21 j 18:57	0°  ♍			402 Jul 29 j 03:00	0°  Ω	
max. Earth dist.	401 Aug 27 j 20:45	10°  ♍53'03	1.40019 AU				
evening rise	401 Sep 01 j 03:36	18°  ♍11'43		superior conj	402 Aug 03 j 17:11	11°  Ω06'01	1°46'43
desc. node	401 Sep 07 j 18:50	28°  ♍57'47		minimum elong	402 Aug 03 j 17:35	11°  Ω07'58	1°46'43
	401 Sep 08 j 10:40	0°  ♌		max. Earth dist.	402 Aug 10 j 00:11	23°  Ω01'56	1.37997 AU
	401 Sep 29 j 14:34	0°  ♌		evening rise	402 Aug 13 j 18:59	29°  Ω50'20	
evening max el	401 Oct 06 j 01:18	7°  ♌15'48	23°44'28		402 Aug 13 j 21:10	0°  ♍	
retrograde	401 Oct 16 j 19:02	13°  ♌35'28		desc. node	402 Aug 25 j 15:53	19°  ♍27'03	
evening set	401 Oct 21 j 22:05	11°  ♌27'23			402 Sep 01 j 18:04	0°  ♌	
asc. node	401 Oct 26 j 09:09	6°  ♌20'21		evening max el	402 Sep 18 j 13:11	20°  ♌52'06	25°02'03
inferior conj	401 Oct 27 j 07:16	5°  ♌05'11	0°19'03	retrograde	402 Sep 30 j 07:26	27°  ♌41'15	
minimum elong	401 Oct 27 j 06:48	5°  ♌06'45	0°18'52	evening set	402 Oct 06 j 01:05	25°  ♌16'12	
min. Earth dist.	401 Oct 26 j 19:00	5°  ♌46'58	0.67627 AU	min. Earth dist.	402 Oct 10 j 13:31	20°  ♌10'28	0.67228 AU
	401 Oct 31 j 10:59	30°  ♌		inferior conj	402 Oct 11 j 12:26	18°  ♌55'11	-0°36'00
morning rise	401 Nov 01 j 15:28	28°  ♌57'54		minimum elong	402 Oct 11 j 13:20	18°  ♌52'13	0°35'37
direct	401 Nov 05 j 16:31	27°  ♌25'43		asc. node	402 Oct 13 j 06:11	16°  ♌41'14	
	401 Nov 11 j 12:17	0°  ♌		morning rise	402 Oct 17 j 01:43	12°  ♌54'53	
morning max el	401 Nov 13 j 23:31	2°  ♌15'02	20°54'40	direct	402 Oct 20 j 14:35	11°  ♌42'44	
desc. node	401 Dec 04 j 18:06	0°  ♌22'18		morning max el	402 Oct 28 j 00:57	15°  ♌57'02	19°46'30
	401 Dec 04 j 12:10	0°  ♌			402 Nov 07 j 21:09	0°  ♌	
morning set	401 Dec 13 j 17:14	14°  ♌06'24		desc. node	402 Nov 21 j 15:08	20°  ♌49'14	
max. Earth dist.	401 Dec 22 j 03:51	27°  ♌33'10	1.42789 AU	morning set	402 Nov 22 j 13:59	22°  ♌17'28	
	401 Dec 23 j 15:50	0°  ♌			402 Nov 27 j 13:05	0°  ♌	
				max. Earth dist.	402 Dec 04 j 15:53	11°  ♌12'19	1.44198 AU
superior conj	401 Dec 29 j 01:45	9°  ♌00'50	-1°59'34				
minimum elong	401 Dec 28 j 22:44	8°  ♌48'06	1°59'27	superior conj	402 Dec 09 j 06:03	18°  ♌33'44	-1°40'14
evening rise	402 Jan 09 j 19:50	29°  ♌31'47		minimum elong	402 Dec 08 j 22:26	18°  ♌02'59	1°39'36
	402 Jan 10 j 02:10	0°  ♌			402 Dec 16 j 05:36	0°  ♌	
asc. node	402 Jan 22 j 08:28	20°  ♌43'50		evening rise	402 Dec 22 j 20:13	11°  ♌06'35	
evening max el	402 Jan 26 j 18:25	26°  ♌10'36	18°07'35		403 Jan 03 j 04:20	0°  ♌	
retrograde	402 Feb 02 j 08:45	29°  ♌35'15		asc. node	403 Jan 09 j 05:31	8°  ♌19'45	
evening set	402 Feb 05 j 02:22	28°  ♌59'54		evening max el	403 Jan 10 j 06:58	9°  ♌27'59	18°17'00
inferior conj	402 Feb 11 j 14:17	23°  ♌57'09	3°46'40	retrograde	403 Jan 16 j 18:37	12°  ♌57'47	
minimum elong	402 Feb 11 j 15:08	23°  ♌55'01	3°46'37	evening set	403 Jan 19 j 16:52	12°  ♌12'19	
min. Earth dist.	402 Feb 14 j 15:07	20°  ♌57'59	0.61627 AU	inferior conj	403 Jan 25 j 18:22	6°  ♌49'45	3°46'30
morning rise	402 Feb 18 j 02:33	18°  ♌04'12		minimum elong	403 Jan 25 j 17:20	6°  ♌52'40	3°46'26
direct	402 Feb 25 j 00:21	15°  ♌38'46		min. Earth dist.	403 Jan 28 j 04:56	4°  ♌07'26	0.63545 AU
desc. node	402 Mar 02 j 17:19	17°  ♌06'51		morning rise	403 Jan 31 j 17:03	0°  ♌46'55	
morning max el	402 Mar 11 j 03:07	23°  ♌30'11	27°46'00		403 Feb 01 j 18:27	30°  ♌	
	402 Mar 16 j 23:05	0°  ♌		direct	403 Feb 07 j 16:10	28°  ♌00'47	
	402 Apr 05 j 11:40	0°  ♌			403 Feb 14 j 03:10	0°  ♌	
morning set	402 Apr 13 j 03:11	14°  ♌49'07		desc. node	403 Feb 17 j 14:21	2°  ♌24'09	
max. Earth dist.	402 Apr 19 j 01:16	27°  ♌19'45	1.32510 AU	morning max el	403 Feb 21 j 10:54	5°  ♌52'56	27°39'43
					403 Mar 11 j 19:19	0°  ♌	
superior conj	402 Apr 20 j 11:50	0°  ♌27'40	0°01'49	morning set	403 Mar 28 j 01:14	28°  ♌57'46	
minimum elong	402 Apr 20 j 11:45	0°  ♌27'13	0°01'48		403 Mar 28 j 13:41	0°  ♌	
behind sun begin	402 Apr 20 j 06:41	29°  ♌59'33		max. Earth dist.	403 Apr 02 j 06:19	9°  ♌39'56	1.33119 AU
behind sun end	402 Apr 20 j 16:50	0°  ♌54'55					
asc. node	402 Apr 20 j 07:43	0°  ♌05'13		superior conj	403 Apr 04 j 19:24	15°  ♌04'56	-0°25'02
	402 Apr 20 j 06:46	0°  ♌		minimum elong	403 Apr 04 j 20:37	15°  ♌11'25	0°24'45
evening rise	402 Apr 27 j 10:07	15°  ♌28'40		asc. node	403 Apr 07 j 04:48	20°  ♌13'55	
	402 May 04 j 16:22	0°  ♌		evening rise	403 Apr 11 j 21:52	0°  ♌19'37	
evening max el	402 May 23 j 00:49	26°  ♌14'18	24°40'03		403 Apr 11 j 18:09	0°  ♌	
	402 May 27 j 14:19	0°  ♌			403 Apr 28 j 17:20	0°  ♌	
desc. node	402 May 29 j 16:35	1°  ♌16'59		evening max el	403 May 04 j 15:14	6°  ♌47'27	23°05'11
retrograde	402 Jun 05 j 23:25	3°  ♌17'43		desc. node	403 May 16 j 13:37	13°  ♌23'26	
evening set	402 Jun 10 j 22:25	2°  ♌22'13		retrograde	403 May 18 j 01:21	13°  ♌28'28	
	402 Jun 15 j 16:28	30°  ♌		evening set	403 May 21 j 13:20	13°  ♌01'35	

min. Earth dist.	403 May 29 j 00:38	9° Π 41'06	0.55630 AU	minimum elong	404 May 09 j 07:44	19° \mathcal{B} 21'23	1°58'46
inferior conj	403 May 30 j 17:27	8° Π 41'41	-3°39'42	min. Earth dist.	404 May 09 j 13:26	19° \mathcal{B} 13'23	0.54982 AU
minimum elong	403 May 30 j 10:10	8° Π 52'20	3°37'56	morning rise	404 May 18 j 12:43	15° \mathcal{B} 15'32	
morning rise	403 Jun 08 j 09:35	4° Π 47'48		direct	404 May 21 j 14:44	14° \mathcal{B} 54'43	
direct	403 Jun 11 j 03:37	4° Π 29'45		morning max el	404 Jun 03 j 00:51	20° \mathcal{B} 47'06	22°01'22
morning max el	403 Jun 21 j 22:43	9° Π 29'34	20°32'14		404 Jun 10 j 18:19	0° Π	
asc. node	403 Jul 04 j 04:01	26° Π 34'03		asc. node	404 Jun 20 j 01:06	15° Π 55'13	
	403 Jul 06 j 00:23	0° \mathcal{E}		morning set	404 Jun 24 j 05:05	24° Π 21'08	
morning set	403 Jul 10 j 19:29	9° \mathcal{E} 30'48			404 Jun 26 j 21:32	0° \mathcal{E}	
superior conj	403 Jul 18 j 09:56	25° \mathcal{E} 09'50	1°44'24	superior conj	404 Jul 01 j 11:11	9° \mathcal{E} 40'16	1°35'28
minimum elong	403 Jul 18 j 08:45	25° \mathcal{E} 03'52	1°44'22	minimum elong	404 Jul 01 j 09:04	9° \mathcal{E} 29'07	1°35'16
	403 Jul 20 j 19:34	0° Ω		max. Earth dist.	404 Jul 04 j 21:40	16° \mathcal{E} 48'00	1.34613 AU
max. Earth dist.	403 Jul 23 j 06:48	4° Ω 51'24	1.36140 AU	evening rise	404 Jul 09 j 12:44	26° \mathcal{E} 00'39	
evening rise	403 Jul 27 j 07:37	12° Ω 30'43			404 Jul 11 j 14:54	0° Ω	
	403 Aug 06 j 08:48	0° \mathcal{N}		desc. node	404 Jul 29 j 09:57	29° Ω 31'06	
desc. node	403 Aug 12 j 12:56	9° \mathcal{N} 40'30			404 Jul 29 j 18:00	0° \mathcal{N}	
	403 Aug 27 j 18:49	0° \mathcal{E}		evening max el	404 Aug 13 j 12:43	18° \mathcal{N} 01'01	26°59'17
evening max el	403 Sep 01 j 00:44	4° \mathcal{E} 29'02	26°09'34	retrograde	404 Aug 26 j 17:40	25° \mathcal{N} 19'04	
retrograde	403 Sep 13 j 15:10	11° \mathcal{E} 37'58		evening set	404 Sep 02 j 13:34	22° \mathcal{N} 34'01	
evening set	403 Sep 19 j 23:00	8° \mathcal{E} 59'28		min. Earth dist.	404 Sep 06 j 11:11	18° \mathcal{N} 41'28	0.65409 AU
min. Earth dist.	403 Sep 24 j 03:40	4° \mathcal{E} 30'05	0.66493 AU	inferior conj	404 Sep 08 j 09:48	16° \mathcal{N} 27'24	-2°28'40
inferior conj	403 Sep 25 j 13:58	2° \mathcal{E} 43'38	-1°32'33	minimum elong	404 Sep 08 j 13:34	16° \mathcal{N} 16'32	2°27'17
minimum elong	403 Sep 25 j 16:20	2° \mathcal{E} 36'15	1°31'35	morning rise	404 Sep 14 j 14:14	10° \mathcal{N} 49'31	
	403 Sep 27 j 20:47	30° \mathcal{R} \mathcal{N}		asc. node	404 Sep 16 j 00:16	10° \mathcal{N} 17'13	
asc. node	403 Sep 30 j 03:14	27° \mathcal{N} 47'19		direct	404 Sep 17 j 09:24	10° \mathcal{N} 06'46	
morning rise	403 Oct 01 j 10:03	26° \mathcal{N} 53'03		morning max el	404 Sep 23 j 22:48	13° \mathcal{N} 40'32	18°15'56
direct	403 Oct 04 j 12:51	25° \mathcal{N} 57'30			404 Oct 05 j 13:22	0° \mathcal{E}	
morning max el	403 Oct 11 j 09:24	29° \mathcal{N} 46'59	18°53'06	morning set	404 Oct 12 j 18:56	11° \mathcal{E} 49'03	
	403 Oct 11 j 14:30	0° \mathcal{E}			404 Oct 24 j 00:34	0° \mathcal{N}	
	403 Nov 01 j 05:51	0° \mathcal{N}		desc. node	404 Oct 25 j 09:14	2° \mathcal{N} 10'04	
morning set	403 Nov 02 j 02:21	1° \mathcal{N} 20'50		superior conj	404 Oct 27 j 13:59	5° \mathcal{N} 39'10	-0°14'30
desc. node	403 Nov 08 j 12:11	11° \mathcal{N} 26'18		minimum elong	404 Oct 27 j 12:07	5° \mathcal{N} 31'44	0°14'14
max. Earth dist.	403 Nov 17 j 08:36	25° \mathcal{N} 20'34	1.44952 AU	behind sun begin	404 Oct 27 j 06:42	5° \mathcal{N} 10'20	
superior conj	403 Nov 18 j 12:16	27° \mathcal{N} 09'24	-1°02'48	behind sun end	404 Oct 27 j 17:31	5° \mathcal{N} 53'07	
minimum elong	403 Nov 18 j 04:43	26° \mathcal{N} 39'42	1°01'55	max. Earth dist.	404 Oct 30 j 03:09	9° \mathcal{N} 40'27	1.44978 AU
	403 Nov 20 j 07:33	0° \mathcal{N}			404 Nov 12 j 02:57	0° \mathcal{N}	
evening rise	403 Dec 03 j 21:56	21° \mathcal{N} 43'09		evening rise	404 Nov 13 j 00:16	1° \mathcal{N} 23'08	
	403 Dec 09 j 00:37	0° \mathcal{E}		greatest brilliancy	404 Nov 24 j 17:17	19° \mathcal{N} 32'14	-0.7m
evening max el	403 Dec 24 j 18:20	22° \mathcal{E} 52'15	18°44'41		404 Dec 01 j 21:27	0° \mathcal{E}	
asc. node	403 Dec 27 j 02:33	24° \mathcal{E} 56'55		evening max el	404 Dec 07 j 02:21	6° \mathcal{E} 20'10	19°29'17
retrograde	403 Dec 31 j 11:30	26° \mathcal{E} 38'07		asc. node	404 Dec 12 j 23:35	10° \mathcal{E} 20'54	
evening set	404 Jan 03 j 15:11	25° \mathcal{E} 41'27		retrograde	404 Dec 14 j 08:01	10° \mathcal{E} 31'05	
inferior conj	404 Jan 09 j 09:15	20° \mathcal{E} 01'18	3°29'52	evening set	404 Dec 17 j 18:43	9° \mathcal{E} 21'39	
minimum elong	404 Jan 09 j 07:00	20° \mathcal{E} 08'08	3°29'30	inferior conj	404 Dec 23 j 07:44	3° \mathcal{E} 26'30	3°01'14
min. Earth dist.	404 Jan 11 j 04:28	17° \mathcal{E} 49'52	0.65134 AU	minimum elong	404 Dec 23 j 05:00	3° \mathcal{E} 35'24	3°00'33
morning rise	404 Jan 14 j 22:26	13° \mathcal{E} 52'36		min. Earth dist.	404 Dec 24 j 12:30	1° \mathcal{E} 52'59	0.66335 AU
direct	404 Jan 21 j 15:08	11° \mathcal{E} 00'19			404 Dec 26 j 00:38	30° \mathcal{R} \mathcal{N}	
morning max el	404 Feb 03 j 20:38	18° \mathcal{E} 43'52	26°59'59	morning rise	404 Dec 28 j 15:01	27° \mathcal{N} 14'31	
desc. node	404 Feb 04 j 11:24	19° \mathcal{E} 21'21		direct	405 Jan 03 j 20:10	24° \mathcal{N} 29'18	
	404 Feb 13 j 10:15	0° \approx			405 Jan 14 j 07:53	0° \mathcal{E}	
	404 Mar 03 j 18:20	0° \mathcal{H}		morning max el	405 Jan 16 j 05:53	1° \mathcal{E} 50'36	25°54'25
morning set	404 Mar 10 j 13:31	12° \mathcal{H} 32'56		desc. node	405 Jan 21 j 08:26	7° \mathcal{E} 29'58	
max. Earth dist.	404 Mar 15 j 01:30	21° \mathcal{H} 26'16	1.34160 AU		405 Feb 06 j 12:51	0° \approx	
superior conj	404 Mar 18 j 21:57	29° \mathcal{H} 22'20	-0°52'05	morning set	405 Feb 21 j 11:47	25° \approx 21'58	
minimum elong	404 Mar 19 j 00:29	29° \mathcal{H} 35'31	0°51'35		405 Feb 23 j 23:16	0° \mathcal{H}	
	404 Mar 19 j 05:09	0° \mathcal{Y}		max. Earth dist.	405 Feb 25 j 08:45	2° \mathcal{H} 39'52	1.35662 AU
asc. node	404 Mar 24 j 01:53	10° \mathcal{Y} 15'56		superior conj	405 Mar 02 j 17:00	13° \mathcal{H} 12'42	-1°17'53
evening rise	404 Mar 26 j 08:05	15° \mathcal{Y} 00'35		minimum elong	405 Mar 02 j 20:35	13° \mathcal{H} 30'48	1°17'20
	404 Apr 02 j 23:19	0° \mathcal{B}		evening rise	405 Mar 10 j 14:47	29° \mathcal{H} 25'20	
evening max el	404 Apr 15 j 11:06	17° \mathcal{B} 30'11	21°32'54	asc. node	405 Mar 10 j 22:55	0° \mathcal{Y} 06'50	
retrograde	404 Apr 27 j 16:57	23° \mathcal{B} 28'29			405 Mar 10 j 21:35	0° \mathcal{Y}	
evening set	404 Apr 30 j 03:28	23° \mathcal{B} 15'00		evening max el	405 Mar 28 j 17:29	28° \mathcal{Y} 44'59	20°13'38
desc. node	404 May 02 j 10:37	22° \mathcal{B} 39'19			405 Mar 30 j 02:46	0° \mathcal{B}	
inferior conj	404 May 09 j 13:15	19° \mathcal{B} 13'39	-2°00'38	retrograde	405 Apr 08 j 06:52	3° \mathcal{B} 49'39	

evening set	405 Apr 10 j 09:05	3°♄38'34		asc. node	406 Feb 25 j 19:57	19°♄41'46	
	405 Apr 18 j 20:08	30°♄			406 Mar 03 j 12:11	0°♄	
inferior conj	405 Apr 19 j 09:28	29°♄40'17	-0°01'19	evening max el	406 Mar 11 j 11:05	10°♄38'34	19°12'39
minimum elong	405 Apr 19 j 09:24	29°♄40'23	0°01'18	retrograde	406 Mar 20 j 08:36	14°♄55'43	
transit middle	405 Apr 19 j 09:24	29°♄40'23	0°01'18	evening set	406 Mar 22 j 13:15	14°♄41'13	
transit begin	405 Apr 19 j 05:24	29°♄46'19		inferior conj	406 Mar 30 j 19:37	10°♄30'44	1°44'31
transit end	405 Apr 19 j 13:25	29°♄34'26		minimum elong	406 Mar 30 j 23:24	10°♄24'21	1°43'21
desc. node	405 Apr 19 j 07:39	29°♄42'59		min. Earth dist.	406 Apr 02 j 18:09	8°♄32'30	0.56504 AU
min. Earth dist.	405 Apr 21 j 03:07	28°♄38'41	0.55298 AU	desc. node	406 Apr 06 j 04:40	6°♄32'00	
morning rise	405 Apr 28 j 08:00	25°♄19'34		morning rise	406 Apr 08 j 06:39	5°♄37'18	
direct	405 May 02 j 03:47	24°♄47'40		direct	406 Apr 13 j 04:01	4°♄41'58	
	405 May 14 j 02:34	0°♄		morning max el	406 Apr 27 j 08:55	11°♄58'16	25°19'58
morning max el	405 May 15 j 18:24	1°♄29'06	23°41'28		406 May 11 j 06:08	0°♄	
	405 Jun 04 j 02:52	0°♄		morning set	406 May 24 j 04:31	24°♄16'17	
asc. node	405 Jun 06 j 22:09	5°♄37'16		asc. node	406 May 24 j 19:13	25°♄34'02	
morning set	405 Jun 08 j 16:38	9°♄18'05			406 May 26 j 20:50	0°♄	
superior conj	405 Jun 15 j 18:02	24°♄27'20	1°21'15	superior conj	406 May 31 j 04:14	9°♄23'40	1°02'50
minimum elong	405 Jun 15 j 15:33	24°♄14'01	1°20'54	minimum elong	406 May 31 j 01:56	9°♄11'06	1°02'26
max. Earth dist.	405 Jun 17 j 22:11	29°♄06'17	1.33476 AU	max. Earth dist.	406 Jun 01 j 06:16	11°♄45'37	1.32728 AU
	405 Jun 18 j 08:19	0°♄		evening rise	406 Jun 07 j 07:16	24°♄36'41	
evening rise	405 Jun 23 j 05:47	10°♄06'16			406 Jun 09 j 23:14	0°♄	
	405 Jul 03 j 23:20	0°♄			406 Jun 27 j 14:43	0°♄	
desc. node	405 Jul 16 j 06:58	18°♄48'22		desc. node	406 Jul 03 j 03:58	7°♄18'17	
	405 Jul 25 j 16:55	0°♄		evening max el	406 Jul 09 j 08:21	14°♄01'39	27°18'03
evening max el	405 Jul 27 j 00:04	1°♄16'28	27°24'01	retrograde	406 Jul 23 j 04:00	21°♄18'29	
retrograde	405 Aug 09 j 14:11	8°♄35'32		evening set	406 Jul 30 j 08:07	18°♄53'02	
evening set	405 Aug 16 j 17:51	5°♄53'57		min. Earth dist.	406 Aug 02 j 22:12	16°♄02'20	0.62195 AU
min. Earth dist.	405 Aug 20 j 09:52	2°♄35'59	0.63969 AU	inferior conj	406 Aug 05 j 21:58	13°♄15'54	-4°07'24
inferior conj	405 Aug 22 j 21:28	0°♄00'30	-3°21'40	minimum elong	406 Aug 06 j 02:41	13°♄04'53	4°06'24
minimum elong	405 Aug 23 j 02:12	29°♄48'06	3°20'15	morning rise	406 Aug 12 j 22:39	8°♄13'35	
	405 Aug 22 j 21:39	30°♄		direct	406 Aug 15 j 10:13	7°♄46'29	
morning rise	405 Aug 29 j 11:32	24°♄38'39		asc. node	406 Aug 20 j 18:23	9°♄55'12	
direct	405 Sep 01 j 01:37	24°♄05'09		morning max el	406 Aug 22 j 05:35	11°♄13'12	17°54'17
asc. node	405 Sep 02 j 21:20	24°♄21'58			406 Sep 03 j 17:59	0°♄	
morning max el	405 Sep 07 j 14:28	27°♄31'21	17°56'00	morning set	406 Sep 07 j 07:10	6°♄22'24	
	405 Sep 09 j 19:28	0°♄					
morning set	405 Sep 24 j 14:30	23°♄35'28		superior conj	406 Sep 18 j 05:25	25°♄41'11	1°08'51
	405 Sep 28 j 08:23	0°♄		minimum elong	406 Sep 18 j 10:19	26°♄02'09	1°08'16
					406 Sep 20 j 18:23	0°♄	
superior conj	405 Oct 07 j 08:15	15°♄00'12	0°32'23	max. Earth dist.	406 Sep 25 j 10:54	7°♄46'27	1.42951 AU
minimum elong	405 Oct 07 j 11:41	15°♄14'15	0°31'55	desc. node	406 Sep 29 j 03:16	13°♄43'08	
desc. node	405 Oct 12 j 06:16	22°♄56'42		evening rise	406 Oct 02 j 19:09	19°♄30'25	
max. Earth dist.	405 Oct 12 j 20:53	23°♄55'00	1.44281 AU		406 Oct 09 j 14:54	0°♄	
	405 Oct 16 j 17:09	0°♄			406 Oct 31 j 02:39	0°♄	
evening rise	405 Oct 23 j 10:03	10°♄25'30		evening max el	406 Nov 03 j 02:32	3°♄18'04	21°39'54
	405 Nov 05 j 08:25	0°♄		retrograde	406 Nov 12 j 02:31	8°♄39'16	
evening max el	405 Nov 20 j 05:22	19°♄49'11	20°28'45	evening set	406 Nov 16 j 08:57	6°♄58'45	
retrograde	405 Nov 28 j 05:41	24°♄32'39		asc. node	406 Nov 16 j 17:38	6°♄40'49	
asc. node	405 Nov 29 j 20:36	24°♄17'45		inferior conj	406 Nov 21 j 17:25	0°♄42'34	1°39'11
evening set	405 Dec 02 j 01:16	23°♄08'34		minimum elong	406 Nov 21 j 15:21	0°♄49'45	1°38'24
inferior conj	405 Dec 07 j 11:11	17°♄01'16	2°23'39	min. Earth dist.	406 Nov 21 j 21:40	0°♄27'53	0.67588 AU
minimum elong	405 Dec 07 j 08:32	17°♄10'13	2°22'48		406 Nov 22 j 05:45	30°♄	
min. Earth dist.	405 Dec 08 j 02:58	16°♄07'41	0.67143 AU	morning rise	406 Nov 26 j 21:35	24°♄29'56	
morning rise	405 Dec 12 j 15:37	10°♄48'03		direct	406 Dec 01 j 21:03	22°♄22'41	
direct	405 Dec 18 j 06:23	8°♄19'17		morning max el	406 Dec 11 j 23:36	28°♄22'51	23°04'49
morning max el	405 Dec 29 j 14:13	15°♄04'29	24°32'44		406 Dec 13 j 12:40	0°♄	
desc. node	406 Jan 08 j 05:29	26°♄29'05		desc. node	406 Dec 26 j 02:30	16°♄03'35	
	406 Jan 10 j 20:12	0°♄			407 Jan 04 j 14:02	0°♄	
	406 Jan 30 j 10:39	0°♄		morning set	407 Jan 15 j 15:20	17°♄37'44	
morning set	406 Feb 03 j 14:31	7°♄09'17		max. Earth dist.	407 Jan 20 j 02:00	25°♄09'59	1.39680 AU
max. Earth dist.	406 Feb 07 j 06:36	13°♄42'51	1.37564 AU		407 Jan 22 j 20:21	0°♄	
superior conj	406 Feb 14 j 01:18	26°♄27'08	-1°40'21	superior conj	407 Jan 27 j 18:31	8°♄53'19	-1°56'36
minimum elong	406 Feb 14 j 05:15	26°♄46'13	1°39'57	minimum elong	407 Jan 27 j 21:26	9°♄06'42	1°56'27
	406 Feb 15 j 21:00	0°♄		evening rise	407 Feb 06 j 07:49	26°♄58'19	
evening rise	406 Feb 22 j 15:40	13°♄27'25			407 Feb 07 j 21:50	0°♄	

asc. node	407 Feb 12 j 16:59	8° X 54'03			408 Feb 01 j 03:35	0° X	
evening max el	407 Feb 22 j 13:48	23° X 05'39	18°31'41	evening max el	408 Feb 05 j 22:44	5° X 58'36	18°10'46
retrograde	407 Mar 02 j 05:02	26° X 50'14		retrograde	408 Feb 12 j 19:09	9° X 26'25	
evening set	407 Mar 04 j 14:51	26° X 29'05		evening set	408 Feb 15 j 09:59	8° X 56'42	
inferior conj	407 Mar 12 j 02:20	21° X 59'23	2°57'38	inferior conj	408 Feb 22 j 05:29	4° X 06'11	3°36'52
minimum elong	407 Mar 12 j 06:21	21° X 51'28	2°56'46	minimum elong	408 Feb 22 j 07:37	4° X 01'15	3°36'38
min. Earth dist.	407 Mar 15 j 12:22	19° X 18'47	0.58326 AU	min. Earth dist.	408 Feb 25 j 12:31	1° X 06'19	0.60421 AU
morning rise	407 Mar 19 j 19:06	16° X 35'24			408 Feb 26 j 20:13	30° R \approx	
desc. node	407 Mar 24 j 01:42	15° X 12'21		morning rise	408 Feb 29 j 03:19	28° \approx 21'03	
direct	407 Mar 25 j 17:44	15° X 05'12		direct	408 Mar 06 j 19:39	26° \approx 13'25	
morning max el	407 Apr 09 j 02:24	22° X 42'48	26°41'27	desc. node	408 Mar 09 j 22:44	26° \approx 39'48	
	407 Apr 15 j 13:50	0° Y			408 Mar 16 j 09:32	0° X	
	407 May 04 j 02:42	0° B		morning max el	408 Mar 21 j 01:52	4° X 02'42	27°32'50
morning set	407 May 08 j 15:03	9° B 09'28			408 Apr 09 j 05:28	0° Y	
asc. node	407 May 11 j 16:16	15° B 39'44		morning set	408 Apr 21 j 22:29	23° Y 51'25	
					408 Apr 24 j 20:32	0° B	
superior conj	407 May 15 j 15:54	24° B 22'30	0°41'05	asc. node	408 Apr 27 j 13:19	5° B 49'57	
minimum elong	407 May 15 j 14:12	24° B 13'09	0°40'44	max. Earth dist.	408 Apr 28 j 06:41	7° B 24'45	1.32339 AU
max. Earth dist.	407 May 15 j 18:21	24° B 35'57	1.32350 AU				
	407 May 18 j 05:28	0° II		superior conj	408 Apr 29 j 03:21	9° B 17'55	0°16'43
evening rise	407 May 22 j 14:20	9° II 22'14		minimum elong	408 Apr 29 j 02:36	9° B 13'47	0°16'34
	407 Jun 02 j 07:48	0° E		evening rise	408 May 06 j 00:43	24° B 15'23	
desc. node	407 Jun 20 j 00:59	24° E 41'04			408 May 08 j 19:08	0° II	
evening max el	407 Jun 21 j 10:54	26° E 04'46	26°39'02		408 May 26 j 17:16	0° E	
	407 Jun 26 j 05:19	0° Q		evening max el	408 Jun 02 j 06:32	7° E 22'15	25°29'54
retrograde	407 Jul 05 j 10:24	3° Q 19'26		desc. node	408 Jun 05 j 22:02	10° E 28'57	
evening set	407 Jul 12 j 03:54	1° Q 23'27		retrograde	408 Jun 16 j 07:32	14° E 32'33	
	407 Jul 14 j 08:27	30° R E		evening set	408 Jun 22 j 01:07	13° E 15'14	
min. Earth dist.	407 Jul 16 j 00:18	28° E 46'00	0.60177 AU	min. Earth dist.	408 Jun 26 j 18:37	10° E 32'37	0.58132 AU
inferior conj	407 Jul 19 j 07:51	26° E 04'47	-4°39'15	inferior conj	408 Jun 29 j 23:35	8° E 17'15	-4°47'01
minimum elong	407 Jul 19 j 10:48	25° E 58'46	4°38'58	minimum elong	408 Jun 29 j 22:34	8° E 19'03	4°46'59
morning rise	407 Jul 26 j 19:39	21° E 24'44		morning rise	408 Jul 07 j 22:36	3° E 59'31	
direct	407 Jul 29 j 06:57	21° E 01'57		direct	408 Jul 10 j 11:23	3° E 39'37	
morning max el	407 Aug 05 j 17:11	24° E 38'50	18°11'54	morning max el	408 Jul 18 j 22:07	7° E 38'23	18°49'52
asc. node	407 Aug 07 j 15:27	26° E 42'44		asc. node	408 Jul 24 j 12:31	14° E 28'48	
	407 Aug 10 j 03:57	0° Q			408 Aug 02 j 09:20	0° Q	
morning set	407 Aug 21 j 15:17	19° Q 54'13		morning set	408 Aug 04 j 10:18	3° Q 58'05	
	407 Aug 27 j 00:18	0° P					
				superior conj	408 Aug 12 j 23:54	20° Q 38'08	1°44'21
superior conj	407 Aug 31 j 04:30	7° P 39'25	1°32'27	minimum elong	408 Aug 13 j 01:26	20° Q 45'29	1°44'18
minimum elong	407 Aug 31 j 08:09	7° P 55'51	1°32'09		408 Aug 18 j 00:50	0° P	
max. Earth dist.	407 Sep 07 j 19:18	20° P 59'13	1.41158 AU	max. Earth dist.	408 Aug 19 j 22:55	3° P 27'00	1.39147 AU
evening rise	407 Sep 12 j 20:24	29° P 21'40		evening rise	408 Aug 23 j 21:52	10° P 21'00	
	407 Sep 13 j 05:51	0° A		desc. node	408 Sep 01 j 21:21	25° P 02'09	
desc. node	407 Sep 16 j 00:18	4° A 26'26			408 Sep 05 j 02:38	0° A	
	407 Oct 03 j 04:24	0° M			408 Sep 27 j 22:08	0° M	
evening max el	407 Oct 16 j 18:30	16° M 48'42	22°58'18	evening max el	408 Sep 28 j 07:10	0° M 22'36	24°18'13
retrograde	407 Oct 26 j 21:04	22° M 48'39		retrograde	408 Oct 09 j 12:03	6° M 56'39	
evening set	407 Oct 31 j 16:08	20° M 50'36		evening set	408 Oct 14 j 21:09	4° M 41'10	
asc. node	407 Nov 03 j 14:40	17° M 43'18			408 Oct 19 j 00:51	30° R A	
inferior conj	407 Nov 06 j 00:38	14° M 29'15	0°49'30	min. Earth dist.	408 Oct 19 j 14:20	29° A 15'02	0.67493 AU
minimum elong	407 Nov 05 j 23:30	14° M 33'10	0°49'01	inferior conj	408 Oct 20 j 07:04	28° A 18'43	-0°04'00
min. Earth dist.	407 Nov 05 j 18:15	14° M 51'15	0.67701 AU	minimum elong	408 Oct 20 j 07:10	28° A 18'24	0°03'59
morning rise	407 Nov 11 j 06:47	8° M 19'16		transit middle	408 Oct 20 j 07:10	28° A 18'24	0°03'59
direct	407 Nov 15 j 15:32	6° M 34'44		transit begin	408 Oct 20 j 04:31	28° A 27'19	
morning max el	407 Nov 24 j 13:27	11° M 48'50	21°39'39	transit end	408 Oct 20 j 09:49	28° A 09'28	
	407 Dec 08 j 19:21	0° J		asc. node	408 Oct 20 j 11:42	28° A 03'07	
desc. node	407 Dec 12 j 23:32	6° J 03'55		morning rise	408 Oct 25 j 17:12	22° A 13'52	
morning set	407 Dec 26 j 11:00	26° J 42'52		direct	408 Oct 29 j 12:44	20° A 50'39	
	407 Dec 28 j 12:17	0° Z		morning max el	408 Nov 06 j 10:19	25° A 24'21	20°23'55
max. Earth dist.	408 Jan 02 j 01:41	7° Z 26'29	1.41738 AU		408 Nov 10 j 11:10	0° M	
				desc. node	408 Nov 28 j 20:35	26° M 22'28	
superior conj	408 Jan 09 j 15:31	20° Z 19'06	-2°02'36		408 Dec 01 j 05:31	0° J	
minimum elong	408 Jan 09 j 15:15	20° Z 18'00	2°02'36	morning set	408 Dec 04 j 09:35	4° J 53'14	
	408 Jan 15 j 02:22	0° \approx		max. Earth dist.	408 Dec 14 j 08:41	20° J 35'52	1.43457 AU
evening rise	408 Jan 20 j 11:47	9° \approx 50'14					
asc. node	408 Jan 30 j 14:00	27° \approx 36'25		superior conj	408 Dec 20 j 11:14	0° Z 33'31	-1°53'40

minimum elong	408 Dec 20 j 06:03	0° Z 12'03	1°53'22	minimum elong	409 Nov 29 j 20:25	9° Z 04'37	1°25'30
	408 Dec 20 j 03:08	0° Z			409 Dec 12 j 17:56	0° Z	
evening rise	409 Jan 01 j 23:25	21° Z 54'33		evening rise	409 Dec 14 j 14:26	3° Z 04'26	
	409 Jan 06 j 14:38	0° \approx			409 Dec 31 j 18:15	0° \approx	
asc. node	409 Jan 16 j 11:02	15° \approx 39'34		evening max el	410 Jan 02 j 23:11	2° \approx 29'59	18°26'41
evening max el	409 Jan 19 j 10:47	19° \approx 09'00	18°09'24	asc. node	410 Jan 03 j 08:04	2° \approx 52'06	
retrograde	409 Jan 25 j 22:57	22° \approx 34'17		retrograde	410 Jan 09 j 12:05	6° \approx 05'00	
evening set	409 Jan 28 j 18:27	21° \approx 54'51		evening set	410 Jan 12 j 12:37	5° \approx 14'48	
inferior conj	409 Feb 04 j 01:34	16° \approx 43'48	3°48'57	inferior conj	410 Jan 18 j 10:37	29° Z 44'36	3°41'07
minimum elong	409 Feb 04 j 01:32	16° \approx 43'51	3°48'57	minimum elong	410 Jan 18 j 08:58	29° Z 49'22	3°40'57
min. Earth dist.	409 Feb 06 j 20:51	13° \approx 49'14	0.62473 AU		410 Jan 18 j 05:18	30° R Z	
morning rise	409 Feb 10 j 07:32	10° \approx 46'03		min. Earth dist.	410 Jan 20 j 14:40	27° Z 14'12	0.64269 AU
direct	409 Feb 17 j 07:11	8° \approx 09'38		morning rise	410 Jan 24 j 04:49	23° Z 39'12	
desc. node	409 Feb 24 j 19:46	10° \approx 42'47		direct	410 Jan 31 j 02:09	20° Z 48'36	
morning max el	409 Mar 03 j 06:58	16° \approx 02'55	27°47'46	desc. node	410 Feb 11 j 16:49	26° Z 46'12	
	409 Mar 14 j 18:32	0° X		morning max el	410 Feb 13 j 15:38	28° Z 37'52	27°26'34
	409 Apr 01 j 20:12	0° Y			410 Feb 14 j 23:34	0° \approx	
morning set	409 Apr 06 j 00:43	8° Y 14'53			410 Mar 08 j 13:50	0° X	
max. Earth dist.	409 Apr 11 j 15:23	19° Y 58'40	1.32709 AU	morning set	410 Mar 20 j 18:59	22° X 10'06	
					410 Mar 24 j 16:24	0° Y	
superior conj	409 Apr 13 j 12:54	24° Y 04'06	-0°09'28	max. Earth dist.	410 Mar 25 j 16:33	2° Y 04'42	1.33502 AU
minimum elong	409 Apr 13 j 13:20	24° Y 06'32	0°09'21				
behind sun begin	409 Apr 13 j 09:08	23° Y 43'42		superior conj	410 Mar 28 j 18:34	8° Y 33'36	-0°36'32
behind sun end	409 Apr 13 j 17:33	24° Y 29'22		minimum elong	410 Mar 28 j 20:21	8° Y 43'02	0°36'10
asc. node	409 Apr 14 j 10:22	26° Y 00'38		asc. node	410 Apr 01 j 07:24	16° Y 06'47	
	409 Apr 16 j 06:24	0° Z		evening rise	410 Apr 04 j 23:49	23° Y 56'47	
evening rise	409 Apr 20 j 12:31	9° Z 09'25			410 Apr 07 j 22:14	0° Z	
	409 May 01 j 08:30	0° II		evening max el	410 Apr 26 j 13:30	28° Z 39'54	22°25'00
evening max el	409 May 14 j 21:30	18° II 05'59	24°00'28		410 Apr 28 j 00:27	0° II	
desc. node	409 May 23 j 19:03	24° II 07'19		retrograde	410 May 09 j 13:16	5° II 04'20	
retrograde	409 May 28 j 16:51	25° II 02'07		desc. node	410 May 10 j 16:05	5° II 01'32	
evening set	409 Jun 02 j 00:28	24° II 20'52		evening set	410 May 12 j 12:40	4° II 44'52	
min. Earth dist.	409 Jun 08 j 08:34	21° II 17'37	0.56377 AU	min. Earth dist.	410 May 20 j 20:50	1° II 09'09	0.55246 AU
inferior conj	409 Jun 10 j 19:17	19° II 47'05	-4°17'38	inferior conj	410 May 21 j 21:10	0° II 34'43	-3°02'14
minimum elong	409 Jun 10 j 13:30	19° II 56'03	4°16'40	minimum elong	410 May 21 j 13:54	0° II 45'00	3°00'08
morning rise	409 Jun 19 j 05:20	15° II 47'06			410 May 22 j 21:48	30° R Z	
direct	409 Jun 21 j 21:01	15° II 28'46		morning rise	410 May 30 j 17:04	26° Z 41'22	
morning max el	409 Jul 01 j 17:35	20° II 02'54	19°48'50	direct	410 Jun 02 j 13:55	26° Z 22'37	
	409 Jul 09 j 13:43	0° III			410 Jun 12 j 00:40	0° II	
asc. node	409 Jul 11 j 09:35	3° III 00'27		morning max el	410 Jun 14 j 01:47	1° II 44'04	21°08'06
morning set	409 Jul 19 j 12:55	18° III 25'47		asc. node	410 Jun 28 j 06:40	22° II 05'54	
	409 Jul 25 j 05:49	0° III			410 Jul 02 j 07:31	0° III	
				morning set	410 Jul 03 j 20:34	3° III 09'29	
superior conj	409 Jul 27 j 10:11	4° III 22'17	1°46'39				
minimum elong	409 Jul 27 j 09:50	4° III 20'36	1°46'38	superior conj	410 Jul 11 j 06:56	18° III 38'26	1°41'20
max. Earth dist.	409 Aug 02 j 02:51	15° III 24'18	1.37182 AU	minimum elong	410 Jul 11 j 05:17	18° III 29'55	1°41'13
evening rise	409 Aug 05 j 22:59	22° III 28'19		max. Earth dist.	410 Jul 15 j 12:58	27° III 15'47	1.35455 AU
	409 Aug 10 j 05:52	0° IV			410 Jul 16 j 22:17	0° III	
desc. node	409 Aug 19 j 18:24	15° IV 25'37		evening rise	410 Jul 19 j 19:13	5° III 31'24	
	409 Aug 29 j 21:53	0° IV			410 Aug 03 j 00:28	0° IV	
evening max el	409 Sep 10 j 18:56	14° IV 00'28	25°32'27	desc. node	410 Aug 06 j 15:26	5° IV 30'21	
retrograde	409 Sep 22 j 22:32	20° IV 59'06		evening max el	410 Aug 24 j 06:54	27° IV 37'05	26°33'17
evening set	409 Sep 28 j 22:13	18° IV 28'04			410 Aug 26 j 22:10	0° IV	
min. Earth dist.	409 Oct 03 j 07:24	13° IV 37'20	0.66961 AU	retrograde	410 Sep 06 j 03:54	4° IV 50'04	
inferior conj	409 Oct 04 j 10:57	12° IV 08'45	-0°59'54	evening set	410 Sep 12 j 17:19	2° IV 07'55	
minimum elong	409 Oct 04 j 12:28	12° IV 03'52	0°59'16		410 Sep 14 j 22:42	30° R IV	
asc. node	409 Oct 07 j 08:46	8° IV 37'05		min. Earth dist.	410 Sep 16 j 19:00	27° IV 54'14	0.66085 AU
morning rise	409 Oct 10 j 02:54	6° IV 11'55		inferior conj	410 Sep 18 j 10:20	25° IV 55'48	-1°56'32
direct	409 Oct 13 j 11:15	5° IV 07'08		minimum elong	410 Sep 18 j 13:20	25° IV 46'47	1°55'21
morning max el	409 Oct 20 j 14:49	9° IV 09'42	19°21'44	morning rise	410 Sep 24 j 09:48	20° IV 10'10	
	409 Nov 04 j 19:26	0° V		asc. node	410 Sep 24 j 05:49	20° IV 15'49	
morning set	409 Nov 13 j 10:19	13° V 19'00		direct	410 Sep 27 j 09:10	19° IV 20'20	
desc. node	409 Nov 15 j 17:38	16° V 54'08		morning max el	410 Oct 04 j 01:39	23° IV 01'41	18°35'11
	409 Nov 24 j 02:39	0° V			410 Oct 09 j 16:31	0° V	
max. Earth dist.	409 Nov 26 j 22:55	4° V 29'04	1.44611 AU	morning set	410 Oct 24 j 10:15	22° IV 58'04	
					410 Oct 28 j 20:01	0° V	
superior conj	409 Nov 30 j 04:50	9° V 38'08	-1°26'20	desc. node	410 Nov 02 j 14:41	7° V 34'34	

superior conj	410 Nov 09 j 06:21	18° \mathbb{M} 03'24	-0°42'55	behind sun end	411 Oct 19 j 23:40	27° \mathbb{A} 31'44	
minimum elong	410 Nov 09 j 00:49	17° \mathbb{M} 41'36	0°42'12	desc. node	411 Oct 20 j 11:42	28° \mathbb{A} 19'45	
max. Earth dist.	410 Nov 09 j 17:28	18° \mathbb{M} 47'04	1.45060 AU		411 Oct 21 j 12:54	0° \mathbb{M}	
	410 Nov 16 j 20:37	0° \mathbb{A}		max. Earth dist.	411 Oct 23 j 12:15	3° \mathbb{M} 07'33	1.44766 AU
evening rise	410 Nov 25 j 06:00	13° \mathbb{A} 16'31		evening rise	411 Nov 04 j 23:54	22° \mathbb{M} 36'49	
greatest brilliancy	410 Dec 03 j 21:24	26° \mathbb{A} 59'43	-0.8m		411 Nov 09 j 18:49	0° \mathbb{A}	
	410 Dec 05 j 19:27	0° \mathbb{B}		greatest brilliancy	411 Nov 18 j 11:17	13° \mathbb{A} 11'50	-0.7m
evening max el	410 Dec 17 j 09:24	15° \mathbb{B} 56'27	19°01'41	evening max el	411 Nov 30 j 15:20	29° \mathbb{A} 24'17	19°52'52
asc. node	410 Dec 21 j 05:06	19° \mathbb{B} 00'20			411 Dec 01 j 05:32	0° \mathbb{B}	
retrograde	410 Dec 24 j 06:54	19° \mathbb{B} 51'45		retrograde	411 Dec 08 j 04:18	3° \mathbb{B} 48'39	
evening set	410 Dec 27 j 13:28	18° \mathbb{B} 49'40		asc. node	411 Dec 08 j 02:08	3° \mathbb{B} 48'36	
inferior conj	411 Jan 02 j 05:05	13° \mathbb{B} 02'35	3°18'57	evening set	411 Dec 11 j 18:31	2° \mathbb{B} 33'08	
minimum elong	411 Jan 02 j 02:33	13° \mathbb{B} 10'32	3°18'27		411 Dec 14 j 12:01	30° \mathbb{R} \mathbb{A}	
min. Earth dist.	411 Jan 03 j 17:52	11° \mathbb{B} 07'08	0.65694 AU	inferior conj	411 Dec 17 j 05:58	26° \mathbb{A} 32'09	2°46'14
morning rise	411 Jan 07 j 15:22	6° \mathbb{B} 52'22		minimum elong	411 Dec 17 j 03:13	26° \mathbb{A} 41'19	2°45'28
direct	411 Jan 14 j 03:36	4° \mathbb{B} 02'02		min. Earth dist.	411 Dec 18 j 04:57	25° \mathbb{A} 15'47	0.66722 AU
morning max el	411 Jan 27 j 01:25	11° \mathbb{B} 37'11	26°34'48	morning rise	411 Dec 22 j 11:42	20° \mathbb{A} 19'15	
desc. node	411 Jan 29 j 13:51	14° \mathbb{B} 16'51		direct	411 Dec 28 j 10:46	17° \mathbb{A} 40'23	
	411 Feb 10 j 18:29	0° \approx		morning max el	412 Jan 09 j 10:25	24° \mathbb{A} 48'15	25°21'03
	411 Mar 01 j 03:30	0° \mathbb{H}			412 Jan 14 j 03:32	0° \mathbb{B}	
morning set	411 Mar 04 j 01:49	5° \mathbb{H} 26'52		desc. node	412 Jan 16 j 10:53	2° \mathbb{B} 48'48	
max. Earth dist.	411 Mar 08 j 06:59	13° \mathbb{H} 37'03	1.34748 AU		412 Feb 04 j 05:45	0° \approx	
				morning set	412 Feb 14 j 16:30	17° \approx 51'18	
superior conj	411 Mar 12 j 18:14	22° \mathbb{H} 40'05	-1°03'16	max. Earth dist.	412 Feb 18 j 09:48	24° \approx 42'39	1.36431 AU
minimum elong	411 Mar 12 j 21:16	22° \mathbb{H} 55'42	1°02'45		412 Feb 21 j 04:25	0° \mathbb{H}	
	411 Mar 16 j 06:46	0° \mathbb{Y}					
asc. node	411 Mar 19 j 04:26	6° \mathbb{Y} 04'25		superior conj	412 Feb 24 j 09:05	6° \mathbb{H} 15'30	-1°27'59
evening rise	411 Mar 20 j 08:47	8° \mathbb{Y} 31'35		minimum elong	412 Feb 24 j 12:57	6° \mathbb{H} 34'41	1°27'28
	411 Mar 31 j 22:57	0° \mathbb{B}		evening rise	412 Mar 03 j 13:18	22° \mathbb{H} 47'03	
evening max el	411 Apr 08 j 13:17	9° \mathbb{B} 33'11	20°57'05	asc. node	412 Mar 05 j 01:28	25° \mathbb{H} 48'48	
retrograde	411 Apr 20 j 02:32	15° \mathbb{B} 09'16			412 Mar 07 j 04:28	0° \mathbb{Y}	
evening set	411 Apr 22 j 07:47	14° \mathbb{B} 57'38		evening max el	412 Mar 21 j 00:24	21° \mathbb{Y} 03'25	19°45'15
desc. node	411 Apr 27 j 13:04	13° \mathbb{B} 10'58		retrograde	412 Mar 30 j 20:25	25° \mathbb{Y} 46'58	
inferior conj	411 May 01 j 15:07	10° \mathbb{B} 59'22	-1°10'24	evening set	412 Apr 01 j 22:39	25° \mathbb{Y} 35'04	
minimum elong	411 May 01 j 11:47	11° \mathbb{B} 04'05	1°09'13	inferior conj	412 Apr 10 j 15:53	21° \mathbb{Y} 32'49	0°46'52
min. Earth dist.	411 May 02 j 09:32	10° \mathbb{B} 33'15	0.54999 AU	minimum elong	412 Apr 10 j 17:52	21° \mathbb{Y} 29'42	0°46'11
morning rise	411 May 10 j 15:33	6° \mathbb{B} 54'06		min. Earth dist.	412 Apr 12 j 23:47	20° \mathbb{Y} 05'58	0.55707 AU
direct	411 May 13 j 23:48	6° \mathbb{B} 29'59		desc. node	412 Apr 13 j 10:04	19° \mathbb{Y} 50'25	
morning max el	411 May 26 j 23:39	12° \mathbb{B} 43'40	22°43'19	morning rise	412 Apr 19 j 10:39	16° \mathbb{Y} 58'20	
	411 Jun 08 j 22:14	0° \mathbb{I}		direct	412 Apr 23 j 16:26	16° \mathbb{Y} 18'18	
asc. node	411 Jun 15 j 03:43	11° \mathbb{I} 36'22		morning max el	412 May 07 j 15:18	23° \mathbb{Y} 17'02	24°24'38
morning set	411 Jun 18 j 07:11	18° \mathbb{I} 03'02			412 May 13 j 15:43	0° \mathbb{B}	
	411 Jun 23 j 21:59	0° \mathbb{E}			412 May 31 j 08:22	0° \mathbb{I}	
				asc. node	412 Jun 01 j 00:46	1° \mathbb{I} 25'05	
superior conj	411 Jun 25 j 10:51	3° \mathbb{E} 16'30	1°30'01	morning set	412 Jun 01 j 19:04	3° \mathbb{I} 01'04	
minimum elong	411 Jun 25 j 08:31	3° \mathbb{E} 04'05	1°29'45				
max. Earth dist.	411 Jun 28 j 08:08	9° \mathbb{E} 20'58	1.34081 AU	superior conj	412 Jun 08 j 19:23	18° \mathbb{I} 08'26	1°13'54
evening rise	411 Jul 03 j 05:51	19° \mathbb{E} 17'14		minimum elong	412 Jun 08 j 16:55	17° \mathbb{I} 55'06	1°13'32
	411 Jul 08 j 21:45	0° \mathbb{Q}		max. Earth dist.	412 Jun 10 j 12:00	21° \mathbb{I} 47'47	1.33100 AU
desc. node	411 Jul 24 j 12:26	25° \mathbb{Q} 08'02			412 Jun 14 j 09:04	0° \mathbb{E}	
	411 Jul 28 j 02:39	0° \mathbb{P}		evening rise	412 Jun 16 j 02:51	3° \mathbb{E} 34'22	
evening max el	411 Aug 06 j 18:41	11° \mathbb{P} 02'52	27°13'08		412 Jun 30 j 15:52	0° \mathbb{Q}	
retrograde	411 Aug 20 j 03:47	18° \mathbb{P} 21'54		desc. node	412 Jul 10 j 09:25	14° \mathbb{Q} 07'25	
evening set	411 Aug 27 j 03:54	15° \mathbb{P} 36'36		evening max el	412 Jul 19 j 04:51	24° \mathbb{Q} 06'40	27°25'29
min. Earth dist.	411 Aug 30 j 22:48	11° \mathbb{P} 59'38	0.64846 AU		412 Jul 27 j 05:28	0° \mathbb{P}	
inferior conj	411 Sep 02 j 03:00	9° \mathbb{P} 35'21	-2°51'45	retrograde	412 Aug 01 j 21:53	1° \mathbb{P} 25'55	
minimum elong	411 Sep 02 j 07:16	9° \mathbb{P} 23'33	2°50'17		412 Aug 07 j 05:59	30° \mathbb{R} \mathbb{Q}	
morning rise	411 Sep 08 j 11:26	4° \mathbb{P} 04'09		evening set	412 Aug 09 j 02:49	28° \mathbb{Q} 49'12	
direct	411 Sep 11 j 04:10	3° \mathbb{P} 25'44		min. Earth dist.	412 Aug 12 j 17:10	25° \mathbb{Q} 44'19	0.63246 AU
asc. node	411 Sep 11 j 02:54	3° \mathbb{P} 25'45		inferior conj	412 Aug 15 j 10:20	23° \mathbb{Q} 02'10	-3°42'17
morning max el	411 Sep 17 j 16:25	6° \mathbb{P} 54'57	18°05'18	minimum elong	412 Aug 15 j 15:14	22° \mathbb{Q} 49'56	3°40'59
	411 Oct 03 j 05:11	0° \mathbb{A}		morning rise	412 Aug 22 j 04:52	17° \mathbb{Q} 48'31	
morning set	411 Oct 05 j 14:52	4° \mathbb{A} 01'16		direct	412 Aug 24 j 17:29	17° \mathbb{Q} 18'12	
				asc. node	412 Aug 27 j 23:57	18° \mathbb{Q} 09'56	
superior conj	411 Oct 19 j 12:56	26° \mathbb{A} 48'55	0°06'18	morning max el	412 Aug 31 j 08:19	20° \mathbb{Q} 43'43	17°53'01
minimum elong	411 Oct 19 j 13:42	26° \mathbb{A} 51'59	0°06'12		412 Sep 07 j 07:33	0° \mathbb{P}	
behind sun begin	411 Oct 19 j 03:45	26° \mathbb{A} 12'10		morning set	412 Sep 16 j 20:16	16° \mathbb{P} 16'03	

	412 Sep 24 j 18:24	0°♄		superior conj	413 Sep 10 j 03:08	17°♄59'04	1°20'23
				minimum elong	413 Sep 10 j 07:42	18°♄19'05	1°19'54
superior conj	412 Sep 28 j 18:24	6°♄43'58 0°49'22			413 Sep 17 j 04:05	0°♄	
minimum elong	412 Sep 28 j 22:55	7°♄02'47 0°48'46		max. Earth dist.	413 Sep 17 j 15:44	0°♄48'19	1.42234 AU
max. Earth dist.	412 Oct 05 j 04:20	17°♄13'14 1.43783 AU		desc. node	413 Sep 23 j 05:47	9°♄52'39	
desc. node	412 Oct 06 j 08:45	19°♄07'03		evening rise	413 Sep 23 j 21:33	10°♄55'17	
	412 Oct 13 j 06:43	0°♄			413 Oct 06 j 09:17	0°♄	
evening rise	412 Oct 14 j 07:12	1°♄34'47		evening max el	413 Oct 26 j 10:46	26°♄23'01	22°12'40
	412 Nov 02 j 09:52	0°♄			413 Oct 30 j 14:40	0°♄	
evening max el	412 Nov 12 j 15:50	12°♄53'02 20°57'44		retrograde	413 Nov 04 j 21:56	2°♄00'41	
retrograde	412 Nov 21 j 01:57	17°♄52'34		evening set	413 Nov 09 j 09:29	0°♄13'02	
asc. node	412 Nov 23 j 23:10	17°♄05'37			413 Nov 09 j 15:43	30°♄	
evening set	412 Nov 25 j 01:47	16°♄21'52		asc. node	413 Nov 10 j 20:13	28°♄51'41	
inferior conj	412 Nov 30 j 10:54	10°♄10'16 2°05'32		inferior conj	413 Nov 14 j 17:49	23°♄54'22	1°18'43
minimum elong	412 Nov 30 j 08:27	10°♄18'40 2°04'40		minimum elong	413 Nov 14 j 16:06	24°♄00'20	1°18'00
min. Earth dist.	412 Nov 30 j 21:41	9°♄33'16 0.67377 AU		min. Earth dist.	413 Nov 14 j 17:34	23°♄55'17	0.67682 AU
morning rise	412 Dec 05 j 14:55	3°♄56'45		morning rise	413 Nov 19 j 22:34	17°♄42'28	
direct	412 Dec 10 j 23:08	1°♄36'40		direct	413 Nov 24 j 15:44	15°♄44'38	
morning max el	412 Dec 21 j 18:52	8°♄04'03 23°55'20		morning max el	413 Dec 04 j 05:36	21°♄24'43	22°27'39
desc. node	413 Jan 02 j 07:56	22°♄04'21			413 Dec 11 j 13:47	0°♄	
	413 Jan 07 j 23:09	0°♄		desc. node	413 Dec 20 j 05:00	11°♄51'09	
morning set	413 Jan 26 j 08:56	29°♄06'43			414 Jan 01 j 06:29	0°♄	
	413 Jan 26 j 21:20	0°♄		morning set	414 Jan 06 j 21:22	8°♄59'07	
max. Earth dist.	413 Jan 30 j 05:08	5°♄49'14 1.38451 AU		max. Earth dist.	414 Jan 12 j 01:25	17°♄34'33	1.40584 AU
					414 Jan 19 j 04:35	0°♄	
superior conj	413 Feb 06 j 11:31	19°♄10'24 -1°48'15		superior conj	414 Jan 19 j 20:53	1°♄13'10	-2°00'41
minimum elong	413 Feb 06 j 15:14	19°♄28'03 1°47'56		minimum elong	414 Jan 19 j 22:45	1°♄21'30	2°00'37
	413 Feb 12 j 02:03	0°♄		evening rise	414 Jan 29 j 22:17	19°♄51'38	
evening rise	413 Feb 15 j 10:49	6°♄36'12			414 Feb 04 j 09:25	0°♄	
asc. node	413 Feb 19 j 22:30	15°♄14'32		asc. node	414 Feb 06 j 19:32	4°♄15'14	
	413 Mar 01 j 01:27	0°♄		evening max el	414 Feb 15 j 04:09	15°♄52'07	18°20'24
evening max el	413 Mar 03 j 22:17	3°♄12'08 18°52'48		retrograde	414 Feb 22 j 09:45	19°♄27'15	
retrograde	413 Mar 12 j 05:33	7°♄13'12		evening set	414 Feb 24 j 21:57	19°♄02'30	
evening set	413 Mar 14 j 12:16	6°♄56'15		inferior conj	414 Mar 04 j 02:11	14°♄24'03	3°18'05
inferior conj	413 Mar 22 j 10:26	2°♄38'29 2°19'57		minimum elong	414 Mar 04 j 05:32	14°♄16'59	3°17'30
minimum elong	413 Mar 22 j 14:42	2°♄30'47 2°18'46		min. Earth dist.	414 Mar 07 j 12:29	11°♄32'14	0.59208 AU
min. Earth dist.	413 Mar 25 j 16:11	0°♄19'26 0.57219 AU		morning rise	414 Mar 11 j 10:44	8°♄50'15	
	413 Mar 26 j 03:38	30°♄		direct	414 Mar 17 j 18:22	7°♄03'35	
morning rise	413 Mar 30 j 14:05	27°♄30'54		desc. node	414 Mar 18 j 04:08	7°♄04'01	
desc. node	413 Mar 31 j 07:06	27°♄13'59		morning max el	414 Apr 01 j 02:05	14°♄46'31	27°07'31
direct	413 Apr 04 j 22:54	26°♄21'24			414 Apr 13 j 08:26	0°♄	
	413 Apr 14 j 17:38	0°♄			414 Apr 30 j 07:49	0°♄	
morning max el	413 Apr 19 j 06:26	3°♄49'07 25°57'39		morning set	414 May 01 j 15:59	2°♄46'22	
	413 May 08 j 01:54	0°♄		asc. node	414 May 05 j 18:51	11°♄33'57	
morning set	413 May 17 j 06:33	17°♄57'20					
asc. node	413 May 18 j 21:47	21°♄25'49		superior conj	414 May 08 j 18:12	18°♄04'30	0°31'02
	413 May 22 j 20:25	0°♄		minimum elong	414 May 08 j 16:52	17°♄57'09	0°30'45
superior conj	413 May 24 j 06:25	3°♄06'24 0°53'59		max. Earth dist.	414 May 08 j 10:44	17°♄23'27	1.32302 AU
minimum elong	413 May 24 j 04:19	2°♄54'54 0°53'35			414 May 14 j 05:29	0°♄	
max. Earth dist.	413 May 24 j 22:01	4°♄31'56 1.32513 AU		evening rise	414 May 15 j 15:45	3°♄01'57	
evening rise	413 May 31 j 06:59	18°♄12'01			414 May 30 j 04:09	0°♄	
	413 Jun 06 j 05:25	0°♄		evening max el	414 Jun 13 j 10:54	18°♄19'04	26°12'59
	413 Jun 25 j 09:49	0°♄		desc. node	414 Jun 14 j 03:27	18°♄57'46	
desc. node	413 Jun 27 j 06:27	2°♄11'37		retrograde	414 Jun 27 j 11:21	25°♄31'32	
evening max el	413 Jul 01 j 11:02	6°♄35'07 27°05'39		evening set	414 Jul 03 j 20:17	23°♄51'45	
retrograde	413 Jul 15 j 08:56	13°♄51'28		min. Earth dist.	414 Jul 07 j 23:45	21°♄14'12	0.59297 AU
evening set	413 Jul 22 j 09:49	11°♄37'13		inferior conj	414 Jul 11 j 07:38	18°♄41'45	-4°46'16
min. Earth dist.	413 Jul 26 j 01:16	8°♄53'56 0.61347 AU		minimum elong	414 Jul 11 j 09:09	18°♄38'50	4°46'12
inferior conj	413 Jul 29 j 05:04	6°♄07'24 -4°23'09		morning rise	414 Jul 19 j 00:10	14°♄11'00	
minimum elong	413 Jul 29 j 09:18	5°♄58'03 4°22'28		direct	414 Jul 21 j 12:01	13°♄49'28	
morning rise	413 Aug 05 j 10:26	1°♄14'10		morning max el	414 Jul 29 j 07:20	17°♄34'11	18°25'28
direct	413 Aug 07 j 21:29	0°♄49'13		asc. node	414 Aug 01 j 18:04	21°♄29'55	
asc. node	413 Aug 14 j 21:00	4°♄16'18			414 Aug 07 j 06:29	0°♄	
morning max el	413 Aug 14 j 22:18	4°♄19'28 17°59'21		morning set	414 Aug 14 j 09:23	13°♄10'08	
morning set	413 Aug 30 j 20:11	29°♄23'45					
	413 Aug 31 j 04:04	0°♄		superior conj	414 Aug 23 j 11:29	0°♄24'09	1°38'48



























































































































minimum elong	414 Aug 23 j 14:15	0° \mathbb{M} 36'57	1°38'38	morning max el	415 Jul 12 j 08:28	0° \mathbb{G} 19'08	19°12'28
	414 Aug 23 j 06:15	0° \mathbb{M}		asc. node	415 Jul 19 j 15:08	9° \mathbb{G} 36'20	
max. Earth dist.	414 Aug 30 j 22:05	13° \mathbb{M} 42'33	1.40319 AU	morning set	415 Jul 29 j 07:58	27° \mathbb{G} 24'48	
evening rise	414 Sep 04 j 08:41	21° \mathbb{M} 13'55			415 Jul 30 j 15:10	0° \mathbb{Q}	
	414 Sep 09 j 18:29	0° \mathbb{L}					
desc. node	414 Sep 10 j 02:50	0° \mathbb{L} 32'57		superior conj	415 Aug 06 j 13:48	13° \mathbb{Q} 43'44	1°46'23
	414 Sep 30 j 12:23	0° \mathbb{M}		minimum elong	415 Aug 06 j 14:29	13° \mathbb{Q} 47'04	1°46'22
evening max el	414 Oct 09 j 01:13	9° \mathbb{M} 55'15	23°32'32	max. Earth dist.	415 Aug 13 j 01:26	25° \mathbb{Q} 55'59	1.38288 AU
retrograde	414 Oct 19 j 14:58	16° \mathbb{M} 09'49			415 Aug 15 j 07:41	0° \mathbb{M}	
evening set	414 Oct 24 j 15:57	14° \mathbb{M} 04'16		evening rise	415 Aug 16 j 20:32	2° \mathbb{M} 42'23	
asc. node	414 Oct 28 j 17:17	9° \mathbb{M} 29'38		desc. node	415 Aug 27 j 23:51	21° \mathbb{M} 03'54	
min. Earth dist.	414 Oct 29 j 14:09	8° \mathbb{M} 19'00	0.67657 AU		415 Sep 02 j 22:22	0° \mathbb{L}	
inferior conj	414 Oct 30 j 00:55	7° \mathbb{M} 42'12	0°27'13	evening max el	415 Sep 21 j 13:10	23° \mathbb{L} 30'41	24°50'55
minimum elong	414 Oct 30 j 00:16	7° \mathbb{M} 44'24	0°26'56		415 Oct 01 j 02:45	0° \mathbb{M}	
morning rise	414 Nov 04 j 08:32	1° \mathbb{M} 34'16		retrograde	415 Oct 03 j 04:05	0° \mathbb{M} 16'25	
direct	414 Nov 08 j 11:33	29° \mathbb{L} 58'58			415 Oct 05 j 03:11	30° \mathbb{R} \mathbb{L}	
	414 Nov 08 j 00:57	30° \mathbb{R} \mathbb{L}		evening set	415 Oct 08 j 19:31	27° \mathbb{L} 53'38	
	414 Nov 08 j 22:14	0° \mathbb{M}		min. Earth dist.	415 Oct 13 j 09:07	22° \mathbb{L} 42'38	0.67306 AU
morning max el	414 Nov 16 j 22:11	4° \mathbb{M} 54'14	21°05'59	inferior conj	415 Oct 14 j 06:28	21° \mathbb{L} 32'04	-0°27'30
	414 Dec 05 j 17:51	0° \mathbb{X}		minimum elong	415 Oct 14 j 07:08	21° \mathbb{L} 29'49	0°27'13
desc. node	414 Dec 07 j 02:03	2° \mathbb{X} 00'02		asc. node	415 Oct 15 j 14:19	19° \mathbb{L} 48'13	
morning set	414 Dec 17 j 06:07	17° \mathbb{X} 34'35		morning rise	415 Oct 19 j 18:52	15° \mathbb{L} 30'34	
max. Earth dist.	414 Dec 25 j 04:45	0° \mathbb{Z} 16'45	1.42532 AU	direct	415 Oct 23 j 09:22	14° \mathbb{L} 15'43	
	414 Dec 25 j 00:38	0° \mathbb{Z}		morning max el	415 Oct 30 j 22:29	18° \mathbb{L} 34'48	19°55'47
					415 Nov 08 j 23:57	0° \mathbb{M}	
superior conj	415 Jan 01 j 07:43	12° \mathbb{Z} 09'57	-2°00'54	desc. node	415 Nov 23 j 23:07	22° \mathbb{M} 24'56	
minimum elong	415 Jan 01 j 05:28	12° \mathbb{Z} 00'23	2°00'51	morning set	415 Nov 26 j 02:32	25° \mathbb{M} 43'08	
	415 Jan 11 j 11:41	0° \mathbb{W}			415 Nov 28 j 20:49	0° \mathbb{X}	
evening rise	415 Jan 12 j 19:52	2° \mathbb{W} 24'34		max. Earth dist.	415 Dec 07 j 15:32	13° \mathbb{X} 48'41	1.44027 AU
asc. node	415 Jan 24 j 16:35	22° \mathbb{W} 42'09					
evening max el	415 Jan 29 j 14:47	28° \mathbb{W} 53'21	18°07'45	superior conj	415 Dec 12 j 16:00	21° \mathbb{X} 53'18	-1°44'23
	415 Jan 30 j 20:03	0° \mathbb{H}		minimum elong	415 Dec 12 j 08:54	21° \mathbb{X} 24'29	1°43'51
retrograde	415 Feb 05 j 06:23	2° \mathbb{H} 18'27			415 Dec 17 j 14:31	0° \mathbb{Z}	
evening set	415 Feb 07 j 23:17	1° \mathbb{H} 44'35		evening rise	415 Dec 25 j 23:20	14° \mathbb{Z} 07'19	
	415 Feb 10 j 21:27	30° \mathbb{R} \mathbb{W}			416 Jan 04 j 08:39	0° \mathbb{W}	
inferior conj	415 Feb 14 j 13:02	26° \mathbb{W} 44'51	3°44'49	asc. node	416 Jan 11 j 13:37	10° \mathbb{W} 25'26	
minimum elong	415 Feb 14 j 14:14	26° \mathbb{W} 41'57	3°44'45	evening max el	416 Jan 13 j 03:16	12° \mathbb{W} 08'46	18°14'21
min. Earth dist.	415 Feb 17 j 15:38	23° \mathbb{W} 44'49	0.61319 AU	retrograde	416 Jan 19 j 14:50	15° \mathbb{W} 37'07	
morning rise	415 Feb 21 j 03:40	20° \mathbb{W} 53'38		evening set	416 Jan 22 j 12:18	14° \mathbb{W} 53'18	
direct	415 Feb 28 j 00:20	18° \mathbb{W} 32'36		inferior conj	416 Jan 28 j 15:10	9° \mathbb{W} 33'39	3°47'39
desc. node	415 Mar 05 j 01:11	19° \mathbb{W} 41'10		minimum elong	416 Jan 28 j 14:22	9° \mathbb{W} 35'51	3°47'37
morning max el	415 Mar 14 j 04:09	26° \mathbb{W} 23'34	27°43'48	min. Earth dist.	416 Jan 31 j 04:03	6° \mathbb{W} 47'34	0.63280 AU
	415 Mar 17 j 13:34	0° \mathbb{H}		morning rise	416 Feb 03 j 15:36	3° \mathbb{W} 31'52	
	415 Apr 06 j 20:52	0° \mathbb{Y}		direct	416 Feb 10 j 15:05	0° \mathbb{W} 47'43	
morning set	415 Apr 15 j 21:28	17° \mathbb{Y} 20'57		desc. node	416 Feb 19 j 22:15	4° \mathbb{W} 39'50	
	415 Apr 21 j 20:42	0° \mathbb{Z}		morning max el	416 Feb 24 j 11:23	8° \mathbb{W} 40'43	27°42'53
max. Earth dist.	415 Apr 21 j 22:12	0° \mathbb{Z} 08'07	1.32455 AU		416 Mar 12 j 00:05	0° \mathbb{H}	
asc. node	415 Apr 22 j 15:54	1° \mathbb{Z} 44'26			416 Mar 29 j 01:54	0° \mathbb{Y}	
				morning set	416 Mar 29 j 20:41	1° \mathbb{Y} 33'27	
superior conj	415 Apr 23 j 05:02	2° \mathbb{Z} 56'04	0°05'48	max. Earth dist.	416 Apr 04 j 04:15	12° \mathbb{Y} 31'35	1.32998 AU
minimum elong	415 Apr 23 j 04:45	2° \mathbb{Z} 54'36	0°05'45				
behind sun begin	415 Apr 22 j 23:59	2° \mathbb{Z} 28'35		superior conj	416 Apr 06 j 13:08	17° \mathbb{Y} 35'27	-0°20'54
behind sun end	415 Apr 23 j 09:31	3° \mathbb{Z} 20'38		minimum elong	416 Apr 06 j 14:09	17° \mathbb{Y} 40'51	0°20'42
evening rise	415 Apr 30 j 02:58	17° \mathbb{Z} 55'56		asc. node	416 Apr 08 j 12:56	21° \mathbb{Y} 53'18	
	415 May 06 j 02:01	0° \mathbb{I}			416 Apr 12 j 07:15	0° \mathbb{Z}	
evening max el	415 May 26 j 03:57	29° \mathbb{I} 18'57	24°53'27	evening rise	416 Apr 13 j 14:46	2° \mathbb{Z} 47'25	
	415 May 26 j 21:26	0° \mathbb{G}			416 Apr 28 j 14:01	0° \mathbb{I}	
desc. node	415 Jun 01 j 00:28	3° \mathbb{G} 54'41		evening max el	416 May 06 j 18:10	9° \mathbb{I} 53'19	23°19'32
retrograde	415 Jun 09 j 03:22	6° \mathbb{G} 24'34		desc. node	416 May 17 j 21:29	16° \mathbb{I} 25'59	
evening set	415 Jun 14 j 07:31	5° \mathbb{G} 23'31		retrograde	416 May 20 j 07:19	16° \mathbb{I} 39'12	
min. Earth dist.	415 Jun 19 j 15:22	2° \mathbb{G} 34'00	0.57333 AU	evening set	416 May 24 j 00:07	16° \mathbb{I} 09'07	
inferior conj	415 Jun 22 j 14:50	0° \mathbb{G} 35'46	-4°39'52	min. Earth dist.	416 May 31 j 04:10	12° \mathbb{I} 53'25	0.55795 AU
minimum elong	415 Jun 22 j 11:41	0° \mathbb{G} 41'00	4°39'34	inferior conj	416 Jun 02 j 02:08	11° \mathbb{I} 45'38	-3°51'14
	415 Jun 23 j 12:28	30° \mathbb{R} \mathbb{I}		minimum elong	416 Jun 01 j 19:04	11° \mathbb{I} 56'05	3°49'39
morning rise	415 Jun 30 j 18:36	26° \mathbb{I} 26'42		morning rise	416 Jun 10 j 16:45	7° \mathbb{I} 50'40	
direct	415 Jul 03 j 08:41	26° \mathbb{I} 07'30		direct	416 Jun 13 j 09:58	7° \mathbb{I} 32'41	
	415 Jul 12 j 00:07	0° \mathbb{G}		morning max el	416 Jun 23 j 23:17	12° \mathbb{I} 25'35	20°20'24

asc. node	416 Jul 05 j 12:11	28° Π 23'02		asc. node	417 Jun 22 j 09:14	17° Π 40'20	
	416 Jul 06 j 09:38	0° \mathfrak{C}		morning set	417 Jun 26 j 22:04	26° Π 48'14	
morning set	416 Jul 12 j 12:56	11° \mathfrak{C} 59'28			417 Jun 28 j 10:46	0° \mathfrak{C}	
superior conj	416 Jul 20 j 04:59	27° \mathfrak{C} 42'39	1°45'13	superior conj	417 Jul 04 j 05:10	12° \mathfrak{C} 09'41	1°37'11
minimum elong	416 Jul 20 j 04:00	27° \mathfrak{C} 37'43	1°45'11	minimum elong	417 Jul 04 j 03:09	11° \mathfrak{C} 59'07	1°37'01
	416 Jul 21 j 08:16	0° Ω		max. Earth dist.	417 Jul 07 j 20:32	19° \mathfrak{C} 40'17	1.34820 AU
max. Earth dist.	416 Jul 25 j 06:59	7° Ω 45'40	1.36396 AU	evening rise	417 Jul 12 j 09:17	28° \mathfrak{C} 37'52	
evening rise	416 Jul 29 j 06:18	15° Ω 14'23			417 Jul 13 j 02:26	0° Ω	
	416 Aug 06 j 17:08	0° \mathfrak{M}			417 Jul 30 j 21:33	0° \mathfrak{M}	
desc. node	416 Aug 13 j 20:51	11° \mathfrak{M} 19'53		desc. node	417 Jul 31 j 17:51	1° \mathfrak{M} 14'12	
	416 Aug 27 j 12:37	0° \mathfrak{L}		evening max el	417 Aug 16 j 12:42	20° \mathfrak{M} 41'03	26°53'18
evening max el	416 Sep 03 j 00:39	7° \mathfrak{L} 07'34	26°00'29	retrograde	417 Aug 29 j 15:49	27° \mathfrak{M} 57'55	
retrograde	416 Sep 15 j 12:35	14° \mathfrak{L} 14'30		evening set	417 Sep 05 j 10:06	25° \mathfrak{M} 13'26	
evening set	416 Sep 21 j 18:18	11° \mathfrak{L} 37'46		min. Earth dist.	417 Sep 09 j 08:47	21° \mathfrak{M} 15'20	0.65597 AU
min. Earth dist.	416 Sep 26 j 00:07	7° \mathfrak{L} 02'44	0.66623 AU	inferior conj	417 Sep 11 j 05:27	19° \mathfrak{M} 05'14	-2°20'19
inferior conj	416 Sep 27 j 08:38	5° \mathfrak{L} 20'45	-1°23'59	minimum elong	417 Sep 11 j 09:01	18° \mathfrak{M} 54'48	2°18'59
minimum elong	416 Sep 27 j 10:47	5° \mathfrak{L} 14'01	1°23'05	morning rise	417 Sep 17 j 08:32	13° \mathfrak{M} 25'06	
asc. node	416 Oct 01 j 11:22	0° \mathfrak{L} 43'59		asc. node	417 Sep 18 j 08:26	12° \mathfrak{M} 59'27	
	416 Oct 02 j 08:53	30° \mathfrak{R} \mathfrak{M}		direct	417 Sep 20 j 04:43	12° \mathfrak{M} 40'36	
morning rise	416 Oct 03 j 03:35	29° \mathfrak{M} 28'26		morning max el	417 Sep 26 j 18:41	16° \mathfrak{M} 16'07	18°20'18
direct	416 Oct 06 j 07:43	28° \mathfrak{M} 30'39			417 Oct 06 j 19:22	0° \mathfrak{L}	
	416 Oct 10 j 10:59	0° \mathfrak{L}		morning set	417 Oct 15 j 23:25	14° \mathfrak{L} 49'40	
morning max el	416 Oct 13 j 05:56	2° \mathfrak{L} 23'23	19°00'00		417 Oct 25 j 09:08	0° \mathfrak{M}	
	416 Nov 01 j 13:13	0° \mathfrak{M}		desc. node	417 Oct 27 j 17:09	3° \mathfrak{M} 42'54	
morning set	416 Nov 04 j 11:16	4° \mathfrak{M} 34'49		superior conj	417 Oct 31 j 01:28	9° \mathfrak{M} 00'37	-0°21'58
desc. node	416 Nov 09 j 20:09	13° \mathfrak{M} 00'26		minimum elong	417 Oct 30 j 22:35	8° \mathfrak{M} 49'16	0°21'35
max. Earth dist.	416 Nov 19 j 07:24	27° \mathfrak{M} 52'18	1.44886 AU	max. Earth dist.	417 Nov 02 j 01:57	12° \mathfrak{M} 11'36	1.45024 AU
	416 Nov 20 j 15:49	0° \mathfrak{X}			417 Nov 13 j 10:40	0° \mathfrak{X}	
superior conj	416 Nov 21 j 00:39	0° \mathfrak{X} 34'50	-1°09'27	evening rise	417 Nov 16 j 10:00	4° \mathfrak{X} 39'16	
minimum elong	416 Nov 20 j 16:39	0° \mathfrak{X} 03'18	1°08'31	greatest brilliancy	417 Nov 27 j 09:50	21° \mathfrak{X} 47'42	-0.8m
evening rise	416 Dec 06 j 04:30	24° \mathfrak{X} 52'10			417 Dec 02 j 21:39	0° \mathfrak{Z}	
	416 Dec 09 j 08:00	0° \mathfrak{Z}		evening max el	417 Dec 09 j 23:36	8° \mathfrak{Z} 59'44	19°21'43
evening max el	416 Dec 26 j 14:57	25° \mathfrak{Z} 32'20	18°39'28	asc. node	417 Dec 15 j 07:41	12° \mathfrak{Z} 48'15	
asc. node	416 Dec 28 j 10:39	27° \mathfrak{Z} 12'22		retrograde	417 Dec 17 j 02:54	13° \mathfrak{Z} 06'13	
retrograde	417 Jan 02 j 06:48	29° \mathfrak{Z} 15'03		evening set	417 Dec 20 j 12:30	11° \mathfrak{Z} 58'42	
evening set	417 Jan 05 j 09:37	28° \mathfrak{Z} 20'09		inferior conj	417 Dec 26 j 02:08	6° \mathfrak{Z} 05'39	3°06'12
inferior conj	417 Jan 11 j 04:38	22° \mathfrak{Z} 42'37	3°33'12	minimum elong	417 Dec 25 j 23:26	6° \mathfrak{Z} 14'21	3°05'34
minimum elong	417 Jan 11 j 02:32	22° \mathfrak{Z} 48'57	3°32'54	min. Earth dist.	417 Dec 27 j 08:56	4° \mathfrak{Z} 26'22	0.66180 AU
min. Earth dist.	417 Jan 13 j 02:11	20° \mathfrak{Z} 25'51	0.64922 AU	morning rise	417 Dec 31 j 10:06	29° \mathfrak{X} 54'10	
morning rise	417 Jan 16 j 19:00	16° \mathfrak{Z} 34'40			417 Dec 31 j 07:31	30° \mathfrak{R} \mathfrak{X}	
direct	417 Jan 23 j 13:07	13° \mathfrak{Z} 42'15		direct	418 Jan 06 j 17:14	27° \mathfrak{X} 07'15	
desc. node	417 Feb 05 j 19:18	21° \mathfrak{Z} 23'55			418 Jan 14 j 01:06	0° \mathfrak{Z}	
morning max el	417 Feb 05 j 20:53	21° \mathfrak{Z} 27'52	27°07'45	morning max el	418 Jan 19 j 06:12	4° \mathfrak{Z} 32'26	26°05'30
	417 Feb 13 j 07:54	0° \mathfrak{A}		desc. node	418 Jan 23 j 16:21	9° \mathfrak{Z} 33'01	
	417 Mar 05 j 03:38	0° \mathfrak{H}			418 Feb 07 j 18:37	0° \mathfrak{A}	
morning set	417 Mar 13 j 10:39	15° \mathfrak{H} 14'33		morning set	418 Feb 24 j 11:17	28° \mathfrak{A} 11'02	
max. Earth dist.	417 Mar 18 j 01:02	24° \mathfrak{H} 23'11	1.33972 AU		418 Feb 25 j 10:37	0° \mathfrak{H}	
	417 Mar 20 j 18:19	0° \mathfrak{Y}		max. Earth dist.	418 Feb 28 j 10:05	5° \mathfrak{H} 41'00	1.35412 AU
superior conj	417 Mar 21 j 16:36	1° \mathfrak{Y} 56'36	-0°48'00	superior conj	418 Mar 05 j 12:56	15° \mathfrak{H} 51'24	-1°14'08
minimum elong	417 Mar 21 j 18:56	2° \mathfrak{Y} 08'50	0°47'33	minimum elong	418 Mar 05 j 16:23	16° \mathfrak{H} 08'58	1°13'34
asc. node	417 Mar 26 j 09:58	11° \mathfrak{Y} 56'37			418 Mar 12 j 09:43	0° \mathfrak{Y}	
evening rise	417 Mar 29 j 01:20	17° \mathfrak{Y} 30'30		evening rise	418 Mar 13 j 08:41	1° \mathfrak{Y} 58'03	
	417 Apr 04 j 07:32	0° \mathfrak{B}		asc. node	418 Mar 13 j 07:00	1° \mathfrak{Y} 49'22	
evening max el	417 Apr 18 j 12:55	20° \mathfrak{B} 33'28	21°46'04		418 Mar 30 j 01:59	0° \mathfrak{B}	
retrograde	417 Apr 30 j 23:56	26° \mathfrak{B} 38'54		evening max el	418 Mar 31 j 17:35	1° \mathfrak{B} 42'25	20°24'20
evening set	417 May 03 j 13:10	26° \mathfrak{B} 24'18		retrograde	418 Apr 11 j 13:07	6° \mathfrak{B} 54'59	
desc. node	417 May 04 j 18:29	26° \mathfrak{B} 07'31		evening set	418 Apr 13 j 15:46	6° \mathfrak{B} 43'55	
inferior conj	417 May 12 j 23:10	22° \mathfrak{B} 21'17	-2°17'47	desc. node	418 Apr 21 j 15:31	3° \mathfrak{B} 25'03	
minimum elong	417 May 12 j 17:02	22° \mathfrak{B} 29'53	2°15'47	inferior conj	418 Apr 22 j 18:19	2° \mathfrak{B} 46'12	-0°19'17
min. Earth dist.	417 May 12 j 16:56	22° \mathfrak{B} 30'02	0.55019 AU	minimum elong	418 Apr 22 j 17:25	2° \mathfrak{B} 47'31	0°18'57
morning rise	417 May 21 j 21:55	18° \mathfrak{B} 24'55		min. Earth dist.	418 Apr 24 j 06:15	1° \mathfrak{B} 53'47	0.55194 AU
direct	417 May 24 j 22:21	18° \mathfrak{B} 04'49			418 Apr 27 j 18:43	30° \mathfrak{R} \mathfrak{Y}	
morning max el	417 Jun 06 j 02:57	23° \mathfrak{B} 49'22	21°47'05	morning rise	418 May 01 j 17:42	28° \mathfrak{Y} 30'04	
	417 Jun 11 j 15:01	0° \mathfrak{I}		direct	418 May 05 j 10:18	28° \mathfrak{Y} 00'30	

	418 May 12 j 17:50	0°♄		morning max el	419 Apr 30 j 12:00	15°♄03'54	25°06'04
morning max el	418 May 18 j 21:22	4°♄34'53	23°26'17		419 May 12 j 09:21	0°♄	
	418 Jun 05 j 13:08	0°♄		morning set	419 May 26 j 21:24	26°♄42'28	
asc. node	418 Jun 09 j 06:17	7°♄19'18		asc. node	419 May 27 j 03:19	27°♄13'45	
morning set	418 Jun 11 j 09:27	11°♄44'22			419 May 28 j 10:34	0°♄	
superior conj	418 Jun 18 j 11:20	26°♄54'25	1°23'42	superior conj	419 Jun 02 j 21:10	11°♄49'32	1°05'52
minimum elong	418 Jun 18 j 08:53	26°♄41'15	1°23'23	minimum elong	419 Jun 02 j 18:49	11°♄36'40	1°05'28
	418 Jun 19 j 22:04	0°♄		max. Earth dist.	419 Jun 04 j 02:56	14°♄31'27	1.32814 AU
max. Earth dist.	418 Jun 20 j 19:49	1°♄55'19	1.33624 AU	evening rise	419 Jun 10 j 01:13	27°♄05'31	
evening rise	418 Jun 26 j 00:49	12°♄38'38			419 Jun 11 j 11:34	0°♄	
	418 Jul 05 j 07:58	0°♄			419 Jun 28 j 16:17	0°♄	
desc. node	418 Jul 18 j 14:51	20°♄37'02		desc. node	419 Jul 05 j 11:53	9°♄15'06	
	418 Jul 26 j 03:48	0°♄		evening max el	419 Jul 12 j 09:08	16°♄49'46	27°20'59
evening max el	418 Jul 30 j 00:18	3°♄59'41	27°22'07	retrograde	419 Jul 26 j 04:04	24°♄07'14	
retrograde	418 Aug 12 j 13:08	11°♄18'32		evening set	419 Aug 02 j 08:47	21°♄38'19	
evening set	418 Aug 19 j 16:07	8°♄35'41		min. Earth dist.	419 Aug 05 j 22:40	18°♄44'28	0.62475 AU
min. Earth dist.	418 Aug 23 j 08:51	5°♄12'56	0.64209 AU	inferior conj	419 Aug 08 j 20:53	15°♄58'39	-4°01'12
inferior conj	418 Aug 25 j 18:30	2°♄40'12	-3°14'00	minimum elong	419 Aug 09 j 01:43	15°♄47'12	4°00'08
minimum elong	418 Aug 25 j 23:09	2°♄27'52	3°12'34	morning rise	419 Aug 15 j 19:58	10°♄53'24	
	418 Aug 28 j 09:54	30°♄♄		direct	419 Aug 18 j 07:45	10°♄25'31	
morning rise	418 Sep 01 j 07:05	27°♄15'46		asc. node	419 Aug 23 j 02:33	12°♄10'46	
direct	418 Sep 03 j 21:49	26°♄41'02		morning max el	419 Aug 25 j 01:40	13°♄51'34	17°53'24
asc. node	418 Sep 05 j 05:29	26°♄50'00			419 Sep 05 j 02:39	0°♄	
	418 Sep 10 j 07:08	0°♄		morning set	419 Sep 10 j 05:21	9°♄04'56	
morning max el	418 Sep 10 j 10:13	0°♄07'38	17°57'50	superior conj	419 Sep 21 j 09:27	28°♄40'36	1°04'08
morning set	418 Sep 27 j 15:21	26°♄25'45		minimum elong	419 Sep 21 j 14:21	29°♄01'26	1°03'33
	418 Sep 29 j 17:42	0°♄			419 Sep 22 j 04:11	0°♄	
superior conj	418 Oct 10 j 16:17	18°♄11'18	0°25'50	max. Earth dist.	419 Sep 28 j 11:03	10°♄25'14	1.43181 AU
minimum elong	418 Oct 10 j 19:09	18°♄22'57	0°25'27	desc. node	419 Oct 01 j 11:13	15°♄15'56	
desc. node	418 Oct 14 j 14:11	24°♄29'13		evening rise	419 Oct 06 j 05:35	22°♄47'05	
max. Earth dist.	418 Oct 15 j 20:16	26°♄29'06	1.44429 AU		419 Oct 10 j 21:56	0°♄	
	418 Oct 18 j 01:33	0°♄			419 Oct 31 j 21:42	0°♄	
evening rise	418 Oct 26 j 21:30	13°♄45'24		evening max el	419 Nov 06 j 01:26	5°♄57'06	21°28'40
	418 Nov 06 j 13:39	0°♄		retrograde	419 Nov 14 j 21:43	11°♄12'44	
evening max el	418 Nov 23 j 03:26	22°♄28'29	20°19'04	evening set	419 Nov 19 j 02:24	9°♄34'45	
retrograde	418 Dec 01 j 00:35	27°♄06'43		asc. node	419 Nov 19 j 01:47	9°♄35'56	
asc. node	418 Dec 02 j 04:44	26°♄58'55		inferior conj	419 Nov 24 j 10:58	3°♄19'32	1°46'18
evening set	418 Dec 04 j 18:45	25°♄44'49		minimum elong	419 Nov 24 j 08:47	3°♄27'05	1°45'29
inferior conj	418 Dec 10 j 04:59	19°♄39'00	2°29'51	min. Earth dist.	419 Nov 24 j 16:51	2°♄59'14	0.67544 AU
minimum elong	418 Dec 10 j 02:18	19°♄48'05	2°28'59		419 Nov 26 j 22:35	30°♄♄	
min. Earth dist.	418 Dec 10 j 22:34	18°♄39'40	0.67045 AU	morning rise	419 Nov 29 j 15:02	27°♄06'35	
morning rise	418 Dec 15 j 09:41	13°♄25'54		direct	419 Dec 04 j 16:42	24°♄56'03	
direct	418 Dec 21 j 02:38	10°♄54'26			419 Dec 13 j 21:53	0°♄	
morning max el	419 Jan 01 j 14:40	17°♄45'38	24°45'33	morning max el	419 Dec 14 j 23:48	1°♄03'27	23°17'52
desc. node	419 Jan 10 j 13:23	28°♄15'18		desc. node	419 Dec 28 j 10:26	17°♄45'03	
	419 Jan 11 j 21:11	0°♄			420 Jan 05 j 20:25	0°♄	
	419 Jan 31 j 19:34	0°♄		morning set	420 Jan 18 j 22:20	20°♄49'00	
morning set	419 Feb 06 j 17:17	10°♄08'11		max. Earth dist.	420 Jan 23 j 04:19	28°♄04'39	1.39360 AU
max. Earth dist.	419 Feb 10 j 09:10	16°♄44'01	1.37263 AU		420 Jan 24 j 06:43	0°♄	
superior conj	419 Feb 16 j 23:02	29°♄11'19	-1°37'18	superior conj	420 Jan 30 j 18:47	11°♄44'56	-1°54'43
minimum elong	419 Feb 17 j 03:00	29°♄30'38	1°36'50	minimum elong	420 Jan 30 j 21:58	11°♄59'44	1°54'31
	419 Feb 17 j 09:01	0°♄		evening rise	420 Feb 09 j 04:14	29°♄39'18	
evening rise	419 Feb 25 j 10:35	16°♄03'42			420 Feb 09 j 08:32	0°♄	
asc. node	419 Feb 28 j 04:02	21°♄26'54		asc. node	420 Feb 15 j 01:05	10°♄42'51	
	419 Mar 04 j 18:00	0°♄		evening max el	420 Feb 25 j 11:03	25°♄51'50	18°36'32
evening max el	419 Mar 14 j 09:31	13°♄29'35	19°20'26	retrograde	420 Mar 04 j 06:09	29°♄40'20	
retrograde	419 Mar 23 j 12:36	17°♄53'16		evening set	420 Mar 06 j 15:07	29°♄20'23	
evening set	419 Mar 25 j 16:30	17°♄39'32		inferior conj	420 Mar 14 j 05:18	24°♄53'54	2°48'51
inferior conj	419 Apr 03 j 01:44	13°♄31'17	1°30'23	minimum elong	420 Mar 14 j 09:27	24°♄45'52	2°47'52
minimum elong	419 Apr 03 j 05:10	13°♄25'37	1°29'16	min. Earth dist.	420 Mar 17 j 14:42	22°♄18'06	0.58024 AU
min. Earth dist.	419 Apr 05 j 20:57	11°♄40'55	0.56278 AU	morning rise	420 Mar 22 j 00:54	19°♄33'44	
desc. node	419 Apr 08 j 12:33	10°♄06'36		desc. node	420 Mar 25 j 09:35	18°♄24'10	
morning rise	419 Apr 11 j 15:02	8°♄42'47		direct	420 Mar 27 j 20:05	18°♄09'06	
direct	419 Apr 16 j 08:14	7°♄51'55		morning max el	420 Apr 11 j 04:51	25°♄44'48	26°31'02

	420 Apr 15 j 04:24	0°♄			421 Mar 14 j 05:08	0°♄	
	420 May 04 j 13:34	0°♄		morning max el	421 Mar 24 j 03:15	6°♄58'12	27°27'29
morning set	420 May 10 j 08:16	11°♄37'00			421 Apr 10 j 11:35	0°♄	
asc. node	420 May 13 j 00:23	17°♄18'31		morning set	421 Apr 24 j 16:15	26°♄20'53	
					421 Apr 26 j 10:04	0°♄	
superior conj	420 May 17 j 08:46	26°♄48'40	0°44'35	asc. node	421 Apr 29 j 21:25	7°♄28'20	
minimum elong	420 May 17 j 06:57	26°♄38'41	0°44'13	max. Earth dist.	421 May 01 j 03:04	10°♄10'21	1.32311 AU
max. Earth dist.	420 May 17 j 14:38	27°♄20'51	1.32377 AU				
	420 May 18 j 19:38	0°♄		superior conj	421 May 01 j 20:20	11°♄44'59	0°20'35
evening rise	420 May 24 j 07:38	11°♄49'30		minimum elong	421 May 01 j 19:25	11°♄39'57	0°20'23
	420 Jun 02 j 15:59	0°♄		evening rise	421 May 08 j 17:38	26°♄42'00	
desc. node	420 Jun 21 j 08:54	26°♄49'52			421 May 10 j 07:30	0°♄	
evening max el	420 Jun 23 j 12:40	28°♄59'50	26°46'57		421 May 27 j 13:02	0°♄	
	420 Jun 24 j 14:44	0°♄		evening max el	421 Jun 05 j 09:23	10°♄24'16	25°41'55
retrograde	420 Jul 07 j 11:52	6°♄15'15		desc. node	421 Jun 08 j 05:55	12°♄54'23	
evening set	420 Jul 14 j 07:42	4°♄14'04		retrograde	421 Jun 19 j 10:34	17°♄35'25	
min. Earth dist.	420 Jul 18 j 02:21	1°♄35'43	0.60482 AU	evening set	421 Jun 25 j 08:27	16°♄12'19	
	420 Jul 20 j 00:58	30°♄		min. Earth dist.	421 Jun 29 j 21:45	13°♄31'29	0.58428 AU
inferior conj	420 Jul 21 j 09:13	28°♄52'22	-4°35'46	inferior conj	421 Jul 03 j 03:54	11°♄11'02	-4°48'00
minimum elong	420 Jul 21 j 12:35	28°♄45'22	4°35'22	minimum elong	421 Jul 03 j 03:36	11°♄11'35	4°48'00
morning rise	420 Jul 28 j 19:23	24°♄08'58		morning rise	421 Jul 11 j 01:14	6°♄49'56	
direct	420 Jul 31 j 06:30	23°♄45'43		direct	421 Jul 13 j 13:41	6°♄29'40	
morning max el	420 Aug 07 j 14:03	27°♄20'35	18°08'01	morning max el	421 Jul 21 j 20:09	10°♄24'32	18°42'48
asc. node	420 Aug 08 j 23:36	28°♄48'16		asc. node	421 Jul 26 j 20:39	16°♄26'19	
	420 Aug 09 j 23:56	0°♄			421 Aug 03 j 19:52	0°♄	
morning set	420 Aug 23 j 11:31	22°♄31'05		morning set	421 Aug 07 j 05:07	6°♄30'42	
	420 Aug 27 j 11:32	0°♄					
				superior conj	421 Aug 15 j 21:42	23°♄18'51	1°43'13
superior conj	420 Sep 02 j 05:02	10°♄28'29	1°29'39	minimum elong	421 Aug 15 j 23:34	23°♄27'39	1°43'07
minimum elong	420 Sep 02 j 08:57	10°♄46'02	1°29'18		421 Aug 19 j 12:05	0°♄	
max. Earth dist.	420 Sep 09 j 20:06	23°♄43'42	1.41446 AU	max. Earth dist.	421 Aug 23 j 00:09	6°♄17'30	1.39455 AU
	420 Sep 13 j 14:51	0°♄		evening rise	421 Aug 27 j 01:27	13°♄18'28	
evening rise	420 Sep 15 j 03:43	2°♄29'42		desc. node	421 Sep 04 j 05:18	26°♄37'08	
desc. node	420 Sep 17 j 08:16	6°♄00'05			421 Sep 06 j 09:31	0°♄	
	420 Oct 03 j 07:43	0°♄			421 Sep 28 j 10:35	0°♄	
evening max el	420 Oct 18 j 18:06	19°♄27'27	22°46'20	evening max el	421 Oct 01 j 07:12	3°♄01'09	24°06'30
retrograde	420 Oct 28 j 16:45	25°♄21'55		retrograde	421 Oct 12 j 08:17	9°♄30'21	
evening set	420 Nov 02 j 09:47	23°♄26'38		evening set	421 Oct 17 j 15:13	7°♄17'32	
asc. node	420 Nov 04 j 22:50	20°♄48'58		min. Earth dist.	421 Oct 22 j 09:43	1°♄46'19	0.67546 AU
inferior conj	420 Nov 07 j 18:12	17°♄05'45	0°57'20	asc. node	421 Oct 22 j 19:52	1°♄11'59	
minimum elong	420 Nov 07 j 16:54	17°♄10'15	0°56'47	inferior conj	421 Oct 23 j 00:51	0°♄55'06	0°04'19
min. Earth dist.	420 Nov 07 j 13:24	17°♄22'20	0.67708 AU	minimum elong	421 Oct 23 j 00:45	0°♄55'27	0°04'16
morning rise	420 Nov 12 j 23:54	10°♄55'06		transit middle	421 Oct 23 j 00:45	0°♄55'27	0°04'16
direct	420 Nov 17 j 10:47	9°♄07'08		transit begin	421 Oct 22 j 22:07	1°♄04'22	
morning max el	420 Nov 26 j 12:45	14°♄27'59	21°51'44	transit end	421 Oct 23 j 03:23	0°♄46'34	
	420 Dec 08 j 22:41	0°♄			421 Oct 23 j 17:13	30°♄	
desc. node	420 Dec 14 j 07:30	7°♄42'04		morning rise	421 Oct 28 j 10:16	24°♄49'16	
morning set	420 Dec 28 j 22:11	0°♄05'39		direct	421 Nov 01 j 07:42	23°♄22'56	
	420 Dec 28 j 20:47	0°♄		morning max el	421 Nov 09 j 08:25	28°♄01'55	20°34'23
max. Earth dist.	421 Jan 04 j 02:43	10°♄11'30	1.41448 AU		421 Nov 11 j 04:27	0°♄	
				desc. node	421 Dec 01 j 04:34	27°♄58'38	
superior conj	421 Jan 11 j 19:08	23°♄20'25	-2°02'33		421 Dec 02 j 12:31	0°♄	
minimum elong	421 Jan 11 j 19:30	23°♄22'03	2°02'33	morning set	421 Dec 07 j 22:48	8°♄20'55	
	421 Jan 15 j 12:53	0°♄		max. Earth dist.	421 Dec 17 j 08:49	23°♄14'41	1.43235 AU
evening rise	421 Jan 22 j 10:15	12°♄37'16			421 Dec 21 j 12:15	0°♄	
asc. node	421 Jan 31 j 22:08	29°♄30'12					
	421 Feb 01 j 05:33	0°♄		superior conj	421 Dec 23 j 18:58	3°♄46'46	-1°56'10
evening max el	421 Feb 07 j 19:16	8°♄41'31	18°12'41	minimum elong	421 Dec 23 j 14:32	3°♄28'18	1°55'57
retrograde	421 Feb 14 j 17:45	12°♄10'42		evening rise	422 Jan 05 j 00:39	24°♄49'44	
evening set	421 Feb 17 j 07:54	11°♄42'21			422 Jan 07 j 23:07	0°♄	
inferior conj	421 Feb 24 j 05:32	6°♄55'05	3°32'49	asc. node	422 Jan 18 j 19:10	17°♄40'19	
minimum elong	421 Feb 24 j 08:01	6°♄49'31	3°32'31	evening max el	422 Jan 22 j 07:06	21°♄50'23	18°08'21
min. Earth dist.	421 Feb 27 j 13:49	3°♄56'22	0.60103 AU	retrograde	422 Jan 28 j 19:46	25°♄15'03	
morning rise	421 Mar 03 j 06:04	1°♄12'36		evening set	422 Jan 31 j 14:39	29°♄37'01	
	421 Mar 05 j 15:30	30°♄		inferior conj	422 Feb 06 j 23:22	19°♄28'54	3°48'29
direct	421 Mar 09 j 20:32	29°♄10'03		minimum elong	422 Feb 06 j 23:39	19°♄28'10	3°48'29
desc. node	421 Mar 12 j 06:39	29°♄25'49		min. Earth dist.	422 Feb 09 j 20:43	16°♄32'16	0.62184 AU

morning rise	422 Feb 13 j 07:29	13° \approx 32'45		min. Earth dist.	423 Jan 23 j 13:03	29° \approx 52'08	0.64026 AU
direct	422 Feb 20 j 06:43	10° \approx 59'52		morning rise	423 Jan 27 j 02:26	26° \approx 22'20	
desc. node	422 Feb 27 j 03:42	13° \approx 07'47		direct	423 Feb 03 j 00:33	23° \approx 33'04	
morning max el	422 Mar 06 j 07:32	18° \approx 52'31	27°47'55	desc. node	423 Feb 14 j 00:45	28° \approx 55'31	
	422 Mar 15 j 17:42	0° \approx			423 Feb 15 j 05:23	0° \approx	
	422 Apr 03 j 07:07	0° \approx		morning max el	423 Feb 16 j 15:56	1° \approx 23'21	27°31'50
morning set	422 Apr 08 j 19:22	10° \approx 47'18			423 Mar 09 j 21:01	0° \approx	
max. Earth dist.	422 Apr 14 j 12:35	22° \approx 47'18	1.32631 AU	morning set	423 Mar 23 j 15:00	24° \approx 47'13	
					423 Mar 26 j 05:20	0° \approx	
superior conj	422 Apr 16 j 06:14	26° \approx 32'40	-0°05'24	max. Earth dist.	423 Mar 28 j 15:11	4° \approx 58'22	1.33362 AU
minimum elong	422 Apr 16 j 06:30	26° \approx 34'02	0°05'21				
behind sun begin	422 Apr 16 j 01:37	26° \approx 07'34		superior conj	423 Mar 31 j 12:36	11° \approx 04'49	-0°32'25
behind sun end	422 Apr 16 j 11:22	27° \approx 00'32		minimum elong	423 Mar 31 j 14:10	11° \approx 13'12	0°32'05
asc. node	422 Apr 16 j 18:28	27° \approx 39'07		asc. node	423 Apr 03 j 15:30	17° \approx 46'04	
	422 Apr 17 j 20:21	0° \approx		evening rise	423 Apr 07 j 16:48	26° \approx 24'48	
evening rise	422 Apr 23 j 05:19	11° \approx 36'10			423 Apr 09 j 10:07	0° \approx	
	422 May 02 j 15:02	0° \approx			423 Apr 27 j 23:19	0° \approx	
evening max el	422 May 18 j 00:44	21° \approx 11'19	24°14'32	evening max el	423 Apr 29 j 15:57	1° \approx 43'53	22°38'53
desc. node	422 May 26 j 02:54	26° \approx 15'42		retrograde	423 May 12 j 19:36	8° \approx 14'29	
retrograde	422 May 31 j 21:27	28° \approx 10'08		desc. node	423 May 12 j 23:55	8° \approx 14'25	
evening set	422 Jun 05 j 10:30	27° \approx 12'41		evening set	423 May 15 j 23:11	7° \approx 52'43	
min. Earth dist.	422 Jun 11 j 11:56	24° \approx 12'45	0.56610 AU	min. Earth dist.	423 May 24 j 00:06	4° \approx 22'39	0.55361 AU
inferior conj	422 Jun 14 j 02:28	22° \approx 14'52	-4°25'00	inferior conj	423 May 25 j 06:27	3° \approx 39'22	-3°16'29
minimum elong	422 Jun 13 j 21:19	22° \approx 55'01	4°24'14	minimum elong	423 May 24 j 23:03	3° \approx 49'57	3°14'27
morning rise	422 Jun 22 j 10:54	18° \approx 44'45			423 Jun 02 j 02:49	30° \approx	
direct	422 Jun 25 j 02:11	18° \approx 26'11		morning rise	423 Jun 03 j 01:06	29° \approx 46'20	
morning max el	422 Jul 04 j 17:03	22° \approx 15'40	19°38'42	direct	423 Jun 05 j 20:55	29° \approx 27'53	
	422 Jul 10 j 15:17	0° \approx			423 Jun 09 j 11:52	0° \approx	
asc. node	422 Jul 13 j 17:43	4° \approx 51'29		morning max el	423 Jun 17 j 02:54	4° \approx 41'30	20°55'17
morning set	422 Jul 22 j 06:44	20° \approx 55'02		asc. node	423 Jun 30 j 14:46	23° \approx 12'16	
	422 Jul 26 j 18:39	0° \approx			423 Jul 03 j 19:13	0° \approx	
				morning set	423 Jul 06 j 13:45	5° \approx 36'45	
superior conj	422 Jul 30 j 06:01	6° \approx 56'39	1°46'50				
minimum elong	422 Jul 30 j 05:56	6° \approx 56'14	1°46'49	superior conj	423 Jul 14 j 01:26	21° \approx 08'52	1°42'33
max. Earth dist.	422 Aug 05 j 03:51	18° \approx 18'36	1.37465 AU	minimum elong	423 Jul 13 j 23:57	21° \approx 01'13	1°42'29
evening rise	422 Aug 08 j 23:12	25° \approx 15'41			423 Jul 18 j 10:49	0° \approx	
	422 Aug 11 j 15:49	0° \approx		max. Earth dist.	423 Jul 18 j 12:43	0° \approx 09'22	1.35685 AU
desc. node	422 Aug 22 j 02:17	17° \approx 02'31		evening rise	423 Jul 22 j 16:52	8° \approx 11'13	
	422 Aug 30 j 23:39	0° \approx			423 Aug 04 j 07:21	0° \approx	
evening max el	422 Sep 13 j 19:00	16° \approx 38'29	25°22'05	desc. node	423 Aug 08 j 23:16	7° \approx 10'36	
retrograde	422 Sep 25 j 19:23	23° \approx 33'49			423 Aug 27 j 00:24	0° \approx	
evening set	422 Oct 01 j 16:58	21° \approx 04'50		evening max el	423 Aug 27 j 06:47	0° \approx 15'33	26°25'23
min. Earth dist.	422 Oct 06 j 03:18	16° \approx 08'49	0.67062 AU	retrograde	423 Sep 09 j 01:31	7° \approx 27'15	
inferior conj	422 Oct 07 j 05:12	14° \approx 44'54	-0°51'21	evening set	423 Sep 15 j 13:05	4° \approx 46'12	
minimum elong	422 Oct 07 j 06:30	14° \approx 40'42	0°50'48	min. Earth dist.	423 Sep 19 j 15:47	0° \approx 27'06	0.66237 AU
asc. node	422 Oct 09 j 16:55	11° \approx 39'46			423 Sep 20 j 00:46	30° \approx	
morning rise	422 Oct 12 j 20:10	8° \approx 46'49		inferior conj	423 Sep 21 j 05:22	28° \approx 32'43	-1°48'00
direct	422 Oct 16 j 06:05	7° \approx 39'28		minimum elong	423 Sep 21 j 08:09	28° \approx 24'16	1°46'53
morning max el	422 Oct 23 j 11:49	11° \approx 45'51	19°30'04	asc. node	423 Sep 26 j 13:58	23° \approx 06'26	
	422 Nov 06 j 01:03	0° \approx		morning rise	423 Sep 27 j 03:37	22° \approx 45'22	
morning set	422 Nov 16 j 21:34	16° \approx 39'53		direct	423 Sep 30 j 04:09	21° \approx 53'38	
desc. node	422 Nov 18 j 01:36	18° \approx 28'35		morning max el	423 Oct 06 j 21:54	25° \approx 37'30	18°41'06
	422 Nov 25 j 10:53	0° \approx			423 Oct 10 j 15:24	0° \approx	
max. Earth dist.	422 Nov 29 j 22:27	7° \approx 03'45	1.44482 AU	morning set	423 Oct 27 j 17:17	26° \approx 06'11	
					423 Oct 30 j 04:07	0° \approx	
superior conj	422 Dec 03 j 16:08	13° \approx 00'39	-1°31'40	desc. node	423 Nov 04 j 22:37	9° \approx 07'52	
minimum elong	422 Dec 03 j 07:51	12° \approx 27'35	1°30'53				
	422 Dec 14 j 02:32	0° \approx		superior conj	423 Nov 12 j 18:48	21° \approx 28'11	-0°50'09
evening rise	422 Dec 17 j 18:59	6° \approx 08'23		minimum elong	423 Nov 12 j 12:26	21° \approx 03'10	0°49'22
	423 Jan 01 j 14:09	0° \approx		max. Earth dist.	423 Nov 12 j 16:26	21° \approx 18'53	1.45039 AU
asc. node	423 Jan 05 j 16:12	5° \approx 01'30			423 Nov 18 j 04:53	0° \approx	
evening max el	423 Jan 05 j 19:36	5° \approx 10'12	18°22'53	evening rise	423 Nov 28 j 14:04	16° \approx 28'55	
retrograde	423 Jan 12 j 07:51	8° \approx 43'05		greatest brilliancy	423 Dec 06 j 04:42	28° \approx 28'50	-0.8m
evening set	423 Jan 15 j 07:34	7° \approx 54'31			423 Dec 07 j 01:10	0° \approx	
inferior conj	423 Jan 21 j 06:44	2° \approx 26'52	3°43'18	evening max el	423 Dec 20 j 06:13	18° \approx 35'50	18°55'22
minimum elong	423 Jan 21 j 05:17	2° \approx 31'00	3°43'10	asc. node	423 Dec 23 j 13:14	21° \approx 20'23	
	423 Jan 23 j 10:13	30° \approx		retrograde	423 Dec 27 j 02:05	22° \approx 27'44	

evening set	423 Dec 30 j 07:36	21°  27'33	retrograde	424 Dec 09 j 23:16	6°  23'21	
inferior conj	424 Jan 05 j 00:01	15°  42'47 3°23'05	evening set	424 Dec 13 j 12:11	5°  10'03	
minimum elong	424 Jan 04 j 21:35	15°  50'22 3°22'36		424 Dec 18 j 09:14	30°  R 	
min. Earth dist.	424 Jan 06 j 15:01	13°  41'39 0.65506 AU	inferior conj	424 Dec 19 j 00:08	29°  11'02 2°51'47	
morning rise	424 Jan 10 j 11:15	9°  32'59	minimum elong	424 Dec 18 j 21:23	29°  12'08 2°51'01	
direct	424 Jan 17 j 01:04	6°  41'47	min. Earth dist.	424 Dec 20 j 01:08	27°  14'34 0.66593 AU	
morning max el	424 Jan 30 j 01:47	14°  20'12 26°44'06	morning rise	424 Dec 24 j 06:21	22°  15'58'21	
desc. node	424 Jan 31 j 21:49	16°  14'56	direct	424 Dec 30 j 07:34	20°  17'04	
	424 Feb 11 j 20:51	0°  ∞	morning max el	425 Jan 11 j 10:56	27°  18'30'11 25°33'00	
	424 Mar 01 j 13:55	0°  ∞		425 Jan 13 j 19:35	0°  ∞	
morning set	424 Mar 05 j 23:50	8°  10'47	desc. node	425 Jan 17 j 18:51	4°  13'39'05	
max. Earth dist.	424 Mar 10 j 07:23	16°  13'6'00 1.34534 AU		425 Feb 04 j 13:09	0°  ∞	
			morning set	425 Feb 16 j 17:20	20°  16'44'42	
superior conj	424 Mar 14 j 13:19	25°  15'17 -0°59'19	max. Earth dist.	425 Feb 20 j 11:42	27°  16'44'12 1.36150 AU	
minimum elong	424 Mar 14 j 16:10	25°  13'0'05 0°58'48		425 Feb 21 j 16:12	0°  ∞	
	424 Mar 16 j 19:55	0°  ∞				
asc. node	424 Mar 20 j 12:32	7°  14'45'21	superior conj	425 Feb 26 j 05:44	8°  15'56'34 -1°24'29	
evening rise	424 Mar 22 j 02:15	11°  11'01'59	minimum elong	425 Feb 26 j 09:31	9°  16'15'28 1°23'56	
	424 Apr 01 j 01:49	0°  ∞	evening rise	425 Mar 06 j 07:36	25°  16'11'19	
evening max el	424 Apr 10 j 14:14	12°  13'32'58 21°09'15	asc. node	425 Mar 07 j 09:35	27°  13'32'35	
retrograde	424 Apr 22 j 09:32	18°  17'09		425 Mar 08 j 15:05	0°  ∞	
evening set	424 Apr 24 j 16:15	18°  15'05'03	evening max el	425 Mar 23 j 23:49	23°  15'58'37 19°54'50	
desc. node	424 Apr 28 j 20:58	16°  14'46'31	retrograde	425 Apr 03 j 01:54	28°  15'49'24	
inferior conj	424 May 04 j 00:44	14°  15'05'59 -1°28'33	evening set	425 Apr 05 j 03:54	28°  15'37'54	
minimum elong	424 May 03 j 20:35	14°  11'51 1°27'04	inferior conj	425 Apr 13 j 23:47	24°  13'37'24 0°30'07	
min. Earth dist.	424 May 04 j 12:49	13°  14'48'57 0.54971 AU	minimum elong	425 Apr 14 j 01:07	24°  13'35'22 0°29'38	
morning rise	424 May 13 j 01:01	10°  13'03'39	desc. node	425 Apr 15 j 18:01	23°  13'32'48	
direct	424 May 16 j 06:49	9°  14'40'55	min. Earth dist.	425 Apr 16 j 03:01	23°  13'19'14 0.55545 AU	
morning max el	424 May 29 j 02:13	15°  14'47'17 22°28'33	morning rise	425 Apr 22 j 20:04	20°  13'07'47	
	424 Jun 09 j 03:27	0°  ∞	direct	425 Apr 26 j 22:12	19°  13'30'51	
asc. node	424 Jun 16 j 11:48	13°  12'19'28	morning max el	425 May 10 j 18:31	26°  13'24'00 24°09'35	
morning set	424 Jun 20 j 00:02	20°  12'29'18		425 May 14 j 05:04	0°  ∞	
	424 Jun 24 j 11:43	0°  ∞		425 Jun 01 j 20:34	0°  ∞	
			asc. node	425 Jun 03 j 08:51	3°  12'06'08	
superior conj	424 Jun 27 j 04:29	5°  12'44'31 1°32'03	morning set	425 Jun 04 j 11:53	5°  12'27'26	
minimum elong	424 Jun 27 j 02:13	5°  12'32'29 1°31'50				
max. Earth dist.	424 Jun 30 j 06:18	12°  12'11'02 1.34254 AU	superior conj	425 Jun 11 j 12:31	20°  12'35'19 1°16'37	
evening rise	424 Jul 05 j 01:37	21°  12'51'40	minimum elong	425 Jun 11 j 10:02	20°  12'21'57 1°16'16	
	424 Jul 09 j 08:26	0°  ∞	max. Earth dist.	425 Jun 13 j 09:03	24°  12'35'06 1.33224 AU	
desc. node	424 Jul 25 j 20:16	26°  12'53'11		425 Jun 15 j 22:23	0°  ∞	
	424 Jul 28 j 02:06	0°  ∞	evening rise	425 Jun 18 j 21:23	6°  12'05'27	
evening max el	424 Aug 08 j 18:36	13°  12'43'39 27°08'51		425 Jul 01 j 22:21	0°  ∞	
retrograde	424 Aug 22 j 02:24	21°  12'02'41	desc. node	425 Jul 12 j 17:18	15°  12'59'26	
evening set	424 Aug 29 j 01:08	18°  12'17'10	evening max el	425 Jul 22 j 05:16	26°  12'51'54 27°25'36	
min. Earth dist.	424 Sep 01 j 20:55	14°  12'34'54 0.65049 AU		425 Jul 25 j 20:37	0°  ∞	
inferior conj	424 Sep 03 j 23:12	12°  12'13'57 -2°43'36	retrograde	425 Aug 04 j 21:24	4°  12'11'16	
minimum elong	424 Sep 04 j 03:18	12°  12'02'26 2°42'10	evening set	425 Aug 12 j 02:01	1°  12'32'35	
morning rise	424 Sep 10 j 06:13	6°  12'40'25		425 Aug 13 j 23:38	30°  R 	
asc. node	424 Sep 12 j 11:02	6°  12'02'05	min. Earth dist.	425 Aug 15 j 16:53	28°  12'23'14 0.63506 AU	
direct	424 Sep 12 j 23:43	6°  12'00'35	inferior conj	425 Aug 18 j 08:07	25°  12'43'10 -3°35'09	
morning max el	424 Sep 19 j 12:16	9°  12'31'16 18°08'40	minimum elong	425 Aug 18 j 12:59	25°  12'30'48 3°33'48	
	424 Oct 03 j 13:11	0°  ∞	morning rise	425 Aug 25 j 01:05	20°  12'26'33	
morning set	424 Oct 07 j 17:46	6°  12'57'30	direct	425 Aug 27 j 14:06	19°  12'55'13	
			asc. node	425 Aug 30 j 08:05	20°  12'32'25	
superior conj	424 Oct 21 j 23:16	0°  12'07'11 -0°01'01	morning max el	425 Sep 03 j 04:09	23°  12'20'54 17°53'40	
minimum elong	424 Oct 21 j 23:09	0°  12'06'42 0°01'00		425 Sep 08 j 10:28	0°  ∞	
behind sun begin	424 Oct 21 j 12:21	29°  12'23'40	morning set	425 Sep 19 j 19:52	19°  12'02'45	
behind sun end	424 Oct 22 j 09:57	0°  12'49'41		425 Sep 26 j 04:08	0°  ∞	
desc. node	424 Oct 21 j 19:35	29°  12'52'29				
	424 Oct 21 j 21:28	0°  ∞	superior conj	425 Oct 02 j 00:42	9°  12'50'05 0°43'32	
max. Earth dist.	424 Oct 25 j 11:10	5°  12'39'28 1.44856 AU	minimum elong	425 Oct 02 j 04:56	10°  12'07'31 0°43'00	
evening rise	424 Nov 07 j 10:42	25°  12'55'35	max. Earth dist.	425 Oct 08 j 03:44	19°  12'48'06 1.43971 AU	
	424 Nov 10 j 01:49	0°  ∞	desc. node	425 Oct 08 j 16:38	20°  12'53'43	
greatest brilliancy	424 Nov 20 j 08:40	15° 12'14'44'56 -0.7m		425 Oct 14 j 14:39	0° ∞	
	424 Nov 30 j 16:09	0° ∞	evening rise	425 Oct 17 j 18:31	4° 12'11'54'12	
evening max el	424 Dec 02 j 12:55	2° 12'03'44 19°44'21		425 Nov 03 j 12:38	0° ∞	
asc. node	424 Dec 09 j 10:18	6° 12'21'42	evening max el	425 Nov 15 j 14:19	15° 12'17'32'39 20°47'24	

retrograde	425 Nov 23 j 20:56	20°♄26'28		retrograde	426 Nov 07 j 17:14	4°♄34'36	
asc. node	425 Nov 26 j 07:21	19°♄52'58		evening set	426 Nov 12 j 02:58	2°♄49'27	
evening set	425 Nov 27 j 19:14	18°♄58'09		asc. node	426 Nov 13 j 04:23	1°♄52'20	
inferior conj	425 Dec 03 j 04:36	12°♄48'03	2°12'08		426 Nov 14 j 20:42	30°♄	
minimum elong	425 Dec 03 j 02:04	12°♄56'42	2°11'16	inferior conj	426 Nov 17 j 11:20	26°♄31'39	1°26'07
min. Earth dist.	425 Dec 03 j 17:08	12°♄05'13	0.67304 AU	minimum elong	426 Nov 17 j 09:29	26°♄38'04	1°25'24
morning rise	425 Dec 08 j 08:43	6°♄34'35		min. Earth dist.	426 Nov 17 j 12:38	26°♄27'08	0.67658 AU
direct	425 Dec 13 j 19:15	4°♄11'18		morning rise	426 Nov 22 j 15:50	20°♄19'30	
morning max el	425 Dec 24 j 19:15	10°♄45'05	24°08'27	direct	426 Nov 27 j 11:14	18°♄18'19	
desc. node	426 Jan 04 j 15:54	23°♄49'00		morning max el	426 Dec 07 j 05:25	24°♄05'13	22°40'33
	426 Jan 09 j 02:59	0°♄			426 Dec 12 j 11:01	0°♄	
	426 Jan 28 j 06:55	0°♄		desc. node	426 Dec 22 j 12:57	13°♄31'54	
morning set	426 Jan 29 j 13:29	2°♄11'25			427 Jan 02 j 13:47	0°♄	
max. Earth dist.	426 Feb 02 j 07:34	8°♄47'54	1.38135 AU	morning set	427 Jan 10 j 06:20	12°♄16'42	
				max. Earth dist.	427 Jan 15 j 03:33	20°♄27'10	1.40273 AU
					427 Jan 20 j 14:59	0°♄	
superior conj	426 Feb 09 j 10:19	21°♄58'25	-1°45'36				
minimum elong	426 Feb 09 j 14:09	22°♄16'45	1°45'15	superior conj	427 Jan 22 j 22:35	4°♄09'55	-1°59'28
	426 Feb 13 j 13:44	0°♄		minimum elong	427 Jan 23 j 00:51	4°♄20'15	1°59'24
evening rise	426 Feb 18 j 06:22	9°♄14'58		evening rise	427 Feb 01 j 19:33	22°♄36'07	
asc. node	426 Feb 22 j 06:39	17°♄01'46			427 Feb 05 j 18:05	0°♄	
	426 Mar 01 j 21:08	0°♄		asc. node	427 Feb 09 j 03:43	6°♄06'51	
evening max el	426 Mar 06 j 20:16	6°♄02'09	18°59'23	evening max el	427 Feb 18 j 01:05	18°♄37'39	18°23'54
retrograde	426 Mar 15 j 08:16	10°♄08'26		retrograde	427 Feb 25 j 09:46	22°♄15'45	
evening set	426 Mar 17 j 14:15	9°♄52'23		evening set	427 Feb 27 j 21:10	21°♄52'16	
inferior conj	426 Mar 25 j 15:17	5°♄37'20	2°08'01	inferior conj	427 Mar 07 j 03:52	17°♄16'50	3°11'24
minimum elong	426 Mar 25 j 19:27	5°♄30'00	2°06'48	minimum elong	427 Mar 07 j 07:29	17°♄09'23	3°10'44
min. Earth dist.	426 Mar 28 j 18:54	3°♄25'15	0.56957 AU	min. Earth dist.	427 Mar 10 j 14:20	14°♄28'29	0.58897 AU
morning rise	426 Apr 02 j 21:37	0°♄34'41		morning rise	427 Mar 14 j 15:17	11°♄46'19	
desc. node	426 Apr 02 j 15:04	0°♄41'27		direct	427 Mar 20 j 19:57	10°♄05'28	
	426 Apr 04 j 14:07	30°♄		desc. node	427 Mar 20 j 12:07	10°♄05'45	
direct	426 Apr 08 j 02:33	29°♄30'18		morning max el	427 Apr 04 j 04:04	17°♄46'32	26°59'06
	426 Apr 11 j 15:21	0°♄			427 Apr 14 j 08:13	0°♄	
morning max el	426 Apr 22 j 09:15	6°♄54'15	25°44'52		427 May 01 j 20:03	0°♄	
	426 May 09 j 09:14	0°♄		morning set	427 May 04 j 09:24	5°♄15'00	
morning set	426 May 19 j 23:32	20°♄24'28		asc. node	427 May 08 j 02:58	13°♄12'53	
asc. node	426 May 21 j 05:54	23°♄05'32					
	426 May 24 j 10:30	0°♄		superior conj	427 May 11 j 11:04	20°♄31'13	0°34'42
superior conj	426 May 26 j 23:18	5°♄32'55	0°57'14	minimum elong	427 May 11 j 09:36	20°♄23'06	0°34'23
minimum elong	426 May 26 j 21:08	5°♄20'59	0°56'50	max. Earth dist.	427 May 11 j 07:06	20°♄09'21	1.32311 AU
max. Earth dist.	426 May 27 j 18:29	7°♄17'47	1.32584 AU		427 May 15 j 19:08	0°♄	
evening rise	426 Jun 03 j 00:40	20°♄40'50		evening rise	427 May 18 j 08:51	5°♄29'18	
	426 Jun 07 j 16:20	0°♄			427 May 31 j 08:53	0°♄	
	426 Jun 26 j 04:23	0°♄		desc. node	427 Jun 16 j 11:22	21°♄13'14	
desc. node	426 Jun 29 j 14:21	4°♄13'20		evening max el	427 Jun 16 j 13:09	21°♄17'28	26°22'41
evening max el	426 Jul 04 j 12:18	9°♄26'42	27°10'40	retrograde	427 Jun 30 j 13:11	28°♄30'33	
retrograde	426 Jul 18 j 09:28	16°♄43'01		evening set	427 Jul 07 j 01:29	26°♄44'54	
evening set	426 Jul 25 j 11:41	14°♄24'41		min. Earth dist.	427 Jul 11 j 02:09	24°♄07'50	0.59605 AU
min. Earth dist.	426 Jul 29 j 02:30	11°♄39'02	0.61648 AU	inferior conj	427 Jul 14 j 10:09	21°♄31'57	-4°44'25
inferior conj	426 Aug 01 j 04:57	8°♄52'17	-4°17'57	minimum elong	427 Jul 14 j 12:14	21°♄27'52	4°44'17
minimum elong	426 Aug 01 j 09:25	8°♄42'15	4°17'08	morning rise	427 Jul 22 j 01:02	16°♄57'56	
morning rise	426 Aug 08 j 08:40	3°♄55'44		direct	427 Jul 24 j 12:41	16°♄35'58	
direct	426 Aug 10 j 19:52	3°♄30'03		morning max el	427 Aug 01 j 04:34	20°♄17'36	18°20'17
asc. node	426 Aug 17 j 05:07	6°♄27'14		asc. node	427 Aug 04 j 02:10	23°♄31'47	
morning max el	426 Aug 17 j 18:35	6°♄58'56	17°57'10		427 Aug 08 j 12:17	0°♄	
	426 Sep 01 j 14:15	0°♄		morning set	427 Aug 17 j 04:53	15°♄45'19	
morning set	426 Sep 02 j 17:24	2°♄03'50			427 Aug 24 j 17:34	0°♄	
				superior conj	427 Aug 26 j 10:40	3°♄09'35	1°36'46
superior conj	426 Sep 13 j 05:29	20°♄53'39	1°16'32	minimum elong	427 Aug 26 j 13:46	3°♄23'44	1°36'32
minimum elong	426 Sep 13 j 10:13	21°♄14'13	1°16'00	max. Earth dist.	427 Sep 02 j 23:21	16°♄31'05	1.40615 AU
	426 Sep 18 j 13:39	0°♄		evening rise	427 Sep 07 j 14:18	24°♄17'30	
max. Earth dist.	426 Sep 20 j 16:11	3°♄29'43	1.42493 AU		427 Sep 11 j 02:41	0°♄	
desc. node	426 Sep 25 j 13:41	11°♄25'55		desc. node	427 Sep 12 j 10:42	2°♄07'19	
evening rise	426 Sep 27 j 06:47	14°♄08'57			427 Oct 01 j 12:10	0°♄	
	426 Oct 07 j 15:05	0°♄		evening max el	427 Oct 12 j 00:59	12°♄34'24	23°20'33
evening max el	426 Oct 29 j 10:05	29°♄02'51	22°01'04	retrograde	427 Oct 22 j 10:47	18°♄43'57	
	426 Oct 30 j 09:16	0°♄					

evening set	427 Oct 27 j 09:43	16° \mathbb{M} 40'56		428 Sep 03 j 03:26	0° $\underline{\mathbf{a}}$	
asc. node	427 Oct 31 j 01:25	12° \mathbb{M} 38'05		evening max el	428 Sep 23 j 13:05	26° $\underline{\mathbf{a}}$ 09'09 24°39'36
inferior conj	427 Nov 01 j 18:29	10° \mathbb{M} 19'02	0°35'15		428 Sep 27 j 23:23	0° \mathbb{M}
minimum elong	427 Nov 01 j 17:40	10° \mathbb{M} 21'52	0°34'54	retrograde	428 Oct 05 j 00:36	2° \mathbb{M} 51'11
min. Earth dist.	427 Nov 01 j 09:13	10° \mathbb{M} 50'48	0.67679 AU	evening set	428 Oct 10 j 13:49	0° \mathbb{M} 30'52
morning rise	427 Nov 07 j 01:33	4° \mathbb{M} 10'25			428 Oct 11 j 03:31	30° \mathbb{R} $\underline{\mathbf{a}}$
direct	427 Nov 11 j 06:32	2° \mathbb{M} 31'57		min. Earth dist.	428 Oct 15 j 04:38	25° $\underline{\mathbf{a}}$ 14'31 0.67379 AU
morning max el	427 Nov 19 j 21:01	7° \mathbb{M} 33'35	21°17'34	inferior conj	428 Oct 16 j 00:22	24° $\underline{\mathbf{a}}$ 08'50 -0°19'04
	427 Dec 06 j 23:01	0° \mathbb{X}		minimum elong	428 Oct 16 j 00:50	24° $\underline{\mathbf{a}}$ 07'15 0°18'52
desc. node	427 Dec 09 j 09:58	3° \mathbb{X} 37'53		asc. node	428 Oct 16 j 22:26	22° $\underline{\mathbf{a}}$ 55'54
morning set	427 Dec 20 j 18:39	21° \mathbb{X} 01'54		morning rise	428 Oct 21 j 11:56	18° $\underline{\mathbf{a}}$ 06'06
	427 Dec 26 j 09:20	0° \mathbb{Z}		direct	428 Oct 25 j 04:07	16° $\underline{\mathbf{a}}$ 48'27
max. Earth dist.	427 Dec 28 j 05:41	3° \mathbb{Z} 01'00	1.42265 AU	morning max el	428 Nov 01 j 20:06	21° $\underline{\mathbf{a}}$ 12'29 20°05'18
					428 Nov 09 j 01:07	0° \mathbb{M}
superior conj	428 Jan 04 j 13:02	15° \mathbb{Z} 17'05	-2°01'52	desc. node	428 Nov 25 j 07:00	24° \mathbb{M} 00'33
minimum elong	428 Jan 04 j 11:32	15° \mathbb{Z} 10'37	2°01'50	morning set	428 Nov 28 j 15:13	29° \mathbb{M} 09'22
	428 Jan 12 j 21:29	0° \approx			428 Nov 29 j 04:19	0° \mathbb{X}
evening rise	428 Jan 15 j 19:27	5° \approx 16'00		max. Earth dist.	428 Dec 09 j 15:01	16° \mathbb{X} 24'48 1.43839 AU
asc. node	428 Jan 27 j 00:44	24° \approx 39'32				
	428 Jan 30 j 23:28	0° \mathbb{X}		superior conj	428 Dec 15 j 01:16	25° \mathbb{X} 11'06 -1°48'06
evening max el	428 Feb 01 j 11:08	1° \mathbb{X} 36'03	18°08'22	minimum elong	428 Dec 14 j 18:47	24° \mathbb{X} 44'37 1°47'39
retrograde	428 Feb 08 j 04:14	5° \mathbb{X} 01'52			428 Dec 17 j 23:28	0° \mathbb{Z}
evening set	428 Feb 10 j 20:24	4° \mathbb{X} 29'31		evening rise	428 Dec 28 j 01:50	17° \mathbb{Z} 06'27
	428 Feb 17 j 00:40	30° \mathbb{R} \approx			429 Jan 04 j 14:26	0° \approx
inferior conj	428 Feb 17 j 12:04	29° \approx 32'56	3°42'26	asc. node	429 Jan 12 j 21:46	12° \approx 30'16
minimum elong	428 Feb 17 j 13:36	29° \approx 29'16	3°42'20	evening max el	429 Jan 14 j 23:30	14° \approx 49'55 18°12'14
min. Earth dist.	428 Feb 20 j 16:21	26° \approx 32'26	0.61007 AU	retrograde	429 Jan 21 j 11:08	18° \approx 17'01
morning rise	428 Feb 24 j 05:10	23° \approx 43'35		evening set	429 Jan 24 j 07:53	17° \approx 34'48
direct	428 Mar 02 j 00:29	21° \approx 27'06		inferior conj	429 Jan 30 j 12:10	12° \approx 18'09 3°48'27
desc. node	428 Mar 06 j 09:09	22° \approx 18'31		minimum elong	429 Jan 30 j 11:38	12° \approx 19'35 3°48'26
morning max el	428 Mar 16 j 05:18	29° \approx 17'42	27°40'49	min. Earth dist.	429 Feb 02 j 03:22	9° \approx 28'38 0.63003 AU
	428 Mar 16 j 22:10	0° \mathbb{X}		morning rise	429 Feb 05 j 14:27	6° \approx 17'36
	428 Apr 07 j 05:19	0° \mathbb{Y}		direct	429 Feb 12 j 14:08	3° \approx 35'47
morning set	428 Apr 17 j 15:36	19° \mathbb{Y} 52'29		desc. node	429 Feb 21 j 06:11	6° \approx 58'13
	428 Apr 22 j 10:31	0° \mathbb{Z}		morning max el	429 Feb 26 j 11:50	11° \approx 29'18 27°45'20
max. Earth dist.	428 Apr 23 j 18:56	2° \mathbb{Z} 55'55	1.32402 AU		429 Mar 13 j 03:30	0° \mathbb{X}
asc. node	428 Apr 24 j 00:01	3° \mathbb{Z} 23'37			429 Mar 30 j 13:40	0° \mathbb{Y}
				morning set	429 Apr 01 j 15:54	4° \mathbb{Y} 09'03
superior conj	428 Apr 24 j 22:08	5° \mathbb{Z} 24'22	0°09'45	max. Earth dist.	429 Apr 07 j 01:57	15° \mathbb{Y} 23'07 1.32885 AU
minimum elong	428 Apr 24 j 21:41	5° \mathbb{Z} 21'56	0°09'39			
behind sun begin	428 Apr 24 j 17:39	4° \mathbb{Z} 59'49		superior conj	429 Apr 09 j 06:46	20° \mathbb{Y} 06'15 -0°16'48
behind sun end	428 Apr 25 j 01:44	5° \mathbb{Z} 44'03		minimum elong	429 Apr 09 j 07:34	20° \mathbb{Y} 10'35 0°16'37
evening rise	428 May 01 j 19:48	20° \mathbb{Z} 23'14		asc. node	429 Apr 10 j 21:03	23° \mathbb{Y} 33'15
	428 May 06 j 12:31	0° \mathbb{I}			429 Apr 13 j 20:32	0° \mathbb{Z}
	428 May 25 j 22:53	0° \mathbb{a}		evening rise	429 Apr 16 j 07:37	5° \mathbb{Z} 15'41
evening max el	428 May 28 j 07:00	2° \mathbb{a} 23'27	25°06'38		429 Apr 29 j 14:15	0° \mathbb{I}
desc. node	428 Jun 02 j 08:23	6° \mathbb{a} 29'31		evening max el	429 May 09 j 21:17	13° \mathbb{I} 00'19 23°33'57
retrograde	428 Jun 11 j 07:08	9° \mathbb{a} 31'09		desc. node	429 May 20 j 05:24	19° \mathbb{I} 25'19
evening set	428 Jun 16 j 16:15	8° \mathbb{a} 24'26		retrograde	429 May 23 j 13:05	19° \mathbb{I} 50'24
min. Earth dist.	428 Jun 21 j 18:36	5° \mathbb{a} 37'43	0.57605 AU	evening set	429 May 27 j 10:53	19° \mathbb{I} 16'46
inferior conj	428 Jun 24 j 20:25	3° \mathbb{a} 33'00	-4°43'20	min. Earth dist.	429 Jun 03 j 07:46	16° \mathbb{I} 05'40 0.55982 AU
minimum elong	428 Jun 24 j 18:02	3° \mathbb{a} 37'03	4°43'11	inferior conj	429 Jun 05 j 10:32	14° \mathbb{I} 49'41 -4°01'43
	428 Jun 30 j 23:30	30° \mathbb{R} \mathbb{I}		minimum elong	429 Jun 05 j 03:50	14° \mathbb{I} 59'45 4°00'21
morning rise	428 Jul 02 j 22:32	29° \mathbb{I} 21'08		morning rise	429 Jun 13 j 23:35	10° \mathbb{I} 53'15
direct	428 Jul 05 j 12:08	29° \mathbb{I} 01'43		direct	429 Jun 16 j 16:09	10° \mathbb{I} 35'13
	428 Jul 09 j 19:15	0° \mathbb{a}		morning max el	429 Jun 26 j 23:36	15° \mathbb{I} 21'26 20°08'55
morning max el	428 Jul 14 j 07:08	3° \mathbb{a} 08'28	19°04'05	asc. node	429 Jul 07 j 20:16	0° \mathbb{a} 13'04
asc. node	428 Jul 20 j 23:13	11° \mathbb{a} 31'33			429 Jul 07 j 17:17	0° \mathbb{a}
morning set	428 Jul 31 j 02:17	29° \mathbb{a} 56'43		morning set	429 Jul 15 j 06:29	14° \mathbb{a} 29'04
	428 Jul 31 j 02:57	0° \mathbb{Q}			429 Jul 22 j 20:56	0° \mathbb{Q}
superior conj	428 Aug 08 j 10:41	16° \mathbb{Q} 22'36	1°45'50	superior conj	429 Jul 23 j 00:15	0° \mathbb{Q} 16'40 1°45'52
minimum elong	428 Aug 08 j 11:40	16° \mathbb{Q} 27'21	1°45'48	minimum elong	429 Jul 22 j 23:29	0° \mathbb{Q} 12'51 1°45'51
max. Earth dist.	428 Aug 15 j 02:37	28° \mathbb{Q} 49'17	1.38588 AU	max. Earth dist.	429 Jul 28 j 07:23	10° \mathbb{Q} 40'44 1.36667 AU
	428 Aug 15 j 18:20	0° \mathbb{P}		evening rise	429 Aug 01 j 05:25	17° \mathbb{Q} 59'53
evening rise	428 Aug 18 j 22:34	5° \mathbb{P} 36'08			429 Aug 08 j 01:51	0° \mathbb{P}
desc. node	428 Aug 29 j 07:43	22° \mathbb{P} 40'12		desc. node	429 Aug 16 j 04:43	12° \mathbb{P} 58'58

	429 Aug 28 j 09:13	0°♄		evening max el	430 Aug 19 j 12:44	23°♄21'24	26°46'46
evening max el	429 Sep 06 j 00:38	9°♄46'31	25°50'57		430 Aug 29 j 03:33	0°♄	
retrograde	429 Sep 18 j 09:51	16°♄50'51		retrograde	430 Sep 01 j 13:48	0°♄36'56	
evening set	429 Sep 24 j 13:26	14°♄16'04			430 Sep 04 j 19:14	30°♄	
min. Earth dist.	429 Sep 28 j 20:26	9°♄35'25	0.66749 AU	evening set	430 Sep 08 j 06:26	27°♄53'12	
inferior conj	429 Sep 30 j 03:11	7°♄58'05	-1°15'21	min. Earth dist.	430 Sep 12 j 06:12	23°♄49'35	0.65776 AU
minimum elong	429 Sep 30 j 05:06	7°♄51'59	1°14'33	inferior conj	430 Sep 14 j 00:57	21°♄43'34	-2°11'52
asc. node	429 Oct 03 j 19:29	3°♄42'55		minimum elong	430 Sep 14 j 04:19	21°♄33'36	2°10'35
morning rise	429 Oct 05 j 21:03	2°♄04'03		morning rise	430 Sep 20 j 02:44	16°♄01'21	
direct	429 Oct 09 j 02:35	1°♄03'55		asc. node	430 Sep 20 j 16:33	15°♄44'48	
morning max el	429 Oct 16 j 02:33	4°♄59'58	19°07'13	direct	430 Sep 22 j 23:59	15°♄15'02	
	429 Nov 02 j 20:06	0°♄		morning max el	430 Sep 29 j 14:41	18°♄52'24	18°25'08
morning set	429 Nov 07 j 20:45	7°♄50'52			430 Oct 08 j 00:00	0°♄	
desc. node	429 Nov 12 j 04:01	14°♄34'43		morning set	430 Oct 19 j 04:37	17°♄53'07	
	429 Nov 21 j 23:58	0°♄			430 Oct 26 j 17:29	0°♄	
max. Earth dist.	429 Nov 22 j 06:16	0°♄24'50	1.44802 AU	desc. node	430 Oct 30 j 01:02	5°♄16'18	
superior conj	429 Nov 24 j 12:48	4°♄00'06	-1°15'46	superior conj	430 Nov 03 j 13:21	12°♄24'04	-0°29'28
minimum elong	429 Nov 24 j 04:30	3°♄27'17	1°14'52	minimum elong	430 Nov 03 j 09:29	12°♄08'50	0°28'57
evening rise	429 Dec 09 j 10:29	28°♄00'11		max. Earth dist.	430 Nov 05 j 00:55	14°♄44'00	1.45052 AU
	429 Dec 10 j 15:42	0°♄			430 Nov 14 j 18:23	0°♄	
evening max el	429 Dec 29 j 11:32	28°♄13'09	18°34'40	evening rise	430 Nov 19 j 19:24	7°♄55'28	
asc. node	429 Dec 30 j 18:47	29°♄26'57		greatest brilliancy	430 Nov 30 j 00:50	23°♄57'58	-0.8m
	429 Dec 31 j 10:55	0°♄			430 Dec 03 j 23:52	0°♄	
retrograde	430 Jan 05 j 02:11	1°♄52'53		evening max el	430 Dec 12 j 20:47	11°♄40'05	19°14'26
evening set	430 Jan 08 j 04:11	0°♄59'40		asc. node	430 Dec 17 j 15:50	15°♄14'29	
	430 Jan 09 j 14:49	30°♄		retrograde	430 Dec 19 j 21:53	15°♄42'25	
inferior conj	430 Jan 14 j 00:11	25°♄24'46	3°36'18	evening set	430 Dec 23 j 06:25	14°♄36'46	
minimum elong	430 Jan 13 j 22:14	25°♄30'34	3°36'01	inferior conj	430 Dec 28 j 20:41	8°♄45'46	3°10'57
min. Earth dist.	430 Jan 16 j 00:02	23°♄02'57	0.64700 AU	minimum elong	430 Dec 28 j 18:02	8°♄54'15	3°10'21
morning rise	430 Jan 19 j 15:49	19°♄17'39		min. Earth dist.	430 Dec 30 j 05:33	7°♄00'49	0.66017 AU
direct	430 Jan 26 j 11:14	16°♄25'31		morning rise	431 Jan 03 j 05:24	2°♄34'48	
desc. node	430 Feb 08 j 03:14	23°♄28'47			431 Jan 07 j 17:49	30°♄	
morning max el	430 Feb 08 j 21:04	24°♄12'43	27°14'56	direct	431 Jan 09 j 14:25	29°♄46'28	
	430 Feb 14 j 02:42	0°♄			431 Jan 11 j 12:49	0°♄	
	430 Mar 06 j 12:15	0°♄		morning max el	431 Jan 22 j 06:32	7°♄15'14	26°16'12
morning set	430 Mar 16 j 07:28	17°♄55'36		desc. node	431 Jan 26 j 00:16	11°♄17'55	
max. Earth dist.	430 Mar 21 j 00:18	27°♄19'58	1.33800 AU		431 Feb 08 j 23:26	0°♄	
	430 Mar 22 j 07:19	0°♄			431 Feb 26 j 21:38	0°♄	
				morning set	431 Feb 27 j 10:22	0°♄59'21	
superior conj	430 Mar 24 j 11:05	4°♄30'49	-0°43'55	max. Earth dist.	431 Mar 03 j 11:16	8°♄42'39	1.35171 AU
minimum elong	430 Mar 24 j 13:13	4°♄42'05	0°43'29				
asc. node	430 Mar 28 j 18:06	13°♄37'56		superior conj	431 Mar 08 j 08:39	18°♄29'51	-1°10'19
evening rise	430 Mar 31 j 18:30	20°♄00'38		minimum elong	431 Mar 08 j 11:57	18°♄46'47	1°09'45
	430 Apr 05 j 16:57	0°♄			431 Mar 13 j 22:06	0°♄	
evening max el	430 Apr 21 j 14:58	23°♄37'47	21°59'26	asc. node	431 Mar 15 j 15:09	3°♄32'34	
retrograde	430 May 04 j 06:44	29°♄50'00		evening rise	431 Mar 16 j 02:29	4°♄30'52	
evening set	430 May 06 j 23:09	29°♄33'59			431 Mar 30 j 14:48	0°♄	
desc. node	430 May 07 j 02:25	29°♄32'21		evening max el	431 Apr 03 j 17:54	4°♄41'03	20°35'25
inferior conj	430 May 16 j 08:59	25°♄28'50	-2°34'21	retrograde	431 Apr 14 j 19:37	10°♄01'45	
minimum elong	430 May 16 j 02:20	25°♄38'11	2°32'14	evening set	431 Apr 16 j 22:57	9°♄50'36	
min. Earth dist.	430 May 15 j 20:21	25°♄46'34	0.55082 AU	desc. node	431 Apr 23 j 23:28	7°♄06'31	
morning rise	430 May 25 j 06:50	21°♄33'52		inferior conj	431 Apr 26 j 03:25	5°♄52'59	-0°37'26
direct	430 May 28 j 05:54	21°♄14'18		minimum elong	431 Apr 26 j 01:39	5°♄55'32	0°36'48
morning max el	430 Jun 09 j 04:46	26°♄50'47	21°33'09	min. Earth dist.	431 Apr 27 j 09:24	5°♄09'47	0.55109 AU
	430 Jun 12 j 05:36	0°♄		morning rise	431 May 05 j 03:24	1°♄41'03	
asc. node	430 Jun 24 j 17:21	19°♄26'09		direct	431 May 08 j 16:56	1°♄13'36	
morning set	430 Jun 29 j 15:08	29°♄15'57		morning max el	431 May 22 j 00:17	7°♄40'46	23°11'12
	430 Jun 29 j 23:38	0°♄			431 Jun 06 j 22:14	0°♄	
				asc. node	431 Jun 11 j 14:25	9°♄02'18	
superior conj	430 Jul 06 j 23:18	14°♄39'50	1°38'46	morning set	431 Jun 14 j 02:19	14°♄11'25	
minimum elong	430 Jul 06 j 21:24	14°♄29'57	1°38'38				
max. Earth dist.	430 Jul 10 j 19:42	22°♄33'40	1.35036 AU	superior conj	431 Jun 21 j 04:45	29°♄22'26	1°26'03
	430 Jul 14 j 14:13	0°♄		minimum elong	431 Jun 21 j 02:20	29°♄09'29	1°25'45
evening rise	430 Jul 15 j 06:08	1°♄16'22			431 Jun 21 j 11:47	0°♄	
	430 Aug 01 j 02:04	0°♄		max. Earth dist.	431 Jun 23 j 17:38	4°♄45'28	1.33775 AU
desc. node	430 Aug 03 j 01:44	2°♄57'02		evening rise	431 Jun 28 j 20:03	15°♄12'12	

	431 Jul 06 j 17:06	0°♎			432 Jun 12 j 00:05	0°♏	
desc. node	431 Jul 20 j 22:46	22°♎25'36			432 Jun 28 j 19:17	0°♎	
	431 Jul 26 j 19:30	0°♎		desc. node	432 Jul 06 j 19:50	11°♎11'40	
evening max el	431 Aug 02 j 00:31	6°♎43'13	27°19'36	evening max el	432 Jul 14 j 09:49	19°♎38'03	27°23'14
retrograde	431 Aug 15 j 12:02	14°♎02'03		retrograde	432 Jul 28 j 04:05	26°♎56'15	
evening set	431 Aug 22 j 14:10	11°♎18'08		evening set	432 Aug 04 j 09:07	24°♎24'12	
min. Earth dist.	431 Aug 26 j 07:37	7°♎50'34	0.64439 AU	min. Earth dist.	432 Aug 07 j 23:00	21°♎26'50	0.62751 AU
inferior conj	431 Aug 28 j 15:22	5°♎20'39	-3°06'12	inferior conj	432 Aug 10 j 19:33	18°♎41'57	-3°54'46
minimum elong	431 Aug 28 j 19:54	5°♎08'27	3°04'44	minimum elong	432 Aug 11 j 00:26	18°♎30'09	3°53'35
	431 Sep 03 j 21:09	30°♎♎		morning rise	432 Aug 17 j 17:03	13°♎33'47	
morning rise	431 Sep 04 j 02:29	29°♎53'48		direct	432 Aug 20 j 05:03	13°♎05'08	
direct	431 Sep 06 j 17:54	29°♎17'48		asc. node	432 Aug 24 j 10:40	14°♎29'07	
asc. node	431 Sep 07 j 13:37	29°♎21'19		morning max el	432 Aug 26 j 21:44	16°♎30'47	17°52'54
	431 Sep 09 j 14:36	0°♎			432 Sep 05 j 10:07	0°♎	
morning max el	431 Sep 13 j 06:03	2°♎45'04	18°00'06	morning set	432 Sep 12 j 03:53	11°♎49'27	
morning set	431 Sep 30 j 16:48	29°♎18'38			432 Sep 22 j 13:48	0°♎	
	431 Oct 01 j 02:35	0°♎					
superior conj	431 Oct 14 j 01:04	21°♎25'33	0°19'02	superior conj	432 Sep 23 j 14:07	1°♎42'51	0°59'07
minimum elong	431 Oct 14 j 03:16	21°♎34'25	0°18'45	minimum elong	432 Sep 23 j 18:57	2°♎03'13	0°58'31
desc. node	431 Oct 16 j 22:04	26°♎02'25		max. Earth dist.	432 Sep 30 j 11:01	13°♎03'51	1.43404 AU
max. Earth dist.	431 Oct 18 j 19:43	29°♎04'00	1.44565 AU	desc. node	432 Oct 02 j 19:06	16°♎49'22	
	431 Oct 19 j 09:51	0°♎		evening rise	432 Oct 08 j 16:24	26°♎05'43	
evening rise	431 Oct 30 j 08:57	17°♎06'20			432 Oct 11 j 05:05	0°♎	
	431 Nov 07 j 19:17	0°♎			432 Oct 31 j 19:36	0°♎	
greatest brilliancy	431 Nov 13 j 12:04	8°♎32'18	-0.6m	evening max el	432 Nov 08 j 00:14	8°♎37'00	21°17'36
evening max el	431 Nov 26 j 01:23	25°♎08'31	20°09'37	retrograde	432 Nov 16 j 16:55	13°♎47'05	
retrograde	431 Dec 03 j 19:32	29°♎41'44		asc. node	432 Nov 20 j 09:55	12°♎30'03	
asc. node	431 Dec 04 j 12:53	29°♎38'46		evening set	432 Nov 20 j 19:51	12°♎11'40	
evening set	431 Dec 07 j 12:18	28°♎22'03		inferior conj	432 Nov 26 j 04:35	5°♎57'33	1°53'17
inferior conj	431 Dec 12 j 22:55	22°♎17'48	2°35'50	minimum elong	432 Nov 26 j 02:17	6°♎05'26	1°52'27
minimum elong	431 Dec 12 j 20:12	22°♎26'56	2°35'01	min. Earth dist.	432 Nov 26 j 12:08	5°♎31'29	0.67496 AU
min. Earth dist.	431 Dec 13 j 18:21	21°♎12'34	0.66942 AU	morning rise	432 Dec 01 j 08:34	29°♎44'18	
morning rise	431 Dec 18 j 03:56	16°♎04'44			432 Dec 01 j 01:37	30°♎♎	
direct	431 Dec 23 j 23:01	13°♎30'38		direct	432 Dec 06 j 12:30	27°♎30'24	
morning max el	432 Jan 04 j 15:14	20°♎27'48	24°58'09		432 Dec 12 j 17:47	0°♎	
desc. node	432 Jan 12 j 21:19	0°♎03'03		morning max el	432 Dec 17 j 00:07	3°♎45'02	23°30'55
	432 Jan 12 j 20:22	0°♎		desc. node	432 Dec 29 j 18:21	19°♎27'53	
	432 Feb 02 j 04:00	0°♎			433 Jan 06 j 02:06	0°♎	
morning set	432 Feb 09 j 19:31	13°♎06'00		morning set	433 Jan 21 j 04:42	23°♎59'15	
max. Earth dist.	432 Feb 13 j 11:37	19°♎45'57	1.36965 AU	max. Earth dist.	433 Jan 24 j 16:44	0°♎	
	432 Feb 18 j 20:56	0°♎			433 Jan 25 j 06:35	1°♎00'30	1.39039 AU
superior conj	432 Feb 19 j 20:28	1°♎55'00	-1°34'05	superior conj	433 Feb 01 j 18:39	14°♎36'11	-1°52'36
minimum elong	432 Feb 20 j 00:25	2°♎14'24	1°33'36	minimum elong	433 Feb 01 j 22:04	14°♎52'12	1°52'22
evening rise	432 Feb 28 j 05:20	18°♎39'51			433 Feb 09 j 19:30	0°♎	
asc. node	432 Mar 01 j 12:12	23°♎12'29		evening rise	433 Feb 11 j 00:25	2°♎20'20	
	432 Mar 05 j 01:32	0°♎		asc. node	433 Feb 16 j 09:15	12°♎32'04	
evening max el	432 Mar 16 j 08:10	16°♎22'03	19°28'44	evening max el	433 Feb 27 j 08:28	28°♎39'44	18°41'51
retrograde	432 Mar 25 j 17:03	20°♎52'34			433 Feb 28 j 21:02	0°♎	
evening set	432 Mar 27 j 20:15	20°♎39'35		retrograde	433 Mar 07 j 07:40	2°♎32'23	
inferior conj	432 Apr 05 j 08:20	16°♎33'32	1°15'29	evening set	433 Mar 09 j 15:47	2°♎13'35	
minimum elong	432 Apr 05 j 11:20	16°♎28'40	1°14'29		433 Mar 14 j 07:59	30°♎♎	
min. Earth dist.	432 Apr 07 j 23:53	14°♎51'14	0.56060 AU	inferior conj	433 Mar 17 j 08:44	27°♎50'16	2°39'13
desc. node	432 Apr 09 j 20:31	13°♎44'17		minimum elong	433 Mar 17 j 12:58	27°♎42'15	2°38'10
morning rise	432 Apr 13 j 23:44	11°♎49'57		min. Earth dist.	433 Mar 20 j 17:12	25°♎19'51	0.57728 AU
direct	432 Apr 18 j 12:48	11°♎03'14		morning rise	433 Mar 25 j 07:11	22°♎34'16	
morning max el	432 May 02 j 15:11	18°♎10'51	24°51'51	desc. node	433 Mar 27 j 17:33	21°♎41'00	
	432 May 12 j 09:54	0°♎		direct	433 Mar 30 j 22:49	21°♎15'03	
asc. node	432 May 28 j 11:27	28°♎54'50		morning max el	433 Apr 14 j 07:23	28°♎48'27	26°19'57
morning set	432 May 28 j 14:16	29°♎09'37			433 Apr 15 j 12:00	0°♎	
	432 May 28 j 23:48	0°♎			433 May 05 j 23:30	0°♎	
superior conj	432 Jun 04 j 14:10	14°♎16'32	1°08'50	morning set	433 May 13 j 01:23	14°♎05'07	
minimum elong	432 Jun 04 j 11:46	14°♎03'27	1°08'26	asc. node	433 May 15 j 08:30	18°♎58'29	
max. Earth dist.	432 Jun 05 j 23:43	17°♎18'38	1.32905 AU	superior conj	433 May 20 j 01:36	29°♎15'40	0°48'02
evening rise	432 Jun 11 j 19:19	29°♎35'43		minimum elong	433 May 19 j 23:41	29°♎05'06	0°47'39
					433 May 20 j 09:41	0°♎	

max. Earth dist.	433 May 20 j 10:52	0° Π 06'30	1.32415 AU	evening rise	434 May 11 j 10:33	29° \mathcal{B} 09'12	
evening rise	433 May 27 j 00:59	14° Π 17'51			434 May 11 j 20:12	0° Π	
	433 Jun 04 j 00:56	0° \mathfrak{S}			434 May 28 j 12:05	0° \mathfrak{S}	
desc. node	433 Jun 23 j 16:51	28° \mathfrak{S} 57'35		evening max el	434 Jun 08 j 12:05	13° \mathfrak{S} 25'45	25°53'21
	433 Jun 24 j 16:17	0° Ω		desc. node	434 Jun 10 j 13:51	15° \mathfrak{S} 17'27	
evening max el	433 Jun 26 j 14:15	1° Ω 54'36	26°54'08	retrograde	434 Jun 22 j 13:10	20° \mathfrak{S} 37'21	
retrograde	433 Jul 10 j 13:06	9° Ω 10'30		evening set	434 Jun 28 j 15:08	19° \mathfrak{S} 08'25	
evening set	433 Jul 17 j 10:58	7° Ω 04'27		min. Earth dist.	434 Jul 03 j 00:39	16° \mathfrak{S} 29'03	0.58730 AU
min. Earth dist.	433 Jul 21 j 04:13	4° Ω 24'41	0.60791 AU	inferior conj	434 Jul 06 j 07:39	14° \mathfrak{S} 04'01	-4°48'08
inferior conj	433 Jul 24 j 10:11	1° Ω 39'46	-4°31'46	minimum elong	434 Jul 06 j 08:02	14° \mathfrak{S} 03'18	4°48'09
minimum elong	433 Jul 24 j 13:54	1° Ω 31'50	4°31'15	morning rise	434 Jul 14 j 03:18	9° \mathfrak{S} 39'28	
	433 Jul 26 j 10:30	30° \mathcal{R} \mathfrak{S}		direct	434 Jul 16 j 15:30	9° \mathfrak{S} 18'46	
morning rise	433 Jul 31 j 18:40	26° \mathfrak{S} 52'54		morning max el	434 Jul 24 j 17:53	13° \mathfrak{S} 09'56	18°36'15
direct	433 Aug 03 j 05:41	26° \mathfrak{S} 29'08		asc. node	434 Jul 29 j 04:45	18° \mathfrak{S} 25'06	
	433 Aug 10 j 09:49	0° Ω			434 Aug 05 j 05:26	0° Ω	
morning max el	433 Aug 10 j 10:44	0° Ω 02'11	18°04'31	morning set	434 Aug 10 j 00:03	9° Ω 04'07	
asc. node	433 Aug 11 j 07:42	0° Ω 55'37					
morning set	433 Aug 26 j 07:55	25° Ω 08'59		superior conj	434 Aug 18 j 19:47	26° Ω 00'48	1°41'50
	433 Aug 28 j 22:29	0° \mathcal{N}		minimum elong	434 Aug 18 j 21:59	26° Ω 11'03	1°41'43
					434 Aug 20 j 23:20	0° \mathcal{N}	
superior conj	433 Sep 05 j 05:56	13° \mathcal{N} 19'06	1°26'36	max. Earth dist.	434 Aug 26 j 01:24	9° \mathcal{N} 07'54	1.39760 AU
minimum elong	433 Sep 05 j 10:07	13° \mathcal{N} 37'40	1°26'12	evening rise	434 Aug 30 j 05:29	16° \mathcal{N} 17'37	
max. Earth dist.	433 Sep 12 j 20:36	26° \mathcal{N} 27'00	1.41729 AU	desc. node	434 Sep 06 j 13:10	28° \mathcal{N} 12'09	
	433 Sep 14 j 23:56	0° \mathfrak{L}			434 Sep 07 j 16:44	0° \mathfrak{L}	
evening rise	433 Sep 18 j 11:30	5° \mathfrak{L} 39'29			434 Sep 29 j 03:40	0° \mathcal{M}	
desc. node	433 Sep 19 j 16:09	7° \mathfrak{L} 33'51		evening max el	434 Oct 04 j 07:11	5° \mathcal{M} 40'14	23°54'43
	433 Oct 04 j 11:47	0° \mathcal{M}		retrograde	434 Oct 15 j 04:21	12° \mathcal{M} 04'21	
evening max el	433 Oct 21 j 17:37	22° \mathcal{M} 06'53	22°34'28	evening set	434 Oct 20 j 09:10	9° \mathcal{M} 54'07	
retrograde	433 Oct 31 j 12:18	27° \mathcal{M} 55'38		min. Earth dist.	434 Oct 25 j 04:57	4° \mathcal{M} 17'57	0.67592 AU
evening set	433 Nov 05 j 03:21	26° \mathcal{M} 03'06		asc. node	434 Oct 25 j 03:58	4° \mathcal{M} 21'17	
asc. node	433 Nov 07 j 06:57	23° \mathcal{M} 54'02		inferior conj	434 Oct 25 j 18:33	3° \mathcal{M} 31'47	0°12'35
inferior conj	433 Nov 10 j 11:42	19° \mathcal{M} 42'55	1°05'03	minimum elong	434 Oct 25 j 18:15	3° \mathcal{M} 32'49	0°12'26
minimum elong	433 Nov 10 j 10:15	19° \mathcal{M} 47'57	1°04'28	transit middle	434 Oct 25 j 18:15	3° \mathcal{M} 32'49	0°12'26
min. Earth dist.	433 Nov 10 j 08:30	19° \mathcal{M} 54'00	0.67706 AU	transit begin	434 Oct 25 j 16:29	3° \mathcal{M} 38'47	
morning rise	433 Nov 15 j 17:01	13° \mathcal{M} 31'41		transit end	434 Oct 25 j 20:00	3° \mathcal{M} 26'51	
direct	433 Nov 20 j 06:04	11° \mathcal{M} 40'15			434 Oct 28 j 12:02	30° \mathcal{R} \mathfrak{L}	
morning max el	433 Nov 29 j 12:09	17° \mathcal{M} 07'49	22°04'06	morning rise	434 Oct 31 j 03:17	27° \mathfrak{L} 25'09	
	433 Dec 10 j 00:38	0° \mathcal{X}		direct	434 Nov 04 j 02:40	25° \mathfrak{L} 55'39	
desc. node	433 Dec 16 j 15:23	9° \mathcal{X} 21'14			434 Nov 11 j 14:23	0° \mathcal{M}	
	433 Dec 30 j 04:50	0° \mathfrak{Z}		morning max el	434 Nov 12 j 06:41	0° \mathcal{M} 40'06	20°45'10
morning set	434 Jan 01 j 08:53	3° \mathfrak{Z} 28'00		desc. node	434 Dec 03 j 12:25	29° \mathcal{M} 35'07	
max. Earth dist.	434 Jan 07 j 04:00	12° \mathfrak{Z} 58'58	1.41151 AU		434 Dec 03 j 19:00	0° \mathcal{X}	
				morning set	434 Dec 11 j 11:56	11° \mathcal{X} 49'08	
superior conj	434 Jan 14 j 22:16	26° \mathfrak{Z} 21'21	-2°02'11	max. Earth dist.	434 Dec 20 j 09:15	25° \mathcal{X} 55'34	1.43002 AU
minimum elong	434 Jan 14 j 23:13	26° \mathfrak{Z} 25'33	2°02'11		434 Dec 22 j 21:11	0° \mathfrak{Z}	
	434 Jan 16 j 23:15	0° \mathfrak{A}					
evening rise	434 Jan 25 j 08:25	15° \mathfrak{A} 24'19		superior conj	434 Dec 27 j 02:02	6° \mathfrak{Z} 58'41	-1°58'15
	434 Feb 02 j 10:08	0° \mathcal{H}		minimum elong	434 Dec 26 j 22:23	6° \mathfrak{Z} 43'21	1°58'06
asc. node	434 Feb 03 j 06:17	1° \mathcal{H} 24'05		evening rise	435 Jan 08 j 01:24	27° \mathfrak{Z} 44'09	
evening max el	434 Feb 10 j 15:55	11° \mathcal{H} 25'52	18°14'58		435 Jan 09 j 08:02	0° \mathfrak{A}	
retrograde	434 Feb 17 j 16:37	14° \mathcal{H} 56'44		asc. node	435 Jan 21 j 03:18	19° \mathfrak{A} 40'22	
evening set	434 Feb 20 j 06:06	14° \mathcal{H} 29'40		evening max el	435 Jan 25 j 03:24	24° \mathfrak{A} 32'18	18°07'42
inferior conj	434 Feb 27 j 05:59	9° \mathcal{H} 45'35	3°28'08	retrograde	435 Jan 31 j 16:49	27° \mathfrak{A} 56'43	
minimum elong	434 Feb 27 j 08:47	9° \mathcal{H} 39'25	3°27'44	evening set	435 Feb 03 j 11:03	27° \mathfrak{A} 20'07	
min. Earth dist.	434 Mar 02 j 15:16	6° \mathcal{H} 48'40	0.59788 AU	inferior conj	435 Feb 09 j 21:27	22° \mathfrak{A} 14'52	3°47'35
morning rise	434 Mar 06 j 09:16	4° \mathcal{H} 05'59		minimum elong	435 Feb 09 j 22:03	22° \mathfrak{A} 13'22	3°47'34
direct	434 Mar 12 j 21:37	2° \mathcal{H} 08'47		min. Earth dist.	435 Feb 12 j 20:44	19° \mathfrak{A} 16'40	0.61890 AU
desc. node	434 Mar 14 j 14:35	2° \mathcal{H} 16'35		morning rise	435 Feb 16 j 07:47	16° \mathfrak{A} 20'22	
morning max el	434 Mar 27 j 04:42	9° \mathcal{H} 55'22	27°21'17	direct	435 Feb 23 j 06:21	13° \mathfrak{A} 51'24	
	434 Apr 11 j 16:11	0° \mathcal{Y}		desc. node	435 Mar 01 j 11:37	15° \mathfrak{A} 36'06	
morning set	434 Apr 27 j 09:54	28° \mathcal{Y} 50'29		morning max el	435 Mar 09 j 08:13	21° \mathfrak{A} 43'22	27°47'14
	434 Apr 27 j 23:13	0° \mathfrak{B}			435 Mar 16 j 14:16	0° \mathcal{H}	
asc. node	434 May 02 j 05:33	9° \mathfrak{B} 07'33			435 Apr 04 j 17:25	0° \mathcal{Y}	
max. Earth dist.	434 May 03 j 23:24	12° \mathfrak{B} 56'19	1.32297 AU	morning set	435 Apr 11 j 13:51	13° \mathcal{Y} 19'23	
				max. Earth dist.	435 Apr 17 j 09:38	25° \mathcal{Y} 35'41	1.32561 AU
superior conj	434 May 04 j 13:15	14° \mathfrak{B} 12'22	0°24'22				
minimum elong	434 May 04 j 12:11	14° \mathfrak{B} 06'29	0°24'09	superior conj	435 Apr 18 j 23:29	29° \mathcal{Y} 01'03	-0°01'23

minimum elong	435 Apr 18 j 23:33	29° Υ 01'25	0°01'22	morning set	436 Mar 25 j 10:49	27° X 23'56	
behind sun begin	435 Apr 18 j 18:27	28° Υ 33'37			436 Mar 26 j 18:00	0° Υ	
behind sun end	435 Apr 19 j 04:40	29° Υ 29'13		max. Earth dist.	436 Mar 30 j 13:36	7° Υ 51'40	1.33225 AU
asc. node	435 Apr 19 j 02:37	29° Υ 18'05					
	435 Apr 19 j 10:19	0° B		superior conj	436 Apr 02 j 06:32	13° Υ 35'52	-0°28'19
evening rise	435 Apr 25 j 22:06	14° B 03'04		minimum elong	436 Apr 02 j 07:54	13° Υ 43'12	0°28'00
	435 May 03 j 22:56	0° Π		asc. node	436 Apr 04 j 23:40	19° Υ 25'45	
evening max el	435 May 21 j 03:56	24° Π 16'27	24°28'23	evening rise	436 Apr 09 j 09:45	28° Υ 52'57	
desc. node	435 May 28 j 10:52	29° Π 38'08			436 Apr 09 j 22:31	0° B	
	435 May 29 j 05:36	0° C			436 Apr 27 j 10:01	0° Π	
retrograde	435 Jun 04 j 01:43	1° C 17'48		evening max el	436 May 01 j 18:38	4° Π 48'58	22°53'02
evening set	435 Jun 08 j 20:13	0° C 26'48		desc. node	436 May 14 j 07:53	11° Π 24'14	
	435 Jun 10 j 00:03	30° R Π		retrograde	436 May 15 j 01:55	11° Π 25'31	
min. Earth dist.	435 Jun 14 j 15:12	27° Π 31'16	0.56851 AU	evening set	436 May 18 j 09:57	11° Π 01'06	
inferior conj	435 Jun 17 j 09:12	25° Π 45'56	-4°31'18	min. Earth dist.	436 May 26 j 03:30	7° Π 36'23	0.55493 AU
minimum elong	435 Jun 17 j 04:44	25° Π 53'07	4°30'45	inferior conj	436 May 27 j 15:38	6° Π 44'21	-3°29'52
morning rise	435 Jun 25 j 16:00	21° Π 41'32		minimum elong	436 May 27 j 08:13	6° Π 55'03	3°27'57
direct	435 Jun 28 j 06:54	21° Π 22'45		morning rise	436 Jun 05 j 08:56	2° Π 51'06	
morning max el	435 Jul 07 j 16:15	25° Π 44'34	19°29'07	direct	436 Jun 08 j 03:46	2° Π 32'54	
	435 Jul 11 j 12:09	0° C		morning max el	436 Jun 19 j 03:54	7° Π 38'59	20°42'45
asc. node	435 Jul 16 j 01:48	6° C 43'38		asc. node	436 Jul 01 j 22:53	25° Π 39'43	
morning set	435 Jul 25 j 00:40	23° C 25'11			436 Jul 04 j 06:07	0° C	
	435 Jul 28 j 07:13	0° Ω		morning set	436 Jul 08 j 07:04	8° C 04'55	
superior conj	435 Aug 02 j 02:05	9° Ω 32'22	1°46'49	superior conj	436 Jul 15 j 20:11	23° C 40'34	1°43'38
minimum elong	435 Aug 02 j 02:16	9° Ω 33'15	1°46'50	minimum elong	436 Jul 15 j 18:51	23° C 33'50	1°43'35
max. Earth dist.	435 Aug 08 j 05:00	21° Ω 13'28	1.37749 AU		436 Jul 18 j 23:25	0° Ω	
evening rise	435 Aug 11 j 23:50	28° Ω 04'52		max. Earth dist.	436 Jul 20 j 12:41	3° Ω 03'40	1.35925 AU
	435 Aug 13 j 01:57	0° D		evening rise	436 Jul 24 j 14:54	10° Ω 52'43	
desc. node	435 Aug 24 j 10:11	18° D 39'40			436 Aug 04 j 14:51	0° D	
	435 Sep 01 j 02:27	0° E		desc. node	436 Aug 10 j 07:13	8° D 51'01	
evening max el	435 Sep 16 j 18:59	19° E 16'52	25°11'25		436 Aug 26 j 10:54	0° E	
retrograde	435 Sep 28 j 16:06	26° E 08'54		evening max el	436 Aug 29 j 06:41	2° E 54'10	26°16'59
evening set	435 Oct 04 j 11:35	23° E 42'00		retrograde	436 Sep 10 j 23:07	10° E 04'27	
min. Earth dist.	435 Oct 08 j 23:03	18° E 40'45	0.67156 AU	evening set	436 Sep 17 j 08:42	7° E 24'40	
inferior conj	435 Oct 09 j 23:20	17° E 21'28	-0°42'48	min. Earth dist.	436 Sep 21 j 12:27	3° E 00'04	0.66382 AU
minimum elong	435 Oct 10 j 00:25	17° E 17'57	0°42'20	inferior conj	436 Sep 23 j 00:17	1° E 09'51	-1°39'25
asc. node	435 Oct 12 j 01:01	14° E 44'23		minimum elong	436 Sep 23 j 02:50	1° E 01'59	1°38'23
morning rise	435 Oct 15 j 13:23	11° E 22'10			436 Sep 23 j 23:11	30° R D	
direct	435 Oct 19 j 00:53	10° E 12'16		asc. node	436 Sep 27 j 22:04	25° D 59'32	
morning max el	435 Oct 26 j 09:00	14° E 22'42	19°38'44	morning rise	436 Sep 28 j 21:22	25° D 20'45	
	435 Nov 07 j 05:46	0° M		direct	436 Oct 01 j 23:06	24° D 27'01	
greatest brilliancy	435 Nov 08 j 23:41	2° M 36'14	-0.7m	morning max el	436 Oct 08 j 18:16	28° D 13'44	18°47'21
morning set	435 Nov 20 j 09:17	20° M 02'33			436 Oct 10 j 09:23	0° E	
desc. node	435 Nov 20 j 09:25	20° M 03'04		morning set	436 Oct 30 j 00:58	29° E 16'18	
	435 Nov 26 j 18:56	0° X			436 Oct 30 j 12:01	0° M	
max. Earth dist.	435 Dec 02 j 22:00	9° X 39'02	1.44338 AU	desc. node	436 Nov 06 j 06:29	10° M 41'10	
				max. Earth dist.	436 Nov 14 j 15:20	23° M 50'30	1.45003 AU
superior conj	435 Dec 07 j 02:54	16° X 22'01	-1°36'35	superior conj	436 Nov 15 j 07:18	24° M 53'16	-0°57'14
minimum elong	435 Dec 06 j 18:56	15° X 49'59	1°35'53	minimum elong	436 Nov 15 j 00:13	24° M 25'28	0°56'22
	435 Dec 15 j 11:16	0° Z			436 Nov 18 j 13:12	0° X	
evening rise	435 Dec 20 j 22:58	9° Z 11'02		evening rise	436 Nov 30 j 21:36	19° X 39'59	
	436 Jan 02 j 14:30	0° \approx			436 Dec 07 j 07:39	0° Z	
asc. node	436 Jan 08 j 00:21	7° \approx 09'33		evening max el	436 Dec 22 j 02:58	21° Z 15'15	18°49'28
evening max el	436 Jan 08 j 15:56	7° \approx 50'30	18°19'31	asc. node	436 Dec 24 j 21:23	23° Z 38'33	
retrograde	436 Jan 15 j 03:47	11° \approx 21'36		retrograde	436 Dec 28 j 21:19	25° Z 03'51	
evening set	436 Jan 18 j 02:43	10° \approx 34'42		evening set	437 Jan 01 j 01:52	24° Z 05'34	
inferior conj	436 Jan 24 j 03:05	5° \approx 09'43	3°45'09	inferior conj	437 Jan 06 j 19:08	18° Z 23'14	3°26'53
minimum elong	436 Jan 24 j 01:52	5° \approx 13'11	3°45'03	minimum elong	437 Jan 06 j 16:48	18° Z 30'25	3°26'29
min. Earth dist.	436 Jan 26 j 11:41	2° \approx 30'48	0.63774 AU	min. Earth dist.	437 Jan 08 j 12:24	16° Z 16'28	0.65309 AU
	436 Jan 28 j 23:17	30° R Z		morning rise	437 Jan 12 j 07:22	12° Z 13'57	
morning rise	436 Jan 30 j 00:22	29° Z 06'02		direct	437 Jan 18 j 22:45	9° Z 22'04	
direct	436 Feb 05 j 23:05	26° Z 18'21		morning max el	437 Feb 01 j 02:10	17° Z 03'30	26°52'53
	436 Feb 14 j 22:46	0° \approx		desc. node	437 Feb 02 j 05:40	18° Z 14'12	
desc. node	436 Feb 16 j 08:38	1° \approx 06'59			437 Feb 11 j 21:45	0° \approx	
morning max el	436 Feb 19 j 16:18	4° \approx 09'40	27°36'23		437 Mar 02 j 23:57	0° X	
	436 Mar 10 j 03:22	0° X					

morning set	437 Mar 08 j 21:33	10° H 53'56		desc. node	438 Jan 20 j 02:44	6° Z 30'00	
max. Earth dist.	437 Mar 13 j 07:31	19° H 34'19	1.34327 AU		438 Feb 05 j 20:04	0° \approx	
				morning set	438 Feb 19 j 17:42	23° \approx 36'20	
superior conj	437 Mar 17 j 08:17	27° H 50'10	-0°55'19		438 Feb 23 j 03:53	0° H	
minimum elong	437 Mar 17 j 10:57	28° H 04'06	0°54'49	max. Earth dist.	438 Feb 23 j 13:21	0° H 45'09	1.35882 AU
	437 Mar 18 j 09:08	0° Y					
asc. node	437 Mar 22 j 20:43	9° Y 26'33		superior conj	438 Mar 01 j 02:09	11° H 36'33	-1°20'51
evening rise	437 Mar 24 j 19:40	13° Y 32'17		minimum elong	438 Mar 01 j 05:50	11° H 55'04	1°20'18
	437 Apr 02 j 07:13	0° Z		evening rise	438 Mar 09 j 01:47	27° H 54'42	
evening max el	437 Apr 13 j 15:34	15° Z 34'18	21°21'50	asc. node	438 Mar 09 j 17:46	29° H 15'53	
retrograde	437 Apr 25 j 16:43	21° Z 26'16			438 Mar 10 j 02:30	0° Y	
evening set	437 Apr 28 j 01:16	21° Z 13'32		evening max el	438 Mar 26 j 23:27	26° Y 54'10	20°04'46
desc. node	437 May 01 j 04:55	20° Z 20'07			438 Mar 30 j 22:47	0° Z	
inferior conj	437 May 07 j 10:36	17° Z 13'22	-1°46'28	retrograde	438 Apr 06 j 07:38	1° Z 52'19	
minimum elong	437 May 07 j 05:39	17° Z 20'19	1°44'46	evening set	438 Apr 08 j 09:37	1° Z 41'07	
min. Earth dist.	437 May 07 j 16:15	17° Z 05'25	0.54965 AU		438 Apr 13 j 05:40	30° R Y	
morning rise	437 May 16 j 10:29	13° Z 13'31		inferior conj	438 Apr 17 j 08:01	27° Y 41'56	0°12'50
direct	437 May 19 j 14:11	12° Z 51'53		minimum elong	438 Apr 17 j 08:36	27° Y 41'04	0°12'38
morning max el	437 Jun 01 j 04:44	18° Z 50'50	22°13'52	transit middle	438 Apr 17 j 08:36	27° Y 41'04	0°12'38
	437 Jun 10 j 06:13	0° II		transit begin	438 Apr 17 j 06:10	27° Y 44'44	
asc. node	437 Jun 18 j 19:57	15° II 03'21		transit end	438 Apr 17 j 11:02	27° Y 37'24	
morning set	437 Jun 22 j 17:00	22° II 56'02		desc. node	438 Apr 18 j 01:56	27° Y 14'58	
	437 Jun 26 j 01:21	0° S		min. Earth dist.	438 Apr 19 j 06:14	26° Y 32'39	0.55406 AU
				morning rise	438 Apr 26 j 05:35	23° Y 17'11	
superior conj	437 Jun 29 j 22:18	8° S 13'15	1°34'01	direct	438 Apr 30 j 04:15	22° Y 43'02	
minimum elong	437 Jun 29 j 20:07	8° S 01'42	1°33'47	morning max el	438 May 13 j 21:37	29° Y 29'59	23°54'28
max. Earth dist.	437 Jul 03 j 04:46	15° S 01'59	1.34442 AU		438 May 14 j 10:06	0° Z	
evening rise	437 Jul 07 j 21:45	24° S 27'19			438 Jun 03 j 08:15	0° II	
	437 Jul 10 j 19:31	0° O		asc. node	438 Jun 05 j 17:02	4° II 47'21	
desc. node	437 Jul 28 j 04:16	28° O 37'57		morning set	438 Jun 07 j 04:41	7° II 53'09	
	437 Jul 29 j 03:24	0° P					
evening max el	437 Aug 11 j 18:35	16° P 24'09	27°03'55	superior conj	438 Jun 14 j 05:42	23° II 01'43	1°19'15
retrograde	437 Aug 25 j 00:55	23° P 42'47		minimum elong	438 Jun 14 j 03:13	22° II 48'22	1°18'53
evening set	437 Aug 31 j 22:09	20° P 57'24		max. Earth dist.	438 Jun 16 j 06:15	27° II 22'14	1.33357 AU
min. Earth dist.	437 Sep 04 j 18:55	17° P 09'36	0.65248 AU		438 Jun 17 j 12:00	0° S	
inferior conj	437 Sep 06 j 19:13	14° P 52'16	-2°35'22	evening rise	438 Jun 21 j 16:04	8° S 36'24	
minimum elong	437 Sep 06 j 23:09	14° P 41'06	2°33'58		438 Jul 03 j 05:54	0° O	
morning rise	437 Sep 13 j 00:51	9° P 16'22		desc. node	438 Jul 15 j 01:17	17° O 50'02	
asc. node	437 Sep 14 j 19:07	8° P 40'30		evening max el	438 Jul 25 j 05:37	29° O 36'02	27°25'04
direct	437 Sep 15 j 19:12	8° P 35'01			438 Jul 25 j 15:48	0° P	
morning max el	437 Sep 22 j 08:10	12° P 07'19	18°12'23	retrograde	438 Aug 07 j 20:45	6° P 55'17	
	437 Oct 04 j 20:37	0° A		evening set	438 Aug 15 j 00:54	4° P 14'58	
morning set	437 Oct 10 j 21:16	9° A 55'15		min. Earth dist.	438 Aug 18 j 16:22	1° P 01'00	0.63756 AU
	437 Oct 23 j 06:06	0° M			438 Aug 19 j 16:21	30° R O	
desc. node	437 Oct 24 j 03:32	1° M 25'24		inferior conj	438 Aug 21 j 05:38	28° O 23'20	-3°27'50
				minimum elong	438 Aug 21 j 10:27	28° O 10'55	3°26'26
superior conj	437 Oct 25 j 10:08	3° M 26'54	-0°08'26	morning rise	438 Aug 27 j 21:02	23° O 03'50	
minimum elong	437 Oct 25 j 09:03	3° M 22'37	0°08'17	direct	438 Aug 30 j 10:36	22° O 31'23	
behind sun begin	437 Oct 24 j 23:32	2° M 44'50		asc. node	438 Sep 01 j 16:11	22° O 56'21	
behind sun end	437 Oct 25 j 18:35	4° M 00'23		morning max el	438 Sep 05 j 23:56	25° O 57'19	17°54'45
max. Earth dist.	437 Oct 28 j 09:58	8° M 10'42	1.44929 AU		438 Sep 09 j 10:04	0° P	
evening rise	437 Nov 10 j 21:15	29° M 13'39		morning set	438 Sep 22 j 19:55	21° P 50'28	
	437 Nov 11 j 09:10	0° X			438 Sep 27 j 13:49	0° A	
greatest brilliancy	437 Nov 23 j 04:11	18° X 11'17	-0.7m				
	437 Dec 01 j 10:19	0° Z		superior conj	438 Oct 05 j 07:38	12° A 57'44	0°37'29
evening max el	437 Dec 05 j 10:24	4° Z 43'18	19°36'08	minimum elong	438 Oct 05 j 11:27	13° A 13'25	0°36'57
asc. node	437 Dec 11 j 18:24	8° Z 52'41		max. Earth dist.	438 Oct 11 j 03:09	22° A 22'32	1.44143 AU
retrograde	437 Dec 12 j 18:13	8° Z 58'11		desc. node	438 Oct 11 j 00:35	22° A 12'14	
evening set	437 Dec 16 j 05:54	7° Z 47'00			438 Oct 15 j 22:49	0° M	
inferior conj	437 Dec 21 j 18:25	1° Z 50'03	2°57'05	evening rise	438 Oct 21 j 05:58	8° M 13'53	
minimum elong	437 Dec 21 j 15:39	1° Z 59'04	2°56'23		438 Nov 04 j 16:33	0° X	
min. Earth dist.	437 Dec 22 j 21:25	0° Z 21'35	0.66456 AU	evening max el	438 Nov 18 j 12:41	18° X 12'14	20°37'16
	437 Dec 23 j 04:06	30° R X		retrograde	438 Nov 26 j 15:51	23° X 00'24	
morning rise	437 Dec 27 j 01:10	25° X 37'43		asc. node	438 Nov 28 j 15:26	22° X 38'08	
direct	438 Jan 02 j 04:32	22° X 54'11		evening set	438 Nov 30 j 12:41	21° X 34'21	
	438 Jan 14 j 06:37	0° Z		inferior conj	438 Dec 05 j 22:20	15° X 25'47	2°18'36
morning max el	438 Jan 14 j 11:24	0° Z 12'00	25°44'41	minimum elong	438 Dec 05 j 19:44	15° X 34'37	2°17'44

min. Earth dist.	438 Dec 06 j 12:37	14° ♊ 37'08	0.67223 AU	morning rise	439 Nov 25 j 09:08	22° ♍ 55'59	
morning rise	438 Dec 11 j 02:36	9° ♊ 12'26		direct	439 Nov 30 j 06:44	20° ♍ 51'31	
direct	438 Dec 16 j 15:25	6° ♊ 46'06		morning max el	439 Dec 10 j 05:22	26° ♍ 45'26	22°53'32
morning max el	438 Dec 27 j 19:38	13° ♊ 26'01	24°21'32		439 Dec 13 j 05:16	0° ♊	
desc. node	439 Jan 06 j 23:46	25° ♊ 33'52		desc. node	439 Dec 24 j 20:49	15° ♊ 12'21	
	439 Jan 10 j 05:55	0° ♋			440 Jan 03 j 20:50	0° ♋	
	439 Jan 29 j 16:19	0° ♌		morning set	440 Jan 13 j 14:34	15° ♋ 31'37	
morning set	439 Feb 01 j 17:24	5° ♌ 13'50		max. Earth dist.	440 Jan 18 j 05:48	23° ♋ 20'20	1.39959 AU
max. Earth dist.	439 Feb 05 j 10:09	11° ♌ 47'34	1.37827 AU		440 Jan 22 j 01:26	0° ♌	
superior conj	439 Feb 12 j 08:43	24° ♌ 44'51	-1°42'47	superior conj	440 Jan 25 j 23:41	7° ♌ 04'19	-1°58'01
minimum elong	439 Feb 12 j 12:38	25° ♌ 03'41	1°42'23	minimum elong	440 Jan 26 j 02:20	7° ♌ 16'26	1°57'54
	439 Feb 15 j 01:37	0° ♍		evening rise	440 Feb 04 j 16:28	25° ♌ 18'52	
evening rise	439 Feb 21 j 01:40	11° ♍ 52'28			440 Feb 07 j 03:43	0° ♍	
asc. node	439 Feb 24 j 14:47	18° ♍ 47'55		asc. node	440 Feb 11 j 11:47	7° ♍ 56'49	
	439 Mar 02 j 22:09	0° ♎		evening max el	440 Feb 20 j 22:04	21° ♍ 22'47	18°27'52
evening max el	439 Mar 09 j 18:22	8° ♎ 51'58	19°06'20	retrograde	440 Feb 28 j 10:08	25° ♍ 04'12	
retrograde	439 Mar 18 j 11:21	13° ♎ 03'56		evening set	440 Mar 01 j 20:41	24° ♍ 42'00	
evening set	439 Mar 20 j 16:37	12° ♎ 48'44		inferior conj	440 Mar 09 j 05:56	20° ♍ 09'36	3°04'03
inferior conj	439 Mar 28 j 20:32	8° ♎ 36'12	1°55'16	minimum elong	440 Mar 09 j 09:46	20° ♍ 01'51	3°03'15
minimum elong	439 Mar 29 j 00:31	8° ♎ 29'21	1°54'04	min. Earth dist.	440 Mar 12 j 16:17	17° ♍ 25'12	0.58586 AU
min. Earth dist.	439 Mar 31 j 21:36	6° ♎ 31'26	0.56708 AU	morning rise	440 Mar 16 j 20:13	14° ♍ 42'31	
desc. node	439 Apr 04 j 22:58	4° ♎ 11'07		desc. node	440 Mar 21 j 19:59	13° ♍ 10'26	
morning rise	439 Apr 06 j 05:27	3° ♎ 38'29		direct	440 Mar 22 j 21:43	13° ♍ 07'27	
direct	439 Apr 11 j 06:21	2° ♎ 39'05		morning max el	440 Apr 06 j 06:12	20° ♍ 46'42	26°50'00
morning max el	439 Apr 25 j 12:09	9° ♎ 58'58	25°31'40		440 Apr 14 j 05:27	0° ♎	
	439 May 10 j 15:20	0° ♏			440 May 02 j 07:52	0° ♏	
morning set	439 May 22 j 16:27	22° ♏ 50'39		morning set	440 May 06 j 02:41	7° ♏ 42'40	
asc. node	439 May 23 j 14:05	24° ♏ 45'10		asc. node	440 May 09 j 11:07	14° ♏ 51'36	
	439 May 26 j 00:35	0° ♐		superior conj	440 May 13 j 03:53	22° ♏ 57'07	0°38'17
superior conj	439 May 29 j 16:10	7° ♐ 58'29	1°00'23	minimum elong	440 May 13 j 02:17	22° ♏ 48'18	0°37'57
minimum elong	439 May 29 j 13:55	7° ♐ 46'10	0°59'59	max. Earth dist.	440 May 13 j 03:23	22° ♏ 54'21	1.32326 AU
max. Earth dist.	439 May 30 j 14:59	10° ♐ 03'07	1.32657 AU		440 May 16 j 09:05	0° ♐	
evening rise	439 Jun 05 j 18:23	23° ♐ 09'02		evening rise	440 May 20 j 01:58	7° ♐ 56'01	
	439 Jun 09 j 03:55	0° ♑			440 May 31 j 15:12	0° ♑	
	439 Jun 27 j 02:19	0° ♒		desc. node	440 Jun 17 j 19:18	23° ♑ 25'50	
desc. node	439 Jul 01 j 22:18	6° ♒ 12'59		evening max el	440 Jun 18 j 15:10	24° ♑ 14'11	26°31'49
evening max el	439 Jul 07 j 13:26	12° ♒ 16'47	27°15'01		440 Jun 26 j 14:00	0° ♒	
retrograde	439 Jul 21 j 09:47	19° ♒ 33'17		retrograde	440 Jul 02 j 14:53	1° ♒ 28'06	
evening set	439 Jul 28 j 13:07	17° ♒ 11'00			440 Jul 08 j 12:14	30° ♑	
min. Earth dist.	439 Aug 01 j 03:28	14° ♒ 22'47	0.61942 AU	evening set	440 Jul 09 j 06:11	29° ♑ 36'44	
inferior conj	439 Aug 04 j 04:30	11° ♒ 36'06	-4°12'21	min. Earth dist.	440 Jul 13 j 04:23	26° ♑ 59'42	0.59914 AU
minimum elong	439 Aug 04 j 09:08	11° ♒ 25'29	4°11'26	inferior conj	440 Jul 16 j 12:14	24° ♑ 20'46	-4°41'56
morning rise	439 Aug 11 j 06:35	6° ♒ 36'23		minimum elong	440 Jul 16 j 14:50	24° ♑ 15'34	4°41'43
direct	439 Aug 13 j 17:57	6° ♒ 09'58		morning rise	440 Jul 24 j 01:29	19° ♑ 43'31	
asc. node	439 Aug 19 j 13:15	8° ♒ 39'27		direct	440 Jul 26 j 12:55	19° ♑ 21'07	
morning max el	439 Aug 20 j 14:47	9° ♒ 37'38	17°55'27	morning max el	440 Aug 03 j 01:39	23° ♑ 00'02	18°15'34
	439 Sep 03 j 00:02	0° ♓		asc. node	440 Aug 05 j 10:19	25° ♑ 34'38	
morning set	439 Sep 05 j 14:55	4° ♓ 44'24			440 Aug 08 j 15:39	0° ♒	
				morning set	440 Aug 19 j 00:36	18° ♒ 20'33	
superior conj	439 Sep 16 j 08:23	23° ♓ 49'31	1°12'22		440 Aug 25 j 04:58	0° ♓	
minimum elong	439 Sep 16 j 13:13	24° ♓ 10'23	1°11'49	superior conj	440 Aug 28 j 10:18	5° ♓ 55'48	1°34'27
	439 Sep 19 j 23:24	0° ♑		minimum elong	440 Aug 28 j 13:41	6° ♓ 11'14	1°34'12
max. Earth dist.	439 Sep 23 j 16:38	6° ♑ 10'22	1.42743 AU	max. Earth dist.	440 Sep 05 j 00:24	19° ♓ 17'37	1.40910 AU
desc. node	439 Sep 27 j 21:37	12° ♑ 58'47		evening rise	440 Sep 09 j 20:29	27° ♓ 22'07	
evening rise	439 Sep 30 j 16:27	17° ♑ 23'25			440 Sep 11 j 11:21	0° ♑	
	439 Oct 08 j 21:27	0° ♒		desc. node	440 Sep 13 j 18:38	3° ♑ 41'05	
	439 Oct 30 j 18:52	0° ♊			440 Oct 01 j 13:39	0° ♒	
evening max el	439 Nov 01 j 09:15	1° ♊ 42'04	21°49'33	evening max el	440 Oct 14 j 00:39	15° ♒ 12'42	23°08'32
retrograde	439 Nov 10 j 12:28	7° ♊ 08'01		retrograde	440 Oct 24 j 06:33	21° ♒ 17'12	
evening set	439 Nov 14 j 20:25	5° ♊ 25'21		evening set	440 Oct 29 j 03:24	19° ♒ 16'50	
asc. node	439 Nov 15 j 12:27	4° ♊ 50'54		asc. node	440 Nov 01 j 09:30	15° ♒ 45'17	
	439 Nov 19 j 13:52	30° ♑		min. Earth dist.	440 Nov 03 j 04:18	13° ♒ 21'45	0.67697 AU
inferior conj	439 Nov 20 j 04:50	29° ♒ 08'22	1°33'29	inferior conj	440 Nov 03 j 12:01	12° ♒ 55'10	0°43'15
minimum elong	439 Nov 20 j 02:51	29° ♒ 15'14	1°32'42	minimum elong	440 Nov 03 j 11:01	12° ♒ 58'36	0°42'48
min. Earth dist.	439 Nov 20 j 07:41	28° ♒ 58'28	0.67629 AU				

morning rise	440 Nov 08 j 18:34	6° \mathbb{M} 45'48		inferior conj	441 Oct 18 j 18:13	26° \mathbb{A} 44'38	-0°10'40
direct	440 Nov 13 j 01:33	5° \mathbb{M} 04'06		minimum elong	441 Oct 18 j 18:28	26° \mathbb{A} 43'46	0°10'34
morning max el	440 Nov 21 j 20:00	10° \mathbb{M} 12'21	21°29'19	transit middle	441 Oct 18 j 18:28	26° \mathbb{A} 43'46	0°10'34
	440 Dec 07 j 03:45	0° \mathbb{A}		transit begin	441 Oct 18 j 16:23	26° \mathbb{A} 50'45	
desc. node	440 Dec 10 j 17:51	5° \mathbb{A} 15'11		transit end	441 Oct 18 j 20:33	26° \mathbb{A} 36'48	
morning set	440 Dec 23 j 06:46	24° \mathbb{A} 27'22		asc. node	441 Oct 19 j 06:34	26° \mathbb{A} 03'23	
	440 Dec 26 j 18:02	0° \mathbb{B}		morning rise	441 Oct 24 j 04:59	20° \mathbb{A} 40'46	
max. Earth dist.	440 Dec 30 j 06:34	5° \mathbb{B} 44'43	1.41985 AU	direct	441 Oct 27 j 22:57	19° \mathbb{A} 20'10	
				morning max el	441 Nov 04 j 17:53	23° \mathbb{A} 49'20	20°15'09
superior conj	441 Jan 06 j 17:44	18° \mathbb{B} 21'43	-2°02'27		441 Nov 10 j 00:21	0° \mathbb{M}	
minimum elong	441 Jan 06 j 16:56	18° \mathbb{B} 18'17	2°02'27	desc. node	441 Nov 27 j 14:53	25° \mathbb{M} 35'33	
	441 Jan 13 j 07:40	0° \mathbb{A}			441 Nov 30 j 11:51	0° \mathbb{A}	
evening rise	441 Jan 17 j 18:37	8° \mathbb{A} 05'32		morning set	441 Dec 02 j 04:10	2° \mathbb{A} 35'37	
asc. node	441 Jan 28 j 08:49	26° \mathbb{A} 35'10		max. Earth dist.	441 Dec 12 j 14:39	19° \mathbb{A} 00'57	1.43636 AU
	441 Jan 30 j 16:38	0° \mathbb{H}					
evening max el	441 Feb 03 j 07:32	4° \mathbb{H} 18'34	18°09'27	superior conj	441 Dec 18 j 10:00	28° \mathbb{A} 26'48	-1°51'22
retrograde	441 Feb 10 j 02:21	7° \mathbb{H} 45'23		minimum elong	441 Dec 18 j 04:12	28° \mathbb{A} 02'57	1°51'01
evening set	441 Feb 12 j 17:46	7° \mathbb{H} 14'29			441 Dec 19 j 08:36	0° \mathbb{B}	
inferior conj	441 Feb 19 j 11:27	2° \mathbb{H} 21'10	3°39'32	evening rise	441 Dec 31 j 03:52	20° \mathbb{B} 03'39	
minimum elong	441 Feb 19 j 13:20	2° \mathbb{H} 16'47	3°39'21		442 Jan 05 j 21:34	0° \mathbb{A}	
	441 Feb 21 j 23:52	30° \mathbb{R}		asc. node	442 Jan 15 j 05:51	14° \mathbb{A} 33'10	
min. Earth dist.	441 Feb 22 j 17:19	29° \mathbb{A} 20'43	0.60689 AU	evening max el	442 Jan 17 j 19:48	17° \mathbb{A} 30'55	18°10'31
morning rise	441 Feb 26 j 07:04	26° \mathbb{A} 33'58		retrograde	442 Jan 24 j 07:38	20° \mathbb{A} 56'55	
direct	441 Mar 05 j 00:50	24° \mathbb{A} 22'10		evening set	442 Jan 27 j 03:42	20° \mathbb{A} 16'12	
desc. node	441 Mar 08 j 17:01	24° \mathbb{A} 58'38		inferior conj	442 Feb 02 j 09:28	15° \mathbb{A} 02'37	3°48'49
	441 Mar 16 j 21:27	0° \mathbb{H}		minimum elong	442 Feb 02 j 09:13	15° \mathbb{A} 03'18	3°48'49
morning max el	441 Mar 19 j 06:31	2° \mathbb{H} 12'15	27°36'58	min. Earth dist.	442 Feb 05 j 02:56	12° \mathbb{A} 10'08	0.62719 AU
	441 Apr 08 j 13:01	0° \mathbb{Y}		morning rise	442 Feb 08 j 13:42	9° \mathbb{A} 03'30	
morning set	441 Apr 20 j 09:36	22° \mathbb{Y} 23'06		direct	442 Feb 15 j 13:27	6° \mathbb{A} 24'25	
	441 Apr 24 j 00:18	0° \mathbb{B}		desc. node	442 Feb 23 j 14:04	9° \mathbb{A} 18'29	
asc. node	441 Apr 26 j 08:09	5° \mathbb{B} 02'20		morning max el	442 Mar 01 j 12:20	14° \mathbb{A} 18'01	27°47'00
max. Earth dist.	441 Apr 26 j 15:33	5° \mathbb{B} 42'41	1.32360 AU		442 Mar 14 j 05:36	0° \mathbb{H}	
					442 Apr 01 j 01:11	0° \mathbb{Y}	
superior conj	441 Apr 27 j 15:12	7° \mathbb{B} 52'00	0°13'40	morning set	442 Apr 04 j 10:56	6° \mathbb{Y} 43'21	
minimum elong	441 Apr 27 j 14:34	7° \mathbb{B} 48'36	0°13'33	max. Earth dist.	442 Apr 09 j 23:28	18° \mathbb{Y} 13'23	1.32786 AU
behind sun begin	441 Apr 27 j 11:56	7° \mathbb{B} 34'11					
behind sun end	441 Apr 27 j 17:12	8° \mathbb{B} 03'01		superior conj	442 Apr 12 j 00:20	22° \mathbb{Y} 36'07	-0°12'41
evening rise	441 May 04 j 12:40	22° \mathbb{B} 49'59		minimum elong	442 Apr 12 j 00:56	22° \mathbb{Y} 39'24	0°12'33
	441 May 07 j 23:54	0° \mathbb{II}		behind sun begin	442 Apr 11 j 21:43	22° \mathbb{Y} 22'02	
	441 May 26 j 10:00	0° \mathbb{B}		behind sun end	442 Apr 12 j 04:08	22° \mathbb{Y} 56'45	
evening max el	441 May 31 j 09:56	5° \mathbb{B} 26'33	25°19'22	asc. node	442 Apr 13 j 05:11	25° \mathbb{Y} 12'26	
desc. node	441 Jun 04 j 16:18	9° \mathbb{B} 00'18			442 Apr 15 j 10:10	0° \mathbb{B}	
retrograde	441 Jun 14 j 10:37	12° \mathbb{B} 35'49		evening rise	442 Apr 19 j 00:28	7° \mathbb{B} 43'11	
evening set	441 Jun 20 j 00:27	11° \mathbb{B} 23'22			442 Apr 30 j 17:30	0° \mathbb{II}	
min. Earth dist.	441 Jun 24 j 21:47	8° \mathbb{B} 39'03	0.57888 AU	evening max el	442 May 13 j 00:30	16° \mathbb{II} 06'31	23°48'15
inferior conj	441 Jun 28 j 01:29	6° \mathbb{B} 28'21	-4°45'54	desc. node	442 May 22 j 13:20	22° \mathbb{II} 19'40	
minimum elong	441 Jun 27 j 23:52	6° \mathbb{B} 31'10	4°45'49	retrograde	442 May 26 j 18:25	23° \mathbb{II} 00'01	
morning rise	441 Jul 06 j 01:58	2° \mathbb{B} 13'25		evening set	442 May 30 j 21:26	22° \mathbb{II} 22'27	
direct	441 Jul 08 j 15:06	1° \mathbb{B} 53'45		min. Earth dist.	442 Jun 06 j 11:20	19° \mathbb{II} 15'40	0.56189 AU
morning max el	441 Jul 17 j 05:33	5° \mathbb{B} 56'02	18°56'10	inferior conj	442 Jun 08 j 18:32	17° \mathbb{II} 51'46	-4°11'05
asc. node	441 Jul 23 j 07:23	13° \mathbb{B} 27'12		minimum elong	442 Jun 08 j 12:18	18° \mathbb{II} 01'17	4°09'56
	441 Aug 01 j 14:30	0° \mathbb{O}		morning rise	442 Jun 17 j 05:58	13° \mathbb{II} 53'30	
morning set	441 Aug 02 j 20:45	2° \mathbb{O} 28'07		direct	442 Jun 19 j 22:02	13° \mathbb{II} 35'19	
				morning max el	442 Jun 29 j 23:37	18° \mathbb{II} 14'59	19°57'55
superior conj	441 Aug 11 j 07:53	19° \mathbb{O} 01'23	1°45'04		442 Jul 08 j 23:19	0° \mathbb{B}	
minimum elong	441 Aug 11 j 09:10	19° \mathbb{O} 07'34	1°45'02	asc. node	442 Jul 10 j 04:27	2° \mathbb{B} 03'10	
	441 Aug 17 j 05:23	0° \mathbb{H}		morning set	442 Jul 18 j 00:08	16° \mathbb{B} 57'56	
max. Earth dist.	441 Aug 18 j 03:44	1° \mathbb{H} 40'31	1.38892 AU		442 Jul 24 j 09:50	0° \mathbb{O}	
evening rise	441 Aug 22 j 01:07	8° \mathbb{H} 30'24					
desc. node	441 Aug 31 j 15:38	24° \mathbb{H} 15'27		superior conj	442 Jul 25 j 19:43	2° \mathbb{O} 50'12	1°46'21
	441 Sep 04 j 09:29	0° \mathbb{A}		minimum elong	442 Jul 25 j 19:11	2° \mathbb{O} 47'33	1°46'20
evening max el	441 Sep 26 j 13:01	28° \mathbb{A} 46'50	24°28'09	max. Earth dist.	442 Jul 31 j 08:00	13° \mathbb{O} 34'54	1.36942 AU
	441 Sep 27 j 19:32	0° \mathbb{M}		evening rise	442 Aug 04 j 04:55	20° \mathbb{O} 45'29	
retrograde	441 Oct 07 j 21:03	5° \mathbb{M} 24'44			442 Aug 09 j 11:12	0° \mathbb{H}	
evening set	441 Oct 13 j 08:01	3° \mathbb{M} 07'01		desc. node	442 Aug 18 j 12:41	14° \mathbb{H} 36'57	
	441 Oct 16 j 06:29	30° \mathbb{R}			442 Aug 29 j 08:19	0° \mathbb{A}	
min. Earth dist.	441 Oct 18 j 00:05	27° \mathbb{A} 45'22	0.67443 AU	evening max el	442 Sep 09 j 00:42	12° \mathbb{A} 24'46	25°41'10

retrograde	442 Sep 21 j 06:59	19° Ω 26'11		evening max el	443 Aug 22 j 12:45	26° Π 00'58	26°39'45
evening set	442 Sep 27 j 08:27	16° Ω 53'25			443 Aug 27 j 05:36	0° Ω	
min. Earth dist.	442 Oct 01 j 16:38	12° Ω 07'17	0.66865 AU	retrograde	443 Sep 04 j 11:41	3° Ω 15'08	
inferior conj	442 Oct 02 j 21:39	10° Ω 34'39	-1°06'47	evening set	443 Sep 11 j 02:36	0° Ω 32'15	
minimum elong	442 Oct 02 j 23:21	10° Ω 29'13	1°06'03		443 Sep 11 j 17:31	30° \mathbb{R} Π	
asc. node	442 Oct 06 j 03:39	6° Ω 42'59		min. Earth dist.	443 Sep 15 j 03:25	26° Π 23'13	0.65946 AU
morning rise	442 Oct 08 j 14:28	4° Ω 39'03		inferior conj	443 Sep 16 j 20:19	24° Π 21'14	-2°03'24
direct	442 Oct 11 j 21:29	3° Ω 36'28		minimum elong	443 Sep 16 j 23:29	24° Π 11'47	2°02'09
morning max el	442 Oct 18 j 23:19	7° Ω 35'57	19°14'51	morning rise	443 Sep 22 j 20:51	18° Π 37'09	
	442 Nov 04 j 02:43	0° \mathbb{L}		asc. node	443 Sep 23 j 00:43	18° Π 32'03	
morning set	442 Nov 11 j 06:55	11° \mathbb{L} 08'13		direct	443 Sep 25 j 19:13	17° Π 48'58	
desc. node	442 Nov 14 j 11:56	16° \mathbb{L} 08'28		morning max el	443 Oct 02 j 10:47	21° Π 28'19	18°30'21
	442 Nov 23 j 08:19	0° \mathbb{X}			443 Oct 09 j 03:09	0° Ω	
max. Earth dist.	442 Nov 25 j 05:23	2° \mathbb{X} 57'36	1.44705 AU	morning set	443 Oct 22 j 10:29	20° Ω 58'02	
					443 Oct 28 j 01:51	0° \mathbb{L}	
superior conj	442 Nov 28 j 00:42	7° \mathbb{X} 24'00	-1°21'47	desc. node	443 Nov 01 j 08:59	6° \mathbb{L} 49'29	
minimum elong	442 Nov 27 j 16:15	6° \mathbb{X} 50'31	1°20'53				
	442 Dec 11 j 23:56	0° \mathbb{Z}		superior conj	443 Nov 07 j 01:32	15° \mathbb{L} 47'55	-0°36'56
evening rise	442 Dec 12 j 15:58	1° \mathbb{Z} 06'08		minimum elong	443 Nov 06 j 20:42	15° \mathbb{L} 28'58	0°36'17
	442 Dec 31 j 12:06	0° \approx		max. Earth dist.	443 Nov 08 j 00:01	17° \mathbb{L} 16'20	1.45067 AU
evening max el	443 Jan 01 j 08:05	0° \approx 53'10	18°30'14		443 Nov 16 j 02:26	0° \mathbb{X}	
asc. node	443 Jan 02 j 02:55	1° \approx 39'00		evening rise	443 Nov 23 j 04:24	11° \mathbb{X} 10'08	
retrograde	443 Jan 07 j 21:42	4° \approx 30'13		greatest brilliancy	443 Dec 02 j 14:10	26° \mathbb{X} 01'09	-0.8m
evening set	443 Jan 10 j 22:55	3° \approx 38'37			443 Dec 05 j 03:51	0° \mathbb{Z}	
	443 Jan 15 j 04:11	30° \mathbb{R} \mathbb{Z}		evening max el	443 Dec 15 j 17:51	14° \mathbb{Z} 19'36	19°07'25
inferior conj	443 Jan 16 j 19:58	28° \mathbb{Z} 06'15	3°39'01	asc. node	443 Dec 19 j 23:59	17° \mathbb{Z} 37'58	
minimum elong	443 Jan 16 j 18:10	28° \mathbb{Z} 11'30	3°38'49	retrograde	443 Dec 22 j 16:56	18° \mathbb{Z} 18'02	
min. Earth dist.	443 Jan 18 j 22:04	25° \mathbb{Z} 39'45	0.64473 AU	evening set	443 Dec 26 j 00:25	17° \mathbb{Z} 14'16	
morning rise	443 Jan 22 j 12:56	22° \mathbb{Z} 00'04		inferior conj	443 Dec 31 j 15:23	11° \mathbb{Z} 25'21	3°15'25
direct	443 Jan 29 j 09:28	19° \mathbb{Z} 08'36		minimum elong	443 Dec 31 j 12:47	11° \mathbb{Z} 33'33	3°14'53
desc. node	443 Feb 10 j 11:06	25° \mathbb{Z} 34'18		min. Earth dist.	444 Jan 02 j 02:20	9° \mathbb{Z} 34'43	0.65849 AU
morning max el	443 Feb 11 j 21:17	26° \mathbb{Z} 57'00	27°21'27	morning rise	444 Jan 06 j 00:55	5° \mathbb{Z} 14'47	
	443 Feb 14 j 18:17	0° \approx		direct	444 Jan 12 j 11:40	2° \mathbb{Z} 25'18	
	443 Mar 07 j 20:33	0° \mathbb{X}		morning max el	444 Jan 25 j 06:54	9° \mathbb{Z} 57'33	26°26'23
morning set	443 Mar 19 j 03:59	20° \mathbb{X} 34'38		desc. node	444 Jan 28 j 08:09	13° \mathbb{Z} 13'07	
	443 Mar 23 j 20:25	0° \mathbb{Y}			444 Feb 10 j 03:36	0° \approx	
max. Earth dist.	443 Mar 23 j 23:20	0° \mathbb{Y} 15'02	1.33638 AU		444 Feb 28 j 08:34	0° \mathbb{X}	
				morning set	444 Mar 01 j 09:04	3° \mathbb{X} 45'28	
superior conj	443 Mar 27 j 05:25	7° \mathbb{Y} 03'28	-0°39'48	max. Earth dist.	444 Mar 05 j 12:12	11° \mathbb{X} 42'57	1.34937 AU
minimum elong	443 Mar 27 j 07:21	7° \mathbb{Y} 13'43	0°39'25				
asc. node	443 Mar 31 j 02:14	15° \mathbb{Y} 17'57		superior conj	444 Mar 10 j 04:08	21° \mathbb{X} 06'34	-1°06'26
evening rise	443 Apr 03 j 11:37	22° \mathbb{Y} 29'31		minimum elong	444 Mar 10 j 07:17	21° \mathbb{X} 22'48	1°05'53
	443 Apr 07 j 03:34	0° \mathbb{X}			444 Mar 14 j 10:55	0° \mathbb{Y}	
evening max el	443 Apr 24 j 17:13	26° \mathbb{X} 41'42	22°13'03	asc. node	444 Mar 16 j 23:17	5° \mathbb{Y} 14'28	
	443 Apr 28 j 17:30	0° \mathbb{I}		evening rise	444 Mar 17 j 20:09	7° \mathbb{Y} 02'23	
retrograde	443 May 07 j 13:22	3° \mathbb{I} 00'33			444 Mar 30 j 11:04	0° \mathbb{X}	
desc. node	443 May 09 j 10:21	2° \mathbb{I} 52'42		evening max el	444 Apr 05 j 18:27	7° \mathbb{X} 39'50	20°46'57
evening set	443 May 10 j 09:26	2° \mathbb{I} 42'48		retrograde	444 Apr 17 j 02:25	13° \mathbb{X} 08'55	
	443 May 17 j 05:33	30° \mathbb{R} \mathbb{X}		evening set	444 Apr 19 j 06:40	12° \mathbb{X} 57'34	
min. Earth dist.	443 May 18 j 23:45	29° \mathbb{X} 01'49	0.55163 AU	desc. node	444 Apr 25 j 07:21	10° \mathbb{X} 46'22	
inferior conj	443 May 19 j 18:42	28° \mathbb{X} 35'08	-2°50'06	inferior conj	444 Apr 28 j 12:48	8° \mathbb{X} 59'46	-0°55'44
minimum elong	443 May 19 j 11:39	28° \mathbb{X} 45'04	2°47'59	minimum elong	444 Apr 28 j 10:10	9° \mathbb{X} 03'32	0°54'47
morning rise	443 May 28 j 15:31	24° \mathbb{X} 41'11		min. Earth dist.	444 Apr 29 j 12:35	8° \mathbb{X} 25'49	0.55037 AU
direct	443 May 31 j 13:23	24° \mathbb{X} 22'05		morning rise	444 May 07 j 13:05	4° \mathbb{X} 51'40	
	443 Jun 12 j 10:27	0° \mathbb{I}		direct	444 May 10 j 23:43	4° \mathbb{X} 26'07	
morning max el	443 Jun 12 j 06:21	29° \mathbb{X} 50'24	21°19'35	morning max el	444 May 24 j 03:08	10° \mathbb{X} 46'03	22°56'11
asc. node	443 Jun 27 j 01:30	21° \mathbb{I} 11'58			444 Jun 07 j 06:07	0° \mathbb{I}	
	443 Jul 01 j 12:13	0° \mathbb{O}		asc. node	444 Jun 12 j 22:33	10° \mathbb{I} 45'27	
morning set	443 Jul 02 j 08:16	1° \mathbb{O} 43'12		morning set	444 Jun 15 j 19:11	16° \mathbb{I} 38'16	
					444 Jun 22 j 01:33	0° \mathbb{O}	
superior conj	443 Jul 09 j 17:34	17° \mathbb{O} 09'40	1°40'15				
minimum elong	443 Jul 09 j 15:48	17° \mathbb{O} 00'32	1°40'07	superior conj	444 Jun 22 j 22:15	1° \mathbb{O} 50'28	1°28'18
max. Earth dist.	443 Jul 13 j 19:07	25° \mathbb{O} 26'57	1.35256 AU	minimum elong	444 Jun 22 j 19:52	1° \mathbb{O} 37'48	1°28'02
	443 Jul 16 j 02:26	0° \mathbb{Q}		max. Earth dist.	444 Jun 25 j 15:39	7° \mathbb{O} 35'59	1.33934 AU
evening rise	443 Jul 18 j 03:17	3° \mathbb{Q} 54'57		evening rise	444 Jun 30 j 15:29	17° \mathbb{O} 46'02	
	443 Aug 02 j 07:42	0° \mathbb{P}			444 Jul 07 j 02:55	0° \mathbb{Q}	
desc. node	443 Aug 05 j 09:43	4° \mathbb{P} 38'59		desc. node	444 Jul 22 j 06:44	24° \mathbb{Q} 13'06	

	444 Jul 26 j 14:55	0°♎		evening rise	445 Jun 14 j 13:32	2°♊06'12	
evening max el	444 Aug 04 j 00:36	9°♎25'32	27°16'22		445 Jun 29 j 23:46	0°♎	
retrograde	444 Aug 17 j 10:48	16°♎44'26		desc. node	445 Jul 09 j 03:44	13°♎06'40	
evening set	444 Aug 24 j 11:55	13°♎59'38		evening max el	445 Jul 17 j 10:18	22°♎25'01	27°24'42
min. Earth dist.	444 Aug 28 j 06:07	10°♎27'06	0.64664 AU	retrograde	445 Jul 31 j 03:55	29°♎43'51	
inferior conj	444 Aug 30 j 11:58	8°♎00'08	-2°58'14	evening set	445 Aug 07 j 09:01	27°♎09'07	
minimum elong	444 Aug 30 j 16:22	7°♎48'07	2°56'47	min. Earth dist.	445 Aug 10 j 23:05	24°♎07'47	0.63023 AU
morning rise	444 Sep 05 j 21:38	2°♎30'55		inferior conj	445 Aug 13 j 17:50	21°♎24'14	-3°47'59
direct	444 Sep 08 j 13:45	1°♎53'39		minimum elong	445 Aug 13 j 22:45	21°♎12'09	3°46'45
asc. node	444 Sep 08 j 21:44	1°♎54'14		morning rise	445 Aug 20 j 13:46	16°♎13'07	
morning max el	444 Sep 15 j 01:52	5°♎21'50	18°02'44	direct	445 Aug 23 j 02:03	15°♎43'37	
	444 Oct 01 j 11:16	0°♏		asc. node	445 Aug 26 j 18:47	16°♎48'48	
morning set	444 Oct 02 j 18:42	2°♏12'15		morning max el	445 Aug 29 j 17:40	19°♎09'06	17°52'46
					445 Sep 06 j 16:18	0°♎	
superior conj	444 Oct 16 j 10:24	24°♏40'58	0°12'04	morning set	445 Sep 15 j 02:43	14°♎34'19	
minimum elong	444 Oct 16 j 11:50	24°♏46'45	0°11'51		445 Sep 23 j 23:31	0°♏	
behind sun begin	444 Oct 16 j 04:34	24°♏17'33					
behind sun end	444 Oct 16 j 19:06	25°♏15'54		superior conj	445 Sep 26 j 19:17	4°♏46'06	0°53'50
desc. node	444 Oct 18 j 06:03	27°♏35'35		minimum elong	445 Sep 26 j 23:59	5°♏05'43	0°53'13
	444 Oct 19 j 18:21	0°♎		max. Earth dist.	445 Oct 03 j 10:33	15°♏40'09	1.43614 AU
max. Earth dist.	444 Oct 20 j 18:58	1°♎37'33	1.44685 AU	desc. node	445 Oct 05 j 03:05	18°♏22'49	
evening rise	444 Nov 01 j 20:15	20°♎26'19		evening rise	445 Oct 12 j 03:23	29°♏24'25	
	444 Nov 08 j 01:34	0°♊			445 Oct 12 j 12:35	0°♎	
greatest brilliancy	444 Nov 15 j 16:56	11°♊32'13	-0.6m		445 Nov 01 j 19:46	0°♊	
evening max el	444 Nov 27 j 23:10	27°♊47'50	20°00'26	evening max el	445 Nov 10 j 22:53	11°♊16'43	21°06'50
	444 Nov 30 j 08:33	0°♊		retrograde	445 Nov 19 j 12:01	16°♊21'12	
retrograde	444 Dec 05 j 14:28	2°♊16'12		asc. node	445 Nov 22 j 18:00	15°♊21'48	
asc. node	444 Dec 05 j 21:00	2°♊15'47		evening set	445 Nov 23 j 13:16	14°♊48'20	
evening set	444 Dec 09 j 05:51	0°♊58'45		inferior conj	445 Nov 28 j 22:11	8°♊35'32	2°00'12
	444 Dec 10 j 10:32	30°♋♊		minimum elong	445 Nov 28 j 19:48	8°♊43'43	1°59'20
inferior conj	444 Dec 14 j 16:54	24°♊56'11	2°41'40	min. Earth dist.	445 Nov 29 j 07:28	8°♊03'35	0.67435 AU
minimum elong	444 Dec 14 j 14:09	25°♊05'21	2°40'52	morning rise	445 Dec 04 j 02:09	2°♊22'06	
min. Earth dist.	444 Dec 15 j 14:13	23°♊44'59	0.66831 AU	direct	445 Dec 09 j 08:23	0°♊04'49	
morning rise	444 Dec 19 j 22:16	18°♊43'10		morning max el	445 Dec 20 j 00:25	6°♊26'27	23°44'05
direct	444 Dec 25 j 19:30	16°♊06'29		desc. node	446 Jan 01 j 02:17	21°♊11'29	
morning max el	445 Jan 06 j 15:47	23°♊09'33	25°10'32		446 Jan 07 j 07:08	0°♊	
	445 Jan 12 j 17:33	0°♊		morning set	446 Jan 24 j 10:25	27°♊07'42	
desc. node	445 Jan 14 j 05:12	1°♊51'10			446 Jan 26 j 02:33	0°♋	
	445 Feb 02 j 12:09	0°♋		max. Earth dist.	446 Jan 28 j 08:54	3°♋57'30	1.38721 AU
morning set	445 Feb 11 j 21:14	16°♋01'49					
max. Earth dist.	445 Feb 15 j 13:50	22°♋47'12	1.36671 AU	superior conj	446 Feb 04 j 18:07	17°♋26'21	-1°50'18
	445 Feb 19 j 08:53	0°♋		minimum elong	446 Feb 04 j 21:44	17°♋43'22	1°50'01
					446 Feb 11 j 06:48	0°♋	
superior conj	445 Feb 21 j 17:36	4°♋37'18	-1°30'47	evening rise	446 Feb 13 j 20:21	5°♋00'32	
minimum elong	445 Feb 21 j 21:30	4°♋56'38	1°30'16	asc. node	446 Feb 18 j 17:20	14°♋20'14	
evening rise	445 Mar 01 j 23:55	21°♋14'55			446 Feb 28 j 20:14	0°♋	
asc. node	445 Mar 03 j 20:19	24°♋56'57		evening max el	446 Mar 02 j 06:02	1°♋28'07	18°47'33
	445 Mar 06 j 10:33	0°♋		retrograde	446 Mar 10 j 09:31	5°♋25'11	
evening max el	445 Mar 19 j 07:01	19°♋15'03	19°37'29	evening set	446 Mar 12 j 16:49	5°♋07'25	
retrograde	445 Mar 28 j 21:55	23°♋52'35		inferior conj	446 Mar 20 j 12:35	0°♋47'11	2°28'49
evening set	445 Mar 31 j 00:28	23°♋40'15		minimum elong	446 Mar 20 j 16:52	0°♋39'17	2°27'40
inferior conj	445 Apr 08 j 15:22	19°♋36'21	0°59'51		446 Mar 21 j 14:07	30°♋♋	
minimum elong	445 Apr 08 j 17:51	19°♋32'25	0°59'01	min. Earth dist.	446 Mar 23 j 19:47	28°♋22'40	0.57448 AU
min. Earth dist.	445 Apr 11 j 02:55	18°♋02'21	0.55857 AU	morning rise	446 Mar 28 j 13:52	25°♋35'38	
desc. node	445 Apr 12 j 04:22	17°♋23'55		desc. node	446 Mar 30 j 01:24	25°♋01'30	
morning rise	445 Apr 17 j 08:39	14°♋57'44		direct	446 Apr 03 j 01:50	24°♋21'42	
direct	445 Apr 21 j 17:44	14°♋14'46			446 Apr 15 j 08:53	0°♋	
morning max el	445 May 05 j 18:24	21°♋17'49	24°37'20	morning max el	446 Apr 17 j 09:58	1°♋52'14	26°08'11
	445 May 13 j 07:19	0°♋			446 May 07 j 08:37	0°♋	
asc. node	445 May 30 j 19:35	0°♋36'03		morning set	446 May 15 j 18:25	16°♋32'24	
	445 May 30 j 12:41	0°♋		asc. node	446 May 17 j 16:38	20°♋38'12	
morning set	445 May 31 j 07:06	1°♋36'32			446 May 21 j 23:48	0°♋	
superior conj	445 Jun 07 j 07:11	16°♋43'32	1°11'42	superior conj	446 May 22 j 18:25	1°♋42'05	0°51'23
minimum elong	445 Jun 07 j 04:45	16°♋30'18	1°11'19	minimum elong	446 May 22 j 16:23	1°♋30'59	0°51'00
max. Earth dist.	445 Jun 08 j 20:33	20°♋05'50	1.33006 AU	max. Earth dist.	446 May 23 j 07:03	2°♋51'26	1.32464 AU
	445 Jun 13 j 12:55	0°♌		evening rise	446 May 29 j 18:23	16°♋45'55	

	446 Jun 05 j 10:46	0°☿			447 May 13 j 09:20	0°♊	
	446 Jun 25 j 02:39	0°♋		evening rise	447 May 14 j 03:32	1°♊36'24	
desc. node	446 Jun 26 j 00:43	1°♋02'48			447 May 29 j 13:45	0°☿	
evening max el	446 Jun 29 j 15:42	4°♋48'03	27°00'38	evening max el	447 Jun 11 j 14:41	16°☿26'21	26°04'14
retrograde	446 Jul 13 j 14:06	12°♋04'12		desc. node	447 Jun 12 j 21:43	17°☿37'39	
evening set	446 Jul 20 j 13:41	9°♋53'37		retrograde	447 Jun 25 j 15:28	23°☿38'24	
min. Earth dist.	446 Jul 24 j 05:51	7°♋12'07	0.61093 AU	evening set	447 Jul 01 j 21:19	22°☿03'36	
inferior conj	446 Jul 27 j 10:43	4°♋26'08	-4°27'17	min. Earth dist.	447 Jul 06 j 03:24	19°☿25'24	0.59031 AU
minimum elong	446 Jul 27 j 14:45	4°♋17'22	4°26'41	inferior conj	447 Jul 09 j 10:59	16°☿56'14	-4°47'36
	446 Aug 02 j 16:30	30°☿☿		minimum elong	447 Jul 09 j 12:01	16°☿54'17	4°47'33
morning rise	446 Aug 03 j 17:32	29°☿35'47		morning rise	447 Jul 17 j 04:57	12°☿28'21	
direct	446 Aug 06 j 04:30	29°☿11'26		direct	447 Jul 19 j 16:56	12°☿07'13	
	446 Aug 09 j 13:56	0°♋		morning max el	447 Jul 27 j 15:26	15°☿54'51	18°30'14
morning max el	446 Aug 13 j 07:13	2°♋42'56	18°01'29	asc. node	447 Jul 31 j 12:55	20°☿25'28	
asc. node	446 Aug 13 j 15:50	3°♋04'18			447 Aug 06 j 13:47	0°♋	
morning set	446 Aug 29 j 04:33	27°♋47'33		morning set	447 Aug 12 j 19:13	11°♋38'43	
	446 Aug 30 j 09:12	0°♎					
superior conj	446 Sep 08 j 07:17	16°♎10'56	1°23'15	superior conj	447 Aug 21 j 18:17	28°♋44'26	1°40'14
minimum elong	446 Sep 08 j 11:41	16°♎30'22	1°22'49	minimum elong	447 Aug 21 j 20:48	28°♋56'07	1°40'05
max. Earth dist.	446 Sep 15 j 21:03	29°♎09'38	1.42004 AU		447 Aug 22 j 10:35	0°♎	
	446 Sep 16 j 09:11	0°♏		max. Earth dist.	447 Aug 29 j 02:49	11°♎58'44	1.40063 AU
evening rise	446 Sep 21 j 19:45	8°♏50'38		evening rise	447 Sep 02 j 10:08	19°♎18'55	
desc. node	446 Sep 22 j 00:05	9°♏07'53		desc. node	447 Sep 08 j 21:06	29°♎47'35	
	446 Oct 05 j 16:34	0°♏			447 Sep 09 j 00:15	0°♏	
evening max el	446 Oct 24 j 17:05	24°♏46'41	22°22'45	evening max el	447 Sep 29 j 23:52	0°♏	
	446 Oct 31 j 19:00	0°♐			447 Oct 07 j 07:08	8°♏19'49	23°42'47
retrograde	446 Nov 03 j 07:44	0°♐29'31		retrograde	447 Oct 18 j 00:18	14°♏38'47	
	446 Nov 05 j 17:02	30°☿♏		evening set	447 Oct 23 j 03:03	12°♏31'04	
evening set	446 Nov 07 j 20:52	28°♏39'39		asc. node	447 Oct 27 j 12:06	7°♏30'45	
asc. node	446 Nov 09 j 15:03	26°♏57'47		min. Earth dist.	447 Oct 28 j 00:08	6°♏50'00	0.67633 AU
inferior conj	446 Nov 13 j 05:12	22°♏20'15	1°12'43	inferior conj	447 Oct 28 j 12:12	6°♏08'52	0°20'45
minimum elong	446 Nov 13 j 03:36	22°♏25'49	1°12'03	minimum elong	447 Oct 28 j 11:43	6°♏10'33	0°20'32
min. Earth dist.	446 Nov 13 j 03:35	22°♏25'53	0.67695 AU	morning rise	447 Nov 02 j 20:19	0°♏01'31	
morning rise	446 Nov 18 j 10:10	16°♏08'38			447 Nov 02 j 21:07	30°☿♏	
direct	446 Nov 23 j 01:27	14°♏13'43		direct	447 Nov 06 j 21:39	28°♏28'52	
morning max el	446 Dec 02 j 11:40	19°♏47'59	22°16'41	morning max el	447 Nov 11 j 06:49	0°♏	
	446 Dec 11 j 01:04	0°♐			447 Nov 15 j 05:08	3°♏18'59	20°56'13
desc. node	446 Dec 18 j 23:19	11°♐01'20		desc. node	447 Dec 05 j 00:59	0°♐	
	446 Dec 31 j 12:35	0°♑			447 Dec 05 j 20:22	1°♐12'38	
morning set	447 Jan 04 j 18:59	6°♑49'03		morning set	447 Dec 15 j 00:55	15°♐17'20	
max. Earth dist.	447 Jan 10 j 05:39	15°♑48'49	1.40849 AU	max. Earth dist.	447 Dec 23 j 09:52	28°♐37'48	1.42757 AU
					447 Dec 24 j 06:01	0°♑	
superior conj	447 Jan 18 j 00:52	29°♑21'06	-2°01'31	superior conj	447 Dec 30 j 08:27	10°♑08'59	-1°59'54
minimum elong	447 Jan 18 j 02:20	29°♑27'41	2°01'29	minimum elong	447 Dec 30 j 05:35	9°♑56'50	1°59'50
	447 Jan 18 j 09:34	0°♒			448 Jan 10 j 17:18	0°♒	
evening rise	447 Jan 28 j 06:14	18°♒10'40		evening rise	448 Jan 11 j 01:43	0°♒37'39	
	447 Feb 03 j 16:38	0°♓		asc. node	448 Jan 23 j 11:25	21°♒39'29	
asc. node	447 Feb 05 j 14:22	3°♓17'08		evening max el	448 Jan 27 j 23:44	27°♒14'43	18°07'32
evening max el	447 Feb 13 j 12:40	14°♓10'55	18°17'40		448 Jan 31 j 17:45	0°♓	
retrograde	447 Feb 20 j 15:51	17°♓43'51		retrograde	448 Feb 03 j 14:12	0°♓39'20	
evening set	447 Feb 23 j 04:39	17°♓18'02		evening set	448 Feb 06 j 07:44	0°♓04'12	
inferior conj	447 Mar 02 j 06:51	12°♓37'01	3°22'46		448 Feb 06 j 11:37	30°☿♓	
minimum elong	447 Mar 02 j 09:58	12°♓30'20	3°22'15	inferior conj	448 Feb 12 j 19:53	25°♓01'51	3°46'10
min. Earth dist.	447 Mar 05 j 16:49	9°♓42'34	0.59477 AU	minimum elong	448 Feb 12 j 20:49	24°♓59'34	3°46'07
morning rise	447 Mar 09 j 12:58	7°♓00'26		min. Earth dist.	448 Feb 15 j 20:59	22°♓02'29	0.61587 AU
direct	447 Mar 15 j 22:54	5°♓08'52		morning rise	448 Feb 19 j 08:31	19°♓09'02	
desc. node	447 Mar 16 j 22:27	5°♓11'26		direct	448 Feb 26 j 06:09	16°♓44'15	
morning max el	447 Mar 30 j 06:20	12°♓53'33	27°14'13	desc. node	448 Mar 02 j 19:31	18°♓07'51	
	447 Apr 12 j 19:12	0°♔		morning max el	448 Mar 11 j 09:04	24°♓35'39	27°45'46
	447 Apr 29 j 12:06	0°♕			448 Mar 16 j 07:27	0°♕	
morning set	447 Apr 30 j 03:26	1°♕19'32			448 Apr 05 j 03:01	0°♔	
asc. node	447 May 04 j 13:41	10°♕46'35		morning set	448 Apr 13 j 08:14	15°♔51'38	
				max. Earth dist.	448 Apr 19 j 06:38	28°♔24'23	1.32498 AU
superior conj	447 May 07 j 06:09	16°♕39'24	0°28'06	asc. node	448 Apr 20 j 10:44	0°♕57'05	
minimum elong	447 May 07 j 04:55	16°♕32'40	0°27'51		448 Apr 20 j 00:15	0°♕	
max. Earth dist.	447 May 06 j 19:41	15°♕41'57	1.32294 AU				

superior conj	448 Apr 20 j 16:44	1°♄29'48	0°02'40	max. Earth dist.	449 Apr 02 j 11:53	10°♄45'28	1.33096 AU
minimum elong	448 Apr 20 j 16:37	1°♄29'07	0°02'38				
behind sun begin	448 Apr 20 j 11:34	1°♄01'37		superior conj	449 Apr 05 j 00:24	16°♄07'38	-0°24'10
behind sun end	448 Apr 20 j 21:39	1°♄56'38		minimum elong	449 Apr 05 j 01:34	16°♄13'54	0°23'55
evening rise	448 Apr 27 j 14:57	16°♄30'32		asc. node	449 Apr 07 j 07:47	21°♄05'51	
	448 May 04 j 07:57	0°♄			449 Apr 11 j 11:15	0°♄	
evening max el	448 May 23 j 07:07	27°♄21'48	24°42'01	evening rise	449 Apr 12 j 02:44	1°♄21'55	
	448 May 26 j 07:42	0°♄			449 Apr 28 j 03:25	0°♄	
desc. node	448 May 29 j 18:45	2°♄18'56		evening max el	449 May 04 j 21:31	7°♄55'26	23°07'17
retrograde	448 Jun 06 j 05:50	4°♄25'36		desc. node	449 May 16 j 15:47	14°♄30'52	
evening set	448 Jun 11 j 05:39	3°♄29'15		retrograde	449 May 18 j 08:08	14°♄37'18	
min. Earth dist.	448 Jun 16 j 18:27	0°♄37'09	0.57103 AU	evening set	449 May 21 j 20:50	14°♄09'58	
	448 Jun 17 j 17:39	30°♄		min. Earth dist.	449 May 29 j 07:00	10°♄50'15	0.55649 AU
inferior conj	448 Jun 19 j 15:34	28°♄44'45	-4°36'37	inferior conj	449 May 31 j 00:37	9°♄49'35	-3°42'12
minimum elong	448 Jun 19 j 11:49	28°♄50'54	4°36'13	minimum elong	449 May 30 j 17:20	10°♄00'14	3°40'28
morning rise	448 Jun 27 j 20:44	24°♄37'58		morning rise	449 Jun 08 j 16:28	5°♄55'38	
direct	448 Jun 30 j 11:13	24°♄18'57		direct	449 Jun 11 j 10:26	5°♄37'34	
morning max el	448 Jul 09 j 15:19	28°♄35'09	19°19'59	morning max el	449 Jun 22 j 04:43	10°♄36'25	20°30'33
	448 Jul 11 j 01:10	0°♄		asc. node	449 Jul 04 j 07:02	27°♄28'29	
asc. node	448 Jul 17 j 09:59	8°♄37'26			449 Jul 05 j 15:58	0°♄	
morning set	448 Jul 26 j 18:48	25°♄56'38		morning set	449 Jul 11 j 00:28	10°♄33'49	
	448 Jul 28 j 19:29	0°♄					
				superior conj	449 Jul 18 j 15:06	26°♄13'21	1°44'34
superior conj	448 Aug 03 j 22:31	12°♄09'52	1°46'38	minimum elong	449 Jul 18 j 13:59	26°♄07'36	1°44'31
minimum elong	448 Aug 03 j 22:59	12°♄12'06	1°46'38		449 Jul 20 j 12:03	0°♄	
max. Earth dist.	448 Aug 10 j 06:17	24°♄08'33	1.38038 AU	max. Earth dist.	449 Jul 23 j 12:46	5°♄58'16	1.36177 AU
	448 Aug 13 j 12:17	0°♄		evening rise	449 Jul 27 j 13:19	13°♄35'48	
evening rise	448 Aug 14 j 01:02	0°♄56'17			449 Aug 05 j 22:50	0°♄	
desc. node	448 Aug 25 j 18:07	20°♄17'06		desc. node	449 Aug 12 j 15:08	10°♄31'03	
	448 Sep 01 j 06:07	0°♄			449 Aug 27 j 02:23	0°♄	
evening max el	448 Sep 18 j 19:00	21°♄55'53	25°00'25	evening max el	449 Sep 01 j 06:35	5°♄33'00	26°08'13
retrograde	448 Sep 30 j 12:48	28°♄44'34		retrograde	449 Sep 13 j 20:40	12°♄41'36	
evening set	448 Oct 06 j 06:07	26°♄19'51		evening set	449 Sep 20 j 04:10	10°♄03'23	
min. Earth dist.	448 Oct 10 j 18:44	21°♄13'22	0.67245 AU	min. Earth dist.	449 Sep 24 j 09:01	5°♄33'11	0.66518 AU
inferior conj	448 Oct 11 j 17:26	19°♄58'42	-0°34'17	inferior conj	449 Sep 25 j 19:04	3°♄47'19	-1°30'51
minimum elong	448 Oct 11 j 18:18	19°♄55'53	0°33'54	minimum elong	449 Sep 25 j 21:24	3°♄40'03	1°29'53
asc. node	448 Oct 13 j 09:11	17°♄50'48			449 Sep 29 j 01:50	30°♄	
morning rise	448 Oct 17 j 06:36	13°♄58'14		asc. node	449 Sep 30 j 06:15	28°♄54'53	
direct	448 Oct 20 j 19:41	12°♄45'43		morning rise	449 Oct 01 j 15:01	27°♄56'28	
morning max el	448 Oct 28 j 06:24	17°♄00'34	19°47'42	direct	449 Oct 04 j 18:00	27°♄00'37	
	448 Nov 07 j 09:18	0°♄			449 Oct 10 j 17:49	0°♄	
desc. node	448 Nov 21 j 17:24	21°♄38'52		morning max el	449 Oct 11 j 14:44	0°♄50'29	18°53'56
morning set	448 Nov 22 j 21:29	23°♄27'16			449 Oct 31 j 19:31	0°♄	
	448 Nov 27 j 02:42	0°♄		morning set	449 Nov 02 j 09:19	2°♄28'55	
max. Earth dist.	448 Dec 04 j 21:33	12°♄15'03	1.44178 AU	desc. node	449 Nov 08 j 14:26	12°♄15'33	
				max. Earth dist.	449 Nov 17 j 14:10	26°♄22'41	1.44948 AU
superior conj	448 Dec 09 j 13:14	19°♄42'44	-1°41'05				
minimum elong	448 Dec 09 j 05:41	19°♄12'15	1°40'28	superior conj	449 Nov 18 j 19:46	28°♄19'09	-1°04'05
	448 Dec 15 j 20:01	0°♄		minimum elong	449 Nov 18 j 12:07	27°♄49'03	1°03'10
evening rise	448 Dec 23 j 02:28	12°♄12'59			449 Nov 19 j 21:21	0°♄	
	449 Jan 02 j 17:28	0°♄		evening rise	449 Dec 04 j 04:37	22°♄50'30	
asc. node	449 Jan 09 j 08:28	9°♄16'43			449 Dec 08 j 14:35	0°♄	
evening max el	449 Jan 10 j 12:16	10°♄31'34	18°16'37	evening max el	449 Dec 24 j 23:39	23°♄55'38	18°43'57
retrograde	449 Jan 16 j 23:53	14°♄01'09		asc. node	449 Dec 27 j 05:31	25°♄55'48	
evening set	449 Jan 19 j 22:02	13°♄15'54		retrograde	449 Dec 31 j 16:37	27°♄41'00	
inferior conj	449 Jan 25 j 23:42	7°♄53'46	3°46'37	evening set	450 Jan 03 j 20:12	26°♄44'34	
minimum elong	449 Jan 25 j 22:42	7°♄56'31	3°46'34	inferior conj	450 Jan 09 j 14:23	21°♄04'49	3°30'28
min. Earth dist.	449 Jan 28 j 10:37	5°♄10'48	0.63507 AU	minimum elong	450 Jan 09 j 12:10	21°♄11'32	3°30'07
morning rise	449 Jan 31 j 22:38	1°♄51'01		min. Earth dist.	450 Jan 11 j 09:57	18°♄52'32	0.65103 AU
	449 Feb 03 j 20:58	30°♄		morning rise	450 Jan 15 j 03:44	14°♄56'11	
direct	449 Feb 07 j 21:47	29°♄05'09		direct	450 Jan 21 j 20:37	12°♄03'52	
	449 Feb 12 j 04:51	0°♄		morning max el	450 Feb 04 j 02:29	19°♄47'53	27°01'10
desc. node	449 Feb 17 j 16:34	3°♄21'30		desc. node	450 Feb 04 j 13:37	20°♄16'05	
morning max el	449 Feb 21 j 16:47	6°♄57'34	27°40'17		450 Feb 12 j 20:36	0°♄	
	449 Mar 11 j 08:35	0°♄			450 Mar 04 j 09:23	0°♄	
morning set	449 Mar 28 j 06:29	0°♄01'09		morning set	450 Mar 11 j 18:57	13°♄36'56	
	449 Mar 28 j 06:15	0°♄		max. Earth dist.	450 Mar 16 j 07:17	22°♄32'28	1.34130 AU

	450 Mar 19 j 22:12	0°♿		morning set	451 Feb 22 j 17:31	26°♿26'47	
					451 Feb 24 j 15:14	0°♿	
superior conj	450 Mar 20 j 03:03	0°♿25'22 -0°51'15		max. Earth dist.	451 Feb 26 j 14:45	3°♿46'20	1.35626 AU
minimum elong	450 Mar 20 j 05:32	0°♿38'23 0°50'47					
asc. node	450 Mar 25 j 04:48	11°♿07'53		superior conj	451 Mar 03 j 22:15	14°♿16'05 -1°17'10	
evening rise	450 Mar 27 j 12:58	16°♿02'58		minimum elong	451 Mar 04 j 01:49	14°♿34'07 1°16'36	
	450 Apr 03 j 14:22	0°♿		evening rise	451 Mar 11 j 19:45	0°♿27'53	
evening max el	450 Apr 16 j 17:11	18°♿37'22 21°34'46			451 Mar 11 j 14:17	0°♿	
retrograde	450 Apr 28 j 23:49	24°♿36'43		asc. node	451 Mar 12 j 01:50	0°♿58'59	
evening set	450 May 01 j 10:40	24°♿23'07		evening max el	451 Mar 29 j 23:17	29°♿50'56 20°15'07	
desc. node	450 May 03 j 12:49	23°♿51'26			451 Mar 30 j 03:04	0°♿	
inferior conj	450 May 10 j 20:31	20°♿21'31 -2°04'03		retrograde	451 Apr 09 j 13:33	4°♿56'45	
minimum elong	450 May 10 j 14:52	20°♿29'27 2°02'09		evening set	451 Apr 11 j 15:47	4°♿45'41	
min. Earth dist.	450 May 10 j 19:45	20°♿22'36 0.54986 AU		desc. node	451 Apr 20 j 09:50	0°♿57'21	
morning rise	450 May 19 j 19:50	16°♿23'42		inferior conj	451 Apr 20 j 16:31	0°♿47'27 -0°04'49	
direct	450 May 22 j 21:41	16°♿02'57		minimum elong	451 Apr 20 j 16:18	0°♿47'47 0°04'44	
morning max el	450 Jun 04 j 07:00	21°♿54'11 21°59'21		transit middle	451 Apr 20 j 16:18	0°♿47'47 0°04'44	
	450 Jun 11 j 05:30	0°♿		transit begin	451 Apr 20 j 12:27	0°♿53'28	
asc. node	450 Jun 21 j 04:05	16°♿48'14		transit end	451 Apr 20 j 20:09	0°♿42'06	
morning set	450 Jun 25 j 09:57	25°♿23'15			451 Apr 22 j 00:37	30°♿♿	
	450 Jun 27 j 14:41	0°♿		min. Earth dist.	451 Apr 22 j 09:21	29°♿47'11 0.55283 AU	
				morning rise	451 Apr 29 j 15:08	26°♿27'25	
superior conj	450 Jul 02 j 16:11	10°♿42'38 1°35'49		direct	451 May 03 j 10:31	25°♿55'50	
minimum elong	450 Jul 02 j 14:05	10°♿31'37 1°35'38			451 May 13 j 23:09	0°♿	
max. Earth dist.	450 Jul 06 j 03:22	17°♿53'42 1.34642 AU		morning max el	451 May 17 j 00:36	2°♿36'08 23°39'20	
evening rise	450 Jul 10 j 18:04	27°♿04'07			451 Jun 04 j 18:59	0°♿	
	450 Jul 12 j 06:50	0°♿		asc. node	451 Jun 08 j 01:06	6°♿29'14	
	450 Jul 30 j 06:04	0°♿		morning set	451 Jun 09 j 21:27	10°♿19'36	
desc. node	450 Jul 30 j 12:10	0°♿22'02					
evening max el	450 Aug 14 j 18:33	19°♿04'50 26°58'29		superior conj	451 Jun 16 j 22:54	25°♿28'55 1°21'46	
retrograde	450 Aug 27 j 23:15	26°♿22'43		minimum elong	451 Jun 16 j 20:26	25°♿15'39 1°21'26	
evening set	450 Sep 03 j 18:55	23°♿37'47		max. Earth dist.	451 Jun 19 j 03:38	0°♿10'52 1.33496 AU	
min. Earth dist.	450 Sep 07 j 16:43	19°♿44'25 0.65436 AU			451 Jun 19 j 01:36	0°♿	
inferior conj	450 Sep 09 j 15:03	17°♿30'55 -2°27'03		evening rise	451 Jun 24 j 10:53	11°♿08'35	
minimum elong	450 Sep 09 j 18:47	17°♿20'08 2°25'41			451 Jul 04 j 14:00	0°♿	
morning rise	450 Sep 15 j 19:18	11°♿52'42		desc. node	451 Jul 17 j 09:10	19°♿40'06	
asc. node	450 Sep 17 j 03:17	11°♿21'37			451 Jul 25 j 22:01	0°♿	
direct	450 Sep 18 j 14:35	11°♿09'44		evening max el	451 Jul 28 j 05:57	2°♿20'28 27°23'50	
morning max el	450 Sep 25 j 04:03	14°♿43'43 18°16'29		retrograde	451 Aug 10 j 19:54	9°♿39'29	
	450 Oct 06 j 03:04	0°♿		evening set	451 Aug 17 j 23:27	6°♿57'44	
morning set	450 Oct 14 j 01:18	12°♿55'23		min. Earth dist.	451 Aug 21 j 15:35	3°♿39'05 0.64000 AU	
	450 Oct 24 j 14:31	0°♿		inferior conj	451 Aug 24 j 02:53	1°♿04'01 -3°20'17	
desc. node	450 Oct 26 j 11:28	2°♿59'01		minimum elong	451 Aug 24 j 07:37	0°♿51'36 3°18'52	
					451 Aug 25 j 03:35	30°♿♿	
superior conj	450 Oct 28 j 21:24	6°♿48'33 -0°15'54		morning rise	451 Aug 30 j 16:46	25°♿41'47	
minimum elong	450 Oct 28 j 19:20	6°♿40'22 0°15'38		direct	451 Sep 02 j 06:56	25°♿08'08	
behind sun begin	450 Oct 28 j 16:16	6°♿28'15		asc. node	451 Sep 04 j 00:19	25°♿23'15	
behind sun end	450 Oct 28 j 22:23	6°♿52'29		morning max el	451 Sep 08 j 19:42	28°♿34'24 17°56'14	
max. Earth dist.	450 Oct 31 j 08:46	10°♿42'41 1.44988 AU			451 Sep 10 j 03:33	0°♿	
	450 Nov 12 j 16:33	0°♿		morning set	451 Sep 25 j 20:24	24°♿40'21	
evening rise	450 Nov 14 j 07:26	2°♿31'43			451 Sep 28 j 23:08	0°♿	
greatest brilliancy	450 Nov 25 j 22:09	20°♿32'44 -0.7m					
	450 Dec 02 j 08:29	0°♿		superior conj	451 Oct 08 j 15:11	16°♿08'05 0°31'07	
evening max el	450 Dec 08 j 07:46	7°♿23'37 19°28'12		minimum elong	451 Oct 08 j 18:31	16°♿21'41 0°30'40	
asc. node	450 Dec 14 j 02:33	11°♿22'20		desc. node	451 Oct 13 j 08:30	23°♿45'27	
retrograde	450 Dec 15 j 13:05	11°♿33'52		max. Earth dist.	451 Oct 14 j 02:39	24°♿57'51 1.44304 AU	
evening set	450 Dec 18 j 23:39	10°♿24'41			451 Oct 17 j 06:58	0°♿	
inferior conj	450 Dec 24 j 12:44	4°♿29'50 3°02'13		evening rise	451 Oct 24 j 17:29	11°♿34'39	
minimum elong	450 Dec 24 j 10:00	4°♿38'41 3°01'32			451 Nov 05 j 21:08	0°♿	
min. Earth dist.	450 Dec 25 j 17:47	2°♿55'28 0.66315 AU		evening max el	451 Nov 21 j 10:54	20°♿52'26 20°27'19	
	450 Dec 28 j 03:37	30°♿♿		retrograde	451 Nov 29 j 10:45	25°♿35'06	
morning rise	450 Dec 29 j 20:07	28°♿17'55		asc. node	451 Nov 30 j 23:35	25°♿21'45	
direct	451 Jan 05 j 01:33	25°♿32'26		evening set	451 Dec 03 j 06:08	24°♿11'17	
	451 Jan 14 j 08:48	0°♿		inferior conj	451 Dec 08 j 16:06	18°♿04'11 2°24'54	
morning max el	451 Jan 17 j 11:44	2°♿54'19 25°55'59		minimum elong	451 Dec 08 j 13:27	18°♿13'10 2°24'03	
desc. node	451 Jan 22 j 10:39	8°♿22'50		min. Earth dist.	451 Dec 09 j 08:08	17°♿09'48 0.67136 AU	
	451 Feb 07 j 02:09	0°♿		morning rise	451 Dec 13 j 20:34	11°♿50'58	

direct	451 Dec 19 j 11:39	9°♄21'49		morning max el	452 Dec 12 j 05:28	29°♍26'18	23°06'34
morning max el	451 Dec 30 j 20:03	16°♄07'46	24°34'27		452 Dec 12 j 18:38	0°♄	
desc. node	452 Jan 09 j 07:42	27°♄20'17		desc. node	452 Dec 26 j 04:46	16°♄53'59	
	452 Jan 11 j 07:32	0°♄			453 Jan 04 j 03:21	0°♄	
	452 Jan 31 j 01:18	0°♄		morning set	453 Jan 15 j 22:09	18°♄45'13	
morning set	452 Feb 04 j 20:40	8°♄14'47		max. Earth dist.	453 Jan 20 j 08:05	26°♄14'48	1.39639 AU
max. Earth dist.	452 Feb 08 j 12:42	14°♄48'31	1.37524 AU		453 Jan 22 j 11:42	0°♄	
superior conj	452 Feb 15 j 06:45	27°♄30'32	-1°39'50	superior conj	453 Jan 28 j 00:22	9°♄57'52	-1°56'19
minimum elong	452 Feb 15 j 10:42	27°♄49'42	1°39'23	minimum elong	453 Jan 28 j 03:20	10°♄11'35	1°56'09
	452 Feb 16 j 13:28	0°♄		evening rise	453 Feb 06 j 13:08	28°♄01'24	
evening rise	452 Feb 23 j 20:44	14°♄29'45			453 Feb 07 j 13:54	0°♄	
asc. node	452 Feb 26 j 22:52	20°♄33'58		asc. node	453 Feb 12 j 19:55	9°♄46'57	
	452 Mar 03 j 02:21	0°♄		evening max el	453 Feb 22 j 19:11	24°♄09'10	18°32'18
evening max el	452 Mar 11 j 16:36	11°♄42'48	19°13'43	retrograde	453 Mar 02 j 10:56	27°♄54'17	
retrograde	452 Mar 20 j 14:54	16°♄00'56		evening set	453 Mar 04 j 20:36	27°♄33'20	
evening set	452 Mar 22 j 19:24	15°♄46'34		inferior conj	453 Mar 12 j 08:29	23°♄04'06	2°55'53
inferior conj	452 Mar 31 j 02:11	11°♄36'25	1°41'49	minimum elong	453 Mar 12 j 12:30	22°♄56'09	2°54'59
minimum elong	452 Mar 31 j 05:54	11°♄30'10	1°40'38	min. Earth dist.	453 Mar 15 j 18:27	20°♄24'06	0.58279 AU
min. Earth dist.	452 Apr 03 j 00:16	9°♄39'16	0.56466 AU	morning rise	453 Mar 20 j 01:39	17°♄40'38	
desc. node	452 Apr 06 j 06:50	7°♄44'01		desc. node	453 Mar 24 j 03:54	16°♄19'48	
morning rise	452 Apr 08 j 13:32	6°♄43'42		direct	453 Mar 25 j 23:47	16°♄11'14	
direct	452 Apr 13 j 10:19	5°♄49'02		morning max el	453 Apr 09 j 08:30	23°♄48'41	26°40'10
morning max el	452 Apr 27 j 15:06	13°♄04'48	25°18'10		453 Apr 14 j 22:50	0°♄	
	452 May 10 j 19:33	0°♄			453 May 03 j 18:58	0°♄	
morning set	452 May 24 j 09:21	25°♄17'45		morning set	453 May 08 j 19:56	10°♄11'00	
asc. node	452 May 24 j 22:09	26°♄25'26		asc. node	453 May 11 j 19:12	16°♄30'49	
	452 May 26 j 14:17	0°♄					
superior conj	452 May 31 j 09:03	10°♄25'05	1°03'29	superior conj	453 May 15 j 20:43	25°♄23'52	0°41'50
minimum elong	452 May 31 j 06:44	10°♄12'26	1°03'05	minimum elong	453 May 15 j 18:59	25°♄14'22	0°41'29
max. Earth dist.	452 Jun 01 j 11:37	12°♄49'55	1.32734 AU	max. Earth dist.	453 May 15 j 23:39	25°♄39'59	1.32347 AU
evening rise	452 Jun 07 j 12:13	25°♄38'29			453 May 17 j 23:03	0°♄	
	452 Jun 09 j 15:47	0°♄		evening rise	453 May 22 j 19:10	10°♄23'40	
	452 Jun 27 j 02:24	0°♄			453 Jun 01 j 22:35	0°♄	
desc. node	452 Jul 03 j 06:10	8°♄11'46		desc. node	453 Jun 20 j 03:11	25°♄36'48	
evening max el	452 Jul 09 j 14:21	15°♄06'41	27°18'36	evening max el	453 Jun 21 j 17:01	27°♄10'32	26°40'16
retrograde	452 Jul 23 j 09:53	22°♄23'35			453 Jun 24 j 23:23	0°♄	
evening set	452 Jul 30 j 14:07	19°♄57'35		retrograde	453 Jul 05 j 16:27	4°♄25'18	
min. Earth dist.	452 Aug 03 j 04:10	17°♄06'28	0.62232 AU	evening set	453 Jul 12 j 10:22	2°♄28'30	
inferior conj	452 Aug 06 j 03:42	14°♄20'08	-4°06'24		453 Jul 16 j 01:49	30°♄	
minimum elong	452 Aug 06 j 08:28	14°♄09'01	4°05'23	min. Earth dist.	453 Jul 16 j 06:29	29°♄50'58	0.60222 AU
morning rise	452 Aug 13 j 04:10	9°♄17'23		inferior conj	453 Jul 19 j 13:56	27°♄09'25	-4°38'53
direct	452 Aug 15 j 15:44	8°♄50'12		minimum elong	453 Jul 19 j 16:59	27°♄03'11	4°38'34
asc. node	452 Aug 20 j 21:22	10°♄54'13		morning rise	453 Jul 27 j 01:32	22°♄28'53	
morning max el	452 Aug 22 j 10:54	12°♄16'51	17°54'09	direct	453 Jul 29 j 12:47	22°♄06'03	
	452 Sep 03 j 09:02	0°♄		morning max el	453 Aug 05 j 22:37	25°♄42'38	18°11'16
morning set	452 Sep 07 j 12:45	7°♄26'33		asc. node	453 Aug 07 j 18:26	27°♄39'25	
					453 Aug 09 j 14:58	0°♄	
superior conj	452 Sep 18 j 11:52	26°♄47'47	1°07'54	morning set	453 Aug 21 j 20:34	20°♄57'03	
minimum elong	452 Sep 18 j 16:45	27°♄08'43	1°07'20		453 Aug 26 j 16:12	0°♄	
	452 Sep 20 j 09:05	0°♄		superior conj	453 Aug 31 j 10:23	8°♄43'53	1°31'53
max. Earth dist.	452 Sep 25 j 16:53	8°♄50'27	1.42986 AU	minimum elong	453 Aug 31 j 14:04	9°♄00'31	1°31'34
desc. node	452 Sep 29 j 05:31	14°♄32'02		max. Earth dist.	453 Sep 08 j 01:14	22°♄03'02	1.41202 AU
evening rise	452 Oct 03 j 02:32	20°♄39'32			453 Sep 12 j 20:10	0°♄	
	452 Oct 09 j 04:07	0°♄		evening rise	453 Sep 13 j 03:15	0°♄28'48	
	452 Oct 30 j 11:06	0°♄		desc. node	453 Sep 16 j 02:32	5°♄14'58	
evening max el	452 Nov 03 j 08:14	4°♄21'30	21°38'12		453 Oct 02 j 16:13	0°♄	
retrograde	452 Nov 12 j 07:41	9°♄41'53		evening max el	453 Oct 17 j 00:17	17°♄51'39	22°56'37
evening set	452 Nov 16 j 13:52	8°♄01'42		retrograde	453 Oct 27 j 02:19	23°♄50'56	
asc. node	452 Nov 16 j 20:37	7°♄47'52		evening set	453 Oct 31 j 21:06	21°♄53'17	
inferior conj	452 Nov 21 j 22:21	1°♄45'37	1°40'40	asc. node	453 Nov 03 j 17:41	18°♄52'06	
minimum elong	452 Nov 21 j 20:15	1°♄52'52	1°39'52	inferior conj	453 Nov 06 j 05:35	15°♄31'57	0°51'07
min. Earth dist.	452 Nov 22 j 02:48	1°♄30'11	0.67590 AU	minimum elong	453 Nov 06 j 04:25	15°♄36'00	0°50'38
	452 Nov 23 j 05:08	30°♄		min. Earth dist.	453 Nov 05 j 23:25	15°♄53'14	0.67702 AU
morning rise	452 Nov 27 j 02:29	25°♄32'56		morning rise	453 Nov 11 j 11:39	9°♄21'54	
direct	452 Dec 02 j 02:17	23°♄25'11		direct	453 Nov 15 j 20:42	7°♄36'51	

morning max el	453 Nov 24 j 19:11	12° \mathbb{M} 51'53	21°41'19	transit end	454 Oct 21 j 14:49	29° \mathbb{L} 11'52	
	453 Dec 08 j 07:31	0° \mathbb{A}		asc. node	454 Oct 21 j 14:45	29° \mathbb{L} 12'06	
desc. node	453 Dec 13 j 01:49	6° \mathbb{A} 53'36		morning rise	454 Oct 26 j 22:04	23° \mathbb{L} 16'12	
morning set	453 Dec 26 j 18:30	27° \mathbb{A} 52'26		direct	454 Oct 30 j 17:53	21° \mathbb{L} 52'31	
	453 Dec 28 j 02:26	0° \mathbb{B}		morning max el	454 Nov 07 j 15:52	26° \mathbb{L} 26'56	20°25'20
max. Earth dist.	454 Jan 02 j 07:39	8° \mathbb{B} 30'19	1.41695 AU		454 Nov 10 j 20:19	0° \mathbb{M}	
				desc. node	454 Nov 29 j 22:50	27° \mathbb{M} 11'27	
superior conj	454 Jan 09 j 21:55	21° \mathbb{B} 25'32	-2°02'41		454 Dec 01 j 19:01	0° \mathbb{A}	
minimum elong	454 Jan 09 j 21:47	21° \mathbb{B} 24'58	2°02'42	morning set	454 Dec 05 j 17:19	6° \mathbb{A} 03'05	
	454 Jan 14 j 17:54	0° \mathbb{M}		max. Earth dist.	454 Dec 15 j 14:34	21° \mathbb{A} 38'53	1.43423 AU
evening rise	454 Jan 20 j 17:28	10° \mathbb{M} 54'42			454 Dec 20 j 17:40	0° \mathbb{B}	
asc. node	454 Jan 30 j 16:59	28° \mathbb{M} 30'45					
	454 Jan 31 j 15:55	0° \mathbb{H}		superior conj	454 Dec 21 j 18:13	1° \mathbb{B} 41'29	-1°54'14
evening max el	454 Feb 06 j 04:05	7° \mathbb{H} 02'15	18°10'59	minimum elong	454 Dec 21 j 13:09	1° \mathbb{B} 20'31	1°53'57
retrograde	454 Feb 13 j 00:46	10° \mathbb{H} 30'15		evening rise	455 Jan 03 j 05:29	23° \mathbb{B} 00'03	
evening set	454 Feb 15 j 15:29	10° \mathbb{H} 00'44			455 Jan 07 j 05:32	0° \mathbb{M}	
inferior conj	454 Feb 22 j 11:17	5° \mathbb{H} 10'41	3°35'56	asc. node	455 Jan 17 j 14:03	16° \mathbb{M} 35'20	
minimum elong	454 Feb 22 j 13:30	5° \mathbb{H} 05'38	3°35'41	evening max el	455 Jan 20 j 16:09	20° \mathbb{M} 12'28	18°09'12
min. Earth dist.	454 Feb 25 j 18:33	2° \mathbb{H} 10'54	0.60374 AU	retrograde	455 Jan 27 j 04:19	23° \mathbb{M} 37'34	
	454 Feb 28 j 12:54	30° \mathbb{M}		evening set	455 Jan 29 j 23:45	22° \mathbb{M} 58'19	
morning rise	454 Mar 01 j 09:32	29° \mathbb{M} 25'53		inferior conj	455 Feb 05 j 07:05	17° \mathbb{M} 47'42	3°48'42
direct	454 Mar 08 j 01:35	27° \mathbb{M} 19'00		minimum elong	455 Feb 05 j 07:07	17° \mathbb{M} 47'36	3°48'43
desc. node	454 Mar 11 j 00:58	27° \mathbb{M} 42'52		min. Earth dist.	455 Feb 08 j 02:40	14° \mathbb{M} 52'47	0.62434 AU
	454 Mar 16 j 01:16	0° \mathbb{H}		morning rise	455 Feb 11 j 13:22	11° \mathbb{M} 50'06	
morning max el	454 Mar 22 j 07:54	5° \mathbb{H} 08'11	27°32'10	direct	455 Feb 18 j 12:57	9° \mathbb{M} 14'13	
	454 Apr 09 j 19:41	0° \mathbb{Y}		desc. node	455 Feb 25 j 22:01	11° \mathbb{M} 41'37	
morning set	454 Apr 23 j 03:28	24° \mathbb{Y} 53'20		morning max el	455 Mar 04 j 12:53	17° \mathbb{M} 07'25	27°47'48
	454 Apr 25 j 13:53	0° \mathbb{B}			455 Mar 15 j 05:57	0° \mathbb{H}	
asc. node	454 Apr 28 j 16:16	6° \mathbb{B} 41'04			455 Apr 02 j 12:20	0° \mathbb{Y}	
max. Earth dist.	454 Apr 29 j 12:01	8° \mathbb{B} 28'56	1.32332 AU	morning set	455 Apr 07 j 05:47	9° \mathbb{Y} 16'43	
				max. Earth dist.	455 Apr 12 j 20:48	21° \mathbb{Y} 02'38	1.32701 AU
superior conj	454 Apr 30 j 08:13	10° \mathbb{B} 19'31	0°17'33				
minimum elong	454 Apr 30 j 07:26	10° \mathbb{B} 15'12	0°17'23	superior conj	455 Apr 14 j 17:48	25° \mathbb{Y} 05'26	-0°08'36
evening rise	454 May 07 j 05:33	25° \mathbb{B} 16'49		minimum elong	455 Apr 14 j 18:12	25° \mathbb{Y} 07'39	0°08'31
	454 May 09 j 11:56	0° \mathbb{H}		behind sun begin	455 Apr 14 j 13:48	24° \mathbb{Y} 43'49	
	454 May 27 j 03:02	0° \mathbb{B}		behind sun end	455 Apr 14 j 22:36	25° \mathbb{Y} 31'29	
evening max el	454 Jun 03 j 12:49	8° \mathbb{B} 28'55	25°31'39	asc. node	455 Apr 15 j 13:19	26° \mathbb{Y} 51'23	
desc. node	454 Jun 07 j 00:12	11° \mathbb{B} 27'52			455 Apr 17 j 00:00	0° \mathbb{B}	
retrograde	454 Jun 17 j 13:51	15° \mathbb{B} 39'17		evening rise	455 Apr 21 j 17:20	10° \mathbb{B} 10'23	
evening set	454 Jun 23 j 08:07	14° \mathbb{B} 21'05			455 May 01 j 22:56	0° \mathbb{H}	
min. Earth dist.	454 Jun 28 j 00:56	11° \mathbb{B} 38'47	0.58177 AU	evening max el	455 May 16 j 03:45	19° \mathbb{H} 12'16	24°02'23
inferior conj	454 Jul 01 j 06:05	9° \mathbb{B} 22'40	-4°47'34	desc. node	455 May 24 j 21:13	25° \mathbb{H} 09'54	
minimum elong	454 Jul 01 j 05:12	9° \mathbb{B} 24'14	4°47'32	retrograde	455 May 29 j 23:17	26° \mathbb{H} 08'45	
morning rise	454 Jul 09 j 04:53	5° \mathbb{B} 04'26		evening set	455 Jun 03 j 07:43	25° \mathbb{H} 26'48	
direct	454 Jul 11 j 17:36	4° \mathbb{B} 44'28		min. Earth dist.	455 Jun 09 j 14:51	22° \mathbb{H} 24'10	0.56409 AU
morning max el	454 Jul 20 j 03:44	8° \mathbb{B} 42'42	18°48'47	inferior conj	455 Jun 12 j 02:05	20° \mathbb{H} 52'38	-4°19'20
asc. node	454 Jul 25 j 15:30	15° \mathbb{B} 23'45		minimum elong	455 Jun 11 j 20:25	21° \mathbb{H} 01'27	4°18'24
	454 Aug 03 j 01:28	0° \mathbb{L}		morning rise	455 Jun 20 j 11:53	16° \mathbb{H} 52'22	
morning set	454 Aug 05 j 15:23	5° \mathbb{L} 00'11		direct	455 Jun 23 j 03:32	16° \mathbb{H} 33'59	
				morning max el	455 Jul 02 j 23:19	21° \mathbb{H} 07'14	19°47'26
superior conj	454 Aug 14 j 05:23	21° \mathbb{L} 41'15	1°44'06		455 Jul 10 j 02:49	0° \mathbb{B}	
minimum elong	454 Aug 14 j 07:00	21° \mathbb{L} 48'54	1°44'02	asc. node	455 Jul 12 j 12:33	3° \mathbb{B} 53'43	
	454 Aug 18 j 16:33	0° \mathbb{H}		morning set	455 Jul 20 j 17:53	19° \mathbb{B} 27'15	
max. Earth dist.	454 Aug 21 j 04:54	4° \mathbb{H} 31'31	1.39194 AU		455 Jul 25 j 22:41	0° \mathbb{L}	
evening rise	454 Aug 25 j 04:11	11° \mathbb{H} 26'29					
desc. node	454 Sep 02 j 23:33	25° \mathbb{H} 50'38		superior conj	455 Jul 28 j 15:24	5° \mathbb{L} 24'23	1°46'40
	454 Sep 05 j 16:01	0° \mathbb{L}		minimum elong	455 Jul 28 j 15:06	5° \mathbb{L} 22'58	1°46'40
	454 Sep 28 j 03:39	0° \mathbb{M}		max. Earth dist.	455 Aug 03 j 08:51	16° \mathbb{L} 29'32	1.37219 AU
evening max el	454 Sep 29 j 13:01	1° \mathbb{M} 25'21	24°16'37	evening rise	455 Aug 07 j 04:49	23° \mathbb{L} 32'20	
retrograde	454 Oct 10 j 17:24	7° \mathbb{M} 58'44			455 Aug 10 j 20:53	0° \mathbb{H}	
evening set	454 Oct 16 j 02:10	5° \mathbb{M} 43'39		desc. node	455 Aug 20 j 20:34	16° \mathbb{H} 14'27	
min. Earth dist.	454 Oct 20 j 19:32	0° \mathbb{M} 16'49	0.67500 AU		455 Aug 30 j 09:06	0° \mathbb{L}	
	454 Oct 21 j 00:32	30° \mathbb{H}		evening max el	455 Sep 12 j 00:46	15° \mathbb{L} 03'15	25°31'02
inferior conj	454 Oct 21 j 12:03	29° \mathbb{L} 21'10	-0°02'19	retrograde	455 Sep 24 j 03:57	22° \mathbb{L} 01'28	
minimum elong	454 Oct 21 j 12:07	29° \mathbb{L} 20'59	0°02'17	evening set	455 Sep 30 j 03:19	19° \mathbb{L} 30'45	
transit middle	454 Oct 21 j 12:07	29° \mathbb{L} 20'59	0°02'17	min. Earth dist.	455 Oct 04 j 12:40	14° \mathbb{L} 39'16	0.66975 AU
transit begin	454 Oct 21 j 09:24	29° \mathbb{L} 30'06		inferior conj	455 Oct 05 j 16:00	13° \mathbb{L} 11'19	-0°58'10

minimum elong	455 Oct 05 j 17:28	13° Ω 06'34	0°57'32		456 Sep 16 j 02:33	30° \mathbb{R} \mathbb{M}	
asc. node	455 Oct 08 j 11:47	9° Ω 44'58		min. Earth dist.	456 Sep 17 j 00:21	28° \mathbb{M} 56'21	0.66108 AU
morning rise	455 Oct 11 j 07:48	7° Ω 14'19		inferior conj	456 Sep 18 j 15:28	26° \mathbb{M} 58'25	-1°54'50
direct	455 Oct 14 j 16:22	6° Ω 09'10		minimum elong	456 Sep 18 j 18:26	26° \mathbb{M} 49'30	1°53'41
morning max el	455 Oct 21 j 20:13	10° Ω 12'12	19°22'52	asc. node	456 Sep 24 j 08:48	21° \mathbb{M} 21'11	
	455 Nov 05 j 08:44	0° \mathbb{M}		morning rise	456 Sep 24 j 14:46	21° \mathbb{M} 12'34	
morning set	455 Nov 14 j 17:42	14° \mathbb{M} 27'37		direct	456 Sep 27 j 14:18	20° \mathbb{M} 22'29	
desc. node	455 Nov 16 j 19:53	17° \mathbb{M} 42'41		morning max el	456 Oct 04 j 06:56	24° \mathbb{M} 04'07	18°35'57
	455 Nov 24 j 16:36	0° \mathbb{A}			456 Oct 09 j 03:59	0° Ω	
max. Earth dist.	455 Nov 28 j 04:40	5° \mathbb{A} 31'12	1.44594 AU	morning set	456 Oct 24 j 16:59	24° Ω 04'38	
					456 Oct 28 j 10:05	0° \mathbb{M}	
superior conj	455 Dec 01 j 12:17	10° \mathbb{A} 47'10	-1°27'25	desc. node	456 Nov 02 j 16:54	8° \mathbb{M} 22'40	
minimum elong	455 Dec 01 j 03:52	10° \mathbb{A} 13'39	1°26'34				
	455 Dec 13 j 08:25	0° \mathbb{B}		superior conj	456 Nov 09 j 13:53	19° \mathbb{M} 12'19	-0°44'17
evening rise	455 Dec 15 j 20:56	4° \mathbb{B} 10'50		minimum elong	456 Nov 09 j 08:11	18° \mathbb{M} 49'53	0°43'34
	456 Jan 01 j 03:47	0° \approx		max. Earth dist.	456 Nov 09 j 23:06	19° \mathbb{M} 48'30	1.45062 AU
evening max el	456 Jan 04 j 04:32	3° \approx 33'02	18°26'07		456 Nov 16 j 10:38	0° \mathbb{A}	
asc. node	456 Jan 04 j 11:05	3° \approx 49'25		evening rise	456 Nov 25 j 12:54	14° \mathbb{A} 23'33	
retrograde	456 Jan 10 j 17:19	7° \approx 07'41		greatest brilliancy	456 Dec 04 j 01:19	27° \mathbb{A} 55'37	-0.8m
evening set	456 Jan 13 j 17:45	6° \approx 17'41			456 Dec 05 j 08:59	0° \mathbb{B}	
inferior conj	456 Jan 19 j 15:53	0° \approx 47'51	3°41'28	evening max el	456 Dec 17 j 14:45	16° \mathbb{B} 58'54	19°00'48
minimum elong	456 Jan 19 j 14:17	0° \approx 52'28	3°41'18	asc. node	456 Dec 21 j 08:06	19° \mathbb{B} 59'23	
	456 Jan 20 j 08:22	30° \mathbb{R} \mathbb{B}		retrograde	456 Dec 24 j 12:01	20° \mathbb{B} 53'41	
min. Earth dist.	456 Jan 21 j 20:16	28° \mathbb{B} 16'48	0.64236 AU	evening set	456 Dec 27 j 18:27	19° \mathbb{B} 51'51	
morning rise	456 Jan 25 j 10:18	24° \mathbb{B} 42'32		inferior conj	457 Jan 02 j 10:10	14° \mathbb{B} 05'06	3°19'45
direct	456 Feb 01 j 07:45	21° \mathbb{B} 52'07		minimum elong	457 Jan 02 j 07:39	14° \mathbb{B} 12'59	3°19'15
desc. node	456 Feb 12 j 19:04	27° \mathbb{B} 41'45		min. Earth dist.	457 Jan 03 j 23:17	12° \mathbb{B} 08'46	0.65667 AU
morning max el	456 Feb 14 j 21:30	29° \mathbb{B} 41'33	27°27'22	morning rise	457 Jan 07 j 20:35	7° \mathbb{B} 54'55	
	456 Feb 15 j 04:50	0° \approx		direct	457 Jan 14 j 09:01	5° \mathbb{B} 04'28	
	456 Mar 08 j 04:12	0° \mathbb{H}		morning max el	457 Jan 27 j 07:18	12° \mathbb{B} 40'13	26°36'12
morning set	456 Mar 21 j 00:15	23° \mathbb{H} 12'37		desc. node	457 Jan 29 j 16:07	15° \mathbb{B} 09'56	
	456 Mar 24 j 09:26	0° \mathbb{Y}			457 Feb 10 j 06:43	0° \approx	
max. Earth dist.	456 Mar 25 j 22:11	3° \mathbb{Y} 09'28	1.33483 AU		457 Feb 28 j 19:11	0° \mathbb{H}	
				morning set	457 Mar 04 j 07:25	6° \mathbb{H} 30'33	
superior conj	456 Mar 28 j 23:35	9° \mathbb{Y} 35'20	-0°35'42	max. Earth dist.	457 Mar 08 j 12:55	14° \mathbb{H} 42'56	1.34710 AU
minimum elong	456 Mar 29 j 01:19	9° \mathbb{Y} 44'34	0°35'20				
asc. node	456 Apr 01 j 10:22	16° \mathbb{Y} 57'43		superior conj	457 Mar 12 j 23:24	23° \mathbb{H} 42'36	-1°02'30
evening rise	456 Apr 05 j 04:40	24° \mathbb{Y} 58'01		minimum elong	457 Mar 13 j 02:24	23° \mathbb{H} 58'05	1°01'57
	456 Apr 07 j 15:00	0° \mathbb{B}			457 Mar 15 j 23:56	0° \mathbb{Y}	
evening max el	456 Apr 26 j 19:37	29° \mathbb{B} 46'00	22°26'54	asc. node	457 Mar 19 j 07:24	6° \mathbb{Y} 55'57	
	456 Apr 27 j 01:28	0° \mathbb{I}		evening rise	457 Mar 20 j 13:43	9° \mathbb{Y} 33'26	
retrograde	456 May 09 j 19:56	6° \mathbb{I} 11'21			457 Mar 31 j 11:50	0° \mathbb{B}	
desc. node	456 May 10 j 18:15	6° \mathbb{I} 09'24		evening max el	457 Apr 08 j 19:16	10° \mathbb{B} 39'29	20°58'53
evening set	456 May 12 j 19:56	5° \mathbb{I} 51'33		retrograde	457 Apr 20 j 09:28	16° \mathbb{B} 16'53	
min. Earth dist.	456 May 21 j 03:04	2° \mathbb{I} 16'39	0.55261 AU	evening set	457 Apr 22 j 14:53	16° \mathbb{B} 05'13	
inferior conj	456 May 22 j 04:16	1° \mathbb{I} 40'58	-3°05'09	desc. node	457 Apr 27 j 15:17	14° \mathbb{B} 24'25	
minimum elong	456 May 21 j 20:58	1° \mathbb{I} 51'20	3°03'03	inferior conj	457 May 01 j 22:25	12° \mathbb{B} 06'51	-1°14'04
	456 May 25 j 05:52	30° \mathbb{R} \mathbb{B}		minimum elong	457 May 01 j 18:55	12° \mathbb{B} 11'49	1°12'48
morning rise	456 May 30 j 23:56	27° \mathbb{B} 47'44		min. Earth dist.	457 May 02 j 15:50	11° \mathbb{B} 42'10	0.54990 AU
direct	456 Jun 02 j 20:43	27° \mathbb{B} 28'59		morning rise	457 May 10 j 22:46	8° \mathbb{B} 02'07	
	456 Jun 10 j 17:33	0° \mathbb{I}		direct	457 May 14 j 06:42	7° \mathbb{B} 38'11	
morning max el	456 Jun 14 j 07:44	2° \mathbb{I} 49'17	21°06'20	morning max el	457 May 27 j 05:54	13° \mathbb{B} 50'46	22°41'10
asc. node	456 Jun 28 j 09:35	22° \mathbb{I} 58'08			457 Jun 08 j 12:27	0° \mathbb{I}	
	456 Jul 02 j 00:15	0° \mathbb{E}		asc. node	457 Jun 15 j 06:38	12° \mathbb{I} 28'27	
morning set	456 Jul 04 j 01:26	4° \mathbb{E} 10'39		morning set	457 Jun 18 j 12:02	19° \mathbb{I} 04'41	
					457 Jun 23 j 15:20	0° \mathbb{E}	
superior conj	456 Jul 11 j 11:58	19° \mathbb{E} 39'59	1°41'34				
minimum elong	456 Jul 11 j 10:21	19° \mathbb{E} 31'39	1°41'29	superior conj	457 Jun 25 j 15:48	4° \mathbb{E} 18'20	1°30'26
max. Earth dist.	456 Jul 15 j 18:45	28° \mathbb{E} 20'44	1.35484 AU	minimum elong	457 Jun 25 j 13:28	4° \mathbb{E} 06'00	1°30'11
	456 Jul 16 j 14:51	0° \mathbb{Q}		max. Earth dist.	457 Jun 28 j 13:46	10° \mathbb{E} 26'12	1.34107 AU
evening rise	456 Jul 20 j 00:41	6° \mathbb{Q} 34'19		evening rise	457 Jul 03 j 11:06	20° \mathbb{E} 19'58	
	456 Aug 02 j 14:07	0° \mathbb{M}			457 Jul 08 j 13:21	0° \mathbb{Q}	
desc. node	456 Aug 06 j 17:35	6° \mathbb{M} 19'51		desc. node	457 Jul 24 j 14:35	25° \mathbb{Q} 58'43	
evening max el	456 Aug 24 j 12:42	28° \mathbb{M} 39'54	26°32'11		457 Jul 27 j 13:10	0° \mathbb{M}	
	456 Aug 25 j 23:02	0° Ω		evening max el	457 Aug 07 j 00:31	12° \mathbb{M} 06'15	27°12'29
retrograde	456 Sep 06 j 09:24	5° Ω 52'44		retrograde	457 Aug 20 j 09:25	19° \mathbb{M} 25'13	
evening set	456 Sep 12 j 22:32	3° Ω 10'47		evening set	457 Aug 27 j 09:20	16° \mathbb{M} 39'54	


































































































































min. Earth dist.	457 Aug 31 j 04:23	13° \mathbb{M} 02'08	0.64880 AU		458 Jul 26 j 12:55	0° \mathbb{M}	
inferior conj	457 Sep 02 j 08:18	10° \mathbb{M} 38'21	-2°50'11	retrograde	458 Aug 03 j 03:38	2° \mathbb{M} 29'38	
minimum elong	457 Sep 02 j 12:33	10° \mathbb{M} 26'35	2°48'44	evening set	458 Aug 10 j 08:32	29° \mathcal{Q} 52'38	
morning rise	457 Sep 08 j 16:33	5° \mathbb{M} 06'48			458 Aug 10 j 04:24	30° \mathbb{R} \mathcal{Q}	
direct	457 Sep 11 j 09:22	4° \mathbb{M} 28'12		min. Earth dist.	458 Aug 13 j 22:59	26° \mathcal{Q} 47'05	0.63287 AU
asc. node	457 Sep 11 j 05:50	4° \mathbb{M} 28'19		inferior conj	458 Aug 16 j 15:51	24° \mathcal{Q} 05'15	-3°41'03
morning max el	457 Sep 17 j 21:39	7° \mathbb{M} 57'37	18°05'42	minimum elong	458 Aug 16 j 20:46	23° \mathcal{Q} 52'58	3°39'44
	457 Oct 02 j 19:42	0° \mathcal{Q}		morning rise	458 Aug 23 j 10:12	18° \mathcal{Q} 51'10	
morning set	457 Oct 05 j 21:01	5° \mathcal{Q} 06'17		direct	458 Aug 25 j 22:50	18° \mathcal{Q} 20'44	
				asc. node	458 Aug 29 j 02:54	19° \mathcal{Q} 09'29	
superior conj	457 Oct 19 j 20:10	27° \mathcal{Q} 57'05	0°04'55	morning max el	458 Sep 01 j 13:33	21° \mathcal{Q} 46'16	17°53'01
minimum elong	457 Oct 19 j 20:47	27° \mathcal{Q} 59'30	0°04'50		458 Sep 07 j 20:48	0° \mathbb{M}	
behind sun begin	457 Oct 19 j 10:30	27° \mathcal{Q} 18'23		morning set	458 Sep 18 j 01:56	17° \mathbb{M} 19'35	
behind sun end	457 Oct 20 j 07:04	28° \mathcal{Q} 40'34			458 Sep 25 j 09:22	0° \mathcal{Q}	
desc. node	457 Oct 20 j 13:54	29° \mathcal{Q} 07'49					
	457 Oct 21 j 03:01	0° \mathbb{M}		superior conj	458 Sep 30 j 01:02	7° \mathcal{Q} 50'17	0°48'15
max. Earth dist.	457 Oct 23 j 17:53	4° \mathbb{M} 09'10	1.44785 AU	minimum elong	458 Sep 30 j 05:30	8° \mathcal{Q} 08'50	0°47'40
evening rise	457 Nov 05 j 07:12	23° \mathbb{M} 44'56		max. Earth dist.	458 Oct 06 j 09:58	18° \mathcal{Q} 15'02	1.43811 AU
	457 Nov 09 j 08:23	0° \mathcal{Q}		desc. node	458 Oct 07 j 10:56	19° \mathcal{Q} 55'01	
greatest brilliancy	457 Nov 18 j 16:45	14° \mathcal{Q} 13'41	-0.7m		458 Oct 13 j 20:29	0° \mathbb{M}	
	457 Nov 30 j 10:34	0° \mathcal{Q}		evening rise	458 Oct 15 j 14:33	2° \mathbb{M} 43'01	
evening max el	457 Nov 30 j 20:47	0° \mathcal{Q} 26'47	19°51'39		458 Nov 02 j 21:46	0° \mathcal{Q}	
retrograde	457 Dec 08 j 09:23	4° \mathcal{Q} 50'29		evening max el	458 Nov 13 j 21:26	13° \mathcal{Q} 55'54	20°56'17
asc. node	457 Dec 08 j 05:07	4° \mathcal{Q} 50'18		retrograde	458 Nov 22 j 07:03	18° \mathcal{Q} 54'39	
evening set	457 Dec 11 j 23:26	3° \mathcal{Q} 35'15		asc. node	458 Nov 25 j 02:09	18° \mathcal{Q} 10'32	
	457 Dec 15 j 13:56	30° \mathbb{R} \mathcal{Q}		evening set	458 Nov 26 j 06:41	17° \mathcal{Q} 24'17	
inferior conj	457 Dec 17 j 10:56	27° \mathcal{Q} 34'32	2°47'21	inferior conj	458 Dec 01 j 15:49	11° \mathcal{Q} 12'55	2°06'53
minimum elong	457 Dec 17 j 08:11	27° \mathcal{Q} 43'41	2°46'34	minimum elong	458 Dec 01 j 13:21	11° \mathcal{Q} 21'22	2°06'02
min. Earth dist.	457 Dec 18 j 10:13	26° \mathcal{Q} 17'17	0.66706 AU	min. Earth dist.	458 Dec 02 j 02:51	10° \mathcal{Q} 35'05	0.67368 AU
morning rise	457 Dec 22 j 16:43	21° \mathcal{Q} 21'40		morning rise	458 Dec 06 j 19:49	4° \mathcal{Q} 59'25	
direct	457 Dec 28 j 16:07	18° \mathcal{Q} 42'25		direct	458 Dec 12 j 04:23	2° \mathcal{Q} 38'50	
morning max el	458 Jan 09 j 16:18	25° \mathcal{Q} 51'07	25°22'45	morning max el	458 Dec 23 j 00:44	9° \mathcal{Q} 07'08	23°57'12
	458 Jan 13 j 11:57	0° \mathcal{Q}		desc. node	459 Jan 03 j 10:11	22° \mathcal{Q} 55'06	
desc. node	458 Jan 16 j 13:09	3° \mathcal{Q} 40'21			459 Jan 08 j 11:35	0° \mathcal{Q}	
	458 Feb 03 j 19:53	0° \approx		morning set	459 Jan 27 j 15:28	0° \approx 13'28	
morning set	458 Feb 14 j 22:28	18° \approx 56'07			459 Jan 27 j 12:20	0° \approx	
max. Earth dist.	458 Feb 18 j 15:52	25° \approx 48'23	1.36385 AU	max. Earth dist.	459 Jan 31 j 11:18	6° \approx 54'54	1.38406 AU
	458 Feb 20 j 20:46	0° \mathcal{H}					
				superior conj	459 Feb 07 j 17:12	20° \approx 14'42	-1°47'47
superior conj	458 Feb 24 j 14:27	7° \mathcal{H} 18'35	-1°27'20	minimum elong	459 Feb 07 j 20:58	20° \approx 32'32	1°47'28
minimum elong	458 Feb 24 j 18:18	7° \mathcal{H} 37'45	1°26'48		459 Feb 12 j 18:28	0° \mathcal{H}	
evening rise	458 Mar 04 j 18:20	23° \mathcal{H} 49'15		evening rise	459 Feb 16 j 16:03	7° \mathcal{H} 39'14	
asc. node	458 Mar 06 j 04:26	26° \mathcal{H} 40'46		asc. node	459 Feb 21 j 01:30	16° \mathcal{H} 07'21	
	458 Mar 07 j 20:41	0° \mathcal{Y}			459 Mar 01 j 11:10	0° \mathcal{Y}	
evening max el	458 Mar 22 j 06:09	22° \mathcal{Y} 08'46	19°46'40	evening max el	459 Mar 05 j 03:49	4° \mathcal{Y} 16'35	18°53'42
retrograde	458 Apr 01 j 03:06	26° \mathcal{Y} 53'26		retrograde	459 Mar 13 j 11:45	8° \mathcal{Y} 18'24	
evening set	458 Apr 03 j 05:13	26° \mathcal{Y} 41'38		evening set	459 Mar 15 j 18:19	8° \mathcal{Y} 01'36	
inferior conj	458 Apr 11 j 22:52	22° \mathcal{Y} 39'40	0°43'37	inferior conj	459 Mar 23 j 16:56	3° \mathcal{Y} 44'14	2°17'35
minimum elong	458 Apr 12 j 00:44	22° \mathcal{Y} 36'46	0°42'57	minimum elong	459 Mar 23 j 21:11	3° \mathcal{Y} 36'36	2°16'23
min. Earth dist.	458 Apr 14 j 06:05	21° \mathcal{Y} 14'08	0.55678 AU	min. Earth dist.	459 Mar 26 j 22:24	1° \mathcal{Y} 26'10	0.57179 AU
desc. node	458 Apr 14 j 12:20	21° \mathcal{Y} 04'41			459 Mar 29 j 04:05	30° \mathbb{R} \mathcal{H}	
morning rise	458 Apr 20 j 17:50	18° \mathcal{Y} 05'57		morning rise	459 Mar 31 j 20:58	28° \mathcal{H} 37'22	
direct	458 Apr 24 j 23:05	17° \mathcal{Y} 26'22		desc. node	459 Apr 01 j 09:23	28° \mathcal{H} 24'54	
morning max el	458 May 08 j 21:36	24° \mathcal{Y} 24'18	24°22'30	direct	459 Apr 06 j 05:14	27° \mathcal{H} 28'37	
	458 May 14 j 00:32	0° \mathcal{B}			459 Apr 14 j 07:10	0° \mathcal{Y}	
	458 Jun 01 j 01:16	0° \mathbb{I}		morning max el	459 Apr 20 j 12:39	4° \mathcal{Y} 55'48	25°55'56
asc. node	458 Jun 02 j 03:41	2° \mathbb{I} 16'37			459 May 08 j 16:53	0° \mathcal{B}	
morning set	458 Jun 02 j 23:54	4° \mathbb{I} 02'31		morning set	459 May 18 j 11:26	18° \mathcal{B} 58'49	
				asc. node	459 May 20 j 00:46	22° \mathcal{B} 17'05	
superior conj	458 Jun 10 j 00:15	19° \mathbb{I} 09'54	1°14'30		459 May 23 j 14:04	0° \mathbb{I}	
minimum elong	458 Jun 09 j 21:47	18° \mathbb{I} 56'34	1°14'07				
max. Earth dist.	458 Jun 11 j 17:27	22° \mathbb{I} 52'15	1.33120 AU	superior conj	459 May 25 j 11:16	4° \mathbb{I} 07'48	0°54'42
	458 Jun 15 j 02:10	0° \mathcal{B}		minimum elong	459 May 25 j 09:09	3° \mathbb{I} 56'13	0°54'17
evening rise	458 Jun 17 j 07:54	4° \mathcal{B} 36'23		max. Earth dist.	459 May 26 j 03:23	5° \mathbb{I} 36'03	1.32521 AU
	458 Jul 01 j 05:42	0° \mathcal{Q}		evening rise	459 Jun 01 j 11:56	19° \mathbb{I} 13'40	
desc. node	458 Jul 11 j 11:37	14° \mathcal{Q} 59'21			459 Jun 06 j 21:27	0° \mathcal{B}	
evening max el	458 Jul 20 j 10:44	25° \mathcal{Q} 10'25	27°25'28		459 Jun 25 j 18:47	0° \mathcal{Q}	

desc. node	459 Jun 28 j 08:39	3°Ω05'38		desc. node	460 Jun 14 j 05:41	19°♄55'03	
evening max el	459 Jul 02 j 17:05	7°Ω40'06	27°06'24	retrograde	460 Jun 27 j 17:31	26°♄38'12	
retrograde	459 Jul 16 j 14:53	14°Ω56'20		evening set	460 Jul 04 j 03:02	24°♄57'30	
evening set	459 Jul 23 j 15:58	12°Ω41'28		min. Earth dist.	460 Jul 08 j 06:01	22°♄20'08	0.59338 AU
min. Earth dist.	459 Jul 27 j 07:19	9°Ω57'52	0.61392 AU	inferior conj	460 Jul 11 j 13:56	19°♄47'11	-4°46'15
inferior conj	459 Jul 30 j 10:55	7°Ω11'20	-4°22'25	minimum elong	460 Jul 11 j 15:34	19°♄44'02	4°46'10
minimum elong	459 Jul 30 j 15:13	7°Ω01'49	4°21'41	morning rise	460 Jul 19 j 06:14	15°♄15'59	
morning rise	459 Aug 06 j 16:05	2°Ω17'34		direct	460 Jul 21 j 18:03	14°♄54'24	
direct	459 Aug 09 j 03:07	1°Ω52'33		morning max el	460 Jul 29 j 12:52	18°♄38'41	18°24'41
asc. node	459 Aug 15 j 23:58	5°Ω13'47		asc. node	460 Aug 01 j 21:02	22°♄26'11	
morning max el	459 Aug 16 j 03:38	5°Ω22'37	17°58'57		460 Aug 06 j 20:49	0°Ω	
	459 Aug 31 j 19:45	0°♐		morning set	460 Aug 14 j 14:37	14°Ω13'21	
morning set	459 Sep 01 j 01:34	0°♐26'41			460 Aug 22 j 22:03	0°♐	
superior conj	459 Sep 11 j 09:13	19°♐03'58	1°19'37	superior conj	460 Aug 23 j 17:13	1°♐28'43	1°38'23
minimum elong	459 Sep 11 j 13:49	19°♐24'05	1°19'08	minimum elong	460 Aug 23 j 20:03	1°♐41'47	1°38'11
	459 Sep 17 j 18:46	0°♑		max. Earth dist.	460 Aug 31 j 04:14	14°♐47'59	1.40366 AU
max. Earth dist.	459 Sep 18 j 21:37	1°♑51'33	1.42274 AU	evening rise	460 Sep 04 j 15:22	22°♐21'07	
desc. node	459 Sep 24 j 07:57	10°♑40'43			460 Sep 09 j 08:22	0°♑	
evening rise	459 Sep 25 j 04:37	12°♑02'54		desc. node	460 Sep 10 j 04:59	1°♑21'45	
	459 Oct 06 j 22:10	0°♒			460 Sep 29 j 22:42	0°♒	
evening max el	459 Oct 27 j 16:29	27°♒25'54	22°11'02	evening max el	460 Oct 09 j 07:01	10°♒58'31	23°30'46
	459 Oct 30 j 11:18	0°♓		retrograde	460 Oct 19 j 20:12	17°♒12'21	
retrograde	459 Nov 06 j 03:05	3°♓02'45		evening set	460 Oct 24 j 20:54	15°♒07'10	
evening set	459 Nov 10 j 14:23	1°♓15'26		asc. node	460 Oct 28 j 20:16	10°♒39'02	
asc. node	459 Nov 11 j 23:13	29°♒59'06		inferior conj	460 Oct 30 j 05:51	8°♒45'04	0°28'52
	459 Nov 11 j 22:53	30°♒♒		minimum elong	460 Oct 30 j 05:10	8°♒47'24	0°28'34
inferior conj	459 Nov 15 j 22:43	24°♒56'53	1°20'12	min. Earth dist.	460 Oct 29 j 19:17	9°♒21'13	0.67668 AU
minimum elong	459 Nov 15 j 20:58	25°♒02'56	1°19'31	morning rise	460 Nov 04 j 13:23	2°♒37'03	
min. Earth dist.	459 Nov 15 j 22:40	24°♒57'05	0.67682 AU	direct	460 Nov 08 j 16:41	1°♒01'18	
morning rise	459 Nov 21 j 03:25	18°♒44'59		morning max el	460 Nov 17 j 03:49	5°♒57'20	21°07'29
direct	459 Nov 25 j 20:54	16°♒46'38			460 Dec 05 j 06:43	0°♓	
morning max el	459 Dec 05 j 11:22	22°♒27'38	22°29'24	desc. node	460 Dec 07 j 04:14	2°♓49'18	
	459 Dec 11 j 23:56	0°♓		morning set	460 Dec 17 j 13:39	18°♓44'08	
desc. node	459 Dec 21 j 07:13	12°♓40'55			460 Dec 24 j 14:58	0°♔	
	460 Jan 01 j 20:15	0°♔		max. Earth dist.	460 Dec 25 j 10:36	1°♔20'01	1.42499 AU
morning set	460 Jan 08 j 04:27	10°♔07'18		superior conj	461 Jan 01 j 14:15	13°♔16'37	-2°01'11
max. Earth dist.	460 Jan 13 j 07:31	18°♔39'09	1.40544 AU	minimum elong	461 Jan 01 j 12:08	13°♔07'36	2°01'08
	460 Jan 19 j 20:04	0°♕			461 Jan 11 j 03:04	0°♕	
superior conj	460 Jan 21 j 02:56	2°♕18'20	-2°00'32	evening rise	461 Jan 13 j 01:37	3°♕29'07	
minimum elong	460 Jan 21 j 04:53	2°♕27'05	2°00'29	asc. node	461 Jan 24 j 19:36	23°♕37'01	
evening rise	460 Jan 31 j 03:44	20°♕55'08			461 Jan 29 j 21:28	0°♖	
	460 Feb 05 j 00:46	0°♖		evening max el	461 Jan 29 j 20:04	29°♕56'34	18°07'49
asc. node	460 Feb 07 j 22:33	5°♖08'45		retrograde	461 Feb 05 j 11:52	3°♖21'44	
evening max el	460 Feb 16 j 09:31	16°♖55'30	18°20'50	evening set	461 Feb 08 j 04:39	2°♖48'06	
retrograde	460 Feb 23 j 15:30	20°♖31'01			461 Feb 12 j 10:10	30°♗	
evening set	460 Feb 26 j 03:34	20°♖06'27		inferior conj	461 Feb 14 j 18:39	27°♗48'48	3°44'14
inferior conj	460 Mar 04 j 08:09	15°♖28'25	3°16'41	minimum elong	461 Feb 14 j 19:54	27°♗45'45	3°44'10
minimum elong	460 Mar 04 j 11:33	15°♖21'17	3°16'05	min. Earth dist.	461 Feb 17 j 21:31	24°♗48'37	0.61273 AU
min. Earth dist.	460 Mar 07 j 18:31	12°♖37'02	0.59162 AU	morning rise	461 Feb 21 j 09:39	21°♗57'47	
morning rise	460 Mar 11 j 17:07	9°♖55'02		direct	461 Feb 28 j 06:05	19°♗37'25	
direct	460 Mar 18 j 00:20	8°♖09'14		desc. node	461 Mar 05 j 03:27	20°♗42'08	
desc. node	460 Mar 18 j 06:25	8°♖09'24		morning max el	461 Mar 14 j 10:06	27°♗28'26	27°43'32
morning max el	460 Apr 01 j 08:09	15°♖52'00	27°06'32		461 Mar 16 j 20:14	0°♗	
	460 Apr 12 j 20:32	0°♘			461 Apr 06 j 12:01	0°♘	
	460 Apr 30 j 00:42	0°♙		morning set	461 Apr 16 j 02:29	18°♘23'08	
morning set	460 May 01 j 20:56	3°♙48'02			461 Apr 21 j 14:12	0°♙	
asc. node	460 May 05 j 21:50	12°♙25'08		max. Earth dist.	461 Apr 22 j 03:34	1°♙12'32	1.32440 AU
				asc. node	461 Apr 22 j 18:52	2°♙35'51	
superior conj	460 May 08 j 23:04	19°♙05'56	0°31'49	superior conj	461 Apr 23 j 09:54	3°♙57'52	0°06'39
minimum elong	460 May 08 j 21:42	18°♙58'25	0°31'32	minimum elong	461 Apr 23 j 09:36	3°♙56'12	0°06'34
max. Earth dist.	460 May 08 j 16:04	18°♙27'27	1.32295 AU	behind sun begin	461 Apr 23 j 04:57	3°♙30'48	
	460 May 13 j 22:53	0°♚		behind sun end	461 Apr 23 j 14:15	4°♙21'38	
evening rise	460 May 15 j 20:37	4°♚03'25		evening rise	461 Apr 30 j 07:48	18°♙57'34	
	460 May 29 j 17:33	0°♛			461 May 05 j 18:01	0°♚	
evening max el	460 Jun 13 j 17:08	19°♛25'37	26°14'32				

	461 May 25 j 23:26	0°♄		evening rise	462 Apr 14 j 19:36	3°♄49'35	
evening max el	461 May 26 j 10:17	0°♄26'22	24°55'26		462 Apr 29 j 01:42	0°♄	
desc. node	461 Jun 01 j 02:43	4°♄56'05		evening max el	462 May 08 j 00:28	11°♄01'10	23°21'36
retrograde	461 Jun 09 j 09:49	7°♄32'23		desc. node	462 May 18 j 23:43	17°♄32'20	
evening set	461 Jun 14 j 14:46	6°♄30'29		retrograde	462 May 21 j 14:03	17°♄47'41	
min. Earth dist.	461 Jun 19 j 21:42	3°♄41'28	0.57369 AU	evening set	462 May 25 j 07:34	17°♄17'05	
inferior conj	461 Jun 22 j 21:33	1°♄42'15	-4°40'51	min. Earth dist.	462 Jun 01 j 10:32	14°♄02'05	0.55823 AU
minimum elong	461 Jun 22 j 18:33	1°♄47'16	4°40'37	inferior conj	462 Jun 03 j 09:13	12°♄53'05	-3°53'33
	461 Jun 25 j 13:08	30°♄		minimum elong	462 Jun 03 j 02:12	13°♄03'29	3°52'00
morning rise	461 Jul 01 j 01:05	27°♄32'51		morning rise	462 Jun 11 j 23:33	8°♄57'55	
direct	461 Jul 03 j 15:06	27°♄13'36		direct	462 Jun 14 j 16:43	8°♄39'54	
	461 Jul 10 j 22:24	0°♄		morning max el	462 Jun 25 j 05:12	13°♄31'50	20°18'45
morning max el	461 Jul 12 j 14:12	1°♄24'34	19°11'14	asc. node	462 Jul 06 j 15:07	29°♄16'54	
asc. node	461 Jul 19 j 18:05	10°♄31'15			462 Jul 07 j 00:45	0°♄	
morning set	461 Jul 29 j 13:02	28°♄27'41		morning set	462 Jul 13 j 17:53	13°♄01'59	
	461 Jul 30 j 07:38	0°♄					
superior conj	461 Aug 06 j 19:13	14°♄47'29	1°46'15	superior conj	462 Jul 21 j 10:10	28°♄45'43	1°45'20
minimum elong	461 Aug 06 j 19:58	14°♄51'07	1°46'14	minimum elong	462 Jul 21 j 09:14	28°♄41'02	1°45'19
max. Earth dist.	461 Aug 13 j 07:32	27°♄02'04	1.38334 AU	max. Earth dist.	462 Jul 22 j 00:54	0°♄	
	461 Aug 14 j 23:00	0°♄		evening rise	462 Jul 26 j 12:55	8°♄51'52	1.36436 AU
evening rise	461 Aug 17 j 02:42	3°♄48'17			462 Jul 30 j 12:02	16°♄19'08	
desc. node	461 Aug 28 j 02:02	21°♄53'15			462 Aug 07 j 07:30	0°♄	
	461 Sep 02 j 10:53	0°♄		desc. node	462 Aug 14 j 23:03	12°♄09'57	
evening max el	461 Sep 21 j 18:59	24°♄33'58	24°49'16	evening max el	462 Aug 27 j 21:33	0°♄	
	461 Sep 28 j 17:24	0°♄			462 Sep 04 j 06:30	8°♄11'10	25°59'07
retrograde	461 Oct 03 j 09:26	1°♄19'10		retrograde	462 Sep 16 j 18:03	15°♄17'45	
	461 Oct 07 j 14:52	30°♄		evening set	462 Sep 22 j 23:27	12°♄41'19	
evening set	461 Oct 09 j 00:33	28°♄56'46		min. Earth dist.	462 Sep 27 j 05:26	8°♄05'29	0.66643 AU
min. Earth dist.	461 Oct 13 j 14:19	23°♄45'01	0.67322 AU	inferior conj	462 Sep 28 j 13:43	6°♄24'08	-1°22'13
inferior conj	461 Oct 14 j 11:27	22°♄35'04	-0°25'46	minimum elong	462 Sep 28 j 15:49	6°♄17'31	1°21'21
minimum elong	461 Oct 14 j 12:05	22°♄32'57	0°25'30	asc. node	462 Oct 02 j 14:19	1°♄51'47	
asc. node	461 Oct 15 j 17:17	20°♄57'33		morning rise	462 Oct 04 j 08:31	0°♄31'33	
morning rise	461 Oct 19 j 23:44	16°♄33'25			462 Oct 05 j 09:15	30°♄	
direct	461 Oct 23 j 14:28	15°♄18'11		direct	462 Oct 07 j 12:50	29°♄33'28	
morning max el	461 Oct 31 j 03:57	19°♄37'51	19°56'59		462 Oct 09 j 17:49	0°♄	
	461 Nov 08 j 11:41	0°♄		morning max el	462 Oct 14 j 11:17	3°♄26'36	19°00'56
desc. node	461 Nov 24 j 01:17	23°♄13'52			462 Nov 02 j 02:47	0°♄	
morning set	461 Nov 26 j 10:02	26°♄52'35		morning set	462 Nov 05 j 18:20	5°♄43'11	
	461 Nov 28 j 10:26	0°♄		desc. node	462 Nov 10 j 22:19	13°♄49'20	
max. Earth dist.	461 Dec 07 j 21:11	14°♄51'01	1.44002 AU	max. Earth dist.	462 Nov 20 j 13:01	28°♄54'36	1.44877 AU
					462 Nov 21 j 05:37	0°♄	
superior conj	461 Dec 12 j 23:04	23°♄01'40	-1°45'10	superior conj	462 Nov 22 j 08:09	1°♄44'39	-1°10'40
minimum elong	461 Dec 12 j 16:04	22°♄33'13	1°44'38	minimum elong	462 Nov 22 j 00:05	1°♄12'48	1°09'46
	461 Dec 17 j 05:00	0°♄		evening rise	462 Dec 07 j 11:09	25°♄59'30	
evening rise	461 Dec 26 j 05:28	15°♄13'09			462 Dec 09 j 22:05	0°♄	
	462 Jan 03 j 22:28	0°♄		evening max el	462 Dec 27 j 20:17	26°♄35'48	18°38'45
asc. node	462 Jan 11 j 16:37	11°♄22'08		asc. node	462 Dec 29 j 13:38	28°♄11'04	
evening max el	462 Jan 13 j 08:33	13°♄12'13	18°14'04		463 Jan 01 j 16:35	0°♄	
retrograde	462 Jan 19 j 20:06	16°♄40'23		retrograde	463 Jan 03 j 11:56	0°♄18'02	
evening set	462 Jan 22 j 17:29	15°♄56'46			463 Jan 05 j 06:45	30°♄	
inferior conj	462 Jan 28 j 20:31	10°♄37'36	3°47'44	evening set	463 Jan 06 j 14:39	29°♄23'22	
minimum elong	462 Jan 28 j 19:47	10°♄39'38	3°47'41	inferior conj	463 Jan 12 j 09:47	23°♄46'13	3°33'45
min. Earth dist.	462 Jan 31 j 09:46	7°♄50'55	0.63237 AU	minimum elong	463 Jan 12 j 07:42	23°♄52'26	3°33'27
morning rise	462 Feb 03 j 21:13	4°♄35'56		min. Earth dist.	463 Jan 14 j 07:40	21°♄28'40	0.64893 AU
direct	462 Feb 10 j 20:42	1°♄52'09		morning rise	463 Jan 18 j 00:19	17°♄38'21	
desc. node	462 Feb 20 j 00:29	5°♄37'36		direct	463 Jan 24 j 18:38	14°♄45'57	
morning max el	462 Feb 24 j 17:16	9°♄45'24	27°43'21	desc. node	463 Feb 06 j 21:30	22°♄18'57	
	462 Mar 12 j 12:54	0°♄		morning max el	463 Feb 07 j 02:42	22°♄31'53	27°08'47
	462 Mar 29 j 18:18	0°♄			463 Feb 13 j 17:18	0°♄	
morning set	462 Mar 31 j 01:51	2°♄36'39			463 Mar 05 j 18:27	0°♄	
max. Earth dist.	462 Apr 05 j 09:47	13°♄37'09	1.32979 AU	morning set	463 Mar 14 j 15:59	16°♄18'05	
				max. Earth dist.	463 Mar 19 j 06:42	25°♄28'52	1.33948 AU
superior conj	462 Apr 07 j 18:06	18°♄38'01	-0°20'04		463 Mar 21 j 11:20	0°♄	
minimum elong	462 Apr 07 j 19:03	18°♄43'13	0°19'50				
asc. node	462 Apr 09 j 15:55	22°♄45'20		superior conj	463 Mar 22 j 21:37	2°♄59'14	-0°47'12
	462 Apr 13 j 00:28	0°♄		minimum elong	463 Mar 22 j 23:55	3°♄11'17	0°46'44

asc. node	463 Mar 27 j 12:57	12°♈48'44		464 Mar 12 j 02:33	0°♈	
evening rise	463 Mar 30 j 06:10	18°♈32'32		464 Mar 13 j 09:59	2°♈41'54	
	463 Apr 04 j 23:10	0°♈		evening rise	464 Mar 13 j 13:36	3°♈00'27
evening max el	463 Apr 19 j 18:58	21°♈40'14	21°47'55		464 Mar 29 j 08:43	0°♈
retrograde	463 May 02 j 06:40	27°♈46'41		evening max el	464 Mar 31 j 23:22	2°♈48'22 20°25'51
evening set	463 May 04 j 20:20	27°♈31'54		retrograde	464 Apr 11 j 19:48	8°♈02'09
desc. node	463 May 05 j 20:44	27°♈18'17		evening set	464 Apr 13 j 22:30	7°♈51'06
inferior conj	463 May 14 j 06:20	23°♈28'36	-2°21'05	desc. node	464 Apr 21 j 17:46	4°♈39'04
minimum elong	463 May 14 j 00:05	23°♈37'22	2°19'02	inferior conj	464 Apr 23 j 01:22	3°♈53'25 -0°22'46
min. Earth dist.	463 May 13 j 23:11	23°♈38'37	0.55027 AU	minimum elong	464 Apr 23 j 00:18	3°♈54'59 0°22'23
morning rise	463 May 23 j 04:53	19°♈32'29		min. Earth dist.	464 Apr 24 j 12:27	3°♈02'20 0.55178 AU
direct	463 May 26 j 05:11	19°♈12'25			464 Apr 30 j 19:21	30°♈♈
morning max el	463 Jun 07 j 08:59	24°♈55'48	21°45'10	morning rise	464 May 02 j 00:47	29°♈37'58
	463 Jun 12 j 00:16	0°♈		direct	464 May 05 j 17:00	29°♈08'42
asc. node	463 Jun 23 j 12:11	18°♈33'11			464 May 10 j 11:45	0°♈
morning set	463 Jun 28 j 02:55	27°♈50'12		morning max el	464 May 19 j 03:33	5°♈42'03 23°24'14
	463 Jun 29 j 03:49	0°♈			464 Jun 05 j 04:46	0°♈
				asc. node	464 Jun 09 j 09:14	8°♈11'51
superior conj	463 Jul 05 j 10:09	13°♈11'56	1°37'30	morning set	464 Jun 11 j 14:16	12°♈46'20
minimum elong	463 Jul 05 j 08:10	13°♈01'32	1°37'21			
max. Earth dist.	463 Jul 09 j 02:13	20°♈45'50	1.34847 AU	superior conj	464 Jun 18 j 16:12	27°♈56'29 1°24'12
evening rise	463 Jul 13 j 14:38	29°♈41'22		minimum elong	464 Jun 18 j 13:45	27°♈43'22 1°23'53
	463 Jul 13 j 18:31	0°♈			464 Jun 19 j 15:18	0°♈
	463 Jul 31 j 10:02	0°♈		max. Earth dist.	464 Jun 21 j 01:19	3°♈00'37 1.33641 AU
desc. node	463 Aug 01 j 20:04	2°♈05'11		evening rise	464 Jun 26 j 05:55	13°♈41'29
evening max el	463 Aug 17 j 18:34	21°♈45'10	26°52'28		464 Jul 04 j 22:47	0°♈
retrograde	463 Aug 30 j 21:25	29°♈01'55		desc. node	464 Jul 18 j 17:05	21°♈29'18
evening set	463 Sep 06 j 15:27	26°♈17'36			464 Jul 25 j 10:52	0°♈
min. Earth dist.	463 Sep 10 j 14:17	22°♈18'43	0.65619 AU	evening max el	464 Jul 30 j 06:12	5°♈04'22 27°21'52
inferior conj	463 Sep 12 j 10:41	20°♈09'11	-2°18'40	retrograde	464 Aug 12 j 18:51	12°♈23'11
minimum elong	463 Sep 12 j 14:13	19°♈58'50	2°17'20	evening set	464 Aug 19 j 21:43	9°♈40'11
morning rise	463 Sep 18 j 13:35	14°♈28'46		min. Earth dist.	464 Aug 23 j 14:33	6°♈16'46 0.64240 AU
asc. node	463 Sep 19 j 11:21	14°♈04'53		inferior conj	464 Aug 25 j 23:56	3°♈44'27 -3°12'36
direct	463 Sep 21 j 09:54	13°♈44'01		minimum elong	464 Aug 26 j 04:34	3°♈32'07 3°11'08
morning max el	463 Sep 27 j 23:59	17°♈19'47	18°21'00		464 Aug 29 j 20:44	30°♈♈
	463 Oct 07 j 08:33	0°♈		morning rise	464 Sep 01 j 12:19	28°♈19'40
morning set	463 Oct 17 j 06:00	15°♈57'08		direct	464 Sep 04 j 03:08	27°♈44'46
	463 Oct 25 j 23:00	0°♈		asc. node	464 Sep 05 j 08:26	27°♈52'28
desc. node	463 Oct 28 j 19:21	4°♈32'08			464 Sep 09 j 08:18	0°♈
				morning max el	464 Sep 10 j 15:29	1°♈11'29 17°58'08
superior conj	463 Nov 01 j 09:03	10°♈11'06	-0°23'26	morning set	464 Sep 27 j 21:23	27°♈31'36
minimum elong	463 Nov 01 j 05:59	9°♈59'00	0°23'01		464 Sep 29 j 08:15	0°♈
max. Earth dist.	463 Nov 03 j 07:41	13°♈14'45	1.45031 AU			
	463 Nov 14 j 00:13	0°♈		superior conj	464 Oct 10 j 23:22	19°♈20'16 0°24'32
evening rise	463 Nov 17 j 17:13	5°♈48'36		minimum elong	464 Oct 11 j 02:07	19°♈31'23 0°24'09
greatest brilliancy	463 Nov 28 j 14:28	22°♈47'45	-0.8m	desc. node	464 Oct 14 j 16:23	25°♈18'22
	463 Dec 03 j 09:30	0°♈		max. Earth dist.	464 Oct 16 j 02:07	27°♈32'43 1.44452 AU
evening max el	463 Dec 11 j 05:03	10°♈03'40	19°20'35		464 Oct 17 j 15:17	0°♈
asc. node	463 Dec 16 j 10:39	13°♈49'43		evening rise	464 Oct 27 j 04:59	14°♈55'17
retrograde	463 Dec 18 j 08:00	14°♈09'29			464 Nov 06 j 02:27	0°♈
evening set	463 Dec 21 j 17:28	13°♈02'11		evening max el	464 Nov 23 j 08:59	23°♈32'25 20°17'40
inferior conj	463 Dec 27 j 07:10	7°♈09'26	3°07'07	retrograde	464 Dec 01 j 05:42	28°♈09'55
minimum elong	463 Dec 27 j 04:29	7°♈18'05	3°06'29	asc. node	464 Dec 02 j 07:42	28°♈03'15
min. Earth dist.	463 Dec 28 j 14:17	5°♈29'18	0.66164 AU	evening set	464 Dec 04 j 23:41	26°♈48'18
morning rise	464 Jan 01 j 15:15	0°♈58'00		inferior conj	464 Dec 10 j 09:58	20°♈42'41 2°31'02
	464 Jan 02 j 19:48	30°♈♈		minimum elong	464 Dec 10 j 07:16	20°♈51'46 2°30'12
direct	464 Jan 07 j 22:39	28°♈10'51		min. Earth dist.	464 Dec 11 j 03:48	19°♈42'31 0.67036 AU
	464 Jan 13 j 15:47	0°♈		morning rise	464 Dec 15 j 14:42	14°♈29'35
morning max el	464 Jan 20 j 12:03	5°♈36'28	26°06'58	direct	464 Dec 21 j 07:58	11°♈57'43
desc. node	464 Jan 24 j 18:34	10°♈16'21		morning max el	465 Jan 01 j 20:36	18°♈49'46 24°47'18
	464 Feb 08 j 07:35	0°♈		desc. node	465 Jan 10 j 15:37	29°♈07'18
morning set	464 Feb 25 j 16:57	29°♈15'39			465 Jan 11 j 07:45	0°♈
	464 Feb 26 j 02:28	0°♈			465 Jan 31 j 09:55	0°♈
max. Earth dist.	464 Feb 29 j 16:01	6°♈47'20	1.35379 AU	morning set	465 Feb 06 j 23:27	11°♈14'30
				max. Earth dist.	465 Feb 10 j 15:19	17°♈50'39 1.37220 AU
superior conj	464 Mar 05 j 18:08	16°♈54'38	-1°13'24			
minimum elong	464 Mar 05 j 21:34	17°♈12'06	1°12'50	superior conj	465 Feb 17 j 04:31	0°♈15'37 -1°36'42

minimum elong	465 Feb 17 j 08:29	0° H 35'00	1°36'15	minimum elong	466 Jan 31 j 03:54	13° \approx 05'44	1°54'11
	465 Feb 17 j 01:19	0° H		evening rise	466 Feb 09 j 09:36	0° H 43'40	
evening rise	465 Feb 25 j 15:41	17° H 06'58			466 Feb 09 j 00:33	0° H	
asc. node	465 Feb 28 j 07:02	22° H 20'08		asc. node	466 Feb 15 j 04:06	11° H 37'00	
	465 Mar 04 j 08:46	0° Y		evening max el	466 Feb 25 j 16:31	26° H 56'54	18°37'14
evening max el	465 Mar 14 j 15:08	14° Y 35'07	19°21'36		466 Mar 01 j 23:58	0° Y	
retrograde	465 Mar 23 j 19:04	18° Y 59'50		retrograde	466 Mar 05 j 12:11	0° Y 45'59	
evening set	465 Mar 25 j 22:48	18° Y 46'16		evening set	466 Mar 07 j 20:59	0° Y 26'14	
inferior conj	465 Apr 03 j 08:28	14° Y 38'21	1°27'28		466 Mar 09 j 03:51	30° R H	
minimum elong	465 Apr 03 j 11:49	14° Y 32'50	1°26'22	inferior conj	466 Mar 15 j 11:34	26° H 00'12	2°46'53
min. Earth dist.	465 Apr 06 j 03:10	12° Y 49'10	0.56239 AU	minimum elong	466 Mar 15 j 15:45	25° H 52'10	2°45'53
desc. node	465 Apr 08 j 14:49	11° Y 20'25		min. Earth dist.	466 Mar 18 j 20:53	23° H 25'08	0.57979 AU
morning rise	465 Apr 11 j 22:04	9° Y 50'38		morning rise	466 Mar 23 j 07:37	20° H 40'36	
direct	465 Apr 16 j 14:40	9° Y 00'23		desc. node	466 Mar 26 j 11:51	19° H 33'54	
morning max el	465 Apr 30 j 18:16	16° Y 11'49	25°04'10	direct	466 Mar 29 j 02:16	19° H 16'45	
	465 May 11 j 21:38	0° B		morning max el	466 Apr 12 j 11:01	26° H 52'10	26°29'33
morning set	465 May 27 j 02:15	27° B 45'06			466 Apr 15 j 10:55	0° Y	
asc. node	465 May 27 j 06:19	28° B 06'30			466 May 05 j 05:21	0° B	
	465 May 28 j 03:42	0° II		morning set	466 May 11 j 13:09	12° B 39'28	
				asc. node	466 May 14 j 03:23	18° B 10'51	
superior conj	465 Jun 03 j 02:02	12° II 52'06	1°06'31				
minimum elong	465 Jun 02 j 23:40	12° II 39'12	1°06'07	superior conj	466 May 18 j 13:36	27° B 50'58	0°45'20
max. Earth dist.	465 Jun 04 j 08:22	15° II 37'07	1.32823 AU	minimum elong	466 May 18 j 11:45	27° B 40'52	0°44'57
evening rise	465 Jun 10 j 06:13	28° II 08'30		max. Earth dist.	466 May 18 j 19:56	28° B 25'45	1.32381 AU
	465 Jun 11 j 04:06	0° E			466 May 19 j 13:06	0° II	
	465 Jun 28 j 04:25	0° O		evening rise	466 May 25 j 12:30	12° II 51'54	
desc. node	465 Jul 05 j 14:07	10° O 09'18			466 Jun 03 j 07:00	0° E	
evening max el	465 Jul 12 j 15:07	17° O 55'28	27°21'21	desc. node	466 Jun 22 j 11:09	27° E 46'00	
retrograde	465 Jul 26 j 09:55	25° O 12'59			466 Jun 24 j 16:12	0° O	
evening set	465 Aug 02 j 14:44	22° O 43'34		evening max el	466 Jun 24 j 18:44	0° O 06'02	26°47'59
min. Earth dist.	465 Aug 06 j 04:37	19° O 49'12	0.62519 AU	retrograde	466 Jul 08 j 17:53	7° O 21'27	
inferior conj	465 Aug 09 j 02:35	17° O 03'32	-4°00'09	evening set	466 Jul 15 j 14:03	5° O 19'31	
minimum elong	465 Aug 09 j 07:26	16° O 51'59	3°59'02	min. Earth dist.	466 Jul 19 j 08:27	2° O 41'00	0.60529 AU
morning rise	465 Aug 16 j 01:29	11° O 57'50		inferior conj	466 Jul 22 j 15:13	29° E 57'26	-4°35'16
direct	465 Aug 18 j 13:15	11° O 29'53		minimum elong	466 Jul 22 j 18:40	29° E 50'14	4°34'51
asc. node	465 Aug 23 j 05:30	13° O 10'47			466 Jul 22 j 13:59	30° R E	
morning max el	465 Aug 25 j 06:59	14° O 55'50	17°53'14	morning rise	466 Jul 30 j 01:10	25° E 13'31	
	465 Sep 04 j 17:14	0° M		direct	466 Aug 01 j 12:14	24° E 50'13	
morning set	465 Sep 10 j 10:55	10° M 09'33		morning max el	466 Aug 08 j 19:26	28° E 24'51	18°07'26
				asc. node	466 Aug 10 j 02:34	29° E 45'48	
superior conj	465 Sep 21 j 15:55	29° M 47'43	1°03'09		466 Aug 10 j 07:37	0° O	
minimum elong	465 Sep 21 j 20:48	0° A 08'27	1°02'34	morning set	466 Aug 24 j 16:47	23° O 34'31	
	465 Sep 21 j 18:48	0° A			466 Aug 28 j 03:16	0° M	
max. Earth dist.	465 Sep 28 j 16:52	11° A 28'59	1.43218 AU				
desc. node	465 Oct 01 j 13:24	16° A 05'05		superior conj	466 Sep 03 j 10:55	11° M 33'37	1°29'02
evening rise	465 Oct 06 j 12:57	23° A 56'30		minimum elong	466 Sep 03 j 14:53	11° M 51'22	1°28'41
	465 Oct 10 j 11:09	0° M		max. Earth dist.	466 Sep 11 j 01:56	24° M 47'47	1.41488 AU
	465 Oct 31 j 07:21	0° J			466 Sep 14 j 05:06	0° A	
evening max el	465 Nov 06 j 07:07	7° J 01'02	21°27'06	evening rise	466 Sep 16 j 10:35	3° A 37'32	
retrograde	465 Nov 15 j 02:54	12° J 15'57		desc. node	466 Sep 18 j 10:27	6° A 49'09	
evening set	465 Nov 19 j 07:20	10° J 38'18			466 Oct 03 j 19:40	0° M	
asc. node	465 Nov 19 j 04:46	10° J 43'17		evening max el	466 Oct 19 j 23:51	20° M 31'11	22°44'43
inferior conj	465 Nov 24 j 15:55	4° J 23'13	1°47'45	retrograde	466 Oct 29 j 21:59	26° M 24'56	
minimum elong	465 Nov 24 j 13:43	4° J 30'51	1°46'56	evening set	466 Nov 03 j 14:43	24° M 30'03	
min. Earth dist.	465 Nov 24 j 22:02	4° J 02'08	0.67540 AU	asc. node	466 Nov 06 j 01:48	21° M 58'25	
	465 Nov 28 j 00:44	30° R M		inferior conj	466 Nov 08 j 23:07	18° M 09'16	0°58'56
morning rise	465 Nov 29 j 19:57	28° M 10'14		minimum elong	466 Nov 08 j 21:47	18° M 13'52	0°58'23
direct	465 Dec 04 j 21:56	25° M 59'11		min. Earth dist.	466 Nov 08 j 18:32	18° M 25'06	0.67706 AU
	465 Dec 12 j 23:39	0° J		morning rise	466 Nov 14 j 04:45	11° M 58'33	
morning max el	465 Dec 15 j 05:41	2° J 07'37	23°19'41	direct	466 Nov 18 j 15:57	10° M 10'04	
desc. node	465 Dec 28 j 12:38	18° J 36'09		morning max el	466 Nov 27 j 18:30	15° M 31'53	21°53'30
	466 Jan 05 j 09:19	0° B			466 Dec 09 j 10:11	0° J	
morning set	466 Jan 19 j 05:09	21° B 57'31		desc. node	466 Dec 15 j 09:40	8° J 32'23	
max. Earth dist.	466 Jan 23 j 10:28	29° B 10'47	1.39314 AU		466 Dec 29 j 10:35	0° B	
	466 Jan 23 j 21:45	0° \approx		morning set	466 Dec 30 j 05:39	1° B 16'09	
				max. Earth dist.	467 Jan 05 j 08:48	11° B 16'53	1.41404 AU
superior conj	466 Jan 31 j 00:39	12° \approx 50'39	-1°54'22				

superior conj	467 Jan 13 j 01:30	24°  27'47	-2°02'35	max. Earth dist.	467 Dec 18 j 14:38	24°  18'12	1.43204 AU
minimum elong	467 Jan 13 j 01:59	24°  29'57	2°02'35		467 Dec 22 j 02:34	0° 	
	467 Jan 16 j 04:11	0° 					
evening rise	467 Jan 23 j 15:55	13°  42'45		superior conj	467 Dec 25 j 01:44	4°  54'43	-1°56'40
	467 Feb 01 j 18:53	0° 		minimum elong	467 Dec 24 j 21:27	4°  36'49	1°56'27
asc. node	467 Feb 02 j 01:09	0°  25'31		evening rise	468 Jan 06 j 06:33	25°  55'19	
evening max el	467 Feb 09 j 00:40	9°  46'24	18°12'57		468 Jan 08 j 14:04	0° 	
retrograde	467 Feb 15 j 23:25	13°  15'46		asc. node	468 Jan 19 j 22:09	18°  36'20	
evening set	467 Feb 18 j 13:28	12°  47'36		evening max el	468 Jan 23 j 12:24	22°  54'12	18°08'15
inferior conj	467 Feb 25 j 11:26	8°  00'48	3°31'46	retrograde	468 Jan 30 j 01:09	26°  18'47	
minimum elong	467 Feb 25 j 13:58	7°  55'06	3°31'26	evening set	468 Feb 01 j 19:57	25°  40'57	
min. Earth dist.	467 Feb 28 j 19:53	5°  02'17	0.60059 AU	inferior conj	468 Feb 08 j 04:53	20°  33'14	3°48'12
morning rise	467 Mar 04 j 12:23	2°  18'39		minimum elong	468 Feb 08 j 05:13	20°  32'21	3°48'12
direct	467 Mar 11 j 02:32	0°  16'54		min. Earth dist.	468 Feb 11 j 02:31	17°  36'19	0.62142 AU
desc. node	467 Mar 13 j 08:53	0°  30'41		morning rise	468 Feb 14 j 13:19	14°  37'16	
morning max el	467 Mar 25 j 09:18	8°  04'51	27°26'38	direct	468 Feb 21 j 12:27	12°  04'58	
	467 Apr 11 j 01:06	0° 		desc. node	468 Feb 28 j 05:53	14°  07'35	
morning set	467 Apr 25 j 21:13	27°  09'23'27		morning max el	468 Mar 06 j 13:26	19°  57'35	27°47'55
	467 Apr 27 j 03:10	0° 			468 Mar 15 j 04:04	0° 	
asc. node	467 May 01 j 00:25	8°  20'27			468 Apr 02 j 22:51	0° 	
max. Earth dist.	467 May 02 j 08:23	11°  15'04	1.32310 AU	morning set	468 Apr 09 j 00:26	11°  09'50'00	
				max. Earth dist.	468 Apr 14 j 17:59	23°  09'52'10	1.32617 AU
superior conj	467 May 03 j 01:12	12°  47'15	0°21'23	superior conj	468 Apr 16 j 11:08	27°  09'34'54	-0°04'34
minimum elong	467 May 03 j 00:15	12°  42'02	0°21'11	minimum elong	468 Apr 16 j 11:21	27°  09'36'05	0°04'31
evening rise	467 May 09 j 22:28	27°  44'06		behind sun begin	468 Apr 16 j 06:24	27°  09'09'09	
	467 May 11 j 00:22	0° 		behind sun end	468 Apr 16 j 16:19	28°  09'03'02	
	467 May 28 j 00:01	0° 		asc. node	468 Apr 16 j 21:29	28°  09'31'08	
evening max el	467 Jun 06 j 15:36	11°  31'12	25°43'32		468 Apr 17 j 13:48	0° 	
desc. node	467 Jun 09 j 08:11	13°  53'22		evening rise	468 Apr 23 j 10:07	12°  08'38'08	
retrograde	467 Jun 20 j 16:45	18°  42'19			468 May 02 j 05:50	0° 	
evening set	467 Jun 26 j 15:16	17°  48'20		evening max el	468 May 18 j 07:03	22°  09'18'59	24°16'33
min. Earth dist.	467 Jul 01 j 04:00	14°  37'45	0.58471 AU	desc. node	468 May 26 j 05:11	27°  09'57'45	
inferior conj	467 Jul 04 j 10:15	12°  46'42	-4°48'21	retrograde	468 Jun 01 j 03:54	29°  09'18'12	
minimum elong	467 Jul 04 j 10:05	12°  46'17'00	4°48'22	evening set	468 Jun 05 j 17:49	28°  09'31'29	
morning rise	467 Jul 12 j 07:21	7°  55'06		min. Earth dist.	468 Jun 11 j 18:15	25°  09'32'50	0.56641 AU
direct	467 Jul 14 j 19:45	7°  53'46		inferior conj	468 Jun 14 j 09:18	23°  09'53'44	-4°26'34
morning max el	467 Jul 23 j 01:40	11°  48'29'09	18°41'51	minimum elong	468 Jun 14 j 04:16	24°  09'01'42	4°25'50
asc. node	467 Jul 27 j 23:37	17°  48'22'05		morning rise	468 Jun 22 j 17:28	19°  09'51'19	
	467 Aug 04 j 11:31	0° 		direct	468 Jun 25 j 08:45	19°  09'32'42	
morning set	467 Aug 08 j 10:12	7°  48'33'34		morning max el	468 Jul 04 j 22:48	23°  09'59'41	19°37'20
					468 Jul 10 j 02:27	0° 	
superior conj	467 Aug 17 j 03:12	24°  48'22'50	1°42'54	asc. node	468 Jul 13 j 20:40	5°  46'08	
minimum elong	467 Aug 17 j 05:08	24°  48'31'56	1°42'49	morning set	468 Jul 22 j 11:44	21°  46'57'53	
	467 Aug 20 j 03:41	0° 			468 Jul 26 j 11:14	0° 	
max. Earth dist.	467 Aug 24 j 06:09	7°  48'22'57	1.39499 AU				
evening rise	467 Aug 28 j 07:48	14°  48'24'55		superior conj	468 Jul 30 j 11:17	8°  48'00'13	1°46'49
desc. node	467 Sep 05 j 07:28	27°  48'26'28		minimum elong	468 Jul 30 j 11:15	8°  48'00'04	1°46'49
	467 Sep 06 j 22:52	0° 		max. Earth dist.	468 Aug 05 j 09:55	19°  48'25'14	1.37505 AU
	467 Sep 28 j 17:54	0° 		evening rise	468 Aug 09 j 05:08	26°  48'21'16	
evening max el	467 Oct 02 j 12:59	4°  48'04'41	24°04'52		468 Aug 11 j 06:43	0° 	
retrograde	467 Oct 13 j 13:32	10°  48'33'12		desc. node	468 Aug 22 j 04:31	17°  48'52'42	
evening set	467 Oct 18 j 20:10	8°  48'20'45			468 Aug 30 j 11:03	0° 	
min. Earth dist.	467 Oct 23 j 14:51	2°  48'48'51	0.67555 AU	evening max el	468 Sep 14 j 00:49	17°  48'42'20	25°20'31
asc. node	467 Oct 23 j 22:50	2°  48'21'53		retrograde	468 Sep 26 j 00:45	24°  48'37'11	
inferior conj	467 Oct 24 j 05:47	1°  48'58'18	0°06'01	evening set	468 Oct 01 j 22:01	22°  48'08'32	
minimum elong	467 Oct 24 j 05:38	1°  48'58'48	0°05'56	min. Earth dist.	468 Oct 06 j 08:31	17°  48'11'47	0.67081 AU
transit middle	467 Oct 24 j 05:38	1°  48'58'48	0°05'56	inferior conj	468 Oct 07 j 10:12	15°  48'48'27	-0°49'35
transit begin	467 Oct 24 j 03:06	2°  48'07'24		minimum elong	468 Oct 07 j 11:28	15°  48'44'23	0°49'03
transit end	467 Oct 24 j 08:11	1°  48'50'13		asc. node	468 Oct 09 j 19:50	12°  48'49'08	
	467 Oct 25 j 17:19	30°  48'09'42		morning rise	468 Oct 13 j 01:03	9°  48'50'12	
morning rise	467 Oct 29 j 15:05	25°  48'52'23		direct	468 Oct 16 j 11:12	8°  48'42'30	
direct	467 Nov 02 j 12:48	24°  48'25'35		morning max el	468 Oct 23 j 17:14	12°  48'49'19	19°31'11
morning max el	467 Nov 10 j 13:58	29°  48'05'15	20°35'49		468 Nov 05 j 13:50	0° 	
	467 Nov 11 j 11:00	0° 		greatest brilliancy	468 Nov 06 j 23:39	2°  48'07'21	-0.7m
desc. node	467 Dec 02 j 06:41	28°  48'47'56		morning set	468 Nov 17 j 04:57	17°  48'49'15	
	467 Dec 03 j 01:42	0° 		desc. node	468 Nov 18 j 03:45	19°  48'17'37	
morning set	467 Dec 09 j 06:25	9°  48'31'09					

	468 Nov 25 j 00:36	0°♊			469 Oct 29 j 17:58	0°♍	
max. Earth dist.	468 Nov 30 j 04:07	8°♊06'19	1.44468 AU	desc. node	469 Nov 05 j 00:49	9°♍56'43	
superior conj	468 Dec 03 j 23:24	14°♊09'48	-1°32'39	superior conj	469 Nov 13 j 02:22	22°♍37'56	-0°51'31
minimum elong	468 Dec 03 j 15:10	13°♊36'50	1°31'53	minimum elong	469 Nov 12 j 19:51	22°♍12'21	0°50'42
	468 Dec 13 j 16:55	0°♋		max. Earth dist.	469 Nov 12 j 22:04	22°♍21'05	1.45037 AU
evening rise	468 Dec 18 j 01:19	7°♋14'49			469 Nov 17 j 18:43	0°♊	
	469 Jan 01 j 01:36	0°♌		evening rise	469 Nov 28 j 20:55	17°♊36'38	
asc. node	469 Jan 05 j 19:09	5°♌58'46		greatest brilliancy	469 Dec 06 j 07:38	29°♊31'33	-0.9m
evening max el	469 Jan 06 j 00:52	6°♌13'28	18°22'24		469 Dec 06 j 14:48	0°♋	
retrograde	469 Jan 12 j 13:03	9°♌46'04		evening max el	469 Dec 20 j 11:34	19°♋39'04	18°54'30
evening set	469 Jan 15 j 12:41	8°♌57'42		asc. node	469 Dec 23 j 16:10	22°♋19'44	
inferior conj	469 Jan 21 j 11:59	3°♌30'27	3°43'34	retrograde	469 Dec 27 j 07:12	23°♋30'28	
minimum elong	469 Jan 21 j 10:35	3°♌34'26	3°43'27	evening set	469 Dec 30 j 12:35	22°♋30'32	
min. Earth dist.	469 Jan 23 j 18:39	0°♌55'01	0.63990 AU	inferior conj	470 Jan 05 j 05:06	16°♋46'07	3°23'46
	469 Jan 24 j 14:55	30°♌♋		minimum elong	470 Jan 05 j 02:41	16°♋53'37	3°23'20
morning rise	469 Jan 27 j 07:54	27°♋25'58		min. Earth dist.	470 Jan 06 j 20:26	14°♋44'07	0.65479 AU
direct	469 Feb 03 j 06:06	24°♋36'56		morning rise	470 Jan 10 j 16:28	10°♋36'22	
desc. node	469 Feb 14 j 02:55	29°♋51'42		direct	470 Jan 17 j 06:31	7°♋45'03	
	469 Feb 14 j 06:45	0°♌		morning max el	470 Jan 30 j 07:40	15°♋24'04	26°45'26
morning max el	469 Feb 16 j 21:46	2°♌27'28	27°32'35	desc. node	470 Jan 31 j 23:58	17°♋08'47	
	469 Mar 09 j 10:55	0°♍			470 Feb 11 j 08:21	0°♌	
morning set	469 Mar 23 j 20:15	25°♍50'28			470 Mar 02 j 05:17	0°♍	
	469 Mar 25 j 22:06	0°♎		morning set	470 Mar 07 j 05:22	9°♍14'59	
max. Earth dist.	469 Mar 28 j 20:48	6°♎04'00	1.33336 AU	max. Earth dist.	470 Mar 11 j 13:15	17°♍42'18	1.34500 AU
superior conj	469 Mar 31 j 17:35	12°♎07'21	-0°31'35	superior conj	470 Mar 15 j 18:28	26°♍18'21	-0°58'31
minimum elong	469 Mar 31 j 19:07	12°♎15'31	0°31'15	minimum elong	470 Mar 15 j 21:18	26°♍33'00	0°58'00
asc. node	469 Apr 03 j 18:30	18°♎38'07			470 Mar 17 j 13:00	0°♎	
evening rise	469 Apr 07 j 21:38	27°♎26'55		asc. node	470 Mar 21 j 15:32	8°♎37'40	
	469 Apr 09 j 02:55	0°♏		evening rise	470 Mar 23 j 07:10	12°♎04'25	
	469 Apr 27 j 05:09	0°♐			470 Apr 01 j 15:40	0°♏	
evening max el	469 Apr 29 j 22:12	2°♐51'37	22°40'59	evening max el	470 Apr 11 j 20:17	13°♏40'00	21°11'05
retrograde	469 May 13 j 02:25	9°♐23'13		retrograde	470 Apr 23 j 16:30	19°♏25'25	
desc. node	469 May 13 j 02:11	9°♐23'13		evening set	470 Apr 25 j 23:25	19°♏13'15	
evening set	469 May 16 j 06:40	9°♐01'03		desc. node	470 Apr 29 j 23:11	17°♏59'59	
min. Earth dist.	469 May 24 j 06:25	5°♐31'51	0.55378 AU	inferior conj	470 May 05 j 08:04	15°♏14'02	-1°32'07
inferior conj	469 May 25 j 13:41	4°♐47'13	-3°19'19	minimum elong	470 May 05 j 03:44	15°♏20'08	1°30'36
minimum elong	469 May 25 j 06:15	4°♐57'51	3°17'18	min. Earth dist.	470 May 05 j 19:09	14°♏58'23	0.54967 AU
morning rise	469 Jun 03 j 08:05	0°♐54'13		morning rise	470 May 14 j 08:13	11°♏12'07	
direct	469 Jun 06 j 03:49	0°♐35'46		direct	470 May 17 j 13:45	10°♏49'31	
morning max el	469 Jun 17 j 08:56	5°♐48'14	20°53'26	morning max el	470 May 30 j 08:28	16°♏54'46	22°26'25
asc. node	469 Jun 30 j 17:43	24°♐45'55			470 Jun 09 j 16:43	0°♐	
	469 Jul 03 j 11:28	0°♑		asc. node	470 Jun 17 j 14:49	14°♐12'26	
morning set	469 Jul 06 j 18:40	6°♑39'13		morning set	470 Jun 21 j 04:55	21°♐31'27	
					470 Jun 25 j 04:59	0°♑	
superior conj	469 Jul 14 j 06:32	22°♑11'45	1°42'47	superior conj	470 Jun 28 j 09:28	6°♑46'51	1°32'28
minimum elong	469 Jul 14 j 05:05	22°♑04'17	1°42'42	minimum elong	470 Jun 28 j 07:13	6°♑34'56	1°32'14
	469 Jul 18 j 03:17	0°♒		max. Earth dist.	470 Jul 01 j 11:59	13°♑16'39	1.34283 AU
max. Earth dist.	469 Jul 18 j 18:37	1°♒15'44	1.35721 AU	evening rise	470 Jul 06 j 06:56	22°♑54'57	
evening rise	469 Jul 22 j 22:26	9°♒15'29			470 Jul 10 j 00:09	0°♒	
	469 Aug 03 j 21:06	0°♓		desc. node	470 Jul 26 j 22:33	27°♒44'26	
desc. node	469 Aug 09 j 01:33	8°♓01'17			470 Jul 28 j 13:17	0°♓	
	469 Aug 26 j 04:51	0°♔		evening max el	470 Aug 10 j 00:26	14°♓47'13	27°08'07
evening max el	469 Aug 27 j 12:37	1°♔19'07	26°24'09	retrograde	470 Aug 23 j 08:02	22°♓06'09	
retrograde	469 Sep 09 j 07:01	8°♔30'34		evening set	470 Aug 30 j 06:33	19°♓20'41	
evening set	469 Sep 15 j 18:17	5°♔49'43		min. Earth dist.	470 Sep 03 j 02:29	15°♓37'33	0.65081 AU
min. Earth dist.	469 Sep 19 j 21:09	1°♔29'49	0.66262 AU	inferior conj	470 Sep 05 j 04:29	13°♓17'07	-2°42'04
inferior conj	469 Sep 21 j 10:29	29°♓36'00	-1°46'17	minimum elong	470 Sep 05 j 08:33	13°♓05'40	2°40'37
minimum elong	469 Sep 21 j 13:13	29°♓27'40	1°45'12	morning rise	470 Sep 11 j 11:19	7°♓43'15	
	469 Sep 21 j 02:38	30°♓♓		asc. node	470 Sep 13 j 13:58	7°♓05'20	
asc. node	469 Sep 26 j 16:53	24°♓13'00		direct	470 Sep 14 j 04:55	7°♓03'14	
morning rise	469 Sep 27 j 08:35	23°♓48'25		morning max el	470 Sep 20 j 17:30	10°♓34'06	18°09'06
direct	469 Sep 30 j 09:16	22°♓56'24			470 Oct 04 j 03:27	0°♔	
morning max el	469 Oct 07 j 03:11	26°♓40'38	18°41'54	morning set	470 Oct 08 j 23:59	8°♔02'57	
	469 Oct 10 j 01:03	0°♕			470 Oct 22 j 11:31	0°♕	
morning set	469 Oct 28 j 00:06	27°♕13'41					

desc. node	470 Oct 22 j 21:51	0°♍41'09		morning max el	471 Sep 04 j 09:26	24°♌24'01	17°53'45
					471 Sep 08 j 22:26	0°♍	
superior conj	470 Oct 23 j 06:35	1°♍15'53	-0°02'26	morning set	471 Sep 21 j 01:40	20°♍07'10	
minimum elong	470 Oct 23 j 06:16	1°♍14'40	0°02'23		471 Sep 26 j 18:59	0°♌	
behind sun begin	470 Oct 22 j 19:30	0°♍31'50					
behind sun end	470 Oct 23 j 17:02	1°♍57'27		superior conj	471 Oct 03 j 07:29	10°♌57'20	0°42'23
max. Earth dist.	470 Oct 26 j 16:44	6°♍41'11	1.44868 AU	minimum elong	471 Oct 03 j 11:38	11°♌14'26	0°41'49
evening rise	470 Nov 08 j 17:58	27°♍04'01		max. Earth dist.	471 Oct 09 j 09:30	20°♌50'48	1.43998 AU
	470 Nov 10 j 15:23	0°♌		desc. node	471 Oct 09 j 18:53	21°♌28'18	
greatest brilliancy	470 Nov 21 j 14:09	16°♌47'24	-0.7m		471 Oct 15 j 04:24	0°♍	
	470 Dec 01 j 00:36	0°♌		evening rise	471 Oct 19 j 01:58	6°♍03'09	
evening max el	470 Dec 03 j 18:22	3°♌06'51	19°43'10		471 Nov 04 j 00:53	0°♌	
asc. node	470 Dec 10 j 13:14	7°♌23'35		evening max el	471 Nov 16 j 19:56	16°♌35'58	20°45'56
retrograde	470 Dec 11 j 04:21	7°♌25'49		retrograde	471 Nov 25 j 02:03	21°♌28'57	
evening set	470 Dec 14 j 17:07	6°♌12'47		asc. node	471 Nov 27 j 10:17	20°♌57'54	
inferior conj	470 Dec 20 j 05:07	0°♌14'04	2°52'49	evening set	471 Nov 29 j 00:09	20°♌00'56	
minimum elong	470 Dec 20 j 02:22	0°♌23'09	2°52'05	inferior conj	471 Dec 04 j 09:33	13°♌51'03	2°13'28
	470 Dec 20 j 09:23	30°♌♌		minimum elong	471 Dec 04 j 07:00	13°♌59'44	2°12'36
min. Earth dist.	470 Dec 21 j 06:24	28°♌50'44	0.66576 AU	min. Earth dist.	471 Dec 04 j 22:19	13°♌07'24	0.67297 AU
morning rise	470 Dec 25 j 11:24	24°♌01'25		morning rise	471 Dec 09 j 13:40	7°♌37'36	
direct	470 Dec 31 j 12:56	21°♌19'46		direct	471 Dec 15 j 00:33	5°♌13'50	
morning max el	471 Jan 12 j 16:48	28°♌33'35	25°34'39	morning max el	471 Dec 26 j 01:07	11°♌48'28	24°10'15
	471 Jan 14 j 02:06	0°♌		desc. node	472 Jan 05 j 18:05	24°♌39'51	
desc. node	471 Jan 18 j 21:02	5°♌31'06			472 Jan 09 j 15:02	0°♌	
	471 Feb 05 j 02:58	0°♌			472 Jan 28 j 21:47	0°♌	
morning set	471 Feb 17 j 23:13	21°♌49'31		morning set	472 Jan 30 j 19:53	3°♌17'45	
max. Earth dist.	471 Feb 21 j 17:43	28°♌50'10	1.36113 AU	max. Earth dist.	472 Feb 03 j 13:45	9°♌53'44	1.38095 AU
	471 Feb 22 j 08:24	0°♌					
superior conj	471 Feb 27 j 11:04	9°♌59'42	-1°23'47	superior conj	472 Feb 10 j 15:55	23°♌02'24	-1°45'07
minimum elong	471 Feb 27 j 14:50	10°♌18'34	1°23'15	minimum elong	472 Feb 10 j 19:47	23°♌20'52	1°44'45
evening rise	471 Mar 07 j 12:37	26°♌23'31			472 Feb 14 j 06:12	0°♌	
asc. node	471 Mar 08 j 12:35	28°♌24'42		evening rise	472 Feb 19 j 11:32	10°♌17'40	
	471 Mar 09 j 07:35	0°♍		asc. node	472 Feb 23 j 09:37	17°♌54'12	
evening max el	471 Mar 25 j 05:31	25°♍03'43	19°56'11		472 Mar 01 j 09:14	0°♍	
retrograde	471 Apr 04 j 08:29	29°♍55'35		evening max el	472 Mar 07 j 01:47	7°♍06'16	19°00'16
evening set	471 Apr 06 j 10:25	29°♍44'10		retrograde	472 Mar 15 j 14:27	11°♍13'18	
inferior conj	471 Apr 15 j 06:43	25°♍43'52	0°26'46	evening set	472 Mar 17 j 20:17	10°♍57'24	
minimum elong	471 Apr 15 j 07:54	25°♍42'04	0°26'21	inferior conj	472 Mar 25 j 21:46	6°♍42'42	2°05'31
desc. node	471 Apr 16 j 20:13	24°♍46'36		minimum elong	472 Mar 26 j 01:53	6°♍35'27	2°04'19
min. Earth dist.	471 Apr 17 j 09:16	24°♍26'57	0.55522 AU	min. Earth dist.	472 Mar 29 j 01:03	4°♍31'36	0.56920 AU
morning rise	471 Apr 24 j 03:09	21°♍14'59		desc. node	472 Apr 02 j 17:16	1°♍52'25	
direct	471 Apr 28 j 04:49	20°♍38'26		morning rise	472 Apr 03 j 04:28	1°♍40'44	
morning max el	471 May 12 j 00:45	27°♍30'44	24°07'34	direct	472 Apr 08 j 08:52	0°♍37'04	
	471 May 14 j 11:21	0°♌		morning max el	472 Apr 22 j 15:26	8°♍00'27	25°43'09
	471 May 02 j 13:15	0°♌			472 May 08 j 23:46	0°♌	
asc. node	471 Jun 04 j 11:53	3°♌58'08		morning set	472 May 20 j 04:24	21°♌25'39	
morning set	471 Jun 05 j 16:44	6°♌28'48		asc. node	472 May 21 j 08:56	23°♌56'57	
					472 May 24 j 04:08	0°♌	
superior conj	471 Jun 12 j 17:24	21°♌36'46	1°17'11	superior conj	472 May 27 j 04:08	6°♌34'00	0°57'54
minimum elong	471 Jun 12 j 14:56	21°♌23'25	1°16'49	minimum elong	472 May 27 j 01:57	6°♌21'59	0°57'31
max. Earth dist.	471 Jun 14 j 14:29	25°♌39'25	1.33238 AU	max. Earth dist.	472 May 27 j 23:49	8°♌21'38	1.32588 AU
	471 Jun 16 j 15:35	0°♌		evening rise	472 Jun 03 j 05:35	21°♌42'16	
evening rise	471 Jun 20 j 02:27	7°♌07'29			472 Jun 07 j 08:37	0°♌	
	471 Jul 02 j 12:33	0°♌			472 Jun 25 j 14:39	0°♌	
desc. node	471 Jul 13 j 19:34	16°♌51'39		desc. node	472 Jun 29 j 16:36	5°♌07'17	
evening max el	471 Jul 23 j 11:12	27°♌56'06	27°25'38	evening max el	472 Jul 04 j 18:22	10°♌31'46	27°11'26
	471 Jul 25 j 18:31	0°♍		retrograde	472 Jul 18 j 15:24	17°♌48'05	
retrograde	471 Aug 06 j 03:13	5°♍15'26		evening set	472 Jul 25 j 17:49	15°♌29'08	
evening set	471 Aug 13 j 07:46	2°♍36'31		min. Earth dist.	472 Jul 29 j 08:33	12°♌43'11	0.61689 AU
	471 Aug 16 j 08:56	30°♌♌		inferior conj	472 Aug 01 j 10:48	9°♌56'26	-4°17'05
min. Earth dist.	471 Aug 16 j 22:43	29°♌26'32	0.63540 AU	minimum elong	472 Aug 01 j 15:18	9°♌46'17	4°16'16
inferior conj	471 Aug 19 j 13:39	26°♌46'48	-3°33'52	morning rise	472 Aug 08 j 14:19	4°♌59'25	
minimum elong	471 Aug 19 j 18:32	26°♌34'24	3°32'30	direct	472 Aug 11 j 01:30	4°♌33'40	
morning rise	471 Aug 26 j 06:25	21°♌29'45		asc. node	472 Aug 17 j 08:09	7°♌25'25	
direct	471 Aug 28 j 19:30	20°♌58'17		morning max el	472 Aug 17 j 23:57	8°♌02'22	17°56'52
asc. node	471 Aug 31 j 11:05	21°♌32'56			472 Sep 01 j 05:45	0°♍	

morning set	472 Sep 02 j 22:52	3° \mathbb{M} 07'15		473 Aug 24 j 09:28	0° \mathbb{M}	
superior conj	472 Sep 13 j 11:42	21° \mathbb{M} 59'08	1°15'41	superior conj	473 Aug 26 j 16:28	4° \mathbb{M} 13'54 1°36'16
minimum elong	472 Sep 13 j 16:28	22° \mathbb{M} 19'45	1°15'10	minimum elong	473 Aug 26 j 19:37	4° \mathbb{M} 28'18 1°36'03
	472 Sep 18 j 04:22	0° \mathbb{L}		max. Earth dist.	473 Sep 03 j 05:24	17° \mathbb{M} 35'34 1.40663 AU
max. Earth dist.	472 Sep 20 j 22:08	4° \mathbb{L} 33'21	1.42535 AU	evening rise	473 Sep 07 j 21:04	25° \mathbb{M} 24'26
desc. node	472 Sep 25 j 15:55	12° \mathbb{L} 14'21			473 Sep 10 j 16:50	0° \mathbb{L}
evening rise	472 Sep 27 j 13:59	15° \mathbb{L} 17'02		desc. node	473 Sep 12 j 12:56	2° \mathbb{L} 55'55
	472 Oct 07 j 04:09	0° \mathbb{M}			473 Sep 30 j 23:16	0° \mathbb{M}
evening max el	472 Oct 29 j 15:47	0° \mathbb{X} 05'38	21°59'24	evening max el	473 Oct 12 j 06:46	13° \mathbb{M} 37'04 23°18'47
	472 Oct 29 j 13:35	0° \mathbb{X}		retrograde	473 Oct 22 j 16:01	19° \mathbb{M} 45'52
retrograde	472 Nov 07 j 22:23	5° \mathbb{X} 36'32		evening set	473 Oct 27 j 14:39	17° \mathbb{M} 43'14
evening set	472 Nov 12 j 07:52	3° \mathbb{X} 51'42		asc. node	473 Oct 31 j 04:23	13° \mathbb{M} 46'49
asc. node	472 Nov 13 j 07:21	2° \mathbb{X} 59'23		inferior conj	473 Nov 01 j 23:25	11° \mathbb{M} 21'19 0°36'54
	472 Nov 15 j 21:15	30° \mathbb{R} \mathbb{M}		minimum elong	473 Nov 01 j 22:33	11° \mathbb{M} 24'16 0°36'32
inferior conj	472 Nov 17 j 16:15	27° \mathbb{M} 33'59	1°27'39	min. Earth dist.	473 Nov 01 j 14:21	11° \mathbb{M} 52'24 0.67688 AU
minimum elong	472 Nov 17 j 14:22	27° \mathbb{M} 40'30	1°26'54	morning rise	473 Nov 07 j 06:23	5° \mathbb{M} 12'36
min. Earth dist.	472 Nov 17 j 17:45	27° \mathbb{M} 28'46	0.67661 AU	direct	473 Nov 11 j 11:40	3° \mathbb{M} 33'40
morning rise	472 Nov 22 j 20:42	21° \mathbb{M} 21'49		morning max el	473 Nov 20 j 02:40	8° \mathbb{M} 36'07 21°19'06
direct	472 Nov 27 j 16:25	19° \mathbb{M} 20'08			473 Dec 06 j 11:48	0° \mathbb{X}
morning max el	472 Dec 07 j 11:12	25° \mathbb{M} 07'57	22°42'16	desc. node	473 Dec 09 j 12:10	4° \mathbb{X} 26'41
	472 Dec 11 j 20:10	0° \mathbb{X}		morning set	473 Dec 21 j 02:09	22° \mathbb{X} 10'49
desc. node	472 Dec 22 j 15:07	14° \mathbb{X} 21'25			473 Dec 25 j 23:42	0° \mathbb{Z}
	473 Jan 02 j 03:28	0° \mathbb{Z}		max. Earth dist.	473 Dec 28 j 11:31	4° \mathbb{Z} 03'45 1.42225 AU
morning set	473 Jan 10 j 13:17	13° \mathbb{Z} 24'18				
max. Earth dist.	473 Jan 15 j 09:35	21° \mathbb{Z} 31'22	1.40229 AU	superior conj	474 Jan 04 j 19:29	16° \mathbb{Z} 23'04 -2°02'04
	473 Jan 20 j 06:27	0° \mathbb{X}		minimum elong	474 Jan 04 j 18:07	16° \mathbb{Z} 17'10 2°02'03
					474 Jan 12 j 13:02	0° \mathbb{X}
superior conj	473 Jan 23 j 04:31	5° \mathbb{X} 14'37	-1°59'17	evening rise	474 Jan 16 j 01:08	6° \mathbb{X} 19'59
minimum elong	473 Jan 23 j 06:53	5° \mathbb{X} 25'20	1°59'11	asc. node	474 Jan 27 j 03:40	25° \mathbb{X} 33'37
evening rise	473 Feb 02 j 00:56	23° \mathbb{X} 39'18			474 Jan 30 j 07:54	0° \mathbb{X}
	473 Feb 05 j 09:47	0° \mathbb{X}		evening max el	474 Feb 01 j 16:26	2° \mathbb{X} 39'05 18°08'31
asc. node	473 Feb 09 j 06:39	6° \mathbb{X} 59'54		retrograde	474 Feb 08 j 09:45	6° \mathbb{X} 05'03
evening max el	473 Feb 18 j 06:27	19° \mathbb{X} 41'08	18°24'27	evening set	474 Feb 11 j 01:49	5° \mathbb{X} 32'54
retrograde	473 Feb 25 j 15:36	23° \mathbb{X} 19'43		inferior conj	474 Feb 17 j 17:45	0° \mathbb{X} 36'48 3°41'47
evening set	473 Feb 28 j 02:51	22° \mathbb{X} 56'25		minimum elong	474 Feb 17 j 19:21	0° \mathbb{X} 33'00 3°41'39
inferior conj	473 Mar 07 j 09:55	18° \mathbb{X} 21'25	3°09'55		474 Feb 18 j 09:10	30° \mathbb{R} \mathbb{X}
minimum elong	473 Mar 07 j 13:34	18° \mathbb{X} 13'54	3°09'12	min. Earth dist.	474 Feb 20 j 22:17	27° \mathbb{X} 36'14 0.60957 AU
min. Earth dist.	473 Mar 10 j 20:23	15° \mathbb{X} 33'36	0.58847 AU	morning rise	474 Feb 24 j 11:12	24° \mathbb{X} 47'42
morning rise	473 Mar 14 j 21:45	12° \mathbb{X} 51'22		direct	474 Mar 03 j 06:16	22° \mathbb{X} 31'55
desc. node	473 Mar 20 j 14:17	11° \mathbb{X} 12'00		desc. node	474 Mar 07 j 11:19	23° \mathbb{X} 19'53
direct	473 Mar 21 j 01:57	11° \mathbb{X} 11'23			474 Mar 17 j 02:01	0° \mathbb{X}
morning max el	473 Apr 04 j 10:09	18° \mathbb{X} 52'15	26°58'00	morning max el	474 Mar 17 j 11:15	0° \mathbb{X} 22'35 27°40'24
	473 Apr 13 j 19:21	0° \mathbb{Y}			474 Apr 07 j 20:11	0° \mathbb{Y}
	473 May 01 j 12:42	0° \mathbb{Z}		morning set	474 Apr 18 j 20:35	20° \mathbb{Y} 54'14
morning set	473 May 04 j 14:18	6° \mathbb{Z} 16'38			474 Apr 23 j 04:01	0° \mathbb{Z}
asc. node	473 May 08 j 05:57	14° \mathbb{Z} 04'12		max. Earth dist.	474 Apr 25 j 00:18	4° \mathbb{Z} 00'03 1.32394 AU
				asc. node	474 Apr 25 j 02:58	4° \mathbb{Z} 14'35
superior conj	473 May 11 j 15:55	21° \mathbb{Z} 32'38	0°35'28			
minimum elong	473 May 11 j 14:25	21° \mathbb{Z} 24'22	0°35'09	superior conj	474 Apr 26 j 02:59	6° \mathbb{Z} 25'45 0°10'35
max. Earth dist.	473 May 11 j 12:25	21° \mathbb{Z} 13'26	1.32308 AU	minimum elong	474 Apr 26 j 02:30	6° \mathbb{Z} 23'05 0°10'29
	473 May 15 j 12:37	0° \mathbb{I}		behind sun begin	474 Apr 25 j 22:41	6° \mathbb{Z} 02'11
evening rise	473 May 18 j 13:43	6° \mathbb{I} 30'47		behind sun end	474 Apr 26 j 06:19	6° \mathbb{Z} 44'00
	473 May 30 j 22:55	0° \mathbb{L}		evening rise	474 May 03 j 00:37	21° \mathbb{Z} 24'24
desc. node	473 Jun 16 j 13:36	22° \mathbb{L} 09'52			474 May 07 j 04:57	0° \mathbb{I}
evening max el	473 Jun 16 j 19:20	22° \mathbb{L} 23'37	26°24'05		474 May 26 j 05:12	0° \mathbb{L}
retrograde	473 Jun 30 j 19:19	29° \mathbb{L} 36'48		evening max el	474 May 29 j 13:15	3° \mathbb{L} 29'50 25°08'26
evening set	473 Jul 07 j 08:07	27° \mathbb{L} 50'16		desc. node	474 Jun 03 j 10:36	7° \mathbb{L} 29'14
min. Earth dist.	473 Jul 11 j 08:22	25° \mathbb{L} 13'16	0.59651 AU	retrograde	474 Jun 12 j 13:26	10° \mathbb{L} 37'41
inferior conj	473 Jul 14 j 16:22	22° \mathbb{L} 36'56	-4°44'15	evening set	474 Jun 17 j 23:18	9° \mathbb{L} 30'06
minimum elong	473 Jul 14 j 18:33	22° \mathbb{L} 32'37	4°44'06	min. Earth dist.	474 Jun 23 j 00:52	6° \mathbb{L} 43'12 0.57647 AU
morning rise	473 Jul 22 j 07:02	18° \mathbb{L} 02'27		inferior conj	474 Jun 26 j 02:57	4° \mathbb{L} 38'12 -4°44'11
direct	473 Jul 24 j 18:38	17° \mathbb{L} 40'25		minimum elong	474 Jun 26 j 00:43	4° \mathbb{L} 42'01 4°44'02
morning max el	473 Aug 01 j 10:03	21° \mathbb{L} 21'41	18°19'34	morning rise	474 Jul 04 j 04:51	0° \mathbb{L} 25'53
asc. node	473 Aug 04 j 05:11	24° \mathbb{L} 28'09		direct	474 Jul 06 j 18:23	0° \mathbb{L} 06'26
	473 Aug 08 j 01:48	0° \mathbb{O}		morning max el	474 Jul 15 j 12:45	4° \mathbb{L} 12'34 19°02'57
morning set	473 Aug 17 j 10:09	16° \mathbb{O} 48'10		asc. node	474 Jul 22 j 02:12	12° \mathbb{L} 25'54

	474 Jul 31 j 19:27	0°♎			475 Jul 08 j 08:00	0°♏	
morning set	474 Aug 01 j 07:20	0°♎58'32		asc. node	475 Jul 08 j 23:15	1°♏06'06	
				morning set	475 Jul 16 j 11:23	15°♏30'15	
superior conj	474 Aug 09 j 16:06	17°♎25'24	1°45'40		475 Jul 23 j 13:48	0°♎	
minimum elong	474 Aug 09 j 17:09	17°♎30'26	1°45'38				
	474 Aug 16 j 09:58	0°♎		superior conj	475 Jul 24 j 05:23	1°♎18'26	1°45'58
max. Earth dist.	474 Aug 16 j 08:38	29°♎53'59	1.38631 AU	minimum elong	475 Jul 24 j 04:40	1°♎14'52	1°45'56
evening rise	474 Aug 20 j 04:45	6°♎41'11		max. Earth dist.	475 Jul 29 j 13:15	11°♎45'28	1.36704 AU
desc. node	474 Aug 30 j 09:58	23°♎28'57		evening rise	475 Aug 02 j 11:07	19°♎03'25	
	474 Sep 03 j 16:28	0°♏			475 Aug 08 j 16:38	0°♎	
evening max el	474 Sep 24 j 18:54	27°♏11'47	24°37'59	desc. node	475 Aug 17 j 06:59	13°♎48'10	
	474 Sep 27 j 20:56	0°♎			475 Aug 28 j 19:22	0°♏	
retrograde	474 Oct 06 j 05:58	3°♎53'18		evening max el	475 Sep 07 j 06:28	10°♏49'11	25°49'38
evening set	474 Oct 11 j 18:49	1°♎33'22		retrograde	475 Sep 19 j 15:18	17°♏53'11	
	474 Oct 13 j 09:09	30°♎		evening set	475 Sep 25 j 18:34	15°♏18'45	
min. Earth dist.	474 Oct 16 j 09:49	26°♏16'18	0.67389 AU	min. Earth dist.	475 Sep 30 j 01:44	10°♏37'20	0.66764 AU
inferior conj	474 Oct 17 j 05:21	25°♏11'14	-0°17'20	inferior conj	475 Oct 01 j 08:15	9°♏00'37	-1°13'39
minimum elong	474 Oct 17 j 05:46	25°♏09'49	0°17'09	minimum elong	475 Oct 01 j 10:07	8°♏54'39	1°12'51
asc. node	474 Oct 18 j 01:24	24°♏04'49		asc. node	475 Oct 04 j 22:28	4°♏50'10	
morning rise	474 Oct 22 j 16:48	19°♏08'22		morning rise	475 Oct 07 j 01:58	3°♏06'23	
direct	474 Oct 26 j 09:14	17°♏50'18		direct	475 Oct 10 j 07:42	2°♏05'54	
morning max el	474 Nov 03 j 01:37	22°♏15'01	20°06'39	morning max el	475 Oct 17 j 07:55	6°♏02'23	19°08'16
	474 Nov 09 j 12:15	0°♎			475 Nov 03 j 09:44	0°♎	
desc. node	474 Nov 26 j 09:13	24°♎49'06		morning set	475 Nov 09 j 03:59	8°♎58'54	
morning set	474 Nov 29 j 22:53	0°♏18'46		desc. node	475 Nov 13 j 06:15	15°♎23'03	
	474 Nov 29 j 18:01	0°♏			475 Nov 22 j 13:58	0°♏	
max. Earth dist.	474 Dec 10 j 20:47	17°♏27'04	1.43812 AU	max. Earth dist.	475 Nov 23 j 11:57	1°♏26'36	1.44793 AU
superior conj	474 Dec 16 j 08:20	26°♏19'02	-1°48'48	superior conj	475 Nov 25 j 20:18	5°♏09'09	-1°16'58
minimum elong	474 Dec 16 j 01:58	25°♏52'58	1°48'22	minimum elong	475 Nov 25 j 11:58	4°♏36'08	1°16'03
	474 Dec 18 j 14:04	0°♏		evening rise	475 Dec 10 j 17:05	29°♏06'34	
evening rise	474 Dec 29 j 07:58	18°♏11'46			475 Dec 11 j 06:07	0°♏	
	475 Jan 05 j 04:53	0°♏		evening max el	475 Dec 30 j 16:51	29°♏15'39	18°33'59
asc. node	475 Jan 14 j 00:42	13°♏25'56			475 Dec 31 j 11:01	0°♏	
evening max el	475 Jan 16 j 04:48	15°♏52'51	18°11'57	asc. node	475 Dec 31 j 21:45	0°♏24'16	
retrograde	475 Jan 22 j 16:27	19°♏19'44		retrograde	476 Jan 06 j 07:20	2°♏54'56	
evening set	475 Jan 25 j 13:06	18°♏37'43		evening set	476 Jan 09 j 09:14	2°♏01'54	
inferior conj	475 Jan 31 j 17:34	13°♏21'32	3°48'24		476 Jan 12 j 00:08	30°♎	
minimum elong	475 Jan 31 j 17:06	13°♏22'49	3°48'23	inferior conj	476 Jan 15 j 05:22	26°♏27'22	3°36'43
min. Earth dist.	475 Feb 03 j 09:07	10°♏31'31	0.62963 AU	minimum elong	476 Jan 15 j 03:27	26°♏33'03	3°36'28
morning rise	475 Feb 06 j 20:09	7°♏21'07		min. Earth dist.	476 Jan 17 j 05:33	24°♏04'49	0.64674 AU
direct	475 Feb 13 j 19:51	4°♏39'42		morning rise	476 Jan 20 j 21:12	20°♏20'20	
desc. node	475 Feb 22 j 08:22	7°♏55'40		direct	476 Jan 27 j 16:46	17°♏28'17	
morning max el	475 Feb 27 j 17:43	12°♏33'20	27°45'38	desc. node	476 Feb 09 j 05:25	24°♏22'57	
	475 Mar 13 j 16:01	0°♏		morning max el	476 Feb 10 j 02:54	25°♏15'39	27°15'51
	475 Mar 31 j 06:05	0°♏			476 Feb 14 j 11:17	0°♏	
morning set	475 Apr 02 j 21:01	5°♏11'04			476 Mar 06 j 03:09	0°♏	
max. Earth dist.	475 Apr 08 j 07:24	16°♏27'20	1.32870 AU	morning set	476 Mar 16 j 12:46	18°♏57'52	
				max. Earth dist.	476 Mar 21 j 05:55	28°♏24'16	1.33773 AU
					476 Mar 22 j 00:30	0°♏	
superior conj	475 Apr 10 j 11:41	21°♏07'40	-0°15'56				
minimum elong	475 Apr 10 j 12:27	21°♏11'48	0°15'47	superior conj	476 Mar 24 j 16:05	5°♏32'16	-0°43'05
behind sun begin	475 Apr 10 j 11:50	21°♏08'32		minimum elong	476 Mar 24 j 18:11	5°♏43'20	0°42'40
behind sun end	475 Apr 10 j 13:03	21°♏15'04		asc. node	476 Mar 28 j 21:04	14°♏28'45	
asc. node	475 Apr 12 j 00:00	24°♏24'06		evening rise	476 Mar 31 j 23:20	21°♏01'32	
	475 Apr 14 j 14:01	0°♏			476 Apr 05 j 09:13	0°♏	
evening rise	475 Apr 17 j 12:25	6°♏16'41		evening max el	476 Apr 21 j 21:05	24°♏43'54	22°01'25
	475 Apr 30 j 03:22	0°♏			476 Apr 29 j 14:37	0°♏	
evening max el	475 May 11 j 03:32	14°♏06'47	23°35'57	retrograde	476 May 04 j 13:31	0°♏57'13	
desc. node	475 May 21 j 07:37	20°♏29'26		evening set	476 May 07 j 06:27	0°♏40'58	
retrograde	475 May 24 j 19:37	20°♏57'20		desc. node	476 May 07 j 04:37	0°♏41'51	
evening set	475 May 28 j 18:13	20°♏23'07			476 May 09 j 17:36	30°♎	
min. Earth dist.	475 Jun 04 j 14:05	17°♏12'38	0.56012 AU	min. Earth dist.	476 May 16 j 02:38	26°♏54'35	0.55086 AU
inferior conj	475 Jun 06 j 17:28	15°♏55'32	-4°03'47	inferior conj	476 May 16 j 16:12	26°♏35'32	-2°37'31
minimum elong	475 Jun 06 j 10:50	16°♏05'32	4°02'27	minimum elong	476 May 16 j 09:27	26°♏45'01	2°35'24
morning rise	475 Jun 15 j 06:15	11°♏58'51		morning rise	476 May 25 j 13:50	22°♏40'48	
direct	475 Jun 17 j 22:48	11°♏40'46		direct	476 May 28 j 12:48	22°♏21'17	
morning max el	475 Jun 28 j 05:24	16°♏26'02	20°07'21				

morning max el	476 Jun 09 j 10:49	27°♄56'37	21°31'15	direct	477 May 08 j 23:42	2°♄21'18	
	476 Jun 11 j 11:59	0°♄		morning max el	477 May 22 j 06:30	8°♄47'27	23°09'09
asc. node	476 Jun 24 j 20:20	20°♄18'41			477 Jun 06 j 13:32	0°♄	
morning set	476 Jun 29 j 20:01	0°♄17'24		asc. node	477 Jun 11 j 17:24	9°♄54'23	
	476 Jun 29 j 16:39	0°♄		morning set	477 Jun 14 j 07:10	15°♄12'57	
superior conj	476 Jul 07 j 04:19	15°♄41'35	1°39'05	superior conj	477 Jun 21 j 09:40	0°♄24'03	1°26'32
minimum elong	476 Jul 07 j 02:27	15°♄31'52	1°38'57	minimum elong	477 Jun 21 j 07:15	0°♄11'09	1°26'14
max. Earth dist.	476 Jul 11 j 01:29	23°♄39'01	1.35064 AU		477 Jun 21 j 05:10	0°♄	
	476 Jul 14 j 06:35	0°♄		max. Earth dist.	477 Jun 23 j 23:15	5°♄50'37	1.33795 AU
evening rise	476 Jul 15 j 11:33	2°♄19'25		evening rise	477 Jun 29 j 01:14	16°♄14'38	
	476 Jul 31 j 15:09	0°♄			477 Jul 06 j 08:21	0°♄	
desc. node	476 Aug 03 j 04:00	3°♄47'22		desc. node	477 Jul 21 j 01:01	23°♄16'55	
evening max el	476 Aug 19 j 18:37	24°♄24'47	26°45'48		477 Jul 26 j 04:22	0°♄	
	476 Aug 27 j 00:38	0°♄		evening max el	477 Aug 02 j 06:22	7°♄46'48	27°19'09
retrograde	476 Sep 01 j 19:23	1°♄40'06		retrograde	477 Aug 15 j 17:41	15°♄05'35	
	476 Sep 07 j 01:21	30°♄		evening set	477 Aug 22 j 19:42	12°♄21'32	
evening set	476 Sep 08 j 11:45	28°♄56'31		min. Earth dist.	477 Aug 26 j 13:16	8°♄53'14	0.64475 AU
min. Earth dist.	476 Sep 12 j 11:40	24°♄52'08	0.65802 AU	inferior conj	477 Aug 28 j 20:45	6°♄23'44	-3°04'43
inferior conj	476 Sep 14 j 06:10	22°♄46'40	-2°10'13	minimum elong	477 Aug 29 j 01:15	6°♄11'33	3°03'15
minimum elong	476 Sep 14 j 09:30	22°♄36'48	2°08'56	morning rise	477 Sep 04 j 07:40	0°♄56'32	
morning rise	476 Sep 20 j 07:47	17°♄04'11		direct	477 Sep 06 j 23:09	0°♄20'24	
asc. node	476 Sep 20 j 19:32	16°♄49'50		asc. node	477 Sep 07 j 16:36	0°♄23'09	
direct	476 Sep 23 j 05:11	16°♄17'37		morning max el	477 Sep 13 j 11:17	3°♄47'44	18°00'23
morning max el	476 Sep 29 j 19:59	19°♄55'14	18°25'50	morning set	477 Sep 30 j 22:49	0°♄23'17	
	476 Oct 07 j 12:52	0°♄			477 Sep 30 j 17:18	0°♄	
morning set	476 Oct 19 j 11:15	18°♄59'47		superior conj	477 Oct 14 j 08:09	22°♄33'22	0°17'44
	476 Oct 26 j 07:34	0°♄		minimum elong	477 Oct 14 j 10:12	22°♄41'40	0°17'26
desc. node	476 Oct 30 j 03:19	6°♄04'53		desc. node	477 Oct 17 j 00:21	26°♄50'54	
superior conj	476 Nov 03 j 20:57	13°♄33'33	-0°30'54		477 Oct 18 j 23:54	0°♄	
minimum elong	476 Nov 03 j 16:54	13°♄17'36	0°30'22	max. Earth dist.	477 Oct 19 j 01:23	0°♄05'54	1.44584 AU
max. Earth dist.	476 Nov 05 j 06:41	15°♄46'14	1.45060 AU	evening rise	477 Oct 30 j 16:21	18°♄14'50	
	476 Nov 14 j 08:16	0°♄			477 Nov 07 j 08:32	0°♄	
evening rise	476 Nov 20 j 02:33	9°♄03'32		greatest brilliancy	477 Nov 13 j 19:36	9°♄41'51	-0.6m
greatest brilliancy	476 Nov 30 j 05:18	24°♄56'19	-0.8m	evening max el	477 Nov 26 j 06:54	26°♄11'30	20°08'18
	476 Dec 03 j 12:39	0°♄			477 Dec 01 j 03:05	0°♄	
evening max el	476 Dec 13 j 02:13	12°♄42'57	19°13'21	retrograde	477 Dec 04 j 00:39	0°♄44'05	
asc. node	476 Dec 17 j 18:48	16°♄14'28		asc. node	477 Dec 04 j 15:51	0°♄41'49	
retrograde	476 Dec 20 j 03:00	16°♄44'37			477 Dec 06 j 18:47	30°♄	
evening set	476 Dec 23 j 11:24	15°♄39'13		evening set	477 Dec 07 j 17:14	29°♄24'41	
inferior conj	476 Dec 29 j 01:45	9°♄48'30	3°11'48	inferior conj	477 Dec 13 j 03:54	23°♄20'40	2°37'02
minimum elong	476 Dec 28 j 23:07	9°♄56'55	3°11'12	minimum elong	477 Dec 13 j 01:11	23°♄29'49	2°36'12
min. Earth dist.	476 Dec 30 j 10:55	8°♄02'42	0.66000 AU	min. Earth dist.	477 Dec 13 j 23:35	22°♄14'36	0.66927 AU
morning rise	477 Jan 03 j 10:35	3°♄37'32		morning rise	477 Dec 18 j 08:56	17°♄07'38	
direct	477 Jan 09 j 19:51	0°♄49'02		direct	477 Dec 24 j 04:21	14°♄33'08	
morning max el	477 Jan 22 j 12:25	8°♄18'18	26°17'36	morning max el	478 Jan 04 j 21:10	21°♄31'14	24°59'57
desc. node	477 Jan 26 j 02:29	12°♄10'24			478 Jan 12 j 06:23	0°♄	
	477 Feb 08 j 12:20	0°♄		desc. node	478 Jan 12 j 23:33	0°♄54'36	
	477 Feb 26 j 13:35	0°♄			478 Feb 01 j 18:20	0°♄	
morning set	477 Feb 27 j 16:01	2°♄02'53		morning set	478 Feb 10 j 01:41	14°♄11'47	
max. Earth dist.	477 Mar 03 j 17:11	9°♄47'55	1.35137 AU	max. Earth dist.	478 Feb 13 j 17:49	20°♄52'22	1.36922 AU
					478 Feb 18 j 13:19	0°♄	
superior conj	477 Mar 08 j 13:51	19°♄32'07	-1°09'33	superior conj	478 Feb 20 j 01:58	2°♄58'49	-1°33'29
minimum elong	477 Mar 08 j 17:08	19°♄48'57	1°09'00	minimum elong	478 Feb 20 j 05:55	3°♄18'15	1°32'59
	477 Mar 13 j 15:14	0°♄		evening rise	478 Feb 28 j 10:29	19°♄42'41	
asc. node	477 Mar 15 j 18:07	4°♄23'53		asc. node	478 Mar 02 j 15:11	24°♄04'49	
evening rise	477 Mar 16 j 07:25	5°♄32'24			478 Mar 05 j 17:03	0°♄	
	477 Mar 30 j 01:00	0°♄		evening max el	478 Mar 17 j 13:50	17°♄27'10	19°29'54
evening max el	477 Apr 03 j 23:46	5°♄46'28	20°37'02	retrograde	478 Mar 26 j 23:37	21°♄58'43	
retrograde	477 Apr 15 j 02:26	11°♄08'28		evening set	478 Mar 29 j 02:38	21°♄45'52	
evening set	477 Apr 17 j 05:49	10°♄57'20		inferior conj	478 Apr 06 j 15:10	17°♄40'07	1°12'24
desc. node	477 Apr 24 j 01:39	8°♄19'54		minimum elong	478 Apr 06 j 18:04	17°♄35'27	1°11'26
inferior conj	477 Apr 26 j 10:34	6°♄59'44	-0°41'01	min. Earth dist.	478 Apr 09 j 06:09	15°♄59'02	0.56029 AU
minimum elong	477 Apr 26 j 08:38	7°♄02'32	0°40'18	desc. node	478 Apr 10 j 22:41	14°♄58'04	
min. Earth dist.	477 Apr 27 j 15:38	6°♄17'55	0.55091 AU	morning rise	478 Apr 15 j 06:49	12°♄57'18	
morning rise	477 May 05 j 10:32	2°♄48'29					

direct	478 Apr 19 j 19:19	12°♿11'06		desc. node	479 Mar 28 j 19:43	22°♿50'42	
morning max el	478 May 03 j 21:29	19°♿18'05	24°49'51	direct	479 Apr 01 j 05:03	22°♿22'01	
	478 May 12 j 21:21	0°♿		morning max el	479 Apr 15 j 13:34	29°♿55'00	26°18'19
morning set	478 May 29 j 19:08	0°♿11'17			479 Apr 15 j 15:38	0°♿	
asc. node	478 May 29 j 14:27	29°♿46'42			479 May 06 j 15:08	0°♿	
	478 May 29 j 16:59	0°♿		morning set	479 May 14 j 06:15	15°♿06'29	
				asc. node	479 May 16 j 11:29	19°♿49'48	
superior conj	478 Jun 05 j 19:02	15°♿18'10	1°09'26	superior conj	479 May 21 j 06:25	0°♿16'55	0°48'44
minimum elong	478 Jun 05 j 16:37	15°♿05'03	1°09'03	minimum elong	479 May 21 j 04:29	0°♿06'13	0°48'22
max. Earth dist.	478 Jun 07 j 05:07	18°♿23'07	1.32917 AU		479 May 21 j 03:21	0°♿	
	478 Jun 12 j 16:58	0°♿			479 May 21 j 16:07	1°♿10'08	1.32420 AU
evening rise	478 Jun 13 j 00:20	0°♿37'45		max. Earth dist.	479 May 28 j 05:51	15°♿19'14	
	478 Jun 29 j 08:17	0°♿		evening rise	479 Jun 04 j 16:31	0°♿	
desc. node	478 Jul 07 j 22:01	12°♿04'24			479 Jun 24 j 19:01	29°♿52'17	
evening max el	478 Jul 15 j 15:43	20°♿42'23	27°23'28	desc. node	479 Jun 24 j 21:50	0°♿	
retrograde	478 Jul 29 j 09:54	28°♿00'38			479 Jun 27 j 20:19	2°♿59'54	26°55'09
evening set	478 Aug 05 j 14:58	25°♿28'10		evening max el	479 Jul 11 j 19:06	10°♿15'50	
min. Earth dist.	478 Aug 09 j 04:52	22°♿30'14	0.62792 AU	retrograde	479 Jul 18 j 17:15	8°♿09'06	
inferior conj	478 Aug 12 j 01:09	19°♿45'32	-3°53'36	evening set	479 Jul 22 j 10:18	5°♿29'09	0.60830 AU
minimum elong	478 Aug 12 j 06:04	19°♿33'40	3°52'25	min. Earth dist.	479 Jul 25 j 16:06	2°♿44'06	-4°31'12
morning rise	478 Aug 18 j 22:28	14°♿36'57		inferior conj	479 Jul 25 j 19:55	2°♿35'59	4°30'40
direct	478 Aug 21 j 10:28	14°♿08'12		minimum elong	479 Jul 29 j 02:37	30°♿	
asc. node	478 Aug 25 j 13:40	15°♿28'26			479 Aug 02 j 00:23	27°♿56'45	
morning max el	478 Aug 28 j 03:00	17°♿33'48	17°52'47	morning rise	479 Aug 04 j 11:20	27°♿32'56	
	478 Sep 06 j 00:28	0°♿		direct	479 Aug 10 j 10:33	0°♿	
morning set	478 Sep 13 j 09:28	12°♿52'57			479 Aug 11 j 16:05	1°♿05'51	18°04'04
	478 Sep 23 j 04:41	0°♿		morning max el	479 Aug 12 j 10:42	1°♿53'01	
				asc. node	479 Aug 27 j 13:15	26°♿12'15	
superior conj	478 Sep 24 j 20:34	2°♿48'53	0°58'06	morning set	479 Aug 29 j 14:15	0°♿	
minimum elong	478 Sep 25 j 01:23	3°♿09'07	0°57'30				
max. Earth dist.	478 Oct 01 j 16:41	14°♿06'02	1.43435 AU	superior conj	479 Sep 06 j 11:55	14°♿24'13	1°25'55
desc. node	478 Oct 03 j 21:22	17°♿37'50		minimum elong	479 Sep 06 j 16:09	14°♿42'57	1°25'31
evening rise	478 Oct 09 j 23:41	27°♿13'53		max. Earth dist.	479 Sep 14 j 02:33	27°♿31'11	1.41769 AU
	478 Oct 11 j 18:39	0°♿			479 Sep 15 j 14:21	0°♿	
	478 Nov 01 j 06:27	0°♿		evening rise	479 Sep 19 j 18:29	6°♿47'24	
evening max el	478 Nov 09 j 05:51	9°♿39'58	21°16'08	desc. node	479 Sep 20 j 18:23	8°♿22'49	
retrograde	478 Nov 17 j 22:03	14°♿49'20			479 Oct 05 j 00:08	0°♿	
asc. node	478 Nov 21 j 12:54	13°♿35'57		evening max el	479 Oct 22 j 23:22	23°♿10'19	22°32'48
evening set	478 Nov 22 j 00:45	13°♿14'16		retrograde	479 Nov 01 j 17:29	28°♿58'15	
inferior conj	478 Nov 27 j 09:29	7°♿00'20	1°54'44	evening set	479 Nov 06 j 08:15	27°♿06'06	
minimum elong	478 Nov 27 j 07:11	7°♿08'18	1°53'53	asc. node	479 Nov 08 j 09:55	25°♿02'41	
min. Earth dist.	478 Nov 27 j 17:17	6°♿33'28	0.67486 AU	inferior conj	479 Nov 11 j 16:37	20°♿45'59	1°06'39
morning rise	478 Dec 02 j 13:27	0°♿47'05		minimum elong	479 Nov 11 j 15:08	20°♿51'08	1°06'02
	478 Dec 03 j 13:07	30°♿		min. Earth dist.	479 Nov 11 j 13:37	20°♿56'21	0.67708 AU
direct	478 Dec 07 j 17:43	28°♿32'40		morning rise	479 Nov 16 j 21:52	14°♿34'44	
	478 Dec 12 j 09:15	0°♿		direct	479 Nov 21 j 11:15	12°♿42'45	
morning max el	478 Dec 18 j 05:58	4°♿48'21	23°32'48	morning max el	479 Nov 30 j 17:53	18°♿11'14	22°05'49
desc. node	478 Dec 30 j 20:34	20°♿18'31			479 Dec 10 j 11:47	0°♿	
	479 Jan 06 j 14:56	0°♿		desc. node	479 Dec 17 j 17:37	10°♿11'22	
morning set	479 Jan 22 j 11:24	25°♿06'49			479 Dec 30 j 18:41	0°♿	
	479 Jan 25 j 07:49	0°♿		morning set	480 Jan 02 j 16:09	4°♿37'15	
max. Earth dist.	479 Jan 26 j 12:48	2°♿06'30	1.38994 AU	max. Earth dist.	480 Jan 08 j 10:01	14°♿03'37	1.41110 AU
superior conj	479 Feb 03 j 00:26	15°♿41'03	-1°52'14	superior conj	480 Jan 16 j 04:27	27°♿27'28	-2°02'09
minimum elong	479 Feb 03 j 03:54	15°♿57'19	1°51'59	minimum elong	480 Jan 16 j 05:30	27°♿32'10	2°02'08
	479 Feb 10 j 11:45	0°♿			480 Jan 17 j 14:39	0°♿	
evening rise	479 Feb 12 j 05:43	3°♿23'52			480 Jan 26 j 13:56	16°♿28'38	
asc. node	479 Feb 17 j 12:12	13°♿25'11		evening rise	480 Feb 03 j 00:28	0°♿	
evening max el	479 Feb 28 j 13:57	29°♿44'08	18°42'36		480 Feb 04 j 09:13	2°♿18'14	
	479 Feb 28 j 20:38	0°♿		asc. node	480 Feb 11 j 21:16	12°♿29'55	18°15'20
retrograde	479 Mar 08 j 13:43	3°♿37'23		evening max el	480 Feb 18 j 22:19	16°♿01'01	
evening set	479 Mar 10 j 21:42	3°♿18'45		retrograde	480 Feb 21 j 11:41	15°♿34'09	
	479 Mar 17 j 04:17	30°♿		evening set	480 Feb 28 j 11:54	10°♿50'29	3°26'57
inferior conj	479 Mar 18 j 15:04	28°♿55'53	2°37'08	inferior conj	480 Feb 28 j 14:45	10°♿44'13	3°26'32
minimum elong	479 Mar 18 j 19:19	28°♿47'53	2°36'03	minimum elong	480 Mar 02 j 21:17	7°♿53'54	0.59743 AU
min. Earth dist.	479 Mar 21 j 23:23	26°♿26'16	0.57690 AU	min. Earth dist.	480 Mar 06 j 15:37	5°♿11'16	
morning rise	479 Mar 26 j 13:57	23°♿40'27		morning rise			

direct	480 Mar 13 j 03:37	3° H 14'55		min. Earth dist.	481 Feb 13 j 02:34	20° \approx 20'39	0.61841 AU
desc. node	480 Mar 14 j 16:45	3° H 21'20		morning rise	481 Feb 16 j 13:40	17° \approx 24'49	
morning max el	480 Mar 27 j 10:44	11° H 01'15	27°20'21	direct	481 Feb 23 j 12:04	14° \approx 56'29	
	480 Apr 11 j 05:17	0° Y		desc. node	481 Mar 01 j 13:49	16° \approx 36'25	
morning set	480 Apr 27 j 14:49	29° Y 52'20		morning max el	481 Mar 09 j 14:08	22° \approx 48'31	27°47'13
	480 Apr 27 j 16:17	0° B			481 Mar 15 j 23:31	0° H	
asc. node	480 May 02 j 08:30	9° B 58'53			481 Apr 04 j 08:53	0° Y	
max. Earth dist.	480 May 04 j 04:41	14° B 00'22	1.32295 AU	morning set	481 Apr 11 j 18:55	14° Y 22'22	
				max. Earth dist.	481 Apr 17 j 15:06	26° Y 41'08	1.32547 AU
superior conj	480 May 04 j 18:06	15° B 14'01	0°25'11				
minimum elong	480 May 04 j 17:00	15° B 07'57	0°24'56	superior conj	481 Apr 19 j 04:25	0° B 03'38	-0°00'30
evening rise	480 May 11 j 15:23	0° II 10'48		minimum elong	481 Apr 19 j 04:26	0° B 03'45	0°00'30
	480 May 11 j 13:21	0° II		behind sun begin	481 Apr 18 j 23:19	29° Y 35'55	
	480 May 28 j 00:14	0° B		behind sun end	481 Apr 19 j 09:33	0° B 31'36	
evening max el	480 Jun 08 j 18:19	14° B 32'19	25°54'57	asc. node	481 Apr 19 j 05:33	0° B 09'50	
desc. node	480 Jun 10 j 16:02	16° B 15'27			481 Apr 19 j 03:45	0° B	
retrograde	480 Jun 22 j 19:20	21° B 43'57		evening rise	481 Apr 26 j 02:56	15° B 05'25	
evening set	480 Jun 28 j 21:56	20° B 14'08			481 May 03 j 14:11	0° II	
min. Earth dist.	480 Jul 03 j 06:55	17° B 34'59	0.58771 AU	evening max el	481 May 21 j 10:18	25° II 24'36	24°30'25
inferior conj	480 Jul 06 j 13:59	15° B 09'24	-4°48'24		481 May 27 j 07:09	0° B	
minimum elong	480 Jul 06 j 14:30	15° B 08'27	4°48'23	desc. node	481 May 28 j 13:02	0° B 41'09	
morning rise	480 Jul 14 j 09:24	10° B 44'23		retrograde	481 Jun 04 j 08:13	2° B 26'18	
direct	480 Jul 16 j 21:34	10° B 23'38		evening set	481 Jun 09 j 03:35	1° B 34'28	
morning max el	480 Jul 24 j 23:24	14° B 14'20	18°35'23		481 Jun 12 j 14:45	30° R II	
asc. node	480 Jul 29 j 07:44	19° B 21'00		min. Earth dist.	481 Jun 14 j 21:33	28° II 39'31	0.56890 AU
	480 Aug 04 j 20:43	0° Q		inferior conj	481 Jun 17 j 16:04	26° II 53'06	-4°32'41
morning set	480 Aug 10 j 05:12	10° Q 07'07		minimum elong	481 Jun 17 j 11:43	27° II 00'06	4°32'09
				morning rise	481 Jun 25 j 22:36	22° II 48'22	
superior conj	480 Aug 19 j 01:24	27° Q 04'59	1°41'30	direct	481 Jun 28 j 13:28	22° II 29'31	
minimum elong	480 Aug 19 j 03:39	27° Q 15'31	1°41'22	morning max el	481 Jul 07 j 22:03	26° II 50'30	19°27'43
	480 Aug 20 j 15:03	0° P			481 Jul 10 j 20:45	0° B	
max. Earth dist.	480 Aug 26 j 07:29	10° P 13'25	1.39804 AU	asc. node	481 Jul 16 j 04:48	7° B 38'41	
evening rise	480 Aug 30 j 11:59	17° P 24'26		morning set	481 Jul 25 j 05:42	24° B 28'12	
desc. node	480 Sep 06 j 15:24	29° P 01'30			481 Jul 27 j 23:47	0° Q	
	480 Sep 07 j 06:18	0° L					
	480 Sep 28 j 12:26	0° L		superior conj	481 Aug 02 j 07:27	10° Q 36'07	1°46'46
evening max el	480 Oct 04 j 13:00	6° L 43'44	23°52'58	minimum elong	481 Aug 02 j 07:41	10° Q 37'18	1°46'46
retrograde	480 Oct 15 j 09:35	13° L 07'07		max. Earth dist.	481 Aug 08 j 11:05	22° Q 19'52	1.37795 AU
evening set	480 Oct 20 j 14:06	10° L 57'15		evening rise	481 Aug 12 j 05:53	29° Q 10'39	
asc. node	480 Oct 25 j 06:57	5° L 31'01			481 Aug 12 j 17:04	0° P	
inferior conj	480 Oct 25 j 23:28	4° L 34'54	0°14'15	desc. node	481 Aug 24 j 12:24	19° P 29'30	
minimum elong	480 Oct 25 j 23:08	4° L 36'04	0°14'06		481 Aug 31 j 14:21	0° L	
transit middle	480 Oct 25 j 23:08	4° L 36'04	0°14'06	evening max el	481 Sep 17 j 00:51	20° L 20'31	25°09'48
transit begin	480 Oct 25 j 21:46	4° L 40'41		retrograde	481 Sep 28 j 21:29	27° L 12'02	
transit end	480 Oct 26 j 00:29	4° L 31'27		evening set	481 Oct 04 j 16:38	24° L 45'28	
min. Earth dist.	480 Oct 25 j 10:05	5° L 20'24	0.67604 AU	min. Earth dist.	481 Oct 09 j 04:16	19° L 43'30	0.67174 AU
	480 Oct 29 j 15:36	30° R L		inferior conj	481 Oct 10 j 04:21	18° L 24'48	-0°41'04
morning rise	480 Oct 31 j 08:07	28° L 28'10		minimum elong	481 Oct 10 j 05:23	18° L 21'25	0°40'37
direct	480 Nov 04 j 07:47	26° L 58'13		asc. node	481 Oct 12 j 04:01	15° L 53'36	
	480 Nov 10 j 16:10	0° L		morning rise	481 Oct 15 j 18:16	12° L 25'22	
morning max el	480 Nov 12 j 12:14	1° L 43'18	20°46'37	direct	481 Oct 19 j 05:59	11° L 15'06	
	480 Dec 03 j 08:06	0° X		morning max el	481 Oct 26 j 14:27	15° L 26'04	19°39'55
desc. node	480 Dec 03 j 14:40	0° X 24'45			481 Nov 06 j 18:15	0° L	
morning set	480 Dec 11 j 19:31	12° X 58'59		desc. node	481 Nov 20 j 11:43	20° L 52'39	
max. Earth dist.	480 Dec 20 j 15:00	26° X 58'36	1.42970 AU	morning set	481 Nov 20 j 16:47	21° L 12'14	
	480 Dec 22 j 11:32	0° Z			481 Nov 26 j 08:36	0° X	
				max. Earth dist.	481 Dec 03 j 03:44	10° X 41'53	1.44318 AU
superior conj	480 Dec 27 j 08:42	8° Z 06'00	-1°58'39				
minimum elong	480 Dec 27 j 05:11	7° Z 51'14	1°58'31	superior conj	481 Dec 07 j 10:11	17° X 31'13	-1°37'30
evening rise	481 Jan 08 j 07:14	28° Z 49'10		minimum elong	481 Dec 07 j 02:16	16° X 59'23	1°36'48
	481 Jan 08 j 23:11	0° \approx			481 Dec 15 j 01:39	0° Z	
asc. node	481 Jan 21 j 06:14	20° \approx 35'43		evening rise	481 Dec 21 j 05:17	10° Z 17'34	
evening max el	481 Jan 25 j 08:41	25° \approx 35'51	18°07'42		482 Jan 02 j 03:06	0° \approx	
retrograde	481 Jan 31 j 22:14	29° \approx 00'19		asc. node	482 Jan 08 j 03:17	8° \approx 06'43	
evening set	481 Feb 03 j 16:22	28° \approx 23'55		evening max el	482 Jan 08 j 21:13	8° \approx 54'03	18°19'05
inferior conj	481 Feb 10 j 03:00	23° \approx 19'06	3°47'11	retrograde	482 Jan 15 j 09:00	12° \approx 24'53	
minimum elong	481 Feb 10 j 03:39	23° \approx 17'26	3°47'10	evening set	482 Jan 18 j 07:50	11° \approx 38'12	

inferior conj	482 Jan 24 j 08:22	6° \approx 13'39	3°45'21	evening set	483 Jan 02 j 06:53	25° \approx 09'13	
minimum elong	482 Jan 24 j 07:12	6° \approx 16'58	3°45'16	inferior conj	483 Jan 08 j 00:15	19° \approx 27'17	3°27'34
min. Earth dist.	482 Jan 26 j 17:19	3° \approx 34'03	0.63733 AU	minimum elong	483 Jan 07 j 21:57	19° \approx 34'21	3°27'09
morning rise	482 Jan 30 j 05:53	0° \approx 10'02		min. Earth dist.	483 Jan 09 j 17:52	17° \approx 19'39	0.65282 AU
	482 Jan 30 j 10:57	30° \approx 8'3		morning rise	483 Jan 13 j 12:39	13° \approx 18'03	
direct	482 Feb 06 j 04:39	27° \approx 32'38		direct	483 Jan 20 j 04:15	10° \approx 32'04	
	482 Feb 13 j 15:49	0° \approx		morning max el	483 Feb 02 j 08:02	18° \approx 30'57	26°54'06
desc. node	482 Feb 16 j 10:53	2° \approx 04'05		desc. node	483 Feb 03 j 07:57	19° \approx 30'12	
morning max el	482 Feb 19 j 22:11	5° \approx 14'17	27°37'05		483 Feb 12 j 08:28	0° \approx	
	482 Mar 10 j 16:50	0° \approx			483 Mar 03 j 15:03	0° \approx	
morning set	482 Mar 26 j 16:03	28° \approx 8'27'28		morning set	483 Mar 10 j 03:01	11° \approx 58'13	
	482 Mar 27 j 10:36	0° \approx		max. Earth dist.	483 Mar 14 j 13:18	20° \approx 8'40'37	1.34298 AU
max. Earth dist.	482 Mar 31 j 19:13	8° \approx 9'57'38	1.33202 AU				
				superior conj	483 Mar 18 j 13:23	28° \approx 8'53'21	-0°54'30
superior conj	482 Apr 03 j 11:31	14° \approx 9'38'41	-0°27'26	minimum elong	483 Mar 18 j 16:01	29° \approx 8'07'07	0°54'00
minimum elong	482 Apr 03 j 12:51	14° \approx 9'45'49	0°27'10		483 Mar 19 j 02:09	0° \approx	
asc. node	482 Apr 06 j 02:35	20° \approx 9'17'40		asc. node	483 Mar 23 j 23:39	10° \approx 9'18'40	
evening rise	482 Apr 10 j 14:36	29° \approx 9'55'20		evening rise	483 Mar 26 j 00:33	14° \approx 9'34'47	
	482 Apr 10 j 15:29	0° \approx			483 Apr 02 j 21:51	0° \approx	
	482 Apr 27 j 18:47	0° \approx		evening max el	483 Apr 14 j 21:35	16° \approx 8'41'18	21°23'38
evening max el	482 May 03 j 00:54	5° \approx 11'56'54	22°55'06	retrograde	483 Apr 26 j 23:33	22° \approx 8'34'24	
desc. node	482 May 15 j 10:05	12° \approx 11'32'17		evening set	483 Apr 29 j 08:23	22° \approx 8'21'34	
retrograde	482 May 16 j 08:42	12° \approx 11'34'18		desc. node	483 May 02 j 07:07	21° \approx 8'32'40	
evening set	482 May 19 j 17:26	12° \approx 11'09'28		inferior conj	483 May 08 j 17:50	18° \approx 8'21'14	-1°49'57
min. Earth dist.	482 May 27 j 09:50	8° \approx 11'45'31	0.55517 AU	minimum elong	483 May 08 j 12:44	18° \approx 8'28'23	1°48'12
inferior conj	482 May 28 j 22:49	7° \approx 11'52'11	-3°32'28	min. Earth dist.	483 May 08 j 22:34	18° \approx 8'14'35	0.54966 AU
minimum elong	482 May 28 j 15:25	8° \approx 11'02'54	3°30'35	morning rise	483 May 17 j 17:35	14° \approx 8'21'43	
morning rise	482 Jun 06 j 15:52	3° \approx 11'58'53		direct	483 May 20 j 21:03	14° \approx 8'00'12	
direct	482 Jun 09 j 10:37	3° \approx 11'40'40		morning max el	483 Jun 02 j 10:53	19° \approx 8'58'02	22°11'50
morning max el	482 Jun 20 j 09:54	8° \approx 11'45'39	20°40'57		483 Jun 10 j 18:17	0° \approx	
asc. node	482 Jul 03 j 01:52	26° \approx 11'33'36		asc. node	483 Jun 19 j 22:55	15° \approx 11'56'23	
	482 Jul 04 j 22:01	0° \approx		morning set	483 Jun 23 j 21:51	23° \approx 11'58'11	
morning set	482 Jul 09 j 11:59	9° \approx 11'07'21			483 Jun 26 j 18:31	0° \approx	
superior conj	482 Jul 17 j 01:17	24° \approx 11'43'26	1°43'49	superior conj	483 Jul 01 j 03:16	9° \approx 15'38	1°34'22
minimum elong	482 Jul 17 j 00:01	24° \approx 11'36'55	1°43'46	minimum elong	483 Jul 01 j 01:05	9° \approx 15'04'12	1°34'10
	482 Jul 19 j 15:58	0° \approx		max. Earth dist.	483 Jul 04 j 10:23	16° \approx 15'07'32	1.34469 AU
max. Earth dist.	482 Jul 21 j 18:33	4° \approx 11'09'44	1.35964 AU	evening rise	483 Jul 09 j 03:02	25° \approx 15'30'44	
evening rise	482 Jul 25 j 20:31	11° \approx 11'57'02			483 Jul 11 j 11:20	0° \approx	
	482 Aug 05 j 04:52	0° \approx		desc. node	483 Jul 29 j 06:26	29° \approx 11'29'01	
desc. node	482 Aug 11 j 09:25	9° \approx 11'41'14			483 Jul 29 j 15:06	0° \approx	
	482 Aug 26 j 17:37	0° \approx		evening max el	483 Aug 13 j 00:26	17° \approx 11'28'09	27°03'12
evening max el	482 Aug 30 j 12:30	3° \approx 11'57'41	26°15'46	retrograde	483 Aug 26 j 06:34	24° \approx 11'46'40	
retrograde	482 Sep 12 j 04:38	11° \approx 11'07'47		evening set	483 Sep 02 j 03:33	22° \approx 11'01'24	
evening set	482 Sep 18 j 13:54	8° \approx 11'02'16		min. Earth dist.	483 Sep 06 j 00:28	18° \approx 11'12'48	0.65276 AU
min. Earth dist.	482 Sep 22 j 17:49	4° \approx 11'02'51	0.66402 AU	inferior conj	483 Sep 08 j 00:30	15° \approx 11'55'59	-2°33'47
inferior conj	482 Sep 24 j 05:24	2° \approx 11'13'14	-1°37'43	minimum elong	483 Sep 08 j 04:24	15° \approx 11'44'52	2°32'23
minimum elong	482 Sep 24 j 07:55	2° \approx 11'05'29	1°36'42	morning rise	483 Sep 14 j 05:57	10° \approx 11'19'45	
	482 Sep 26 j 01:51	30° \approx 11'8'11		asc. node	483 Sep 15 j 22:10	9° \approx 11'44'44	
asc. node	482 Sep 29 j 01:05	27° \approx 11'06'28		direct	483 Sep 17 j 00:25	9° \approx 11'38'13	
morning rise	482 Sep 30 j 02:20	26° \approx 11'23'54		morning max el	483 Sep 23 j 13:25	13° \approx 11'10'42	18°12'52
direct	482 Oct 03 j 04:12	25° \approx 11'29'54			483 Oct 05 j 10:29	0° \approx	
morning max el	482 Oct 09 j 23:35	29° \approx 11'17'02	18°48'13	morning set	483 Oct 12 j 03:33	11° \approx 11'01'30	
	482 Oct 10 j 16:04	0° \approx			483 Oct 23 j 20:01	0° \approx	
morning set	482 Oct 31 j 07:54	0° \approx 11'24'25		desc. node	483 Oct 25 j 05:45	2° \approx 11'14'28	
	482 Oct 31 j 01:44	0° \approx					
desc. node	482 Nov 07 j 08:45	11° \approx 11'30'35		superior conj	483 Oct 26 j 17:29	4° \approx 11'36'17	-0°09'51
max. Earth dist.	482 Nov 15 j 20:58	24° \approx 11'53'06	1.44995 AU	minimum elong	483 Oct 26 j 16:13	4° \approx 11'31'16	0°09'40
				behind sun begin	483 Oct 26 j 07:18	3° \approx 11'55'54	
superior conj	482 Nov 16 j 14:53	26° \approx 11'03'33	-0°58'33	behind sun end	483 Oct 27 j 01:08	5° \approx 11'06'36	
minimum elong	482 Nov 16 j 07:42	25° \approx 11'35'15	0°57'41	max. Earth dist.	483 Oct 29 j 15:34	9° \approx 11'13'10	1.44941 AU
	482 Nov 19 j 02:57	0° \approx			483 Nov 11 j 22:40	0° \approx	
evening rise	482 Dec 02 j 04:26	20° \approx 11'48'08		evening rise	483 Nov 12 j 04:27	0° \approx 11'22'30	
	482 Dec 07 j 21:23	0° \approx		greatest brilliancy	483 Nov 24 j 09:29	19° \approx 11'13'36	-0.7m
evening max el	482 Dec 23 j 08:20	22° \approx 11'31'09	18°48'39		483 Dec 01 j 20:31	0° \approx	
asc. node	482 Dec 26 j 00:22	24° \approx 11'38'13		evening max el	483 Dec 06 j 15:51	5° \approx 11'46'55	19°34'59
retrograde	482 Dec 30 j 02:29	26° \approx 11'30'16		asc. node	483 Dec 12 j 21:26	9° \approx 11'54'38	

retrograde	483 Dec 13 j 23:17	10° Z 01'08		max. Earth dist.	484 Oct 11 j 08:57	23° Z 26'05	1.44175 AU
evening set	483 Dec 17 j 10:50	8° Z 50'12			484 Oct 15 j 12:28	0° M	
inferior conj	483 Dec 22 j 23:24	2° Z 53'33	2°58'05	evening rise	484 Oct 21 j 13:26	9° M 23'38	
minimum elong	483 Dec 22 j 20:40	3° Z 02'32	2°57'23		484 Nov 04 j 04:58	0° Z	
min. Earth dist.	483 Dec 24 j 02:43	1° Z 24'14	0.66442 AU	evening max el	484 Nov 18 j 18:15	19° Z 15'57	20°35'48
	483 Dec 25 j 05:11	30° R Z		retrograde	484 Nov 26 j 20:56	24° Z 03'17	
morning rise	483 Dec 28 j 06:14	26° Z 41'15		asc. node	484 Nov 28 j 18:28	23° Z 42'55	
direct	484 Jan 03 j 09:54	23° Z 57'25		evening set	484 Nov 30 j 17:35	22° Z 37'31	
	484 Jan 14 j 10:12	0° Z		inferior conj	484 Dec 06 j 03:16	16° Z 29'08	2°19'52
morning max el	484 Jan 15 j 17:14	1° Z 15'49	25°46'13	minimum elong	484 Dec 06 j 00:40	16° Z 38'00	2°19'00
desc. node	484 Jan 21 j 04:59	7° Z 22'57		min. Earth dist.	484 Dec 06 j 17:48	15° Z 39'42	0.67218 AU
	484 Feb 06 j 09:30	0° \approx		morning rise	484 Dec 11 j 07:33	10° Z 15'49	
morning set	484 Feb 20 j 23:28	24° \approx 41'15		direct	484 Dec 16 j 20:43	7° Z 49'03	
	484 Feb 23 j 19:53	0° X		morning max el	484 Dec 28 j 01:29	14° Z 29'48	24°23'15
max. Earth dist.	484 Feb 24 j 19:18	1° X 51'19	1.35847 AU	desc. node	485 Jan 07 j 02:01	26° Z 25'32	
					485 Jan 09 j 17:24	0° Z	
superior conj	484 Mar 01 j 07:25	12° X 39'57	-1°20'11		485 Jan 29 j 06:56	0° \approx	
minimum elong	484 Mar 01 j 11:05	12° X 58'24	1°19'37	morning set	485 Feb 01 j 23:40	6° \approx 20'18	
evening rise	484 Mar 09 j 06:44	28° X 57'12		max. Earth dist.	485 Feb 05 j 16:14	12° \approx 53'39	1.37784 AU
asc. node	484 Mar 09 j 20:43	0° Y 08'15					
	484 Mar 09 j 19:05	0° Y		superior conj	485 Feb 12 j 14:15	25° \approx 49'10	-1°42'17
evening max el	484 Mar 27 j 05:11	27° Y 59'54	20°06'11	minimum elong	485 Feb 12 j 18:11	26° \approx 08'07	1°41'52
	484 Mar 29 j 13:16	0° Z			485 Feb 14 j 17:57	0° X	
retrograde	484 Apr 06 j 14:13	2° Z 59'12		evening rise	485 Feb 21 j 06:47	12° X 55'41	
evening set	484 Apr 08 j 16:11	2° Z 48'02		asc. node	485 Feb 24 j 17:45	19° X 41'01	
	484 Apr 15 j 14:40	30° R Y			485 Mar 02 j 11:31	0° Y	
inferior conj	484 Apr 17 j 14:57	28° Y 49'04	0°09'27	evening max el	485 Mar 09 j 23:53	9° Y 56'57	19°07'20
minimum elong	484 Apr 17 j 15:23	28° Y 48'25	0°09'18	retrograde	485 Mar 18 j 17:37	14° Y 09'48	
transit middle	484 Apr 17 j 15:23	28° Y 48'25	0°09'18	evening set	485 Mar 20 j 22:43	13° Y 54'46	
transit begin	484 Apr 17 j 12:08	28° Y 53'17		inferior conj	485 Mar 20 j 03:04	9° Y 42'34	1°52'41
transit end	484 Apr 17 j 18:38	28° Y 43'33		minimum elong	485 Mar 29 j 06:59	9° Y 35'49	1°51'28
desc. node	484 Apr 18 j 04:08	28° Y 29'16		min. Earth dist.	485 Apr 01 j 03:43	7° Y 38'51	0.56668 AU
min. Earth dist.	484 Apr 19 j 12:26	27° Y 41'03	0.55381 AU	desc. node	485 Apr 05 j 01:11	5° Y 23'31	
morning rise	484 Apr 26 j 12:38	24° Y 25'03		morning rise	485 Apr 06 j 12:19	4° Y 45'36	
direct	484 Apr 30 j 10:53	23° Y 51'15		direct	485 Apr 11 j 12:39	3° Y 46'52	
	484 May 13 j 11:41	0° Z		morning max el	485 Apr 25 j 18:18	11° Y 06'11	25°29'57
morning max el	484 May 14 j 03:49	0° Z 37'22	23°52'30		485 May 10 j 04:59	0° Z	
	484 Jun 03 j 00:27	0° II		morning set	485 May 22 j 21:18	23° Z 52'58	
asc. node	484 Jun 05 j 19:58	5° II 39'51		asc. node	485 May 23 j 16:59	25° Z 37'11	
morning set	484 Jun 07 j 09:32	8° II 55'30			485 May 25 j 17:56	0° II	
superior conj	484 Jun 14 j 10:35	24° II 04'10	1°19'47	superior conj	485 May 29 j 21:00	9° II 00'44	1°01'04
minimum elong	484 Jun 14 j 08:06	23° II 50'50	1°19'26	minimum elong	485 May 29 j 18:44	8° II 48'20	1°00'39
max. Earth dist.	484 Jun 16 j 11:45	28° II 27'53	1.33370 AU	max. Earth dist.	485 May 30 j 20:21	11° II 08'16	1.32662 AU
	484 Jun 17 j 05:06	0° Z		evening rise	485 Jun 05 j 23:19	24° II 11'38	
evening rise	484 Jun 21 j 21:10	9° Z 39'33			485 Jun 08 j 20:11	0° Z	
	484 Jul 02 j 20:11	0° Z			485 Jun 26 j 13:16	0° Z	
desc. node	484 Jul 15 j 03:27	18° Z 42'49		desc. node	485 Jul 02 j 00:28	7° Z 07'25	
	484 Jul 24 j 18:30	0° M		evening max el	485 Jul 07 j 19:24	13° Z 22'33	27°15'36
evening max el	484 Jul 25 j 11:34	0° M 41'18	27°24'58	retrograde	485 Jul 21 j 15:37	20° Z 39'03	
retrograde	484 Aug 08 j 02:31	8° M 00'29		evening set	485 Jul 28 j 19:08	18° Z 16'13	
evening set	484 Aug 15 j 06:36	5° M 19'58		min. Earth dist.	485 Aug 01 j 09:25	15° Z 27'37	0.61985 AU
min. Earth dist.	484 Aug 18 j 22:10	2° M 05'20	0.63793 AU	inferior conj	485 Aug 04 j 10:15	12° Z 40'59	-4°11'24
	484 Aug 20 j 22:51	30° R Z		minimum elong	485 Aug 04 j 14:55	12° Z 30'15	4°10'28
inferior conj	484 Aug 21 j 11:09	29° Z 28'03	-3°26'27	morning rise	485 Aug 11 j 12:08	7° Z 40'49	
minimum elong	484 Aug 21 j 15:57	29° Z 15'36	3°25'03	direct	485 Aug 13 j 23:30	7° Z 14'18	
morning rise	484 Aug 28 j 02:22	24° Z 08'07		asc. node	485 Aug 19 j 16:12	9° Z 38'42	
direct	484 Aug 30 j 15:58	23° Z 35'32		morning max el	485 Aug 20 j 20:05	10° Z 41'49	17°55'12
asc. node	484 Sep 01 j 19:11	23° Z 58'23			485 Sep 02 j 15:09	0° M	
morning max el	484 Sep 06 j 05:13	27° Z 01'29	17°54'53	morning set	485 Sep 05 j 20:25	5° M 48'43	
	484 Sep 08 j 19:46	0° M					
morning set	484 Sep 23 j 01:47	22° M 56'00		superior conj	485 Sep 16 j 14:40	24° M 56'01	1°11'29
	484 Sep 27 j 04:27	0° Z		minimum elong	485 Sep 16 j 19:31	25° M 16'53	1°10'56
					485 Sep 19 j 14:00	0° Z	
superior conj	484 Oct 05 j 14:31	14° Z 06'08	0°36'14	max. Earth dist.	485 Sep 23 j 22:29	7° Z 14'17	1.42784 AU
minimum elong	484 Oct 05 j 18:15	14° Z 21'26	0°35'44	desc. node	485 Sep 27 j 23:49	13° Z 47'51	
desc. node	484 Oct 11 j 02:47	23° Z 01'27		evening rise	485 Sep 30 j 23:41	18° Z 32'22	

	485 Oct 08 j 10:28	0°♍			486 Sep 12 j 01:25	0°♊	
	485 Oct 30 j 02:02	0°♊		desc. node	486 Sep 14 j 20:49	4°♊30'15	
evening max el	485 Nov 01 j 14:54	2°♊45'36	21°47'57		486 Oct 02 j 00:59	0°♍	
retrograde	485 Nov 10 j 17:36	8°♊10'47		evening max el	486 Oct 15 j 06:25	16°♍16'20	23°06'52
evening set	485 Nov 15 j 01:19	6°♊28'28		retrograde	486 Oct 25 j 11:48	22°♍20'09	
asc. node	485 Nov 15 j 15:28	5°♊58'19		evening set	486 Oct 30 j 08:21	20°♍20'09	
inferior conj	485 Nov 20 j 09:44	0°♊11'35	1°34'56	asc. node	486 Nov 02 j 12:30	16°♍54'50	
minimum elong	485 Nov 20 j 07:44	0°♊18'31	1°34'10	inferior conj	486 Nov 04 j 16:57	13°♍58'29	0°44'52
min. Earth dist.	485 Nov 20 j 12:49	0°♊00'56	0.67627 AU	minimum elong	486 Nov 04 j 15:55	14°♍02'03	0°44'26
	485 Nov 20 j 13:05	30°♋♍		min. Earth dist.	486 Nov 04 j 09:25	14°♍24'24	0.67700 AU
morning rise	485 Nov 25 j 14:00	23°♍59'10		morning rise	486 Nov 09 j 23:25	7°♍49'04	
direct	485 Nov 30 j 11:55	21°♍54'14		direct	486 Nov 14 j 06:42	6°♍06'52	
morning max el	485 Dec 10 j 11:11	27°♍49'06	22°55'18	morning max el	486 Nov 23 j 01:42	11°♍16'02	21°30'57
	485 Dec 12 j 12:32	0°♊			486 Dec 07 j 15:57	0°♊	
desc. node	485 Dec 24 j 23:04	16°♊03'05		desc. node	486 Dec 11 j 20:05	6°♊05'15	
	486 Jan 03 j 10:06	0°♊		morning set	486 Dec 24 j 14:16	25°♊37'25	
morning set	486 Jan 13 j 21:29	16°♊40'08			486 Dec 27 j 08:04	0°♊	
max. Earth dist.	486 Jan 18 j 11:54	24°♊25'52	1.39912 AU	max. Earth dist.	486 Dec 31 j 12:33	6°♊49'12	1.41946 AU
	486 Jan 21 j 16:37	0°♋					
superior conj	486 Jan 26 j 05:37	8°♋09'58	-1°57'46	superior conj	487 Jan 08 j 00:08	19°♊28'39	-2°02'36
minimum elong	486 Jan 26 j 08:20	8°♋22'27	1°57'39	minimum elong	487 Jan 07 j 23:28	19°♊25'45	2°02'35
evening rise	486 Feb 04 j 21:51	26°♋23'06			487 Jan 13 j 23:01	0°♋	
	486 Feb 06 j 19:27	0°♋		evening rise	487 Jan 19 j 00:18	9°♋10'29	
asc. node	486 Feb 11 j 14:47	8°♋51'03		asc. node	487 Jan 29 j 11:50	27°♋30'16	
evening max el	486 Feb 21 j 03:28	22°♋27'32	18°28'30		487 Jan 31 j 03:44	0°♋	
retrograde	486 Feb 28 j 16:04	26°♋09'31		evening max el	487 Feb 04 j 12:52	5°♋22'35	18°09'38
evening set	486 Mar 03 j 02:28	25°♋47'31		retrograde	487 Feb 11 j 07:55	8°♋49'31	
inferior conj	486 Mar 10 j 12:05	21°♋15'35	3°02'20	evening set	487 Feb 13 j 23:14	8°♋18'49	
minimum elong	486 Mar 10 j 15:58	21°♋07'47	3°01'32	inferior conj	487 Feb 20 j 17:13	3°♋25'58	3°38'40
min. Earth dist.	486 Mar 13 j 22:24	18°♋31'47	0.58538 AU	minimum elong	487 Feb 20 j 19:09	3°♋21'28	3°38'29
morning rise	486 Mar 18 j 02:48	15°♋48'58		min. Earth dist.	487 Feb 23 j 23:17	0°♋25'34	0.60645 AU
desc. node	486 Mar 22 j 22:13	14°♋18'42			487 Feb 24 j 11:01	30°♋♋	
direct	486 Mar 24 j 03:47	14°♋14'46		morning rise	487 Feb 27 j 13:14	27°♋39'02	
morning max el	486 Apr 07 j 12:20	21°♋53'48	26°48'42	direct	487 Mar 06 j 06:45	25°♋27'58	
	486 Apr 14 j 15:04	0°♋		desc. node	487 Mar 09 j 19:16	26°♋01'30	
	486 May 03 j 00:06	0°♋			487 Mar 16 j 19:45	0°♋	
morning set	486 May 07 j 07:35	8°♋45'09		morning max el	487 Mar 20 j 12:32	3°♋18'00	27°36'20
asc. node	486 May 10 j 14:02	15°♋43'32			487 Apr 09 j 03:23	0°♋	
				morning set	487 Apr 21 j 14:32	23°♋25'10	
superior conj	486 May 14 j 08:43	23°♋59'21	0°39'03		487 Apr 24 j 17:38	0°♋	
minimum elong	486 May 14 j 07:05	23°♋50'23	0°38'43	asc. node	487 Apr 27 j 11:06	5°♋53'48	
max. Earth dist.	486 May 14 j 08:42	23°♋59'18	1.32327 AU	max. Earth dist.	487 Apr 27 j 20:50	6°♋46'54	1.32355 AU
	486 May 17 j 02:29	0°♋					
evening rise	486 May 21 j 06:50	8°♋58'18		superior conj	487 Apr 28 j 20:02	8°♋53'43	0°14'30
	486 Jun 01 j 05:33	0°♋		minimum elong	487 Apr 28 j 19:22	8°♋50'07	0°14'21
desc. node	486 Jun 18 j 21:29	24°♋22'29		behind sun begin	487 Apr 28 j 17:13	8°♋38'22	
evening max el	486 Jun 19 j 21:17	25°♋20'39	26°33'03	behind sun end	487 Apr 28 j 21:31	9°♋01'53	
	486 Jun 25 j 19:04	0°♋		evening rise	487 May 05 j 17:27	23°♋51'31	
retrograde	486 Jul 03 j 20:56	2°♋34'36			487 May 08 j 16:31	0°♋	
evening set	486 Jul 10 j 12:39	0°♋42'23		evening max el	487 May 26 j 18:35	0°♋	
	486 Jul 11 j 17:22	30°♋♋		desc. node	487 Jun 01 j 16:10	6°♋33'16	25°21'09
min. Earth dist.	486 Jul 14 j 10:31	28°♋05'19	0.59959 AU	retrograde	487 Jun 05 j 18:30	9°♋59'50	
inferior conj	486 Jul 17 j 18:19	25°♋26'01	-4°41'40		487 Jun 15 j 16:54	13°♋42'42	
minimum elong	486 Jul 17 j 21:00	25°♋20'37	4°41'25	evening set	487 Jun 21 j 07:25	12°♋29'23	
morning rise	486 Jul 25 j 07:21	20°♋48'17		min. Earth dist.	487 Jun 26 j 04:04	9°♋45'23	0.57926 AU
direct	486 Jul 27 j 18:45	20°♋25'50		inferior conj	487 Jun 29 j 07:57	7°♋33'57	-4°46'34
morning max el	486 Aug 04 j 07:04	24°♋04'27	18°14'55	minimum elong	487 Jun 29 j 06:29	7°♋36'32	4°46'30
asc. node	486 Aug 06 j 13:14	26°♋31'35		morning rise	487 Jul 07 j 08:11	3°♋18'33	
	486 Aug 09 j 03:38	0°♋		direct	487 Jul 09 j 21:16	2°♋58'51	
morning set	486 Aug 20 j 05:50	19°♋23'58		morning max el	487 Jul 18 j 11:07	7°♋00'37	18°55'08
	486 Aug 25 j 20:43	0°♋		asc. node	487 Jul 24 j 10:19	14°♋22'13	
					487 Aug 02 j 06:39	0°♋	
superior conj	486 Aug 29 j 16:06	7°♋00'48	1°33'56	morning set	487 Aug 04 j 01:49	3°♋30'46	
minimum elong	486 Aug 29 j 19:33	7°♋16'28	1°33'39				
max. Earth dist.	486 Sep 06 j 06:22	20°♋22'24	1.40953 AU	superior conj	487 Aug 12 j 13:19	20°♋05'07	1°44'52
evening rise	486 Sep 11 j 03:15	28°♋29'46		minimum elong	487 Aug 12 j 14:41	20°♋11'36	1°44'49
					487 Aug 17 j 20:54	0°♋	

max. Earth dist.	487 Aug 19 j 09:45	2° \mathbb{M} 46'07	1.38931 AU		488 Jul 24 j 02:34	0° \mathcal{Q}	
evening rise	487 Aug 23 j 07:22	9° \mathbb{M} 36'34					
desc. node	487 Sep 01 j 17:51	25° \mathbb{M} 04'55		superior conj	488 Jul 26 j 00:55	3° \mathcal{Q} 52'57	1°46'24
	487 Sep 04 j 22:30	0° \mathcal{Q}		minimum elong	488 Jul 26 j 00:26	3° \mathcal{Q} 50'34	1°46'24
	487 Sep 27 j 22:39	0° \mathbb{M}		max. Earth dist.	488 Jul 31 j 13:58	14° \mathcal{Q} 40'48	1.36979 AU
evening max el	487 Sep 27 j 18:51	29° \mathcal{Q} 50'39	24°26'32	evening rise	488 Aug 04 j 10:42	21° \mathcal{Q} 50'06	
retrograde	487 Oct 09 j 02:24	6° \mathbb{M} 28'00			488 Aug 09 j 01:58	0° \mathbb{M}	
evening set	487 Oct 14 j 13:02	4° \mathbb{M} 10'41		desc. node	488 Aug 18 j 14:52	15° \mathbb{M} 26'36	
	487 Oct 18 j 07:34	30° \mathcal{R} \mathcal{Q}			488 Aug 28 j 18:57	0° \mathcal{Q}	
min. Earth dist.	487 Oct 19 j 05:17	28° \mathcal{Q} 48'19	0.67452 AU	evening max el	488 Sep 09 j 06:33	13° \mathcal{Q} 28'17	25°39'46
inferior conj	487 Oct 19 j 23:12	27° \mathcal{Q} 48'16	-0°08'55	retrograde	488 Sep 21 j 12:25	20° \mathcal{Q} 29'15	
minimum elong	487 Oct 19 j 23:25	27° \mathcal{Q} 47'32	0°08'50	evening set	488 Sep 27 j 13:34	17° \mathcal{Q} 56'49	
transit middle	487 Oct 19 j 23:25	27° \mathcal{Q} 47'32	0°08'50	min. Earth dist.	488 Oct 01 j 21:55	13° \mathcal{Q} 09'57	0.66882 AU
transit begin	487 Oct 19 j 21:07	27° \mathcal{Q} 55'15		inferior conj	488 Oct 03 j 02:42	11° \mathcal{Q} 37'55	-1°05'01
transit end	487 Oct 20 j 01:43	27° \mathcal{Q} 39'50		minimum elong	488 Oct 03 j 04:21	11° \mathcal{Q} 32'37	1°04'19
asc. node	487 Oct 20 j 09:32	27° \mathcal{Q} 13'42		asc. node	488 Oct 06 j 06:36	7° \mathcal{Q} 51'24	
morning rise	487 Oct 25 j 09:51	21° \mathcal{Q} 44'14		morning rise	488 Oct 08 j 19:22	5° \mathcal{Q} 42'08	
direct	487 Oct 29 j 04:05	20° \mathcal{Q} 23'11		direct	488 Oct 12 j 02:36	4° \mathcal{Q} 39'10	
morning max el	487 Nov 05 j 23:26	24° \mathcal{Q} 53'02	20°16'34	morning max el	488 Oct 19 j 04:42	8° \mathcal{Q} 39'04	19°15'56
	487 Nov 10 j 10:05	0° \mathbb{M}			488 Nov 03 j 16:00	0° \mathbb{M}	
desc. node	487 Nov 28 j 17:09	26° \mathbb{M} 25'19		morning set	488 Nov 11 j 14:14	12° \mathbb{M} 17'15	
	487 Dec 01 j 01:12	0° \mathcal{R}		desc. node	488 Nov 14 j 14:10	16° \mathbb{M} 57'33	
morning set	487 Dec 03 j 11:54	3° \mathcal{R} 46'17			488 Nov 22 j 22:07	0° \mathcal{R}	
max. Earth dist.	487 Dec 13 j 20:28	20° \mathcal{R} 04'26	1.43612 AU	max. Earth dist.	488 Nov 25 j 11:05	4° \mathcal{R} 00'07	1.44693 AU
superior conj	487 Dec 19 j 17:02	29° \mathcal{R} 35'33	-1°52'01	superior conj	488 Nov 28 j 08:12	8° \mathcal{R} 33'42	-1°22'53
minimum elong	487 Dec 19 j 11:22	29° \mathcal{R} 12'11	1°51'40	minimum elong	488 Nov 27 j 23:44	8° \mathcal{R} 00'07	1°22'01
	487 Dec 19 j 22:58	0° \mathcal{Q}			488 Dec 11 j 14:15	0° \mathcal{Q}	
evening rise	488 Jan 01 j 09:58	21° \mathcal{Q} 09'44		evening rise	488 Dec 12 j 22:31	2° \mathcal{Q} 13'08	
	488 Jan 06 j 12:10	0° \approx			488 Dec 30 j 19:27	0° \approx	
asc. node	488 Jan 16 j 08:52	15° \approx 29'28		evening max el	489 Jan 01 j 13:25	1° \approx 56'34	18°29'36
evening max el	488 Jan 19 j 01:07	18° \approx 34'32	18°10'15	asc. node	489 Jan 02 j 05:55	2° \approx 36'55	
retrograde	488 Jan 25 j 12:57	22° \approx 00'18		retrograde	489 Jan 08 j 02:53	5° \approx 33'11	
evening set	488 Jan 28 j 08:56	21° \approx 19'47		evening set	489 Jan 11 j 04:00	4° \approx 41'47	
inferior conj	488 Feb 03 j 14:55	16° \approx 06'37	3°48'40		489 Jan 16 j 07:54	30° \mathcal{R} \mathcal{Q}	
minimum elong	488 Feb 03 j 14:43	16° \approx 07'07	3°48'40	inferior conj	489 Jan 17 j 01:11	29° \mathcal{Q} 09'49	3°39'27
min. Earth dist.	488 Feb 06 j 08:42	13° \approx 13'42	0.62684 AU	minimum elong	489 Jan 16 j 23:26	29° \mathcal{Q} 14'55	3°39'14
morning rise	488 Feb 09 j 19:28	10° \approx 07'38		min. Earth dist.	489 Jan 19 j 03:38	26° \mathcal{Q} 42'33	0.64440 AU
direct	488 Feb 16 j 19:11	7° \approx 29'00		morning rise	489 Jan 22 j 18:22	23° \mathcal{Q} 03'41	
desc. node	488 Feb 24 j 16:20	10° \approx 17'05		direct	489 Jan 29 j 15:02	20° \mathcal{Q} 12'23	
morning max el	488 Mar 01 j 18:13	15° \approx 22'33	27°47'08	desc. node	489 Feb 10 j 13:24	26° \mathcal{Q} 30'00	
	488 Mar 13 j 17:23	0° \mathcal{H}		morning max el	489 Feb 12 j 03:09	28° \mathcal{Q} 01'01	27°22'23
	488 Mar 31 j 17:21	0° \mathcal{Y}			489 Feb 14 j 00:52	0° \approx	
morning set	488 Apr 04 j 16:02	7° \mathcal{Y} 45'40			489 Mar 07 j 10:58	0° \mathcal{H}	
max. Earth dist.	488 Apr 10 j 04:52	19° \mathcal{Y} 17'42	1.32771 AU	morning set	489 Mar 19 j 09:21	21° \mathcal{H} 38'00	
					489 Mar 23 j 13:23	0° \mathcal{Y}	
superior conj	488 Apr 12 j 05:14	23° \mathcal{Y} 37'57	-0°11'51	max. Earth dist.	489 Mar 24 j 05:02	1° \mathcal{Y} 20'38	1.33612 AU
minimum elong	488 Apr 12 j 05:48	23° \mathcal{Y} 41'00	0°11'43				
behind sun begin	488 Apr 12 j 02:16	23° \mathcal{Y} 21'53		superior conj	489 Mar 27 j 10:28	8° \mathcal{Y} 06'02	-0°38'58
behind sun end	488 Apr 12 j 09:20	24° \mathcal{Y} 00'07		minimum elong	489 Mar 27 j 12:22	8° \mathcal{Y} 16'05	0°38'34
asc. node	488 Apr 13 j 08:10	26° \mathcal{Y} 03'52		asc. node	489 Mar 31 j 05:14	16° \mathcal{Y} 09'48	
	488 Apr 15 j 03:40	0° \mathcal{B}		evening rise	489 Apr 03 j 16:30	23° \mathcal{Y} 31'34	
evening rise	488 Apr 19 j 05:17	8° \mathcal{B} 44'38			489 Apr 06 j 20:00	0° \mathcal{B}	
	488 Apr 30 j 07:22	0° \mathbb{I}		evening max el	489 Apr 24 j 23:25	27° \mathcal{B} 49'03	22°15'03
evening max el	488 May 13 j 06:46	17° \mathbb{I} 13'36	23°50'17		489 Apr 27 j 10:59	0° \mathbb{I}	
desc. node	488 May 22 j 15:32	23° \mathbb{I} 23'43		retrograde	489 May 07 j 20:14	4° \mathbb{I} 08'57	
retrograde	488 May 27 j 00:56	24° \mathbb{I} 07'35		desc. node	489 May 09 j 12:35	4° \mathbb{I} 02'38	
evening set	488 May 31 j 04:46	23° \mathbb{I} 29'23		evening set	489 May 10 j 16:50	3° \mathbb{I} 50'55	
min. Earth dist.	488 Jun 06 j 17:40	20° \mathbb{I} 23'16	0.56216 AU	min. Earth dist.	489 May 19 j 06:04	0° \mathbb{I} 10'56	0.55173 AU
inferior conj	488 Jun 09 j 01:26	18° \mathbb{I} 58'16	-4°12'58		489 May 19 j 13:50	30° \mathcal{R} \mathcal{B}	
minimum elong	488 Jun 08 j 19:18	19° \mathbb{I} 07'41	4°11'52	inferior conj	489 May 20 j 01:59	29° \mathcal{B} 42'52	-2°53'16
morning rise	488 Jun 17 j 12:36	14° \mathbb{I} 59'46		minimum elong	489 May 19 j 18:52	29° \mathcal{B} 52'55	2°51'07
direct	488 Jun 20 j 04:40	14° \mathbb{I} 41'32		morning rise	489 May 28 j 22:35	25° \mathcal{B} 49'08	
morning max el	488 Jun 30 j 05:25	19° \mathbb{I} 20'19	19°56'26	direct	489 May 31 j 20:21	25° \mathcal{B} 30'03	
	488 Jul 08 j 12:56	0° \mathcal{Q}			489 Jun 11 j 10:39	0° \mathbb{I}	
asc. node	488 Jul 10 j 07:23	2° \mathcal{Q} 56'58		morning max el	489 Jun 12 j 12:27	0° \mathbb{I} 57'11	21°17'39
morning set	488 Jul 18 j 05:05	18° \mathcal{Q} 00'07		asc. node	489 Jun 27 j 04:28	22° \mathbb{I} 05'14	

	489 Jul 01 j 04:55	0°☿		asc. node	490 Jun 14 j 01:31	11°♊37'33	
morning set	489 Jul 02 j 13:10	2°☿45'26		morning set	490 Jun 17 j 00:02	17°♊39'45	
					490 Jun 22 j 18:57	0°☿	
superior conj	489 Jul 09 j 22:37	18°☿12'11	1°40'30				
minimum elong	489 Jul 09 j 20:53	18°☿03'13	1°40'24	superior conj	490 Jun 24 j 03:10	2°☿52'04	1°28'45
max. Earth dist.	489 Jul 14 j 00:59	26°☿33'10	1.35290 AU	minimum elong	490 Jun 24 j 00:48	2°☿39'28	1°28'29
	489 Jul 15 j 18:48	0°♌		max. Earth dist.	490 Jun 26 j 21:13	8°☿40'45	1.33959 AU
evening rise	489 Jul 18 j 08:45	4°♌58'45		evening rise	490 Jul 01 j 20:41	18°☿48'25	
	489 Aug 01 j 21:01	0°♍			490 Jul 07 j 18:25	0°♌	
desc. node	489 Aug 05 j 11:52	5°♍29'09		desc. node	490 Jul 23 j 08:54	25°♌03'53	
evening max el	489 Aug 22 j 18:36	27°♍04'24	26°38'39		490 Jul 27 j 00:56	0°♍	
	489 Aug 26 j 01:58	0°♎		evening max el	490 Aug 05 j 06:24	10°♍28'46	27°15'50
retrograde	489 Sep 04 j 17:11	4°♎18'18		retrograde	490 Aug 18 j 16:26	17°♍47'39	
evening set	489 Sep 11 j 07:52	1°♎35'34		evening set	490 Aug 25 j 17:23	15°♍02'48	
	489 Sep 13 j 01:07	30°♎		min. Earth dist.	490 Aug 29 j 11:43	11°♍29'31	0.64696 AU
min. Earth dist.	489 Sep 15 j 08:50	27°♎25'44	0.65973 AU	inferior conj	490 Aug 31 j 17:18	9°♎02'59	-2°56'45
inferior conj	489 Sep 17 j 01:29	25°♎24'20	-2°01'42	minimum elong	490 Aug 31 j 21:40	8°♎51'00	2°55'17
minimum elong	489 Sep 17 j 04:37	25°♎14'58	2°00'29	morning rise	490 Sep 07 j 02:47	3°♎33'27	
morning rise	489 Sep 23 j 01:50	19°♎39'58		direct	490 Sep 09 j 18:58	2°♎56'01	
asc. node	489 Sep 23 j 03:40	19°♎37'31		asc. node	490 Sep 10 j 00:43	2°♎56'20	
direct	489 Sep 26 j 00:22	18°♎51'33		morning max el	490 Sep 16 j 07:05	6°♎24'21	18°03'04
morning max el	489 Oct 02 j 16:03	22°♎31'08	18°31'03		490 Oct 02 j 01:53	0°♎	
	489 Oct 08 j 15:11	0°♏		morning set	490 Oct 04 j 00:44	3°♎16'53	
morning set	489 Oct 22 j 17:07	22°♏04'45					
	489 Oct 27 j 15:51	0°♐		superior conj	490 Oct 17 j 17:30	25°♏48'48	0°10'42
desc. node	489 Nov 01 j 11:10	7°♐37'58		minimum elong	490 Oct 17 j 18:47	25°♏53'57	0°10'32
				behind sun begin	490 Oct 17 j 10:40	25°♏21'24	
superior conj	489 Nov 07 j 09:03	16°♐57'19	-0°38'20	behind sun end	490 Oct 18 j 02:54	26°♏26'28	
minimum elong	489 Nov 07 j 04:03	16°♐37'41	0°37'41	desc. node	490 Oct 19 j 08:11	28°♏23'30	
max. Earth dist.	489 Nov 08 j 05:40	18°♐18'21	1.45067 AU		490 Oct 20 j 08:25	0°♐	
	489 Nov 15 j 16:16	0°♑		max. Earth dist.	490 Oct 22 j 00:33	2°♐39'07	1.44698 AU
evening rise	489 Nov 23 j 11:24	12°♑18'01		evening rise	490 Nov 03 j 03:31	21°♐34'32	
greatest brilliancy	489 Dec 02 j 18:32	26°♑59'26	-0.8m		490 Nov 08 j 14:57	0°♑	
	489 Dec 04 j 16:59	0°♒		greatest brilliancy	490 Nov 16 j 23:21	12°♑37'51	-0.6m
evening max el	489 Dec 15 j 23:14	15°♒22'51	19°06'29	evening max el	490 Nov 29 j 04:39	28°♑50'52	19°59'13
asc. node	489 Dec 20 j 02:57	18°♒38'03			490 Nov 30 j 08:51	0°♒	
retrograde	489 Dec 22 j 22:03	19°♒20'44		retrograde	490 Dec 06 j 19:34	3°♒18'38	
evening set	489 Dec 26 j 05:24	18°♒17'13		asc. node	490 Dec 06 j 23:59	3°♒18'27	
inferior conj	489 Dec 31 j 20:27	12°♒28'36	3°16'17	evening set	490 Dec 10 j 10:47	2°♒01'28	
minimum elong	489 Dec 31 j 17:52	12°♒36'44	3°15'44		490 Dec 12 j 16:27	30°♒♑	
min. Earth dist.	490 Jan 02 j 07:43	10°♒37'08	0.65822 AU	inferior conj	490 Dec 15 j 21:52	25°♑59'10	2°42'48
morning rise	490 Jan 06 j 06:06	6°♒18'05		minimum elong	490 Dec 15 j 19:07	26°♑08'20	2°42'01
direct	490 Jan 12 j 17:06	3°♒28'26		min. Earth dist.	490 Dec 16 j 19:28	24°♑47'05	0.66811 AU
morning max el	490 Jan 25 j 12:47	11°♒01'17	26°27'52	morning rise	490 Dec 21 j 03:16	19°♑46'10	
desc. node	490 Jan 28 j 10:25	14°♒06'41		direct	490 Dec 27 j 00:48	17°♑09'05	
	490 Feb 09 j 15:55	0°♓		morning max el	491 Jan 07 j 21:41	24°♑13'03	25°12'20
	490 Feb 28 j 00:13	0°♈			491 Jan 13 j 02:32	0°♒	
morning set	490 Mar 02 j 14:42	4°♈49'46		desc. node	491 Jan 15 j 07:25	2°♒43'03	
max. Earth dist.	490 Mar 06 j 18:11	12°♈49'24	1.34905 AU		491 Feb 03 j 02:14	0°♓	
				morning set	491 Feb 13 j 03:17	17°♓07'29	
superior conj	490 Mar 11 j 09:20	22°♈09'36	-1°05'39	max. Earth dist.	491 Feb 16 j 20:02	23°♓54'00	1.36630 AU
minimum elong	490 Mar 11 j 12:28	22°♈25'43	1°05'06		491 Feb 20 j 01:10	0°♈	
	490 Mar 15 j 03:59	0°♉					
asc. node	490 Mar 18 j 02:16	6°♉06'28		superior conj	491 Feb 22 j 23:01	5°♈41'02	-1°30'07
evening rise	490 Mar 19 j 01:06	8°♉04'41		minimum elong	491 Feb 23 j 02:56	6°♈00'23	1°29'37
	490 Mar 30 j 23:02	0°♊		evening rise	491 Mar 03 j 05:00	22°♈17'43	
evening max el	490 Apr 07 j 00:23	8°♊46'00	20°48'35	asc. node	491 Mar 04 j 23:18	25°♈49'25	
retrograde	490 Apr 18 j 09:16	14°♊16'20			491 Mar 07 j 02:29	0°♉	
evening set	490 Apr 20 j 13:37	14°♊04'58		evening max el	491 Mar 20 j 12:43	20°♉20'17	19°38'43
desc. node	490 Apr 26 j 09:38	11°♊59'50		retrograde	491 Mar 30 j 04:27	24°♉58'51	
inferior conj	490 Apr 29 j 20:00	10°♊07'04	-0°59'18	evening set	491 Apr 01 j 06:55	24°♉46'37	
minimum elong	490 Apr 29 j 17:12	10°♊11'05	0°58'18	inferior conj	491 Apr 09 j 22:15	20°♉42'58	0°56'42
min. Earth dist.	490 Apr 30 j 18:51	9°♊34'29	0.55031 AU	minimum elong	491 Apr 10 j 00:37	20°♉39'14	0°55'53
morning rise	490 May 08 j 20:16	5°♊59'31		min. Earth dist.	491 Apr 12 j 09:11	19°♉10'11	0.55834 AU
direct	490 May 12 j 06:32	5°♊34'11		desc. node	491 Apr 13 j 06:39	18°♉37'42	
morning max el	490 May 25 j 09:22	11°♊52'59	22°54'03	morning rise	491 Apr 18 j 15:45	16°♉05'02	
	490 Jun 07 j 20:47	0°♋		direct	491 Apr 23 j 00:20	15°♉22'32	

morning max el	491 May 07 j 00:41	22° Υ 24'48	24°35'14	direct	492 Apr 03 j 08:06	25° X 28'22	
	491 May 13 j 17:24	0° X			492 Apr 14 j 06:44	0° Υ	
	491 May 31 j 05:45	0° Π		morning max el	492 Apr 17 j 16:09	2° Υ 58'30	26°06'35
asc. node	491 May 31 j 22:32	1° Π 27'24			492 May 06 j 23:54	0° X	
morning set	491 Jun 01 j 11:56	2° Π 37'40		morning set	492 May 15 j 23:17	17° X 33'47	
				asc. node	492 May 17 j 19:36	21° X 29'18	
					492 May 21 j 17:29	0° Π	
superior conj	491 Jun 08 j 12:02	17° Π 44'42	1°12'19				
minimum elong	491 Jun 08 j 09:36	17° Π 31'27	1°11'55				
max. Earth dist.	491 Jun 10 j 01:55	21° Π 09'42	1.33022 AU	superior conj	492 May 22 j 23:16	2° Π 43'24	0°52'07
	491 Jun 14 j 06:01	0° X		minimum elong	492 May 22 j 21:13	2° Π 32'11	0°51'43
evening rise	491 Jun 15 j 18:34	3° X 07'51		max. Earth dist.	492 May 23 j 12:23	3° Π 55'23	1.32468 AU
	491 Jun 30 j 13:24	0° Ω		evening rise	492 May 29 j 23:18	17° Π 47'27	
desc. node	491 Jul 10 j 05:57	13° Ω 58'46			492 Jun 05 j 02:39	0° X	
evening max el	491 Jul 18 j 16:13	23° Ω 28'52	27°24'52		492 Jun 24 j 10:32	0° Ω	
	491 Jul 28 j 04:54	0° X		desc. node	492 Jun 26 j 02:58	1° Ω 57'21	
retrograde	491 Aug 01 j 09:44	0° X 47'43		evening max el	492 Jun 29 j 21:47	5° Ω 53'20	27°01'32
	491 Aug 05 j 10:00	30° X 0		retrograde	492 Jul 13 j 20:05	13° Ω 09'27	
evening set	491 Aug 08 j 14:47	28° Ω 12'39		evening set	492 Jul 20 j 19:56	10° Ω 58'13	
min. Earth dist.	491 Aug 12 j 04:55	25° Ω 10'44	0.63060 AU	min. Earth dist.	492 Jul 24 j 11:58	8° Ω 16'25	0.61136 AU
inferior conj	491 Aug 14 j 23:24	22° Ω 27'27	-3°46'51	inferior conj	492 Jul 27 j 16:38	5° Ω 30'24	-4°26'36
minimum elong	491 Aug 15 j 04:20	22° Ω 15'18	3°45'35	minimum elong	492 Jul 27 j 20:44	5° Ω 21'28	4°25'58
morning rise	491 Aug 21 j 19:08	17° Ω 15'54		morning rise	492 Aug 03 j 23:15	0° Ω 39'33	
direct	491 Aug 24 j 07:25	16° Ω 46'18		direct	492 Aug 06 j 10:12	0° Ω 15'07	
asc. node	491 Aug 27 j 21:44	17° Ω 48'09		morning max el	492 Aug 13 j 12:36	3° Ω 46'27	18°01'06
morning max el	491 Aug 30 j 22:56	20° Ω 11'50	17°52'45	asc. node	492 Aug 13 j 18:47	4° Ω 01'40	
	491 Sep 07 j 06:04	0° X		morning set	492 Aug 29 j 09:59	28° Ω 50'52	
morning set	491 Sep 16 j 08:23	15° X 37'54			492 Aug 30 j 00:58	0° X	
	491 Sep 24 j 14:28	0° Ω					
				superior conj	492 Sep 08 j 13:25	17° X 16'11	1°22'31
superior conj	491 Sep 28 j 01:51	5° Ω 52'19	0°52'45	minimum elong	492 Sep 08 j 17:52	17° X 35'45	1°22'04
minimum elong	491 Sep 28 j 06:30	6° Ω 11'44	0°52'09		492 Sep 15 j 23:48	0° Ω	
max. Earth dist.	491 Oct 04 j 16:18	16° Ω 42'26	1.43644 AU	max. Earth dist.	492 Sep 16 j 03:02	0° Ω 13'25	1.42048 AU
desc. node	491 Oct 06 j 05:13	19° Ω 10'34		evening rise	492 Sep 22 j 02:55	9° Ω 58'40	
evening rise	491 Oct 13 j 10:43	0° X 32'35		desc. node	492 Sep 22 j 02:16	9° Ω 56'07	
	491 Oct 13 j 02:18	0° X			492 Oct 05 j 05:19	0° X	
	491 Nov 02 j 07:22	0° X		evening max el	492 Oct 24 j 22:49	25° X 49'30	22°21'00
evening max el	491 Nov 12 j 04:28	12° X 19'17	21°05'20		492 Oct 29 j 22:47	0° X	
retrograde	491 Nov 20 j 17:07	17° X 22'58		retrograde	492 Nov 03 j 12:53	1° X 31'26	
asc. node	491 Nov 23 j 21:01	16° X 26'41			492 Nov 07 j 16:31	30° X 0	
evening set	491 Nov 24 j 18:08	15° X 50'27		evening set	492 Nov 08 j 01:46	29° X 41'55	
inferior conj	491 Nov 30 j 03:04	9° X 37'49	2°01'30	asc. node	492 Nov 09 j 18:02	28° X 05'24	
minimum elong	491 Nov 30 j 00:40	9° X 46'04	2°00'40	inferior conj	492 Nov 13 j 10:07	23° X 22'38	1°14'15
min. Earth dist.	491 Nov 30 j 12:36	9° X 05'03	0.67429 AU	minimum elong	492 Nov 13 j 08:29	23° X 28'17	1°13'35
morning rise	491 Dec 05 j 07:02	3° X 24'23		min. Earth dist.	492 Nov 13 j 08:42	23° X 27'30	0.67702 AU
direct	491 Dec 10 j 13:37	1° X 06'35		morning rise	492 Nov 18 j 15:02	17° X 10'58	
morning max el	491 Dec 21 j 06:15	7° X 29'11	23°45'52	direct	492 Nov 23 j 06:38	15° X 15'31	
desc. node	492 Jan 02 j 04:27	22° X 01'32		morning max el	492 Dec 02 j 17:25	20° X 50'36	22°18'22
	492 Jan 07 j 19:50	0° X			492 Dec 10 j 11:49	0° X	
morning set	492 Jan 25 j 16:56	28° X 14'02		desc. node	492 Dec 19 j 01:30	11° X 50'30	
	492 Jan 26 j 17:39	0° \approx			492 Dec 31 j 02:32	0° X	
max. Earth dist.	492 Jan 29 j 14:59	5° \approx 02'22	1.38675 AU	morning set	493 Jan 05 j 02:07	7° X 56'53	
				max. Earth dist.	493 Jan 10 j 11:35	16° X 52'11	1.40807 AU
superior conj	492 Feb 05 j 23:47	18° \approx 30'11	-1°49'53	superior conj	493 Jan 18 j 06:56	0° \approx 25'53	-2°01'25
minimum elong	492 Feb 06 j 03:26	18° \approx 47'24	1°49'36	minimum elong	493 Jan 18 j 08:30	0° \approx 32'55	2°01'23
	492 Feb 11 j 23:14	0° X			493 Jan 18 j 01:08	0° \approx	
evening rise	492 Feb 15 j 01:33	6° X 03'06		evening rise	493 Jan 28 j 11:40	19° \approx 13'44	
asc. node	492 Feb 19 j 20:20	15° X 12'56			493 Feb 03 j 07:46	0° X	
	492 Feb 29 j 03:45	0° Υ		asc. node	493 Feb 05 j 17:22	4° X 10'29	
evening max el	492 Mar 02 j 11:31	2° Υ 32'05	18°48'26	evening max el	493 Feb 13 j 18:00	15° X 14'05	18°18'08
retrograde	492 Mar 10 j 15:37	6° Υ 29'49		retrograde	493 Feb 20 j 21:35	18° X 47'24	
evening set	492 Mar 12 j 22:47	6° Υ 12'14		evening set	493 Feb 23 j 10:16	18° X 21'45	
inferior conj	492 Mar 20 j 18:58	1° Υ 52'25	2°26'33	inferior conj	493 Mar 02 j 12:48	13° X 41'11	3°21'29
minimum elong	492 Mar 20 j 23:15	1° Υ 44'35	2°25'25	minimum elong	493 Mar 02 j 15:58	13° X 34'23	3°20'58
	492 Mar 23 j 08:19	30° X 0		min. Earth dist.	493 Mar 05 j 22:51	10° X 47'06	0.59424 AU
min. Earth dist.	492 Mar 24 j 01:56	29° X 28'49	0.57404 AU	morning rise	493 Mar 09 j 19:20	8° X 05'03	
morning rise	492 Mar 28 j 20:39	26° X 41'33		direct	493 Mar 16 j 04:51	6° X 14'20	
desc. node	492 Mar 30 j 03:39	26° X 11'25					

desc. node	493 Mar 17 j 00:42	6° X 16'09		direct	494 Feb 26 j 11:55	17° \approx 48'54	
morning max el	493 Mar 30 j 12:21	13° X 58'50	27°13'20	desc. node	494 Mar 03 j 21:45	19° \approx 08'11	
	493 Apr 12 j 07:46	0° Y		morning max el	494 Mar 12 j 15:03	25° \approx 40'23	27°45'37
	493 Apr 29 j 05:04	0° X			494 Mar 16 j 15:27	0° X	
morning set	493 Apr 30 j 08:22	2° X 21'14			494 Apr 05 j 18:22	0° Y	
asc. node	493 May 04 j 16:39	11° X 37'41		morning set	494 Apr 14 j 13:17	16° Y 53'46	
				max. Earth dist.	494 Apr 20 j 12:05	29° Y 29'02	1.32485 AU
					494 Apr 20 j 17:48	0° X	
superior conj	493 May 07 j 11:00	17° X 40'52	0°28'55	superior conj	494 Apr 21 j 21:37	2° X 31'28	0°03'30
minimum elong	493 May 07 j 09:45	17° X 33'58	0°28'39	minimum elong	494 Apr 21 j 21:28	2° X 30'35	0°03'29
max. Earth dist.	493 May 07 j 01:03	16° X 46'11	1.32288 AU	behind sun begin	494 Apr 21 j 16:28	2° X 03'21	
	493 May 13 j 02:39	0° II		behind sun end	494 Apr 22 j 02:27	2° X 57'50	
evening rise	493 May 14 j 08:23	2° II 37'53		asc. node	494 Apr 21 j 13:43	1° X 48'24	
	493 May 29 j 02:46	0° X		evening rise	494 Apr 28 j 19:46	17° X 32'01	
evening max el	493 Jun 11 j 20:56	17° X 32'46	26°05'47		494 May 04 j 23:47	0° II	
desc. node	493 Jun 13 j 00:00	18° X 35'15		evening max el	494 May 24 j 13:28	28° II 28'58	24°44'01
retrograde	493 Jun 25 j 21:38	24° X 44'48			494 May 26 j 05:23	0° X	
evening set	493 Jul 02 j 04:06	23° X 09'04		desc. node	494 May 30 j 21:01	3° X 20'26	
min. Earth dist.	493 Jul 06 j 09:41	20° X 31'04	0.59079 AU	retrograde	494 Jun 07 j 12:18	5° X 33'03	
inferior conj	493 Jul 09 j 17:19	18° X 01'20	-4°47'37	evening set	494 Jun 12 j 12:57	4° X 35'49	
minimum elong	493 Jul 09 j 18:29	17° X 59'08	4°47'35	min. Earth dist.	494 Jun 18 j 00:48	1° X 44'14	0.57145 AU
morning rise	493 Jul 17 j 11:04	13° X 32'55		inferior conj	494 Jun 20 j 22:21	29° II 50'48	-4°37'46
direct	493 Jul 19 j 23:01	13° X 11'44		minimum elong	494 Jun 20 j 18:44	29° II 56'45	4°37'24
morning max el	493 Jul 27 j 20:58	16° X 58'52	18°29'21		494 Jun 20 j 16:45	30° R II	
asc. node	493 Jul 31 j 15:51	21° X 20'54		morning rise	494 Jun 29 j 03:16	25° II 43'38	
	493 Aug 06 j 04:41	0° Q		direct	494 Jul 01 j 17:42	25° II 24'34	
morning set	493 Aug 13 j 00:24	12° Q 41'07		morning max el	494 Jul 10 j 21:03	29° II 39'56	19°18'38
					494 Jul 11 j 05:30	0° X	
superior conj	493 Aug 21 j 23:58	29° Q 48'06	1°39'50	asc. node	494 Jul 18 j 12:56	9° X 31'31	
minimum elong	493 Aug 22 j 02:32	0° Q 00'03	1°39'41	morning set	494 Jul 27 j 23:49	26° X 58'30	
	493 Aug 22 j 02:32	0° Q			494 Jul 29 j 12:11	0° Q	
max. Earth dist.	493 Aug 29 j 08:52	13° Q 03'08	1.40112 AU	superior conj	494 Aug 05 j 03:52	13° Q 12'34	1°46'32
evening rise	493 Sep 02 j 16:43	20° Q 25'09		minimum elong	494 Aug 05 j 04:24	13° Q 15'06	1°46'32
desc. node	493 Sep 08 j 23:19	0° Q 35'57		max. Earth dist.	494 Aug 11 j 12:20	25° Q 13'41	1.38085 AU
	493 Sep 08 j 14:13	0° Q			494 Aug 14 j 03:44	0° Q	
	493 Sep 29 j 09:56	0° Q		evening rise	494 Aug 15 j 07:06	2° Q 01'02	
evening max el	493 Oct 07 j 12:58	9° Q 22'28	23°41'04	desc. node	494 Aug 26 j 20:21	21° Q 05'51	
retrograde	493 Oct 18 j 05:34	15° Q 40'42			494 Sep 01 j 18:40	0° Q	
evening set	493 Oct 23 j 08:01	13° Q 33'22		evening max el	494 Sep 20 j 00:50	22° Q 58'24	24°58'51
asc. node	493 Oct 27 j 15:04	8° Q 39'45		retrograde	494 Oct 01 j 18:10	29° Q 46'37	
min. Earth dist.	493 Oct 28 j 05:17	7° Q 51'38	0.67642 AU	evening set	494 Oct 07 j 11:10	27° Q 22'15	
inferior conj	493 Oct 28 j 17:09	7° Q 11'08	0°22'27	min. Earth dist.	494 Oct 11 j 23:57	22° Q 15'03	0.67258 AU
minimum elong	493 Oct 28 j 16:37	7° Q 12'58	0°22'13	inferior conj	494 Oct 12 j 22:27	21° Q 00'59	-0°32'31
morning rise	493 Nov 03 j 01:10	1° Q 03'45		minimum elong	494 Oct 12 j 23:16	20° Q 58'19	0°32'11
	493 Nov 04 j 19:34	30° R Q		asc. node	494 Oct 14 j 12:08	18° Q 59'21	
direct	493 Nov 07 j 02:48	29° Q 30'39		morning rise	494 Oct 18 j 11:29	15° Q 00'22	
	493 Nov 09 j 12:53	0° Q		direct	494 Oct 22 j 00:47	13° Q 47'29	
morning max el	493 Nov 15 j 10:46	4° Q 21'30	20°57'44	morning max el	494 Oct 29 j 11:52	18° Q 02'57	19°48'56
	493 Dec 04 j 14:07	0° X			494 Nov 07 j 21:35	0° Q	
desc. node	493 Dec 05 j 22:34	2° X 01'21		desc. node	494 Nov 22 j 19:35	22° Q 27'13	
morning set	493 Dec 15 j 08:33	16° X 26'43		morning set	494 Nov 24 j 05:02	24° Q 36'18	
max. Earth dist.	493 Dec 23 j 15:46	29° X 40'43	1.42721 AU		494 Nov 27 j 16:31	0° X	
	493 Dec 23 j 20:30	0° X		max. Earth dist.	494 Dec 06 j 03:20	13° X 17'17	1.44155 AU
superior conj	493 Dec 30 j 15:06	11° X 15'39	-2°00'15	superior conj	494 Dec 10 j 20:28	20° X 51'03	-1°41'55
minimum elong	493 Dec 30 j 12:22	11° X 04'04	2°00'10	minimum elong	494 Dec 10 j 13:00	20° X 20'51	1°41'20
	494 Jan 10 j 08:42	0° \approx			494 Dec 16 j 10:37	0° X	
evening rise	494 Jan 11 j 07:33	1° \approx 42'05		evening rise	494 Dec 24 j 08:45	13° X 18'42	
asc. node	494 Jan 23 j 14:25	22° \approx 34'10			495 Jan 03 j 07:05	0° \approx	
evening max el	494 Jan 28 j 05:02	28° \approx 17'45	18°07'33	asc. node	495 Jan 10 j 11:28	10° \approx 12'55	
	494 Jan 30 j 04:33	0° X		evening max el	495 Jan 11 j 17:34	11° \approx 34'20	18°16'11
retrograde	494 Feb 03 j 19:40	1° X 42'25		retrograde	495 Jan 18 j 05:09	15° \approx 03'39	
evening set	494 Feb 06 j 13:06	1° X 07'30		evening set	495 Jan 21 j 03:11	14° \approx 18'37	
	494 Feb 08 j 13:45	30° R \approx		inferior conj	495 Jan 27 j 05:01	8° \approx 56'54	3°46'44
inferior conj	494 Feb 13 j 01:30	26° \approx 05'37	3°45'42	minimum elong	495 Jan 27 j 04:05	8° \approx 59'31	3°46'41
minimum elong	494 Feb 13 j 02:29	26° \approx 03'10	3°45'38				
min. Earth dist.	494 Feb 16 j 02:53	23° \approx 06'02	0.61537 AU				
morning rise	494 Feb 19 j 14:28	20° \approx 13'00					

min. Earth dist.	495 Jan 29 j 16:17	6° \approx 13'21	0.63472 AU	morning rise	496 Jan 16 j 09:03	15° \mathfrak{Z} 59'14	
morning rise	495 Feb 02 j 04:13	2° \approx 54'14		direct	496 Jan 23 j 02:08	13° \mathfrak{Z} 06'54	
direct	495 Feb 09 j 03:24	0° \approx 08'40		morning max el	496 Feb 05 j 08:19	20° \mathfrak{Z} 51'12	27°02'13
desc. node	495 Feb 18 j 18:47	4° \approx 18'02		desc. node	496 Feb 05 j 15:49	21° \mathfrak{Z} 10'08	
morning max el	495 Feb 22 j 22:39	8° \approx 01'17	27°40'46		496 Feb 13 j 06:50	0° \approx	
	495 Mar 11 j 21:57	0° \mathfrak{H}			496 Mar 04 j 00:32	0° \mathfrak{H}	
	495 Mar 28 j 22:56	0° \mathfrak{Y}		morning set	496 Mar 12 j 00:21	14° \mathfrak{H} 39'46	
morning set	495 Mar 29 j 11:38	1° \mathfrak{Y} 03'08		max. Earth dist.	496 Mar 16 j 12:59	23° \mathfrak{H} 37'13	1.34104 AU
max. Earth dist.	495 Apr 03 j 17:22	11° \mathfrak{Y} 49'33	1.33077 AU		496 Mar 19 j 15:25	0° \mathfrak{Y}	
superior conj	495 Apr 06 j 05:20	17° \mathfrak{Y} 08'57	-0°23'20	superior conj	496 Mar 20 j 08:07	1° \mathfrak{Y} 27'12	-0°50'27
minimum elong	495 Apr 06 j 06:28	17° \mathfrak{Y} 15'00	0°23'05	minimum elong	496 Mar 20 j 10:34	1° \mathfrak{Y} 40'03	0°49'59
asc. node	495 Apr 08 j 10:47	21° \mathfrak{Y} 56'53		asc. node	496 Mar 25 j 07:49	11° \mathfrak{Y} 59'12	
	495 Apr 12 j 04:36	0° \mathfrak{B}		evening rise	496 Mar 27 j 17:50	17° \mathfrak{Y} 04'10	
evening rise	495 Apr 13 j 07:32	2° \mathfrak{B} 22'47			496 Apr 03 j 05:53	0° \mathfrak{B}	
	495 Apr 28 j 14:31	0° \mathfrak{II}		evening max el	496 Apr 16 j 23:11	19° \mathfrak{B} 43'09	21°36'34
evening max el	495 May 06 j 03:43	9° \mathfrak{II} 01'48	23°09'20	retrograde	496 Apr 29 j 06:34	25° \mathfrak{B} 43'36	
desc. node	495 May 17 j 18:01	15° \mathfrak{II} 36'33		evening set	496 May 01 j 17:46	25° \mathfrak{B} 29'51	
retrograde	495 May 19 j 14:48	15° \mathfrak{II} 44'28		desc. node	496 May 03 j 15:03	25° \mathfrak{B} 01'56	
evening set	495 May 23 j 04:12	15° \mathfrak{II} 16'40		inferior conj	496 May 11 j 03:40	21° \mathfrak{B} 28'06	-2°07'24
min. Earth dist.	495 May 30 j 13:19	11° \mathfrak{II} 57'41	0.55669 AU	minimum elong	496 May 10 j 21:54	21° \mathfrak{B} 36'12	2°05'28
inferior conj	495 Jun 01 j 07:39	10° \mathfrak{II} 55'50	-3°44'41	min. Earth dist.	496 May 11 j 02:00	21° \mathfrak{B} 30'26	0.54985 AU
minimum elong	495 Jun 01 j 00:24	11° \mathfrak{II} 06'28	3°42'58	morning rise	496 May 20 j 02:48	17° \mathfrak{B} 30'37	
morning rise	495 Jun 09 j 23:15	7° \mathfrak{II} 01'47		direct	496 May 23 j 04:31	17° \mathfrak{B} 09'56	
direct	495 Jun 12 j 17:08	6° \mathfrak{II} 43'43		morning max el	496 Jun 04 j 13:04	23° \mathfrak{B} 00'08	21°57'27
morning max el	495 Jun 23 j 10:37	11° \mathfrak{II} 41'37	20°28'54		496 Jun 10 j 16:15	0° \mathfrak{II}	
asc. node	495 Jul 05 j 10:00	28° \mathfrak{II} 21'27		asc. node	496 Jun 21 j 07:03	17° \mathfrak{II} 40'38	
	495 Jul 06 j 07:37	0° \mathfrak{E}		morning set	496 Jun 25 j 14:48	26° \mathfrak{II} 24'43	
morning set	495 Jul 12 j 05:23	11° \mathfrak{E} 35'22			496 Jun 27 j 07:54	0° \mathfrak{E}	
superior conj	495 Jul 19 j 20:13	27° \mathfrak{E} 15'24	1°44'43	superior conj	496 Jul 02 j 21:09	11° \mathfrak{E} 44'24	1°36'10
minimum elong	495 Jul 19 j 19:08	27° \mathfrak{E} 09'53	1°44'41	minimum elong	496 Jul 02 j 19:04	11° \mathfrak{E} 33'31	1°35'59
	495 Jul 21 j 04:49	0° \mathfrak{O}		max. Earth dist.	496 Jul 06 j 09:04	18° \mathfrak{E} 58'57	1.34664 AU
max. Earth dist.	495 Jul 24 j 18:38	7° \mathfrak{O} 03'34	1.36211 AU	evening rise	496 Jul 10 j 23:23	28° \mathfrak{E} 07'01	
evening rise	495 Jul 28 j 18:57	14° \mathfrak{O} 39'27			496 Jul 11 j 22:56	0° \mathfrak{O}	
	495 Aug 06 j 13:15	0° \mathfrak{N}			496 Jul 29 j 18:26	0° \mathfrak{N}	
desc. node	495 Aug 13 j 17:21	11° \mathfrak{N} 20'37		desc. node	496 Jul 30 j 14:22	1° \mathfrak{N} 12'37	
	495 Aug 27 j 10:49	0° \mathfrak{A}		evening max el	496 Aug 15 j 00:24	20° \mathfrak{N} 08'21	26°57'40
evening max el	495 Sep 02 j 12:25	6° \mathfrak{A} 35'59	26°06'57	retrograde	496 Aug 28 j 04:51	27° \mathfrak{N} 26'04	
retrograde	495 Sep 15 j 02:10	13° \mathfrak{A} 44'22		evening set	496 Sep 04 j 00:16	24° \mathfrak{N} 41'15	
evening set	495 Sep 21 j 09:21	11° \mathfrak{A} 06'26		min. Earth dist.	496 Sep 07 j 22:13	20° \mathfrak{N} 47'06	0.65465 AU
min. Earth dist.	495 Sep 25 j 14:22	6° \mathfrak{A} 35'26	0.66537 AU	inferior conj	496 Sep 09 j 20:17	18° \mathfrak{N} 34'07	-2°25'27
inferior conj	495 Sep 27 j 00:11	4° \mathfrak{A} 50'09	-1°29'06	minimum elong	496 Sep 09 j 24:00	18° \mathfrak{N} 23'25	2°24'04
minimum elong	495 Sep 27 j 02:29	4° \mathfrak{A} 43'01	1°28'10	morning rise	496 Sep 16 j 00:22	12° \mathfrak{N} 55'34	
asc. node	495 Oct 01 j 09:11	0° \mathfrak{A} 01'51		asc. node	496 Sep 17 j 06:14	12° \mathfrak{N} 25'51	
	495 Oct 01 j 10:04	30° \mathfrak{R} \mathfrak{N}		direct	496 Sep 18 j 19:46	12° \mathfrak{N} 12'23	
morning rise	495 Oct 02 j 19:58	28° \mathfrak{N} 59'04		morning max el	496 Sep 25 j 09:19	15° \mathfrak{N} 46'34	18°17'02
direct	495 Oct 05 j 23:08	28° \mathfrak{N} 02'55			496 Oct 05 j 16:45	0° \mathfrak{A}	
	495 Oct 10 j 17:32	0° \mathfrak{A}		morning set	496 Oct 14 j 07:43	14° \mathfrak{A} 01'19	
morning max el	495 Oct 12 j 20:05	1° \mathfrak{A} 53'11	18°54'52		496 Oct 24 j 04:38	0° \mathfrak{M}	
	495 Nov 01 j 09:19	0° \mathfrak{M}		desc. node	496 Oct 26 j 13:39	3° \mathfrak{M} 47'10	
morning set	495 Nov 03 j 16:22	3° \mathfrak{M} 36'40		superior conj	496 Oct 29 j 04:49	7° \mathfrak{M} 57'25	-0°17'21
desc. node	495 Nov 09 j 16:38	13° \mathfrak{M} 03'54		minimum elong	496 Oct 29 j 02:33	7° \mathfrak{M} 48'30	0°17'01
max. Earth dist.	495 Nov 18 j 19:49	27° \mathfrak{M} 24'30	1.44942 AU	max. Earth dist.	496 Oct 31 j 14:24	11° \mathfrak{M} 44'27	1.45001 AU
superior conj	495 Nov 20 j 03:22	29° \mathfrak{M} 28'41	-1°05'22		496 Nov 12 j 06:20	0° \mathfrak{J}	
minimum elong	495 Nov 19 j 19:37	28° \mathfrak{M} 58'11	1°04'28	evening rise	496 Nov 14 j 14:34	3° \mathfrak{J} 39'36	
	495 Nov 20 j 11:19	0° \mathfrak{J}		greatest brilliancy	496 Nov 26 j 02:58	21° \mathfrak{J} 32'25	-0.7m
evening rise	495 Dec 05 j 11:24	23° \mathfrak{J} 57'39			496 Dec 01 j 20:06	0° \mathfrak{Z}	
	495 Dec 09 j 04:43	0° \mathfrak{Z}		evening max el	496 Dec 08 j 13:12	8° \mathfrak{Z} 26'22	19°27'07
evening max el	495 Dec 26 j 05:01	24° \mathfrak{Z} 58'32	18°43'08	asc. node	496 Dec 14 j 05:30	12° \mathfrak{Z} 22'59	
asc. node	495 Dec 28 j 08:29	26° \mathfrak{Z} 54'07		retrograde	496 Dec 15 j 18:10	12° \mathfrak{Z} 35'57	
retrograde	496 Jan 01 j 21:46	28° \mathfrak{Z} 43'24		evening set	496 Dec 19 j 04:36	11° \mathfrak{Z} 27'00	
evening set	496 Jan 05 j 01:14	27° \mathfrak{Z} 47'11		inferior conj	496 Dec 24 j 17:45	5° \mathfrak{Z} 32'28	3°03'09
inferior conj	496 Jan 10 j 19:32	22° \mathfrak{Z} 07'49	3°31'02	minimum elong	496 Dec 24 j 15:02	5° \mathfrak{Z} 41'17	3°02'29
minimum elong	496 Jan 10 j 17:21	22° \mathfrak{Z} 14'26	3°30'42	min. Earth dist.	496 Dec 25 j 23:06	3° \mathfrak{Z} 57'16	0.66297 AU
min. Earth dist.	496 Jan 12 j 15:27	19° \mathfrak{Z} 54'43	0.65079 AU		496 Dec 29 j 08:33	30° \mathfrak{R} \mathfrak{J}	

morning rise	496 Dec 30 j 01:13	29°♂20'37		asc. node	497 Dec 01 j 02:31	26°♂25'28	
direct	497 Jan 05 j 06:56	26°♂34'53		evening set	497 Dec 03 j 11:03	25°♂13'46	
	497 Jan 13 j 07:25	0°♂		inferior conj	497 Dec 08 j 21:02	19°♂06'52	2°26'07
morning max el	497 Jan 17 j 17:35	3°♂57'23	25°57'33	minimum elong	497 Dec 08 j 18:23	19°♂15'52	2°25'17
desc. node	497 Jan 22 j 12:51	9°♂15'01		min. Earth dist.	497 Dec 09 j 13:20	18°♂11'40	0.67126 AU
	497 Feb 06 j 15:29	0°♂		morning rise	497 Dec 14 j 01:32	12°♂53'41	
morning set	497 Feb 22 j 23:17	27°♂31'08		direct	497 Dec 19 j 16:56	10°♂24'07	
	497 Feb 24 j 07:17	0°♂		morning max el	497 Dec 31 j 01:56	17°♂10'55	24°36'13
max. Earth dist.	497 Feb 26 j 20:44	4°♂52'09	1.35587 AU	desc. node	498 Jan 09 j 09:53	28°♂11'16	
					498 Jan 10 j 18:41	0°♂	
superior conj	497 Mar 04 j 03:31	15°♂19'02	-1°16'26		498 Jan 30 j 15:52	0°♂	
minimum elong	497 Mar 04 j 07:04	15°♂36'59	1°15'53	morning set	498 Feb 05 j 02:53	9°♂20'43	
	497 Mar 11 j 07:09	0°♂		max. Earth dist.	498 Feb 08 j 18:52	15°♂54'40	1.37479 AU
evening rise	497 Mar 12 j 00:43	1°♂30'01					
asc. node	497 Mar 12 j 04:50	1°♂51'03		superior conj	498 Feb 15 j 12:16	28°♂34'25	-1°39'16
	497 Mar 29 j 06:33	0°♂		minimum elong	498 Feb 15 j 16:14	28°♂53'42	1°38'50
evening max el	497 Mar 30 j 05:07	0°♂56'40	20°16'38		498 Feb 16 j 05:52	0°♂	
retrograde	497 Apr 09 j 20:18	6°♂03'41		evening rise	498 Feb 24 j 01:52	15°♂32'38	
evening set	497 Apr 11 j 22:31	5°♂52'39		asc. node	498 Feb 27 j 01:52	21°♂26'44	
inferior conj	497 Apr 20 j 23:36	1°♂54'32	-0°08'18		498 Mar 03 j 16:47	0°♂	
minimum elong	497 Apr 20 j 23:13	1°♂55'06	0°08'10	evening max el	498 Mar 12 j 22:13	12°♂47'49	19°14'50
transit middle	497 Apr 20 j 23:13	1°♂55'06	0°08'10	retrograde	498 Mar 21 j 21:19	17°♂06'59	
transit begin	497 Apr 20 j 19:46	2°♂00'12		evening set	498 Mar 24 j 01:40	16°♂52'45	
transit end	497 Apr 21 j 02:41	1°♂50'00		inferior conj	498 Apr 01 j 08:54	12°♂42'54	1°38'58
desc. node	497 Apr 20 j 12:04	2°♂11'32		minimum elong	498 Apr 01 j 12:33	12°♂36'47	1°37'49
min. Earth dist.	497 Apr 22 j 15:36	0°♂55'38	0.55262 AU	min. Earth dist.	498 Apr 04 j 06:30	10°♂46'56	0.56431 AU
	497 Apr 24 j 06:46	30°♂		desc. node	498 Apr 07 j 09:06	8°♂57'01	
morning rise	497 Apr 29 j 22:18	27°♂35'17		morning rise	498 Apr 09 j 20:33	7°♂50'55	
direct	497 May 03 j 17:15	27°♂04'00		direct	498 Apr 14 j 16:43	6°♂56'55	
	497 May 12 j 14:57	0°♂		morning max el	498 Apr 28 j 21:22	14°♂12'01	25°16'13
morning max el	497 May 17 j 06:51	3°♂43'18	23°37'16		498 May 11 j 08:35	0°♂	
	497 Jun 04 j 10:55	0°♂		morning set	498 May 25 j 14:11	26°♂19'25	
asc. node	497 Jun 08 j 04:06	7°♂21'37		asc. node	498 May 26 j 01:09	27°♂17'19	
morning set	497 Jun 10 j 02:18	11°♂21'31			498 May 27 j 07:39	0°♂	
superior conj	497 Jun 17 j 03:48	26°♂30'54	1°22'18	superior conj	498 Jun 01 j 13:54	11°♂26'40	1°04'08
minimum elong	497 Jun 17 j 01:21	26°♂17'40	1°21'57	minimum elong	498 Jun 01 j 11:34	11°♂13'59	1°03'44
	497 Jun 18 j 18:52	0°♂		max. Earth dist.	498 Jun 02 j 16:59	13°♂54'20	1.32747 AU
max. Earth dist.	497 Jun 19 j 09:12	1°♂16'13	1.33513 AU	evening rise	498 Jun 08 j 17:11	26°♂40'27	
evening rise	497 Jun 24 j 16:02	12°♂11'20			498 Jun 10 j 08:25	0°♂	
	497 Jul 04 j 04:44	0°♂			498 Jun 27 j 14:24	0°♂	
desc. node	497 Jul 17 j 11:24	20°♂32'09		desc. node	498 Jul 04 j 08:25	9°♂05'15	
	497 Jul 25 j 03:57	0°♂		evening max el	498 Jul 10 j 20:19	16°♂11'23	27°19'01
evening max el	497 Jul 28 j 11:51	3°♂24'50	27°23'34	retrograde	498 Jul 24 j 15:44	23°♂28'19	
retrograde	497 Aug 11 j 01:36	10°♂43'45		evening set	498 Jul 31 j 20:04	21°♂01'48	
evening set	497 Aug 18 j 05:04	8°♂01'51		min. Earth dist.	498 Aug 04 j 10:04	18°♂10'15	0.62273 AU
min. Earth dist.	497 Aug 21 j 21:19	4°♂42'30	0.64038 AU	inferior conj	498 Aug 07 j 09:23	15°♂24'02	-4°05'24
inferior conj	497 Aug 24 j 08:20	2°♂07'49	-3°18'54	minimum elong	498 Aug 07 j 14:10	15°♂12'49	4°04'22
minimum elong	497 Aug 24 j 13:04	1°♂55'24	3°17'27	morning rise	498 Aug 14 j 09:39	10°♂20'53	
	497 Aug 26 j 10:41	30°♂		direct	498 Aug 16 j 21:13	9°♂53'36	
morning rise	497 Aug 30 j 22:02	26°♂45'12		asc. node	498 Aug 22 j 00:20	11°♂53'02	
direct	497 Sep 02 j 12:16	26°♂11'24		morning max el	498 Aug 23 j 16:11	13°♂20'12	17°54'00
asc. node	497 Sep 04 j 03:16	26°♂24'51			498 Sep 04 j 00:01	0°♂	
morning max el	497 Sep 09 j 00:56	29°♂37'40	17°56'25	morning set	498 Sep 08 j 18:17	8°♂30'21	
	497 Sep 09 j 09:42	0°♂					
morning set	497 Sep 26 j 02:18	25°♂45'11		superior conj	498 Sep 19 j 18:14	27°♂54'00	1°06'59
	497 Sep 28 j 13:54	0°♂		minimum elong	498 Sep 19 j 23:07	28°♂14'53	1°06'23
					498 Sep 20 j 23:51	0°♂	
superior conj	497 Oct 08 j 22:07	17°♂15'50	0°29'52	max. Earth dist.	498 Sep 26 j 22:44	9°♂53'50	1.43020 AU
minimum elong	497 Oct 09 j 01:20	17°♂28'57	0°29'25	desc. node	498 Sep 30 j 07:44	15°♂20'41	
desc. node	497 Oct 13 j 10:40	24°♂33'47		evening rise	498 Oct 04 j 09:49	21°♂48'12	
max. Earth dist.	497 Oct 14 j 08:20	26°♂00'12	1.44332 AU		498 Oct 09 j 17:22	0°♂	
	497 Oct 16 j 20:51	0°♂			498 Oct 30 j 20:08	0°♂	
evening rise	497 Oct 25 j 00:54	12°♂43'27		evening max el	498 Nov 04 j 13:54	5°♂24'55	21°36'37
	497 Nov 05 j 10:01	0°♂		retrograde	498 Nov 13 j 12:50	10°♂44'32	
evening max el	497 Nov 21 j 16:26	21°♂55'23	20°25'57	evening set	498 Nov 17 j 18:46	9°♂04'43	
retrograde	497 Nov 29 j 15:50	26°♂37'19		asc. node	498 Nov 17 j 23:33	8°♂55'00	

inferior conj	498 Nov 23 j 03:16	2°♌48'44	1°42'08	asc. node	499 Nov 04 j 20:37	20°♍01'32	
minimum elong	498 Nov 23 j 01:08	2°♌56'04	1°41'20	inferior conj	499 Nov 07 j 10:30	16°♍35'14	0°52'46
min. Earth dist.	498 Nov 23 j 07:56	2°♌32'33	0.67585 AU	minimum elong	499 Nov 07 j 09:18	16°♍39'23	0°52'15
	498 Nov 25 j 05:10	30°♍		min. Earth dist.	499 Nov 07 j 04:33	16°♍55'47	0.67707 AU
morning rise	498 Nov 28 j 07:22	26°♍36'02		morning rise	499 Nov 12 j 16:29	10°♍25'05	
direct	498 Dec 03 j 07:29	24°♍27'48		direct	499 Nov 17 j 01:51	8°♍39'31	
	498 Dec 12 j 23:17	0°♌		morning max el	499 Nov 26 j 00:54	13°♍55'28	21°42'58
morning max el	498 Dec 13 j 11:19	0°♌29'56	23°08'24		499 Dec 08 j 19:25	0°♌	
desc. node	498 Dec 27 j 06:56	17°♌44'23		desc. node	499 Dec 14 j 03:59	7°♌43'23	
	499 Jan 04 j 16:29	0°♍		morning set	499 Dec 28 j 01:54	29°♌02'00	
morning set	499 Jan 17 j 05:00	19°♍53'20			499 Dec 28 j 16:26	0°♍	
max. Earth dist.	499 Jan 21 j 14:17	27°♍20'36	1.39595 AU	max. Earth dist.	500 Jan 03 j 13:34	9°♍34'21	1.41660 AU
	499 Jan 23 j 02:52	0°♍					
				superior conj	500 Jan 11 j 04:13	22°♍31'51	-2°02'46
superior conj	499 Jan 29 j 06:14	11°♍03'06	-1°56'01	minimum elong	500 Jan 11 j 04:12	22°♍31'50	2°02'45
minimum elong	499 Jan 29 j 09:17	11°♍17'08	1°55'51		500 Jan 15 j 09:20	0°♍	
evening rise	499 Feb 07 j 18:30	29°♍05'15		evening rise	500 Jan 21 j 23:04	11°♍59'04	
	499 Feb 08 j 05:55	0°♌		asc. node	500 Jan 31 j 19:57	29°♍25'08	
asc. node	499 Feb 13 j 22:55	10°♌40'37			500 Feb 01 j 04:46	0°♌	
evening max el	499 Feb 24 j 00:37	25°♌13'36	18°32'58	evening max el	500 Feb 07 j 09:22	8°♌05'47	18°11'12
retrograde	499 Mar 03 j 16:55	28°♌59'16		retrograde	500 Feb 14 j 06:20	11°♌33'55	
evening set	499 Mar 06 j 02:26	28°♌38'30		evening set	500 Feb 16 j 20:57	11°♌04'37	
inferior conj	499 Mar 13 j 14:43	24°♌09'44	2°54'02	inferior conj	500 Feb 23 j 17:02	6°♌15'02	3°35'02
minimum elong	499 Mar 13 j 18:46	24°♌01'46	2°53'07	minimum elong	500 Feb 23 j 19:19	6°♌09'51	3°34'46
min. Earth dist.	499 Mar 17 j 00:36	21°♌30'25	0.58236 AU	min. Earth dist.	500 Feb 27 j 00:30	3°♌15'19	0.60329 AU
morning rise	499 Mar 21 j 08:18	18°♌46'46		morning rise	500 Mar 01 j 15:41	0°♌30'33	
desc. node	499 Mar 25 j 06:08	17°♌28'22			500 Mar 02 j 12:32	30°♌	
direct	499 Mar 27 j 05:56	17°♌18'12		direct	500 Mar 08 j 07:28	28°♍24'23	
morning max el	499 Apr 10 j 14:41	24°♌55'24	26°38'44	desc. node	500 Mar 11 j 03:10	28°♍45'52	
	499 Apr 15 j 06:59	0°♌			500 Mar 14 j 09:18	0°♌	
	499 May 04 j 11:03	0°♌		morning max el	500 Mar 22 j 13:52	6°♌13'32	27°31'33
morning set	499 May 10 j 00:49	11°♌12'49			500 Apr 09 j 09:40	0°♌	
asc. node	499 May 12 j 22:13	17°♌22'35		morning set	500 Apr 23 j 08:26	25°♌55'29	
					500 Apr 25 j 07:07	0°♌	
superior conj	499 May 17 j 01:33	26°♌25'29	0°42'34	asc. node	500 Apr 28 j 19:17	7°♌32'53	
minimum elong	499 May 16 j 23:48	26°♌15'52	0°42'13	max. Earth dist.	500 Apr 29 j 17:19	9°♌33'11	1.32321 AU
max. Earth dist.	499 May 17 j 04:57	26°♌44'10	1.32351 AU				
	499 May 18 j 16:38	0°♍		superior conj	500 Apr 30 j 13:05	11°♌21'24	0°18'21
evening rise	499 May 24 j 00:03	11°♍25'22		minimum elong	500 Apr 30 j 12:15	11°♌16'53	0°18'11
	499 Jun 02 j 13:32	0°♍		evening rise	500 May 07 j 10:22	26°♌18'33	
desc. node	499 Jun 21 j 05:27	26°♍32'37			500 May 09 j 04:44	0°♍	
evening max el	499 Jun 22 j 23:06	28°♍16'11	26°41'24		500 May 26 j 13:11	0°♍	
	499 Jun 24 j 21:10	0°♍		evening max el	500 Jun 03 j 19:05	9°♍36'10	25°33'29
retrograde	499 Jul 06 j 22:29	5°♍31'00		desc. node	500 Jun 07 j 02:28	12°♍27'29	
evening set	499 Jul 13 j 16:46	3°♍33'24		retrograde	500 Jun 17 j 20:10	16°♍46'41	
min. Earth dist.	499 Jul 17 j 12:36	0°♍55'45	0.60264 AU	evening set	500 Jun 23 j 15:07	15°♍27'37	
	499 Jul 18 j 16:29	30°♌		min. Earth dist.	500 Jun 28 j 07:15	12°♍45'39	0.58216 AU
inferior conj	499 Jul 20 j 19:56	28°♍13'59	-4°38'28	inferior conj	500 Jul 01 j 12:35	10°♍28'48	-4°48'04
minimum elong	499 Jul 20 j 23:05	28°♍07'32	4°38'09	minimum elong	500 Jul 01 j 11:51	10°♍30'07	4°48'03
morning rise	499 Jul 28 j 07:20	23°♍32'58		morning rise	500 Jul 09 j 11:08	6°♍10'07	
direct	499 Jul 30 j 18:31	23°♍10'06		direct	500 Jul 11 j 23:49	5°♍50'06	
morning max el	499 Aug 07 j 04:01	26°♍46'27	18°10'43	morning max el	500 Jul 20 j 09:20	9°♍47'49	18°47'44
asc. node	499 Aug 08 j 21:25	28°♍36'17		asc. node	500 Jul 25 j 18:30	16°♍19'39	
	499 Aug 10 j 00:54	0°♍			500 Aug 02 j 17:18	0°♍	
morning set	499 Aug 23 j 01:50	22°♍00'10		morning set	500 Aug 05 j 20:30	6°♍03'22	
	499 Aug 27 j 08:02	0°♌					
				superior conj	500 Aug 14 j 10:54	22°♍45'30	1°43'50
superior conj	499 Sep 01 j 16:15	9°♌48'45	1°31'18	minimum elong	500 Aug 14 j 12:34	22°♍53'26	1°43'47
minimum elong	499 Sep 01 j 19:59	10°♌05'36	1°30'59		500 Aug 18 j 08:06	0°♌	
max. Earth dist.	499 Sep 09 j 07:11	23°♌07'30	1.41241 AU	max. Earth dist.	500 Aug 21 j 10:57	5°♌37'24	1.39239 AU
	499 Sep 13 j 10:25	0°♌		evening rise	500 Aug 25 j 10:33	12°♌33'13	
evening rise	499 Sep 14 j 10:06	1°♌36'27		desc. node	500 Sep 03 j 01:48	26°♌40'27	
desc. node	499 Sep 17 j 04:46	6°♌04'04			500 Sep 05 j 05:13	0°♌	
	499 Oct 03 j 04:00	0°♍			500 Sep 27 j 09:42	0°♍	
evening max el	499 Oct 18 j 06:02	18°♍55'11	22°54'55	evening max el	500 Sep 29 j 18:51	2°♍29'13	24°14'55
retrograde	499 Oct 28 j 07:32	24°♍53'46		retrograde	500 Oct 10 j 22:42	9°♍01'56	
evening set	499 Nov 02 j 02:01	22°♍56'30		evening set	500 Oct 16 j 07:09	6°♍47'17	

min. Earth dist.	500 Oct 21 j 00:42	1°♍19'44	0.67512 AU		501 Aug 29 j 20:15	0°♊	
inferior conj	500 Oct 21 j 17:01	0°♍24'44	-0°00'34	evening max el	501 Sep 12 j 06:37	16°♊06'56	25°29'33
minimum elong	500 Oct 21 j 17:02	0°♍24'42	0°00'34	retrograde	501 Sep 24 j 09:20	23°♊04'38	
transit middle	500 Oct 21 j 17:02	0°♍24'42	0°00'34	evening set	501 Sep 30 j 08:24	20°♊34'14	
transit begin	500 Oct 21 j 14:18	0°♍33'54		min. Earth dist.	501 Oct 04 j 17:55	15°♊42'01	0.66993 AU
transit end	500 Oct 21 j 19:45	0°♍15'30		inferior conj	501 Oct 05 j 21:01	14°♊14'41	-0°56'26
asc. node	500 Oct 21 j 17:41	0°♍22'30		minimum elong	501 Oct 05 j 22:27	14°♊10'04	0°55'50
	500 Oct 22 j 00:22	30°♋♊		asc. node	501 Oct 08 j 14:44	10°♊53'50	
morning rise	500 Oct 27 j 02:55	24°♊19'39		morning rise	501 Oct 11 j 12:41	8°♊17'31	
direct	500 Oct 30 j 23:00	22°♊55'31		direct	501 Oct 14 j 21:28	7°♊12'02	
morning max el	500 Nov 07 j 21:24	27°♊30'34	20°26'44	morning max el	501 Oct 22 j 01:35	11°♊15'31	19°23'57
	500 Nov 10 j 04:20	0°♍			501 Nov 04 j 21:41	0°♍	
desc. node	500 Nov 30 j 01:02	28°♍01'06		morning set	501 Nov 15 j 01:02	15°♍37'02	
	500 Dec 01 j 08:15	0°♊		desc. node	501 Nov 16 j 22:04	18°♍32'04	
morning set	500 Dec 06 j 00:58	7°♊13'33			501 Nov 24 j 06:16	0°♊	
max. Earth dist.	500 Dec 15 j 20:21	22°♊42'15	1.43397 AU	max. Earth dist.	501 Nov 28 j 10:23	6°♊34'14	1.44576 AU
	500 Dec 20 j 07:59	0°♊					
				superior conj	501 Dec 01 j 19:41	11°♊57'01	-1°28'27
superior conj	500 Dec 22 j 01:06	2°♊49'50	-1°54'47	minimum elong	501 Dec 01 j 11:16	11°♊23'30	1°27'38
minimum elong	500 Dec 21 j 20:11	2°♊29'24	1°54'31		501 Dec 12 j 22:39	0°♊	
evening rise	501 Jan 03 j 11:28	24°♊05'49		evening rise	501 Dec 16 j 03:23	5°♊18'08	
	501 Jan 06 j 20:21	0°♋			501 Dec 31 j 13:56	0°♋	
asc. node	501 Jan 17 j 16:59	17°♋31'15		evening max el	502 Jan 04 j 09:51	4°♋37'06	18°25'34
evening max el	501 Jan 20 j 21:25	21°♋16'05	18°09'00	asc. node	502 Jan 04 j 14:01	4°♋47'34	
retrograde	501 Jan 27 j 09:37	24°♋41'02		retrograde	502 Jan 10 j 22:31	8°♋11'26	
evening set	501 Jan 30 j 04:59	24°♋01'58		evening set	502 Jan 13 j 22:51	7°♋21'39	
inferior conj	501 Feb 05 j 12:31	18°♋51'47	3°48'31	inferior conj	502 Jan 19 j 21:08	1°♋52'11	3°41'47
minimum elong	501 Feb 05 j 12:37	18°♋51'31	3°48'30	minimum elong	502 Jan 19 j 19:35	1°♋56'40	3°41'39
min. Earth dist.	501 Feb 08 j 08:26	15°♋56'28	0.62393 AU		502 Jan 21 j 11:55	30°♋♊	
morning rise	501 Feb 11 j 19:08	12°♋54'21		min. Earth dist.	502 Jan 22 j 01:51	29°♋20'28	0.64200 AU
direct	501 Feb 18 j 18:38	10°♋18'59		morning rise	502 Jan 25 j 15:46	25°♋46'58	
desc. node	501 Feb 26 j 00:12	12°♋40'44		direct	502 Feb 01 j 13:19	22°♋56'45	
morning max el	501 Mar 04 j 18:45	18°♋12'10	27°47'56	desc. node	502 Feb 12 j 21:13	28°♋38'20	
	501 Mar 14 j 16:54	0°♋			502 Feb 14 j 08:26	0°♋	
	501 Apr 02 j 04:12	0°♋		morning max el	502 Feb 15 j 03:22	0°♋46'26	27°28'11
morning set	501 Apr 07 j 10:52	10°♋19'28			502 Mar 08 j 18:07	0°♋	
max. Earth dist.	501 Apr 13 j 02:13	22°♋07'36	1.32683 AU	morning set	502 Mar 22 j 05:32	24°♋16'28	
					502 Mar 25 j 02:09	0°♋	
superior conj	501 Apr 14 j 22:42	26°♋07'43	-0°07'46	max. Earth dist.	502 Mar 27 j 03:50	4°♋15'40	1.33462 AU
minimum elong	501 Apr 14 j 23:04	26°♋09'43	0°07'41				
behind sun begin	501 Apr 14 j 18:30	25°♋45'01		superior conj	502 Mar 30 j 04:36	10°♋38'26	-0°34'50
behind sun end	501 Apr 15 j 03:37	26°♋34'25		minimum elong	502 Mar 30 j 06:17	10°♋47'27	0°34'29
asc. node	501 Apr 15 j 16:18	27°♋43'19		asc. node	502 Apr 02 j 13:20	17°♋50'07	
	501 Apr 16 j 17:26	0°♋		evening rise	502 Apr 06 j 09:31	26°♋00'36	
evening rise	501 Apr 21 j 22:07	11°♋12'22			502 Apr 08 j 07:35	0°♋	
	501 May 01 j 13:21	0°♋			502 Apr 27 j 04:15	0°♋	
evening max el	501 May 16 j 10:05	20°♋20'16	24°04'30	evening max el	502 Apr 28 j 01:49	0°♋53'45	22°28'51
desc. node	501 May 24 j 23:29	26°♋14'08		retrograde	502 May 11 j 02:41	7°♋20'00	
retrograde	501 May 30 j 05:51	27°♋17'11		desc. node	502 May 11 j 20:28	7°♋18'46	
evening set	501 Jun 03 j 15:07	26°♋34'33		evening set	502 May 14 j 03:18	6°♋59'52	
min. Earth dist.	501 Jun 09 j 21:11	23°♋32'36	0.56440 AU	min. Earth dist.	502 May 22 j 09:22	3°♋25'49	0.55278 AU
inferior conj	501 Jun 12 j 09:02	21°♋59'55	-4°21'05	inferior conj	502 May 23 j 11:27	2°♋48'51	-3°08'03
minimum elong	501 Jun 12 j 03:27	22°♋08'36	4°20'11	minimum elong	502 May 23 j 04:06	2°♋59'17	3°05'58
morning rise	501 Jun 20 j 18:34	17°♋59'23			502 May 28 j 22:43	30°♋♊	
direct	501 Jun 23 j 10:11	17°♋40'58		morning rise	502 Jun 01 j 06:54	28°♋55'41	
morning max el	501 Jul 03 j 05:09	22°♋13'19	19°45'55	direct	502 Jun 04 j 03:35	28°♋36'57	
	501 Jul 09 j 14:59	0°♋			502 Jun 09 j 23:41	0°♋	
asc. node	501 Jul 12 j 15:33	4°♋48'34		morning max el	502 Jun 15 j 13:45	3°♋56'04	21°04'29
morning set	501 Jul 20 j 22:51	20°♋30'03		asc. node	502 Jun 29 j 12:36	23°♋52'03	
	501 Jul 25 j 15:19	0°♋			502 Jul 02 j 16:39	0°♋	
				morning set	502 Jul 05 j 06:19	5°♋13'10	
superior conj	501 Jul 28 j 20:38	6°♋27'48	1°46'41				
minimum elong	501 Jul 28 j 20:24	6°♋26'38	1°46'41	superior conj	502 Jul 12 j 17:01	20°♋42'50	1°41'49
max. Earth dist.	501 Aug 03 j 14:53	17°♋36'04	1.37263 AU	minimum elong	502 Jul 12 j 15:27	20°♋34'41	1°41'43
evening rise	501 Aug 07 j 10:41	24°♋37'37		max. Earth dist.	502 Jul 17 j 00:35	29°♋27'02	1.35519 AU
	501 Aug 10 j 11:44	0°♋			502 Jul 17 j 07:15	0°♋	
desc. node	501 Aug 20 j 22:50	17°♋04'41		evening rise	502 Jul 21 j 06:12	7°♋38'30	

	502 Aug 03 j 03:40	0°♎			503 Jul 09 j 04:54	0°♏	
desc. node	502 Aug 07 j 19:51	7°♎10'42		desc. node	503 Jul 25 j 16:51	26°♏50'32	
evening max el	502 Aug 25 j 18:31	29°♎43'34	26°31'03		503 Jul 27 j 23:45	0°♎	
	502 Aug 26 j 01:21	0°♏		evening max el	503 Aug 08 j 06:22	13°♎10'33	27°11'58
retrograde	502 Sep 07 j 14:53	6°♏56'11		retrograde	503 Aug 21 j 15:06	20°♎29'35	
evening set	502 Sep 14 j 03:45	4°♏14'25		evening set	503 Aug 28 j 14:48	17°♎44'15	
min. Earth dist.	502 Sep 18 j 05:44	29°♎59'13	0.66132 AU	min. Earth dist.	503 Sep 01 j 09:58	14°♎05'46	0.64906 AU
	502 Sep 18 j 05:28	30°♎		inferior conj	503 Sep 03 j 13:38	11°♎42'25	-2°48'40
inferior conj	502 Sep 19 j 20:37	28°♎01'49	-1°53'12	minimum elong	503 Sep 03 j 17:51	11°♎30'42	2°47'13
minimum elong	502 Sep 19 j 23:31	27°♎53'01	1°52'02	morning rise	503 Sep 09 j 21:42	6°♎10'32	
asc. node	502 Sep 25 j 11:47	22°♎27'25		asc. node	503 Sep 12 j 08:50	5°♎32'05	
morning rise	502 Sep 25 j 19:45	22°♎15'44		direct	503 Sep 12 j 14:36	5°♎31'47	
direct	502 Sep 28 j 19:25	21°♎25'25		morning max el	503 Sep 19 j 02:56	9°♎01'24	18°06'10
morning max el	502 Oct 05 j 12:12	25°♎07'19	18°36'42		503 Oct 03 j 09:55	0°♏	
	502 Oct 09 j 14:41	0°♏		morning set	503 Oct 07 j 03:15	6°♏12'40	
morning set	502 Oct 25 j 23:40	25°♏11'58					
	502 Oct 28 j 23:55	0°♎		superior conj	503 Oct 21 j 03:29	29°♏06'42	0°03'31
desc. node	502 Nov 03 j 19:06	9°♎11'46		minimum elong	503 Oct 21 j 03:55	29°♏08'24	0°03'27
				behind sun begin	503 Oct 20 j 17:23	28°♏26'20	
superior conj	502 Nov 10 j 21:23	20°♎22'09	-0°45'40	behind sun end	503 Oct 21 j 14:27	29°♏50'23	
minimum elong	502 Nov 10 j 15:31	19°♎59'06	0°44'54	desc. node	503 Oct 21 j 16:09	29°♏57'12	
max. Earth dist.	502 Nov 11 j 04:41	20°♎50'50	1.45059 AU		503 Oct 21 j 16:51	0°♎	
	502 Nov 17 j 00:22	0°♎		max. Earth dist.	503 Oct 24 j 23:36	5°♎12'14	1.44800 AU
evening rise	502 Nov 26 j 19:48	15°♎31'43		evening rise	503 Nov 06 j 14:33	24°♎54'26	
greatest brilliancy	502 Dec 05 j 05:27	28°♎53'34	-0.8m		503 Nov 09 j 21:40	0°♎	
	502 Dec 05 j 22:19	0°♏		greatest brilliancy	503 Nov 19 j 22:21	15°♎17'15	-0.7m
evening max el	502 Dec 18 j 20:07	18°♏02'41	18°59'54		503 Nov 30 j 16:54	0°♏	
asc. node	502 Dec 22 j 11:03	20°♏59'38		evening max el	503 Dec 02 j 02:16	1°♏30'41	19°50'24
retrograde	502 Dec 25 j 17:09	21°♏57'01		asc. node	503 Dec 09 j 08:04	5°♏53'15	
evening set	502 Dec 28 j 23:27	20°♏55'24		retrograde	503 Dec 09 j 14:30	5°♏53'40	
inferior conj	503 Jan 03 j 15:14	15°♏09'00	3°20'28	evening set	503 Dec 13 j 04:22	4°♏38'44	
minimum elong	503 Jan 03 j 12:45	15°♏16'48	3°20'00		503 Dec 17 j 15:04	30°♎	
min. Earth dist.	503 Jan 05 j 04:41	13°♏11'50	0.65640 AU	inferior conj	503 Dec 18 j 15:56	28°♎38'18	2°48'26
morning rise	503 Jan 09 j 01:47	8°♏58'52		minimum elong	503 Dec 18 j 13:11	28°♎47'26	2°47'40
direct	503 Jan 15 j 14:26	6°♏08'16		min. Earth dist.	503 Dec 19 j 15:30	27°♎20'09	0.66692 AU
morning max el	503 Jan 28 j 13:09	13°♏44'33	26°37'33	morning rise	503 Dec 23 j 21:47	22°♎25'26	
desc. node	503 Jan 30 j 18:15	16°♏04'05		direct	503 Dec 29 j 21:29	19°♎45'49	
	503 Feb 10 j 18:23	0°♏		morning max el	504 Jan 10 j 22:13	26°♎55'18	25°24'25
	503 Mar 01 j 10:32	0°♎			504 Jan 13 j 19:22	0°♏	
morning set	503 Mar 05 j 12:56	7°♎35'03		desc. node	504 Jan 17 j 15:19	4°♏32'52	
max. Earth dist.	503 Mar 09 j 18:49	15°♎49'38	1.34682 AU		504 Feb 04 j 09:38	0°♏	
				morning set	504 Feb 16 j 04:24	20°♏01'50	
superior conj	503 Mar 14 j 04:32	24°♎45'53	-1°01'42	max. Earth dist.	504 Feb 19 j 21:56	26°♏55'14	1.36346 AU
minimum elong	503 Mar 14 j 07:30	25°♎01'13	1°01'11		504 Feb 21 j 12:52	0°♎	
	503 Mar 16 j 16:56	0°♎					
asc. node	503 Mar 20 j 10:22	7°♎48'22		superior conj	504 Feb 25 j 19:48	8°♎22'34	-1°26'41
evening rise	503 Mar 21 j 18:37	10°♎36'03		minimum elong	504 Feb 25 j 23:38	8°♎41'42	1°26'08
	503 Apr 01 j 01:01	0°♎		evening rise	504 Mar 04 j 23:21	24°♎52'17	
evening max el	503 Apr 10 j 01:09	11°♎45'54	21°00'30	asc. node	504 Mar 06 j 07:24	27°♎33'35	
retrograde	503 Apr 21 j 16:12	17°♎24'28			504 Mar 07 j 12:51	0°♎	
evening set	503 Apr 23 j 21:47	17°♎12'45		evening max el	504 Mar 22 j 11:51	23°♎14'37	19°47'59
desc. node	503 Apr 28 j 17:28	15°♎37'31		retrograde	504 Apr 01 j 09:40	28°♎00'20	
inferior conj	503 May 03 j 05:31	13°♎14'15	-1°17'32	evening set	504 Apr 03 j 11:42	27°♎48'37	
minimum elong	503 May 03 j 01:51	13°♎19'27	1°16'14	inferior conj	504 Apr 12 j 05:46	23°♎46'54	0°40'19
min. Earth dist.	503 May 03 j 22:04	12°♎50'50	0.54987 AU	minimum elong	504 Apr 12 j 07:30	23°♎44'13	0°39'43
morning rise	503 May 12 j 05:48	9°♎09'57		min. Earth dist.	504 Apr 14 j 12:19	22°♎22'37	0.55653 AU
direct	503 May 15 j 13:27	8°♎46'11		desc. node	504 Apr 14 j 14:30	22°♎19'19	
morning max el	503 May 28 j 12:03	14°♎57'43	22°39'11	morning rise	504 Apr 21 j 00:55	19°♎13'54	
	503 Jun 09 j 02:17	0°♎		direct	504 Apr 25 j 05:42	18°♎34'44	
asc. node	503 Jun 16 j 09:38	13°♎21'21		morning max el	504 May 09 j 03:51	25°♎31'51	24°20'27
morning set	503 Jun 19 j 16:52	20°♎06'42			504 May 13 j 08:21	0°♎	
	503 Jun 24 j 08:36	0°♏			504 May 31 j 17:56	0°♎	
				asc. node	504 Jun 02 j 06:41	3°♎09'08	
superior conj	503 Jun 26 j 20:44	5°♏20'33	1°30'52	morning set	504 Jun 03 j 04:44	5°♎04'36	
minimum elong	503 Jun 26 j 18:25	5°♏08'19	1°30'37				
max. Earth dist.	503 Jun 29 j 19:19	11°♏31'25	1.34127 AU	superior conj	504 Jun 10 j 05:06	20°♎12'02	1°15'04
evening rise	503 Jul 04 j 16:19	21°♏23'04		minimum elong	504 Jun 10 j 02:39	19°♎58'41	1°14'42

max. Earth dist.	504 Jun 11 j 22:51	23° Π 57'15	1.33133 AU	superior conj	505 May 25 j 16:07	5° Π 10'20	0°55'23
	504 Jun 14 j 19:11	0° \mathfrak{E}		minimum elong	505 May 25 j 14:00	4° Π 58'38	0°55'00
evening rise	504 Jun 17 j 12:57	5° \mathfrak{E} 39'04		max. Earth dist.	505 May 26 j 08:46	6° Π 41'26	1.32528 AU
	504 Jun 30 j 19:30	0° Ω		evening rise	505 Jun 01 j 16:53	20° Π 16'28	
desc. node	504 Jul 11 j 13:52	15° Ω 52'30			505 Jun 06 j 13:22	0° \mathfrak{E}	
evening max el	504 Jul 20 j 16:40	26° Ω 15'24	27°25'34		505 Jun 25 j 03:56	0° Ω	
	504 Jul 25 j 03:49	0° \mathfrak{M}		desc. node	505 Jun 28 j 10:52	4° Ω 00'46	
retrograde	504 Aug 03 j 09:26	3° \mathfrak{M} 34'38		evening max el	505 Jul 02 j 23:10	8° Ω 46'16	27°07'09
evening set	504 Aug 10 j 14:18	0° \mathfrak{M} 57'23		retrograde	505 Jul 16 j 20:49	16° Ω 02'22	
	504 Aug 11 j 19:53	30° \mathfrak{R} Ω		evening set	505 Jul 23 j 22:09	13° Ω 46'52	
min. Earth dist.	504 Aug 14 j 04:49	27° Ω 51'10	0.63322 AU	min. Earth dist.	505 Jul 27 j 13:24	11° Ω 02'56	0.61440 AU
inferior conj	504 Aug 16 j 21:25	25° Ω 09'40	-3°39'47	inferior conj	505 Jul 30 j 16:48	8° Ω 16'22	-4°21'35
minimum elong	504 Aug 17 j 02:20	24° Ω 57'20	3°38'28	minimum elong	505 Jul 30 j 21:09	8° Ω 06'43	4°20'51
morning rise	504 Aug 23 j 15:33	19° Ω 55'09		morning rise	505 Aug 06 j 21:45	3° Ω 22'06	
direct	504 Aug 26 j 04:13	19° Ω 24'36		direct	505 Aug 09 j 08:47	2° Ω 56'59	
asc. node	504 Aug 29 j 05:53	20° Ω 10'27		asc. node	505 Aug 16 j 02:58	6° Ω 12'25	
morning max el	504 Sep 01 j 18:50	22° Ω 50'11	17°53'06	morning max el	505 Aug 16 j 08:59	6° Ω 26'50	17°58'34
	504 Sep 07 j 09:21	0° \mathfrak{M}			505 Aug 31 j 11:13	0° \mathfrak{M}	
morning set	504 Sep 18 j 07:43	18° \mathfrak{M} 24'41		morning set	505 Sep 01 j 06:59	1° \mathfrak{M} 30'40	
	504 Sep 25 j 00:05	0° $\underline{\mathfrak{E}}$					
superior conj	504 Sep 30 j 07:47	8° $\underline{\mathfrak{E}}$ 58'09	0°47'06	superior conj	505 Sep 11 j 15:23	20° \mathfrak{M} 09'57	1°18'50
minimum elong	504 Sep 30 j 12:11	9° $\underline{\mathfrak{E}}$ 16'24	0°46'31	minimum elong	505 Sep 11 j 20:01	20° \mathfrak{M} 30'09	1°18'21
max. Earth dist.	504 Oct 06 j 15:47	19° $\underline{\mathfrak{E}}$ 18'33	1.43843 AU		505 Sep 17 j 09:18	0° $\underline{\mathfrak{E}}$	
desc. node	504 Oct 07 j 13:12	20° $\underline{\mathfrak{E}}$ 44'23		max. Earth dist.	505 Sep 19 j 03:30	2° $\underline{\mathfrak{E}}$ 55'34	1.42316 AU
	504 Oct 13 j 10:02	0° \mathfrak{M}		desc. node	505 Sep 24 j 10:14	11° $\underline{\mathfrak{E}}$ 30'04	
evening rise	504 Oct 15 j 22:00	3° \mathfrak{M} 52'37		evening rise	505 Sep 25 j 11:47	13° $\underline{\mathfrak{E}}$ 11'34	
	504 Oct 15 j 22:00	0° \mathfrak{J}			505 Oct 06 j 10:56	0° \mathfrak{M}	
evening max el	504 Nov 04 j 03:02	14° \mathfrak{J} 59'33	20°54'46	evening max el	505 Oct 27 j 22:13	28° \mathfrak{M} 29'33	22°09'22
retrograde	504 Nov 22 j 12:09	19° \mathfrak{J} 57'28			505 Oct 29 j 11:42	0° \mathfrak{J}	
asc. node	504 Nov 25 j 05:07	19° \mathfrak{J} 16'08		retrograde	505 Nov 06 j 08:15	4° \mathfrak{J} 05'31	
evening set	504 Nov 26 j 11:35	18° \mathfrak{J} 27'25		evening set	505 Nov 10 j 19:18	2° \mathfrak{J} 18'34	
inferior conj	504 Dec 01 j 20:46	12° \mathfrak{J} 16'14	2°08'15	asc. node	505 Nov 12 j 02:11	1° \mathfrak{J} 07'20	
minimum elong	504 Dec 01 j 18:17	12° \mathfrak{J} 24'44	2°07'22		505 Nov 13 j 02:34	30° \mathfrak{R} \mathfrak{M}	
min. Earth dist.	504 Dec 02 j 08:02	11° \mathfrak{J} 37'35	0.67364 AU	inferior conj	505 Nov 16 j 03:39	26° \mathfrak{M} 00'06	1°21'46
morning rise	504 Dec 07 j 00:46	6° \mathfrak{J} 02'45		minimum elong	505 Nov 16 j 01:52	26° \mathfrak{M} 06'15	1°21'03
direct	504 Dec 12 j 09:41	3° \mathfrak{J} 41'40		min. Earth dist.	505 Nov 16 j 03:48	25° \mathfrak{M} 59'34	0.67684 AU
morning max el	504 Dec 23 j 06:36	10° \mathfrak{J} 10'50	23°58'58	morning rise	505 Nov 21 j 08:17	19° \mathfrak{M} 48'11	
desc. node	505 Jan 03 j 12:24	23° \mathfrak{J} 46'18		direct	505 Nov 26 j 02:07	17° \mathfrak{M} 49'20	
	505 Jan 07 j 23:45	0° \mathfrak{Z}		morning max el	505 Dec 05 j 17:08	23° \mathfrak{M} 31'12	22°31'09
	505 Jan 27 j 03:08	0° \approx			505 Dec 11 j 09:32	0° \mathfrak{J}	
morning set	505 Jan 27 j 21:56	1° \approx 20'31		desc. node	505 Dec 21 j 09:28	13° \mathfrak{J} 31'23	
max. Earth dist.	505 Jan 31 j 17:21	8° \approx 00'37	1.38359 AU		506 Jan 01 j 09:49	0° \mathfrak{Z}	
superior conj	505 Feb 07 j 22:50	21° \approx 19'23	-1°47'21	morning set	506 Jan 08 j 11:34	11° \mathfrak{Z} 16'11	
minimum elong	505 Feb 08 j 02:38	21° \approx 37'23	1°47'00	max. Earth dist.	506 Jan 13 j 13:36	19° \mathfrak{Z} 44'12	1.40499 AU
	505 Feb 12 j 10:46	0° \mathfrak{H}			506 Jan 19 j 11:23	0° \approx	
evening rise	505 Feb 16 j 21:15	8° \mathfrak{H} 42'42		superior conj	506 Jan 21 j 09:00	3° \approx 24'13	-2°00'23
asc. node	505 Feb 21 j 04:26	17° \mathfrak{H} 00'38		minimum elong	506 Jan 21 j 11:02	3° \approx 33'23	2°00'19
	505 Feb 28 j 21:44	0° \mathfrak{Y}		evening rise	506 Jan 31 j 09:11	21° \approx 59'23	
evening max el	505 Mar 05 j 09:21	5° \mathfrak{Y} 21'49	18°54'41		506 Feb 04 j 16:05	0° \mathfrak{H}	
retrograde	505 Mar 13 j 17:59	9° \mathfrak{Y} 24'27		asc. node	506 Feb 08 j 01:30	6° \mathfrak{H} 02'44	
evening set	505 Mar 16 j 00:24	9° \mathfrak{Y} 07'48		evening max el	506 Feb 16 j 14:54	17° \mathfrak{H} 59'52	18°21'19
inferior conj	505 Mar 23 j 23:26	4° \mathfrak{Y} 50'51	2°15'10	retrograde	506 Feb 23 j 21:19	21° \mathfrak{H} 35'49	
minimum elong	505 Mar 24 j 03:40	4° \mathfrak{Y} 43'17	2°13'59	evening set	506 Feb 26 j 09:15	21° \mathfrak{H} 11'27	
min. Earth dist.	505 Mar 27 j 04:37	2° \mathfrak{Y} 33'48	0.57134 AU	inferior conj	506 Mar 05 j 14:11	16° \mathfrak{H} 33'52	3°15'18
	505 Mar 31 j 13:55	30° \mathfrak{R} \mathfrak{H}		minimum elong	506 Mar 05 j 17:38	16° \mathfrak{H} 26'39	3°14'40
morning rise	505 Apr 01 j 03:51	29° \mathfrak{H} 44'45		min. Earth dist.	506 Mar 09 j 00:35	13° \mathfrak{H} 42'56	0.59113 AU
desc. node	505 Apr 01 j 11:32	29° \mathfrak{H} 36'57		morning rise	506 Mar 12 j 23:35	11° \mathfrak{H} 00'56	
direct	505 Apr 06 j 11:32	28° \mathfrak{H} 36'46		direct	506 Mar 19 j 06:20	9° \mathfrak{H} 16'00	
	505 Apr 12 j 10:10	0° \mathfrak{Y}		desc. node	506 Mar 19 j 08:36	9° \mathfrak{H} 16'02	
morning max el	505 Apr 20 j 18:52	6° \mathfrak{Y} 03'27	25°54'13	morning max el	506 Apr 02 j 14:14	16° \mathfrak{H} 58'35	27°05'27
	505 May 08 j 07:25	0° \mathfrak{B}			506 Apr 13 j 08:03	0° \mathfrak{Y}	
morning set	505 May 18 j 16:18	20° \mathfrak{B} 01'25			506 Apr 30 j 17:19	0° \mathfrak{B}	
asc. node	505 May 20 j 03:45	23° \mathfrak{B} 09'36		morning set	506 May 03 j 01:51	4° \mathfrak{B} 50'24	
	505 May 23 j 07:29	0° Π		asc. node	506 May 07 j 00:48	13° \mathfrak{B} 17'00	
				superior conj	506 May 10 j 03:54	20° \mathfrak{B} 08'02	0°32'36

minimum elong	506 May 10 j 02:30	20°♄00'21	0°32'19	superior conj	507 Apr 24 j 14:46	4°♄59'41	0°07'29
max. Earth dist.	506 May 09 j 21:25	19°♄32'24	1.32294 AU	minimum elong	507 Apr 24 j 14:25	4°♄57'47	0°07'24
	506 May 14 j 16:12	0°♄		behind sun begin	507 Apr 24 j 09:54	4°♄33'05	
evening rise	506 May 17 j 01:28	5°♄05'32		behind sun end	507 Apr 24 j 18:57	5°♄22'30	
	506 May 30 j 07:06	0°♄		evening rise	507 May 01 j 12:35	19°♄59'05	
evening max el	506 Jun 14 j 23:19	20°♄32'11	26°15'55		507 May 06 j 10:11	0°♄	
desc. node	506 Jun 15 j 07:53	20°♄52'22			507 May 26 j 03:20	0°♄	
retrograde	506 Jun 28 j 23:36	27°♄44'43		evening max el	507 May 27 j 16:30	1°♄33'11	24°57'18
evening set	506 Jul 05 j 09:39	26°♄03'05		desc. node	507 Jun 02 j 04:53	5°♄56'39	
min. Earth dist.	506 Jul 09 j 12:13	23°♄25'49	0.59387 AU	retrograde	507 Jun 10 j 16:08	8°♄39'29	
inferior conj	506 Jul 12 j 20:08	20°♄52'24	-4°46'11	evening set	507 Jun 15 j 21:52	7°♄36'42	
minimum elong	506 Jul 12 j 21:53	20°♄49'01	4°46'05	min. Earth dist.	507 Jun 21 j 03:58	4°♄48'08	0.57408 AU
morning rise	506 Jul 20 j 12:14	16°♄20'42		inferior conj	507 Jun 24 j 04:08	2°♄48'01	-4°41'52
direct	506 Jul 22 j 24:00	15°♄59'04		minimum elong	507 Jun 24 j 01:17	2°♄52'49	4°41'38
morning max el	506 Jul 30 j 18:19	19°♄42'54	18°23'52		507 Jun 28 j 18:24	30°♄	
asc. node	506 Aug 03 j 00:02	23°♄22'32		morning rise	507 Jul 02 j 07:26	28°♄38'14	
	506 Aug 07 j 10:50	0°♄		direct	507 Jul 04 j 21:24	28°♄18'57	
morning set	506 Aug 15 j 19:46	15°♄16'09			507 Jul 10 j 14:04	0°♄	
	506 Aug 23 j 13:52	0°♄		morning max el	507 Jul 13 j 19:49	2°♄29'13	19°10'01
				asc. node	507 Jul 20 j 21:05	11°♄26'00	
superior conj	506 Aug 24 j 22:53	2°♄32'53	1°37'56	morning set	507 Jul 30 j 18:02	29°♄29'50	
minimum elong	506 Aug 25 j 01:47	2°♄46'13	1°37'45		507 Jul 31 j 00:07	0°♄	
max. Earth dist.	506 Sep 01 j 10:13	15°♄52'40	1.40411 AU				
evening rise	506 Sep 05 j 21:57	23°♄27'53		superior conj	507 Aug 08 j 00:32	15°♄50'31	1°46'07
	506 Sep 09 j 22:19	0°♄		minimum elong	507 Aug 08 j 01:21	15°♄54'26	1°46'06
desc. node	506 Sep 11 j 07:15	2°♄10'55		max. Earth dist.	507 Aug 14 j 13:30	28°♄07'17	1.38376 AU
	506 Sep 30 j 09:16	0°♄			507 Aug 15 j 14:27	0°♄	
evening max el	506 Oct 10 j 12:48	12°♄01'50	23°29'06	evening rise	507 Aug 18 j 08:45	4°♄53'27	
retrograde	506 Oct 21 j 01:27	18°♄15'02		desc. node	507 Aug 29 j 04:15	22°♄42'28	
evening set	506 Oct 26 j 01:51	16°♄10'12			507 Sep 02 j 23:35	0°♄	
asc. node	506 Oct 29 j 23:14	11°♄48'36		evening max el	507 Sep 23 j 00:45	25°♄36'54	24°47'41
inferior conj	506 Oct 31 j 10:46	9°♄48'06	0°30'32		507 Sep 28 j 05:29	0°♄	
minimum elong	506 Oct 31 j 10:03	9°♄50'34	0°30'14	retrograde	507 Oct 04 j 14:45	2°♄21'38	
min. Earth dist.	506 Oct 31 j 00:24	10°♄23'36	0.67671 AU	evening set	507 Oct 10 j 05:32	29°♄59'37	
morning rise	506 Nov 05 j 18:12	3°♄40'01			507 Oct 10 j 05:22	30°♄	
direct	506 Nov 09 j 21:48	2°♄03'48		min. Earth dist.	507 Oct 14 j 19:29	24°♄47'07	0.67334 AU
morning max el	506 Nov 18 j 09:28	7°♄00'44	21°09'07	inferior conj	507 Oct 15 j 16:24	23°♄37'47	-0°24'05
	506 Dec 05 j 19:24	0°♄		minimum elong	507 Oct 15 j 17:00	23°♄35'49	0°23'48
desc. node	506 Dec 08 j 06:30	3°♄39'13		asc. node	507 Oct 16 j 20:18	22°♄06'26	
morning set	506 Dec 18 j 21:19	19°♄54'36		morning rise	507 Oct 21 j 04:34	17°♄35'58	
	506 Dec 25 j 05:10	0°♄		direct	507 Oct 24 j 19:32	16°♄20'21	
max. Earth dist.	506 Dec 26 j 16:37	2°♄24'21	1.42461 AU	morning max el	507 Nov 01 j 09:24	20°♄40'38	19°58'16
					507 Nov 08 j 23:12	0°♄	
superior conj	507 Jan 02 j 20:52	14°♄24'09	-2°01'27	desc. node	507 Nov 25 j 03:31	24°♄02'52	
minimum elong	507 Jan 02 j 18:54	14°♄15'44	2°01'25	morning set	507 Nov 27 j 17:35	28°♄01'59	
	507 Jan 11 j 18:22	0°♄			507 Nov 29 j 00:05	0°♄	
evening rise	507 Jan 14 j 07:27	4°♄34'30		max. Earth dist.	507 Dec 09 j 02:52	15°♄53'21	1.43978 AU
asc. node	507 Jan 25 j 22:32	24°♄32'06					
	507 Jan 30 j 02:19	0°♄		superior conj	507 Dec 14 j 06:09	24°♄09'53	-1°45'55
evening max el	507 Jan 31 j 01:23	1°♄00'26	18°07'50	minimum elong	507 Dec 13 j 23:14	23°♄41'47	1°45'24
retrograde	507 Feb 06 j 17:22	4°♄25'39			507 Dec 17 j 19:31	0°♄	
evening set	507 Feb 09 j 10:02	3°♄52'14		evening rise	507 Dec 27 j 11:37	16°♄18'47	
	507 Feb 14 j 20:19	30°♄			508 Jan 04 j 12:33	0°♄	
inferior conj	507 Feb 16 j 00:18	28°♄53'23	3°43'38	asc. node	508 Jan 12 j 19:34	12°♄18'13	
minimum elong	507 Feb 16 j 01:38	28°♄50'11	3°43'32	evening max el	508 Jan 14 j 13:49	14°♄15'11	18°13'44
min. Earth dist.	507 Feb 19 j 03:25	25°♄53'04	0.61230 AU	retrograde	508 Jan 21 j 01:22	17°♄43'08	
morning rise	507 Feb 22 j 15:40	23°♄02'33		evening set	508 Jan 23 j 22:39	16°♄59'44	
direct	507 Mar 01 j 11:55	20°♄42'51		inferior conj	508 Jan 30 j 01:52	11°♄40'59	3°47'43
desc. node	507 Mar 06 j 05:39	21°♄43'42		minimum elong	508 Jan 30 j 01:10	11°♄42'51	3°47'42
morning max el	507 Mar 15 j 16:05	28°♄33'52	27°43'10	min. Earth dist.	508 Feb 01 j 15:28	8°♄53'43	0.63201 AU
	507 Mar 17 j 01:51	0°♄		morning rise	508 Feb 05 j 02:50	5°♄39'25	
	507 Apr 07 j 02:59	0°♄		direct	508 Feb 12 j 02:20	2°♄55'56	
morning set	507 Apr 17 j 07:30	19°♄25'22		desc. node	508 Feb 21 j 02:41	6°♄34'46	
	507 Apr 22 j 07:39	0°♄		morning max el	508 Feb 25 j 23:07	10°♄49'20	27°43'45
max. Earth dist.	507 Apr 23 j 08:55	2°♄16'55	1.32432 AU		508 Mar 12 j 01:43	0°♄	
asc. node	507 Apr 23 j 21:50	3°♄27'14			508 Mar 29 j 10:46	0°♄	
				morning set	508 Mar 31 j 07:00	3°♄38'58	

max. Earth dist.	508 Apr 05 j 15:15	14°♈41'30	1.32958 AU		509 Mar 21 j 04:27	0°♈	
superior conj	508 Apr 07 j 23:01	19°♈39'43	-0°19'12	superior conj	509 Mar 23 j 02:41	4°♈01'21	-0°46'22
minimum elong	508 Apr 07 j 23:57	19°♈44'42	0°19'00	minimum elong	509 Mar 23 j 04:57	4°♈13'13	0°45'56
asc. node	508 Apr 09 j 18:52	23°♈36'25		asc. node	509 Mar 27 j 15:54	13°♈39'56	
	508 Apr 12 j 17:52	0°♈		evening rise	509 Mar 30 j 11:02	19°♈34'03	
evening rise	508 Apr 15 j 00:24	4°♈50'52			509 Apr 04 j 15:07	0°♈	
	508 Apr 28 j 14:01	0°♈		evening max el	509 Apr 20 j 01:05	22°♈46'53	21°49'51
evening max el	508 May 08 j 06:44	12°♈08'15	23°23'42	retrograde	509 May 02 j 13:31	28°♈54'23	
desc. node	508 May 19 j 01:54	18°♈37'50		evening set	509 May 05 j 03:37	28°♈39'25	
retrograde	508 May 21 j 20:44	18°♈55'30		desc. node	509 May 05 j 22:56	28°♈28'55	
evening set	508 May 25 j 15:00	18°♈24'24		min. Earth dist.	509 May 14 j 05:30	24°♈47'12	0.55031 AU
min. Earth dist.	508 Jun 01 j 16:52	15°♈10'09	0.55843 AU	inferior conj	509 May 14 j 13:36	24°♈35'51	-2°24'23
inferior conj	508 Jun 03 j 16:15	13°♈59'57	-3°55'48	minimum elong	509 May 14 j 07:14	24°♈44'47	2°22'19
minimum elong	508 Jun 03 j 09:17	14°♈10'18	3°54'18	morning rise	509 May 23 j 11:57	20°♈40'00	
morning rise	508 Jun 12 j 06:19	10°♈04'39		direct	509 May 26 j 12:06	20°♈19'59	
direct	508 Jun 14 j 23:27	9°♈46'37		morning max el	509 Jun 07 j 15:05	26°♈02'12	21°43'14
morning max el	508 Jun 25 j 11:06	14°♈37'40	20°17'08		509 Jun 11 j 08:38	0°♈	
asc. node	508 Jul 06 j 18:07	0°♈10'43		asc. node	509 Jun 23 j 15:09	19°♈25'52	
	508 Jul 06 j 15:41	0°♈		morning set	509 Jun 28 j 07:49	28°♈52'02	
morning set	508 Jul 13 j 22:50	14°♈04'15			509 Jun 28 j 20:53	0°♈	
superior conj	508 Jul 21 j 15:19	29°♈48'33	1°45'28	superior conj	509 Jul 05 j 15:11	14°♈14'02	1°37'50
minimum elong	508 Jul 21 j 14:26	29°♈44'06	1°45'26	minimum elong	509 Jul 05 j 13:13	14°♈03'47	1°37'41
	508 Jul 21 j 17:35	0°♈		max. Earth dist.	509 Jul 09 j 08:01	21°♈51'34	1.34877 AU
max. Earth dist.	508 Jul 26 j 18:53	9°♈58'03	1.36473 AU		509 Jul 13 j 10:46	0°♈	
evening rise	508 Jul 30 j 17:45	17°♈23'39		evening rise	509 Jul 13 j 20:03	0°♈44'41	
	508 Aug 06 j 21:59	0°♈			509 Jul 30 j 22:52	0°♈	
desc. node	508 Aug 15 j 01:16	12°♈59'52		desc. node	509 Aug 01 j 22:17	2°♈55'36	
	508 Aug 27 j 06:56	0°♈		evening max el	509 Aug 18 j 00:25	22°♈48'29	26°51'29
evening max el	508 Sep 04 j 12:20	9°♈14'34	25°57'43		509 Aug 29 j 21:18	0°♈	
retrograde	508 Sep 16 j 23:31	16°♈20'44		retrograde	509 Aug 31 j 02:58	0°♈04'59	
evening set	508 Sep 23 j 04:35	13°♈44'38			509 Sep 01 j 07:59	30°♈	
min. Earth dist.	508 Sep 27 j 10:45	9°♈07'59	0.66667 AU	evening set	509 Sep 06 j 20:45	27°♈20'48	
inferior conj	508 Sep 28 j 18:48	7°♈27'14	-1°20'31	min. Earth dist.	509 Sep 10 j 19:46	23°♈21'06	0.65650 AU
minimum elong	508 Sep 28 j 20:51	7°♈20'45	1°19'38	inferior conj	509 Sep 12 j 15:54	21°♈12'09	-2°17'01
asc. node	508 Oct 02 j 17:19	2°♈59'14		minimum elong	509 Sep 12 j 19:24	21°♈01'53	2°15'42
morning rise	508 Oct 04 j 13:27	1°♈34'24		morning rise	509 Sep 18 j 18:38	15°♈31'25	
direct	508 Oct 07 j 17:58	0°♈35'59		asc. node	509 Sep 19 j 14:21	15°♈09'19	
morning max el	508 Oct 14 j 16:37	4°♈29'30	19°01'50	direct	509 Sep 21 j 15:05	14°♈46'27	
	508 Nov 01 j 16:26	0°♈		morning max el	509 Sep 28 j 05:14	18°♈22'23	18°21'35
morning set	508 Nov 06 j 01:23	6°♈50'59			509 Oct 06 j 21:49	0°♈	
desc. node	508 Nov 11 j 00:33	14°♈37'59		morning set	509 Oct 17 j 12:27	17°♈03'03	
	508 Nov 20 j 19:33	0°♈			509 Oct 25 j 13:08	0°♈	
max. Earth dist.	508 Nov 20 j 18:35	29°♈56'14	1.44872 AU	desc. node	509 Oct 28 j 21:37	5°♈20'29	
superior conj	508 Nov 22 j 15:37	2°♈53'43	-1°11'54	superior conj	509 Nov 01 j 16:29	11°♈19'50	-0°24'50
minimum elong	508 Nov 22 j 07:28	2°♈21'35	1°10'58	minimum elong	509 Nov 01 j 13:14	11°♈07'00	0°24'24
evening rise	508 Dec 07 j 17:44	27°♈06'00		max. Earth dist.	509 Nov 03 j 13:17	14°♈16'11	1.45040 AU
	508 Dec 09 j 12:21	0°♈			509 Nov 13 j 14:05	0°♈	
evening max el	508 Dec 28 j 01:36	27°♈38'32	18°38'05	evening rise	509 Nov 18 j 00:18	6°♈56'11	
asc. node	508 Dec 29 j 16:36	29°♈08'55		greatest brilliancy	509 Nov 28 j 19:06	23°♈46'38	-0.8m
	508 Dec 30 j 19:58	0°♈			509 Dec 02 j 21:55	0°♈	
retrograde	509 Jan 03 j 17:04	1°♈20'17		evening max el	509 Dec 11 j 10:27	11°♈06'20	19°19'34
evening set	509 Jan 06 j 19:41	0°♈25'49		asc. node	509 Dec 16 j 13:37	14°♈49'56	
	509 Jan 07 j 11:55	30°♈		retrograde	509 Dec 18 j 13:05	15°♈11'33	
inferior conj	509 Jan 12 j 14:56	24°♈49'03	3°34'15	evening set	509 Dec 21 j 22:25	14°♈04'29	
minimum elong	509 Jan 12 j 12:54	24°♈55'10	3°33'58	inferior conj	509 Dec 27 j 12:12	8°♈12'02	3°08'01
min. Earth dist.	509 Jan 14 j 13:09	22°♈30'44	0.64863 AU	minimum elong	509 Dec 27 j 09:31	8°♈20'37	3°07'24
morning rise	509 Jan 18 j 05:39	18°♈41'15		min. Earth dist.	509 Dec 28 j 19:36	6°♈31'03	0.66142 AU
direct	509 Jan 25 j 00:09	15°♈48'54		morning rise	510 Jan 01 j 20:23	2°♈00'39	
desc. node	509 Feb 06 j 23:43	23°♈13'16			510 Jan 04 j 18:44	30°♈	
morning max el	509 Feb 07 j 08:31	23°♈35'08	27°09'50	direct	510 Jan 08 j 04:03	29°♈13'17	
	509 Feb 13 j 02:33	0°♈			510 Jan 11 j 19:34	0°♈	
	509 Mar 05 j 09:22	0°♈		morning max el	510 Jan 20 j 17:54	6°♈39'29	26°08'31
morning set	509 Mar 14 j 21:21	17°♈21'03		desc. node	510 Jan 24 j 20:47	11°♈08'47	
max. Earth dist.	509 Mar 19 j 12:23	26°♈33'53	1.33919 AU		510 Feb 07 j 20:36	0°♈	

morning set	510 Feb 25 j 22:40	0° H 19'49		morning set	511 Feb 08 j 05:34	12° \approx 19'32	
	510 Feb 25 j 18:24	0° H		max. Earth dist.	511 Feb 11 j 21:29	18° \approx 56'21	1.37180 AU
max. Earth dist.	510 Mar 01 j 22:02	7° H 53'21	1.35341 AU		511 Feb 17 j 17:48	0° H	
superior conj	510 Mar 06 j 23:23	17° H 57'29	-1°12'40	superior conj	511 Feb 18 j 09:57	1° H 18'39	-1°36'09
minimum elong	510 Mar 07 j 02:48	18° H 14'52	1°12'06	minimum elong	511 Feb 18 j 13:56	1° H 38'05	1°35'39
	510 Mar 12 j 19:33	0° Y		evening rise	511 Feb 26 j 20:46	18° H 08'59	
evening rise	510 Mar 14 j 18:35	4° Y 02'34		asc. node	511 Mar 01 j 10:00	23° H 11'58	
asc. node	510 Mar 14 j 12:57	3° Y 33'37			511 Mar 05 j 00:04	0° Y	
	510 Mar 29 j 17:01	0° B		evening max el	511 Mar 15 j 20:42	15° Y 39'13	19°22'44
evening max el	510 Apr 02 j 05:15	3° B 54'11	20°27'26	retrograde	511 Mar 25 j 01:28	20° Y 04'57	
retrograde	510 Apr 13 j 02:35	9° B 09'13		evening set	511 Mar 27 j 05:03	19° Y 51'30	
evening set	510 Apr 15 j 05:21	8° B 58'10		inferior conj	511 Apr 04 j 15:10	15° Y 43'54	1°24'34
desc. node	510 Apr 22 j 19:56	5° B 53'07		minimum elong	511 Apr 04 j 18:26	15° Y 38'31	1°23'30
inferior conj	510 Apr 24 j 08:31	5° B 00'29	-0°26'22	min. Earth dist.	511 Apr 07 j 09:21	13° Y 55'51	0.56207 AU
minimum elong	510 Apr 24 j 07:17	5° B 02'17	0°25'54	desc. node	511 Apr 09 j 17:00	12° Y 32'44	
min. Earth dist.	510 Apr 25 j 18:44	4° B 10'47	0.55164 AU	morning rise	511 Apr 13 j 05:02	10° Y 56'52	
morning rise	510 May 03 j 07:59	0° B 45'41		direct	511 Apr 17 j 21:05	10° Y 07'12	
direct	510 May 06 j 23:48	0° B 16'41		morning max el	511 May 02 j 00:31	17° Y 18'02	25°02'16
morning max el	510 May 20 j 09:48	6° B 48'55	23°22'07		511 May 12 j 10:00	0° B	
	510 Jun 05 j 20:22	0° II		morning set	511 May 28 j 07:06	28° B 45'57	
asc. node	510 Jun 10 j 12:13	9° II 03'43		asc. node	511 May 28 j 09:18	28° B 57'32	
morning set	510 Jun 12 j 19:08	13° II 47'48			511 May 28 j 21:06	0° II	
superior conj	510 Jun 19 j 21:08	28° II 58'00	1°24'41	superior conj	511 Jun 04 j 06:52	13° II 52'54	1°07'08
minimum elong	510 Jun 19 j 18:42	28° II 44'56	1°24'23	minimum elong	511 Jun 04 j 04:30	13° II 39'57	1°06'45
	510 Jun 20 j 08:43	0° E		max. Earth dist.	511 Jun 05 j 13:44	16° II 40'42	1.32831 AU
max. Earth dist.	510 Jun 22 j 06:53	4° E 05'20	1.33662 AU	evening rise	511 Jun 11 j 11:12	29° II 09'42	
evening rise	510 Jun 27 j 11:07	14° E 43'46			511 Jun 11 j 21:02	0° E	
	510 Jul 05 j 13:57	0° O			511 Jun 28 j 17:14	0° O	
desc. node	510 Jul 19 j 19:18	22° O 20'27		desc. node	511 Jul 06 j 16:18	11° O 01'44	
	510 Jul 25 j 18:56	0° P		evening max el	511 Jul 13 j 21:04	18° O 59'36	27°21'47
evening max el	510 Jul 31 j 12:06	6° P 07'55	27°21'30	retrograde	511 Jul 27 j 15:48	26° O 17'15	
retrograde	510 Aug 14 j 00:32	13° P 26'40		evening set	511 Aug 03 j 20:40	23° O 47'21	
evening set	510 Aug 21 j 03:16	10° P 43'32		min. Earth dist.	511 Aug 07 j 10:33	20° O 52'31	0.62553 AU
min. Earth dist.	510 Aug 24 j 20:13	7° P 19'25	0.64275 AU	inferior conj	511 Aug 10 j 08:16	18° O 07'00	-3°59'04
inferior conj	510 Aug 27 j 05:20	4° P 47'29	-3°11'07	minimum elong	511 Aug 10 j 13:09	17° O 55'22	3°57'57
minimum elong	510 Aug 27 j 09:57	4° P 35'11	3°09'41	morning rise	511 Aug 17 j 06:57	13° O 00'55	
	510 Sep 01 j 13:08	30° R 0		direct	511 Aug 19 j 18:43	12° O 32'53	
morning rise	510 Sep 02 j 17:32	29° O 22'22		asc. node	511 Aug 24 j 08:30	14° O 09'39	
direct	510 Sep 05 j 08:25	28° O 47'19		morning max el	511 Aug 26 j 12:17	15° O 58'49	17°53'10
asc. node	510 Sep 06 j 11:25	28° O 53'52			511 Sep 05 j 07:56	0° P	
	510 Sep 09 j 03:18	0° P		morning set	511 Sep 11 j 16:33	11° P 13'16	
morning max el	510 Sep 11 j 20:43	2° P 14'06	17°58'24		511 Sep 22 j 09:42	0° E	
morning set	510 Sep 29 j 03:21	28° P 36'07		superior conj	511 Sep 22 j 22:25	0° E 54'02	1°02'09
	510 Sep 29 j 23:05	0° E		minimum elong	511 Sep 23 j 03:17	1° E 14'40	1°01'34
superior conj	510 Oct 12 j 06:24	20° E 27'51	0°23'14	max. Earth dist.	511 Sep 29 j 22:47	12° E 32'15	1.43249 AU
minimum elong	510 Oct 12 j 09:01	20° E 38'26	0°22'52	desc. node	511 Oct 02 j 15:40	16° E 53'36	
desc. node	510 Oct 15 j 18:39	26° E 06'38		evening rise	511 Oct 07 j 20:21	25° E 05'12	
max. Earth dist.	510 Oct 17 j 07:50	28° E 34'43	1.44474 AU		511 Oct 11 j 00:39	0° M	
	510 Oct 18 j 05:20	0° M			511 Oct 31 j 17:39	0° J	
evening rise	510 Oct 28 j 12:23	16° M 03'45		evening max el	511 Nov 07 j 12:47	8° J 04'07	21°25'27
	510 Nov 06 j 15:37	0° J		retrograde	511 Nov 16 j 08:03	13° J 18'15	
evening max el	510 Nov 24 j 14:30	24° J 35'06	20°16'18	asc. node	511 Nov 20 j 07:44	11° J 49'36	
retrograde	510 Dec 02 j 10:47	29° J 11'52		evening set	511 Nov 20 j 12:14	11° J 40'57	
asc. node	510 Dec 03 j 10:41	29° J 06'15		inferior conj	511 Nov 25 j 20:51	5° J 26'00	1°49'13
evening set	510 Dec 06 j 04:35	27° J 50'32		minimum elong	511 Nov 25 j 18:37	5° J 33'42	1°48'22
inferior conj	510 Dec 11 j 14:54	21° J 45'09	2°32'15	min. Earth dist.	511 Nov 26 j 03:11	5° J 04'08	0.67539 AU
minimum elong	510 Dec 11 j 12:13	21° J 54'14	2°31'25		511 Nov 30 j 04:54	30° R 0	
min. Earth dist.	510 Dec 12 j 09:00	20° J 44'09	0.67025 AU	morning rise	511 Dec 01 j 00:51	29° M 12'59	
morning rise	510 Dec 16 j 19:40	15° J 32'02		direct	511 Dec 06 j 03:12	27° M 01'24	
direct	510 Dec 22 j 13:15	12° J 59'47			511 Dec 12 j 23:04	0° J	
morning max el	511 Jan 03 j 02:29	19° J 52'40	24°49'02	morning max el	511 Dec 16 j 11:34	3° J 10'51	23°21'28
desc. node	511 Jan 11 j 17:51	29° J 58'18		desc. node	511 Dec 29 j 14:55	19° J 26'29	
	511 Jan 11 j 18:22	0° B			512 Jan 05 j 22:25	0° B	
	511 Feb 01 j 00:26	0° \approx		morning set	512 Jan 20 j 11:51	23° B 04'25	

max. Earth dist.	512 Jan 24 j 16:35	0° \approx 15'31	1.39275 AU		512 Dec 29 j 00:39	0° \approx	
	512 Jan 24 j 13:01	0° \approx		morning set	512 Dec 30 j 13:00	2° \approx 24'55	
				max. Earth dist.	513 Jan 05 j 14:43	12° \approx 20'20	1.41364 AU
superior conj	512 Feb 01 j 06:25	13° \approx 54'42	-1°54'02				
minimum elong	512 Feb 01 j 09:43	14° \approx 10'04	1°53'49	superior conj	513 Jan 13 j 07:45	25° \approx 33'25	-2°02'35
	512 Feb 09 j 16:52	0° \approx		minimum elong	513 Jan 13 j 08:21	25° \approx 36'05	2°02'36
evening rise	512 Feb 10 j 14:52	1° \approx 46'18			513 Jan 15 j 19:44	0° \approx	
asc. node	512 Feb 16 j 07:02	12° \approx 29'25		evening rise	513 Jan 23 j 21:29	14° \approx 46'28	
evening max el	512 Feb 26 j 21:55	28° \approx 00'11	18°37'55		513 Feb 01 j 08:54	0° \approx	
	512 Feb 29 j 08:04	0° \approx		asc. node	513 Feb 02 j 04:05	1° \approx 19'06	
retrograde	512 Mar 05 j 18:09	1° \approx 49'49		evening max el	513 Feb 09 j 05:59	10° \approx 49'34	18°13'14
evening set	512 Mar 08 j 02:47	1° \approx 30'15		retrograde	513 Feb 16 j 05:01	14° \approx 19'08	
	512 Mar 11 j 13:12	30° \approx 11'10		evening set	513 Feb 18 j 18:58	13° \approx 51'10	
inferior conj	512 Mar 15 j 17:47	27° \approx 04'40	2°44'57	inferior conj	513 Feb 25 j 17:15	9° \approx 04'50	3°30'43
minimum elong	512 Mar 15 j 21:58	26° \approx 56'38	2°43'56	minimum elong	513 Feb 25 j 19:51	8° \approx 59'02	3°30'22
min. Earth dist.	512 Mar 19 j 03:00	24° \approx 30'18	0.57937 AU	min. Earth dist.	513 Mar 01 j 01:52	6° \approx 06'30	0.60011 AU
morning rise	512 Mar 23 j 14:14	21° \approx 45'37		morning rise	513 Mar 04 j 18:36	3° \approx 23'05	
desc. node	512 Mar 26 j 14:03	20° \approx 41'52		direct	513 Mar 11 j 08:27	1° \approx 22'07	
direct	512 Mar 29 j 08:23	20° \approx 22'32		desc. node	513 Mar 13 j 11:06	1° \approx 34'06	
morning max el	512 Apr 12 j 17:08	27° \approx 57'40	26°28'07	morning max el	513 Mar 25 j 15:18	9° \approx 09'55	27°25'53
	512 Apr 14 j 17:04	0° \approx			513 Apr 10 j 14:41	0° \approx	
	512 May 04 j 21:18	0° \approx		morning set	513 Apr 26 j 02:10	28° \approx 25'03	
morning set	512 May 11 j 18:00	13° \approx 40'21			513 Apr 26 j 20:22	0° \approx	
asc. node	512 May 14 j 06:20	19° \approx 01'34		asc. node	513 May 01 j 03:22	9° \approx 11'21	
				max. Earth dist.	513 May 02 j 13:42	12° \approx 18'59	1.32303 AU
superior conj	512 May 18 j 18:24	28° \approx 51'43	0°46'03				
minimum elong	512 May 18 j 16:32	28° \approx 41'29	0°45'41	superior conj	513 May 03 j 06:02	13° \approx 48'36	0°22'12
max. Earth dist.	512 May 19 j 01:11	29° \approx 28'58	1.32380 AU	minimum elong	513 May 03 j 05:03	13° \approx 43'11	0°21'59
	512 May 19 j 06:50	0° \approx		evening rise	513 May 10 j 03:17	28° \approx 45'22	
evening rise	512 May 25 j 17:21	13° \approx 52'46			513 May 10 j 17:28	0° \approx	
	512 Jun 02 j 22:28	0° \approx			513 May 27 j 11:36	0° \approx	
desc. node	512 Jun 22 j 13:19	28° \approx 40'43		evening max el	513 Jun 06 j 21:53	12° \approx 37'48	25°45'16
	512 Jun 23 j 19:48	0° \approx		desc. node	513 Jun 09 j 10:19	14° \approx 51'36	
evening max el	512 Jun 25 j 00:49	1° \approx 11'09	26°49'09	retrograde	513 Jun 20 j 23:02	19° \approx 48'57	
retrograde	512 Jul 08 j 23:56	8° \approx 26'41		evening set	513 Jun 26 j 22:12	18° \approx 24'03	
evening set	512 Jul 15 j 20:27	6° \approx 24'00		min. Earth dist.	513 Jul 01 j 10:18	15° \approx 43'46	0.58515 AU
min. Earth dist.	512 Jul 19 j 14:36	3° \approx 24'52	0.60569 AU	inferior conj	513 Jul 04 j 16:41	13° \approx 22'02	-4°48'44
inferior conj	512 Jul 22 j 21:14	1° \approx 01'33	-4°34'48	minimum elong	513 Jul 04 j 16:40	13° \approx 22'05	4°48'44
minimum elong	512 Jul 23 j 00:46	0° \approx 54'08	4°34'21	morning rise	513 Jul 12 j 13:34	8° \approx 59'54	
	512 Jul 24 j 03:02	30° \approx 17'09		direct	513 Jul 15 j 01:55	8° \approx 39'31	
morning rise	512 Jul 30 j 06:58	26° \approx 17'09		morning max el	513 Jul 23 j 07:14	12° \approx 33'23	18°40'51
direct	512 Aug 01 j 17:59	25° \approx 53'48		asc. node	513 Jul 28 j 02:37	18° \approx 17'22	
morning max el	512 Aug 09 j 00:51	29° \approx 28'13	18°06'55		513 Aug 04 j 03:12	0° \approx	
	512 Aug 09 j 13:36	0° \approx		morning set	513 Aug 08 j 15:20	8° \approx 35'52	
asc. node	512 Aug 10 j 05:34	0° \approx 42'33					
morning set	512 Aug 24 j 22:06	24° \approx 37'14		superior conj	513 Aug 17 j 08:46	25° \approx 26'14	1°42'36
	512 Aug 27 j 19:11	0° \approx		minimum elong	513 Aug 17 j 10:45	25° \approx 35'37	1°42'30
					513 Aug 19 j 19:32	0° \approx	
superior conj	512 Sep 03 j 16:52	12° \approx 38'07	1°28'24	max. Earth dist.	513 Aug 24 j 12:12	8° \approx 27'40	1.39547 AU
minimum elong	512 Sep 03 j 20:52	12° \approx 56'03	1°28'02	evening rise	513 Aug 28 j 14:13	15° \approx 30'48	
max. Earth dist.	512 Sep 11 j 07:52	25° \approx 51'28	1.41529 AU	desc. node	513 Sep 05 j 09:40	28° \approx 14'55	
	512 Sep 13 j 19:37	0° \approx			513 Sep 06 j 12:32	0° \approx	
evening rise	512 Sep 16 j 17:32	4° \approx 44'49			513 Sep 28 j 02:09	0° \approx	
desc. node	512 Sep 18 j 12:40	7° \approx 37'32		evening max el	513 Oct 02 j 18:50	5° \approx 07'27	24°03'11
	512 Oct 03 j 08:00	0° \approx		retrograde	513 Oct 13 j 18:50	11° \approx 35'13	
evening max el	512 Oct 20 j 05:37	21° \approx 34'02	22°42'59	evening set	513 Oct 19 j 01:09	9° \approx 23'10	
retrograde	512 Oct 30 j 03:11	27° \approx 26'59		inferior conj	513 Oct 24 j 10:44	3° \approx 00'41	0°07'41
evening set	512 Nov 03 j 19:38	25° \approx 32'31		minimum elong	513 Oct 24 j 10:33	3° \approx 01'19	0°07'37
asc. node	512 Nov 06 j 04:47	23° \approx 06'44		transit middle	513 Oct 24 j 10:33	3° \approx 01'19	0°07'37
inferior conj	512 Nov 09 j 04:02	19° \approx 11'47	1°00'32	transit begin	513 Oct 24 j 08:09	3° \approx 09'29	
minimum elong	512 Nov 09 j 02:41	19° \approx 16'30	0°59'58	transit end	513 Oct 24 j 12:58	2° \approx 53'10	
min. Earth dist.	512 Nov 08 j 23:40	19° \approx 26'53	0.67711 AU	min. Earth dist.	513 Oct 23 j 20:00	3° \approx 50'35	0.67565 AU
morning rise	512 Nov 14 j 09:36	13° \approx 01'00		asc. node	513 Oct 24 j 01:50	3° \approx 30'51	
direct	512 Nov 18 j 21:06	11° \approx 11'59			513 Oct 26 j 18:04	30° \approx 11'59	
morning max el	512 Nov 28 j 00:13	16° \approx 34'41	21°55'09	morning rise	513 Oct 29 j 19:56	26° \approx 54'40	
	512 Dec 08 j 21:51	0° \approx		direct	513 Nov 02 j 17:56	25° \approx 27'24	
desc. node	512 Dec 15 j 11:57	9° \approx 21'59			513 Nov 10 j 16:25	0° \approx	

morning max el	513 Nov 10 j 19:31	0° \mathbb{M} 07'46	20°37'16	direct	514 Oct 17 j 16:18	9° \mathbb{A} 44'25	
desc. node	513 Dec 02 j 08:58	29° \mathbb{M} 37'00		morning max el	514 Oct 24 j 22:39	13° \mathbb{A} 51'45	19°32'22
	513 Dec 02 j 15:02	0° \mathbb{A}			514 Nov 06 j 02:45	0° \mathbb{M}	
morning set	513 Dec 09 j 14:06	10° \mathbb{A} 40'50		greatest brilliancy	514 Nov 07 j 15:53	2° \mathbb{M} 19'09	-0.7m
max. Earth dist.	513 Dec 18 j 20:29	25° \mathbb{A} 21'06	1.43170 AU	morning set	514 Nov 18 j 12:25	18° \mathbb{M} 58'11	
	513 Dec 21 j 17:03	0° \mathbb{B}		desc. node	514 Nov 19 j 05:59	20° \mathbb{M} 06'15	
					514 Nov 25 j 14:28	0° \mathbb{A}	
superior conj	513 Dec 25 j 08:35	6° \mathbb{B} 02'11	-1°57'08	max. Earth dist.	514 Dec 01 j 09:52	9° \mathbb{A} 08'39	1.44445 AU
minimum elong	513 Dec 25 j 04:25	5° \mathbb{B} 44'49	1°56'56				
evening rise	514 Jan 06 j 12:31	27° \mathbb{B} 00'23		superior conj	514 Dec 05 j 06:46	15° \mathbb{A} 18'44	-1°33'39
	514 Jan 08 j 05:13	0° \mathbb{A}		minimum elong	514 Dec 04 j 22:34	14° \mathbb{A} 45'53	1°32'53
asc. node	514 Jan 20 j 01:07	19° \mathbb{A} 31'34			514 Dec 14 j 07:24	0° \mathbb{B}	
evening max el	514 Jan 23 j 17:43	23° \mathbb{A} 57'30	18°08'08	evening rise	514 Dec 19 j 07:44	8° \mathbb{B} 21'12	
retrograde	514 Jan 30 j 06:32	27° \mathbb{A} 21'59			515 Jan 01 j 13:37	0° \mathbb{A}	
evening set	514 Feb 02 j 01:14	26° \mathbb{A} 44'21		asc. node	515 Jan 06 j 22:10	6° \mathbb{A} 56'01	
inferior conj	514 Feb 08 j 10:24	21° \mathbb{A} 37'04	3°47'53	evening max el	515 Jan 07 j 06:13	7° \mathbb{A} 16'49	18°21'55
minimum elong	514 Feb 08 j 10:48	21° \mathbb{A} 36'01	3°47'52	retrograde	515 Jan 13 j 18:19	10° \mathbb{A} 49'10	
min. Earth dist.	514 Feb 11 j 08:19	18° \mathbb{A} 39'53	0.62098 AU	evening set	515 Jan 16 j 17:51	10° \mathbb{A} 01'01	
morning rise	514 Feb 14 j 19:10	15° \mathbb{A} 41'17		inferior conj	515 Jan 22 j 17:18	4° \mathbb{A} 34'09	3°43'50
direct	514 Feb 21 j 18:11	13° \mathbb{A} 09'36		minimum elong	515 Jan 22 j 15:57	4° \mathbb{A} 38'00	3°43'44
desc. node	514 Feb 28 j 08:09	15° \mathbb{A} 07'05		min. Earth dist.	515 Jan 25 j 00:18	1° \mathbb{A} 58'06	0.63953 AU
morning max el	514 Mar 07 j 19:20	21° \mathbb{A} 02'11	27°47'54		515 Jan 26 j 21:21	30° \mathbb{R} \mathbb{B}	
	514 Mar 15 j 14:12	0° \mathbb{H}		morning rise	515 Jan 28 j 13:27	28° \mathbb{B} 29'46	
	514 Apr 03 j 14:37	0° \mathbb{Y}		direct	515 Feb 04 j 11:42	25° \mathbb{B} 40'59	
morning set	514 Apr 10 j 05:29	12° \mathbb{Y} 52'00		desc. node	515 Feb 14 j 05:52	0° \mathbb{A}	
max. Earth dist.	514 Apr 15 j 23:24	24° \mathbb{Y} 56'28	1.32608 AU	morning max el	515 Feb 15 j 05:11	0° \mathbb{A} 48'12	
					515 Feb 18 j 03:40	3° \mathbb{A} 31'44	27°33'17
superior conj	514 Apr 17 j 16:02	28° \mathbb{Y} 36'28	-0°03'42		515 Mar 10 j 00:43	0° \mathbb{H}	
minimum elong	514 Apr 17 j 16:12	28° \mathbb{Y} 37'24	0°03'41	morning set	515 Mar 25 j 01:30	26° \mathbb{H} 53'17	
behind sun begin	514 Apr 17 j 11:11	28° \mathbb{Y} 10'07			515 Mar 26 j 14:53	0° \mathbb{Y}	
behind sun end	514 Apr 17 j 21:13	29° \mathbb{Y} 04'43		max. Earth dist.	515 Mar 30 j 02:26	7° \mathbb{Y} 09'14	1.33319 AU
asc. node	514 Apr 18 j 00:23	29° \mathbb{Y} 21'53					
	514 Apr 18 j 07:23	0° \mathbb{B}		superior conj	515 Apr 01 j 22:35	13° \mathbb{Y} 09'24	-0°30'43
evening rise	514 Apr 24 j 14:56	13° \mathbb{B} 39'22		minimum elong	515 Apr 02 j 00:05	13° \mathbb{Y} 17'22	0°30'24
	514 May 02 j 21:01	0° \mathbb{H}		asc. node	515 Apr 04 j 21:26	19° \mathbb{Y} 29'14	
evening max el	514 May 19 j 13:19	23° \mathbb{H} 25'35	24°18'28	evening rise	515 Apr 09 j 02:29	28° \mathbb{Y} 28'30	
desc. node	514 May 27 j 07:21	28° \mathbb{H} 59'49			515 Apr 09 j 19:56	0° \mathbb{B}	
	514 May 30 j 02:54	0° \mathbb{B}			515 Apr 27 j 12:36	0° \mathbb{H}	
retrograde	514 Jun 02 j 10:18	0° \mathbb{B} 25'05		evening max el	515 May 01 j 04:21	3° \mathbb{H} 58'04	22°42'52
	514 Jun 05 j 18:21	30° \mathbb{R} \mathbb{H}		retrograde	515 May 14 j 09:04	10° \mathbb{H} 30'30	
evening set	514 Jun 07 j 01:03	29° \mathbb{H} 37'37		desc. node	515 May 14 j 04:23	10° \mathbb{H} 30'25	
min. Earth dist.	514 Jun 13 j 00:32	26° \mathbb{H} 39'32	0.56678 AU	evening set	515 May 17 j 13:58	10° \mathbb{H} 07'58	
inferior conj	514 Jun 15 j 16:04	24° \mathbb{H} 59'25	-4°28'01	min. Earth dist.	515 May 25 j 12:41	6° \mathbb{H} 39'30	0.55400 AU
minimum elong	514 Jun 15 j 11:09	25° \mathbb{H} 07'14	4°27'21	inferior conj	515 May 26 j 20:45	5° \mathbb{H} 53'38	-3°22'00
morning rise	514 Jun 23 j 24:00	20° \mathbb{H} 56'42		minimum elong	515 May 26 j 13:19	6° \mathbb{H} 04'19	3°20'01
direct	514 Jun 26 j 15:14	20° \mathbb{H} 38'02		morning rise	515 Jun 04 j 14:56	2° \mathbb{H} 00'38	
morning max el	514 Jul 06 j 04:31	25° \mathbb{H} 04'09	19°35'58	direct	515 Jun 07 j 10:36	1° \mathbb{H} 42'12	
	514 Jul 10 j 13:06	0° \mathbb{B}		morning max el	515 Jun 18 j 14:52	6° \mathbb{H} 53'33	20°51'41
asc. node	514 Jul 14 j 23:38	6° \mathbb{B} 39'46		asc. node	515 Jul 01 j 20:40	25° \mathbb{H} 38'30	
morning set	514 Jul 23 j 16:42	22° \mathbb{B} 59'30			515 Jul 04 j 03:47	0° \mathbb{B}	
	514 Jul 27 j 04:04	0° \mathbb{Q}		morning set	515 Jul 07 j 23:32	7° \mathbb{B} 40'30	
superior conj	514 Jul 31 j 16:33	9° \mathbb{Q} 02'30	1°46'47	superior conj	515 Jul 15 j 11:35	23° \mathbb{B} 13'27	1°42'59
minimum elong	514 Jul 31 j 16:34	9° \mathbb{Q} 02'37	1°46'47	minimum elong	515 Jul 15 j 10:10	23° \mathbb{B} 06'11	1°42'55
max. Earth dist.	514 Aug 06 j 15:54	20° \mathbb{Q} 30'19	1.37546 AU		515 Jul 18 j 19:58	0° \mathbb{Q}	
evening rise	514 Aug 10 j 11:02	27° \mathbb{Q} 25'29		max. Earth dist.	515 Jul 20 j 00:23	2° \mathbb{Q} 20'34	1.35753 AU
	514 Aug 11 j 21:59	0° \mathbb{H}		evening rise	515 Jul 24 j 03:57	10° \mathbb{Q} 18'36	
desc. node	514 Aug 23 j 06:40	18° \mathbb{H} 41'23			515 Aug 04 j 11:09	0° \mathbb{H}	
	514 Aug 30 j 22:58	0° \mathbb{A}		desc. node	515 Aug 10 j 03:42	8° \mathbb{H} 50'43	
evening max el	514 Sep 15 j 06:38	18° \mathbb{A} 44'57	25°19'04		515 Aug 26 j 10:34	0° \mathbb{A}	
retrograde	514 Sep 27 j 06:07	25° \mathbb{A} 39'22		evening max el	515 Aug 28 j 18:25	2° \mathbb{A} 21'59	26°23'01
evening set	514 Oct 03 j 03:05	23° \mathbb{A} 11'03		retrograde	515 Sep 10 j 12:31	9° \mathbb{A} 33'18	
min. Earth dist.	514 Oct 07 j 13:45	18° \mathbb{A} 13'35	0.67093 AU	evening set	515 Sep 16 j 23:29	6° \mathbb{A} 52'39	
inferior conj	514 Oct 08 j 15:14	16° \mathbb{A} 50'52	-0°47'53	min. Earth dist.	515 Sep 21 j 02:30	2° \mathbb{A} 32'02	0.66281 AU
minimum elong	514 Oct 08 j 16:26	16° \mathbb{A} 46'56	0°47'21	inferior conj	515 Sep 22 j 15:37	0° \mathbb{A} 38'44	-1°44'36
asc. node	514 Oct 10 j 22:52	13° \mathbb{A} 57'07		minimum elong	515 Sep 22 j 18:19	0° \mathbb{A} 30'30	1°43'31
morning rise	514 Oct 14 j 05:56	10° \mathbb{A} 52'28			515 Sep 23 j 04:20	30° \mathbb{R} \mathbb{H}	

asc. node	515 Sep 27 j 19:55	25° \mathbb{M} 18'56		asc. node	516 Sep 13 j 16:57	8° \mathbb{M} 09'02	
morning rise	515 Sep 28 j 13:33	24° \mathbb{M} 50'55		direct	516 Sep 14 j 10:08	8° \mathbb{M} 06'16	
direct	515 Oct 01 j 14:23	23° \mathbb{M} 58'39		morning max el	516 Sep 20 j 22:47	11° \mathbb{M} 37'21	18°09'35
morning max el	515 Oct 08 j 08:30	27° \mathbb{M} 43'14	18°42'44		516 Oct 03 j 17:36	0° \mathbb{L}	
	515 Oct 10 j 09:58	0° \mathbb{L}		morning set	516 Oct 09 j 06:17	9° \mathbb{L} 08'55	
morning set	515 Oct 29 j 06:56	28° \mathbb{L} 20'43			516 Oct 22 j 01:33	0° \mathbb{M}	
	515 Oct 30 j 07:56	0° \mathbb{M}		desc. node	516 Oct 23 j 00:04	1° \mathbb{M} 29'46	
desc. node	515 Nov 06 j 03:00	10° \mathbb{M} 44'59					
				superior conj	516 Oct 23 j 13:58	2° \mathbb{M} 25'03	-0°03'51
superior conj	515 Nov 14 j 09:53	23° \mathbb{M} 47'06	-0°52'52	minimum elong	516 Oct 23 j 13:28	2° \mathbb{M} 23'04	0°03'47
minimum elong	515 Nov 14 j 03:14	23° \mathbb{M} 20'58	0°52'02	behind sun begin	516 Oct 23 j 02:50	1° \mathbb{M} 40'48	
max. Earth dist.	515 Nov 14 j 03:43	23° \mathbb{M} 22'52	1.45034 AU	behind sun end	516 Oct 24 j 00:06	3° \mathbb{M} 05'18	
	515 Nov 18 j 08:41	0° \mathbb{J}		max. Earth dist.	516 Oct 26 j 22:24	7° \mathbb{M} 43'26	1.44885 AU
evening rise	515 Nov 30 j 03:45	18° \mathbb{J} 43'45		evening rise	516 Nov 09 j 01:17	28° \mathbb{M} 12'42	
	515 Dec 07 j 04:37	0° \mathbb{Z}			516 Nov 10 j 04:57	0° \mathbb{J}	
greatest brilliancy	515 Dec 07 j 10:10	0° \mathbb{Z} 22'08	-0.9m	greatest brilliancy	516 Nov 21 j 19:21	17° \mathbb{J} 48'40	-0.7m
evening max el	515 Dec 21 j 16:56	20° \mathbb{Z} 41'53	18°53'41		516 Nov 30 j 09:56	0° \mathbb{Z}	
asc. node	515 Dec 24 j 19:13	23° \mathbb{Z} 18'44		evening max el	516 Dec 03 j 23:50	4° \mathbb{Z} 09'53	19°41'57
retrograde	515 Dec 28 j 12:20	24° \mathbb{Z} 32'47		asc. node	516 Dec 10 j 16:15	8° \mathbb{Z} 25'14	
evening set	515 Dec 31 j 17:37	23° \mathbb{Z} 33'05		retrograde	516 Dec 11 j 09:27	8° \mathbb{Z} 28'07	
inferior conj	516 Jan 06 j 10:14	17° \mathbb{Z} 49'02	3°24'28	evening set	516 Dec 14 j 22:03	7° \mathbb{Z} 15'22	
minimum elong	516 Jan 06 j 07:50	17° \mathbb{Z} 56'27	3°24'02	inferior conj	516 Dec 20 j 10:08	1° \mathbb{Z} 16'55	2°53'51
min. Earth dist.	516 Jan 08 j 01:54	15° \mathbb{Z} 46'10	0.65452 AU	minimum elong	516 Dec 20 j 07:23	1° \mathbb{Z} 25'59	2°53'07
morning rise	516 Jan 11 j 21:44	11° \mathbb{Z} 39'18			516 Dec 21 j 09:28	30° \mathbb{R} \mathbb{J}	
direct	516 Jan 18 j 11:59	8° \mathbb{Z} 47'54		min. Earth dist.	516 Dec 21 j 11:42	29° \mathbb{J} 52'42	0.66563 AU
morning max el	516 Jan 31 j 13:33	16° \mathbb{Z} 27'26	26°46'41	morning rise	516 Dec 25 j 16:28	25° \mathbb{J} 04'18	
desc. node	516 Feb 02 j 02:14	18° \mathbb{Z} 02'28		direct	516 Dec 31 j 18:20	22° \mathbb{J} 22'18	
	516 Feb 11 j 19:45	0° \mathbb{X}		morning max el	517 Jan 12 j 22:41	29° \mathbb{J} 36'49	25°36'15
	516 Mar 01 j 20:40	0° \mathbb{X}			517 Jan 13 j 07:49	0° \mathbb{Z}	
morning set	516 Mar 07 j 10:52	10° \mathbb{X} 18'30		desc. node	517 Jan 18 j 23:17	6° \mathbb{Z} 23'13	
max. Earth dist.	516 Mar 11 j 19:05	18° \mathbb{X} 47'55	1.34467 AU		517 Feb 04 j 16:42	0° \mathbb{X}	
				morning set	517 Feb 18 j 05:05	22° \mathbb{X} 54'15	
superior conj	516 Mar 15 j 23:35	27° \mathbb{X} 20'47	-0°57'44	max. Earth dist.	517 Feb 21 j 23:41	29° \mathbb{X} 55'50	1.36071 AU
minimum elong	516 Mar 16 j 02:23	27° \mathbb{X} 35'16	0°57'13		517 Feb 22 j 00:34	0° \mathbb{X}	
	516 Mar 17 j 06:09	0° \mathbb{Y}		superior conj	517 Feb 27 j 16:23	11° \mathbb{X} 02'52	-1°23'08
asc. node	516 Mar 21 j 18:30	9° \mathbb{Y} 29'14		minimum elong	517 Feb 27 j 20:08	11° \mathbb{X} 21'41	1°22'34
evening rise	516 Mar 23 j 12:04	13° \mathbb{Y} 06'12		evening rise	517 Mar 07 j 17:37	27° \mathbb{X} 25'50	
	516 Apr 01 j 05:58	0° \mathbb{B}		asc. node	517 Mar 08 j 15:34	29° \mathbb{X} 16'56	
evening max el	516 Apr 12 j 02:17	14° \mathbb{B} 46'20	21°12'53		517 Mar 09 j 00:07	0° \mathbb{Y}	
retrograde	516 Apr 23 j 23:24	20° \mathbb{B} 32'57		evening max el	517 Mar 25 j 11:17	26° \mathbb{Y} 09'23	19°57'38
evening set	516 Apr 26 j 06:31	20° \mathbb{B} 20'44			517 Mar 30 j 21:52	0° \mathbb{B}	
desc. node	516 Apr 30 j 01:25	19° \mathbb{B} 12'32		retrograde	517 Apr 04 j 15:10	1° \mathbb{B} 02'26	
inferior conj	516 May 05 j 15:18	16° \mathbb{B} 21'23	-1°35'41	evening set	517 Apr 06 j 17:02	0° \mathbb{B} 51'05	
minimum elong	516 May 05 j 10:49	16° \mathbb{B} 27'42	1°34'06		517 Apr 09 j 15:13	30° \mathbb{R} \mathbb{Y}	
min. Earth dist.	516 May 06 j 01:26	16° \mathbb{B} 07'06	0.54963 AU	inferior conj	517 Apr 15 j 13:43	26° \mathbb{Y} 51'02	0°23'25
morning rise	516 May 14 j 15:21	12° \mathbb{B} 19'54		minimum elong	517 Apr 15 j 14:45	26° \mathbb{Y} 49'27	0°23'02
direct	516 May 17 j 20:38	11° \mathbb{B} 57'26		desc. node	517 Apr 16 j 22:28	26° \mathbb{Y} 01'08	
morning max el	516 May 30 j 14:39	18° \mathbb{B} 01'38	22°24'22	min. Earth dist.	517 Apr 17 j 15:32	25° \mathbb{Y} 35'26	0.55494 AU
	516 Jun 09 j 05:38	0° \mathbb{I}		morning rise	517 Apr 24 j 10:18	22° \mathbb{Y} 22'57	
asc. node	516 Jun 17 j 17:44	15° \mathbb{I} 04'44		direct	517 Apr 28 j 11:29	21° \mathbb{Y} 46'48	
morning set	516 Jun 21 j 09:47	22° \mathbb{I} 33'16		morning max el	517 May 12 j 07:00	28° \mathbb{Y} 38'14	24°05'29
	516 Jun 24 j 22:16	0° \mathbb{E}			517 May 13 j 16:06	0° \mathbb{B}	
superior conj	516 Jun 28 j 14:26	7° \mathbb{E} 48'54	1°32'52		517 Jun 02 j 05:41	0° \mathbb{I}	
minimum elong	516 Jun 28 j 12:12	7° \mathbb{E} 37'06	1°32'39	asc. node	517 Jun 04 j 14:48	4° \mathbb{I} 50'11	
max. Earth dist.	516 Jul 01 j 17:38	14° \mathbb{E} 22'04	1.34308 AU	morning set	517 Jun 05 j 21:34	7° \mathbb{I} 30'49	
evening rise	516 Jul 06 j 12:14	23° \mathbb{E} 58'01					
	516 Jul 09 j 15:58	0° \mathbb{Q}		superior conj	517 Jun 12 j 22:17	22° \mathbb{I} 38'51	1°17'45
desc. node	516 Jul 27 j 00:45	28° \mathbb{Q} 35'24		minimum elong	517 Jun 12 j 19:48	22° \mathbb{I} 25'29	1°17'23
	516 Jul 28 j 00:43	0° \mathbb{M}		max. Earth dist.	517 Jun 14 j 19:58	26° \mathbb{I} 44'38	1.33257 AU
evening max el	516 Aug 10 j 06:18	15° \mathbb{M} 51'04	27°07'26		517 Jun 16 j 08:44	0° \mathbb{E}	
retrograde	516 Aug 23 j 13:42	23° \mathbb{M} 09'57		evening rise	517 Jun 20 j 07:32	8° \mathbb{E} 10'11	
evening set	516 Aug 30 j 11:59	20° \mathbb{M} 24'32			517 Jul 02 j 02:47	0° \mathbb{Q}	
min. Earth dist.	516 Sep 03 j 08:04	16° \mathbb{M} 40'36	0.65111 AU	desc. node	517 Jul 13 j 21:46	17° \mathbb{Q} 44'01	
inferior conj	516 Sep 05 j 09:47	14° \mathbb{M} 20'41	-2°40'27	evening max el	517 Jul 23 j 17:05	29° \mathbb{Q} 00'27	27°25'30
minimum elong	516 Sep 05 j 13:50	14° \mathbb{M} 09'17	2°39'02		517 Jul 24 j 18:48	0° \mathbb{M}	
morning rise	516 Sep 11 j 16:26	8° \mathbb{M} 46'28		retrograde	517 Aug 06 j 08:56	6° \mathbb{M} 19'40	

evening set	517 Aug 13 j 13:26	3° \mathbb{M} 40'33		min. Earth dist.	518 Jul 30 j 14:32	13° Ω 47'31	0.61736 AU
min. Earth dist.	517 Aug 17 j 04:29	0° \mathbb{M} 29'50	0.63581 AU	inferior conj	518 Aug 02 j 16:34	11° Ω 00'49	-4°16'14
	517 Aug 17 j 16:28	30° \mathbb{R} Ω		minimum elong	518 Aug 02 j 21:07	10° Ω 50'31	4°15'22
inferior conj	517 Aug 19 j 19:08	27° Ω 50'29	-3°32'32	morning rise	518 Aug 09 j 19:53	6° Ω 03'18	
minimum elong	517 Aug 20 j 00:01	27° Ω 38'03	3°31'10	direct	518 Aug 12 j 07:03	5° Ω 37'28	
morning rise	517 Aug 26 j 11:43	22° Ω 33'00		asc. node	518 Aug 18 j 11:04	8° Ω 23'47	
direct	517 Aug 29 j 00:50	22° Ω 01'24		morning max el	518 Aug 19 j 05:14	9° Ω 05'59	17°56'31
asc. node	517 Aug 31 j 14:00	22° Ω 33'33			518 Sep 01 j 21:06	0° \mathbb{M}	
morning max el	517 Sep 04 j 14:40	25° Ω 27'09	17°53'49	morning set	518 Sep 04 j 04:16	4° \mathbb{M} 10'45	
	517 Sep 08 j 09:41	0° \mathbb{M}					
morning set	517 Sep 21 j 07:26	21° \mathbb{M} 11'30		superior conj	518 Sep 14 j 17:51	23° \mathbb{M} 04'43	1°14'52
	517 Sep 26 j 09:50	0° Ω		minimum elong	518 Sep 14 j 22:37	23° \mathbb{M} 25'22	1°14'20
					518 Sep 18 j 19:02	0° Ω	
superior conj	517 Oct 03 j 14:14	12° Ω 04'30	0°41'12	max. Earth dist.	518 Sep 22 j 03:57	5° Ω 36'48	1.42573 AU
minimum elong	517 Oct 03 j 18:18	12° Ω 21'15	0°40'40	desc. node	518 Sep 26 j 18:05	13° Ω 03'00	
max. Earth dist.	517 Oct 09 j 15:09	21° Ω 53'05	1.44026 AU	evening rise	518 Sep 28 j 21:05	16° Ω 25'12	
desc. node	517 Oct 09 j 21:06	22° Ω 16'52			518 Oct 07 j 17:08	0° \mathbb{M}	
	517 Oct 14 j 18:10	0° \mathbb{M}			518 Oct 29 j 19:07	0° \mathbb{X}	
evening rise	517 Oct 19 j 09:21	7° \mathbb{M} 11'57		evening max el	518 Oct 30 j 21:27	1° \mathbb{X} 08'59	21°57'49
	517 Nov 03 j 13:13	0° \mathbb{X}		retrograde	518 Nov 09 j 03:31	6° \mathbb{X} 39'08	
evening max el	517 Nov 17 j 01:30	17° \mathbb{X} 39'12	20°44'30	evening set	518 Nov 13 j 12:45	4° \mathbb{X} 54'39	
retrograde	517 Nov 25 j 07:08	22° \mathbb{X} 31'24		asc. node	518 Nov 14 j 10:19	4° \mathbb{X} 06'59	
asc. node	517 Nov 27 j 13:17	22° \mathbb{X} 02'37			518 Nov 17 j 21:00	30° \mathbb{R} \mathbb{M}	
evening set	517 Nov 29 j 05:03	21° \mathbb{X} 03'41		inferior conj	518 Nov 18 j 21:08	28° \mathbb{M} 37'01	1°29'08
inferior conj	517 Dec 04 j 14:28	14° \mathbb{X} 54'02	2°14'46	minimum elong	518 Nov 18 j 19:13	28° \mathbb{M} 43'37	1°28'23
minimum elong	517 Dec 04 j 11:55	15° \mathbb{X} 02'45	2°13'54	min. Earth dist.	518 Nov 18 j 22:50	28° \mathbb{M} 31'06	0.67657 AU
min. Earth dist.	517 Dec 05 j 03:29	14° \mathbb{X} 09'33	0.67287 AU	morning rise	518 Nov 24 j 01:32	22° \mathbb{M} 24'53	
morning rise	517 Dec 09 j 18:35	8° \mathbb{X} 40'36		direct	518 Nov 28 j 21:35	20° \mathbb{M} 22'42	
direct	517 Dec 15 j 05:48	6° \mathbb{X} 16'23		morning max el	518 Dec 08 j 16:59	26° \mathbb{M} 11'30	22°44'05
morning max el	517 Dec 26 j 06:59	12° \mathbb{X} 51'53	24°12'06		518 Dec 12 j 04:31	0° \mathbb{X}	
desc. node	518 Jan 05 j 20:21	25° \mathbb{X} 31'08		desc. node	518 Dec 23 j 17:21	15° \mathbb{X} 11'59	
	518 Jan 09 j 02:52	0° \mathbb{Z}			519 Jan 02 j 16:50	0° \mathbb{Z}	
	518 Jan 28 j 12:30	0° \approx		morning set	519 Jan 11 j 20:18	14° \mathbb{Z} 32'59	
morning set	518 Jan 31 j 02:19	4° \approx 24'34		max. Earth dist.	519 Jan 16 j 15:46	22° \mathbb{Z} 37'02	1.40186 AU
max. Earth dist.	518 Feb 03 j 19:55	10° \approx 59'52	1.38048 AU		519 Jan 20 j 21:41	0° \approx	
superior conj	518 Feb 10 j 21:33	24° \approx 06'57	-1°44'37	superior conj	519 Jan 24 j 10:30	6° \approx 20'18	-1°59'04
minimum elong	518 Feb 11 j 01:26	24° \approx 25'34	1°44'15	minimum elong	519 Jan 24 j 12:57	6° \approx 31'24	1°58'59
	518 Feb 13 j 22:33	0° \mathbb{X}		evening rise	519 Feb 03 j 06:21	24° \approx 43'26	
evening rise	518 Feb 19 j 16:44	11° \mathbb{X} 21'02			519 Feb 06 j 01:24	0° \mathbb{X}	
asc. node	518 Feb 23 j 12:37	18° \mathbb{X} 47'28		asc. node	519 Feb 10 j 09:39	7° \mathbb{X} 53'59	
	518 Mar 01 j 21:47	0° \mathbb{Y}		evening max el	519 Feb 19 j 11:50	20° \mathbb{X} 45'20	18°24'57
evening max el	518 Mar 08 j 07:20	8° \mathbb{Y} 11'22	19°01'16	retrograde	519 Feb 26 j 21:26	24° \mathbb{X} 24'21	
retrograde	518 Mar 16 j 20:43	12° \mathbb{Y} 19'17		evening set	519 Mar 01 j 08:32	24° \mathbb{X} 01'16	
evening set	518 Mar 19 j 02:25	12° \mathbb{Y} 03'32		inferior conj	519 Mar 08 j 15:58	19° \mathbb{X} 26'40	3°08'19
inferior conj	518 Mar 27 j 04:20	7° \mathbb{Y} 49'13	2°02'58	minimum elong	519 Mar 08 j 19:40	19° \mathbb{X} 19'05	3°07'36
minimum elong	518 Mar 27 j 08:25	7° \mathbb{Y} 42'04	2°01'46	min. Earth dist.	519 Mar 12 j 02:25	16° \mathbb{X} 39'22	0.58803 AU
min. Earth dist.	518 Mar 30 j 07:15	5° \mathbb{Y} 39'11	0.56878 AU	morning rise	519 Mar 16 j 04:14	13° \mathbb{X} 57'02	
desc. node	518 Apr 03 j 19:30	3° \mathbb{Y} 04'44		desc. node	519 Mar 21 j 16:33	12° \mathbb{X} 18'59	
morning rise	518 Apr 04 j 11:24	2° \mathbb{Y} 48'00		direct	519 Mar 22 j 07:58	12° \mathbb{X} 17'54	
direct	518 Apr 09 j 15:12	1° \mathbb{Y} 45'05		morning max el	519 Apr 05 j 16:14	19° \mathbb{X} 58'33	26°56'48
morning max el	518 Apr 23 j 21:40	9° \mathbb{Y} 07'55	25°41'23		519 Apr 14 j 05:57	0° \mathbb{Y}	
	518 May 09 j 13:49	0° \mathbb{Z}			519 May 02 j 05:10	0° \mathbb{Z}	
morning set	518 May 21 j 09:16	22° \mathbb{Z} 27'53		morning set	519 May 05 j 19:12	7° \mathbb{Z} 18'34	
asc. node	518 May 22 j 11:53	24° \mathbb{Z} 48'59		asc. node	519 May 09 j 08:56	14° \mathbb{Z} 55'51	
	518 May 24 j 21:34	0° \mathbb{H}					
				superior conj	519 May 12 j 20:44	22° \mathbb{Z} 34'20	0°36'14
superior conj	518 May 28 j 08:59	7° \mathbb{H} 36'07	0°58'36	minimum elong	519 May 12 j 19:12	22° \mathbb{Z} 25'54	0°35'54
minimum elong	518 May 28 j 06:46	7° \mathbb{H} 24'01	0°58'11	max. Earth dist.	519 May 12 j 17:42	22° \mathbb{Z} 17'41	1.32305 AU
max. Earth dist.	518 May 29 j 05:12	9° \mathbb{H} 26'41	1.32596 AU		519 May 16 j 06:04	0° \mathbb{H}	
evening rise	518 Jun 04 j 10:32	22° \mathbb{H} 44'41		evening rise	519 May 19 j 18:33	7° \mathbb{H} 32'31	
	518 Jun 08 j 00:50	0° \mathbb{E}			519 May 31 j 13:03	0° \mathbb{E}	
	518 Jun 26 j 01:08	0° Ω		desc. node	519 Jun 17 j 15:47	23° \mathbb{E} 06'41	
desc. node	518 Jun 30 j 18:47	6° Ω 01'31		evening max el	519 Jun 18 j 01:28	23° \mathbb{E} 30'00	26°25'29
evening max el	518 Jul 06 j 00:22	11° Ω 37'12	27°12'01		519 Jun 27 j 20:21	0° Ω	
retrograde	518 Jul 19 j 21:15	18° Ω 53'23		retrograde	519 Jul 02 j 01:23	0° Ω 43'18	
evening set	518 Jul 26 j 23:52	16° Ω 33'50			519 Jul 06 j 04:44	30° \mathbb{R} \mathbb{E}	

evening set	519 Jul 08 j 14:42	28°☿55'53		desc. node	520 Jun 03 j 12:49	8°☿29'50	
min. Earth dist.	519 Jul 12 j 14:32	26°☿18'59	0.59692 AU	retrograde	520 Jun 12 j 19:49	11°☿45'20	
inferior conj	519 Jul 15 j 22:31	23°☿42'13	-4°44'05	evening set	520 Jun 18 j 06:24	10°☿36'53	
minimum elong	519 Jul 16 j 00:48	23°☿37'41	4°43'55	min. Earth dist.	520 Jun 23 j 07:10	7°☿50'59	0.57681 AU
morning rise	519 Jul 23 j 12:58	19°☿07'18		inferior conj	520 Jun 26 j 09:32	5°☿44'34	-4°44'59
direct	519 Jul 26 j 00:31	18°☿45'15		minimum elong	520 Jun 26 j 07:26	5°☿48'09	4°44'52
morning max el	519 Aug 02 j 15:30	22°☿26'08	18°18'51	morning rise	520 Jul 04 j 11:11	1°☿31'52	
asc. node	519 Aug 05 j 08:07	25°☿24'53		direct	520 Jul 07 j 00:39	1°☿12'23	
	519 Aug 08 j 14:40	0°♊		morning max el	520 Jul 15 j 18:24	5°☿17'58	19°01'50
morning set	519 Aug 18 j 15:20	17°♊51'31		asc. node	520 Jul 22 j 05:10	13°☿21'20	
	519 Aug 25 j 01:13	0°♊			520 Jul 31 j 11:39	0°♊	
				morning set	520 Aug 01 j 12:24	2°♊01'43	
superior conj	519 Aug 27 j 22:12	5°♊18'46	1°35'48	superior conj	520 Aug 09 j 21:33	18°♊29'34	1°45'28
minimum elong	519 Aug 28 j 01:25	5°♊33'24	1°35'33	minimum elong	520 Aug 09 j 22:39	18°♊34'54	1°45'27
max. Earth dist.	519 Sep 04 j 11:24	18°♊40'46	1.40706 AU		520 Aug 16 j 01:21	0°♊	
evening rise	519 Sep 09 j 03:44	26°♊31'58		max. Earth dist.	520 Aug 16 j 14:42	1°♊00'18	1.38675 AU
	519 Sep 11 j 06:49	0°♊		evening rise	520 Aug 20 j 10:58	7°♊47'38	
desc. node	519 Sep 13 j 15:06	3°♊45'07		desc. node	520 Aug 30 j 12:08	24°♊18'37	
	519 Oct 01 j 10:16	0°♊			520 Sep 03 j 05:16	0°♊	
evening max el	519 Oct 13 j 12:31	14°♊40'44	23°17'04	evening max el	520 Sep 25 j 00:42	28°♊15'32	24°36'18
retrograde	519 Oct 23 j 21:14	20°♊48'54			520 Sep 26 j 21:02	0°♊	
evening set	519 Oct 28 j 19:34	18°♊46'39		retrograde	520 Oct 06 j 11:17	4°♊56'26	
asc. node	519 Nov 01 j 07:20	14°♊56'39		evening set	520 Oct 11 j 23:49	2°♊36'55	
inferior conj	519 Nov 03 j 04:19	12°♊24'43	0°38'33		520 Oct 14 j 12:27	30°♊	
minimum elong	519 Nov 03 j 03:25	12°♊27'48	0°38'10	min. Earth dist.	520 Oct 16 j 14:59	27°♊19'06	0.67405 AU
min. Earth dist.	519 Nov 02 j 19:28	12°♊55'08	0.67695 AU	inferior conj	520 Oct 17 j 10:19	26°♊14'40	-0°15'36
morning rise	519 Nov 08 j 11:13	6°♊15'54		minimum elong	520 Oct 17 j 10:42	26°♊13'23	0°15'26
direct	519 Nov 12 j 16:46	4°♊36'31		transit middle	520 Oct 17 j 10:42	26°♊13'23	0°15'26
morning max el	519 Nov 21 j 08:19	9°♊39'49	21°20'41	transit begin	520 Oct 17 j 09:50	26°♊16'15	
	519 Dec 07 j 00:10	0°♊		transit end	520 Oct 17 j 11:33	26°♊10'31	
desc. node	519 Dec 10 j 14:22	5°♊16'46		asc. node	520 Oct 18 j 04:22	25°♊14'45	
morning set	519 Dec 22 j 09:39	23°♊20'59		morning rise	520 Oct 22 j 21:39	20°♊11'39	
	519 Dec 26 j 13:45	0°♊		direct	520 Oct 26 j 14:21	18°♊53'09	
max. Earth dist.	519 Dec 29 j 17:26	5°♊07'59	1.42190 AU	morning max el	520 Nov 03 j 07:06	23°♊18'29	20°07'54
superior conj	520 Jan 06 j 01:56	17°♊30'10	-2°02'16		520 Nov 08 j 22:44	0°♊	
minimum elong	520 Jan 06 j 00:41	17°♊24'50	2°02'15	desc. node	520 Nov 26 j 11:24	25°♊38'33	
	520 Jan 13 j 04:20	0°♊			520 Nov 29 j 07:27	0°♊	
evening rise	520 Jan 17 j 06:51	7°♊25'03		morning set	520 Nov 30 j 06:25	1°♊28'40	
asc. node	520 Jan 28 j 06:40	26°♊28'50		max. Earth dist.	520 Dec 11 j 02:26	18°♊29'49	1.43787 AU
	520 Jan 30 j 17:26	0°♊		superior conj	520 Dec 16 j 15:19	27°♊27'29	-1°49'29
evening max el	520 Feb 02 j 21:43	3°♊42'56	18°08'38	minimum elong	520 Dec 16 j 09:03	27°♊01'51	1°49'04
retrograde	520 Feb 09 j 15:16	7°♊09'00			520 Dec 18 j 04:25	0°♊	
evening set	520 Feb 12 j 07:12	6°♊37'03		evening rise	520 Dec 29 j 14:01	19°♊17'41	
inferior conj	520 Feb 18 j 23:25	1°♊41'24	3°41'02		521 Jan 04 j 19:13	0°♊	
minimum elong	520 Feb 19 j 01:05	1°♊37'27	3°40'54	asc. node	521 Jan 14 j 03:42	14°♊22'36	
	520 Feb 20 j 17:59	30°♊		evening max el	521 Jan 16 j 10:05	16°♊56'36	18°11'44
min. Earth dist.	520 Feb 22 j 04:12	28°♊40'46	0.60914 AU	retrograde	521 Jan 22 j 21:44	20°♊23'18	
morning rise	520 Feb 25 j 17:16	25°♊52'31		evening set	521 Jan 25 j 18:18	19°♊41'29	
direct	520 Mar 03 j 12:04	23°♊37'24		inferior conj	521 Jan 31 j 22:58	14°♊25'46	3°48'23
desc. node	520 Mar 07 j 13:34	24°♊22'05		minimum elong	521 Jan 31 j 22:33	14°♊26'53	3°48'21
	520 Mar 16 j 04:06	0°♊		min. Earth dist.	521 Feb 03 j 14:52	11°♊35'14	0.62920 AU
morning max el	520 Mar 17 j 17:12	1°♊28'02	27°39'55	morning rise	521 Feb 07 j 01:50	8°♊25'31	
	520 Apr 07 j 10:46	0°♊		direct	521 Feb 14 j 01:30	5°♊44'30	
morning set	520 Apr 19 j 01:33	21°♊56'31		desc. node	521 Feb 22 j 10:37	8°♊54'16	
	520 Apr 22 j 21:23	0°♊		morning max el	521 Feb 27 j 23:36	13°♊38'19	27°45'59
max. Earth dist.	520 Apr 25 j 05:36	5°♊04'21	1.32383 AU		521 Mar 13 j 04:01	0°♊	
asc. node	520 Apr 25 j 05:58	5°♊06'19			521 Mar 30 j 22:11	0°♊	
superior conj	520 Apr 26 j 07:50	7°♊27'40	0°11'24	morning set	521 Apr 03 j 02:11	6°♊14'29	
minimum elong	520 Apr 26 j 07:19	7°♊24'48	0°11'18	max. Earth dist.	521 Apr 08 j 12:54	17°♊32'57	1.32851 AU
behind sun begin	520 Apr 26 j 03:45	7°♊05'15		superior conj	521 Apr 10 j 16:39	22°♊10'34	-0°15'05
behind sun end	520 Apr 26 j 10:54	7°♊44'22		minimum elong	521 Apr 10 j 17:22	22°♊14'28	0°14'55
evening rise	520 May 03 j 05:25	22°♊26'08		behind sun begin	521 Apr 10 j 15:34	22°♊04'43	
	520 May 06 j 21:22	0°♊		behind sun end	521 Apr 10 j 19:10	22°♊24'12	
	520 May 25 j 12:14	0°♊		asc. node	521 Apr 12 j 03:00	25°♊16'26	
evening max el	520 May 29 j 19:31	4°♊37'09	25°10'21				

	521 Apr 14 j 07:20	0°♄		evening rise	522 Apr 02 j 04:12	22°♅04'06	
evening rise	521 Apr 17 j 17:16	7°♄19'12			522 Apr 06 j 01:21	0°♄	
	521 Apr 29 j 16:29	0°♄		evening max el	522 Apr 23 j 03:13	25°♄51'26	22°03'20
evening max el	521 May 11 j 09:53	15°♄15'09	23°38'03		522 Apr 28 j 12:08	0°♄	
desc. node	521 May 21 j 09:51	21°♄35'18		retrograde	522 May 05 j 20:16	2°♄05'43	
retrograde	521 May 25 j 02:18	22°♄06'14		desc. node	522 May 08 j 06:54	1°♄52'26	
evening set	521 May 29 j 01:41	21°♄31'26		evening set	522 May 08 j 13:45	1°♄49'13	
min. Earth dist.	521 Jun 04 j 20:28	18°♄21'38	0.56039 AU		522 May 13 j 17:27	30°♄	
inferior conj	521 Jun 07 j 00:31	17°♄03'22	-4°05'53	inferior conj	522 May 17 j 23:26	27°♄43'25	-2°40'42
minimum elong	521 Jun 06 j 17:58	17°♄13'17	4°04'35	minimum elong	522 May 17 j 16:36	27°♄53'02	2°38'34
morning rise	521 Jun 15 j 13:01	13°♄06'26		min. Earth dist.	522 May 17 j 08:57	28°♄03'46	0.55100 AU
direct	521 Jun 18 j 05:32	12°♄48'19		morning rise	522 May 26 j 20:52	23°♄48'51	
morning max el	521 Jun 28 j 11:19	17°♄32'39	20°05'47	direct	522 May 29 j 19:44	23°♄29'22	
	521 Jul 07 j 22:00	0°♄		morning max el	522 Jun 10 j 16:53	29°♄03'26	21°29'20
asc. node	521 Jul 09 j 02:14	2°♄00'43			522 Jun 11 j 16:20	0°♄	
morning set	521 Jul 16 j 16:24	16°♄33'26		asc. node	522 Jun 25 j 23:18	21°♄11'59	
	521 Jul 23 j 06:25	0°♄			522 Jun 30 j 09:28	0°♄	
				morning set	522 Jul 01 j 00:54	1°♄19'41	
superior conj	521 Jul 24 j 10:38	2°♄22'12	1°46'02	superior conj	522 Jul 08 j 09:21	16°♄44'09	1°39'22
minimum elong	521 Jul 24 j 09:58	2°♄18'53	1°46'02	minimum elong	522 Jul 08 j 07:30	16°♄34'35	1°39'14
max. Earth dist.	521 Jul 29 j 19:18	12°♄52'29	1.36745 AU	max. Earth dist.	522 Jul 12 j 07:14	24°♄44'51	1.35095 AU
evening rise	521 Aug 02 j 16:58	20°♄08'58			522 Jul 14 j 22:51	0°♄	
	521 Aug 08 j 07:11	0°♄		evening rise	522 Jul 16 j 16:59	3°♄23'13	
desc. node	521 Aug 17 j 09:10	14°♄38'29			522 Aug 01 j 04:13	0°♄	
	521 Aug 28 j 05:25	0°♄		desc. node	522 Aug 04 j 06:13	4°♄38'09	
evening max el	521 Sep 07 j 12:20	11°♄53'14	25°48'10	evening max el	522 Aug 21 j 00:28	25°♄28'45	26°44'51
retrograde	521 Sep 19 j 20:44	18°♄56'46			522 Aug 26 j 12:08	0°♄	
evening set	521 Sep 25 j 23:41	16°♄22'39		retrograde	522 Sep 03 j 00:57	2°♄43'53	
min. Earth dist.	521 Sep 30 j 07:03	11°♄40'27	0.66787 AU	evening set	522 Sep 09 j 17:03	0°♄00'29	
inferior conj	521 Oct 01 j 13:19	10°♄04'22	-1°11'53		522 Sep 09 j 17:17	30°♄	
minimum elong	521 Oct 01 j 15:09	9°♄58'32	1°11'07	min. Earth dist.	522 Sep 13 j 17:08	25°♄55'20	0.65824 AU
asc. node	521 Oct 05 j 01:25	5°♄58'47		inferior conj	522 Sep 15 j 11:22	23°♄50'25	-2°08'33
morning rise	521 Oct 07 j 06:53	4°♄09'53		minimum elong	522 Sep 15 j 14:41	23°♄40'38	2°07'17
direct	521 Oct 10 j 12:50	3°♄09'05		morning rise	522 Sep 21 j 12:49	18°♄07'41	
morning max el	521 Oct 17 j 13:17	7°♄05'57	19°09'14	asc. node	522 Sep 21 j 22:29	17°♄55'38	
	521 Nov 02 j 23:03	0°♄		direct	522 Sep 24 j 10:22	17°♄20'52	
morning set	521 Nov 09 j 11:09	10°♄07'46		morning max el	522 Oct 01 j 01:16	20°♄58'43	18°26'32
desc. node	521 Nov 13 j 08:26	16°♄12'15			522 Oct 08 j 01:16	0°♄	
	521 Nov 22 j 03:42	0°♄		morning set	522 Oct 20 j 17:52	20°♄07'11	
max. Earth dist.	521 Nov 23 j 17:33	2°♄29'03	1.44784 AU		522 Oct 26 j 21:26	0°♄	
				desc. node	522 Oct 31 j 05:29	6°♄53'56	
superior conj	521 Nov 26 j 03:46	6°♄18'58	-1°18'07	superior conj	522 Nov 05 j 04:30	14°♄43'46	-0°32'20
minimum elong	521 Nov 25 j 19:22	5°♄45'46	1°17'13	minimum elong	522 Nov 05 j 00:16	14°♄27'06	0°31'46
evening rise	521 Dec 10 j 23:38	0°♄13'47		max. Earth dist.	522 Nov 06 j 12:22	16°♄49'08	1.45063 AU
	521 Dec 10 j 20:17	0°♄			522 Nov 14 j 21:54	0°♄	
	521 Dec 30 j 14:43	0°♄		evening rise	522 Nov 21 j 09:38	10°♄12'23	
evening max el	521 Dec 30 j 22:11	0°♄19'20	18°33'21	greatest brilliancy	522 Dec 01 j 09:45	25°♄55'35	-0.8m
asc. node	522 Jan 01 j 00:44	1°♄22'47			522 Dec 04 j 01:20	0°♄	
retrograde	522 Jan 06 j 12:29	3°♄58'12		evening max el	522 Dec 14 j 07:38	13°♄46'50	19°12'19
evening set	522 Jan 09 j 14:18	3°♄05'23		asc. node	522 Dec 18 j 21:47	17°♄15'30	
	522 Jan 13 j 06:19	30°♄		retrograde	522 Dec 21 j 08:06	17°♄47'55	
inferior conj	522 Jan 15 j 10:33	27°♄31'13	3°37'12	evening set	522 Dec 24 j 16:22	16°♄42'45	
minimum elong	522 Jan 15 j 08:41	27°♄36'47	3°36'58	inferior conj	522 Dec 30 j 06:48	10°♄52'20	3°12'39
min. Earth dist.	522 Jan 17 j 11:05	25°♄07'57	0.64640 AU	minimum elong	522 Dec 30 j 04:11	11°♄00'41	3°12'04
morning rise	522 Jan 21 j 02:35	21°♄24'18		min. Earth dist.	522 Dec 31 j 16:17	9°♄05'41	0.65979 AU
direct	522 Jan 27 j 22:19	18°♄32'21		morning rise	523 Jan 04 j 15:45	4°♄41'25	
desc. node	522 Feb 09 j 07:40	25°♄18'44		direct	523 Jan 11 j 01:16	1°♄52'44	
morning max el	522 Feb 10 j 08:44	26°♄20'00	27°16'51	morning max el	523 Jan 23 j 18:18	9°♄22'31	26°19'03
	522 Feb 13 j 18:49	0°♄		desc. node	523 Jan 27 j 04:42	13°♄04'11	
	522 Mar 06 j 17:34	0°♄			523 Feb 09 j 00:45	0°♄	
morning set	522 Mar 17 j 18:07	20°♄01'49		morning set	523 Feb 27 j 05:11	0°♄	
max. Earth dist.	522 Mar 22 j 11:38	29°♄30'31	1.33748 AU	max. Earth dist.	523 Feb 28 j 21:39	3°♄07'35	
	522 Mar 22 j 17:21	0°♄			523 Mar 04 j 23:09	10°♄54'46	1.35105 AU
				superior conj	523 Mar 09 j 19:02	20°♄35'31	-1°08'48
superior conj	522 Mar 25 j 21:08	6°♄35'23	-0°42'16				
minimum elong	522 Mar 25 j 23:12	6°♄46'16	0°41'50				
asc. node	522 Mar 30 j 00:03	15°♄21'10					

minimum elong	523 Mar 09 j 22:18	20° H 52'14	1°08'15		524 Feb 19 j 05:35	0° H	
	523 Mar 14 j 08:09	0° Y					
asc. node	523 Mar 16 j 21:06	5° Y 16'29		superior conj	524 Feb 21 j 07:20	4° H 02'23	-1°32'52
evening rise	523 Mar 17 j 12:21	6° Y 35'04		minimum elong	524 Feb 21 j 11:17	4° H 21'51	1°32'22
	523 Mar 30 j 11:43	0° B		evening rise	524 Feb 29 j 15:30	20° H 45'16	
evening max el	523 Apr 05 j 05:38	6° B 52'50	20°38'37	asc. node	524 Mar 02 j 18:09	24° H 57'33	
retrograde	523 Apr 16 j 09:11	12° B 16'06			524 Mar 05 j 08:41	0° Y	
evening set	523 Apr 18 j 12:41	12° B 04'57		evening max el	524 Mar 17 j 19:25	18° Y 32'11	19°31'07
desc. node	523 Apr 25 j 03:56	9° B 33'54		retrograde	524 Mar 27 j 06:04	23° Y 04'47	
inferior conj	523 Apr 27 j 17:42	8° B 07'18	-0°44'31	evening set	524 Mar 29 j 08:56	22° Y 52'04	
minimum elong	523 Apr 27 j 15:35	8° B 10'20	0°43'46	inferior conj	524 Apr 06 j 21:53	18° Y 46'40	1°09'24
min. Earth dist.	523 Apr 28 j 21:51	7° B 26'50	0.55082 AU	minimum elong	524 Apr 07 j 00:41	18° Y 42'09	1°08'27
morning rise	523 May 06 j 17:40	3° B 56'38		min. Earth dist.	524 Apr 09 j 12:19	17° Y 06'45	0.55994 AU
direct	523 May 10 j 06:29	3° B 29'41		desc. node	524 Apr 11 j 00:56	16° Y 11'33	
morning max el	523 May 23 j 12:42	9° B 54'43	23°07'03	morning rise	524 Apr 15 j 13:47	14° Y 04'35	
	523 Jun 07 j 04:28	0° II		direct	524 Apr 20 j 01:44	13° Y 18'56	
asc. node	523 Jun 12 j 20:21	10° II 46'56		morning max el	524 May 04 j 03:42	20° Y 25'20	24°47'56
morning set	523 Jun 15 j 11:59	16° II 14'48			524 May 12 j 08:12	0° B	
	523 Jun 21 j 22:28	0° E			524 May 29 j 09:59	0° II	
				morning set	524 May 29 j 23:57	1° II 13'21	
superior conj	523 Jun 22 j 14:33	1° E 26'01	1°27'00	asc. node	524 May 29 j 17:25	0° II 38'58	
minimum elong	523 Jun 22 j 12:09	1° E 13'11	1°26'42				
max. Earth dist.	523 Jun 25 j 04:46	6° E 55'44	1.33816 AU	superior conj	524 Jun 05 j 23:52	16° II 20'13	1°10'04
evening rise	523 Jun 30 j 06:23	17° E 17'23		minimum elong	524 Jun 05 j 21:27	16° II 07'05	1°09'40
	523 Jul 06 j 23:36	0° O		max. Earth dist.	524 Jun 07 j 10:31	19° II 28'10	1.32927 AU
desc. node	523 Jul 22 j 03:15	24° O 08'41			524 Jun 12 j 09:47	0° E	
	523 Jul 26 j 13:33	0° P		evening rise	524 Jun 13 j 05:19	1° E 40'17	
evening max el	523 Aug 03 j 12:14	8° P 50'58	27°18'46		524 Jun 28 j 21:20	0° O	
retrograde	523 Aug 16 j 23:22	16° P 09'46		desc. node	524 Jul 08 j 00:16	12° O 58'00	
evening set	523 Aug 24 j 01:14	13° P 25'36		evening max el	524 Jul 15 j 21:39	21° O 47'32	27°23'45
min. Earth dist.	523 Aug 27 j 18:54	9° P 56'37	0.64503 AU	retrograde	524 Jul 29 j 15:44	29° O 05'52	
inferior conj	523 Aug 30 j 02:07	7° P 27'32	-3°03'16	evening set	524 Aug 05 j 20:50	26° O 33'00	
minimum elong	523 Aug 30 j 06:37	7° P 15'23	3°01'48	min. Earth dist.	524 Aug 09 j 10:46	23° O 34'30	0.62831 AU
morning rise	523 Sep 05 j 12:51	2° P 00'01		inferior conj	524 Aug 12 j 06:47	20° O 50'00	-3°52'28
direct	523 Sep 08 j 04:24	1° P 23'43		minimum elong	524 Aug 12 j 11:43	20° O 38'02	3°51'16
asc. node	523 Sep 08 j 19:33	1° P 25'48		morning rise	524 Aug 19 j 03:54	15° O 40'58	
morning max el	523 Sep 14 j 16:32	4° P 51'12	18°00'44	direct	524 Aug 21 j 15:55	15° O 12'08	
	523 Oct 01 j 07:49	0° A		asc. node	524 Aug 25 j 16:36	16° O 28'35	
morning set	523 Oct 02 j 04:52	1° A 28'59		morning max el	524 Aug 28 j 08:17	18° O 37'43	17°52'43
					524 Sep 05 j 14:25	0° P	
superior conj	523 Oct 15 j 15:17	23° A 42'15	0°16'22	morning set	524 Sep 13 j 15:07	13° P 57'34	
minimum elong	523 Oct 15 j 17:12	23° A 49'57	0°16'07		524 Sep 22 j 19:25	0° A	
behind sun begin	523 Oct 15 j 16:06	23° A 45'33					
behind sun end	523 Oct 15 j 18:17	23° A 54'21		superior conj	524 Sep 25 j 03:08	3° A 56'08	0°57'03
desc. node	523 Oct 18 j 02:31	27° A 39'44		minimum elong	524 Sep 25 j 07:55	4° A 16'12	0°56'27
	523 Oct 19 j 13:45	0° M		max. Earth dist.	524 Oct 01 j 22:28	15° A 09'28	1.43469 AU
max. Earth dist.	523 Oct 20 j 07:11	1° M 09'10	1.44602 AU	desc. node	524 Oct 03 j 23:33	18° A 26'46	
evening rise	523 Oct 31 j 23:45	19° M 24'20		evening rise	524 Oct 10 j 07:06	28° A 23'17	
	523 Nov 07 j 21:37	0° J			524 Oct 11 j 08:05	0° M	
greatest brilliancy	523 Nov 15 j 02:26	10° J 49'38	-0.6m		524 Oct 31 j 17:22	0° J	
evening max el	523 Nov 27 j 12:25	27° J 15'08	20°06'56	evening max el	524 Nov 09 j 11:29	10° J 43'36	21°14'32
	523 Nov 30 j 14:49	0° Z		retrograde	524 Nov 18 j 03:11	15° J 52'10	
retrograde	523 Dec 05 j 05:44	1° Z 46'59		asc. node	524 Nov 21 j 15:51	14° J 42'22	
asc. node	523 Dec 05 j 18:49	1° Z 45'18		evening set	524 Nov 22 j 05:39	14° J 17'26	
evening set	523 Dec 08 j 22:08	0° Z 27'53		inferior conj	524 Nov 27 j 14:24	8° J 03'40	1°56'06
	523 Dec 09 j 12:33	30° R J		minimum elong	524 Nov 27 j 12:05	8° J 11'41	1°55'16
inferior conj	523 Dec 14 j 08:51	24° J 24'05	2°38'09	min. Earth dist.	524 Nov 27 j 22:27	7° J 35'58	0.67483 AU
minimum elong	523 Dec 14 j 06:07	24° J 33'14	2°37'21	morning rise	524 Dec 02 j 18:21	1° J 50'23	
min. Earth dist.	523 Dec 15 j 04:48	23° J 17'11	0.66918 AU		524 Dec 05 j 16:46	30° R M	
morning rise	523 Dec 19 j 13:56	18° J 11'02		direct	524 Dec 07 j 22:57	29° M 35'26	
direct	523 Dec 25 j 09:39	15° J 36'08			524 Dec 10 j 08:16	0° J	
morning max el	524 Jan 06 j 03:03	22° J 35'03	25°01'37	morning max el	524 Dec 18 j 11:49	5° J 52'04	23°34'35
	524 Jan 12 j 15:54	0° Z		desc. node	524 Dec 30 j 22:46	21° J 09'19	
desc. node	524 Jan 14 j 01:44	1° Z 46'30			525 Jan 06 j 03:36	0° Z	
	524 Feb 02 j 08:29	0° \approx		morning set	525 Jan 22 j 18:01	26° Z 14'14	
morning set	524 Feb 11 j 07:42	15° \approx 17'16			525 Jan 24 j 22:48	0° \approx	
max. Earth dist.	524 Feb 14 j 23:51	21° \approx 58'21	1.36883 AU	max. Earth dist.	525 Jan 26 j 18:51	3° \approx 11'51	1.38950 AU

superior conj	525 Feb 03 j 06:10	16° \approx 45'48	-1°51'50	morning set	526 Jan 02 j 23:29	5° \approx 46'47	
minimum elong	525 Feb 03 j 09:41	17° \approx 02'18	1°51'35	max. Earth dist.	526 Jan 08 j 16:06	15° \approx 08'32	1.41064 AU
	525 Feb 10 j 04:00	0° \approx					
evening rise	525 Feb 12 j 10:58	4° \approx 27'16		superior conj	526 Jan 16 j 10:41	28° \approx 33'56	-2°02'06
asc. node	525 Feb 17 j 15:11	14° \approx 18'32		minimum elong	526 Jan 16 j 11:51	28° \approx 39'06	2°02'05
	525 Feb 28 j 00:11	0° \approx			526 Jan 17 j 06:00	0° \approx	
evening max el	525 Feb 28 j 19:22	0° \approx 48'28	18°43'21	evening rise	526 Jan 26 j 19:30	17° \approx 33'17	
retrograde	525 Mar 08 j 19:44	4° \approx 42'21			526 Feb 02 j 15:01	0° \approx	
evening set	525 Mar 11 j 03:33	4° \approx 23'54		asc. node	526 Feb 04 j 12:13	3° \approx 12'48	
inferior conj	525 Mar 18 j 21:21	0° \approx 01'29	2°35'01	evening max el	526 Feb 12 j 02:40	13° \approx 34'18	18°15'42
minimum elong	525 Mar 19 j 01:36	29° \approx 53'31	2°33'56	retrograde	526 Feb 19 j 04:01	17° \approx 05'41	
	525 Mar 18 j 22:08	30° \approx		evening set	526 Feb 21 j 17:17	16° \approx 38'59	
min. Earth dist.	525 Mar 22 j 05:31	27° \approx 32'39	0.57645 AU	inferior conj	526 Feb 28 j 17:50	11° \approx 55'47	3°25'46
morning rise	525 Mar 26 j 20:37	24° \approx 46'42		minimum elong	526 Feb 28 j 20:45	11° \approx 49'24	3°25'19
desc. node	525 Mar 28 j 21:58	24° \approx 00'27		min. Earth dist.	526 Mar 04 j 03:20	8° \approx 59'31	0.59696 AU
direct	525 Apr 01 j 11:12	23° \approx 29'01		morning rise	526 Mar 07 j 21:59	6° \approx 16'57	
	525 Apr 14 j 17:29	0° \approx		direct	526 Mar 14 j 09:37	4° \approx 21'28	
morning max el	525 Apr 15 j 19:42	1° \approx 01'42	26°16'50	desc. node	526 Mar 15 j 18:59	4° \approx 26'38	
	525 May 06 j 06:30	0° \approx		morning max el	526 Mar 28 j 16:48	12° \approx 07'33	27°19'25
morning set	525 May 14 j 11:06	16° \approx 08'32			526 Apr 11 j 18:04	0° \approx	
asc. node	525 May 16 j 14:27	20° \approx 41'44			526 Apr 28 j 09:14	0° \approx	
	525 May 20 j 20:52	0° \approx		morning set	526 Apr 28 j 19:46	0° \approx 54'34	
				asc. node	526 May 03 j 11:30	10° \approx 50'41	
superior conj	525 May 21 j 11:14	1° \approx 18'51	0°49'28	superior conj	526 May 05 j 22:57	16° \approx 15'57	0°25'58
minimum elong	525 May 21 j 09:16	1° \approx 08'03	0°49'05	minimum elong	526 May 05 j 21:49	16° \approx 09'42	0°25'44
max. Earth dist.	525 May 21 j 21:25	2° \approx 14'44	1.32421 AU	max. Earth dist.	526 May 05 j 10:01	15° \approx 04'56	1.32294 AU
evening rise	525 May 28 j 10:43	16° \approx 21'20			526 May 12 j 06:30	0° \approx	
	525 Jun 04 j 08:03	0° \approx		evening rise	526 May 12 j 20:14	1° \approx 12'40	
	525 Jun 24 j 04:09	0° \approx			526 May 28 j 12:41	0° \approx	
desc. node	525 Jun 24 j 21:17	0° \approx 47'51		evening max el	526 Jun 10 j 00:33	15° \approx 38'58	25°56'30
evening max el	525 Jun 28 j 02:22	4° \approx 05'49	26°56'07	desc. node	526 Jun 11 j 18:17	17° \approx 13'37	
retrograde	525 Jul 12 j 01:06	11° \approx 21'42		retrograde	526 Jun 24 j 01:29	22° \approx 50'33	
evening set	525 Jul 18 j 23:31	9° \approx 14'16		evening set	526 Jun 30 j 04:42	21° \approx 19'49	
min. Earth dist.	525 Jul 22 j 16:24	6° \approx 34'06	0.60877 AU	min. Earth dist.	526 Jul 04 j 13:10	18° \approx 40'53	0.58817 AU
inferior conj	525 Jul 25 j 22:02	3° \approx 48'53	-4°30'33	inferior conj	526 Jul 07 j 20:18	16° \approx 14'44	-4°48'33
minimum elong	525 Jul 26 j 01:55	3° \approx 40'36	4°30'00	minimum elong	526 Jul 07 j 20:57	16° \approx 13'32	4°48'33
	525 Jul 31 j 00:58	30° \approx		morning rise	526 Jul 15 j 15:30	11° \approx 49'13	
morning rise	525 Aug 02 j 06:07	29° \approx 00'59		direct	526 Jul 18 j 03:37	11° \approx 28'25	
direct	525 Aug 04 j 17:02	28° \approx 37'07		morning max el	526 Jul 26 j 04:54	15° \approx 18'36	18°34'28
	525 Aug 09 j 04:14	0° \approx		asc. node	526 Jul 30 j 10:42	20° \approx 16'39	
morning max el	525 Aug 11 j 21:27	2° \approx 09'48	18°03'33		526 Aug 05 j 11:52	0° \approx	
asc. node	525 Aug 12 j 13:39	2° \approx 50'37		morning set	526 Aug 11 j 10:19	11° \approx 09'40	
morning set	525 Aug 27 j 18:34	27° \approx 15'31					
	525 Aug 29 j 05:59	0° \approx		superior conj	526 Aug 20 j 06:58	28° \approx 08'42	1°41'08
superior conj	525 Sep 06 j 17:54	15° \approx 29'16	1°25'14	minimum elong	526 Aug 20 j 09:17	28° \approx 19'31	1°41'01
minimum elong	525 Sep 06 j 22:09	15° \approx 48'09	1°24'49		526 Aug 21 j 06:53	0° \approx	
max. Earth dist.	525 Sep 14 j 08:22	28° \approx 34'45	1.41813 AU	max. Earth dist.	526 Aug 27 j 13:30	11° \approx 18'14	1.39851 AU
	525 Sep 15 j 04:51	0° \approx		evening rise	526 Aug 31 j 18:26	18° \approx 30'38	
evening rise	525 Sep 20 j 01:26	7° \approx 55'07		desc. node	526 Sep 07 j 17:36	29° \approx 50'19	
desc. node	525 Sep 20 j 20:34	9° \approx 11'31			526 Sep 07 j 20:04	0° \approx	
	525 Oct 04 j 12:37	0° \approx			526 Sep 28 j 21:47	0° \approx	
evening max el	525 Oct 23 j 05:06	24° \approx 13'34	22°31'11	evening max el	526 Oct 05 j 18:47	7° \approx 46'42	23°51'20
retrograde	525 Nov 01 j 22:41	0° \approx 00'42		retrograde	526 Oct 16 j 14:50	14° \approx 09'22	
	525 Nov 01 j 13:35	0° \approx		evening set	526 Oct 21 j 19:04	11° \approx 59'52	
	525 Nov 02 j 07:41	30° \approx		asc. node	526 Oct 26 j 09:55	6° \approx 40'20	
evening set	525 Nov 06 j 13:10	28° \approx 08'56		min. Earth dist.	526 Oct 26 j 15:14	6° \approx 22'21	0.67610 AU
asc. node	525 Nov 08 j 12:52	26° \approx 11'13		inferior conj	526 Oct 27 j 04:25	5° \approx 37'30	0°15'57
inferior conj	525 Nov 11 j 21:32	21° \approx 48'55	1°08'14	minimum elong	526 Oct 27 j 04:02	5° \approx 38'49	0°15'47
minimum elong	525 Nov 11 j 20:01	21° \approx 54'10	1°07'36	transit middle	526 Oct 27 j 04:02	5° \approx 38'49	0°15'47
min. Earth dist.	525 Nov 11 j 18:45	21° \approx 58'32	0.67707 AU	transit begin	526 Oct 27 j 03:22	5° \approx 41'06	
morning rise	525 Nov 17 j 02:43	15° \approx 37'38		transit end	526 Oct 27 j 04:43	5° \approx 36'31	
direct	525 Nov 21 j 16:25	13° \approx 45'07			526 Oct 31 j 22:34	30° \approx	
morning max el	525 Nov 30 j 23:38	19° \approx 14'32	22°07'35	morning rise	526 Nov 01 j 12:57	29° \approx 30'43	
	525 Dec 09 j 22:43	0° \approx		direct	526 Nov 05 j 12:55	28° \approx 00'18	
desc. node	525 Dec 17 j 19:48	11° \approx 01'15			526 Nov 10 j 14:13	0° \approx	
	525 Dec 30 j 08:28	0° \approx		morning max el	526 Nov 13 j 17:49	2° \approx 46'07	20°48'07

	526 Dec 03 j 21:13	0°♊		morning rise	527 Oct 16 j 23:10	13°♊28'13	
desc. node	526 Dec 04 j 16:49	1°♊13'43		direct	527 Oct 20 j 11:07	12°♊17'34	
morning set	526 Dec 13 j 03:10	14°♊08'52		morning max el	527 Oct 27 j 19:54	16°♊29'05	19°41'07
max. Earth dist.	526 Dec 21 j 20:54	28°♊02'02	1.42933 AU		527 Nov 07 j 06:42	0°♋	
	526 Dec 23 j 01:54	0°♋		greatest brilliancy	527 Nov 10 j 11:28	4°♋43'56	-0.7m
				desc. node	527 Nov 21 j 13:54	21°♋41'20	
superior conj	526 Dec 28 j 15:25	9°♋13'24	-1°59'04	morning set	527 Nov 22 j 00:18	22°♋21'32	
minimum elong	526 Dec 28 j 12:03	8°♋59'12	1°58'55		527 Nov 26 j 22:22	0°♌	
evening rise	527 Jan 09 j 13:07	29°♋54'19		max. Earth dist.	527 Dec 04 j 09:29	11°♌44'17	1.44300 AU
	527 Jan 09 j 14:24	0°♍					
asc. node	527 Jan 22 j 09:16	21°♍31'11		superior conj	527 Dec 08 j 17:27	18°♌39'54	-1°38'24
evening max el	527 Jan 26 j 14:01	26°♍39'28	18°07'40	minimum elong	527 Dec 08 j 09:36	18°♌08'18	1°37'44
	527 Feb 01 j 06:16	0°♎			527 Dec 15 j 16:10	0°♍	
retrograde	527 Feb 02 j 03:42	0°♎03'55		evening rise	527 Dec 22 j 11:36	11°♍23'36	
	527 Feb 03 j 01:14	30°♎			528 Jan 02 j 16:12	0°♎	
evening set	527 Feb 04 j 21:44	29°♎27'43		asc. node	528 Jan 09 j 06:17	9°♎03'19	
inferior conj	527 Feb 11 j 08:36	24°♎23'18	3°46'47	evening max el	528 Jan 10 j 02:33	9°♎57'03	18°18'39
minimum elong	527 Feb 11 j 09:19	24°♎21'28	3°46'45	retrograde	528 Jan 16 j 14:16	13°♎27'37	
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morning rise	527 Feb 17 j 19:37	18°♎29'11		inferior conj	528 Jan 25 j 13:42	7°♎17'00	3°45'31
direct	527 Feb 24 j 17:51	16°♎01'30		minimum elong	528 Jan 25 j 12:35	7°♎20'10	3°45'26
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morning max el	527 Mar 10 j 20:04	23°♎53'27	27°47'02	morning rise	528 Jan 31 j 11:28	1°♎13'27	
	527 Mar 16 j 08:24	0°♏			528 Feb 02 j 05:00	30°♏	
	527 Apr 05 j 00:23	0°♐		direct	528 Feb 07 j 10:16	28°♏26'19	
morning set	527 Apr 12 j 23:58	15°♐24'22			528 Feb 13 j 02:13	0°♐	
max. Earth dist.	527 Apr 18 j 20:29	27°♐45'20	1.32538 AU	desc. node	528 Feb 17 j 13:04	3°♐00'23	
	527 Apr 19 j 21:19	0°♑		morning max el	528 Feb 21 j 04:05	6°♐18'11	27°37'40
					528 Mar 10 j 06:22	0°♑	
superior conj	527 Apr 20 j 09:18	1°♑05'10	0°00'20	morning set	528 Mar 26 j 21:17	29°♑29'57	
minimum elong	527 Apr 20 j 09:17	1°♑05'05	0°00'20		528 Mar 27 j 03:19	0°♒	
behind sun begin	527 Apr 20 j 04:10	0°♑37'16		max. Earth dist.	528 Apr 01 j 00:49	10°♒02'24	1.33181 AU
behind sun end	527 Apr 20 j 14:23	1°♑32'55					
asc. node	527 Apr 20 j 08:34	1°♑01'09		superior conj	528 Apr 03 j 16:30	15°♒40'28	-0°26'36
evening rise	527 Apr 27 j 07:45	16°♑06'42		minimum elong	528 Apr 03 j 17:47	15°♒47'23	0°26'19
	527 May 04 j 05:50	0°♓		asc. node	528 Apr 06 j 05:37	21°♒09'04	
evening max el	527 May 22 j 16:34	26°♓31'15	24°32'20		528 Apr 10 j 08:42	0°♓	
	527 May 26 j 20:24	0°♔		evening rise	528 Apr 10 j 19:26	0°♓56'41	
desc. node	527 May 29 j 15:18	1°♔42'47			528 Apr 27 j 04:42	0°♓	
retrograde	527 Jun 05 j 14:37	3°♔33'18		evening max el	528 May 03 j 07:08	7°♓03'40	22°57'08
evening set	527 Jun 10 j 10:47	2°♔40'40		desc. node	528 May 15 j 12:19	13°♓39'00	
	527 Jun 15 j 18:56	30°♓		retrograde	528 May 16 j 15:26	13°♓41'54	
min. Earth dist.	527 Jun 16 j 03:50	29°♓46'14	0.56924 AU	evening set	528 May 20 j 00:50	13°♓16'39	
inferior conj	527 Jun 18 j 22:47	27°♓58'51	-4°34'00	min. Earth dist.	528 May 27 j 16:08	9°♓53'28	0.55535 AU
minimum elong	527 Jun 18 j 18:33	28°♓05'40	4°33'30	inferior conj	528 May 29 j 05:56	8°♓58'52	-3°35'05
morning rise	527 Jun 27 j 05:04	23°♓53'49		minimum elong	528 May 28 j 22:31	9°♓09'35	3°33'13
direct	527 Jun 29 j 19:55	23°♓34'56		morning rise	528 Jun 06 j 22:43	5°♓05'31	
morning max el	527 Jul 09 j 03:44	27°♓55'08	19°26'27	direct	528 Jun 09 j 17:24	4°♓47'18	
	527 Jul 11 j 04:16	0°♕		morning max el	528 Jun 20 j 15:51	9°♓51'15	20°39'15
asc. node	527 Jul 17 j 07:46	8°♕32'45		asc. node	528 Jul 03 j 04:51	27°♓26'41	
morning set	527 Jul 26 j 10:43	25°♕30'19			528 Jul 04 j 13:54	0°♕	
	527 Jul 28 j 16:29	0°♖		morning set	528 Jul 09 j 16:54	10°♕09'05	
superior conj	527 Aug 03 j 12:46	11°♖39'02	1°46'42	superior conj	528 Jul 17 j 06:24	25°♕45'40	1°44'00
minimum elong	527 Aug 03 j 13:03	11°♖40'29	1°46'42	minimum elong	528 Jul 17 j 05:10	25°♕39'21	1°43'57
max. Earth dist.	527 Aug 09 j 17:08	23°♖25'32	1.37834 AU		528 Jul 19 j 08:41	0°♗	
evening rise	527 Aug 13 j 11:54	0°♗15'38		max. Earth dist.	528 Jul 22 j 00:27	5°♗15'21	1.35997 AU
	527 Aug 13 j 08:22	0°♘		evening rise	528 Jul 26 j 02:08	13°♗00'47	
desc. node	527 Aug 25 j 14:39	20°♘18'57			528 Aug 04 j 19:07	0°♘	
	527 Sep 01 j 02:32	0°♙		desc. node	528 Aug 11 j 11:41	10°♘31'11	
evening max el	527 Sep 18 j 06:41	21°♙23'45	25°08'14		528 Aug 26 j 01:11	0°♙	
retrograde	527 Sep 30 j 02:52	28°♙14'49		evening max el	528 Aug 30 j 18:20	5°♙00'45	26°14'30
evening set	527 Oct 05 j 21:42	25°♙48'37		retrograde	528 Sep 12 j 10:08	12°♙10'37	
min. Earth dist.	527 Oct 10 j 09:29	20°♙45'55	0.67189 AU	evening set	528 Sep 18 j 19:05	9°♙31'21	
inferior conj	527 Oct 11 j 09:22	19°♙27'47	-0°39'17	min. Earth dist.	528 Sep 22 j 23:10	5°♙05'09	0.66425 AU
minimum elong	527 Oct 11 j 10:22	19°♙24'34	0°38'52	inferior conj	528 Sep 24 j 10:31	3°♙16'06	-1°36'00
asc. node	527 Oct 13 j 06:57	17°♙02'44		minimum elong	528 Sep 24 j 12:59	3°♙08'28	1°34'59



























































































































	528 Sep 27 j 05:44	30° \mathbb{R} \mathbb{M}		asc. node	529 Sep 16 j 01:05	10° \mathbb{M} 48'14	
asc. node	528 Sep 29 j 04:01	28° \mathbb{M} 13'07		direct	529 Sep 17 j 05:36	10° \mathbb{M} 40'32	
morning rise	528 Sep 30 j 07:17	27° \mathbb{M} 26'31		morning max el	529 Sep 23 j 18:39	14° \mathbb{M} 13'12	18°13'21
direct	528 Oct 03 j 09:20	26° \mathbb{M} 32'14			529 Oct 05 j 00:28	0° \mathbb{L}	
	528 Oct 09 j 20:57	0° \mathbb{L}		morning set	529 Oct 12 j 09:51	12° \mathbb{L} 06'53	
morning max el	528 Oct 10 j 04:55	0° \mathbb{L} 19'46	18°49'05		529 Oct 23 j 10:11	0° \mathbb{M}	
	528 Oct 30 j 15:38	0° \mathbb{M}		desc. node	529 Oct 25 j 07:59	3° \mathbb{M} 02'35	
morning set	528 Oct 31 j 14:51	1° \mathbb{M} 31'45					
desc. node	528 Nov 07 j 10:58	12° \mathbb{M} 18'55		superior conj	529 Oct 27 j 00:50	5° \mathbb{M} 44'46	-0°11'16
max. Earth dist.	528 Nov 16 j 02:36	25° \mathbb{M} 54'41	1.44993 AU	minimum elong	529 Oct 26 j 23:23	5° \mathbb{M} 39'01	0°11'04
				behind sun begin	529 Oct 26 j 15:15	5° \mathbb{M} 06'45	
superior conj	528 Nov 16 j 22:27	27° \mathbb{M} 12'45	-0°59'52	behind sun end	529 Oct 27 j 07:32	6° \mathbb{M} 11'17	
minimum elong	528 Nov 16 j 15:08	26° \mathbb{M} 43'59	0°58'59	max. Earth dist.	529 Oct 29 j 21:07	10° \mathbb{M} 14'24	1.44954 AU
	528 Nov 18 j 16:56	0° \mathbb{J}			529 Nov 11 j 12:27	0° \mathbb{J}	
evening rise	528 Dec 02 j 11:13	21° \mathbb{J} 55'00		evening rise	529 Nov 12 j 11:40	1° \mathbb{J} 30'22	
	528 Dec 07 j 11:27	0° \mathbb{Z}		greatest brilliancy	529 Nov 24 j 14:35	20° \mathbb{J} 14'06	-0.7m
evening max el	528 Dec 23 j 13:40	23° \mathbb{Z} 21'42	18°47'51		529 Dec 01 j 07:30	0° \mathbb{Z}	
asc. node	528 Dec 26 j 03:18	25° \mathbb{Z} 36'27		evening max el	529 Dec 06 j 21:16	6° \mathbb{Z} 49'29	19°33'50
retrograde	528 Dec 30 j 07:36	27° \mathbb{Z} 09'19		asc. node	529 Dec 13 j 00:20	10° \mathbb{Z} 55'25	
evening set	529 Jan 02 j 11:54	26° \mathbb{Z} 11'31		retrograde	529 Dec 14 j 04:20	11° \mathbb{Z} 03'01	
inferior conj	529 Jan 08 j 05:22	20° \mathbb{Z} 29'56	3°28'11	evening set	529 Dec 17 j 15:45	9° \mathbb{Z} 52'20	
minimum elong	529 Jan 08 j 03:06	20° \mathbb{Z} 36'56	3°27'48	inferior conj	529 Dec 23 j 04:23	3° \mathbb{Z} 56'00	2°59'04
min. Earth dist.	529 Jan 09 j 23:20	18° \mathbb{Z} 21'28	0.65254 AU	minimum elong	529 Dec 23 j 01:39	4° \mathbb{Z} 04'57	2°58'23
morning rise	529 Jan 13 j 17:56	14° \mathbb{Z} 20'46		min. Earth dist.	529 Dec 24 j 08:00	2° \mathbb{Z} 25'48	0.66423 AU
direct	529 Jan 20 j 09:45	11° \mathbb{Z} 28'42			529 Dec 26 j 06:57	30° \mathbb{R} \mathbb{J}	
morning max el	529 Feb 02 j 13:55	19° \mathbb{Z} 11'07	26°55'21	morning rise	529 Dec 28 j 11:18	27° \mathbb{J} 43'46	
desc. node	529 Feb 03 j 10:08	20° \mathbb{Z} 02'46		direct	530 Jan 03 j 15:16	24° \mathbb{J} 59'36	
	529 Feb 11 j 19:15	0° \mathbb{X}			530 Jan 13 j 12:38	0° \mathbb{Z}	
	529 Mar 03 j 06:18	0° \mathbb{X}		morning max el	530 Jan 15 j 23:04	2° \mathbb{Z} 18'37	25°47'51
morning set	529 Mar 10 j 08:32	13° \mathbb{X} 01'38		desc. node	530 Jan 21 j 07:11	8° \mathbb{Z} 14'46	
max. Earth dist.	529 Mar 14 j 19:05	21° \mathbb{X} 46'00	1.34263 AU		530 Feb 05 j 23:03	0° \mathbb{X}	
				morning set	530 Feb 21 j 05:17	25° \mathbb{X} 45'30	
superior conj	529 Mar 18 j 18:31	29° \mathbb{X} 55'44	-0°53'41		530 Feb 23 j 12:01	0° \mathbb{X}	
minimum elong	529 Mar 18 j 21:07	0° \mathbb{Y} 09'20	0°53'12	max. Earth dist.	530 Feb 25 j 01:18	2° \mathbb{X} 56'58	1.35807 AU
	529 Mar 18 j 19:20	0° \mathbb{Y}					
asc. node	529 Mar 24 j 02:40	11° \mathbb{Y} 10'19		superior conj	530 Mar 02 j 12:42	13° \mathbb{X} 42'42	-1°19'27
evening rise	529 Mar 26 j 05:27	15° \mathbb{Y} 36'32		minimum elong	530 Mar 02 j 16:21	14° \mathbb{X} 01'06	1°18'55
	529 Apr 02 j 12:54	0° \mathbb{B}		evening rise	530 Mar 10 j 11:43	29° \mathbb{X} 59'05	
evening max el	529 Apr 15 j 03:41	17° \mathbb{B} 48'00	21°25'33		530 Mar 10 j 11:54	0° \mathbb{Y}	
retrograde	529 Apr 27 j 06:31	23° \mathbb{B} 42'19		asc. node	530 Mar 10 j 23:41	0° \mathbb{Y} 59'54	
evening set	529 Apr 29 j 15:38	23° \mathbb{B} 29'23		evening max el	530 Mar 28 j 10:58	29° \mathbb{Y} 05'10	20°07'40
desc. node	529 May 02 j 09:20	22° \mathbb{B} 44'58			530 Mar 29 j 10:51	0° \mathbb{B}	
inferior conj	529 May 09 j 01:10	19° \mathbb{B} 28'53	-1°53'29	retrograde	530 Apr 07 j 20:54	4° \mathbb{B} 05'39	
minimum elong	529 May 08 j 19:56	19° \mathbb{B} 36'14	1°51'41	evening set	530 Apr 09 j 22:51	3° \mathbb{B} 54'31	
min. Earth dist.	529 May 09 j 04:56	19° \mathbb{B} 23'36	0.54963 AU	inferior conj	530 Apr 18 j 22:01	29° \mathbb{Y} 55'43	0°06'00
morning rise	529 May 18 j 00:46	15° \mathbb{B} 29'44		minimum elong	530 Apr 18 j 22:17	29° \mathbb{Y} 55'18	0°05'54
direct	529 May 21 j 04:00	15° \mathbb{B} 08'19		transit middle	530 Apr 18 j 22:17	29° \mathbb{Y} 55'18	0°05'54
morning max el	529 Jun 02 j 17:05	21° \mathbb{B} 05'01	22°09'44	transit begin	530 Apr 18 j 18:34	0° \mathbb{B} 00'52	
	529 Jun 10 j 05:56	0° \mathbb{I}		transit end	530 Apr 19 j 02:00	29° \mathbb{Y} 49'44	
asc. node	529 Jun 20 j 01:56	16° \mathbb{I} 49'08			530 Apr 18 j 19:09	30° \mathbb{R} \mathbb{Y}	
morning set	529 Jun 24 j 02:44	25° \mathbb{I} 00'01		desc. node	530 Apr 19 j 06:22	29° \mathbb{Y} 43'11	
	529 Jun 26 j 11:46	0° \mathbb{E}		min. Earth dist.	530 Apr 20 j 18:42	28° \mathbb{Y} 49'02	0.55360 AU
				morning rise	530 Apr 27 j 19:48	25° \mathbb{Y} 32'27	
superior conj	529 Jul 01 j 08:15	10° \mathbb{E} 17'41	1°34'45	direct	530 May 01 j 17:37	24° \mathbb{Y} 59'01	
minimum elong	529 Jul 01 j 06:06	10° \mathbb{E} 06'22	1°34'33		530 May 13 j 11:08	0° \mathbb{B}	
max. Earth dist.	529 Jul 04 j 16:06	17° \mathbb{E} 13'02	1.34499 AU	morning max el	530 May 15 j 10:04	1° \mathbb{B} 44'08	23°50'22
evening rise	529 Jul 09 j 08:23	26° \mathbb{E} 33'50			530 Jun 03 j 16:44	0° \mathbb{I}	
	529 Jul 11 j 03:22	0° \mathbb{Q}		asc. node	530 Jun 06 j 22:59	6° \mathbb{I} 31'39	
desc. node	529 Jul 29 j 08:41	0° \mathbb{M} 19'42		morning set	530 Jun 08 j 14:21	9° \mathbb{I} 56'39	
	529 Jul 29 j 03:13	0° \mathbb{M}					
evening max el	529 Aug 13 j 06:16	18° \mathbb{M} 31'24	27°02'22	superior conj	530 Jun 15 j 15:27	25° \mathbb{I} 05'21	1°20'19
retrograde	529 Aug 26 j 12:09	25° \mathbb{M} 49'45		minimum elong	530 Jun 15 j 12:59	24° \mathbb{I} 52'03	1°19'58
evening set	529 Sep 02 j 08:55	23° \mathbb{M} 04'34		max. Earth dist.	530 Jun 17 j 17:14	29° \mathbb{I} 32'10	1.33389 AU
min. Earth dist.	529 Sep 06 j 06:00	19° \mathbb{M} 15'08	0.65308 AU		530 Jun 17 j 22:28	0° \mathbb{E}	
inferior conj	529 Sep 08 j 05:45	16° \mathbb{M} 58'51	-2°32'12	evening rise	530 Jun 23 j 02:15	10° \mathbb{E} 41'24	
minimum elong	529 Sep 08 j 09:37	16° \mathbb{M} 47'48	2°30'48		530 Jul 03 j 10:55	0° \mathbb{Q}	
morning rise	529 Sep 14 j 11:01	11° \mathbb{M} 22'17		desc. node	530 Jul 16 j 05:42	19° \mathbb{Q} 34'18	

	530 Jul 24 j 23:11	0° \mathbb{M}		evening max el	531 Jul 09 j 01:24	14° \mathcal{Q} 26'50	27°16'10
evening max el	530 Jul 26 j 17:27	1° \mathbb{M} 44'48	27°24'49	retrograde	531 Jul 22 j 21:28	21° \mathcal{Q} 43'22	
retrograde	530 Aug 09 j 08:14	9° \mathbb{M} 03'52		evening set	531 Jul 30 j 01:09	19° \mathcal{Q} 19'58	
evening set	530 Aug 16 j 12:13	6° \mathbb{M} 23'09		min. Earth dist.	531 Aug 02 j 15:23	16° \mathcal{Q} 30'58	0.62025 AU
min. Earth dist.	530 Aug 20 j 03:54	3° \mathbb{M} 07'51	0.63829 AU	inferior conj	531 Aug 05 j 15:59	13° \mathcal{Q} 44'25	-4°10'28
inferior conj	530 Aug 22 j 16:36	0° \mathbb{M} 30'56	-3°25'07	minimum elong	531 Aug 05 j 20:42	13° \mathcal{Q} 33'34	4°09'31
minimum elong	530 Aug 22 j 21:24	0° \mathbb{M} 18'28	3°23'42	morning rise	531 Aug 12 j 17:40	8° \mathcal{Q} 43'50	
	530 Aug 23 j 04:34	30° \mathcal{R} \mathcal{Q}		direct	531 Aug 15 j 05:02	8° \mathcal{Q} 17'15	
morning rise	530 Aug 29 j 07:37	25° \mathcal{Q} 10'36		asc. node	531 Aug 20 j 19:13	10° \mathcal{Q} 36'46	
direct	530 Aug 31 j 21:17	24° \mathcal{Q} 37'52		morning max el	531 Aug 22 j 01:23	11° \mathcal{Q} 44'37	17°54'59
asc. node	530 Sep 02 j 22:09	24° \mathcal{Q} 58'44			531 Sep 03 j 06:27	0° \mathbb{M}	
morning max el	530 Sep 07 j 10:26	28° \mathcal{Q} 03'52	17°55'00	morning set	531 Sep 07 j 01:53	6° \mathbb{M} 51'43	
	530 Sep 09 j 04:45	0° \mathbb{M}					
morning set	530 Sep 24 j 07:35	23° \mathbb{M} 59'50		superior conj	531 Sep 17 j 20:56	26° \mathbb{M} 01'16	1°10'35
	530 Sep 27 j 19:24	0° \mathcal{Q}		minimum elong	531 Sep 18 j 01:47	26° \mathbb{M} 22'08	1°10'02
					531 Sep 20 j 04:53	0° \mathcal{Q}	
superior conj	530 Oct 06 j 21:19	15° \mathcal{Q} 12'52	0°35'02	max. Earth dist.	531 Sep 25 j 04:22	8° \mathcal{Q} 17'14	1.42821 AU
minimum elong	530 Oct 07 j 00:57	15° \mathcal{Q} 27'45	0°34'32	desc. node	531 Sep 29 j 02:01	14° \mathcal{Q} 35'53	
desc. node	530 Oct 12 j 05:00	23° \mathcal{Q} 49'25		evening rise	531 Oct 02 j 06:53	19° \mathcal{Q} 40'07	
max. Earth dist.	530 Oct 12 j 14:38	24° \mathcal{Q} 27'56	1.44198 AU		531 Oct 08 j 23:49	0° \mathbb{M}	
	530 Oct 16 j 02:26	0° \mathbb{M}			531 Oct 30 j 10:20	0° \mathcal{Q}	
evening rise	530 Oct 22 j 20:49	10° \mathbb{M} 31'51		evening max el	531 Nov 02 j 20:33	3° \mathcal{Q} 48'05	21°46'19
	530 Nov 04 j 17:46	0° \mathcal{Q}		retrograde	531 Nov 11 j 22:43	9° \mathcal{Q} 12'31	
evening max el	530 Nov 19 j 23:49	20° \mathcal{Q} 18'43	20°34'24	evening set	531 Nov 16 j 06:12	7° \mathcal{Q} 30'31	
retrograde	530 Nov 28 j 02:02	25° \mathcal{Q} 05'17		asc. node	531 Nov 16 j 18:25	7° \mathcal{Q} 04'42	
asc. node	530 Nov 29 j 21:22	24° \mathcal{Q} 46'49		inferior conj	531 Nov 21 j 14:37	1° \mathcal{Q} 13'44	1°36'25
evening set	530 Dec 01 j 22:29	23° \mathcal{Q} 39'49		minimum elong	531 Nov 21 j 12:36	1° \mathcal{Q} 20'45	1°35'38
inferior conj	530 Dec 07 j 08:11	17° \mathcal{Q} 31'38	2°21'08	min. Earth dist.	531 Nov 21 j 17:55	1° \mathcal{Q} 02'21	0.67627 AU
minimum elong	530 Dec 07 j 05:34	17° \mathcal{Q} 40'32	2°20'17		531 Nov 22 j 12:01	30° \mathcal{R} \mathbb{M}	
min. Earth dist.	530 Dec 07 j 22:57	16° \mathcal{Q} 41'25	0.67207 AU	morning rise	531 Nov 26 j 18:51	25° \mathbb{M} 01'18	
morning rise	530 Dec 12 j 12:29	11° \mathcal{Q} 18'22		direct	531 Dec 01 j 17:05	22° \mathbb{M} 55'52	
direct	530 Dec 18 j 01:59	8° \mathcal{Q} 51'10		morning max el	531 Dec 11 j 16:58	28° \mathbb{M} 51'42	22°57'02
morning max el	530 Dec 29 j 07:21	15° \mathcal{Q} 32'48	24°25'05		531 Dec 12 j 19:18	0° \mathcal{Q}	
desc. node	531 Jan 08 j 04:12	27° \mathcal{Q} 16'14		desc. node	531 Dec 26 j 01:14	16° \mathcal{Q} 52'32	
	531 Jan 10 j 04:55	0° \mathcal{Q}			532 Jan 03 j 23:34	0° \mathcal{Q}	
	531 Jan 29 j 21:38	0° \approx		morning set	532 Jan 15 j 04:19	17° \mathcal{Q} 47'10	
morning set	531 Feb 03 j 05:58	7° \approx 26'06		max. Earth dist.	532 Jan 19 j 17:57	25° \mathcal{Q} 30'04	1.39870 AU
max. Earth dist.	531 Feb 06 j 22:27	13° \approx 59'34	1.37744 AU		532 Jan 22 j 08:02	0° \approx	
superior conj	531 Feb 13 j 19:48	26° \approx 52'47	-1°41'44	superior conj	532 Jan 27 j 11:28	9° \approx 14'07	-1°57'31
minimum elong	531 Feb 13 j 23:45	27° \approx 11'50	1°41'20	minimum elong	532 Jan 27 j 14:16	9° \approx 26'56	1°57'23
	531 Feb 15 j 10:26	0° \mathcal{H}		evening rise	532 Feb 06 j 03:10	27° \approx 25'50	
evening rise	531 Feb 22 j 11:56	13° \mathcal{H} 58'08			532 Feb 07 j 11:32	0° \mathcal{H}	
asc. node	531 Feb 25 j 20:42	20° \mathcal{H} 33'06		asc. node	532 Feb 12 j 17:44	9° \mathcal{H} 43'39	
	531 Mar 03 j 01:32	0° \mathbb{Y}		evening max el	532 Feb 22 j 08:49	23° \mathcal{H} 30'35	18°29'04
evening max el	531 Mar 11 j 05:26	11° \mathbb{Y} 01'04	19°08'19	retrograde	532 Feb 29 j 21:56	27° \mathcal{H} 13'05	
retrograde	531 Mar 19 j 23:54	15° \mathbb{Y} 14'48		evening set	532 Mar 03 j 08:10	26° \mathcal{H} 51'17	
evening set	531 Mar 22 j 04:51	14° \mathbb{Y} 59'54		inferior conj	532 Mar 10 j 18:10	22° \mathcal{H} 19'47	3°00'41
inferior conj	531 Mar 30 j 09:38	10° \mathbb{Y} 48'00	1°49'59	minimum elong	532 Mar 10 j 22:04	22° \mathcal{H} 11'57	2°59'51
minimum elong	531 Mar 30 j 13:31	10° \mathbb{Y} 41'22	1°48'48	min. Earth dist.	532 Mar 14 j 04:27	19° \mathcal{H} 36'34	0.58492 AU
min. Earth dist.	531 Apr 02 j 09:52	8° \mathbb{Y} 45'24	0.56634 AU	morning rise	532 Mar 18 j 09:18	16° \mathcal{H} 53'39	
desc. node	531 Apr 06 j 03:23	6° \mathbb{Y} 35'06		desc. node	532 Mar 23 j 00:24	15° \mathcal{H} 25'16	
morning rise	531 Apr 07 j 19:14	5° \mathbb{Y} 51'45		direct	532 Mar 24 j 09:47	15° \mathcal{H} 20'15	
direct	531 Apr 12 j 19:00	4° \mathbb{Y} 53'41		morning max el	532 Apr 07 j 18:24	22° \mathcal{H} 59'09	26°47'30
morning max el	531 Apr 27 j 00:31	12° \mathbb{Y} 12'24	25°28'07		532 Apr 14 j 00:38	0° \mathbb{Y}	
	531 May 10 j 18:41	0° \mathcal{B}			532 May 02 j 16:30	0° \mathcal{B}	
morning set	531 May 24 j 02:09	24° \mathcal{B} 53'53		morning set	532 May 07 j 12:29	9° \mathcal{B} 46'21	
asc. node	531 May 24 j 20:00	26° \mathcal{B} 28'25		asc. node	532 May 10 j 17:03	16° \mathcal{B} 34'33	
	531 May 26 j 11:30	0° \mathbb{I}					
				superior conj	532 May 14 j 13:33	25° \mathcal{B} 00'24	0°39'48
superior conj	531 May 31 j 01:50	10° \mathbb{I} 01'33	1°01'43	minimum elong	532 May 14 j 11:54	24° \mathcal{B} 51'17	0°39'28
minimum elong	531 May 30 j 23:33	9° \mathbb{I} 49'06	1°01'19	max. Earth dist.	532 May 14 j 14:00	25° \mathcal{B} 02'50	1.32322 AU
max. Earth dist.	531 Jun 01 j 01:42	12° \mathbb{I} 11'54	1.32670 AU		532 May 16 j 20:09	0° \mathbb{I}	
evening rise	531 Jun 07 j 04:16	25° \mathbb{I} 12'50		evening rise	532 May 21 j 11:42	9° \mathbb{I} 59'26	
	531 Jun 09 j 12:51	0° \mathcal{E}			532 May 31 j 20:21	0° \mathcal{E}	
	531 Jun 27 j 00:59	0° \mathcal{Q}		desc. node	532 Jun 18 j 23:44	25° \mathcal{E} 18'24	
desc. node	531 Jul 03 j 02:43	8° \mathcal{Q} 00'31		evening max el	532 Jun 20 j 03:27	26° \mathcal{E} 26'23	26°34'22

	532 Jun 24 j 09:33	0°♎			533 May 08 j 09:19	0°♊	
retrograde	532 Jul 04 j 03:04	3°♎40'30			533 May 26 j 03:57	0°♊	
evening set	532 Jul 10 j 19:13	1°♎47'27		evening max el	533 Jun 01 j 22:27	7°♊39'56	25°22'59
	532 Jul 13 j 14:07	30°♊		desc. node	533 Jun 05 j 20:45	10°♊59'12	
min. Earth dist.	532 Jul 14 j 16:42	29°♊10'24	0.59999 AU	retrograde	533 Jun 15 j 23:15	14°♊49'31	
inferior conj	532 Jul 18 j 00:27	26°♊30'43	-4°41'20	evening set	533 Jun 21 j 14:28	13°♊35'19	
minimum elong	532 Jul 18 j 03:15	26°♊25'06	4°41'05	min. Earth dist.	533 Jun 26 j 10:23	10°♊51'41	0.57967 AU
morning rise	532 Jul 25 j 13:16	21°♊52'32		inferior conj	533 Jun 29 j 14:30	8°♊39'28	-4°47'13
direct	532 Jul 28 j 00:37	21°♊30'03		minimum elong	533 Jun 29 j 13:10	8°♊41'49	4°47'10
morning max el	532 Aug 04 j 12:33	25°♊08'23	18°14'18	morning rise	533 Jul 07 j 14:29	4°♊23'36	
asc. node	532 Aug 06 j 16:16	27°♊28'13		direct	533 Jul 10 j 03:30	4°♊03'52	
	532 Aug 08 j 15:05	0°♎		morning max el	533 Jul 18 j 16:46	8°♊05'05	18°54'04
morning set	532 Aug 20 j 11:09	20°♎26'58		asc. node	533 Jul 24 j 13:20	15°♊17'12	
	532 Aug 25 j 12:40	0°♐			533 Aug 01 j 22:51	0°♎	
				morning set	533 Aug 04 j 06:56	4°♎33'07	
superior conj	532 Aug 29 j 21:59	8°♐05'23	1°33'22	superior conj	533 Aug 12 j 18:50	21°♎08'28	1°44'38
minimum elong	532 Aug 30 j 01:30	8°♐21'17	1°33'06	minimum elong	533 Aug 12 j 20:15	21°♎15'15	1°44'35
max. Earth dist.	532 Sep 06 j 12:24	21°♐26'48	1.40999 AU		533 Aug 17 j 12:38	0°♐	
evening rise	532 Sep 11 j 10:07	29°♐37'01			533 Aug 19 j 15:49	3°♐51'12	1.38978 AU
	532 Sep 11 j 15:45	0°♊		max. Earth dist.	533 Aug 23 j 13:41	10°♐42'16	
desc. node	532 Sep 14 j 23:04	5°♊18'51		evening rise	533 Aug 23 j 13:41	10°♐42'16	
	532 Oct 01 j 12:43	0°♌		desc. node	533 Sep 01 j 20:07	25°♐53'54	
evening max el	532 Oct 15 j 12:11	17°♌19'06	23°05'05		533 Sep 04 j 11:49	0°♊	
retrograde	532 Oct 25 j 17:01	23°♌22'08			533 Sep 27 j 03:31	0°♌	
evening set	532 Oct 30 j 13:16	21°♌22'32		evening max el	533 Sep 28 j 00:41	0°♌53'31	24°24'53
asc. node	532 Nov 02 j 15:28	18°♌03'28		retrograde	533 Oct 09 j 07:44	7°♌30'14	
inferior conj	532 Nov 04 j 21:53	15°♌00'52	0°46'30	evening set	533 Oct 14 j 18:02	5°♌13'20	
minimum elong	532 Nov 04 j 20:48	15°♌04'33	0°46'03		533 Oct 19 j 07:34	30°♊	
min. Earth dist.	532 Nov 04 j 14:33	15°♌26'05	0.67709 AU	min. Earth dist.	533 Oct 19 j 10:29	29°♊50'14	0.67464 AU
morning rise	532 Nov 10 j 04:16	8°♌51'20		inferior conj	533 Oct 20 j 04:11	28°♊50'50	-0°07'12
direct	532 Nov 14 j 11:51	7°♌08'40		minimum elong	533 Oct 20 j 04:22	28°♊50'15	0°07'08
morning max el	532 Nov 23 j 07:23	12°♌18'39	21°32'30	transit middle	533 Oct 20 j 04:22	28°♊50'15	0°07'08
	532 Dec 07 j 04:20	0°♊		transit begin	533 Oct 20 j 01:54	28°♊58'31	
desc. node	532 Dec 11 j 22:17	6°♊54'09		transit end	533 Oct 20 j 06:49	28°♊42'00	
morning set	532 Dec 24 j 21:39	26°♊46'02		asc. node	533 Oct 20 j 12:31	28°♊22'56	
	532 Dec 26 j 22:20	0°♊		morning rise	533 Oct 25 j 14:43	22°♊46'40	
max. Earth dist.	532 Dec 31 j 18:24	7°♊52'02	1.41909 AU	direct	533 Oct 29 j 09:13	21°♊25'10	
				morning max el	533 Nov 06 j 04:58	25°♊55'42	20°17'54
superior conj	533 Jan 08 j 06:28	20°♊34'13	-2°02'43		533 Nov 09 j 19:34	0°♌	
minimum elong	533 Jan 08 j 05:56	20°♊31'53	2°02'43	desc. node	533 Nov 28 j 19:21	27°♌14'03	
	533 Jan 13 j 14:36	0°♊			533 Nov 30 j 14:45	0°♊	
evening rise	533 Jan 19 j 05:55	10°♊14'08		morning set	533 Dec 03 j 19:31	4°♊55'42	
asc. node	533 Jan 29 j 14:47	28°♊24'02		max. Earth dist.	533 Dec 14 j 02:13	21°♊06'46	1.43582 AU
	533 Jan 30 j 15:51	0°♋					
evening max el	533 Feb 04 j 18:09	6°♋25'26	18°09'51	superior conj	533 Dec 19 j 23:59	0°♊43'12	-1°52'37
retrograde	533 Feb 11 j 13:28	9°♋52'32		minimum elong	533 Dec 19 j 18:26	0°♊20'19	1°52'17
evening set	533 Feb 14 j 04:40	9°♋22'02			533 Dec 19 j 13:30	0°♊	
inferior conj	533 Feb 20 j 22:56	4°♋29'40	3°37'53	evening rise	534 Jan 01 j 16:00	22°♊14'52	
minimum elong	533 Feb 21 j 00:56	4°♋25'02	3°37'40		534 Jan 06 j 02:59	0°♊	
min. Earth dist.	533 Feb 24 j 05:15	1°♋29'16	0.60596 AU	asc. node	534 Jan 16 j 11:49	16°♊25'03	
	533 Feb 26 j 00:04	30°♊		evening max el	534 Jan 19 j 06:25	19°♊37'40	18°10'05
morning rise	533 Feb 27 j 19:20	28°♊43'01		retrograde	534 Jan 25 j 18:17	23°♊03'17	
direct	533 Mar 06 j 12:34	26°♊32'41		evening set	534 Jan 28 j 14:11	22°♊22'58	
desc. node	533 Mar 09 j 21:27	27°♊03'24		inferior conj	534 Feb 03 j 20:22	17°♊10'15	3°48'31
	533 Mar 15 j 15:14	0°♋		minimum elong	534 Feb 03 j 20:14	17°♊10'36	3°48'31
morning max el	533 Mar 20 j 18:29	4°♋22'45	27°35'49	min. Earth dist.	534 Feb 06 j 14:29	14°♊16'55	0.62640 AU
	533 Apr 08 j 17:45	0°♐		morning rise	534 Feb 10 j 01:13	11°♊11'27	
morning set	533 Apr 21 j 19:31	24°♐26'50		direct	534 Feb 17 j 00:54	8°♊33'19	
	533 Apr 24 j 11:01	0°♋		desc. node	534 Feb 24 j 18:29	11°♊15'22	
asc. node	533 Apr 27 j 14:05	6°♋44'49		morning max el	534 Mar 03 j 00:06	16°♊26'56	27°47'21
max. Earth dist.	533 Apr 28 j 02:11	7°♋50'50	1.32345 AU		534 Mar 14 j 04:55	0°♋	
					534 Apr 01 j 09:26	0°♐	
superior conj	533 Apr 29 j 00:53	9°♋55'04	0°15'19	morning set	534 Apr 05 j 21:08	8°♐48'01	
minimum elong	533 Apr 29 j 00:12	9°♋51'16	0°15'10	max. Earth dist.	534 Apr 11 j 10:20	20°♐22'20	1.32758 AU
behind sun begin	533 Apr 28 j 22:44	9°♋43'18					
behind sun end	533 Apr 29 j 01:39	9°♋59'14		superior conj	534 Apr 13 j 10:09	24°♐39'48	-0°11'00
evening rise	533 May 05 j 22:17	24°♋52'43		minimum elong	534 Apr 13 j 10:41	24°♐42'38	0°10'53

behind sun begin	534 Apr 13 j 06:52	24°♄22'00		superior conj	535 Mar 28 j 15:26	9°♄07'43	-0°38'08
behind sun end	534 Apr 13 j 14:30	25°♄03'17		minimum elong	535 Mar 28 j 17:17	9°♄17'35	0°37'46
asc. node	534 Apr 14 j 11:08	26°♄55'11		asc. node	535 Apr 01 j 08:11	17°♄01'00	
	534 Apr 15 j 21:10	0°♄		evening rise	535 Apr 04 j 21:17	24°♄32'45	
evening rise	534 Apr 20 j 10:06	9°♄46'08			535 Apr 07 j 12:39	0°♄	
	534 Apr 30 j 21:32	0°♄		evening max el	535 Apr 26 j 05:30	28°♄55'16	22°16'58
evening max el	534 May 14 j 13:04	18°♄20'41	23°52'18		535 Apr 27 j 09:27	0°♄	
desc. node	534 May 23 j 17:45	24°♄27'32		retrograde	535 May 09 j 02:55	5°♄16'09	
retrograde	534 May 28 j 07:27	25°♄15'03		desc. node	535 May 10 j 14:45	5°♄11'10	
evening set	534 Jun 01 j 12:08	24°♄36'11		evening set	535 May 12 j 00:04	4°♄57'51	
min. Earth dist.	534 Jun 08 j 00:01	21°♄30'41	0.56250 AU	min. Earth dist.	535 May 20 j 12:17	1°♄18'45	0.55185 AU
inferior conj	534 Jun 10 j 08:22	20°♄04'36	-4°14'50	inferior conj	535 May 21 j 09:05	0°♄49'25	-2°56'14
minimum elong	534 Jun 10 j 02:19	20°♄13'55	4°13'46	minimum elong	535 May 21 j 01:54	0°♄59'34	2°54'05
morning rise	534 Jun 18 j 19:16	16°♄05'49			535 May 22 j 20:24	30°♄	
direct	534 Jun 21 j 11:18	15°♄47'32		morning rise	535 May 30 j 05:28	26°♄55'51	
morning max el	534 Jul 01 j 11:13	20°♄25'22	19°54'55	direct	535 Jun 02 j 03:09	26°♄36'47	
	534 Jul 09 j 02:10	0°♄			535 Jun 11 j 07:27	0°♄	
asc. node	534 Jul 11 j 10:23	3°♄50'40		morning max el	535 Jun 13 j 18:24	2°♄02'47	21°15'51
morning set	534 Jul 19 j 10:02	19°♄01'53		asc. node	535 Jun 28 j 07:27	22°♄58'02	
	534 Jul 24 j 19:25	0°♄			535 Jul 01 j 21:38	0°♄	
				morning set	535 Jul 03 j 18:01	3°♄46'56	
superior conj	534 Jul 27 j 06:07	4°♄55'21	1°46'28				
minimum elong	534 Jul 27 j 05:41	4°♄53'12	1°46'27	superior conj	535 Jul 11 j 03:37	19°♄14'02	1°40'47
max. Earth dist.	534 Aug 01 j 19:55	15°♄46'07	1.37020 AU	minimum elong	535 Jul 11 j 01:55	19°♄05'14	1°40'40
evening rise	534 Aug 05 j 16:32	22°♄54'21		max. Earth dist.	535 Jul 15 j 06:44	27°♄38'26	1.35318 AU
	534 Aug 09 j 16:57	0°♄			535 Jul 16 j 11:18	0°♄	
desc. node	534 Aug 19 j 17:09	16°♄16'08		evening rise	535 Jul 19 j 14:11	6°♄01'56	
	534 Aug 29 j 06:00	0°♄			535 Aug 02 j 10:32	0°♄	
evening max el	534 Sep 10 j 12:24	14°♄31'16	25°38'21	desc. node	535 Aug 06 j 14:08	6°♄19'36	
retrograde	534 Sep 22 j 17:50	21°♄31'48		evening max el	535 Aug 24 j 00:27	28°♄07'56	26°37'40
evening set	534 Sep 28 j 18:40	18°♄59'43			535 Aug 26 j 01:19	0°♄	
min. Earth dist.	534 Oct 03 j 03:11	14°♄12'06	0.66898 AU	retrograde	535 Sep 05 j 22:44	5°♄21'42	
inferior conj	534 Oct 04 j 07:45	12°♄40'41	-1°03'18	evening set	535 Sep 12 j 13:08	2°♄39'08	
minimum elong	534 Oct 04 j 09:22	12°♄35'31	1°02'36		535 Sep 15 j 06:17	30°♄	
asc. node	534 Oct 07 j 09:35	8°♄59'20		min. Earth dist.	535 Sep 16 j 14:14	28°♄28'34	0.65993 AU
morning rise	534 Oct 10 j 00:16	6°♄44'43		inferior conj	535 Sep 18 j 06:39	26°♄27'41	-2°00'02
direct	534 Oct 13 j 07:44	5°♄41'24		minimum elong	535 Sep 18 j 09:45	26°♄18'26	1°58'49
morning max el	534 Oct 20 j 10:04	9°♄41'44	19°17'00	morning rise	535 Sep 24 j 06:50	20°♄43'07	
	534 Nov 04 j 05:18	0°♄		asc. node	535 Sep 24 j 06:38	20°♄43'24	
morning set	534 Nov 12 j 21:32	13°♄25'47		direct	535 Sep 27 j 05:31	19°♄54'26	
desc. node	534 Nov 15 j 16:25	17°♄46'19		morning max el	535 Oct 03 j 21:21	23°♄34'20	18°31'51
	534 Nov 23 j 12:01	0°♄			535 Oct 09 j 02:43	0°♄	
max. Earth dist.	534 Nov 26 j 16:47	5°♄02'18	1.44680 AU	morning set	535 Oct 23 j 23:53	23°♄12'17	
					535 Oct 28 j 05:46	0°♄	
superior conj	534 Nov 29 j 15:38	9°♄42'52	-1°24'00	desc. node	535 Nov 02 j 13:28	8°♄27'12	
minimum elong	534 Nov 29 j 07:09	9°♄09'12	1°23'08				
	534 Dec 12 j 04:39	0°♄		superior conj	535 Nov 08 j 16:42	18°♄07'32	-0°39'45
evening rise	534 Dec 14 j 05:02	3°♄19'39		minimum elong	535 Nov 08 j 11:32	17°♄47'13	0°39'05
	534 Dec 31 j 04:21	0°♄		max. Earth dist.	535 Nov 09 j 11:27	19°♄21'15	1.45070 AU
evening max el	535 Jan 02 j 18:43	2°♄59'29	18°28'58		535 Nov 16 j 06:02	0°♄	
asc. node	535 Jan 03 j 08:52	3°♄34'18		evening rise	535 Nov 24 j 18:29	13°♄26'35	
retrograde	535 Jan 09 j 08:02	6°♄35'43		greatest brilliancy	535 Dec 03 j 22:44	27°♄57'20	-0.8m
evening set	535 Jan 12 j 09:04	5°♄44'31			535 Dec 05 j 06:11	0°♄	
inferior conj	535 Jan 18 j 06:22	0°♄12'53	3°39'47	evening max el	535 Dec 17 j 04:38	16°♄26'16	19°05'26
minimum elong	535 Jan 18 j 04:40	0°♄17'52	3°39'36	asc. node	535 Dec 21 j 05:54	19°♄38'09	
	535 Jan 18 j 10:47	30°♄		retrograde	535 Dec 24 j 03:10	20°♄23'34	
min. Earth dist.	535 Jan 20 j 09:10	27°♄44'57	0.64411 AU	evening set	535 Dec 27 j 10:22	19°♄20'17	
morning rise	535 Jan 23 j 23:47	24°♄06'52		inferior conj	536 Jan 02 j 01:30	13°♄31'59	3°17'04
direct	535 Jan 30 j 20:33	21°♄15'42		minimum elong	536 Jan 01 j 22:58	13°♄40'01	3°16'32
desc. node	535 Feb 11 j 15:32	27°♄25'03		min. Earth dist.	536 Jan 03 j 13:05	11°♄39'39	0.65804 AU
morning max el	535 Feb 13 j 08:57	29°♄04'28	27°23'12	morning rise	536 Jan 07 j 11:17	7°♄21'27	
	535 Feb 14 j 06:43	0°♄		direct	536 Jan 13 j 22:32	4°♄31'40	
	535 Mar 08 j 01:20	0°♄		morning max el	536 Jan 26 j 18:40	12°♄05'00	26°29'11
morning set	535 Mar 20 j 14:35	22°♄40'28		desc. node	536 Jan 29 j 12:37	15°♄00'04	
	535 Mar 24 j 06:21	0°♄			536 Feb 10 j 04:05	0°♄	
max. Earth dist.	535 Mar 25 j 10:37	2°♄25'20	1.33590 AU		536 Feb 28 j 15:49	0°♄	
				morning set	536 Mar 02 j 20:15	5°♄53'29	

max. Earth dist.	536 Mar 07 j 00:02	13° H 55'00	1.34874 AU		537 Feb 02 j 16:11	0° \approx	
				morning set	537 Feb 13 j 09:19	18° \approx 13'14	
superior conj	536 Mar 11 j 14:28	23° H 12'06	-1°04'53	max. Earth dist.	537 Feb 17 j 02:07	25° \approx 00'27	1.36588 AU
minimum elong	536 Mar 11 j 17:34	23° H 28'05	1°04'21		537 Feb 19 j 17:21	0° H	
	536 Mar 14 j 21:06	0° Y					
asc. node	536 Mar 18 j 05:13	6° Y 58'07		superior conj	537 Feb 23 j 04:25	6° H 44'56	-1°29'29
evening rise	536 Mar 19 j 05:59	9° Y 06'28		minimum elong	537 Feb 23 j 08:20	7° H 04'17	1°28'58
	536 Mar 30 j 11:37	0° Z		evening rise	537 Mar 03 j 10:03	23° H 20'39	
evening max el	536 Apr 07 j 06:14	9° Z 51'41	20°50'13	asc. node	537 Mar 05 j 02:14	26° H 41'58	
retrograde	536 Apr 18 j 16:02	15° Z 23'17			537 Mar 06 j 18:29	0° Y	
evening set	536 Apr 20 j 20:29	15° Z 11'54		evening max el	537 Mar 20 j 18:23	21° Y 25'54	19°40'00
desc. node	536 Apr 26 j 11:46	13° Z 12'50		retrograde	537 Mar 30 j 11:02	26° Y 05'34	
inferior conj	536 Apr 30 j 03:06	11° Z 13'58	-1°02'51	evening set	537 Apr 01 j 13:21	25° Y 53'26	
minimum elong	536 Apr 30 j 00:07	11° Z 18'12	1°01'46	inferior conj	537 Apr 10 j 05:08	21° Y 50'07	0°53'29
min. Earth dist.	536 May 01 j 01:02	10° Z 42'43	0.55019 AU	minimum elong	537 Apr 10 j 07:22	21° Y 46'34	0°52'43
morning rise	536 May 09 j 03:18	7° Z 06'59		min. Earth dist.	537 Apr 12 j 15:27	20° Y 18'33	0.55802 AU
direct	536 May 12 j 13:14	6° Z 41'51		desc. node	537 Apr 13 j 08:48	19° Y 52'15	
morning max el	536 May 25 j 15:30	12° Z 59'39	22°52'03	morning rise	537 Apr 18 j 22:50	17° Y 12'56	
	536 Jun 07 j 11:08	0° II		direct	537 Apr 23 j 06:52	16° Y 30'55	
asc. node	536 Jun 14 j 04:29	12° II 30'04		morning max el	537 May 07 j 06:57	23° Y 32'30	24°33'13
morning set	536 Jun 17 j 04:50	18° II 41'28			537 May 13 j 02:34	0° Z	
	536 Jun 22 j 12:15	0° E			537 May 30 j 22:32	0° II	
				asc. node	537 Jun 01 j 01:32	2° II 19'58	
superior conj	536 Jun 24 j 08:02	3° E 53'55	1°29'12	morning set	537 Jun 01 j 16:46	3° II 39'56	
minimum elong	536 Jun 24 j 05:41	3° E 41'24	1°28'56				
max. Earth dist.	536 Jun 27 j 02:47	9° E 46'00	1.33978 AU	superior conj	537 Jun 08 j 16:54	18° II 46'59	1°12'53
evening rise	536 Jul 02 j 01:50	19° E 51'09		minimum elong	537 Jun 08 j 14:27	18° II 33'43	1°12'31
	536 Jul 07 j 09:54	0° O		max. Earth dist.	537 Jun 10 j 07:21	22° II 14'56	1.33034 AU
desc. node	536 Jul 23 j 11:08	25° O 55'25			537 Jun 13 j 22:57	0° E	
	536 Jul 26 j 11:07	0° M		evening rise	537 Jun 15 j 23:35	4° E 10'36	
evening max el	536 Aug 05 j 12:13	11° M 32'41	27°15'21		537 Jun 30 j 02:55	0° O	
retrograde	536 Aug 18 j 22:04	18° M 51'38		desc. node	537 Jul 10 j 08:07	14° O 51'53	
evening set	536 Aug 25 j 22:51	16° M 06'43		evening max el	537 Jul 18 j 22:07	24° O 33'50	27°24'59
min. Earth dist.	536 Aug 29 j 17:19	12° M 32'41	0.64726 AU		537 Jul 26 j 01:50	0° M	
inferior conj	536 Aug 31 j 22:37	10° M 06'36	-2°55'14	retrograde	537 Aug 01 j 15:33	1° M 52'41	
minimum elong	536 Sep 01 j 02:58	9° M 54'39	2°53'47		537 Aug 07 j 18:49	30° R O	
morning rise	536 Sep 07 j 07:55	4° M 36'44		evening set	537 Aug 08 j 20:35	29° O 17'17	
direct	536 Sep 10 j 00:10	3° M 59'09		min. Earth dist.	537 Aug 12 j 10:46	26° O 14'45	0.63102 AU
asc. node	536 Sep 10 j 03:41	3° M 59'16		inferior conj	537 Aug 15 j 04:59	23° O 31'42	-3°45'36
morning max el	536 Sep 16 j 12:19	7° M 27'38	18°03'27	minimum elong	537 Aug 15 j 09:55	23° O 19'30	3°44'20
	536 Oct 01 j 16:19	0° A		morning rise	537 Aug 22 j 00:30	18° O 19'42	
morning set	536 Oct 04 j 06:51	4° A 22'31		direct	537 Aug 24 j 12:49	17° O 50'00	
				asc. node	537 Aug 28 j 00:45	18° O 48'38	
superior conj	536 Oct 18 j 00:42	26° A 57'39	0°09'21	morning max el	537 Aug 31 j 04:12	21° O 15'31	17°52'41
minimum elong	536 Oct 18 j 01:49	27° A 02'09	0°09'11		537 Sep 06 j 19:17	0° M	
behind sun begin	536 Oct 17 j 17:01	26° A 26'48		morning set	537 Sep 16 j 14:01	16° M 42'16	
behind sun end	536 Oct 18 j 10:38	27° A 37'28			537 Sep 24 j 05:15	0° A	
desc. node	536 Oct 19 j 10:28	29° A 12'38					
	536 Oct 19 j 22:21	0° M		superior conj	537 Sep 28 j 08:26	6° A 59'20	0°51'39
max. Earth dist.	536 Oct 22 j 06:13	3° M 41'39	1.44716 AU	minimum elong	537 Sep 28 j 13:01	7° A 18'31	0°51'04
evening rise	536 Nov 03 j 10:53	22° M 43'39		max. Earth dist.	537 Oct 04 j 21:57	17° A 45'09	1.43676 AU
	536 Nov 08 j 04:14	0° X		desc. node	537 Oct 06 j 07:28	19° A 59'39	
greatest brilliancy	536 Nov 17 j 05:20	13° X 42'25	-0.6m		537 Oct 12 j 15:52	0° M	
evening max el	536 Nov 29 j 10:08	29° X 54'21	19°57'57	evening rise	537 Oct 13 j 18:03	1° M 41'32	
	536 Nov 29 j 12:20	0° Z			537 Nov 01 j 18:54	0° X	
retrograde	536 Dec 07 j 00:40	4° Z 21'28		evening max el	537 Nov 12 j 10:05	13° X 22'53	21°03'53
asc. node	536 Dec 07 j 02:55	4° Z 21'25		retrograde	537 Nov 20 j 22:15	18° X 25'47	
evening set	536 Dec 10 j 15:43	3° Z 04'35		asc. node	537 Nov 23 j 23:59	17° X 32'40	
	536 Dec 13 j 19:34	30° R X		evening set	537 Nov 24 j 23:03	16° X 53'36	
inferior conj	536 Dec 16 j 02:51	27° X 02'33	2°43'58	inferior conj	537 Nov 30 j 08:01	10° X 41'10	2°02'55
minimum elong	536 Dec 16 j 00:06	27° X 11'42	2°43'09	minimum elong	537 Nov 30 j 05:36	10° X 49'29	2°02'03
min. Earth dist.	536 Dec 17 j 00:43	25° X 49'35	0.66797 AU	min. Earth dist.	537 Nov 30 j 17:47	10° X 07'36	0.67419 AU
morning rise	536 Dec 21 j 08:18	20° X 49'34		morning rise	537 Dec 05 j 11:57	4° X 27'45	
direct	536 Dec 27 j 06:09	18° X 12'04		direct	537 Dec 10 j 18:53	2° X 09'27	
morning max el	537 Jan 08 j 03:36	25° X 16'54	25°14'03	morning max el	537 Dec 21 j 12:07	8° X 33'02	23°47'44
	537 Jan 12 j 10:57	0° Z		desc. node	538 Jan 02 j 06:42	22° X 52'57	
desc. node	537 Jan 15 j 09:40	3° Z 35'19			538 Jan 07 j 08:08	0° Z	

morning set	538 Jan 25 j 23:33	29°  21'54		desc. node	538 Dec 20 j 03:45	12°  41'16	
	538 Jan 26 j 08:27	0° 			538 Dec 31 j 16:04	0° 	
max. Earth dist.	538 Jan 29 j 21:12	6°  09'01	1.38628 AU	morning set	539 Jan 06 j 09:21	9°  06'38	
				max. Earth dist.	539 Jan 11 j 17:43	17°  57'56	1.40763 AU
superior conj	538 Feb 06 j 05:32	19°  35'32	-1°49'27		539 Jan 18 j 16:21	0° 	
minimum elong	538 Feb 06 j 09:13	19°  52'58	1°49'09				
	538 Feb 11 j 15:27	0° 		superior conj	539 Jan 19 j 13:06	1°  32'37	-2°01'18
evening rise	538 Feb 15 j 06:50	7°  07'11		minimum elong	539 Jan 19 j 14:46	1°  40'06	2°01'16
asc. node	538 Feb 19 j 23:17	16°  06'28		evening rise	539 Jan 29 j 17:13	20°  18'47	
	538 Feb 28 j 12:27	0° 			539 Feb 03 j 22:44	0° 	
evening max el	538 Mar 03 j 17:03	3°  07'25	18°49'17	asc. node	539 Feb 06 j 20:20	5°  05'08	
retrograde	538 Mar 11 j 21:46	7°  03'50		evening max el	539 Feb 14 j 23:26	16°  19'01	18°18'34
evening set	538 Mar 14 j 04:49	7°  18'24		retrograde	539 Feb 22 j 03:23	19°  15'39	
inferior conj	538 Mar 22 j 01:26	2°  09'00	2°24'17	evening set	539 Feb 24 j 15:57	19°  13'13	
minimum elong	538 Mar 22 j 05:41	2°  05'13	2°23'07	inferior conj	539 Mar 03 j 18:50	14°  11'02	3°20'09
min. Earth dist.	538 Mar 25 j 08:08	0°  36'21	0.57366 AU	minimum elong	539 Mar 03 j 22:02	14°  10'10	3°19'36
	538 Mar 26 j 05:31	30°  08'08		min. Earth dist.	539 Mar 07 j 04:56	11°  53'25	0.59381 AU
morning rise	538 Mar 30 j 03:30	27°  08'47		morning rise	539 Mar 11 j 01:48	9°  11'19	
desc. node	538 Mar 31 j 05:51	27°  02'52		direct	539 Mar 17 j 10:55	7°  21'29	
direct	538 Apr 04 j 14:26	26°  03'22		desc. node	539 Mar 18 j 02:54	7°  22'39	
	538 Apr 14 j 00:13	0° 		morning max el	539 Mar 31 j 18:27	15°  05'39	27°12'15
morning max el	538 Apr 18 j 22:22	4°  06'00	26°04'52		539 Apr 12 j 19:46	0° 	
	538 May 07 j 14:48	0° 			539 Apr 29 j 21:48	0° 	
morning set	538 May 17 j 04:09	18°  35'54		morning set	539 May 01 j 13:18	3°  23'36	
asc. node	538 May 18 j 22:34	22°  21'20		asc. node	539 May 05 j 19:37	12°  29'31	
	538 May 22 j 11:00	0° 					
superior conj	538 May 24 j 04:06	3°  02'24	0°52'48	superior conj	539 May 08 j 15:52	18°  43'00	0°29'43
minimum elong	538 May 24 j 02:02	3°  34'05	0°52'25	minimum elong	539 May 08 j 14:35	18°  35'56	0°29'26
max. Earth dist.	538 May 24 j 17:42	5°  00'00	1.32477 AU	max. Earth dist.	539 May 08 j 06:22	17°  50'48	1.32291 AU
evening rise	538 May 31 j 04:13	18°  02'40			539 May 13 j 19:55	0° 	
	538 Jun 05 j 18:31	0° 		evening rise	539 May 15 j 13:15	3°  02'59	
	538 Jun 24 j 18:54	0° 			539 May 29 j 15:57	0° 	
desc. node	538 Jun 27 j 05:09	2°  02'10		evening max el	539 Jun 13 j 03:06	18°  39'16	26°07'12
evening max el	538 Jul 01 j 03:50	6°  05'59	27°02'22	desc. node	539 Jun 14 j 02:11	19°  32'47	
retrograde	538 Jul 15 j 02:01	14°  01'50		retrograde	539 Jun 27 j 03:42	25°  51'17	
evening set	538 Jul 22 j 02:07	12°  03'09		evening set	539 Jul 03 j 10:45	24°  14'41	
min. Earth dist.	538 Jul 25 j 18:02	9°  01'04	0.61180 AU	min. Earth dist.	539 Jul 07 j 15:53	21°  36'48	0.59122 AU
inferior conj	538 Jul 28 j 22:29	6°  03'50	-4°25'54	inferior conj	539 Jul 10 j 23:32	19°  06'36	-4°47'42
minimum elong	538 Jul 29 j 02:39	6°  02'55	4°25'14	minimum elong	539 Jul 11 j 00:49	19°  04'10	4°47'39
morning rise	538 Aug 05 j 04:54	1°  04'34		morning rise	539 Jul 18 j 17:04	14°  37'45	
direct	538 Aug 07 j 15:49	1°  01'10		direct	539 Jul 21 j 05:00	14°  16'29	
morning max el	538 Aug 14 j 17:56	4°  05'19	18°00'41	morning max el	539 Jul 29 j 02:26	18°  03'12	18°28'35
asc. node	538 Aug 14 j 21:48	4°  05'48		asc. node	539 Aug 01 j 18:51	22°  17'13	
morning set	538 Aug 30 j 15:21	29°  05'28			539 Aug 06 j 19:09	0° 	
	538 Aug 30 j 16:33	0° 		morning set	539 Aug 14 j 05:34	13°  04'15	
					539 Aug 22 j 18:18	0° 	
superior conj	538 Sep 09 j 19:28	18°  02'42	1°21'46	superior conj	539 Aug 23 j 05:36	0°  52'31	1°39'27
minimum elong	538 Sep 09 j 23:56	18°  04'22	1°21'20	minimum elong	539 Aug 23 j 08:14	1°  04'44	1°39'16
	538 Sep 16 j 14:19	0° 		max. Earth dist.	539 Aug 30 j 14:54	14°  08'30	1.40153 AU
max. Earth dist.	538 Sep 17 j 08:54	1°  01'27	1.42087 AU	evening rise	539 Sep 03 j 23:15	21°  03'10	
evening rise	538 Sep 23 j 09:56	11°  06'54			539 Sep 09 j 03:59	0° 	
desc. node	538 Sep 23 j 04:30	10°  04'51		desc. node	539 Sep 10 j 01:32	1°  02'53	
	538 Oct 05 j 17:56	0° 			539 Sep 29 j 19:56	0° 	
evening max el	538 Oct 26 j 04:33	26°  05'14	22°19'24	evening max el	539 Oct 08 j 18:44	10°  08'08	23°39'22
	538 Oct 29 j 15:47	0° 		retrograde	539 Oct 19 j 10:47	16°  43'40	
retrograde	538 Nov 04 j 18:04	2°  03'42		evening set	539 Oct 24 j 12:57	14°  36'42	
evening set	538 Nov 09 j 06:41	0° 		asc. node	539 Oct 28 j 18:05	9°  04'30	
	538 Nov 10 j 03:01	30°  08'08		inferior conj	539 Oct 29 j 22:05	8°  14'27	0°24'06
asc. node	538 Nov 10 j 21:02	29°  08'13		minimum elong	539 Oct 29 j 21:30	8°  16'24	0°23'51
inferior conj	538 Nov 14 j 15:02	24°  06'03	1°15'48	min. Earth dist.	539 Oct 29 j 10:23	8°  15'19	0.67650 AU
minimum elong	538 Nov 14 j 13:22	24°  03'14	1°15'08	morning rise	539 Nov 04 j 06:00	2°  06'59	
min. Earth dist.	538 Nov 14 j 13:50	24°  03'12	0.67700 AU	direct	539 Nov 08 j 07:55	0° 	
morning rise	538 Nov 19 j 19:54	18°  04'23		morning max el	539 Nov 16 j 16:21	5°  25'01	20°59'14
direct	538 Nov 24 j 11:49	16° 08'25			539 Dec 05 j 02:53	0°	
morning max el	538 Dec 03 j 23:12	21° 05'42	22°20'10	desc. node	539 Dec 07 j 00:48	2° 05'18	
	538 Dec 10 j 21:54	0°		morning set	539 Dec 16 j 16:07	17° 03'50	

	539 Dec 24 j 10:41	0°♁		direct	540 Oct 22 j 05:53	14°♁50'32	
max. Earth dist.	539 Dec 24 j 21:36	0°♁44'26	1.42688 AU	morning max el	540 Oct 29 j 17:19	19°♁06'36	19°50'09
					540 Nov 07 j 09:19	0°♁	
superior conj	539 Dec 31 j 21:41	12°♁22'59	-2°00'34	desc. node	540 Nov 22 j 21:51	23°♁16'57	
minimum elong	539 Dec 31 j 19:05	12°♁11'58	2°00'30	morning set	540 Nov 24 j 12:32	25°♁46'13	
	540 Jan 10 j 23:55	0°♁			540 Nov 27 j 06:02	0°♁	
evening rise	540 Jan 12 j 13:20	2°♁47'13		max. Earth dist.	540 Dec 06 j 09:01	14°♁20'11	1.44136 AU
asc. node	540 Jan 24 j 17:23	23°♁29'34					
evening max el	540 Jan 29 j 10:19	29°♁21'32	18°07'36	superior conj	540 Dec 11 j 03:36	21°♁59'59	-1°42'45
	540 Jan 30 j 02:33	0°♁		minimum elong	540 Dec 10 j 20:13	21°♁30'06	1°42'10
retrograde	540 Feb 05 j 01:08	2°♁46'17			540 Dec 16 j 00:59	0°♁	
evening set	540 Feb 07 j 18:27	2°♁11'34		evening rise	540 Dec 24 j 14:56	14°♁24'57	
	540 Feb 11 j 05:16	30°♁			541 Jan 02 j 20:42	0°♁	
inferior conj	540 Feb 14 j 07:06	27°♁10'07	3°45'09	asc. node	541 Jan 10 j 14:25	11°♁09'45	
minimum elong	540 Feb 14 j 08:09	27°♁07'31	3°45'07	evening max el	541 Jan 11 j 22:49	12°♁37'47	18°15'49
min. Earth dist.	540 Feb 17 j 08:45	24°♁10'21	0.61490 AU	retrograde	541 Jan 18 j 10:22	16°♁06'51	
morning rise	540 Feb 20 j 20:25	21°♁17'43		evening set	541 Jan 21 j 08:19	15°♁22'03	
direct	540 Feb 27 j 17:39	18°♁54'16		inferior conj	541 Jan 27 j 10:19	10°♁00'46	3°46'50
desc. node	540 Mar 03 j 23:57	20°♁09'22		minimum elong	541 Jan 27 j 09:26	10°♁03'13	3°46'47
morning max el	540 Mar 12 j 20:59	26°♁45'50	27°45'26	min. Earth dist.	541 Jan 29 j 21:57	7°♁16'35	0.63432 AU
	540 Mar 15 j 22:27	0°♁		morning rise	541 Feb 02 j 09:47	3°♁58'12	
	540 Apr 05 j 09:25	0°♁		direct	541 Feb 09 j 09:00	1°♁12'55	
morning set	540 Apr 14 j 18:20	17°♁56'40		desc. node	541 Feb 18 j 21:01	5°♁15'30	
	540 Apr 20 j 11:11	0°♁		morning max el	541 Feb 23 j 04:31	9°♁05'51	27°41'20
max. Earth dist.	540 Apr 20 j 17:31	0°♁34'16	1.32471 AU		541 Mar 11 j 10:51	0°♁	
asc. node	540 Apr 21 j 16:41	2°♁40'16			541 Mar 28 j 15:19	0°♁	
				morning set	541 Mar 29 j 16:49	2°♁06'30	
superior conj	540 Apr 22 j 02:32	3°♁33'59	0°04'22	max. Earth dist.	541 Apr 03 j 22:54	12°♁55'11	1.33053 AU
minimum elong	540 Apr 22 j 02:20	3°♁32'51	0°04'19				
behind sun begin	540 Apr 21 j 21:24	3°♁05'59		superior conj	541 Apr 06 j 10:17	18°♁11'41	-0°22'28
behind sun end	540 Apr 22 j 07:15	3°♁59'45		minimum elong	541 Apr 06 j 11:22	18°♁17'31	0°22'14
evening rise	540 Apr 29 j 00:36	18°♁34'18		asc. node	541 Apr 08 j 13:43	22°♁48'50	
	540 May 04 j 15:37	0°♁			541 Apr 11 j 21:45	0°♁	
evening max el	540 May 24 j 19:48	29°♁36'56	24°46'00	evening rise	541 Apr 13 j 12:20	3°♁25'06	
	540 May 25 j 05:32	0°♁			541 Apr 28 j 01:46	0°♁	
desc. node	540 May 30 j 23:11	4°♁22'34		evening max el	541 May 06 j 10:01	10°♁10'03	23°11'28
retrograde	540 Jun 07 j 18:45	6°♁41'21		desc. node	541 May 17 j 20:13	16°♁43'51	
evening set	540 Jun 12 j 20:12	5°♁43'16		retrograde	541 May 19 j 21:34	16°♁53'29	
min. Earth dist.	540 Jun 18 j 07:07	2°♁52'13	0.57181 AU	evening set	541 May 23 j 11:42	16°♁25'11	
inferior conj	540 Jun 21 j 05:06	0°♁57'46	-4°38'55	min. Earth dist.	541 May 30 j 19:41	13°♁06'59	0.55692 AU
minimum elong	540 Jun 21 j 01:37	1°♁03'30	4°38'35	inferior conj	541 Jun 01 j 14:49	12°♁03'51	-3°47'05
	540 Jun 22 j 16:44	30°♁		minimum elong	541 Jun 01 j 07:36	12°♁14'27	3°45'25
morning rise	540 Jun 29 j 09:46	26°♁50'15		morning rise	541 Jun 10 j 06:09	8°♁09'39	
direct	540 Jul 02 j 00:08	26°♁31'09		direct	541 Jun 12 j 23:56	7°♁51'35	
	540 Jul 10 j 06:13	0°♁		morning max el	541 Jun 23 j 16:35	12°♁48'26	20°27'08
morning max el	540 Jul 11 j 02:47	0°♁45'47	19°17'21	asc. node	541 Jul 05 j 12:58	29°♁15'38	
asc. node	540 Jul 18 j 15:55	10°♁26'52			541 Jul 05 j 22:47	0°♁	
morning set	540 Jul 28 j 04:51	28°♁01'42		morning set	541 Jul 12 j 10:18	12°♁38'04	
	540 Jul 29 j 04:35	0°♁					
				superior conj	541 Jul 20 j 01:21	28°♁18'35	1°44'52
superior conj	540 Aug 05 j 09:14	14°♁16'36	1°46'27	minimum elong	541 Jul 20 j 00:19	28°♁13'18	1°44'49
minimum elong	540 Aug 05 j 09:49	14°♁19'25	1°46'25		541 Jul 20 j 21:25	0°♁	
max. Earth dist.	540 Aug 11 j 18:24	26°♁20'17	1.38128 AU	max. Earth dist.	541 Jul 25 j 00:32	8°♁09'58	1.36253 AU
	540 Aug 13 j 18:58	0°♁		evening rise	541 Jul 29 j 00:37	15°♁44'13	
evening rise	540 Aug 15 j 13:12	3°♁07'11			541 Aug 06 j 03:33	0°♁	
desc. node	540 Aug 26 j 22:34	21°♁55'54		desc. node	541 Aug 13 j 19:34	12°♁10'57	
	540 Sep 01 j 06:58	0°♁			541 Aug 26 j 19:29	0°♁	
evening max el	540 Sep 20 j 06:40	24°♁02'17	24°57'13	evening max el	541 Sep 02 j 18:13	7°♁39'31	26°05'37
	540 Sep 28 j 07:10	0°♁		retrograde	541 Sep 15 j 07:37	14°♁47'35	
retrograde	540 Oct 01 j 23:31	0°♁50'00		evening set	541 Sep 21 j 14:29	12°♁09'57	
	540 Oct 05 j 09:06	30°♁		min. Earth dist.	541 Sep 25 j 19:41	7°♁38'07	0.66559 AU
evening set	540 Oct 07 j 16:11	28°♁25'59		inferior conj	541 Sep 27 j 05:15	5°♁53'27	-1°27'23
min. Earth dist.	540 Oct 12 j 05:07	23°♁18'03	0.67274 AU	minimum elong	541 Sep 27 j 07:30	5°♁46'27	1°26'28
inferior conj	540 Oct 13 j 03:26	22°♁04'35	-0°30'48	asc. node	541 Oct 01 j 12:10	1°♁09'11	
minimum elong	540 Oct 13 j 04:12	22°♁02'03	0°30'28	morning rise	541 Oct 03 j 00:52	0°♁02'08	
asc. node	540 Oct 14 j 15:07	20°♁09'04			541 Oct 03 j 02:19	30°♁	
morning rise	540 Oct 18 j 16:20	16°♁03'49		direct	541 Oct 06 j 04:12	29°♁05'41	

	541 Oct 09 j 08:43	0°♄		morning set	542 Oct 15 j 14:04	15°♄07'32	
morning max el	541 Oct 13 j 01:23	2°♄56'21	18°55'45		542 Oct 24 j 18:37	0°♄	
	541 Oct 31 j 22:55	0°♄		desc. node	542 Oct 27 j 15:53	4°♄36'09	
morning set	541 Nov 03 j 23:20	4°♄44'49					
desc. node	541 Nov 09 j 18:53	13°♄53'17		superior conj	542 Oct 30 j 12:11	9°♄06'40	-0°18'44
max. Earth dist.	541 Nov 19 j 01:22	28°♄26'42	1.44933 AU	minimum elong	542 Oct 30 j 09:45	8°♄57'01	0°18'25
				max. Earth dist.	542 Nov 01 j 19:59	12°♄46'36	1.45008 AU
superior conj	541 Nov 20 j 10:52	0°♄38'36	-1°06'38		542 Nov 12 j 19:58	0°♄	
minimum elong	541 Nov 20 j 03:02	0°♄07'43	1°05'43	evening rise	542 Nov 15 j 21:42	4°♄48'04	
	541 Nov 20 j 01:04	0°♄		greatest brilliancy	542 Nov 27 j 08:01	22°♄33'37	-0.7m
evening rise	541 Dec 05 j 18:05	25°♄05'14			542 Dec 02 j 07:50	0°♄	
	541 Dec 08 j 18:41	0°♄		evening max el	542 Dec 09 j 18:37	9°♄29'52	19°26'01
evening max el	541 Dec 26 j 10:20	26°♄02'10	18°42'24	asc. node	542 Dec 15 j 08:30	13°♄24'19	
asc. node	541 Dec 28 j 11:27	27°♄53'09		retrograde	542 Dec 16 j 23:14	13°♄38'47	
retrograde	542 Jan 02 j 02:52	29°♄46'34		evening set	542 Dec 20 j 09:31	12°♄30'04	
evening set	542 Jan 05 j 06:15	28°♄50'35		inferior conj	542 Dec 25 j 22:44	6°♄35'50	3°04'06
inferior conj	542 Jan 11 j 00:38	23°♄11'36	3°31'38	minimum elong	542 Dec 25 j 20:02	6°♄44'36	3°03'26
minimum elong	542 Jan 10 j 22:30	23°♄18'06	3°31'17	min. Earth dist.	542 Dec 27 j 04:23	4°♄59'48	0.66278 AU
min. Earth dist.	542 Jan 12 j 20:55	20°♄57'41	0.65049 AU	morning rise	542 Dec 31 j 06:18	0°♄24'02	
morning rise	542 Jan 16 j 14:20	17°♄03'06			542 Dec 31 j 17:24	30°♄	
direct	542 Jan 23 j 07:37	14°♄10'43		direct	543 Jan 06 j 12:18	27°♄38'02	
morning max el	542 Feb 05 j 14:08	21°♄55'24	27°03'23		543 Jan 13 j 01:37	0°♄	
desc. node	542 Feb 05 j 18:03	22°♄05'15		morning max el	543 Jan 18 j 23:24	5°♄01'05	25°59'05
	542 Feb 12 j 16:24	0°♄		desc. node	543 Jan 23 j 15:06	10°♄08'06	
	542 Mar 04 j 15:20	0°♄			543 Feb 07 j 04:32	0°♄	
morning set	542 Mar 13 j 05:46	15°♄43'55		morning set	543 Feb 24 j 04:59	28°♄35'43	
max. Earth dist.	542 Mar 17 j 18:43	24°♄43'28	1.34075 AU		543 Feb 24 j 23:09	0°♄	
	542 Mar 20 j 08:21	0°♄		max. Earth dist.	543 Feb 28 j 02:41	5°♄58'23	1.35555 AU
superior conj	542 Mar 21 j 13:11	2°♄30'23	-0°49'38	superior conj	543 Mar 05 j 08:44	16°♄22'11	-1°15'44
minimum elong	542 Mar 21 j 15:36	2°♄43'02	0°49'10	minimum elong	543 Mar 05 j 12:16	16°♄40'04	1°15'10
asc. node	542 Mar 26 j 10:45	12°♄51'24			543 Mar 11 j 23:59	0°♄	
evening rise	542 Mar 28 j 22:42	18°♄06'43		evening rise	543 Mar 13 j 05:40	2°♄32'19	
	542 Apr 03 j 21:20	0°♄		asc. node	543 Mar 13 j 07:47	2°♄43'10	
evening max el	542 Apr 18 j 05:16	20°♄50'36	21°38'28		543 Mar 29 j 12:13	0°♄	
retrograde	542 Apr 30 j 13:25	26°♄52'10		evening max el	543 Mar 31 j 10:52	2°♄02'13	20°18'04
evening set	542 May 03 j 01:01	26°♄38'15		retrograde	543 Apr 11 j 02:55	7°♄10'24	
desc. node	542 May 04 j 17:13	26°♄14'04		evening set	543 Apr 13 j 05:09	6°♄59'23	
inferior conj	542 May 12 j 10:57	22°♄36'17	-2°10'50	desc. node	543 Apr 21 j 14:15	3°♄25'19	
minimum elong	542 May 12 j 05:03	22°♄44'34	2°08'51	inferior conj	543 Apr 22 j 06:35	3°♄01'22	-0°11'46
min. Earth dist.	542 May 12 j 08:21	22°♄39'57	0.54990 AU	minimum elong	543 Apr 22 j 06:02	3°♄02'10	0°11'33
morning rise	542 May 21 j 09:55	18°♄39'06		transit middle	543 Apr 22 j 06:02	3°♄02'10	0°11'33
direct	542 May 24 j 11:28	18°♄18'29		transit begin	543 Apr 22 j 03:16	3°♄06'15	
morning max el	542 Jun 05 j 19:13	24°♄07'29	21°55'24	transit end	543 Apr 22 j 08:48	2°♄58'05	
	542 Jun 11 j 01:55	0°♄		min. Earth dist.	543 Apr 23 j 21:46	2°♄03'46	0.55245 AU
asc. node	542 Jun 22 j 10:00	18°♄33'52			543 Apr 27 j 18:23	30°♄	
morning set	542 Jun 26 j 19:40	27°♄27'05		morning rise	543 May 01 j 05:20	28°♄42'49	
	542 Jun 28 j 00:55	0°♄		direct	543 May 04 j 23:55	28°♄11'50	
					543 May 11 j 22:51	0°♄	
superior conj	542 Jul 04 j 02:08	12°♄47'00	1°36'30	morning max el	543 May 18 j 13:01	4°♄50'10	23°35'18
minimum elong	542 Jul 04 j 00:05	12°♄36'15	1°36'21		543 Jun 05 j 02:42	0°♄	
max. Earth dist.	542 Jul 07 j 14:46	20°♄04'52	1.34697 AU	asc. node	543 Jun 09 j 07:04	8°♄13'51	
evening rise	542 Jul 12 j 04:45	29°♄10'44		morning set	543 Jun 11 j 07:09	12°♄23'22	
	542 Jul 12 j 14:59	0°♄					
	542 Jul 30 j 06:52	0°♄		superior conj	543 Jun 18 j 08:42	27°♄32'50	1°22'47
desc. node	542 Jul 31 j 16:34	2°♄03'31		minimum elong	543 Jun 18 j 06:15	27°♄19'38	1°22'29
evening max el	542 Aug 16 j 06:15	21°♄12'09	26°56'47		543 Jun 19 j 12:10	0°♄	
retrograde	542 Aug 29 j 10:26	28°♄29'37		max. Earth dist.	543 Jun 20 j 14:43	2°♄21'21	1.33528 AU
evening set	542 Sep 05 j 05:36	25°♄44'55		evening rise	543 Jun 25 j 21:09	13°♄14'01	
min. Earth dist.	542 Sep 09 j 03:43	21°♄49'57	0.65495 AU		543 Jul 04 j 19:35	0°♄	
inferior conj	542 Sep 11 j 01:31	19°♄37'32	-2°23'49	desc. node	543 Jul 18 j 13:34	21°♄24'08	
minimum elong	542 Sep 11 j 05:11	19°♄26'54	2°22'28		543 Jul 25 j 10:40	0°♄	
morning rise	542 Sep 17 j 05:24	13°♄58'40		evening max el	543 Jul 29 j 17:46	4°♄29'24	27°23'23
asc. node	542 Sep 18 j 09:13	13°♄30'20		retrograde	543 Aug 12 j 07:19	11°♄48'17	
direct	542 Sep 20 j 00:57	13°♄15'14		evening set	543 Aug 19 j 10:42	9°♄06'13	
morning max el	542 Sep 26 j 14:32	16°♄49'38	18°17'34	min. Earth dist.	543 Aug 23 j 03:03	5°♄46'12	0.64071 AU
	542 Oct 06 j 06:11	0°♄		inferior conj	543 Aug 25 j 13:48	3°♄11'55	-3°17'28

minimum elong	543 Aug 25 j 18:31	2° \mathbb{M} 59'30	3°16'02	morning rise	544 Aug 14 j 15:12	11° Ω 24'58	
	543 Aug 28 j 20:04	30° $\mathbb{R}\Omega$		direct	544 Aug 17 j 02:46	10° Ω 57'37	
morning rise	543 Sep 01 j 03:18	27° Ω 48'55		asc. node	544 Aug 22 j 03:20	12° Ω 52'29	
direct	543 Sep 03 j 17:36	27° Ω 14'59		morning max el	544 Aug 23 j 21:32	14° Ω 24'06	17°53'50
asc. node	543 Sep 05 j 06:17	27° Ω 26'54			544 Sep 03 j 14:49	0° \mathbb{M}	
	543 Sep 09 j 12:53	0° \mathbb{M}		morning set	544 Sep 08 j 23:53	9° \mathbb{M} 34'35	
morning max el	543 Sep 10 j 06:13	0° \mathbb{M} 41'18	17°56'39				
morning set	543 Sep 27 j 08:15	26° \mathbb{M} 50'33		superior conj	544 Sep 20 j 00:39	29° \mathbb{M} 00'34	1°06'01
	543 Sep 29 j 04:35	0° $\underline{\Omega}$		minimum elong	544 Sep 20 j 05:32	29° \mathbb{M} 21'23	1°05'26
					544 Sep 20 j 14:36	0° $\underline{\Omega}$	
superior conj	543 Oct 10 j 05:07	18° $\underline{\Omega}$ 24'10	0°28'34	max. Earth dist.	544 Sep 27 j 04:37	10° $\underline{\Omega}$ 57'27	1.43059 AU
minimum elong	543 Oct 10 j 08:13	18° $\underline{\Omega}$ 36'48	0°28'09	desc. node	544 Sep 30 j 09:56	16° $\underline{\Omega}$ 09'24	
desc. node	543 Oct 14 j 12:55	25° $\underline{\Omega}$ 22'46		evening rise	544 Oct 04 j 17:09	22° $\underline{\Omega}$ 57'03	
max. Earth dist.	543 Oct 15 j 14:09	27° $\underline{\Omega}$ 03'24	1.44357 AU		544 Oct 09 j 06:42	0° \mathbb{M}	
	543 Oct 17 j 10:40	0° \mathbb{M}			544 Oct 30 j 05:44	0° \mathbb{M}	
evening rise	543 Oct 26 j 08:21	13° \mathbb{M} 52'52		evening max el	544 Nov 04 j 19:34	6° \mathbb{M} 28'05	21°35'00
	543 Nov 05 j 22:50	0° \mathbb{M}		retrograde	544 Nov 13 j 17:59	11° \mathbb{M} 46'55	
evening max el	543 Nov 22 j 21:59	22° \mathbb{M} 58'55	20°24'31	evening set	544 Nov 17 j 23:41	10° \mathbb{M} 07'25	
retrograde	543 Nov 30 j 20:56	27° \mathbb{M} 40'05		asc. node	544 Nov 18 j 02:35	10° \mathbb{M} 01'36	
asc. node	543 Dec 02 j 05:32	27° \mathbb{M} 29'38		inferior conj	544 Nov 23 j 08:12	3° \mathbb{M} 51'33	1°43'34
evening set	543 Dec 04 j 15:58	26° \mathbb{M} 16'49		minimum elong	544 Nov 23 j 06:03	3° \mathbb{M} 58'58	1°42'46
inferior conj	543 Dec 10 j 02:00	20° \mathbb{M} 10'07	2°27'22	min. Earth dist.	544 Nov 23 j 13:06	3° \mathbb{M} 34'36	0.67585 AU
minimum elong	543 Dec 09 j 23:20	20° \mathbb{M} 19'07	2°26'31		544 Nov 26 j 06:14	30° $\mathbb{R}\mathbb{M}$	
min. Earth dist.	543 Dec 10 j 18:32	19° \mathbb{M} 14'07	0.67118 AU	morning rise	544 Nov 28 j 12:17	27° \mathbb{M} 38'48	
morning rise	543 Dec 15 j 06:31	13° \mathbb{M} 56'57		direct	544 Dec 03 j 12:43	25° \mathbb{M} 30'05	
direct	543 Dec 20 j 22:14	11° \mathbb{M} 26'57			544 Dec 12 j 02:27	0° \mathbb{M}	
morning max el	544 Jan 01 j 07:49	18° \mathbb{M} 14'36	24°37'58	morning max el	544 Dec 13 j 17:10	1° \mathbb{M} 33'12	23°10'08
desc. node	544 Jan 10 j 12:09	29° \mathbb{M} 02'58		desc. node	544 Dec 27 j 09:12	18° \mathbb{M} 34'48	
	544 Jan 11 j 05:29	0° \mathbb{M}			545 Jan 04 j 05:37	0° \mathbb{M}	
	544 Jan 31 j 06:19	0° \approx		morning set	545 Jan 17 j 11:48	21° \mathbb{M} 00'53	
morning set	544 Feb 06 j 09:04	10° \approx 26'38		max. Earth dist.	545 Jan 21 j 20:21	28° \mathbb{M} 25'33	1.39547 AU
max. Earth dist.	544 Feb 10 j 01:00	17° \approx 00'47	1.37439 AU		545 Jan 22 j 18:04	0° \approx	
superior conj	544 Feb 16 j 17:45	29° \approx 38'16	-1°38'43	superior conj	545 Jan 29 j 12:05	12° \approx 07'53	-1°55'42
minimum elong	544 Feb 16 j 21:44	29° \approx 57'37	1°38'16	minimum elong	545 Jan 29 j 15:11	12° \approx 22'13	1°55'32
	544 Feb 16 j 22:13	0° \mathbb{M}		evening rise	545 Feb 07 j 23:49	0° \mathbb{M} 08'40	
evening rise	544 Feb 25 j 06:58	16° \mathbb{M} 35'25			545 Feb 07 j 22:00	0° \mathbb{M}	
asc. node	544 Feb 28 j 04:50	22° \mathbb{M} 19'19		asc. node	545 Feb 14 j 01:54	11° \mathbb{M} 34'01	
	544 Mar 03 j 07:32	0° \mathbb{Y}		evening max el	545 Feb 24 j 06:03	26° \mathbb{M} 17'49	18°33'41
evening max el	544 Mar 13 j 03:45	13° \mathbb{Y} 52'26	19°15'52		545 Mar 02 j 21:51	0° \mathbb{Y}	
retrograde	544 Mar 22 j 03:39	18° \mathbb{Y} 12'30		retrograde	545 Mar 03 j 22:55	0° \mathbb{Y} 04'06	
evening set	544 Mar 24 j 07:50	17° \mathbb{Y} 58'25			545 Mar 05 j 00:15	30° $\mathbb{R}\mathbb{M}$	
inferior conj	544 Apr 01 j 15:30	13° \mathbb{Y} 48'52	1°36'13	evening set	545 Mar 06 j 08:16	29° \mathbb{M} 43'32	
minimum elong	544 Apr 01 j 19:04	13° \mathbb{Y} 42'53	1°35'04	inferior conj	545 Mar 13 j 20:56	25° \mathbb{M} 15'14	2°52'11
min. Earth dist.	544 Apr 04 j 12:38	11° \mathbb{Y} 53'59	0.56396 AU	minimum elong	545 Mar 14 j 01:01	25° \mathbb{M} 07'14	2°51'15
desc. node	544 Apr 07 j 11:18	10° \mathbb{Y} 09'25		min. Earth dist.	545 Mar 17 j 06:46	22° \mathbb{M} 36'35	0.58186 AU
morning rise	544 Apr 10 j 03:27	8° \mathbb{Y} 57'35		morning rise	545 Mar 21 j 14:57	19° \mathbb{M} 52'47	
direct	544 Apr 14 j 23:03	8° \mathbb{Y} 04'11		desc. node	545 Mar 25 j 08:22	18° \mathbb{M} 36'54	
morning max el	544 Apr 29 j 03:33	15° \mathbb{Y} 18'42	25°14'26	direct	545 Mar 27 j 12:03	18° \mathbb{M} 25'02	
	544 May 10 j 21:21	0° \mathbb{B}		morning max el	545 Apr 10 j 20:51	26° \mathbb{M} 02'03	26°37'22
morning set	544 May 25 j 19:02	27° \mathbb{B} 21'06			545 Apr 14 j 14:22	0° \mathbb{Y}	
asc. node	544 May 26 j 04:06	28° \mathbb{B} 08'57			545 May 04 j 03:00	0° \mathbb{B}	
	544 May 27 j 00:59	0° \mathbb{H}		morning set	545 May 10 j 05:43	12° \mathbb{B} 14'52	
				asc. node	545 May 13 j 01:09	18° \mathbb{B} 14'08	
superior conj	544 Jun 01 j 18:44	12° \mathbb{H} 28'19	1°04'47				
minimum elong	544 Jun 01 j 16:24	12° \mathbb{H} 15'34	1°04'23	superior conj	545 May 17 j 06:24	27° \mathbb{B} 27'21	0°43'20
max. Earth dist.	544 Jun 02 j 22:21	14° \mathbb{H} 58'47	1.32751 AU	minimum elong	545 May 17 j 04:38	27° \mathbb{B} 17'35	0°42'58
evening rise	544 Jun 08 j 22:09	27° \mathbb{H} 42'29		max. Earth dist.	545 May 17 j 10:17	27° \mathbb{B} 48'43	1.32351 AU
	544 Jun 10 j 01:06	0° \mathbb{B}			545 May 18 j 10:12	0° \mathbb{H}	
	544 Jun 27 j 02:35	0° Ω		evening rise	545 May 24 j 04:57	12° \mathbb{H} 27'21	
desc. node	544 Jul 04 j 10:36	9° Ω 58'51			545 Jun 02 j 04:35	0° \mathbb{B}	
evening max el	544 Jul 11 j 02:18	17° Ω 16'36	27°19'32	desc. node	545 Jun 21 j 07:37	27° \mathbb{B} 28'29	
retrograde	544 Jul 24 j 21:37	24° Ω 33'40		evening max el	545 Jun 23 j 05:15	29° \mathbb{B} 22'21	26°42'34
evening set	544 Aug 01 j 02:04	22° Ω 06'38			545 Jun 23 j 21:22	0° Ω	
min. Earth dist.	544 Aug 04 j 16:02	19° Ω 14'40	0.62312 AU	retrograde	545 Jul 07 j 04:35	6° Ω 37'12	
inferior conj	544 Aug 07 j 15:07	16° Ω 28'32	-4°04'22	evening set	545 Jul 13 j 23:14	4° Ω 38'48	
minimum elong	544 Aug 07 j 19:57	16° Ω 17'12	4°03'19	min. Earth dist.	545 Jul 17 j 18:47	2° Ω 01'04	0.60310 AU

	545 Jul 20 j 06:12	30° RE		min. Earth dist.	546 Jun 29 j 13:31	13° $\text{E}51'14$	0.58259 AU
inferior conj	545 Jul 21 j 02:01	29° $\text{E}19'00$	-4°38'04	inferior conj	546 Jul 02 j 18:58	11° $\text{E}33'44$	-4°48'32
minimum elong	545 Jul 21 j 05:15	29° $\text{E}12'21$	4°37'42	minimum elong	546 Jul 02 j 18:22	11° $\text{E}34'50$	4°48'32
morning rise	545 Jul 28 j 13:12	24° $\text{E}37'28$		morning rise	546 Jul 10 j 17:18	7° $\text{E}14'33$	
direct	545 Jul 31 j 00:20	24° $\text{E}14'33$		direct	546 Jul 13 j 05:55	6° $\text{E}54'30$	
morning max el	545 Aug 07 j 09:27	27° $\text{E}50'39$	18°10'08	morning max el	546 Jul 21 j 14:52	10° $\text{E}51'42$	18°46'45
asc. node	545 Aug 09 j 00:23	29° $\text{E}33'25$		asc. node	546 Jul 26 j 21:26	17° $\text{E}14'22$	
	545 Aug 09 j 09:29	0° O			546 Aug 03 j 09:12	0° O	
morning set	545 Aug 23 j 07:09	23° $\text{O}03'29$		morning set	546 Aug 07 j 01:35	7° $\text{O}05'26$	
	545 Aug 26 j 23:53	0° M					
				superior conj	546 Aug 15 j 16:23	23° $\text{O}48'41$	1°43'35
superior conj	545 Sep 01 j 22:11	10° $\text{M}53'45$	1°30'43	minimum elong	546 Aug 15 j 18:08	23° $\text{O}56'55$	1°43'30
minimum elong	545 Sep 02 j 01:58	11° $\text{M}10'48$	1°30'23		546 Aug 18 j 23:55	0° M	
max. Earth dist.	545 Sep 09 j 13:11	24° $\text{M}11'53$	1.41287 AU	max. Earth dist.	546 Aug 22 j 16:56	6° $\text{M}42'02$	1.39281 AU
	545 Sep 13 j 00:47	0° E		evening rise	546 Aug 26 j 16:52	13° $\text{M}38'54$	
evening rise	545 Sep 14 j 17:01	2° $\text{E}44'09$		desc. node	546 Sep 04 j 03:59	27° $\text{M}29'03$	
desc. node	545 Sep 17 j 06:58	6° $\text{E}52'44$			546 Sep 05 j 18:44	0° E	
	545 Oct 02 j 16:01	0° M			546 Sep 27 j 16:51	0° M	
evening max el	545 Oct 18 j 11:49	19° $\text{M}58'19$	22°53'11	evening max el	546 Oct 01 j 00:41	3° $\text{M}32'16$	24°13'17
retrograde	545 Oct 28 j 12:46	25° $\text{M}56'05$		retrograde	546 Oct 12 j 04:00	10° $\text{M}04'21$	
evening set	545 Nov 02 j 06:57	23° $\text{M}59'14$		evening set	546 Oct 17 j 12:08	7° $\text{M}50'06$	
asc. node	545 Nov 04 j 23:38	21° $\text{M}10'15$		min. Earth dist.	546 Oct 22 j 05:52	2° $\text{M}21'51$	0.67520 AU
inferior conj	545 Nov 07 j 15:26	17° $\text{M}37'58$	0°54'21	inferior conj	546 Oct 22 j 21:59	1° $\text{M}27'33$	0°01'08
minimum elong	545 Nov 07 j 14:12	17° $\text{M}42'15$	0°53'51	minimum elong	546 Oct 22 j 21:57	1° $\text{M}27'39$	0°01'08
min. Earth dist.	545 Nov 07 j 09:41	17° $\text{M}57'49$	0.67713 AU	transit middle	546 Oct 22 j 21:57	1° $\text{M}27'39$	0°01'08
morning rise	545 Nov 12 j 21:21	11° $\text{M}27'45$		transit begin	546 Oct 22 j 19:13	1° $\text{M}36'51$	
direct	545 Nov 17 j 07:02	9° $\text{M}41'40$		transit end	546 Oct 23 j 00:40	1° $\text{M}18'28$	
morning max el	545 Nov 26 j 06:37	14° $\text{M}58'30$	21°44'35	asc. node	546 Oct 22 j 20:40	1° $\text{M}31'59$	
	545 Dec 08 j 07:19	0° E			546 Oct 24 j 00:11	30° RE	
desc. node	545 Dec 14 j 06:15	8° $\text{E}32'58$		morning rise	546 Oct 28 j 07:45	25° $\text{E}22'20$	
morning set	545 Dec 28 j 09:17	0° $\text{E}11'04$		direct	546 Nov 01 j 04:08	23° $\text{E}57'45$	
	545 Dec 28 j 06:30	0° E		morning max el	546 Nov 09 j 02:57	28° $\text{E}33'29$	20°28'12
max. Earth dist.	546 Jan 03 j 19:29	10° $\text{E}37'57$	1.41619 AU		546 Nov 10 j 11:40	0° M	
				desc. node	546 Dec 01 j 03:16	28° $\text{M}50'15$	
superior conj	546 Jan 11 j 10:31	23° $\text{E}37'52$	-2°02'49		546 Dec 01 j 21:37	0° E	
minimum elong	546 Jan 11 j 10:38	23° $\text{E}38'22$	2°02'49	morning set	546 Dec 07 j 08:42	8° $\text{E}23'36$	
	546 Jan 15 j 00:49	0° E		max. Earth dist.	546 Dec 17 j 02:11	23° $\text{E}45'14$	1.43368 AU
evening rise	546 Jan 22 j 04:41	13° $\text{E}03'13$			546 Dec 20 j 22:26	0° E	
asc. node	546 Jan 31 j 22:57	0° $\text{E}19'24$					
	546 Jan 31 j 18:07	0° E		superior conj	546 Dec 23 j 08:02	3° $\text{E}57'43$	-1°55'19
evening max el	546 Feb 07 j 14:43	9° $\text{E}09'22$	18°11'29	minimum elong	546 Dec 23 j 03:14	3° $\text{E}37'49$	1°55'04
retrograde	546 Feb 14 j 11:57	12° $\text{E}37'39$		evening rise	547 Jan 04 j 17:30	25° $\text{E}11'08$	
evening set	546 Feb 17 j 02:27	12° $\text{E}08'34$			547 Jan 07 j 11:23	0° E	
inferior conj	546 Feb 23 j 22:51	7° $\text{E}19'28$	3°34'03	asc. node	547 Jan 18 j 19:59	18° $\text{E}26'45$	
minimum elong	546 Feb 24 j 01:11	7° $\text{E}14'09$	3°33'47	evening max el	547 Jan 22 j 02:43	22° $\text{E}19'15$	18°08'48
min. Earth dist.	546 Feb 27 j 06:30	4° $\text{E}19'54$	0.60281 AU	retrograde	547 Jan 28 j 14:58	25° $\text{E}44'03$	
morning rise	546 Mar 02 j 21:54	1° $\text{E}35'19$		evening set	547 Jan 31 j 10:15	25° $\text{E}05'10$	
	546 Mar 06 j 07:15	30° RE		inferior conj	547 Feb 06 j 17:59	19° $\text{E}55'23$	3°48'16
direct	546 Mar 09 j 13:23	29° $\text{E}29'56$		minimum elong	547 Feb 06 j 18:09	19° $\text{E}54'58$	3°48'15
desc. node	546 Mar 12 j 05:25	29° $\text{E}49'09$		min. Earth dist.	547 Feb 09 j 14:14	16° $\text{E}59'44$	0.62355 AU
	546 Mar 12 j 21:48	0° E		morning rise	547 Feb 13 j 00:56	13° $\text{E}58'08$	
morning max el	546 Mar 23 j 19:52	7° $\text{E}18'58$	27°30'50	direct	547 Feb 20 j 00:22	11° $\text{E}23'18$	
	546 Apr 09 j 23:29	0° E		desc. node	547 Feb 27 j 02:28	13° $\text{E}39'37$	
morning set	546 Apr 24 j 13:22	26° $\text{E}57'14$		morning max el	547 Mar 06 j 00:37	19° $\text{E}16'24$	27°47'58
	546 Apr 26 j 00:21	0° E			547 Mar 15 j 03:42	0° E	
asc. node	546 Apr 29 j 22:13	8° $\text{E}23'54$			547 Apr 02 j 20:08	0° E	
max. Earth dist.	546 Apr 30 j 22:37	10° $\text{E}37'11$	1.32319 AU	morning set	547 Apr 08 j 15:55	11° $\text{E}21'13$	
				max. Earth dist.	547 Apr 14 j 07:36	23° $\text{E}11'33$	1.32671 AU
superior conj	546 May 01 j 17:54	12° $\text{E}22'51$	0°19'11	superior conj	547 Apr 16 j 03:34	27° $\text{E}09'00$	-0°06'55
minimum elong	546 May 01 j 17:03	12° $\text{E}18'08$	0°18'59	minimum elong	547 Apr 16 j 03:54	27° $\text{E}10'46$	0°06'51
evening rise	546 May 08 j 15:10	27° $\text{E}19'50$		behind sun begin	547 Apr 15 j 23:12	26° $\text{E}45'20$	
	546 May 09 j 21:43	0° E		behind sun end	547 Apr 16 j 08:35	27° $\text{E}36'13$	
	546 May 27 j 00:05	0° E		asc. node	547 Apr 16 j 19:15	28° $\text{E}34'09$	
evening max el	546 Jun 05 j 01:18	10° $\text{E}42'22$	25°35'09		547 Apr 17 j 11:02	0° E	
desc. node	546 Jun 08 j 04:39	13° $\text{E}25'53$		evening rise	547 Apr 23 j 02:54	12° $\text{E}13'18$	
retrograde	546 Jun 19 j 02:22	17° $\text{E}52'54$			547 May 02 j 04:15	0° E	
evening set	546 Jun 24 j 21:59	16° $\text{E}32'57$					

evening max el	547 May 17 j 16:19	21° Π 26'37	24°06'28	evening max el	548 Apr 28 j 07:59	2° Π 00'08	22°30'54
desc. node	547 May 26 j 01:41	27° Π 16'34		retrograde	548 May 11 j 09:28	8° Π 27'25	
retrograde	547 May 31 j 12:15	28° Π 23'52		desc. node	548 May 11 j 22:42	8° Π 26'44	
evening set	547 Jun 04 j 22:21	27° Π 40'31		evening set	548 May 14 j 10:41	8° Π 06'58	
min. Earth dist.	547 Jun 11 j 03:26	24° Π 39'10	0.56473 AU	min. Earth dist.	548 May 22 j 15:38	4° Π 33'49	0.55289 AU
inferior conj	547 Jun 13 j 15:48	23° Π 05'26	-4°22'42	inferior conj	548 May 23 j 18:38	3° Π 55'31	-3°10'59
minimum elong	547 Jun 13 j 10:20	23° Π 13'58	4°21'51	minimum elong	548 May 23 j 11:14	4° Π 06'01	3°08'54
morning rise	547 Jun 22 j 01:06	19° Π 04'36		morning rise	548 Jun 01 j 13:50	0° Π 02'29	
direct	547 Jun 24 j 16:43	18° Π 46'07			548 Jun 01 j 18:39	30° κ 8	
morning max el	547 Jul 04 j 10:51	23° Π 17'35	19°44'30	direct	548 Jun 04 j 10:24	29° δ 43'47	
	547 Jul 10 j 02:54	0° ϵ			548 Jun 07 j 00:38	0° Π	
asc. node	547 Jul 13 j 18:28	5° ϵ 41'45		morning max el	548 Jun 15 j 19:45	5° Π 01'46	21°02'41
morning set	547 Jul 22 j 03:46	21° ϵ 31'22		asc. node	548 Jun 29 j 15:31	24° Π 44'39	
	547 Jul 26 j 08:11	0° Ω			548 Jul 02 j 09:07	0° ϵ	
				morning set	548 Jul 05 j 11:12	6° ϵ 14'43	
superior conj	547 Jul 30 j 01:48	7° Ω 29'45	1°46'41	superior conj	548 Jul 12 j 22:04	21° ϵ 44'44	1°42'03
minimum elong	547 Jul 30 j 01:37	7° Ω 28'51	1°46'42	minimum elong	548 Jul 12 j 20:31	21° ϵ 36'47	1°41'58
max. Earth dist.	547 Aug 04 j 20:48	18° Ω 40'56	1.37300 AU		548 Jul 16 j 23:52	0° Ω	
evening rise	547 Aug 08 j 16:29	25° Ω 41'29			548 Jul 17 j 06:27	0° Ω 32'39	1.35550 AU
	547 Aug 11 j 02:55	0° η		evening rise	548 Jul 21 j 11:41	8° Ω 41'46	
desc. node	547 Aug 22 j 00:59	17° η 53'26			548 Aug 02 j 17:32	0° η	
	547 Aug 30 j 07:52	0° α		desc. node	548 Aug 07 j 22:00	8° η 00'21	
evening max el	547 Sep 13 j 12:26	17° α 09'40	25°28'08		548 Aug 25 j 05:24	0° α	
retrograde	547 Sep 25 j 14:43	24° α 06'57		evening max el	548 Aug 26 j 00:20	0° α 46'34	26°29'55
evening set	547 Oct 01 j 13:27	21° α 36'53		retrograde	548 Sep 07 j 20:22	7° α 58'59	
min. Earth dist.	547 Oct 05 j 23:08	16° α 43'58	0.67007 AU	evening set	548 Sep 14 j 08:58	5° α 17'24	
inferior conj	547 Oct 07 j 02:02	15° α 17'13	-0°54'42	min. Earth dist.	548 Sep 18 j 11:07	1° α 01'24	0.66156 AU
minimum elong	547 Oct 07 j 03:25	15° α 12'44	0°54'06		548 Sep 19 j 07:30	30° κ η	
asc. node	547 Oct 09 j 17:42	12° α 01'49		inferior conj	548 Sep 20 j 01:45	29° η 04'34	-1°51'28
morning rise	547 Oct 12 j 17:33	9° α 19'55		minimum elong	548 Sep 20 j 04:37	28° η 55'52	1°50'20
direct	547 Oct 16 j 02:34	8° α 14'03		asc. node	548 Sep 25 j 14:44	23° η 33'07	
morning max el	547 Oct 23 j 06:58	12° α 18'01	19°25'06	morning rise	548 Sep 26 j 00:43	23° η 18'14	
	547 Nov 05 j 10:47	0° \mathbb{M}		direct	548 Sep 29 j 00:32	22° η 27'40	
morning set	547 Nov 16 j 08:25	16° \mathbb{M} 45'44		morning max el	548 Oct 05 j 17:29	26° η 09'53	18°37'29
desc. node	547 Nov 18 j 00:17	19° \mathbb{M} 20'32			548 Oct 09 j 00:56	0° α	
	547 Nov 24 j 20:10	0° \propto		morning set	548 Oct 26 j 06:26	26° α 18'46	
max. Earth dist.	547 Nov 29 j 16:10	7° \propto 36'33	1.44562 AU		548 Oct 28 j 13:56	0° \mathbb{M}	
superior conj	547 Dec 03 j 03:04	13° \propto 05'52	-1°29'30	desc. node	548 Nov 03 j 21:17	9° \mathbb{M} 59'56	
minimum elong	547 Dec 02 j 18:41	12° \propto 32'23	1°28'41	superior conj	548 Nov 11 j 04:57	21° \mathbb{M} 31'25	-0°47'03
	547 Dec 13 j 13:09	0° \mathfrak{Z}		minimum elong	548 Nov 10 j 22:56	21° \mathbb{M} 07'44	0°46'17
evening rise	547 Dec 17 j 09:50	6° \mathfrak{Z} 24'16		max. Earth dist.	548 Nov 11 j 10:21	21° \mathbb{M} 52'36	1.45059 AU
	548 Jan 01 j 01:12	0° \approx			548 Nov 16 j 14:19	0° \propto	
evening max el	548 Jan 05 j 15:09	5° \approx 39'41	18°24'59	evening rise	548 Nov 27 j 02:44	16° \propto 39'07	
asc. node	548 Jan 05 j 17:01	5° \approx 44'24			548 Dec 05 j 11:59	0° \mathfrak{Z}	
retrograde	548 Jan 12 j 03:41	9° \approx 13'38		greatest brilliancy	548 Dec 05 j 09:12	29° \propto 49'01	-0.8m
evening set	548 Jan 15 j 03:56	8° \approx 24'03		evening max el	548 Dec 19 j 01:29	19° \mathfrak{Z} 05'23	18°58'59
inferior conj	548 Jan 21 j 02:21	2° \approx 54'58	3°42'07	asc. node	548 Dec 22 j 14:03	21° \mathfrak{Z} 58'45	
minimum elong	548 Jan 21 j 00:51	2° \approx 59'19	3°41'58	retrograde	548 Dec 25 j 22:16	22° \mathfrak{Z} 59'11	
min. Earth dist.	548 Jan 23 j 07:25	0° \approx 22'32	0.64170 AU	evening set	548 Dec 29 j 04:27	21° \mathfrak{Z} 57'49	
	548 Jan 23 j 15:31	30° κ \mathfrak{Z}		inferior conj	549 Jan 03 j 20:20	16° \mathfrak{Z} 11'45	3°21'15
morning rise	548 Jan 26 j 21:13	26° \mathfrak{Z} 49'47		minimum elong	549 Jan 03 j 17:52	16° \mathfrak{Z} 19'27	3°20'46
direct	548 Feb 02 j 18:52	23° \mathfrak{Z} 59'48		min. Earth dist.	549 Jan 05 j 10:05	14° \mathfrak{Z} 13'44	0.65617 AU
desc. node	548 Feb 13 j 23:30	29° \mathfrak{Z} 33'41		morning rise	549 Jan 09 j 07:00	10° \mathfrak{Z} 01'38	
	548 Feb 14 j 11:15	0° \approx		direct	549 Jan 15 j 19:53	7° \mathfrak{Z} 10'53	
morning max el	548 Feb 16 j 09:12	1° \approx 49'40	27°28'56	morning max el	549 Jan 28 j 19:02	14° \mathfrak{Z} 47'43	26°38'51
	548 Mar 08 j 08:18	0° \mathfrak{H}		desc. node	549 Jan 30 j 20:32	16° \mathfrak{Z} 57'22	
morning set	548 Mar 22 j 10:47	25° \mathfrak{H} 18'37			549 Feb 10 j 06:13	0° \approx	
	548 Mar 24 j 19:06	0° Υ		morning set	549 Mar 01 j 02:05	0° \mathfrak{H}	
max. Earth dist.	548 Mar 27 j 09:25	5° Υ 19'59	1.33437 AU	max. Earth dist.	549 Mar 05 j 18:29	8° \mathfrak{H} 38'20	
superior conj	548 Mar 30 j 09:34	11° Υ 39'50	-0°34'01		549 Mar 10 j 00:39	16° \mathfrak{H} 54'50	1.34651 AU
minimum elong	548 Mar 30 j 11:13	11° Υ 48'39	0°33'40	superior conj	549 Mar 14 j 09:41	25° \mathfrak{H} 48'01	-1°00'56
asc. node	548 Apr 02 j 16:18	18° Υ 40'59		minimum elong	549 Mar 14 j 12:37	26° \mathfrak{H} 03'12	1°00'24
evening rise	548 Apr 06 j 14:19	27° Υ 01'32			549 Mar 16 j 10:10	0° Υ	
	548 Apr 08 j 00:33	0° \mathfrak{B}		asc. node	549 Mar 20 j 13:21	8° Υ 39'39	
	548 Apr 26 j 09:24	0° Π					

evening rise	549 Mar 21 j 23:32	11° Υ 37'30		minimum elong	550 Feb 26 j 05:03	9° Υ 45'06	1°25'28
	549 Mar 31 j 14:54	0° Υ		evening rise	550 Mar 06 j 04:27	25° Υ 54'46	
evening max el	549 Apr 10 j 07:07	12° Υ 51'36	21°02'14	asc. node	550 Mar 07 j 10:25	28° Υ 25'48	
retrograde	549 Apr 21 j 23:05	18° Υ 31'27			550 Mar 08 j 05:18	0° Υ	
evening set	549 Apr 24 j 04:49	18° Υ 19'41		evening max el	550 Mar 23 j 17:36	24° Υ 19'52	19°49'17
desc. node	549 Apr 28 j 19:45	16° Υ 49'55		retrograde	550 Apr 02 j 16:16	29° Υ 06'39	
inferior conj	549 May 03 j 12:44	14° Υ 21'06	-1°21'05	evening set	550 Apr 04 j 18:15	28° Υ 55'00	
minimum elong	549 May 03 j 08:55	14° Υ 26'31	1°19'44	inferior conj	550 Apr 13 j 12:44	24° Υ 53'33	0°37'02
min. Earth dist.	549 May 04 j 04:21	13° Υ 59'00	0.54979 AU	minimum elong	550 Apr 13 j 14:21	24° Υ 51'04	0°36'27
morning rise	549 May 12 j 12:56	10° Υ 17'16		desc. node	550 Apr 15 j 16:46	23° Υ 33'17	
direct	549 May 15 j 20:15	9° Υ 53'41		min. Earth dist.	550 Apr 15 j 18:36	23° Υ 30'31	0.55631 AU
morning max el	549 May 28 j 18:15	16° Υ 04'10	22°37'07	morning rise	550 Apr 22 j 08:04	20° Υ 21'15	
	549 Jun 08 j 15:57	0° Π		direct	550 Apr 26 j 12:23	19° Υ 42'30	
asc. node	549 Jun 16 j 12:35	14° Π 13'11		morning max el	550 May 10 j 10:09	26° Υ 38'46	24°18'21
morning set	549 Jun 19 j 21:44	21° Π 08'00			550 May 13 j 15:29	0° Υ	
	549 Jun 24 j 02:01	0° Υ			550 Jun 01 j 10:43	0° Π	
				asc. node	550 Jun 03 j 09:39	4° Π 00'30	
superior conj	549 Jun 27 j 01:40	6° Υ 22'01	1°31'17	morning set	550 Jun 04 j 09:36	6° Π 05'47	
minimum elong	549 Jun 26 j 23:23	6° Υ 09'53	1°31'03				
max. Earth dist.	549 Jun 30 j 00:56	12° Υ 36'13	1.34152 AU	superior conj	550 Jun 11 j 10:00	21° Π 13'15	1°15'39
evening rise	549 Jul 04 j 21:33	22° Υ 25'26		minimum elong	550 Jun 11 j 07:33	20° Π 59'55	1°15'16
	549 Jul 08 j 20:45	0° Ω		max. Earth dist.	550 Jun 13 j 04:17	25° Π 01'17	1.33151 AU
desc. node	549 Jul 25 j 19:03	27° Ω 41'00			550 Jun 15 j 12:28	0° Υ	
	549 Jul 27 j 10:59	0° Π		evening rise	550 Jun 18 j 18:01	6° Υ 40'50	
evening max el	549 Aug 08 j 12:10	14° Π 13'27	27°11'18		550 Jul 01 j 09:44	0° Ω	
retrograde	549 Aug 21 j 20:44	21° Π 32'25		desc. node	550 Jul 12 j 16:05	16° Ω 44'14	
evening set	549 Aug 28 j 20:13	18° Π 47'06		evening max el	550 Jul 21 j 22:34	27° Ω 19'03	27°25'35
min. Earth dist.	549 Sep 01 j 15:32	15° Π 07'48	0.64938 AU		550 Jul 25 j 00:05	0° Π	
inferior conj	549 Sep 03 j 18:55	12° Π 44'55	-2°47'07	retrograde	550 Aug 04 j 15:12	4° Π 38'12	
minimum elong	549 Sep 03 j 23:07	12° Π 33'15	2°45'41	evening set	550 Aug 11 j 20:01	2° Π 00'40	
morning rise	549 Sep 10 j 02:48	7° Π 12'43			550 Aug 14 j 06:35	30° Ω	
asc. node	549 Sep 12 j 11:47	6° Π 34'23		min. Earth dist.	550 Aug 15 j 10:38	28° Ω 53'49	0.63360 AU
direct	549 Sep 12 j 19:48	6° Π 33'47		inferior conj	550 Aug 18 j 02:56	26° Ω 12'38	-3°38'33
morning max el	549 Sep 19 j 08:09	10° Π 03'34	18°06'32	minimum elong	550 Aug 18 j 07:51	26° Ω 00'16	3°37'13
	549 Oct 03 j 00:25	0° Ω		morning rise	550 Aug 24 j 20:53	20° Ω 57'40	
morning set	549 Oct 07 j 09:22	7° Ω 17'11		direct	550 Aug 27 j 09:34	20° Ω 27'01	
				asc. node	550 Aug 30 j 08:51	21° Ω 10'02	
superior conj	549 Oct 21 j 10:40	0° Π 14'21	0°02'08	morning max el	550 Sep 03 j 00:05	23° Ω 52'38	17°53'08
minimum elong	549 Oct 21 j 10:56	0° Π 15'26	0°02'06		550 Sep 07 j 21:45	0° Π	
behind sun begin	549 Oct 21 j 00:15	29° Ω 32'48		morning set	550 Sep 19 j 13:26	19° Π 28'07	
behind sun end	549 Oct 21 j 21:37	0° Π 57'59			550 Sep 25 j 15:08	0° Ω	
	549 Oct 21 j 07:04	0° Π					
desc. node	549 Oct 21 j 18:22	0° Π 45'04		superior conj	550 Oct 01 j 14:25	10° Ω 04'17	0°45'58
max. Earth dist.	549 Oct 25 j 05:07	6° Π 13'12	1.44812 AU	minimum elong	550 Oct 01 j 18:45	10° Ω 22'16	0°45'24
evening rise	549 Nov 06 j 21:47	26° Π 02'09		max. Earth dist.	550 Oct 07 j 21:27	20° Ω 20'18	1.43870 AU
	549 Nov 09 j 11:19	0° Υ		desc. node	550 Oct 08 j 15:22	21° Ω 32'03	
greatest brilliancy	549 Nov 20 j 04:13	16° Υ 20'31	-0.7m		550 Oct 13 j 23:56	0° Π	
	549 Nov 30 j 00:56	0° Υ		evening rise	550 Oct 17 j 05:19	5° Π 00'30	
evening max el	549 Dec 02 j 07:45	2° Υ 33'21	19°49'15		550 Nov 02 j 21:53	0° Υ	
asc. node	549 Dec 09 j 11:05	6° Υ 55'00		evening max el	550 Nov 15 j 08:37	16° Υ 02'07	20°53'22
retrograde	549 Dec 09 j 19:37	6° Υ 55'42		retrograde	550 Nov 23 j 17:16	20° Υ 59'16	
evening set	549 Dec 13 j 09:19	5° Υ 41'03		asc. node	550 Nov 26 j 08:08	20° Υ 20'32	
inferior conj	549 Dec 18 j 20:56	29° Υ 40'56	2°49'30	evening set	550 Nov 27 j 16:29	19° Υ 29'31	
minimum elong	549 Dec 18 j 18:11	29° Υ 50'03	2°48'45	inferior conj	550 Dec 03 j 01:41	13° Υ 18'33	2°09'32
	549 Dec 18 j 15:10	30° Υ 41'03		minimum elong	550 Dec 02 j 23:11	13° Υ 27'06	2°08'41
min. Earth dist.	549 Dec 19 j 20:47	28° Υ 21'53	0.66671 AU	min. Earth dist.	550 Dec 03 j 13:12	12° Υ 39'05	0.67353 AU
morning rise	549 Dec 24 j 02:49	23° Υ 28'06		morning rise	550 Dec 08 j 05:41	7° Υ 05'05	
direct	549 Dec 30 j 02:50	20° Υ 48'06		direct	550 Dec 13 j 14:56	4° Υ 43'31	
morning max el	550 Jan 11 j 04:07	27° Υ 58'27	25°26'10	morning max el	550 Dec 24 j 12:28	11° Υ 13'38	24°00'49
	550 Jan 13 j 02:26	0° Υ		desc. node	551 Jan 04 j 14:35	24° Υ 36'37	
desc. node	550 Jan 17 j 17:34	5° Υ 24'39			551 Jan 08 j 11:59	0° Υ	
	550 Feb 03 j 23:31	0° Υ			551 Jan 27 j 18:03	0° Υ	
morning set	550 Feb 16 j 10:24	21° Υ 07'00		morning set	551 Jan 29 j 04:24	2° Υ 26'52	
max. Earth dist.	550 Feb 20 j 04:07	28° Υ 01'40	1.36306 AU	max. Earth dist.	551 Feb 01 j 23:33	9° Υ 06'14	1.38314 AU
	550 Feb 21 j 05:06	0° Υ					
superior conj	550 Feb 26 j 01:13	9° Υ 25'59	-1°26'00	superior conj	551 Feb 09 j 04:29	22° Υ 23'22	-1°46'52
				minimum elong	551 Feb 09 j 08:19	22° Υ 41'33	1°46'32

	551 Feb 13 j 03:13	0°♄		superior conj	552 Jan 22 j 15:00	4°♄29'04	-2°00'13
evening rise	551 Feb 18 j 02:27	9°♄45'28		minimum elong	552 Jan 22 j 17:07	4°♄38'38	2°00'09
asc. node	551 Feb 22 j 07:28	17°♄53'22		evening rise	552 Feb 01 j 14:35	23°♄02'37	
	551 Mar 01 j 09:26	0°♄			552 Feb 05 j 07:41	0°♄	
evening max el	551 Mar 06 j 14:53	6°♄26'01	18°55'34	asc. node	552 Feb 09 j 04:29	6°♄56'08	
retrograde	551 Mar 15 j 00:10	10°♄29'22		evening max el	552 Feb 17 j 20:15	19°♄03'15	18°21'50
evening set	551 Mar 17 j 06:27	10°♄12'53		retrograde	552 Feb 25 j 03:07	22°♄39'39	
inferior conj	551 Mar 25 j 05:56	5°♄56'17	2°12'43	evening set	552 Feb 27 j 14:55	22°♄15'28	
minimum elong	551 Mar 25 j 10:07	5°♄48'48	2°11'32	inferior conj	552 Mar 05 j 20:12	17°♄38'18	3°13'49
min. Earth dist.	551 Mar 28 j 10:47	3°♄40'15	0.57097 AU	minimum elong	552 Mar 05 j 23:41	17°♄31'01	3°13'11
morning rise	551 Apr 02 j 10:44	0°♄50'53		min. Earth dist.	552 Mar 09 j 06:38	14°♄47'51	0.59064 AU
desc. node	551 Apr 02 j 13:49	0°♄47'44		morning rise	552 Mar 13 j 06:01	12°♄05'49	
	551 Apr 05 j 03:32	30°♄		desc. node	552 Mar 19 j 10:50	10°♄21'46	
direct	551 Apr 07 j 17:53	29°♄43'37		direct	552 Mar 19 j 12:18	10°♄21'45	
	551 Apr 10 j 08:32	0°♄		morning max el	552 Apr 02 j 20:17	18°♄04'07	27°04'22
morning max el	551 Apr 22 j 01:04	7°♄09'44	25°52'29		552 Apr 12 j 19:28	0°♄	
	551 May 08 j 22:05	0°♄			552 Apr 30 j 10:01	0°♄	
morning set	551 May 19 j 21:10	21°♄02'27		morning set	552 May 03 j 06:45	5°♄51'51	
asc. node	551 May 21 j 06:44	24°♄00'37		asc. node	552 May 07 j 03:47	14°♄08'10	
	551 May 24 j 01:10	0°♄					
superior conj	551 May 26 j 20:58	6°♄11'17	0°56'05	superior conj	552 May 10 j 08:43	21°♄09'16	0°33'23
minimum elong	551 May 26 j 18:49	5°♄59'30	0°55'41	minimum elong	552 May 10 j 07:18	21°♄01'25	0°33'05
max. Earth dist.	551 May 27 j 14:05	7°♄44'58	1.32536 AU	max. Earth dist.	552 May 10 j 02:43	20°♄36'17	1.32291 AU
evening rise	551 Jun 02 j 21:49	21°♄17'42			552 May 14 j 09:42	0°♄	
	551 Jun 07 j 05:41	0°♄		evening rise	552 May 17 j 06:18	6°♄06'50	
	551 Jun 25 j 14:02	0°♄			552 May 29 j 21:02	0°♄	
desc. node	551 Jun 29 j 13:07	4°♄54'32		evening max el	552 Jun 15 j 05:31	21°♄38'14	26°17'22
evening max el	551 Jul 04 j 05:13	9°♄50'58	27°07'55	desc. node	552 Jun 15 j 10:08	21°♄49'11	
retrograde	551 Jul 18 j 02:45	17°♄07'04		retrograde	552 Jun 29 j 05:43	28°♄50'50	
evening set	551 Jul 25 j 04:18	14°♄50'59		evening set	552 Jul 05 j 16:19	27°♄08'18	
min. Earth dist.	551 Jul 28 j 19:27	12°♄06'44	0.61479 AU	min. Earth dist.	552 Jul 09 j 18:25	24°♄31'11	0.59431 AU
inferior conj	551 Jul 31 j 22:38	9°♄20'12	-4°20'49	inferior conj	552 Jul 13 j 02:22	21°♄57'16	-4°46'05
minimum elong	551 Aug 01 j 03:02	9°♄10'24	4°20'02	minimum elong	552 Jul 13 j 04:14	21°♄53'38	4°45'58
morning rise	551 Aug 08 j 03:23	4°♄25'28		morning rise	552 Jul 20 j 18:15	17°♄25'06	
direct	551 Aug 10 j 14:24	4°♄00'17		direct	552 Jul 23 j 05:58	17°♄03'25	
asc. node	551 Aug 17 j 05:55	7°♄09'57		morning max el	552 Jul 30 j 23:48	20°♄46'51	18°23'06
morning max el	551 Aug 17 j 14:20	7°♄30'00	17°58'16	asc. node	552 Aug 03 j 02:58	24°♄18'23	
	551 Sep 01 j 02:49	0°♄			552 Aug 07 j 00:34	0°♄	
morning set	551 Sep 02 j 12:26	2°♄33'55		morning set	552 Aug 16 j 00:58	16°♄18'49	
					552 Aug 23 j 05:48	0°♄	
superior conj	551 Sep 12 j 21:33	21°♄15'15	1°18'03	superior conj	552 Aug 25 j 04:36	3°♄36'58	1°37'30
minimum elong	551 Sep 13 j 02:12	21°♄35'32	1°17'32	minimum elong	552 Aug 25 j 07:33	3°♄50'33	1°37'17
	551 Sep 18 j 00:03	0°♄		max. Earth dist.	552 Sep 01 j 16:16	16°♄57'20	1.40456 AU
max. Earth dist.	551 Sep 20 j 09:27	3°♄59'12	1.42355 AU	evening rise	552 Sep 06 j 04:37	24°♄34'35	
desc. node	551 Sep 25 j 12:25	12°♄18'19			552 Sep 09 j 12:26	0°♄	
evening rise	551 Sep 26 j 18:56	14°♄19'37		desc. node	552 Sep 11 j 09:27	2°♄59'30	
	551 Oct 06 j 23:56	0°♄			552 Sep 29 j 20:10	0°♄	
evening max el	551 Oct 29 j 03:56	29°♄32'30	22°07'40	evening max el	552 Oct 10 j 18:35	13°♄04'43	23°27'21
	551 Oct 29 j 14:55	0°♄		retrograde	552 Oct 21 j 06:40	19°♄17'11	
retrograde	551 Nov 07 j 13:23	5°♄07'38		evening set	552 Oct 26 j 06:46	17°♄12'44	
evening set	551 Nov 12 j 00:11	3°♄21'00		asc. node	552 Oct 30 j 02:10	12°♄57'43	
asc. node	551 Nov 13 j 05:09	2°♄14'47		min. Earth dist.	552 Oct 31 j 05:30	11°♄25'28	0.67680 AU
	551 Nov 15 j 03:52	30°♄		inferior conj	552 Oct 31 j 15:41	10°♄50'37	0°32'12
inferior conj	551 Nov 17 j 08:33	27°♄02'39	1°23'17	minimum elong	552 Oct 31 j 14:55	10°♄53'12	0°31'52
minimum elong	551 Nov 17 j 06:45	27°♄08'53	1°22'34	morning rise	552 Nov 05 j 23:02	4°♄42'28	
min. Earth dist.	551 Nov 17 j 08:55	27°♄01'23	0.67686 AU	direct	552 Nov 10 j 02:54	3°♄05'46	
morning rise	551 Nov 22 j 13:09	20°♄50'42		morning max el	552 Nov 18 j 15:05	8°♄03'30	21°10'38
direct	551 Nov 27 j 07:18	18°♄51'21			552 Dec 05 j 08:10	0°♄	
morning max el	551 Dec 06 j 22:54	24°♄34'04	22°32'53	desc. node	552 Dec 08 j 08:42	4°♄28'17	
	551 Dec 11 j 18:56	0°♄		morning set	552 Dec 19 j 04:50	21°♄03'54	
desc. node	551 Dec 22 j 11:39	14°♄20'56			552 Dec 24 j 19:28	0°♄	
	552 Jan 01 j 23:30	0°♄		max. Earth dist.	552 Dec 26 j 22:28	3°♄27'24	1.42424 AU
morning set	552 Jan 09 j 18:35	12°♄24'02					
max. Earth dist.	552 Jan 14 j 19:37	20°♄48'21	1.40457 AU	superior conj	553 Jan 03 j 03:22	15°♄30'32	-2°01'42
	552 Jan 20 j 02:49	0°♄		minimum elong	553 Jan 03 j 01:32	15°♄22'41	2°01'40
					553 Jan 11 j 09:48	0°♄	

evening rise	553 Jan 14 j 13:09	5° \approx 38'46		max. Earth dist.	553 Dec 09 j 08:33	16° \approx 55'40	1.43952 AU
asc. node	553 Jan 26 j 01:30	25° \approx 26'40					
	553 Jan 29 j 09:43	0° \approx		superior conj	553 Dec 14 j 13:15	25° \approx 18'14	-1°46'40
evening max el	553 Jan 31 j 06:39	2° \approx 03'36	18°07'57	minimum elong	553 Dec 14 j 06:27	24° \approx 50'32	1°46'11
retrograde	553 Feb 06 j 22:50	5° \approx 28'56			553 Dec 17 j 10:00	0° \approx	
evening set	553 Feb 09 j 15:24	4° \approx 55'44		evening rise	553 Dec 27 j 17:47	17° \approx 24'33	
inferior conj	553 Feb 16 j 05:56	29° \approx 57'22	3°43'03		554 Jan 04 j 02:46	0° \approx	
minimum elong	553 Feb 16 j 07:19	29° \approx 54'01	3°42'56	asc. node	554 Jan 12 j 22:32	13° \approx 14'29	
	553 Feb 16 j 04:50	30° \approx		evening max el	554 Jan 14 j 19:05	15° \approx 18'24	18°13'25
min. Earth dist.	553 Feb 19 j 09:19	26° \approx 56'54	0.61178 AU	retrograde	554 Jan 21 j 06:37	18° \approx 46'07	
morning rise	553 Feb 22 j 21:39	24° \approx 06'46		evening set	554 Jan 24 j 03:48	18° \approx 02'57	
direct	553 Mar 01 j 17:40	21° \approx 47'46		inferior conj	554 Jan 30 j 07:12	12° \approx 44'38	3°47'47
desc. node	553 Mar 06 j 07:52	22° \approx 44'56		minimum elong	554 Jan 30 j 06:34	12° \approx 46'21	3°47'45
morning max el	553 Mar 15 j 22:02	29° \approx 38'57	27°42'55	min. Earth dist.	554 Feb 01 j 21:09	9° \approx 56'49	0.63160 AU
	553 Mar 16 j 06:29	0° \approx		morning rise	554 Feb 05 j 08:27	6° \approx 43'13	
	553 Apr 06 j 17:48	0° \approx		direct	554 Feb 12 j 07:58	4° \approx 00'04	
morning set	553 Apr 17 j 12:31	20° \approx 27'48		desc. node	554 Feb 21 j 04:55	7° \approx 32'26	
	553 Apr 22 j 01:03	0° \approx		morning max el	554 Feb 26 j 04:58	11° \approx 53'40	27°44'11
max. Earth dist.	553 Apr 23 j 14:19	3° \approx 21'50	1.32418 AU		554 Mar 12 j 14:13	0° \approx	
asc. node	553 Apr 24 j 00:49	4° \approx 18'57			554 Mar 30 j 03:05	0° \approx	
				morning set	554 Apr 01 j 12:08	4° \approx 41'42	
superior conj	553 Apr 24 j 19:39	6° \approx 01'43	0°08'19	max. Earth dist.	554 Apr 06 j 20:43	15° \approx 46'24	1.32939 AU
minimum elong	553 Apr 24 j 19:16	5° \approx 59'37	0°08'14				
behind sun begin	553 Apr 24 j 14:54	5° \approx 35'46		superior conj	554 Apr 09 j 03:57	20° \approx 41'50	-0°18'22
behind sun end	553 Apr 24 j 23:38	6° \approx 23'30		minimum elong	554 Apr 09 j 04:50	20° \approx 46'35	0°18'10
evening rise	553 May 01 j 17:24	21° \approx 00'58		asc. node	554 Apr 10 j 21:51	24° \approx 28'06	
	553 May 06 j 02:25	0° \approx			554 Apr 13 j 11:13	0° \approx	
	553 May 25 j 08:27	0° \approx		evening rise	554 Apr 16 j 05:11	5° \approx 52'34	
evening max el	553 May 27 j 22:51	2° \approx 40'46	24°59'16		554 Apr 29 j 02:42	0° \approx	
desc. node	553 Jun 02 j 07:08	6° \approx 57'49		evening max el	554 May 09 j 12:58	13° \approx 15'32	23°25'45
retrograde	553 Jun 10 j 22:34	9° \approx 47'20		desc. node	554 May 20 j 04:09	19° \approx 14'32	
evening set	553 Jun 16 j 05:06	8° \approx 43'39		retrograde	554 May 23 j 03:21	20° \approx 13'23	
min. Earth dist.	553 Jun 21 j 10:20	5° \approx 55'33	0.57451 AU	evening set	554 May 26 j 22:23	19° \approx 13'45	
inferior conj	553 Jun 24 j 10:51	3° \approx 54'28	-4°42'49	min. Earth dist.	554 Jun 02 j 23:11	16° \approx 18'11	0.55871 AU
minimum elong	553 Jun 24 j 08:08	3° \approx 59'02	4°42'36	inferior conj	554 Jun 04 j 23:16	15° \approx 10'49	-3°58'03
	553 Jul 01 j 15:44	30° \approx 11'11		minimum elong	554 Jun 04 j 16:22	15° \approx 17'07	3°56'34
morning rise	553 Jul 02 j 13:55	29° \approx 14'41		morning rise	554 Jun 13 j 13:05	11° \approx 11'19	
direct	553 Jul 05 j 03:48	29° \approx 12'45		direct	554 Jun 16 j 06:09	10° \approx 15'15	
	553 Jul 08 j 12:36	0° \approx		morning max el	554 Jun 26 j 16:59	15° \approx 14'20	20°15'30
morning max el	553 Jul 14 j 01:32	3° \approx 34'28	19°08'44		554 Jul 07 j 06:23	0° \approx	
asc. node	553 Jul 21 j 00:02	12° \approx 20'53		asc. node	554 Jul 07 j 21:05	1° \approx 04'22	
morning set	553 Jul 30 j 23:04	0° \approx 32'21		morning set	554 Jul 15 j 03:45	15° \approx 06'14	
	553 Jul 30 j 16:32	0° \approx			554 Jul 22 j 10:22	0° \approx	
superior conj	553 Aug 08 j 05:57	16° \approx 53'58	1°45'57	superior conj	554 Jul 22 j 20:28	0° \approx 51'03	1°45'34
minimum elong	553 Aug 08 j 06:49	16° \approx 58'11	1°45'57	minimum elong	554 Jul 22 j 19:38	0° \approx 46'51	1°45'33
max. Earth dist.	553 Aug 14 j 19:33	29° \approx 12'52	1.38426 AU	max. Earth dist.	554 Jul 28 j 00:44	11° \approx 03'30	1.36513 AU
	553 Aug 15 j 05:58	0° \approx		evening rise	554 Jul 31 j 23:27	18° \approx 02'50	
evening rise	553 Aug 18 j 14:56	5° \approx 59'04			554 Aug 07 j 12:37	0° \approx	
desc. node	553 Aug 29 j 06:27	23° \approx 11'33		desc. node	554 Aug 16 j 03:28	13° \approx 14'30	
	553 Sep 02 j 12:26	0° \approx			554 Aug 27 j 16:44	0° \approx	
evening max el	553 Sep 23 j 06:34	26° \approx 39'51	24°46'02	evening max el	554 Sep 05 j 18:09	10° \approx 17'44	25°56'24
	553 Sep 27 j 00:40	0° \approx		retrograde	554 Sep 18 j 04:59	17° \approx 23'33	
retrograde	553 Oct 04 j 20:05	3° \approx 12'44		evening set	554 Sep 24 j 09:43	14° \approx 47'48	
evening set	553 Oct 10 j 10:33	1° \approx 02'25		min. Earth dist.	554 Sep 28 j 16:04	10° \approx 10'22	0.66684 AU
	553 Oct 11 j 13:07	30° \approx 11'11		inferior conj	554 Sep 29 j 23:52	8° \approx 30'14	-1°18'46
min. Earth dist.	553 Oct 15 j 00:40	25° \approx 49'10	0.67348 AU	minimum elong	554 Sep 30 j 01:53	8° \approx 23'51	1°17'56
inferior conj	553 Oct 15 j 21:23	24° \approx 40'29	-0°22'19	asc. node	554 Oct 03 j 20:17	4° \approx 06'47	
minimum elong	553 Oct 15 j 21:56	24° \approx 38'39	0°22'05	morning rise	554 Oct 05 j 18:22	2° \approx 37'11	
asc. node	553 Oct 16 j 23:13	23° \approx 15'39		direct	554 Oct 08 j 23:05	1° \approx 38'26	
morning rise	553 Oct 21 j 09:25	18° \approx 38'31		morning max el	554 Oct 15 j 21:57	5° \approx 32'22	19°02'49
direct	553 Oct 25 j 00:37	17° \approx 22'29			554 Nov 02 j 05:59	0° \approx	
morning max el	553 Nov 01 j 14:52	21° \approx 43'26	19°59'32	morning set	554 Nov 07 j 08:31	7° \approx 59'20	
	553 Nov 08 j 10:27	0° \approx		desc. node	554 Nov 12 j 02:44	15° \approx 12'44	
desc. node	553 Nov 25 j 05:43	24° \approx 11'11			554 Nov 21 j 09:22	0° \approx	
morning set	553 Nov 28 j 01:09	29° \approx 11'29		max. Earth dist.	554 Nov 22 j 00:14	0° \approx 58'30	1.44860 AU
	553 Nov 28 j 13:42	0° \approx					

superior conj	554 Nov 23 j 23:10	4° ♄ 03'32	-1°13'06	desc. node	555 Oct 29 j 23:46	6° ♄ 09'03	
minimum elong	554 Nov 23 j 14:57	3° ♄ 31'06	1°12'12				
evening rise	554 Dec 09 j 00:25	28° ♄ 13'22		superior conj	555 Nov 02 j 23:56	12° ♄ 29'14	-0°26'16
	554 Dec 10 j 02:31	0° ♄		minimum elong	555 Nov 02 j 20:29	12° ♄ 15'41	0°25'47
evening max el	554 Dec 29 j 06:57	28° ♄ 42'06	18°37'22	max. Earth dist.	555 Nov 04 j 18:58	15° ♄ 18'39	1.45049 AU
asc. node	554 Dec 30 j 19:34	0° \approx 07'29			555 Nov 14 j 03:48	0° ♄	
	554 Dec 30 j 16:02	0° \approx		evening rise	555 Nov 19 j 07:23	8° ♄ 04'26	
retrograde	555 Jan 04 j 22:13	2° \approx 23'23		greatest brilliancy	555 Nov 29 j 23:43	24° ♄ 46'02	-0.8m
evening set	555 Jan 08 j 00:44	1° \approx 29'07			555 Dec 03 j 10:24	0° ♄	
	555 Jan 10 j 00:52	30° ♄		evening max el	555 Dec 12 j 15:52	12° ♄ 09'38	19°18'31
inferior conj	555 Jan 13 j 20:07	25° ♄ 52'45	3°34'46	asc. node	555 Dec 17 j 16:38	15° ♄ 50'41	
minimum elong	555 Jan 13 j 18:07	25° ♄ 58'45	3°34'29	retrograde	555 Dec 19 j 18:11	16° ♄ 14'13	
min. Earth dist.	555 Jan 15 j 18:41	23° ♄ 33'40	0.64835 AU	evening set	555 Dec 23 j 03:24	15° ♄ 07'23	
morning rise	555 Jan 19 j 11:01	19° ♄ 45'03		inferior conj	555 Dec 28 j 17:14	9° ♄ 15'11	3°08'52
direct	555 Jan 26 j 05:41	16° ♄ 52'44		minimum elong	555 Dec 28 j 14:35	9° ♄ 23'44	3°08'16
desc. node	555 Feb 08 j 01:57	24° ♄ 08'29		min. Earth dist.	555 Dec 30 j 00:56	7° ♄ 33'25	0.66124 AU
morning max el	555 Feb 08 j 14:22	24° ♄ 39'13	27°10'51	morning rise	556 Jan 03 j 01:31	3° ♄ 03'53	
	555 Feb 13 j 11:04	0° \approx		direct	556 Jan 09 j 09:27	0° ♄ 16'19	
	555 Mar 06 j 00:03	0° ♄		morning max el	556 Jan 21 j 23:46	7° ♄ 43'04	26°09'58
morning set	555 Mar 16 j 02:44	18° ♄ 24'31		desc. node	556 Jan 25 j 22:59	12° ♄ 01'42	
max. Earth dist.	555 Mar 20 j 18:05	27° ♄ 39'29	1.33895 AU		556 Feb 08 j 09:22	0° \approx	
	555 Mar 21 j 21:27	0° ♄			556 Feb 26 j 10:11	0° ♄	
				morning set	556 Feb 27 j 04:20	1° ♄ 24'08	
superior conj	555 Mar 24 j 07:44	5° ♄ 03'54	-0°45'33	max. Earth dist.	556 Mar 02 j 03:56	8° ♄ 59'18	1.35306 AU
minimum elong	555 Mar 24 j 09:57	5° ♄ 15'35	0°45'06				
asc. node	555 Mar 28 j 18:53	14° ♄ 31'51		superior conj	556 Mar 07 j 04:35	19° ♄ 00'32	-1°11'55
evening rise	555 Mar 31 j 15:53	20° ♄ 35'58		minimum elong	556 Mar 07 j 07:59	19° ♄ 17'48	1°11'22
	555 Apr 05 j 07:08	0° ♄			556 Mar 12 j 12:30	0° ♄	
evening max el	555 Apr 21 j 07:09	23° ♄ 53'34	21°51'42	evening rise	556 Mar 14 j 23:32	5° ♄ 04'50	
	555 May 02 j 21:31	0° ♄		asc. node	556 Mar 14 j 15:57	4° ♄ 25'56	
retrograde	555 May 03 j 20:16	0° ♄			556 Mar 29 j 02:22	0° ♄	
	555 May 04 j 19:10	30° ♄		evening max el	556 Apr 02 j 11:05	5° ♄ 00'11	20°29'00
evening set	555 May 06 j 10:48	29° ♄ 46'55		retrograde	556 Apr 13 j 09:20	10° ♄ 16'29	
desc. node	555 May 07 j 01:11	29° ♄ 39'19		evening set	556 Apr 15 j 12:08	10° ♄ 05'27	
inferior conj	555 May 15 j 20:46	25° ♄ 43'05	-2°27'37	desc. node	556 Apr 22 j 22:12	7° ♄ 07'06	
minimum elong	555 May 15 j 14:18	25° ♄ 52'10	2°25'32	inferior conj	556 Apr 24 j 15:36	6° ♄ 07'48	-0°29'51
min. Earth dist.	555 May 15 j 11:45	25° ♄ 55'43	0.55037 AU	minimum elong	556 Apr 24 j 14:12	6° ♄ 09'50	0°29'21
morning rise	555 May 24 j 18:56	21° ♄ 47'29		min. Earth dist.	556 Apr 26 j 00:57	5° ♄ 19'26	0.55145 AU
direct	555 May 27 j 18:59	21° ♄ 27'30		morning rise	556 May 03 j 15:05	1° ♄ 53'42	
morning max el	555 Jun 08 j 21:08	27° ♄ 08'35	21°41'19	direct	556 May 07 j 06:30	1° ♄ 24'59	
	555 Jun 11 j 15:46	0° ♄		morning max el	556 May 20 j 16:00	7° ♄ 56'12	23°20'08
asc. node	555 Jun 24 j 18:08	20° ♄ 18'52			556 Jun 05 j 11:36	0° ♄	
morning set	555 Jun 29 j 12:41	29° ♄ 53'53		asc. node	556 Jun 10 j 15:12	9° ♄ 56'32	
	555 Jun 29 j 13:51	0° ♄		morning set	556 Jun 13 j 00:00	14° ♄ 50'09	
superior conj	555 Jul 06 j 20:10	15° ♄ 16'11	1°38'09	superior conj	556 Jun 20 j 02:04	0° ♄ 00'27	1°25'12
minimum elong	555 Jul 06 j 18:13	15° ♄ 06'04	1°38'00	minimum elong	556 Jun 19 j 23:38	29° ♄ 47'27	1°24'53
max. Earth dist.	555 Jul 10 j 13:44	22° ♄ 57'09	1.34905 AU		556 Jun 20 j 01:59	0° ♄	
	555 Jul 14 j 03:02	0° ♄		max. Earth dist.	556 Jun 22 j 12:29	5° ♄ 11'12	1.33678 AU
evening rise	555 Jul 15 j 01:25	1° ♄ 48'02		evening rise	556 Jun 27 j 16:17	15° ♄ 47'03	
	555 Jul 31 j 11:46	0° ♄			556 Jul 05 j 04:58	0° ♄	
desc. node	555 Aug 03 j 00:30	3° ♄ 46'18		desc. node	556 Jul 19 j 21:33	23° ♄ 12'54	
evening max el	555 Aug 19 j 06:16	23° ♄ 52'14	26°50'37		556 Jul 25 j 03:11	0° ♄	
	555 Aug 27 j 14:31	0° ♄		evening max el	556 Jul 31 j 18:00	7° ♄ 12'45	27°21'09
retrograde	555 Sep 01 j 08:32	1° ♄ 08'32		retrograde	556 Aug 14 j 06:15	14° ♄ 31'30	
	555 Sep 05 j 17:47	30° ♄		evening set	556 Aug 21 j 08:52	11° ♄ 48'14	
evening set	555 Sep 08 j 02:04	28° ♄ 24'30		min. Earth dist.	556 Aug 25 j 01:56	8° ♄ 23'25	0.64311 AU
min. Earth dist.	555 Sep 12 j 01:16	24° ♄ 24'02	0.65676 AU	inferior conj	556 Aug 27 j 10:46	5° ♄ 51'53	-3°09'41
inferior conj	555 Sep 13 j 21:08	22° ♄ 15'38	-2°15'24	minimum elong	556 Aug 27 j 15:23	5° ♄ 39'34	3°08'13
minimum elong	555 Sep 14 j 00:36	22° ♄ 05'27	2°14'04	morning rise	556 Sep 02 j 22:47	0° ♄ 26'24	
morning rise	555 Sep 19 j 23:41	16° ♄ 34'37			556 Sep 04 j 06:26	30° ♄	
asc. node	555 Sep 20 j 17:21	16° ♄ 14'25		direct	556 Sep 05 j 13:45	29° ♄ 51'12	
direct	555 Sep 22 j 20:17	15° ♄ 49'25		asc. node	556 Sep 06 j 14:23	29° ♄ 56'40	
morning max el	555 Sep 29 j 10:30	19° ♄ 25'35	18°22'12		556 Sep 06 j 21:03	0° ♄	
	555 Oct 07 j 10:44	0° ♄		morning max el	556 Sep 12 j 02:00	3° ♄ 18'02	17°58'39
morning set	555 Oct 18 j 18:57	18° ♄ 09'38		morning set	556 Sep 29 j 09:22	29° ♄ 41'49	
	555 Oct 26 j 03:08	0° ♄			556 Sep 29 j 13:38	0° ♄	

superior conj	556 Oct 12 j 13:29	21° Ω 36'32	0°21'55	superior conj	557 Sep 23 j 04:53	2° Ω 00'59	1°01'10
minimum elong	556 Oct 12 j 15:58	21° Ω 46'35	0°21'34	minimum elong	557 Sep 23 j 09:44	2° Ω 21'30	1°00'33
desc. node	556 Oct 15 j 20:50	26° Ω 55'32		max. Earth dist.	557 Sep 30 j 04:34	13° Ω 35'44	1.43285 AU
max. Earth dist.	556 Oct 17 j 13:34	29° Ω 37'44	1.44501 AU	desc. node	557 Oct 02 j 17:53	17° Ω 42'41	
	556 Oct 17 j 19:11	0° \mathbb{M}		evening rise	557 Oct 08 j 03:40	26° Ω 14'21	
evening rise	556 Oct 28 j 19:49	17° \mathbb{M} 13'08			557 Oct 10 j 14:00	0° \mathbb{M}	
	556 Nov 06 j 04:38	0° \mathcal{A}			557 Oct 31 j 04:05	0° \mathcal{A}	
evening max el	556 Nov 24 j 20:01	25° \mathcal{A} 38'30	20°14'56	evening max el	557 Nov 07 j 18:24	9° \mathcal{A} 07'42	21°23'54
	556 Dec 01 j 00:25	0° \mathcal{B}		retrograde	557 Nov 16 j 13:11	14° \mathcal{A} 21'03	
retrograde	556 Dec 02 j 15:52	0° \mathcal{B} 14'33		asc. node	557 Nov 20 j 10:41	12° \mathcal{A} 56'22	
asc. node	556 Dec 03 j 13:40	0° \mathcal{B} 09'52		evening set	557 Nov 20 j 17:07	12° \mathcal{A} 44'08	
	556 Dec 04 j 06:09	30° \mathbb{R} \mathcal{A}		inferior conj	557 Nov 26 j 01:45	6° \mathcal{A} 29'19	1°50'37
evening set	556 Dec 06 j 09:30	28° \mathcal{A} 53'29		minimum elong	557 Nov 25 j 23:30	6° \mathcal{A} 37'05	1°49'47
inferior conj	556 Dec 11 j 19:52	22° \mathcal{A} 48'18	2°33'24	min. Earth dist.	557 Nov 26 j 08:19	6° \mathcal{A} 06'39	0.67534 AU
minimum elong	556 Dec 11 j 17:10	22° \mathcal{A} 57'24	2°32'34	morning rise	557 Dec 01 j 05:44	0° \mathcal{A} 16'16	
min. Earth dist.	556 Dec 12 j 14:14	21° \mathcal{A} 46'27	0.67017 AU		557 Dec 01 j 13:25	30° \mathbb{R} \mathbb{M}	
morning rise	556 Dec 17 j 00:40	16° \mathcal{A} 35'12		direct	557 Dec 06 j 08:25	28° \mathbb{M} 04'11	
direct	556 Dec 22 j 18:33	14° \mathcal{A} 02'33			557 Dec 11 j 17:40	0° \mathcal{A}	
morning max el	557 Jan 03 j 08:21	20° \mathcal{A} 56'16	24°50'43	morning max el	557 Dec 16 j 17:25	4° \mathcal{A} 14'40	23°23'16
	557 Jan 11 j 04:29	0° \mathcal{B}		desc. node	557 Dec 29 j 17:04	20° \mathcal{A} 17'14	
desc. node	557 Jan 11 j 20:01	0° \mathcal{B} 49'51			558 Jan 05 j 11:10	0° \mathcal{B}	
	557 Jan 31 j 14:42	0° \approx		morning set	558 Jan 20 j 18:35	24° \mathcal{B} 12'28	
morning set	557 Feb 08 j 11:41	13° \approx 25'24			558 Jan 24 j 03:58	0° \approx	
max. Earth dist.	557 Feb 12 j 03:34	20° \approx 02'32	1.37135 AU	max. Earth dist.	558 Jan 24 j 22:43	1° \approx 21'28	1.39227 AU
	557 Feb 17 j 10:05	0° \mathcal{H}					
superior conj	557 Feb 18 j 15:24	2° \mathcal{H} 22'35	-1°35'33	superior conj	558 Feb 01 j 12:13	15° \approx 00'02	-1°53'41
minimum elong	557 Feb 18 j 19:24	2° \mathcal{H} 42'05	1°35'04	minimum elong	558 Feb 01 j 15:35	15° \approx 15'40	1°53'28
evening rise	557 Feb 27 j 01:52	19° \mathcal{H} 11'59			558 Feb 09 j 08:57	0° \mathcal{H}	
asc. node	557 Mar 01 j 13:00	24° \mathcal{H} 04'58		evening rise	558 Feb 10 j 20:10	2° \mathcal{H} 50'19	
	557 Mar 04 j 15:22	0° \mathcal{Y}		asc. node	558 Feb 16 j 10:02	13° \mathcal{H} 23'23	
evening max el	557 Mar 16 j 02:19	16° \mathcal{Y} 44'33	19°23'54	evening max el	558 Feb 27 j 03:22	29° \mathcal{H} 05'10	18°38'40
retrograde	557 Mar 25 j 07:56	21° \mathcal{Y} 11'21			558 Feb 28 j 03:30	0° \mathcal{Y}	
evening set	557 Mar 27 j 11:21	20° \mathcal{Y} 58'02		retrograde	558 Mar 07 j 00:11	2° \mathcal{Y} 55'24	
inferior conj	557 Apr 04 j 21:54	16° \mathcal{Y} 50'46	1°21'36	evening set	558 Mar 09 j 08:40	2° \mathcal{Y} 36'02	
minimum elong	557 Apr 05 j 01:04	16° \mathcal{Y} 45'33	1°20'34		558 Mar 14 j 12:37	30° \mathbb{R} \mathcal{H}	
min. Earth dist.	557 Apr 07 j 15:33	15° \mathcal{Y} 03'53	0.56170 AU	inferior conj	558 Mar 17 j 00:05	28° \mathcal{H} 10'56	2°42'55
desc. node	557 Apr 09 j 19:14	13° \mathcal{Y} 46'25		minimum elong	558 Mar 17 j 04:17	28° \mathcal{H} 02'54	2°41'54
morning rise	557 Apr 13 j 12:02	12° \mathcal{Y} 04'28		min. Earth dist.	558 Mar 20 j 09:10	25° \mathcal{H} 37'21	0.57891 AU
direct	557 Apr 18 j 03:28	11° \mathcal{Y} 15'24		morning rise	558 Mar 24 j 20:57	22° \mathcal{H} 52'28	
morning max el	557 May 02 j 06:45	18° \mathcal{Y} 25'39	25°00'22	desc. node	558 Mar 27 j 16:15	21° \mathcal{H} 51'53	
	557 May 11 j 21:34	0° \mathcal{B}		direct	558 Mar 30 j 14:35	21° \mathcal{H} 30'12	
morning set	557 May 28 j 11:56	29° \mathcal{B} 48'17		morning max el	558 Apr 13 j 23:19	29° \mathcal{H} 05'03	26°26'36
asc. node	557 May 28 j 12:16	29° \mathcal{B} 49'58			558 Apr 14 j 21:25	0° \mathcal{Y}	
	557 May 28 j 14:10	0° \mathbb{I}			558 May 05 j 12:48	0° \mathcal{B}	
superior conj	557 Jun 04 j 11:43	14° \mathbb{I} 55'12	1°07'47	morning set	558 May 12 j 22:52	14° \mathcal{B} 42'44	
minimum elong	557 Jun 04 j 09:20	14° \mathbb{I} 42'12	1°07'22	asc. node	558 May 15 j 09:19	19° \mathcal{B} 53'55	
max. Earth dist.	557 Jun 05 j 19:08	17° \mathbb{I} 45'56	1.32841 AU	superior conj	558 May 19 j 23:13	29° \mathcal{B} 53'56	0°46'47
evening rise	557 Jun 11 j 16:11	0° \mathcal{B} 12'25		minimum elong	558 May 19 j 21:20	29° \mathcal{B} 43'35	0°46'25
	557 Jun 11 j 13:46	0° \mathcal{B}			558 May 20 j 00:20	0° \mathbb{I}	
	557 Jun 28 j 05:56	0° \mathcal{Q}		max. Earth dist.	558 May 20 j 06:29	0° \mathbb{I} 33'48	1.32384 AU
desc. node	557 Jul 06 j 18:35	11° \mathcal{Q} 55'43		evening rise	558 May 26 j 22:14	14° \mathbb{I} 55'06	
evening max el	557 Jul 14 j 03:01	20° \mathcal{Q} 04'54	27°22'06		558 Jun 03 j 13:48	0° \mathcal{B}	
retrograde	557 Jul 27 j 21:38	27° \mathcal{Q} 22'35		desc. node	558 Jun 23 j 15:35	29° \mathcal{B} 36'40	
evening set	557 Aug 04 j 02:33	24° \mathcal{Q} 52'14			558 Jun 24 j 00:19	0° \mathcal{Q}	
min. Earth dist.	557 Aug 07 j 16:25	21° \mathcal{Q} 56'54	0.62595 AU	evening max el	558 Jun 26 j 06:52	2° \mathcal{Q} 17'12	26°50'11
inferior conj	557 Aug 10 j 13:54	19° \mathcal{Q} 11'32	-3°57'58	retrograde	558 Jul 10 j 05:54	9° \mathcal{Q} 32'43	
minimum elong	557 Aug 10 j 18:48	18° \mathcal{Q} 59'49	3°56'49	evening set	558 Jul 17 j 02:44	7° \mathcal{Q} 29'18	
morning rise	557 Aug 17 j 12:23	14° \mathcal{Q} 05'00		min. Earth dist.	558 Jul 20 j 20:43	4° \mathcal{Q} 50'26	0.60614 AU
direct	557 Aug 20 j 00:10	13° \mathcal{Q} 36'53		inferior conj	558 Jul 24 j 03:10	2° \mathcal{Q} 06'28	-4°34'14
asc. node	557 Aug 24 j 11:26	15° \mathcal{Q} 09'32		minimum elong	558 Jul 24 j 06:46	1° \mathcal{Q} 58'53	4°33'47
morning max el	557 Aug 26 j 17:34	17° \mathcal{Q} 02'47	17°53'04		558 Jul 26 j 18:06	30° \mathbb{R} \mathcal{B}	
	557 Sep 04 j 22:13	0° \mathbb{P}		morning rise	558 Jul 31 j 12:41	27° \mathcal{B} 21'34	
morning set	557 Sep 11 j 22:08	12° \mathbb{P} 17'43		direct	558 Aug 02 j 23:40	26° \mathcal{B} 58'10	
	557 Sep 22 j 00:25	0° \mathcal{Q}			558 Aug 09 j 16:16	0° \mathcal{Q}	
				morning max el	558 Aug 10 j 06:11	0° \mathcal{Q} 32'21	18°06'24
				asc. node	558 Aug 11 j 08:30	1° \mathcal{Q} 40'06	

morning set	558 Aug 26 j 03:22	25°Ω40'47		superior conj	559 Aug 18 j 14:18	26°Ω30'36	1°42'18
	558 Aug 28 j 10:53	0°൬		minimum elong	559 Aug 18 j 16:21	26°Ω40'16	1°42'12
					559 Aug 20 j 11:11	0°൬	
superior conj	558 Sep 04 j 22:46	13°൬43'27	1°27'46	max. Earth dist.	559 Aug 25 j 18:14	9°൬33'30	1.39588 AU
minimum elong	558 Sep 05 j 02:50	14°൬01'33	1°27'24	evening rise	559 Aug 29 j 20:38	16°൬37'46	
max. Earth dist.	558 Sep 12 j 13:44	26°൬55'48	1.41570 AU	desc. node	559 Sep 06 j 11:55	29°൬04'54	
	558 Sep 14 j 09:56	0°♎			559 Sep 07 j 01:58	0°♎	
evening rise	558 Sep 18 j 00:25	5°♎52'54			559 Sep 28 j 10:26	0°൬	
desc. node	558 Sep 19 j 14:55	8°♎26'55		evening max el	559 Oct 04 j 00:40	6°൬11'37	24°01'30
	558 Oct 03 j 20:09	0°൬		retrograde	559 Oct 15 j 00:07	12°൬38'42	
evening max el	558 Oct 21 j 11:20	22°൬37'47	22°41'19	evening set	559 Oct 20 j 06:07	10°൬27'02	
retrograde	558 Oct 31 j 08:22	28°൬29'59		min. Earth dist.	559 Oct 25 j 01:09	4°൬53'47	0.67574 AU
evening set	558 Nov 05 j 00:32	26°൬35'53		asc. node	559 Oct 25 j 04:44	4°൬41'38	
asc. node	558 Nov 07 j 07:42	24°൬16'02		inferior conj	559 Oct 25 j 15:41	4°൬04'32	0°09'27
inferior conj	558 Nov 10 j 08:56	20°൬15'14	1°02'09	minimum elong	559 Oct 25 j 15:27	4°൬05'19	0°09'20
minimum elong	558 Nov 10 j 07:32	20°൬20'04	1°01'34	transit middle	559 Oct 25 j 15:27	4°൬05'19	0°09'20
min. Earth dist.	558 Nov 10 j 04:47	20°൬29'36	0.67713 AU	transit begin	559 Oct 25 j 13:13	4°൬12'53	
morning rise	558 Nov 15 j 14:25	14°൬04'24		transit end	559 Oct 25 j 17:41	3°൬57'45	
direct	558 Nov 20 j 02:15	12°൬14'51			559 Oct 28 j 20:52	30°℞♎	
morning max el	558 Nov 29 j 05:55	17°൬38'27	21°56'51	morning rise	559 Oct 31 j 00:46	27°♎58'26	
	558 Dec 09 j 09:02	0°♎		direct	559 Nov 03 j 23:04	26°♎30'41	
desc. node	558 Dec 16 j 14:06	10°♎12'07			559 Nov 10 j 19:14	0°൬	
	558 Dec 29 j 14:25	0°♎		morning max el	559 Nov 12 j 01:05	1°൬11'44	20°38'45
morning set	558 Dec 31 j 20:17	3°♎34'31		desc. node	559 Dec 03 j 11:09	0°♎27'01	
max. Earth dist.	559 Jan 06 j 20:40	13°♎24'59	1.41326 AU		559 Dec 03 j 04:00	0°♎	
				morning set	559 Dec 10 j 21:47	11°♎51'43	
superior conj	559 Jan 14 j 13:57	26°♎39'51	-2°02'36	max. Earth dist.	559 Dec 20 j 02:22	26°♎25'12	1.43143 AU
minimum elong	559 Jan 14 j 14:40	26°♎43'01	2°02'35		559 Dec 22 j 07:14	0°♎	
	559 Jan 16 j 11:02	0°♎					
evening rise	559 Jan 25 j 03:01	15°♎51'01		superior conj	559 Dec 26 j 15:23	7°♎10'34	-1°57'35
	559 Feb 01 j 23:01	0°♎		minimum elong	559 Dec 26 j 11:22	6°♎53'46	1°57'25
asc. node	559 Feb 03 j 07:03	2°♎13'41		evening rise	560 Jan 07 j 18:27	28°♎06'15	
evening max el	559 Feb 10 j 11:17	11°♎53'33	18°13'31		560 Jan 08 j 20:12	0°♎	
retrograde	559 Feb 17 j 10:38	15°♎23'20		asc. node	560 Jan 21 j 04:04	20°♎27'22	
evening set	559 Feb 20 j 00:28	14°♎55'33		evening max el	560 Jan 24 j 22:59	25°♎01'18	18°07'59
inferior conj	559 Feb 26 j 23:04	10°♎09'39	3°29'39	retrograde	560 Jan 31 j 11:53	28°♎25'41	
minimum elong	559 Feb 27 j 01:43	10°♎03'43	3°29'17	evening set	560 Feb 03 j 06:30	27°♎48'14	
min. Earth dist.	559 Mar 02 j 07:51	7°♎11'32	0.59968 AU	inferior conj	560 Feb 09 j 15:53	22°♎41'21	3°47'33
morning rise	559 Mar 06 j 00:51	4°♎28'15		minimum elong	560 Feb 09 j 16:22	22°♎40'09	3°47'32
direct	559 Mar 12 j 14:22	2°♎28'05		min. Earth dist.	560 Feb 12 j 14:07	19°♎43'52	0.62060 AU
desc. node	559 Mar 14 j 13:17	2°♎38'21		morning rise	560 Feb 16 j 01:00	16°♎45'43	
morning max el	559 Mar 26 j 21:16	10°♎15'40	27°25'04	direct	560 Feb 22 j 23:54	14°♎14'37	
	559 Apr 11 j 03:52	0°♎		desc. node	560 Feb 29 j 10:19	16°♎06'58	
morning set	559 Apr 27 j 07:04	29°♎27'06		morning max el	560 Mar 08 j 01:14	22°♎07'08	27°47'50
	559 Apr 27 j 13:24	0°♎			560 Mar 14 j 23:47	0°♎	
asc. node	559 May 02 j 06:22	10°♎03'19			560 Apr 03 j 06:10	0°♎	
				morning set	560 Apr 10 j 10:31	13°♎54'25	
superior conj	559 May 04 j 10:51	14°♎50'23	0°22'59	max. Earth dist.	560 Apr 16 j 04:46	26°♎01'04	1.32594 AU
minimum elong	559 May 04 j 09:50	14°♎44'48	0°22'47				
max. Earth dist.	559 May 03 j 18:56	13°♎23'09	1.32297 AU	superior conj	560 Apr 17 j 20:54	29°♎38'26	-0°02'53
evening rise	559 May 11 j 08:04	29°♎47'04		minimum elong	560 Apr 17 j 21:02	29°♎39'11	0°02'51
	559 May 11 j 10:31	0°♎		behind sun begin	560 Apr 17 j 15:58	29°♎11'37	
	559 May 27 j 23:25	0°♎		behind sun end	560 Apr 18 j 02:06	0°♎06'45	
evening max el	559 Jun 08 j 04:06	13°♎44'43	25°46'58	asc. node	560 Apr 18 j 03:24	0°♎13'48	
desc. node	559 Jun 10 j 12:34	15°♎50'24			560 Apr 18 j 00:52	0°♎	
retrograde	559 Jun 22 j 05:13	20°♎55'56		evening rise	560 Apr 24 j 19:43	14°♎41'07	
evening set	559 Jun 28 j 05:02	19°♎30'10			560 May 02 j 12:15	0°♎	
min. Earth dist.	559 Jul 02 j 16:33	16°♎50'09	0.58554 AU	evening max el	560 May 19 j 19:38	24°♎33'12	24°20'31
inferior conj	559 Jul 05 j 23:03	14°♎27'48	-4°49'03	desc. node	560 May 27 j 09:35	0°♎02'53	
minimum elong	559 Jul 05 j 23:09	14°♎27'36	4°49'03		560 May 27 j 07:10	0°♎	
morning rise	559 Jul 13 j 19:41	10°♎05'12		retrograde	560 Jun 02 j 16:47	1°♎33'08	
direct	559 Jul 16 j 08:00	9°♎44'45		evening set	560 Jun 07 j 08:22	0°♎44'53	
morning max el	559 Jul 24 j 12:45	13°♎38'10	18°39'55		560 Jun 09 j 05:36	30°℞♎	
asc. node	559 Jul 29 j 05:34	19°♎13'22		min. Earth dist.	560 Jun 13 j 06:49	27°♎47'27	0.56709 AU
	559 Aug 04 j 18:30	0°♎		inferior conj	560 Jun 15 j 22:54	26°♎06'16	-4°29'33
morning set	559 Aug 09 j 20:26	9°♎39'04		minimum elong	560 Jun 15 j 18:05	26°♎13'55	4°28'54
				morning rise	560 Jun 24 j 06:34	22°♎03'16	

direct	560 Jun 26 j 21:46	21° Π 44'33		morning rise	561 Jun 04 j 21:53	3° Π 08'35	
morning max el	560 Jul 06 j 10:16	26° Π 09'50	19°34'35	direct	561 Jun 07 j 17:27	2° Π 50'10	
	560 Jul 09 j 22:24	0° \mathfrak{S}		morning max el	561 Jun 18 j 20:54	8° Π 00'26	20°49'54
asc. node	560 Jul 15 j 02:38	7° \mathfrak{S} 34'42		asc. node	561 Jul 01 j 23:43	26° Π 32'41	
morning set	560 Jul 23 j 21:42	24° \mathfrak{S} 02'21			561 Jul 03 j 19:45	0° \mathfrak{S}	
	560 Jul 26 j 20:40	0° Ω		morning set	561 Jul 08 j 04:29	8° \mathfrak{S} 43'16	
superior conj	560 Jul 31 j 21:49	10° Ω 06'02	1°46'46	superior conj	561 Jul 15 j 16:43	24° \mathfrak{S} 16'36	1°43'11
minimum elong	560 Jul 31 j 21:54	10° Ω 06'26	1°46'45	minimum elong	561 Jul 15 j 15:20	24° \mathfrak{S} 09'33	1°43'07
max. Earth dist.	560 Aug 06 j 21:59	21° Ω 36'58	1.37587 AU		561 Jul 18 j 12:31	0° Ω	
evening rise	560 Aug 10 j 16:58	28° Ω 31'00		max. Earth dist.	561 Jul 20 j 06:18	3° Ω 27'10	1.35790 AU
	560 Aug 11 j 13:03	0° \mathfrak{N}		evening rise	561 Jul 24 j 09:33	11° Ω 23'09	
desc. node	560 Aug 23 j 08:57	19° \mathfrak{N} 31'38			561 Aug 04 j 01:06	0° \mathfrak{N}	
	560 Aug 30 j 10:44	0° \mathfrak{L}		desc. node	561 Aug 10 j 05:57	9° \mathfrak{N} 41'23	
evening max el	560 Sep 15 j 12:29	19° \mathfrak{L} 48'45	25°17'31		561 Aug 25 j 16:50	0° \mathfrak{L}	
retrograde	560 Sep 27 j 11:30	26° \mathfrak{L} 42'41		evening max el	561 Aug 29 j 00:14	3° \mathfrak{L} 25'38	26°21'47
evening set	560 Oct 03 j 08:09	24° \mathfrak{L} 14'41		retrograde	561 Sep 10 j 18:01	10° \mathfrak{L} 36'44	
min. Earth dist.	560 Oct 07 j 18:59	19° \mathfrak{L} 16'28	0.67110 AU	evening set	561 Sep 17 j 04:42	7° \mathfrak{L} 56'19	
inferior conj	560 Oct 08 j 20:15	17° \mathfrak{L} 54'22	-0°46'07	min. Earth dist.	561 Sep 21 j 07:52	3° \mathfrak{L} 34'52	0.66305 AU
minimum elong	560 Oct 08 j 21:24	17° \mathfrak{L} 50'35	0°45'37	inferior conj	561 Sep 22 j 20:45	1° \mathfrak{L} 42'07	-1°42'55
asc. node	560 Oct 11 j 01:48	15° \mathfrak{L} 06'30		minimum elong	561 Sep 22 j 23:24	1° \mathfrak{L} 34'00	1°41'50
morning rise	560 Oct 14 j 10:49	11° \mathfrak{L} 55'49			561 Sep 24 j 06:44	30° \mathfrak{R} \mathfrak{N}	
direct	560 Oct 17 j 21:24	10° \mathfrak{L} 47'23		asc. node	561 Sep 27 j 22:54	26° \mathfrak{N} 25'42	
morning max el	560 Oct 25 j 04:03	14° \mathfrak{L} 55'14	19°33'32	morning rise	561 Sep 28 j 18:32	25° \mathfrak{N} 54'04	
	560 Nov 05 j 15:18	0° \mathfrak{M}		direct	561 Oct 01 j 19:31	25° \mathfrak{N} 01'32	
greatest brilliancy	560 Nov 07 j 19:56	3° \mathfrak{M} 16'33	-0.7m	morning max el	561 Oct 08 j 13:48	28° \mathfrak{N} 46'27	18°43'32
morning set	560 Nov 18 j 19:51	20° \mathfrak{M} 07'56			561 Oct 09 j 17:26	0° \mathfrak{L}	
desc. node	560 Nov 19 j 08:12	20° \mathfrak{M} 55'47		morning set	561 Oct 29 j 13:45	29° \mathfrak{L} 28'17	
	560 Nov 25 j 04:05	0° \mathfrak{X}			561 Oct 29 j 21:44	0° \mathfrak{M}	
max. Earth dist.	560 Dec 01 j 15:37	10° \mathfrak{X} 11'45	1.44426 AU	desc. node	561 Nov 06 j 05:14	11° \mathfrak{M} 34'02	
superior conj	560 Dec 05 j 14:07	16° \mathfrak{X} 28'22	-1°34'36	superior conj	561 Nov 14 j 17:25	24° \mathfrak{M} 56'54	-0°54'13
minimum elong	560 Dec 05 j 05:57	15° \mathfrak{X} 55'39	1°33'52	minimum elong	561 Nov 14 j 10:38	24° \mathfrak{M} 30'14	0°53'21
	560 Dec 13 j 21:41	0° \mathfrak{Z}		max. Earth dist.	561 Nov 14 j 09:17	24° \mathfrak{M} 24'54	1.45029 AU
evening rise	560 Dec 19 j 14:07	9° \mathfrak{Z} 28'12			561 Nov 17 j 22:29	0° \mathfrak{X}	
	561 Jan 01 j 01:54	0° \approx		evening rise	561 Nov 30 j 10:35	19° \mathfrak{X} 51'34	
asc. node	561 Jan 07 j 01:05	7° \approx 53'33			561 Dec 06 j 18:19	0° \mathfrak{Z}	
evening max el	561 Jan 07 j 11:31	8° \approx 20'40	18°21'25	greatest brilliancy	561 Dec 07 j 12:36	1° \mathfrak{Z} 13'02	-0.9m
retrograde	561 Jan 13 j 23:33	11° \approx 52'42		evening max el	561 Dec 21 j 22:18	21° \mathfrak{Z} 45'31	18°52'52
evening set	561 Jan 16 j 22:58	11° \approx 04'47		asc. node	561 Dec 24 j 22:09	24° \mathfrak{Z} 18'21	
inferior conj	561 Jan 22 j 22:35	5° \approx 38'19	3°44'05	retrograde	561 Dec 28 j 17:29	25° \mathfrak{Z} 35'59	
minimum elong	561 Jan 22 j 21:17	5° \approx 42'00	3°43'59	evening set	561 Dec 31 j 22:39	24° \mathfrak{Z} 36'31	
min. Earth dist.	561 Jan 25 j 05:55	3° \approx 01'35	0.63916 AU	inferior conj	562 Jan 06 j 15:21	18° \mathfrak{Z} 52'51	3°25'09
	561 Jan 28 j 06:35	30° \mathfrak{R} \mathfrak{Z}		minimum elong	562 Jan 06 j 12:59	19° \mathfrak{Z} 00'10	3°24'44
morning rise	561 Jan 28 j 18:58	29° \mathfrak{Z} 33'59		min. Earth dist.	562 Jan 08 j 07:21	16° \mathfrak{Z} 49'07	0.65422 AU
direct	561 Feb 04 j 17:17	26° \mathfrak{Z} 45'27		morning rise	562 Jan 12 j 03:00	12° \mathfrak{Z} 43'10	
	561 Feb 13 j 01:31	0° \approx		direct	562 Jan 18 j 17:27	9° \mathfrak{Z} 51'38	
desc. node	561 Feb 15 j 07:22	1° \approx 45'06		morning max el	562 Jan 31 j 19:25	17° \mathfrak{Z} 31'42	26°48'00
morning max el	561 Feb 18 j 09:33	4° \approx 36'28	27°34'00	desc. node	562 Feb 02 j 04:25	18° \mathfrak{Z} 56'56	
	561 Mar 09 j 14:15	0° \mathfrak{H}			562 Feb 11 j 06:39	0° \approx	
morning set	561 Mar 25 j 06:46	27° \mathfrak{H} 56'53			562 Mar 02 j 11:48	0° \mathfrak{H}	
	561 Mar 26 j 07:29	0° \mathfrak{Y}		morning set	562 Mar 08 j 16:24	11° \mathfrak{H} 22'56	
max. Earth dist.	561 Mar 30 j 08:04	8° \mathfrak{Y} 15'05	1.33297 AU	max. Earth dist.	562 Mar 13 j 01:00	19° \mathfrak{H} 54'38	1.34438 AU
superior conj	561 Apr 02 j 03:36	14° \mathfrak{Y} 12'17	-0°29'52	superior conj	562 Mar 17 j 04:44	28° \mathfrak{H} 24'03	-0°56'55
minimum elong	561 Apr 02 j 05:04	14° \mathfrak{Y} 20'02	0°29'34	minimum elong	562 Mar 17 j 07:30	28° \mathfrak{H} 38'23	0°56'25
asc. node	561 Apr 05 j 00:27	20° \mathfrak{Y} 21'29			562 Mar 17 j 23:10	0° \mathfrak{Y}	
evening rise	561 Apr 09 j 07:21	29° \mathfrak{Y} 30'56		asc. node	562 Mar 22 j 21:29	10° \mathfrak{Y} 21'27	
	561 Apr 09 j 12:53	0° \mathfrak{B}		evening rise	562 Mar 24 j 17:00	14° \mathfrak{Y} 08'48	
	561 Apr 26 j 20:45	0° Π			562 Apr 01 j 20:29	0° \mathfrak{B}	
evening max el	561 May 01 j 10:36	5° Π 05'55	22°44'54	evening max el	562 Apr 13 j 08:16	15° \mathfrak{B} 53'04	21°14'35
desc. node	561 May 14 j 06:36	11° Π 38'56		retrograde	562 Apr 25 j 06:12	21° \mathfrak{B} 40'48	
retrograde	561 May 14 j 15:52	11° Π 39'17		evening set	562 Apr 27 j 13:35	21° \mathfrak{B} 28'30	
evening set	561 May 17 j 21:26	11° Π 16'21		desc. node	562 May 01 j 03:38	20° \mathfrak{B} 25'12	
min. Earth dist.	561 May 25 j 19:02	7° Π 48'43	0.55417 AU	inferior conj	562 May 06 j 22:31	17° \mathfrak{B} 28'59	-1°39'08
inferior conj	561 May 27 j 03:58	7° Π 01'34	-3°24'47	minimum elong	562 May 06 j 17:53	17° \mathfrak{B} 35'30	1°37'32
minimum elong	561 May 26 j 20:30	7° Π 12'17	3°22'48	min. Earth dist.	562 May 07 j 07:45	17° \mathfrak{B} 15'59	0.54965 AU

morning rise	562 May 15 j 22:27	13°♄27'51		inferior conj	563 Apr 16 j 20:42	27°♄58'02	0°20'01
direct	562 May 19 j 03:31	13°♄05'30		minimum elong	563 Apr 16 j 21:35	27°♄56'41	0°19'42
morning max el	562 May 31 j 20:50	19°♄08'35	22°22'19	desc. node	563 Apr 18 j 00:40	27°♄15'31	
	562 Jun 09 j 18:07	0°♄		min. Earth dist.	563 Apr 18 j 21:46	26°♄43'45	0.55477 AU
asc. node	562 Jun 18 j 20:46	15°♄57'35		morning rise	563 Apr 25 j 17:25	23°♄30'39	
morning set	562 Jun 22 j 14:39	23°♄35'03		direct	563 Apr 29 j 18:11	22°♄54'51	
	562 Jun 25 j 15:33	0°♄		morning max el	563 May 13 j 13:14	29°♄45'18	24°03'22
					563 May 13 j 19:24	0°♄	
superior conj	562 Jun 29 j 19:24	8°♄50'55	1°33'16		563 Jun 02 j 22:06	0°♄	
minimum elong	562 Jun 29 j 17:11	8°♄39'13	1°33'02	asc. node	563 Jun 05 j 17:48	5°♄42'11	
max. Earth dist.	562 Jul 02 j 23:14	15°♄27'06	1.34333 AU	morning set	563 Jun 07 j 02:23	8°♄32'13	
evening rise	562 Jul 07 j 17:30	25°♄00'59					
	562 Jul 10 j 07:53	0°♄		superior conj	563 Jun 14 j 03:08	23°♄40'18	1°18'17
desc. node	562 Jul 28 j 03:00	29°♄26'30		minimum elong	563 Jun 14 j 00:40	23°♄26'57	1°17'56
	562 Jul 28 j 12:25	0°♄		max. Earth dist.	563 Jun 16 j 01:23	27°♄48'57	1.33275 AU
evening max el	562 Aug 11 j 12:09	16°♄54'46	27°06'47		563 Jun 17 j 02:00	0°♄	
retrograde	562 Aug 24 j 19:21	24°♄13'35		evening rise	563 Jun 21 j 12:36	9°♄12'16	
evening set	562 Aug 31 j 17:24	21°♄28'14			563 Jul 02 j 17:16	0°♄	
min. Earth dist.	562 Sep 04 j 13:38	17°♄43'32	0.65138 AU	desc. node	563 Jul 15 j 00:01	18°♄36'07	
inferior conj	562 Sep 06 j 15:05	15°♄24'06	-2°38'56		563 Jul 24 j 21:04	0°♄	
minimum elong	562 Sep 06 j 19:06	15°♄12'45	2°37'29	evening max el	563 Jul 24 j 22:58	0°♄04'32	27°25'29
morning rise	562 Sep 12 j 21:33	9°♄49'33		retrograde	563 Aug 07 j 14:41	7°♄23'43	
asc. node	562 Sep 14 j 19:58	9°♄12'42		evening set	563 Aug 14 j 19:07	4°♄44'24	
direct	562 Sep 15 j 15:21	9°♄09'10		min. Earth dist.	563 Aug 18 j 10:16	1°♄33'02	0.63614 AU
morning max el	562 Sep 22 j 04:03	12°♄40'28	18°10'03		563 Aug 19 j 22:59	30°♄	
	562 Oct 04 j 07:39	0°♄		inferior conj	563 Aug 21 j 00:38	28°♄54'04	-3°31'15
morning set	562 Oct 10 j 12:32	10°♄14'46		minimum elong	563 Aug 21 j 05:30	28°♄41'36	3°29'52
	562 Oct 22 j 15:33	0°♄		morning rise	563 Aug 27 j 17:00	23°♄36'10	
desc. node	562 Oct 24 j 02:17	2°♄18'33		direct	563 Aug 30 j 06:10	23°♄04'27	
				asc. node	563 Sep 01 j 17:01	23°♄34'16	
superior conj	562 Oct 24 j 21:15	3°♄33'59	-0°05'15	morning max el	563 Sep 05 j 19:54	26°♄30'14	17°53'58
minimum elong	562 Oct 24 j 20:35	3°♄31'21	0°05'10		563 Sep 08 j 20:09	0°♄	
behind sun begin	562 Oct 24 j 10:11	2°♄50'00		morning set	563 Sep 22 j 13:14	22°♄16'02	
behind sun end	562 Oct 25 j 06:59	4°♄12'39			563 Sep 27 j 00:42	0°♄	
max. Earth dist.	562 Oct 28 j 04:01	8°♄45'37	1.44895 AU				
evening rise	562 Nov 10 j 08:31	29°♄21'20		superior conj	563 Oct 04 j 21:02	13°♄11'51	0°40'01
	562 Nov 10 j 18:29	0°♄		minimum elong	563 Oct 05 j 01:00	13°♄28'15	0°39'29
greatest brilliancy	562 Nov 23 j 00:44	18°♄51'03	-0.7m	desc. node	563 Oct 10 j 23:20	23°♄05'30	
	562 Nov 30 j 19:48	0°♄		max. Earth dist.	563 Oct 10 j 20:56	22°♄55'53	1.44054 AU
evening max el	562 Dec 05 j 05:18	5°♄13'23	19°40'49		563 Oct 15 j 07:58	0°♄	
asc. node	562 Dec 11 j 19:12	9°♄27'18		evening rise	563 Oct 20 j 16:46	8°♄20'53	
retrograde	562 Dec 12 j 14:33	9°♄30'57			563 Nov 04 j 01:42	0°♄	
evening set	562 Dec 16 j 03:00	8°♄18'27		evening max el	563 Nov 18 j 07:03	18°♄42'13	20°43'01
inferior conj	562 Dec 21 j 15:08	2°♄20'20	2°54'52	retrograde	563 Nov 26 j 12:11	23°♄33'35	
minimum elong	562 Dec 21 j 12:23	2°♄29'22	2°54'09	asc. node	563 Nov 28 j 16:14	23°♄06'59	
min. Earth dist.	562 Dec 22 j 17:00	0°♄55'14	0.66543 AU	evening set	563 Nov 30 j 09:55	22°♄06'09	
	562 Dec 23 j 10:06	30°♄		inferior conj	563 Dec 05 j 19:23	15°♄56'41	2°16'03
morning rise	562 Dec 26 j 21:33	26°♄07'46		minimum elong	563 Dec 05 j 16:49	16°♄05'26	2°15'11
direct	563 Jan 01 j 23:43	23°♄25'24		min. Earth dist.	563 Dec 06 j 08:38	15°♄11'24	0.67283 AU
	563 Jan 13 j 12:11	0°♄		morning rise	563 Dec 10 j 23:31	9°♄43'17	
morning max el	563 Jan 14 j 04:34	0°♄40'40	25°37'55	direct	563 Dec 16 j 11:04	7°♄18'36	
desc. node	563 Jan 20 j 01:28	7°♄15'43		morning max el	563 Dec 27 j 12:48	13°♄54'53	24°13'49
	563 Feb 05 j 06:11	0°♄		desc. node	564 Jan 06 j 22:31	26°♄21'46	
morning set	563 Feb 19 j 10:57	23°♄59'34			564 Jan 09 j 14:38	0°♄	
	563 Feb 22 j 16:34	0°♄			564 Jan 29 j 03:15	0°♄	
max. Earth dist.	563 Feb 23 j 05:47	1°♄02'35	1.36033 AU	morning set	564 Feb 01 j 08:35	5°♄30'24	
				max. Earth dist.	564 Feb 05 j 01:57	12°♄05'00	1.38004 AU
superior conj	563 Feb 28 j 21:42	12°♄06'33	-1°22'25				
minimum elong	563 Mar 01 j 01:27	12°♄25'19	1°21'52	superior conj	564 Feb 12 j 03:04	25°♄10'34	-1°44'08
evening rise	563 Mar 08 j 22:38	28°♄28'35		minimum elong	564 Feb 12 j 06:59	25°♄29'20	1°43'44
asc. node	563 Mar 09 j 18:31	0°♄09'18			564 Feb 14 j 14:58	0°♄	
	563 Mar 09 j 16:40	0°♄		evening rise	564 Feb 20 j 21:50	12°♄23'31	
evening max el	563 Mar 26 j 17:03	27°♄15'09	19°59'00	asc. node	564 Feb 24 j 15:33	19°♄39'50	
	563 Mar 30 j 03:06	0°♄			564 Mar 01 j 11:01	0°♄	
retrograde	563 Apr 05 j 21:47	2°♄09'13		evening max el	564 Mar 08 j 12:50	9°♄15'42	19°02'17
evening set	563 Apr 07 j 23:37	1°♄57'56		retrograde	564 Mar 17 j 02:57	13°♄24'31	
	563 Apr 13 j 07:55	30°♄		evening set	564 Mar 19 j 08:30	13°♄08'54	

inferior conj	564 Mar 27 j 10:50	8° Υ 54'57	2°00'25	minimum elong	565 Mar 09 j 01:44	20° Υ 23'35	3°06'03
minimum elong	564 Mar 27 j 14:53	8° Υ 47'53	1°59'13	min. Earth dist.	565 Mar 12 j 08:28	17° Υ 44'26	0.58751 AU
min. Earth dist.	564 Mar 30 j 13:24	6° Υ 45'59	0.56836 AU	morning rise	565 Mar 16 j 10:40	15° Υ 02'04	
desc. node	564 Apr 03 j 21:40	4° Υ 16'22		desc. node	565 Mar 21 j 18:42	13° Υ 25'28	
morning rise	564 Apr 04 j 18:15	3° Υ 54'29		direct	565 Mar 22 j 13:55	13° Υ 23'48	
direct	564 Apr 09 j 21:28	2° Υ 52'17		morning max el	565 Apr 05 j 22:18	21° Υ 04'21	26°55'42
morning max el	564 Apr 24 j 03:50	10° Υ 14'34	25°39'39		565 Apr 13 j 16:13	0° Υ	
	564 May 09 j 03:45	0° Υ			565 May 01 j 21:35	0° Υ	
morning set	564 May 21 j 14:06	23° Υ 29'33		morning set	565 May 06 j 00:05	8° Υ 20'17	
asc. node	564 May 22 j 14:50	25° Υ 40'40		asc. node	565 May 09 j 11:52	15° Υ 47'06	
	564 May 24 j 15:02	0° Υ					
superior conj	564 May 28 j 13:48	8° Υ 37'44	0°59'16	superior conj	565 May 13 j 01:32	23° Υ 35'48	0°37'00
minimum elong	564 May 28 j 11:35	8° Υ 25'34	0°58'52	minimum elong	565 May 12 j 23:59	23° Υ 27'14	0°36'41
max. Earth dist.	564 May 29 j 10:33	10° Υ 31'10	1.32603 AU	max. Earth dist.	565 May 12 j 23:02	23° Υ 22'03	1.32302 AU
evening rise	564 Jun 04 j 15:28	23° Υ 46'39		evening rise	565 May 15 j 23:35	0° Υ	
	564 Jun 07 j 17:13	0° Υ			565 May 19 j 23:22	8° Υ 34'04	
	564 Jun 25 j 12:05	0° Υ			565 May 31 j 03:27	0° Υ	
desc. node	564 Jun 30 j 21:01	6° Υ 55'37		desc. node	565 Jun 17 j 18:01	24° Υ 03'06	
evening max el	564 Jul 06 j 06:24	12° Υ 42'26	27°12'40	evening max el	565 Jun 18 j 07:37	24° Υ 35'58	26°26'48
retrograde	564 Jul 20 j 03:09	19° Υ 58'35		retrograde	565 Jun 25 j 13:10	0° Υ	
evening set	564 Jul 27 j 05:57	17° Υ 38'27		evening set	565 Jul 02 j 07:27	1° Υ 49'17	
min. Earth dist.	564 Jul 30 j 20:32	14° Υ 51'45	0.61780 AU		565 Jul 08 j 21:14	0° Υ 00'57	
inferior conj	564 Aug 02 j 22:22	12° Υ 05'05	-4°15'17	min. Earth dist.	565 Jul 08 j 21:57	30° Υ 00'00	
minimum elong	564 Aug 03 j 02:58	11° Υ 54'39	4°14'25	inferior conj	565 Jul 12 j 20:41	27° Υ 24'05	0.59740 AU
morning rise	564 Aug 10 j 01:28	7° Υ 07'06		minimum elong	565 Jul 16 j 04:39	24° Υ 46'53	-4°43'50
direct	564 Aug 12 j 12:39	6° Υ 41'10		morning rise	565 Jul 16 j 07:03	24° Υ 42'07	4°43'39
asc. node	564 Aug 18 j 14:03	9° Υ 22'12		direct	565 Jul 23 j 18:54	20° Υ 11'28	
morning max el	564 Aug 19 j 10:33	10° Υ 09'33	17°56'15	morning max el	565 Jul 26 j 06:24	19° Υ 49'21	
	564 Sep 01 j 12:26	0° Υ		asc. node	565 Aug 02 j 20:56	23° Υ 29'51	18°18'07
morning set	564 Sep 04 j 09:45	5° Υ 14'23		asc. node	565 Aug 05 j 11:06	26° Υ 21'02	
					565 Aug 08 j 03:11	0° Υ	
superior conj	564 Sep 15 j 00:07	24° Υ 10'32	1°14'01	morning set	565 Aug 18 j 20:32	18° Υ 53'56	
minimum elong	564 Sep 15 j 04:54	24° Υ 31'13	1°13'29		565 Aug 24 j 17:13	0° Υ	
	564 Sep 18 j 09:48	0° Υ		superior conj	565 Aug 28 j 03:57	6° Υ 22'39	1°35'18
max. Earth dist.	564 Sep 22 j 09:53	6° Υ 40'25	1.42614 AU	minimum elong	565 Aug 28 j 07:13	6° Υ 37'32	1°35'03
desc. node	564 Sep 26 j 20:22	13° Υ 51'45		max. Earth dist.	565 Sep 04 j 17:21	19° Υ 44'36	1.40753 AU
evening rise	564 Sep 29 j 04:19	17° Υ 33'37		evening rise	565 Sep 09 j 10:26	27° Υ 38'26	
	564 Oct 07 j 06:17	0° Υ			565 Sep 10 j 21:07	0° Υ	
	564 Oct 29 j 01:58	0° Υ		desc. node	565 Sep 13 j 17:23	4° Υ 33'41	
evening max el	564 Oct 31 j 03:08	2° Υ 11'58	21°56'07		565 Sep 30 j 21:46	0° Υ	
retrograde	564 Nov 09 j 08:38	7° Υ 41'14		evening max el	565 Oct 13 j 18:16	15° Υ 43'20	23°15'24
evening set	564 Nov 13 j 17:38	5° Υ 57'06		retrograde	565 Oct 24 j 02:28	21° Υ 50'52	
asc. node	564 Nov 14 j 13:16	5° Υ 14'04		evening set	565 Oct 29 j 00:30	19° Υ 48'59	
	564 Nov 18 j 20:06	30° Υ 00'00		asc. node	565 Oct 29 j 00:30	16° Υ 05'22	
inferior conj	564 Nov 19 j 02:01	29° Υ 39'34	1°30'39	inferior conj	565 Nov 01 j 10:19	13° Υ 27'03	0°40'12
minimum elong	564 Nov 19 j 00:05	29° Υ 46'14	1°29'53	minimum elong	565 Nov 03 j 09:14	13° Υ 30'16	0°39'48
min. Earth dist.	564 Nov 19 j 03:56	29° Υ 32'54	0.67661 AU	min. Earth dist.	565 Nov 03 j 08:18	13° Υ 30'16	0°39'48
morning rise	564 Nov 24 j 06:23	23° Υ 27'22		morning rise	565 Nov 03 j 00:35	13° Υ 56'48	0.67698 AU
direct	564 Nov 29 j 02:45	21° Υ 24'43		morning rise	565 Nov 08 j 16:03	7° Υ 18'11	
morning max el	564 Nov 29 j 02:45	21° Υ 24'43		direct	565 Nov 12 j 21:53	5° Υ 38'18	
	564 Dec 08 j 22:45	27° Υ 14'24	22°45'48	morning max el	565 Nov 21 j 13:59	10° Υ 42'33	21°22'18
	564 Dec 11 j 12:27	0° Υ			565 Dec 06 j 12:42	0° Υ	
desc. node	564 Dec 23 j 19:34	16° Υ 01'45		desc. node	565 Dec 10 j 16:37	6° Υ 06'01	
	565 Jan 02 j 06:21	0° Υ		morning set	565 Dec 22 j 17:13	24° Υ 30'29	
morning set	565 Jan 12 j 03:13	15° Υ 40'30			565 Dec 26 j 03:59	0° Υ	
max. Earth dist.	565 Jan 16 j 21:47	23° Υ 41'13	1.40143 AU	max. Earth dist.	565 Dec 29 j 23:23	6° Υ 11'30	1.42150 AU
	565 Jan 20 j 13:04	0° Υ					
superior conj	565 Jan 24 j 16:25	7° Υ 24'52	-1°58'52	superior conj	566 Jan 06 j 08:25	18° Υ 36'38	-2°02'27
minimum elong	565 Jan 24 j 18:56	7° Υ 36'21	1°58'45	minimum elong	566 Jan 06 j 07:19	18° Υ 31'53	2°02'26
evening rise	565 Feb 03 j 11:41	25° Υ 46'28			566 Jan 12 j 19:48	0° Υ	
	565 Feb 05 j 17:16	0° Υ		evening rise	566 Jan 17 j 12:35	8° Υ 29'29	
asc. node	565 Feb 10 j 12:34	8° Υ 46'53		asc. node	566 Jan 28 j 09:37	27° Υ 23'06	
evening max el	565 Feb 19 j 17:10	21° Υ 48'43	18°25'31		566 Jan 30 j 04:14	0° Υ	
retrograde	565 Feb 27 j 03:15	25° Υ 28'14		evening max el	566 Feb 03 j 03:02	4° Υ 46'14	18°08'45
evening set	565 Mar 01 j 14:13	25° Υ 05'21		retrograde	566 Feb 09 j 20:49	8° Υ 12'24	
inferior conj	565 Mar 08 j 22:00	20° Υ 31'13	3°06'48	evening set	566 Feb 12 j 12:38	7° Υ 40'41	
				inferior conj	566 Feb 19 j 05:08	2° Υ 45'30	3°40'18

minimum elong	566 Feb 19 j 06:51	2° H 41'25	3°40'09		567 Jan 05 j 09:55	0° \approx	
	566 Feb 22 j 03:26	30° R \approx		asc. node	567 Jan 15 j 06:40	15° \approx 18'05	
min. Earth dist.	566 Feb 22 j 10:09	29° \approx 44'50	0.60867 AU	evening max el	567 Jan 17 j 15:23	17° \approx 59'19	18°11'26
morning rise	566 Feb 25 j 23:21	26° \approx 56'53		retrograde	567 Jan 24 j 03:02	21° \approx 25'48	
direct	566 Mar 04 j 17:56	24° \approx 42'28		evening set	567 Jan 26 j 23:31	20° \approx 44'10	
desc. node	566 Mar 08 j 15:45	25° \approx 23'53		inferior conj	567 Feb 02 j 04:22	15° \approx 28'53	3°48'15
	566 Mar 16 j 04:27	0° H		minimum elong	567 Feb 02 j 04:01	15° \approx 29'51	3°48'15
morning max el	566 Mar 18 j 23:12	2° H 33'07	27°39'28	min. Earth dist.	567 Feb 04 j 20:37	12° \approx 37'52	0.62884 AU
	566 Apr 08 j 01:20	0° Y		morning rise	567 Feb 08 j 07:32	9° \approx 28'46	
morning set	566 Apr 20 j 06:33	22° Y 58'21		direct	567 Feb 15 j 07:12	6° \approx 48'10	
	566 Apr 23 j 14:47	0° B		desc. node	567 Feb 23 j 12:48	9° \approx 51'38	
asc. node	566 Apr 26 j 08:55	5° B 57'20		morning max el	567 Mar 01 j 05:27	14° \approx 41'57	27°46'12
max. Earth dist.	566 Apr 26 j 10:57	6° B 08'25	1.32374 AU		567 Mar 13 j 16:10	0° H	
					567 Mar 31 j 14:31	0° Y	
superior conj	566 Apr 27 j 12:42	8° B 29'06	0°12'14	morning set	567 Apr 04 j 07:17	7° Y 16'02	
minimum elong	566 Apr 27 j 12:08	8° B 26'03	0°12'07	max. Earth dist.	567 Apr 09 j 18:19	18° Y 36'30	1.32835 AU
behind sun begin	566 Apr 27 j 08:51	8° B 08'05					
behind sun end	566 Apr 27 j 15:25	8° B 44'00		superior conj	567 Apr 11 j 21:33	23° Y 11'33	-0°14'15
evening rise	566 May 04 j 10:13	23° B 27'21		minimum elong	567 Apr 11 j 22:14	23° Y 15'15	0°14'06
	566 May 07 j 14:00	0° II		behind sun begin	567 Apr 11 j 19:49	23° Y 02'09	
	566 May 25 j 20:23	0° B		behind sun end	567 Apr 12 j 00:40	23° Y 28'20	
evening max el	566 May 31 j 01:45	5° B 43'40	25°12'11	asc. node	567 Apr 13 j 05:59	26° Y 07'00	
desc. node	566 Jun 04 j 15:01	9° B 29'24			567 Apr 15 j 00:57	0° B	
retrograde	566 Jun 14 j 02:08	12° B 52'02		evening rise	567 Apr 18 j 22:03	8° B 19'48	
evening set	566 Jun 19 j 13:28	11° B 42'41			567 Apr 30 j 06:22	0° II	
min. Earth dist.	566 Jun 24 j 13:28	8° B 57'10	0.57724 AU	evening max el	567 May 12 j 16:08	16° II 21'24	23°40'05
inferior conj	566 Jun 27 j 16:06	6° B 49'54	-4°45'47	desc. node	567 May 22 j 12:01	22° II 38'58	
minimum elong	566 Jun 27 j 14:09	6° B 53'15	4°45'40	retrograde	567 May 26 j 08:54	23° II 13'02	
morning rise	566 Jul 05 j 17:31	2° B 36'45		evening set	567 May 30 j 09:01	22° II 37'41	
direct	566 Jul 08 j 06:56	2° B 17'14		min. Earth dist.	567 Jun 06 j 02:46	19° II 28'34	0.56063 AU
morning max el	566 Jul 17 j 00:01	6° B 22'10	19°00'39	inferior conj	567 Jun 08 j 07:27	18° II 09'12	-4°07'54
asc. node	566 Jul 23 j 08:09	14° B 15'53		minimum elong	567 Jun 08 j 00:58	18° II 19'02	4°06'39
	566 Aug 01 j 04:01	0° Ω		morning rise	567 Jun 16 j 19:41	14° II 12'04	
morning set	566 Aug 02 j 17:26	3° Ω 03'27		direct	567 Jun 19 j 12:10	13° II 53'54	
				morning max el	567 Jun 29 j 17:09	18° II 37'24	20°04'18
superior conj	566 Aug 11 j 02:56	19° Ω 32'14	1°45'18		567 Jul 08 j 11:58	0° B	
minimum elong	566 Aug 11 j 04:06	19° Ω 37'51	1°45'15	asc. node	567 Jul 10 j 05:13	2° B 54'02	
	566 Aug 16 j 17:05	0° H		morning set	567 Jul 17 j 21:21	17° B 34'59	
max. Earth dist.	566 Aug 17 j 20:38	2° H 04'40	1.38721 AU		567 Jul 23 j 23:19	0° Ω	
evening rise	566 Aug 21 j 17:08	8° H 52'31					
desc. node	566 Aug 31 j 14:23	25° H 07'17		superior conj	567 Jul 25 j 15:49	3° Ω 24'21	1°46'07
	566 Sep 03 j 18:32	0° $\underline{\text{A}}$		minimum elong	567 Jul 25 j 15:12	3° Ω 21'17	1°46'06
evening max el	566 Sep 26 j 06:30	29° $\underline{\text{A}}$ 17'55	24°34'44	max. Earth dist.	567 Jul 31 j 01:16	13° Ω 57'54	1.36780 AU
	566 Sep 26 j 23:50	0° M		evening rise	567 Aug 03 j 22:44	21° Ω 12'55	
retrograde	566 Oct 07 j 16:37	5° M 58'17			567 Aug 08 j 22:05	0° H	
evening set	566 Oct 13 j 04:50	3° M 39'10		desc. node	567 Aug 18 j 11:24	15° H 27'49	
	566 Oct 16 j 13:40	30° R $\underline{\text{A}}$			567 Aug 28 j 16:06	0° $\underline{\text{A}}$	
min. Earth dist.	566 Oct 17 j 20:10	28° $\underline{\text{A}}$ 20'37	0.67414 AU	evening max el	567 Sep 08 j 18:12	12° $\underline{\text{A}}$ 56'13	25°46'48
inferior conj	566 Oct 18 j 15:17	27° $\underline{\text{A}}$ 16'49	-0°13'54	retrograde	567 Sep 21 j 02:12	19° $\underline{\text{A}}$ 59'19	
minimum elong	566 Oct 18 j 15:37	27° $\underline{\text{A}}$ 15'41	0°13'45	evening set	567 Sep 27 j 04:50	17° $\underline{\text{A}}$ 25'31	
transit middle	566 Oct 18 j 15:37	27° $\underline{\text{A}}$ 15'41	0°13'45	min. Earth dist.	567 Oct 01 j 12:21	12° $\underline{\text{A}}$ 42'33	0.66806 AU
transit begin	566 Oct 18 j 14:10	27° $\underline{\text{A}}$ 20'34		inferior conj	567 Oct 02 j 18:24	11° $\underline{\text{A}}$ 07'04	-1°10'09
transit end	566 Oct 18 j 17:05	27° $\underline{\text{A}}$ 10'48		minimum elong	567 Oct 02 j 20:12	11° $\underline{\text{A}}$ 01'22	1°09'23
asc. node	566 Oct 19 j 07:23	26° $\underline{\text{A}}$ 23'19		asc. node	567 Oct 06 j 04:26	7° $\underline{\text{A}}$ 06'22	
morning rise	566 Oct 24 j 02:30	21° $\underline{\text{A}}$ 13'40		morning rise	567 Oct 08 j 11:49	5° $\underline{\text{A}}$ 12'22	
direct	566 Oct 27 j 19:27	19° $\underline{\text{A}}$ 54'45		direct	567 Oct 11 j 17:59	4° $\underline{\text{A}}$ 11'13	
morning max el	566 Nov 04 j 12:35	24° $\underline{\text{A}}$ 20'44	20°09'13	morning max el	567 Oct 18 j 18:40	8° $\underline{\text{A}}$ 08'30	19°10'15
	566 Nov 09 j 09:08	0° M			567 Nov 03 j 12:34	0° M	
desc. node	566 Nov 27 j 13:39	26° M 27'10		morning set	567 Nov 10 j 18:22	11° M 15'49	
	566 Nov 29 j 21:07	0° X		desc. node	567 Nov 14 j 10:43	17° M 00'47	
morning set	566 Dec 01 j 14:01	2° X 37'47			567 Nov 22 j 17:41	0° X	
max. Earth dist.	566 Dec 12 j 08:11	19° X 31'57	1.43760 AU	max. Earth dist.	567 Nov 24 j 23:16	3° X 30'56	1.44775 AU
superior conj	566 Dec 17 j 22:20	28° X 35'07	-1°50'09	superior conj	567 Nov 27 j 11:15	7° X 27'56	-1°19'17
minimum elong	566 Dec 17 j 16:11	28° X 09'56	1°49'45	minimum elong	567 Nov 27 j 02:49	6° X 54'34	1°18'22
	566 Dec 18 j 19:00	0° B			567 Dec 11 j 10:43	0° B	
evening rise	566 Dec 30 j 20:08	20° B 22'48		evening rise	567 Dec 12 j 06:14	1° B 20'09	

	567 Dec 30 j 21:21	0°♊		max. Earth dist.	568 Nov 06 j 17:59	17°♎50'30	1.45071 AU
evening max el	568 Jan 01 j 03:32	1°♊22'00	18°32'41		568 Nov 14 j 11:51	0°♊	
asc. node	568 Jan 02 j 03:43	2°♊20'07		evening rise	568 Nov 21 j 16:39	11°♊19'39	
retrograde	568 Jan 07 j 17:40	5°♊00'24		greatest brilliancy	568 Dec 01 j 14:07	26°♊53'16	-0.8m
evening set	568 Jan 10 j 19:23	4°♊07'47			568 Dec 03 j 14:31	0°♊	
	568 Jan 15 j 10:11	30°♋♊		evening max el	568 Dec 14 j 13:00	14°♊49'14	19°11'21
inferior conj	568 Jan 16 j 15:46	28°♊33'59	3°37'36	asc. node	568 Dec 19 j 00:45	18°♊14'59	
minimum elong	568 Jan 16 j 13:56	28°♊39'25	3°37'23	retrograde	568 Dec 21 j 13:12	18°♊49'47	
min. Earth dist.	568 Jan 18 j 16:37	26°♊10'00	0.64612 AU	evening set	568 Dec 24 j 21:21	17°♊44'50	
morning rise	568 Jan 22 j 07:59	22°♊27'08		inferior conj	568 Dec 30 j 11:51	11°♊54'44	3°13'30
direct	568 Jan 29 j 03:52	19°♊35'18		minimum elong	568 Dec 30 j 09:15	12°♊03'00	3°12'56
desc. node	568 Feb 10 j 09:52	26°♊13'15		min. Earth dist.	568 Dec 31 j 21:38	10°♊07'14	0.65956 AU
morning max el	568 Feb 11 j 14:34	27°♊23'09	27°17'45	morning rise	569 Jan 04 j 20:55	5°♊43'51	
	568 Feb 14 j 02:07	0°♊		direct	569 Jan 11 j 06:40	2°♊55'00	
	568 Mar 06 j 08:13	0°♋		morning max el	569 Jan 24 j 00:09	10°♊25'22	26°20'31
morning set	568 Mar 17 j 23:27	21°♋04'09		desc. node	569 Jan 27 j 06:57	13°♊56'44	
	568 Mar 22 j 10:28	0°♌			569 Feb 08 j 13:20	0°♊	
max. Earth dist.	568 Mar 22 j 17:16	0°♌34'52	1.33725 AU		569 Feb 26 j 20:58	0°♋	
				morning set	569 Mar 01 j 03:18	4°♋11'21	
superior conj	568 Mar 26 j 02:11	7°♌36'57	-0°41'26	max. Earth dist.	569 Mar 05 j 05:07	12°♋00'29	1.35067 AU
minimum elong	568 Mar 26 j 04:12	7°♌47'37	0°41'01				
asc. node	568 Mar 30 j 03:02	16°♌11'58		superior conj	569 Mar 10 j 00:15	21°♋38'02	-1°08'02
evening rise	568 Apr 02 j 09:03	23°♌05'05		minimum elong	569 Mar 10 j 03:29	21°♋54'37	1°07'29
	568 Apr 05 j 17:56	0°♍			569 Mar 14 j 01:17	0°♌	
evening max el	568 Apr 23 j 09:20	26°♍57'25	22°05'13	asc. node	569 Mar 17 j 00:04	6°♌07'56	
	568 Apr 27 j 00:43	0°♍		evening rise	569 Mar 17 j 17:18	7°♌36'53	
retrograde	568 May 06 j 03:03	3°♍12'42			569 Mar 29 j 23:25	0°♍	
desc. node	568 May 08 j 09:04	3°♍01'24		evening max el	569 Apr 05 j 11:32	7°♍58'34	20°40'16
evening set	568 May 08 j 21:00	2°♍55'58		retrograde	569 Apr 16 j 16:00	13°♍23'10	
	568 May 16 j 04:10	30°♎♍		evening set	569 Apr 18 j 19:36	13°♍11'59	
min. Earth dist.	568 May 17 j 15:13	29°♍11'28	0.55106 AU	desc. node	569 Apr 25 j 06:05	10°♍47'30	
inferior conj	568 May 18 j 06:36	28°♍49'51	-2°43'49	inferior conj	569 Apr 28 j 00:53	9°♍14'19	-0°48'10
minimum elong	568 May 17 j 23:40	28°♍59'36	2°41'41	minimum elong	569 Apr 27 j 22:36	9°♍17'36	0°47'19
morning rise	568 May 27 j 03:49	24°♍55'32		min. Earth dist.	569 Apr 29 j 04:08	8°♍35'13	0.55069 AU
direct	568 May 30 j 02:34	24°♍36'04		morning rise	569 May 07 j 00:50	5°♍04'15	
	568 Jun 10 j 19:00	0°♍		direct	569 May 10 j 13:16	4°♍37'35	
morning max el	568 Jun 10 j 22:54	0°♍09'01	21°27'31	morning max el	569 May 23 j 18:57	11°♍01'31	23°04'57
asc. node	568 Jun 26 j 02:17	22°♍04'27			569 Jun 06 j 19:18	0°♍	
	568 Jun 30 j 02:22	0°♎		asc. node	569 Jun 12 j 23:20	11°♍38'59	
morning set	568 Jul 01 j 05:48	2°♎21'09		morning set	569 Jun 15 j 16:50	17°♍16'20	
					569 Jun 21 j 15:54	0°♎	
superior conj	568 Jul 08 j 14:22	17°♎45'54	1°39'40				
minimum elong	568 Jul 08 j 12:34	17°♎36'30	1°39'32	superior conj	569 Jun 22 j 19:29	2°♎27'38	1°27'27
max. Earth dist.	568 Jul 12 j 13:03	25°♎50'20	1.35122 AU	minimum elong	569 Jun 22 j 17:05	2°♎14'53	1°27'11
	568 Jul 14 j 15:21	0°♏		max. Earth dist.	569 Jun 25 j 10:21	8°♎00'38	1.33838 AU
evening rise	568 Jul 16 j 22:25	4°♏26'17		evening rise	569 Jun 30 j 11:34	18°♎19'48	
	568 Jul 31 j 17:37	0°♏			569 Jul 06 j 15:05	0°♏	
desc. node	568 Aug 04 j 08:26	5°♏28'12		desc. node	569 Jul 22 j 05:25	24°♏59'39	
evening max el	568 Aug 21 j 06:18	26°♏31'52	26°43'50		569 Jul 25 j 23:20	0°♏	
	568 Aug 25 j 06:30	0°♐		evening max el	569 Aug 03 j 18:05	9°♏54'29	27°18'17
retrograde	568 Sep 03 j 06:29	3°♐46'48		retrograde	569 Aug 17 j 05:01	17°♏13'15	
evening set	568 Sep 09 j 22:20	1°♐03'33		evening set	569 Aug 24 j 06:43	14°♏28'59	
	568 Sep 11 j 02:49	30°♑♐		min. Earth dist.	569 Aug 28 j 00:31	10°♏59'16	0.64538 AU
min. Earth dist.	568 Sep 13 j 22:34	26°♑57'37	0.65852 AU	inferior conj	569 Aug 30 j 07:28	8°♑30'36	-3°01'45
inferior conj	568 Sep 15 j 16:34	24°♑53'14	-2°06'52	minimum elong	569 Aug 30 j 11:57	8°♑18'28	3°00'18
minimum elong	568 Sep 15 j 19:50	24°♑43'34	2°05'37	morning rise	569 Sep 05 j 18:01	3°♑02'45	
morning rise	568 Sep 21 j 17:50	19°♑10'15		direct	569 Sep 08 j 09:39	2°♑26'18	
asc. node	568 Sep 22 j 01:29	19°♑00'33		asc. node	569 Sep 08 j 22:32	2°♑27'48	
direct	568 Sep 24 j 15:32	18°♑23'11		morning max el	569 Sep 14 j 21:46	5°♑53'53	18°01'03
morning max el	568 Oct 01 j 06:32	22°♑01'13	18°27'12		569 Sep 30 j 22:30	0°♑	
	568 Oct 07 j 13:37	0°♑		morning set	569 Oct 02 j 10:54	2°♑33'40	
morning set	568 Oct 21 j 00:27	21°♑13'19					
	568 Oct 26 j 11:35	0°♒		superior conj	569 Oct 15 j 22:23	24°♑50'02	0°15'02
desc. node	568 Oct 31 j 07:45	7°♒42'14		minimum elong	569 Oct 16 j 00:09	24°♑57'09	0°14'47
				behind sun begin	569 Oct 15 j 19:50	24°♑39'46	
superior conj	568 Nov 05 j 11:59	15°♒52'31	-0°33'44	behind sun end	569 Oct 16 j 04:28	25°♑14'30	
minimum elong	568 Nov 05 j 07:34	15°♒35'09	0°33'10	desc. node	569 Oct 18 j 04:46	28°♑28'00	

	569 Oct 19 j 03:51	0°♍		superior conj	570 Sep 26 j 09:40	5°♌02'26	0°56'00
max. Earth dist.	569 Oct 20 j 12:50	2°♍10'55	1.44623 AU	minimum elong	570 Sep 26 j 14:24	5°♌22'20	0°55'24
evening rise	569 Nov 01 j 07:06	20°♍32'33		max. Earth dist.	570 Oct 03 j 04:14	16°♌12'05	1.43498 AU
	569 Nov 07 j 11:01	0°♌		desc. node	570 Oct 05 j 01:47	19°♌15'10	
greatest brilliancy	569 Nov 15 j 09:00	11°♌55'27	-0.6m	evening rise	570 Oct 11 j 14:27	29°♌31'48	
evening max el	569 Nov 27 j 17:53	28°♌17'41	20°05'39		570 Oct 11 j 21:43	0°♍	
	569 Nov 29 j 12:52	0°♌			570 Nov 01 j 04:41	0°♌	
retrograde	569 Dec 05 j 10:48	2°♌48'50		evening max el	570 Nov 10 j 17:05	11°♌46'40	21°13'00
asc. node	569 Dec 05 j 21:47	2°♌47'39		retrograde	570 Nov 19 j 08:18	16°♌54'29	
evening set	569 Dec 09 j 03:02	1°♌30'01		asc. node	570 Nov 22 j 18:49	15°♌48'10	
	569 Dec 10 j 20:23	30°♌♌		evening set	570 Nov 23 j 10:32	15°♌20'06	
inferior conj	569 Dec 14 j 13:47	25°♌26'28	2°39'21	inferior conj	570 Nov 28 j 19:19	9°♌06'30	1°57'32
minimum elong	569 Dec 14 j 11:04	25°♌35'37	2°38'31	minimum elong	570 Nov 28 j 16:58	9°♌14'35	1°56'41
min. Earth dist.	569 Dec 15 j 10:01	24°♌18'41	0.66903 AU	min. Earth dist.	570 Nov 29 j 03:35	8°♌37'59	0.67478 AU
morning rise	569 Dec 19 j 18:55	19°♌13'24		morning rise	570 Dec 03 j 23:15	2°♌53'13	
direct	569 Dec 25 j 14:56	16°♌38'08		direct	570 Dec 09 j 04:12	0°♌37'44	
morning max el	570 Jan 06 j 08:55	23°♌37'56	25°03'22	morning max el	570 Dec 19 j 17:40	6°♌55'21	23°36'25
	570 Jan 12 j 01:19	0°♌		desc. node	571 Jan 01 j 01:02	22°♌00'02	
desc. node	570 Jan 14 j 03:59	2°♌37'47			571 Jan 06 j 16:15	0°♌	
	570 Feb 01 j 22:43	0°♌		morning set	571 Jan 24 j 00:38	27°♌21'14	
morning set	570 Feb 11 j 13:45	16°♌22'19			571 Jan 25 j 13:49	0°♌	
max. Earth dist.	570 Feb 15 j 06:00	23°♌04'21	1.36839 AU	max. Earth dist.	571 Jan 28 j 00:58	4°♌17'10	1.38908 AU
	570 Feb 18 j 21:56	0°♌					
				superior conj	571 Feb 04 j 11:53	17°♌50'07	-1°51'27
superior conj	570 Feb 21 j 12:44	5°♌05'34	-1°32'15	minimum elong	571 Feb 04 j 15:27	18°♌06'51	1°51'11
minimum elong	570 Feb 21 j 16:42	5°♌25'02	1°31'45		571 Feb 10 j 20:20	0°♌	
evening rise	570 Mar 01 j 20:33	21°♌47'30		evening rise	571 Feb 13 j 16:13	5°♌30'15	
asc. node	570 Mar 03 j 21:05	25°♌49'26		asc. node	571 Feb 18 j 18:07	15°♌11'10	
	570 Mar 06 j 00:35	0°♌			571 Feb 28 j 06:30	0°♌	
evening max el	570 Mar 19 j 01:04	19°♌36'57	19°32'22	evening max el	571 Mar 02 j 00:49	1°♌52'28	18°44'08
retrograde	570 Mar 28 j 12:35	24°♌10'37		retrograde	571 Mar 10 j 01:48	5°♌46'57	
evening set	570 Mar 30 j 15:19	23°♌58'00		evening set	571 Mar 12 j 09:28	5°♌28'40	
inferior conj	570 Apr 08 j 04:43	19°♌52'54	1°06'18	inferior conj	571 Mar 20 j 03:40	1°♌06'41	2°32'54
minimum elong	570 Apr 08 j 07:25	19°♌48'35	1°05'23	minimum elong	571 Mar 20 j 07:56	0°♌58'44	2°31'47
min. Earth dist.	570 Apr 10 j 18:32	18°♌14'14	0.55965 AU		571 Mar 21 j 15:15	30°♌♌	
desc. node	570 Apr 12 j 03:07	17°♌24'59		min. Earth dist.	571 Mar 23 j 11:40	28°♌38'42	0.57605 AU
morning rise	570 Apr 16 j 20:52	15°♌11'34		morning rise	571 Mar 28 j 03:22	25°♌52'31	
direct	570 Apr 21 j 08:16	14°♌26'26		desc. node	571 Mar 30 j 00:10	25°♌09'59	
morning max el	570 May 05 j 09:58	21°♌32'08	24°45'53	direct	571 Apr 02 j 17:25	24°♌35'35	
	570 May 12 j 18:44	0°♌			571 Apr 14 j 17:30	0°♌	
	570 May 30 j 03:05	0°♌		morning max el	571 Apr 17 j 01:51	2°♌07'50	26°15'13
asc. node	570 May 30 j 20:22	1°♌30'15			571 May 06 j 21:52	0°♌	
morning set	570 May 31 j 04:46	2°♌14'23		morning set	571 May 15 j 15:56	17°♌09'37	
				asc. node	571 May 17 j 17:24	21°♌32'42	
superior conj	570 Jun 07 j 04:42	17°♌21'13	1°10'39		571 May 21 j 14:34	0°♌	
minimum elong	570 Jun 07 j 02:16	17°♌08'03	1°10'17				
max. Earth dist.	570 Jun 08 j 15:52	20°♌31'58	1.32941 AU	superior conj	571 May 22 j 16:03	2°♌19'50	0°50'11
	570 Jun 13 j 02:53	0°♌		minimum elong	571 May 22 j 14:03	2°♌08'55	0°49'47
evening rise	570 Jun 14 j 10:18	2°♌41'43		max. Earth dist.	571 May 23 j 02:40	3°♌18'10	1.32428 AU
	570 Jun 29 j 10:53	0°♌		evening rise	571 May 29 j 15:36	17°♌22'29	
desc. node	570 Jul 09 j 02:26	13°♌50'04			571 Jun 04 j 23:57	0°♌	
evening max el	570 Jul 17 j 03:33	22°♌51'21	27°24'00		571 Jun 24 j 11:39	0°♌	
	570 Jul 29 j 00:30	0°♌		desc. node	571 Jun 25 j 23:26	1°♌42'03	
retrograde	570 Jul 30 j 21:33	0°♌09'46		evening max el	571 Jun 29 j 08:24	5°♌10'40	26°57'05
	570 Aug 01 j 17:40	30°♌♌		retrograde	571 Jul 13 j 07:03	12°♌26'33	
evening set	570 Aug 07 j 02:38	27°♌36'31		evening set	571 Jul 20 j 05:45	10°♌18'27	
min. Earth dist.	570 Aug 10 j 16:37	24°♌37'26	0.62867 AU	min. Earth dist.	571 Jul 23 j 22:29	7°♌38'02	0.60918 AU
inferior conj	570 Aug 13 j 12:21	21°♌53'12	-3°51'19	inferior conj	571 Jul 27 j 03:56	4°♌52'44	-4°29'58
minimum elong	570 Aug 13 j 17:18	21°♌41'10	3°50'06	minimum elong	571 Jul 27 j 07:53	4°♌44'16	4°29'23
morning rise	570 Aug 20 j 09:16	16°♌43'45		morning rise	571 Aug 03 j 11:48	0°♌04'21	
direct	570 Aug 22 j 21:17	16°♌14'50			571 Aug 03 j 17:31	30°♌♌	
asc. node	570 Aug 26 j 19:35	17°♌27'44		direct	571 Aug 05 j 22:41	29°♌40'25	
morning max el	570 Aug 29 j 13:32	19°♌40'27	17°52'42		571 Aug 08 j 02:49	0°♌	
	570 Sep 06 j 04:20	0°♌		morning max el	571 Aug 13 j 02:47	3°♌12'56	18°03'07
morning set	570 Sep 14 j 20:44	15°♌01'09		asc. node	571 Aug 13 j 16:38	3°♌47'40	
	570 Sep 23 j 10:22	0°♌		morning set	571 Aug 28 j 23:53	28°♌18'21	
					571 Aug 29 j 21:48	0°♌	

superior conj	571 Sep 07 j 23:53	16° \cap 33'58	1°24'33	minimum elong	572 Aug 20 j 14:59	29° Ω 23'56	1°40'39
minimum elong	571 Sep 08 j 04:11	16° \cap 53'00	1°24'08		572 Aug 20 j 22:44	0° \cap	
max. Earth dist.	571 Sep 15 j 14:15	29° \cap 38'17	1.41851 AU	max. Earth dist.	572 Aug 27 j 19:36	12° \cap 23'35	1.39898 AU
	571 Sep 15 j 19:27	0° $\underline{\Omega}$		evening rise	572 Sep 01 j 00:58	19° \cap 37'19	
evening rise	571 Sep 21 j 08:25	9° $\underline{\Omega}$ 02'40			572 Sep 07 j 09:52	0° $\underline{\Omega}$	
desc. node	571 Sep 21 j 22:47	10° $\underline{\Omega}$ 00'00		desc. node	572 Sep 07 j 19:48	0° $\underline{\Omega}$ 39'16	
	571 Oct 05 j 01:15	0° \cap			572 Sep 28 j 07:26	0° \cap	
evening max el	571 Oct 24 j 10:50	25° \cap 16'40	22°29'30	evening max el	572 Oct 06 j 00:38	8° \cap 50'02	23°49'37
	571 Oct 30 j 09:08	0° \nearrow		retrograde	572 Oct 16 j 20:06	15° \cap 11'57	
retrograde	571 Nov 03 j 03:50	1° \nearrow 02'59		evening set	572 Oct 22 j 00:02	13° \cap 02'49	
	571 Nov 06 j 15:11	30° \cap		asc. node	572 Oct 26 j 12:56	7° \cap 49'50	
evening set	571 Nov 07 j 18:04	29° \cap 11'36		inferior conj	572 Oct 27 j 09:22	6° \cap 40'26	0°17'37
asc. node	571 Nov 09 j 15:52	27° \cap 19'21		minimum elong	572 Oct 27 j 08:57	6° \cap 41'53	0°17'26
inferior conj	571 Nov 13 j 02:26	22° \cap 51'42	1°09'47	min. Earth dist.	572 Oct 26 j 20:22	7° \cap 24'38	0.67621 AU
minimum elong	571 Nov 13 j 00:53	22° \cap 57'03	1°09'10	morning rise	572 Nov 01 j 17:48	0° \cap 33'35	
min. Earth dist.	571 Nov 12 j 23:51	23° \cap 00'35	0.67710 AU		572 Nov 02 j 13:26	30° \cap	
morning rise	571 Nov 18 j 07:33	16° \cap 40'22		direct	572 Nov 05 j 18:03	29° $\underline{\Omega}$ 02'42	
direct	571 Nov 22 j 21:35	14° \cap 47'20			572 Nov 09 j 04:01	0° \cap	
morning max el	571 Dec 02 j 05:21	20° \cap 17'36	22°09'17	morning max el	572 Nov 13 j 23:25	3° \cap 49'16	20°49'36
	571 Dec 10 j 09:30	0° \nearrow			572 Dec 03 j 10:13	0° \nearrow	
desc. node	571 Dec 18 j 22:04	11° \nearrow 51'13		desc. node	572 Dec 04 j 19:06	2° \nearrow 03'19	
	571 Dec 30 j 22:18	0° \searrow		morning set	572 Dec 13 j 10:49	15° \nearrow 18'55	
morning set	572 Jan 04 j 06:42	6° \searrow 55'26		max. Earth dist.	572 Dec 22 j 02:48	29° \nearrow 05'32	1.42900 AU
max. Earth dist.	572 Jan 09 j 22:05	16° \searrow 12'34	1.41026 AU		572 Dec 22 j 16:12	0° \searrow	
superior conj	572 Jan 17 j 16:50	29° \searrow 39'27	-2°02'02	superior conj	572 Dec 28 j 22:09	10° \searrow 20'52	-1°59'26
minimum elong	572 Jan 17 j 18:06	29° \searrow 45'05	2°02'01	minimum elong	572 Dec 28 j 18:55	10° \searrow 07'14	1°59'19
	572 Jan 17 j 21:27	0° \approx			573 Jan 09 j 05:37	0° \approx	
evening rise	572 Jan 28 j 01:00	18° \approx 36'57		evening rise	573 Jan 09 j 19:00	0° \approx 59'29	
	572 Feb 03 j 05:55	0° \times		asc. node	573 Jan 22 j 12:13	22° \approx 26'23	
asc. node	572 Feb 05 j 15:10	4° \times 06'21		evening max el	573 Jan 26 j 19:19	27° \approx 42'57	18°07'37
evening max el	572 Feb 13 j 07:58	14° \times 37'36	18°16'02		573 Jan 29 j 15:45	0° \times	
retrograde	572 Feb 20 j 09:40	18° \times 09'15		retrograde	573 Feb 02 j 09:07	1° \times 07'23	
evening set	572 Feb 22 j 22:49	17° \times 42'45		evening set	573 Feb 05 j 03:03	0° \times 31'24	
inferior conj	572 Feb 29 j 23:41	12° \times 59'59	3°24'34		573 Feb 06 j 04:05	30° \cap	
minimum elong	572 Mar 01 j 02:40	12° \times 53'31	3°24'07	inferior conj	573 Feb 11 j 14:09	25° \approx 27'24	3°46'20
min. Earth dist.	572 Mar 04 j 09:20	10° \times 03'59	0.59649 AU	minimum elong	573 Feb 11 j 14:56	25° \approx 25'25	3°46'19
morning rise	572 Mar 08 j 04:15	7° \times 21'33		min. Earth dist.	573 Feb 14 j 14:15	22° \approx 28'32	0.61752 AU
direct	572 Mar 14 j 15:31	5° \times 26'53		morning rise	573 Feb 18 j 01:30	19° \approx 33'28	
desc. node	572 Mar 15 j 21:13	5° \times 30'59		direct	573 Feb 24 j 23:36	17° \approx 06'25	
morning max el	572 Mar 28 j 22:48	13° \times 12'48	27°18'35	desc. node	573 Mar 02 j 18:17	18° \approx 37'04	
	572 Apr 11 j 06:47	0° Υ		morning max el	573 Mar 11 j 02:01	24° \approx 58'24	27°46'57
	572 Apr 28 j 02:13	0° \searrow			573 Mar 15 j 16:41	0° \times	
morning set	572 Apr 29 j 00:42	1° \searrow 56'19			573 Apr 04 j 15:41	0° Υ	
asc. node	572 May 03 j 14:27	11° \searrow 41'48		morning set	573 Apr 13 j 05:01	16° Υ 26'49	
max. Earth dist.	572 May 05 j 15:20	16° \searrow 09'01	1.32286 AU	max. Earth dist.	573 Apr 19 j 01:54	28° Υ 50'04	1.32525 AU
					573 Apr 19 j 14:48	0° \searrow	
superior conj	572 May 06 j 03:48	17° \searrow 17'30	0°26'47	asc. node	573 Apr 20 j 11:30	1° \searrow 52'29	
minimum elong	572 May 06 j 02:38	17° \searrow 11'04	0°26'31				
	572 May 11 j 23:47	0° \cap		superior conj	573 Apr 20 j 14:12	2° \searrow 07'13	0°01'12
evening rise	572 May 13 j 01:04	2° \cap 14'11		minimum elong	573 Apr 20 j 14:09	2° \searrow 06'54	0°01'10
	572 May 28 j 01:28	0° \searrow		behind sun begin	573 Apr 20 j 09:03	1° \searrow 39'07	
evening max el	572 Jun 10 j 06:49	16° \searrow 45'45	25°58'10	behind sun end	573 Apr 20 j 19:15	2° \searrow 34'42	
desc. node	572 Jun 11 j 20:28	18° \searrow 11'33		evening rise	573 Apr 27 j 12:34	17° \searrow 08'29	
retrograde	572 Jun 24 j 07:42	23° \searrow 57'22			573 May 03 j 21:32	0° \cap	
evening set	572 Jun 30 j 11:33	22° \searrow 25'44		evening max el	573 May 22 j 22:54	27° \cap 38'43	24°34'19
min. Earth dist.	572 Jul 04 j 19:27	19° \searrow 47'03	0.58860 AU		573 May 25 j 14:57	0° \searrow	
inferior conj	572 Jul 08 j 02:41	17° \searrow 20'18	-4°48'46	desc. node	573 May 29 j 17:31	2° \searrow 44'57	
minimum elong	572 Jul 08 j 03:27	17° \searrow 18'52	4°48'44	retrograde	573 Jun 05 j 21:03	4° \searrow 41'07	
morning rise	572 Jul 15 j 21:39	12° \searrow 54'18		evening set	573 Jun 10 j 18:04	3° \searrow 47'39	
direct	572 Jul 18 j 09:44	12° \searrow 33'26		min. Earth dist.	573 Jun 16 j 10:10	0° \searrow 53'49	0.56961 AU
morning max el	572 Jul 26 j 10:27	16° \searrow 23'08	18°33'33		573 Jun 17 j 19:55	30° \cap	
asc. node	572 Jul 30 j 13:42	21° \searrow 12'39		inferior conj	573 Jun 19 j 05:34	29° \cap 05'23	-4°35'16
	572 Aug 05 j 02:47	0° Ω		minimum elong	573 Jun 19 j 01:28	29° \cap 12'01	4°34'48
morning set	572 Aug 11 j 15:30	12° Ω 12'36		morning rise	573 Jun 27 j 11:38	25° \cap 00'02	
				direct	573 Jun 30 j 02:25	24° \cap 41'07	
superior conj	572 Aug 20 j 12:36	29° Ω 12'50	1°40'47	morning max el	573 Jul 09 j 09:30	29° \cap 00'29	19°25'06

	573 Jul 10 j 09:45	0°☿		morning max el	574 Jun 21 j 21:48	10°♊57'26	20°37'31
asc. node	573 Jul 17 j 10:45	9°☿27'24		asc. node	574 Jul 04 j 07:48	28°♊20'12	
morning set	573 Jul 26 j 15:45	26°☿32'49			574 Jul 05 j 05:30	0°☿	
	573 Jul 28 j 09:06	0°♌		morning set	574 Jul 10 j 21:49	11°☿11'16	
superior conj	573 Aug 03 j 18:05	12°♌42'15	1°46'38	superior conj	574 Jul 18 j 11:31	26°☿48'18	1°44'10
minimum elong	573 Aug 03 j 18:26	12°♌43'59	1°46'38	minimum elong	574 Jul 18 j 10:19	26°☿42'13	1°44'07
max. Earth dist.	573 Aug 09 j 23:11	24°♌31'23	1.37879 AU		574 Jul 20 j 01:22	0°♌	
	573 Aug 12 j 23:42	0°♍		max. Earth dist.	574 Jul 23 j 06:16	6°♌21'03	1.36034 AU
evening rise	573 Aug 13 j 17:54	1°♍20'49		evening rise	574 Jul 27 j 07:44	14°♌04'55	
desc. node	573 Aug 25 j 16:50	21°♍08'13			574 Aug 05 j 09:23	0°♍	
	573 Aug 31 j 14:50	0°♎		desc. node	574 Aug 12 j 13:52	11°♍21'10	
evening max el	573 Sep 18 j 12:30	22°♎26'49	25°06'42		574 Aug 26 j 09:11	0°♎	
retrograde	573 Sep 30 j 08:14	29°♎17'27		evening max el	574 Sep 01 j 00:08	6°♎04'08	26°13'16
evening set	573 Oct 06 j 02:45	26°♎51'35		retrograde	574 Sep 13 j 15:38	13°♎13'46	
min. Earth dist.	573 Oct 10 j 14:43	21°♎48'09	0.67203 AU	evening set	574 Sep 20 j 00:16	10°♎34'46	
inferior conj	573 Oct 11 j 14:23	20°♎30'38	-0°37'35	min. Earth dist.	574 Sep 24 j 04:30	6°♎07'47	0.66445 AU
minimum elong	573 Oct 11 j 15:20	20°♎27'33	0°37'10	inferior conj	574 Sep 25 j 15:37	4°♎19'17	-1°34'17
asc. node	573 Oct 13 j 09:59	18°♎11'27		minimum elong	574 Sep 25 j 18:03	4°♎11'46	1°33'18
morning rise	573 Oct 17 j 04:03	14°♎30'55			574 Sep 29 j 12:21	30°♎	
direct	573 Oct 20 j 16:12	13°♎19'56		asc. node	574 Sep 30 j 07:02	29°♎20'00	
morning max el	573 Oct 28 j 01:20	17°♎31'59	19°42'18	morning rise	574 Oct 01 j 12:14	28°♎29'29	
	573 Nov 06 j 18:57	0°♏		direct	574 Oct 04 j 14:27	27°♎34'54	
greatest brilliancy	573 Nov 11 j 02:42	6°♏22'44	-0.7m		574 Oct 09 j 22:36	0°♏	
desc. node	573 Nov 21 j 16:08	22°♏30'29		morning max el	574 Oct 11 j 10:14	1°♏22'49	18°49'55
morning set	573 Nov 22 j 07:46	23°♏30'57			574 Oct 31 j 05:22	0°♏	
	573 Nov 26 j 12:02	0°♐		morning set	574 Nov 01 j 21:44	2°♏39'27	
max. Earth dist.	573 Dec 04 j 15:10	12°♐46'51	1.44274 AU	desc. node	574 Nov 08 j 13:09	13°♏07'48	
				max. Earth dist.	574 Nov 17 j 08:12	26°♏56'51	1.44987 AU
superior conj	573 Dec 09 j 00:42	19°♐48'56	-1°39'18	superior conj	574 Nov 18 j 05:57	28°♏22'24	-1°01'10
minimum elong	573 Dec 08 j 16:54	19°♐17'33	1°38'38	minimum elong	574 Nov 17 j 22:31	27°♏53'11	1°00'16
	573 Dec 15 j 06:33	0°♑			574 Nov 19 j 06:45	0°♑	
evening rise	573 Dec 22 j 17:54	12°♑30'08		evening rise	574 Dec 03 j 17:57	23°♑02'29	
	574 Jan 02 j 05:24	0°♒			574 Dec 08 j 01:21	0°♑	
asc. node	574 Jan 09 j 09:17	10°♒00'42		evening max el	574 Dec 24 j 19:01	24°♑25'10	18°47'04
evening max el	574 Jan 10 j 07:52	11°♒00'51	18°18'15	asc. node	574 Dec 27 j 06:20	26°♑35'41	
retrograde	574 Jan 16 j 19:34	14°♒31'14		retrograde	574 Dec 31 j 12:44	28°♑12'17	
evening set	574 Jan 19 j 18:11	13°♒44'58		evening set	575 Jan 03 j 16:55	27°♑14'43	
inferior conj	574 Jan 25 j 19:02	8°♒21'16	3°45'41	inferior conj	575 Jan 09 j 10:30	21°♑33'33	3°28'48
minimum elong	574 Jan 25 j 17:58	8°♒24'16	3°45'37	minimum elong	575 Jan 09 j 08:15	21°♑40'26	3°28'26
min. Earth dist.	574 Jan 28 j 04:41	5°♒40'23	0.63656 AU	min. Earth dist.	575 Jan 11 j 04:47	19°♑24'14	0.65225 AU
morning rise	574 Jan 31 j 17:03	2°♒17'48		morning rise	575 Jan 14 j 23:12	15°♑24'26	
	574 Feb 04 j 17:21	30°♒		direct	575 Jan 21 j 15:13	12°♑32'19	
direct	574 Feb 07 j 15:53	29°♑30'57		morning max el	575 Feb 03 j 19:45	20°♑15'10	26°56'30
	574 Feb 10 j 17:48	0°♒		desc. node	575 Feb 04 j 12:21	20°♑57'27	
desc. node	574 Feb 17 j 15:19	3°♒57'55			575 Feb 12 j 05:26	0°♒	
morning max el	574 Feb 21 j 09:58	7°♒23'06	27°38'17		575 Mar 03 j 21:15	0°♒	
	574 Mar 10 j 19:30	0°♓		morning set	575 Mar 11 j 13:56	14°♓05'30	
	574 Mar 27 j 19:46	0°♓		max. Earth dist.	575 Mar 16 j 00:51	22°♓52'00	1.34236 AU
morning set	574 Mar 28 j 02:30	0°♓33'26		superior conj	575 Mar 19 j 23:34	0°♓58'35	-0°52'54
max. Earth dist.	574 Apr 02 j 06:25	11°♓08'18	1.33163 AU	minimum elong	575 Mar 20 j 02:09	1°♓12'00	0°52'24
superior conj	574 Apr 04 j 21:29	16°♓43'14	-0°25'44		575 Mar 19 j 12:19	0°♓	
minimum elong	574 Apr 04 j 22:44	16°♓49'55	0°25'28	asc. node	575 Mar 25 j 05:37	12°♓02'23	
asc. node	574 Apr 07 j 08:34	22°♓00'54		evening rise	575 Mar 27 j 10:19	16°♓38'43	
	574 Apr 11 j 01:49	0°♈			575 Apr 03 j 04:06	0°♈	
evening rise	574 Apr 12 j 00:17	1°♈58'59		evening max el	575 Apr 16 j 09:40	18°♈54'42	21°27'20
	574 Apr 27 j 15:04	0°♉		retrograde	575 Apr 28 j 13:18	24°♈50'05	
evening max el	574 May 04 j 13:21	8°♉11'11	22°59'06	evening set	575 Apr 30 j 22:43	24°♈37'02	
desc. node	574 May 16 j 14:32	14°♉46'14		desc. node	575 May 03 j 11:32	23°♈56'50	
retrograde	574 May 17 j 22:08	14°♉50'11		inferior conj	575 May 10 j 08:20	20°♈36'21	-1°56'55
evening set	574 May 21 j 08:14	14°♉24'30		minimum elong	575 May 10 j 02:57	20°♈43'54	1°55'04
min. Earth dist.	574 May 28 j 22:28	11°♉02'02	0.55560 AU	min. Earth dist.	575 May 10 j 11:11	20°♈32'21	0.54965 AU
inferior conj	574 May 30 j 13:02	10°♉06'11	-3°37'36	morning rise	575 May 19 j 07:47	16°♈37'32	
minimum elong	574 May 30 j 05:38	10°♉16'55	3°35'47	direct	575 May 22 j 10:51	16°♈16'11	
morning rise	574 Jun 08 j 05:35	6°♉12'46		morning max el	575 Jun 03 j 23:11	22°♈11'48	22°07'46
direct	574 Jun 11 j 00:12	5°♉54'32					

	575 Jun 10 j 16:54	0°♂		transit end	576 Apr 19 j 09:05	0°♂57'00	
asc. node	575 Jun 21 j 04:50	17°♂41'49		desc. node	576 Apr 19 j 08:34	0°♂57'45	
morning set	575 Jun 25 j 07:34	26°♂02'03			576 Apr 20 j 23:22	30°♂♂	
	575 Jun 27 j 04:53	0°♂		min. Earth dist.	576 Apr 21 j 00:54	29°♂57'44	0.55337 AU
				morning rise	576 Apr 28 j 02:53	26°♂40'35	
superior conj	575 Jul 02 j 13:12	11°♂19'59	1°35'07	direct	576 May 02 j 00:15	26°♂07'29	
minimum elong	575 Jul 02 j 11:05	11°♂08'48	1°34'56		576 May 12 j 06:44	0°♂	
max. Earth dist.	575 Jul 05 j 21:44	18°♂18'37	1.34523 AU	morning max el	576 May 15 j 16:16	2°♂51'38	23°48'19
evening rise	575 Jul 10 j 13:41	27°♂37'15			576 Jun 03 j 08:37	0°♂	
	575 Jul 11 j 19:21	0°♂		asc. node	576 Jun 07 j 01:53	7°♂24'07	
	575 Jul 29 j 15:20	0°♂		morning set	576 Jun 08 j 19:10	10°♂58'55	
desc. node	575 Jul 30 j 10:52	1°♂10'52					
evening max el	575 Aug 14 j 12:07	19°♂35'37	27°01'38	superior conj	576 Jun 15 j 20:19	26°♂07'42	1°20'51
retrograde	575 Aug 27 j 17:47	26°♂53'54		minimum elong	576 Jun 15 j 17:51	25°♂54'24	1°20'31
evening set	575 Sep 03 j 14:18	24°♂08'50			576 Jun 17 j 15:38	0°♂	
min. Earth dist.	575 Sep 07 j 11:32	20°♂18'36	0.65333 AU	max. Earth dist.	576 Jun 17 j 22:42	0°♂37'43	1.33406 AU
inferior conj	575 Sep 09 j 11:01	18°♂02'52	-2°30'34	evening rise	576 Jun 23 j 07:20	11°♂44'27	
minimum elong	575 Sep 09 j 14:51	17°♂51'53	2°29'11		576 Jul 03 j 01:30	0°♂	
morning rise	575 Sep 15 j 16:05	12°♂25'57		desc. node	576 Jul 16 j 07:53	20°♂26'51	
asc. node	575 Sep 17 j 04:03	11°♂52'58			576 Jul 24 j 04:24	0°♂	
direct	575 Sep 18 j 10:47	11°♂44'00		evening max el	576 Jul 26 j 23:20	2°♂49'40	27°24'38
morning max el	575 Sep 24 j 23:55	15°♂16'55	18°13'56	retrograde	576 Aug 09 j 13:57	10°♂08'38	
	575 Oct 05 j 14:04	0°♂		evening set	576 Aug 16 j 17:51	7°♂27'45	
morning set	575 Oct 13 j 16:15	13°♂13'46		min. Earth dist.	576 Aug 20 j 09:38	4°♂11'46	0.63866 AU
	575 Oct 24 j 00:05	0°♂		inferior conj	576 Aug 22 j 22:03	1°♂35'14	-3°23'43
desc. node	575 Oct 26 j 10:12	3°♂51'50		minimum elong	576 Aug 23 j 02:51	1°♂22'46	3°22'18
					576 Aug 24 j 11:30	30°♂♂	
superior conj	575 Oct 28 j 08:18	6°♂54'45	-0°12'42	morning rise	576 Aug 29 j 12:52	26°♂14'30	
minimum elong	575 Oct 28 j 06:40	6°♂48'16	0°12'29	direct	576 Sep 01 j 02:37	26°♂41'37	
behind sun begin	575 Oct 27 j 23:32	6°♂20'00		asc. node	576 Sep 03 j 01:05	26°♂00'31	
behind sun end	575 Oct 28 j 13:48	7°♂16'30		morning max el	576 Sep 07 j 15:41	29°♂07'39	17°55'11
max. Earth dist.	575 Oct 31 j 02:49	11°♂17'21	1.44967 AU		576 Sep 08 j 11:42	0°♂	
	575 Nov 12 j 01:57	0°♂		morning set	576 Sep 24 j 13:27	25°♂05'12	
evening rise	575 Nov 13 j 18:56	2°♂39'35			576 Sep 27 j 10:05	0°♂	
greatest brilliancy	575 Nov 25 j 19:29	21°♂15'00	-0.7m				
	575 Dec 01 j 18:35	0°♂		superior conj	576 Oct 07 j 04:13	16°♂21'09	0°33'47
evening max el	575 Dec 08 j 02:43	7°♂53'09	19°32'39	minimum elong	576 Oct 07 j 07:45	16°♂35'37	0°33'18
asc. node	575 Dec 14 j 03:20	11°♂57'12		desc. node	576 Oct 12 j 07:13	24°♂38'35	
retrograde	575 Dec 15 j 09:25	12°♂05'58		max. Earth dist.	576 Oct 12 j 20:22	25°♂31'06	1.44226 AU
evening set	575 Dec 18 j 20:41	10°♂55'31			576 Oct 15 j 16:10	0°♂	
inferior conj	575 Dec 24 j 09:23	4°♂59'29	3°00'03	evening rise	576 Oct 23 j 04:15	11°♂41'26	
minimum elong	575 Dec 24 j 06:39	5°♂08'23	2°59'21		576 Nov 04 j 06:22	0°♂	
min. Earth dist.	575 Dec 25 j 13:17	3°♂28'25	0.66410 AU	evening max el	576 Nov 20 j 05:22	21°♂22'26	20°32'58
	575 Dec 28 j 10:48	30°♂♂		retrograde	576 Nov 28 j 07:06	26°♂08'12	
morning rise	575 Dec 29 j 16:23	28°♂47'17		asc. node	576 Nov 30 j 00:21	25°♂51'29	
direct	576 Jan 04 j 20:39	26°♂02'50		evening set	576 Dec 02 j 03:22	24°♂43'01	
	576 Jan 13 j 12:26	0°♂		inferior conj	576 Dec 07 j 13:07	18°♂35'03	2°22'24
morning max el	576 Jan 17 j 04:55	3°♂22'25	25°49'23	minimum elong	576 Dec 07 j 10:30	18°♂43'58	2°21'32
desc. node	576 Jan 22 j 09:25	9°♂07'42		min. Earth dist.	576 Dec 08 j 04:08	17°♂44'00	0.67199 AU
	576 Feb 06 j 12:15	0°♂		morning rise	576 Dec 12 j 17:26	12°♂21'47	
morning set	576 Feb 22 j 11:02	26°♂50'25		direct	576 Dec 18 j 07:15	9°♂54'10	
	576 Feb 24 j 03:54	0°♂		morning max el	576 Dec 29 j 13:13	16°♂36'38	24°26'52
max. Earth dist.	576 Feb 26 j 07:13	4°♂03'05	1.35769 AU	desc. node	577 Jan 08 j 06:28	28°♂08'04	
					577 Jan 09 j 16:00	0°♂	
superior conj	576 Mar 02 j 17:56	14°♂46'08	-1°18'46		577 Jan 29 j 12:05	0°♂	
minimum elong	576 Mar 02 j 21:35	15°♂04'28	1°18'12	morning set	577 Feb 03 j 12:15	8°♂32'49	
	576 Mar 10 j 04:36	0°♂		max. Earth dist.	577 Feb 07 j 04:35	15°♂06'04	1.37697 AU
evening rise	576 Mar 10 j 16:40	1°♂01'40					
asc. node	576 Mar 11 j 02:39	1°♂52'29		superior conj	577 Feb 14 j 01:21	27°♂57'21	-1°41'12
evening max el	576 Mar 28 j 16:43	0°♂11'10	20°09'08	minimum elong	577 Feb 14 j 05:19	28°♂16'32	1°40'47
	576 Mar 28 j 12:08	0°♂			577 Feb 15 j 02:40	0°♂	
retrograde	576 Apr 08 j 03:34	5°♂12'49		evening rise	577 Feb 22 j 17:04	15°♂01'37	
evening set	576 Apr 10 j 05:29	5°♂01'44		asc. node	577 Feb 25 j 23:41	21°♂26'31	
inferior conj	576 Apr 19 j 05:00	1°♂03'05	0°02'34		577 Mar 02 j 15:37	0°♂	
minimum elong	576 Apr 19 j 05:07	1°♂02'54	0°02'31	evening max el	577 Mar 11 j 11:00	12°♂06'37	19°09'24
transit middle	576 Apr 19 j 05:07	1°♂02'54	0°02'31	retrograde	577 Mar 20 j 06:16	16°♂21'21	
transit begin	576 Apr 19 j 01:09	1°♂08'49		evening set	577 Mar 22 j 11:04	16°♂06'35	

inferior conj	577 Mar 30 j 16:17	11° Υ 55'05	1°47'17	minimum elong	578 Mar 12 j 04:17	23° X 17'54	2°58'04
minimum elong	577 Mar 30 j 20:06	11° Υ 48'35	1°46'05	min. Earth dist.	578 Mar 15 j 10:34	20° X 43'11	0.58447 AU
min. Earth dist.	577 Apr 02 j 16:05	9° Υ 53'36	0.56591 AU	morning rise	578 Mar 19 j 15:54	18° X 00'08	
desc. node	577 Apr 06 j 05:37	7° Υ 48'30		desc. node	578 Mar 24 j 02:41	16° X 33'47	
morning rise	577 Apr 08 j 02:13	6° Υ 59'36		direct	578 Mar 25 j 15:54	16° X 27'34	
direct	577 Apr 13 j 01:21	6° Υ 02'16		morning max el	578 Apr 09 j 00:34	24° X 06'14	26°46'10
morning max el	577 Apr 27 j 06:47	13° Υ 20'27	25°26'17		578 Apr 14 j 09:07	0° Υ	
	577 May 10 j 07:41	0° X			578 May 03 j 08:31	0° X	
morning set	577 May 24 j 07:00	25° X 56'39		morning set	578 May 08 j 17:23	10° X 48'45	
asc. node	577 May 24 j 22:57	27° X 21'00		asc. node	578 May 11 j 20:01	17° X 26'34	
	577 May 26 j 04:42	0° II					
superior conj	577 May 31 j 06:40	11° II 04'13	1°02'23	superior conj	578 May 15 j 18:23	26° X 02'34	0°40'34
minimum elong	577 May 31 j 04:23	10° II 51'41	1°01'59	minimum elong	578 May 15 j 16:42	25° X 53'19	0°40'13
max. Earth dist.	577 Jun 01 j 07:07	13° II 17'40	1.32679 AU	max. Earth dist.	578 May 15 j 19:18	26° X 07'37	1.32324 AU
evening rise	577 Jun 07 j 09:14	26° II 15'51		evening rise	578 May 17 j 13:38	0° II	
	577 Jun 09 j 05:15	0° X			578 May 22 j 16:34	11° II 01'38	
	577 Jun 26 j 12:33	0° Ω			578 Jun 01 j 11:05	0° X	
desc. node	577 Jul 03 j 04:53	8° Ω 54'55		desc. node	578 Jun 20 j 01:56	26° X 14'51	
evening max el	577 Jul 09 j 07:24	15° Ω 32'46	27°16'40	evening max el	578 Jun 21 j 09:32	27° X 32'42	26°35'35
retrograde	577 Jul 23 j 03:20	22° Ω 49'13		retrograde	578 Jun 24 j 04:40	0° Ω	
evening set	577 Jul 30 j 07:10	20° Ω 25'14		evening set	578 Jul 05 j 09:06	4° Ω 46'55	
min. Earth dist.	577 Aug 02 j 21:22	17° Ω 35'49	0.62072 AU	min. Earth dist.	578 Jul 12 j 01:41	2° Ω 53'02	
inferior conj	577 Aug 05 j 21:44	14° Ω 49'21	-4°09'30		578 Jul 15 j 22:51	0° Ω 15'56	0.60045 AU
minimum elong	577 Aug 06 j 02:29	14° Ω 38'22	4°08'30	inferior conj	578 Jul 16 j 07:04	30° R X	
morning rise	577 Aug 12 j 23:13	9° Ω 48'17		minimum elong	578 Jul 19 j 06:32	27° X 35'55	-4°41'02
direct	577 Aug 15 j 10:35	9° Ω 21'37		morning rise	578 Jul 19 j 09:25	27° X 30'05	4°40'45
asc. node	577 Aug 20 j 22:09	11° Ω 36'08		direct	578 Jul 26 j 19:09	22° X 57'16	
morning max el	577 Aug 22 j 06:41	12° Ω 48'49	17°54'42	morning max el	578 Jul 29 j 06:26	22° X 34'44	
	577 Sep 02 j 21:22	0° II		asc. node	578 Aug 05 j 17:58	26° X 12'45	18°13'38
morning set	577 Sep 07 j 07:22	7° II 55'56			578 Aug 07 j 19:13	28° X 25'20	
					578 Aug 09 j 01:25	0° Ω	
superior conj	577 Sep 18 j 03:13	27° II 07'44	1°09'42	morning set	578 Aug 21 j 16:22	21° Ω 30'19	
minimum elong	577 Sep 18 j 08:05	27° II 28'35	1°09'08		578 Aug 26 j 04:27	0° II	
	577 Sep 19 j 19:33	0° Ω		superior conj	578 Aug 31 j 03:47	9° II 10'21	1°32'50
max. Earth dist.	577 Sep 25 j 10:12	9° Ω 21'05	1.42860 AU	minimum elong	578 Aug 31 j 07:21	9° II 26'28	1°32'33
desc. node	577 Sep 29 j 04:13	15° Ω 24'58		max. Earth dist.	578 Sep 07 j 18:19	22° II 31'24	1.41042 AU
evening rise	577 Oct 02 j 14:07	20° Ω 49'02			578 Sep 12 j 05:56	0° Ω	
	577 Oct 08 j 12:57	0° II		evening rise	578 Sep 12 j 16:52	0° Ω 44'39	
	577 Oct 29 j 18:55	0° X		desc. node	578 Sep 16 j 01:14	6° Ω 07'57	
evening max el	577 Nov 03 j 02:13	4° X 51'49	21°44'44		578 Oct 02 j 00:20	0° II	
retrograde	577 Nov 12 j 03:53	10° X 15'29		evening max el	578 Oct 16 j 17:57	18° II 22'49	23°03'26
evening set	577 Nov 16 j 11:06	8° X 33'49		retrograde	578 Oct 26 j 22:15	24° II 25'12	
asc. node	577 Nov 16 j 21:25	8° X 12'17		evening set	578 Oct 31 j 18:13	22° II 26'00	
inferior conj	577 Nov 21 j 19:33	2° X 17'08	1°37'53	asc. node	578 Nov 03 j 18:28	19° II 13'10	
minimum elong	577 Nov 21 j 17:29	2° X 24'14	1°37'06	inferior conj	578 Nov 06 j 02:48	16° II 04'21	0°48'07
min. Earth dist.	577 Nov 21 j 23:03	2° X 05'02	0.67623 AU	minimum elong	578 Nov 06 j 01:42	16° II 08'10	0°47'40
	577 Nov 23 j 11:46	30° R II		min. Earth dist.	578 Nov 05 j 19:42	16° II 28'51	0.67710 AU
morning rise	577 Nov 26 j 23:44	26° II 04'42		morning rise	578 Nov 11 j 09:06	9° II 54'44	
direct	577 Dec 01 j 22:17	23° II 58'46		direct	578 Nov 15 j 16:59	8° II 11'34	
morning max el	577 Dec 11 j 22:48	29° II 55'38	22°58'51	morning max el	578 Nov 24 j 13:05	13° II 22'29	21°34'10
	577 Dec 12 j 00:32	0° X			578 Dec 07 j 16:15	0° X	
desc. node	577 Dec 26 j 03:30	17° X 43'34		desc. node	578 Dec 13 j 00:31	7° X 44'30	
	578 Jan 03 j 12:38	0° X		morning set	578 Dec 26 j 05:11	27° X 56'30	
morning set	578 Jan 15 j 11:14	18° X 55'54			578 Dec 27 j 12:13	0° X	
max. Earth dist.	578 Jan 20 j 00:08	26° X 36'07	1.39824 AU	max. Earth dist.	579 Jan 02 j 00:23	8° X 56'46	1.41869 AU
	578 Jan 21 j 23:06	0° \approx					
superior conj	578 Jan 27 j 17:24	10° \approx 19'57	-1°57'14	superior conj	579 Jan 09 j 12:55	21° X 41'33	-2°02'50
minimum elong	578 Jan 27 j 20:16	10° \approx 33'07	1°57'06	minimum elong	579 Jan 09 j 12:30	21° X 39'45	2°02'50
evening rise	578 Feb 06 j 08:34	28° \approx 30'13			579 Jan 14 j 05:53	0° \approx	
	578 Feb 07 j 03:23	0° X		evening rise	579 Jan 20 j 11:38	11° \approx 19'29	
asc. node	578 Feb 12 j 20:44	10° X 37'53		asc. node	579 Jan 30 j 17:48	29° \approx 19'19	
evening max el	578 Feb 22 j 14:15	24° X 35'24	18°29'41		579 Jan 31 j 04:15	0° X	
retrograde	578 Mar 02 j 03:53	28° X 18'25		evening max el	579 Feb 05 j 23:30	7° X 29'45	18°10'00
evening set	578 Mar 04 j 13:57	27° X 56'49		retrograde	579 Feb 12 j 19:03	10° X 56'57	
inferior conj	578 Mar 12 j 00:20	23° X 25'47	2°58'55	evening set	579 Feb 15 j 10:09	10° X 26'40	
				inferior conj	579 Feb 22 j 04:43	5° X 34'45	3°36'59

minimum elong	579 Feb 22 j 06:47	5° H 29'58	3°36'46	evening max el	580 Jan 20 j 11:42	20° \approx 41'09	18°09'53
min. Earth dist.	579 Feb 25 j 11:14	2° H 34'23	0.60554 AU	retrograde	580 Jan 26 j 23:35	24° \approx 06'35	
	579 Feb 28 j 18:20	30° \approx		evening set	580 Jan 29 j 19:25	23° \approx 26'27	
morning rise	579 Mar 01 j 01:30	29° \approx 48'22		inferior conj	580 Feb 05 j 01:47	18° \approx 14'10	3°48'22
direct	579 Mar 07 j 18:29	27° \approx 38'44		minimum elong	580 Feb 05 j 01:43	18° \approx 14'21	3°48'22
desc. node	579 Mar 10 j 23:44	28° \approx 06'46		min. Earth dist.	580 Feb 07 j 20:14	15° \approx 20'25	0.62599 AU
	579 Mar 15 j 04:54	0° H		morning rise	580 Feb 11 j 06:57	12° \approx 15'31	
morning max el	579 Mar 22 j 00:30	5° H 28'40	27°35'11	direct	580 Feb 18 j 06:35	9° \approx 37'52	
	579 Apr 09 j 07:45	0° Y		desc. node	580 Feb 25 j 20:46	12° \approx 14'12	
morning set	579 Apr 23 j 00:30	25° Y 29'11		morning max el	580 Mar 03 j 05:58	17° \approx 31'32	27°47'34
	579 Apr 25 j 04:15	0° B			580 Mar 13 j 16:05	0° H	
asc. node	579 Apr 28 j 17:04	7° B 36'34			580 Apr 01 j 01:21	0° Y	
max. Earth dist.	579 Apr 29 j 07:29	8° B 55'12	1.32339 AU	morning set	580 Apr 06 j 02:15	9° Y 50'45	
				max. Earth dist.	580 Apr 11 j 15:46	21° Y 27'10	1.32739 AU
superior conj	579 Apr 30 j 05:45	10° B 57'04	0°16'08				
minimum elong	579 Apr 30 j 05:02	10° B 53'05	0°15'58	superior conj	580 Apr 13 j 15:05	25° Y 42'04	-0°10'09
evening rise	579 May 07 j 03:06	25° B 54'32		minimum elong	580 Apr 13 j 15:34	25° Y 44'40	0°10'02
	579 May 09 j 02:06	0° II		behind sun begin	580 Apr 13 j 11:31	25° Y 22'44	
	579 May 26 j 13:47	0° E		behind sun end	580 Apr 13 j 19:37	26° Y 06'37	
evening max el	579 Jun 03 j 04:41	8° E 46'53	25°24'44	asc. node	580 Apr 14 j 14:08	27° Y 46'58	
desc. node	579 Jun 06 j 22:59	11° E 58'47			580 Apr 15 j 14:37	0° B	
retrograde	579 Jun 17 j 05:33	15° E 56'36		evening rise	580 Apr 20 j 14:55	10° B 48'01	
evening set	579 Jun 22 j 21:26	14° E 41'33			580 Apr 30 j 11:52	0° II	
min. Earth dist.	579 Jun 27 j 16:39	11° E 58'16	0.58005 AU	evening max el	580 May 14 j 19:24	19° II 28'29	23°54'23
inferior conj	579 Jun 30 j 20:58	9° E 45'18	-4°47'48	desc. node	580 May 23 j 20:01	25° II 31'59	
minimum elong	579 Jun 30 j 19:46	9° E 47'25	4°47'47	retrograde	580 May 28 j 14:02	26° II 23'20	
morning rise	579 Jul 08 j 20:43	5° E 28'59		evening set	580 Jun 01 j 19:32	25° II 43'48	
direct	579 Jul 11 j 09:40	5° E 09'13		min. Earth dist.	580 Jun 08 j 06:22	22° II 38'59	0.56277 AU
morning max el	579 Jul 19 j 22:21	9° E 09'56	18°53'01	inferior conj	580 Jun 10 j 15:19	21° II 11'48	-4°16'41
asc. node	579 Jul 25 j 16:17	16° E 12'37		minimum elong	580 Jun 10 j 09:21	21° II 20'59	4°15'39
	579 Aug 02 j 14:47	0° Ω		morning rise	580 Jun 19 j 01:57	17° II 12'46	
morning set	579 Aug 05 j 12:00	5° Ω 35'56		direct	580 Jun 21 j 17:57	16° II 54'26	
				morning max el	580 Jul 01 j 17:03	21° II 31'23	19°53'26
superior conj	579 Aug 14 j 00:17	22° Ω 12'19	1°44'24		580 Jul 08 j 14:40	0° E	
minimum elong	579 Aug 14 j 01:46	22° Ω 19'24	1°44'21	asc. node	580 Jul 11 j 13:20	4° E 45'08	
	579 Aug 18 j 04:14	0° M		morning set	580 Jul 19 j 15:02	20° E 04'48	
max. Earth dist.	579 Aug 20 j 21:49	4° M 56'51	1.39020 AU		580 Jul 24 j 12:05	0° Ω	
evening rise	579 Aug 24 j 19:56	11° M 48'29					
desc. node	579 Sep 02 j 22:16	26° M 43'11		superior conj	580 Jul 27 j 11:22	5° Ω 58'51	1°46'29
	579 Sep 05 j 01:02	0° E		minimum elong	580 Jul 27 j 10:59	5° Ω 56'59	1°46'29
	579 Sep 27 j 09:09	0° M		max. Earth dist.	580 Aug 02 j 01:59	16° Ω 53'00	1.37060 AU
evening max el	579 Sep 29 j 06:30	1° M 57'04	24°23'14	evening rise	580 Aug 05 j 22:24	23° Ω 59'45	
retrograde	579 Oct 10 j 13:02	8° M 33'08			580 Aug 09 j 07:47	0° M	
evening set	579 Oct 15 j 23:01	6° M 16'38		desc. node	580 Aug 19 j 19:18	17° M 06'07	
min. Earth dist.	579 Oct 20 j 15:38	0° M 52'50	0.67477 AU		580 Aug 28 j 17:00	0° E	
inferior conj	579 Oct 21 j 09:09	29° E 54'04	-0°05'30	evening max el	580 Sep 10 j 18:14	15° E 35'04	25°36'50
minimum elong	579 Oct 21 j 09:16	29° E 53'38	0°05'26	retrograde	580 Sep 22 j 23:13	22° E 35'06	
transit middle	579 Oct 21 j 09:16	29° E 53'38	0°05'26	evening set	580 Sep 28 j 23:45	20° E 03'20	
transit begin	579 Oct 21 j 06:42	0° M 02'18		min. Earth dist.	580 Oct 03 j 08:27	15° E 14'57	0.66921 AU
transit end	579 Oct 21 j 11:51	29° E 44'58		inferior conj	580 Oct 04 j 12:47	13° E 44'10	-1°01'31
	579 Oct 21 j 07:23	30° R 5		minimum elong	580 Oct 04 j 14:21	13° E 39'08	1°00'52
asc. node	579 Oct 21 j 15:31	29° E 32'42		asc. node	580 Oct 07 j 12:32	10° E 08'07	
morning rise	579 Oct 26 j 19:34	23° E 49'46		morning rise	580 Oct 10 j 05:10	7° E 47'59	
direct	579 Oct 30 j 14:20	22° E 27'49		direct	580 Oct 13 j 12:51	6° E 44'19	
morning max el	579 Nov 07 j 10:28	26° E 58'59	20°19'14	morning max el	580 Oct 20 j 15:26	10° E 45'02	19°18'01
	579 Nov 10 j 04:07	0° M			580 Nov 03 j 18:24	0° M	
desc. node	579 Nov 29 j 21:32	28° M 03'22		morning set	580 Nov 13 j 04:45	14° M 34'34	
	579 Dec 01 j 04:05	0° J		desc. node	580 Nov 15 j 18:33	18° M 35'10	
morning set	579 Dec 05 j 03:06	6° J 05'36			580 Nov 23 j 01:47	0° J	
max. Earth dist.	579 Dec 15 j 07:57	22° J 09'44	1.43556 AU	max. Earth dist.	580 Nov 26 j 22:24	6° J 04'31	1.44670 AU
	579 Dec 20 j 03:50	0° B					
superior conj	579 Dec 21 j 06:52	1° B 51'15	-1°53'13	superior conj	580 Nov 29 j 22:59	10° J 52'05	-1°25'05
minimum elong	579 Dec 21 j 01:27	1° B 28'52	1°52'53	minimum elong	580 Nov 29 j 14:30	10° J 18'23	1°24'13
evening rise	580 Jan 02 j 22:00	23° B 20'24			580 Dec 11 j 18:57	0° B	
	580 Jan 06 j 17:46	0° \approx		evening rise	580 Dec 14 j 11:27	4° B 26'12	
asc. node	580 Jan 17 j 14:50	17° \approx 21'11			580 Dec 30 j 14:13	0° \approx	
				evening max el	581 Jan 02 j 24:00	4° \approx 02'38	18°28'24

asc. node	581 Jan 03 j 11:51	4° \approx 31'57		evening rise	581 Nov 25 j 01:25	14° \approx 34'18	
retrograde	581 Jan 09 j 13:11	7° \approx 38'30		greatest brilliancy	581 Dec 04 j 02:55	28° \approx 54'59	-0.8m
evening set	581 Jan 12 j 14:07	6° \approx 47'29			581 Dec 04 j 19:32	0° \approx	
inferior conj	581 Jan 18 j 11:34	1° \approx 16'13	3°40'11	evening max el	581 Dec 17 j 09:59	17° \approx 29'20	19°04'30
minimum elong	581 Jan 18 j 09:54	1° \approx 21'03	3°40'00	asc. node	581 Dec 21 j 08:52	20° \approx 37'58	
	581 Jan 19 j 13:36	30° \approx		retrograde	581 Dec 24 j 08:14	21° \approx 26'07	
min. Earth dist.	581 Jan 20 j 14:42	28° \approx 47'34	0.64377 AU	evening set	581 Dec 27 j 15:20	20° \approx 23'04	
morning rise	581 Jan 24 j 05:11	25° \approx 10'16		inferior conj	582 Jan 02 j 06:33	14° \approx 35'05	3°17'50
direct	581 Jan 31 j 02:04	22° \approx 19'17		minimum elong	582 Jan 02 j 04:01	14° \approx 43'04	3°17'20
desc. node	581 Feb 11 j 17:47	28° \approx 20'43		min. Earth dist.	582 Jan 03 j 18:27	12° \approx 41'54	0.65778 AU
	581 Feb 13 j 11:26	0° \approx		morning rise	582 Jan 07 j 16:27	8° \approx 24'35	
morning max el	581 Feb 13 j 14:45	0° \approx 08'17	27°24'06	direct	582 Jan 14 j 03:55	5° \approx 34'39	
	581 Mar 07 j 15:28	0° \approx		morning max el	582 Jan 27 j 00:30	13° \approx 08'34	26°30'36
morning set	581 Mar 20 j 19:52	23° \approx 43'43		desc. node	582 Jan 29 j 14:48	15° \approx 53'29	
	581 Mar 23 j 23:10	0° \approx			582 Feb 09 j 16:01	0° \approx	
max. Earth dist.	581 Mar 25 j 16:16	3° \approx 30'52	1.33564 AU		582 Feb 28 j 07:17	0° \approx	
				morning set	582 Mar 04 j 01:49	6° \approx 57'35	
superior conj	581 Mar 28 j 20:26	10° \approx 10'13	-0°37'19	max. Earth dist.	582 Mar 08 j 05:58	15° \approx 01'22	1.34840 AU
minimum elong	581 Mar 28 j 22:15	10° \approx 19'52	0°36'56				
asc. node	581 Apr 01 j 11:10	17° \approx 52'53		superior conj	582 Mar 12 j 19:36	24° \approx 14'59	-1°04'07
evening rise	581 Apr 05 j 02:08	25° \approx 34'46		minimum elong	582 Mar 12 j 22:41	24° \approx 30'50	1°03'34
	581 Apr 07 j 05:18	0° \approx			582 Mar 15 j 14:08	0° \approx	
	581 Apr 26 j 10:37	0° \approx		asc. node	582 Mar 19 j 08:12	7° \approx 50'18	
evening max el	581 Apr 26 j 11:40	0° \approx 02'34	22°18'58	evening rise	582 Mar 20 j 10:54	10° \approx 08'41	
retrograde	581 May 09 j 09:41	6° \approx 24'27			582 Mar 31 j 00:37	0° \approx	
desc. node	581 May 10 j 17:02	6° \approx 20'37		evening max el	582 Apr 08 j 12:09	10° \approx 57'59	20°51'55
evening set	581 May 12 j 07:27	6° \approx 05'50		retrograde	582 Apr 19 j 22:51	16° \approx 30'51	
min. Earth dist.	581 May 20 j 18:35	2° \approx 27'39	0.55198 AU	evening set	582 Apr 22 j 03:28	16° \approx 19'25	
inferior conj	581 May 21 j 16:18	1° \approx 56'59	-2°59'16	desc. node	582 Apr 27 j 14:02	14° \approx 26'15	
minimum elong	581 May 21 j 09:03	2° \approx 07'14	2°57'08	inferior conj	582 May 01 j 10:18	12° \approx 21'22	-1°06'24
	581 May 25 j 06:48	30° \approx		minimum elong	582 May 01 j 07:09	12° \approx 25'51	1°05'16
morning rise	581 May 30 j 12:28	28° \approx 03'34		min. Earth dist.	582 May 02 j 07:17	11° \approx 51'29	0.55012 AU
direct	581 Jun 02 j 10:03	27° \approx 44'31		morning rise	582 May 10 j 10:27	8° \approx 14'53	
	581 Jun 09 j 21:47	0° \approx		direct	582 May 13 j 20:05	7° \approx 49'57	
morning max el	581 Jun 14 j 00:27	3° \approx 09'19	21°13'58	morning max el	582 May 26 j 21:43	14° \approx 06'37	22°49'56
asc. node	581 Jun 28 j 10:22	23° \approx 51'09			582 Jun 08 j 01:13	0° \approx	
	581 Jul 01 j 14:10	0° \approx		asc. node	582 Jun 15 j 07:26	13° \approx 22'17	
morning set	581 Jul 03 j 22:54	4° \approx 49'03		morning set	582 Jun 18 j 09:40	19° \approx 43'02	
					582 Jun 23 j 05:38	0° \approx	
superior conj	581 Jul 11 j 08:40	20° \approx 16'28	1°41'02				
minimum elong	581 Jul 11 j 07:00	20° \approx 07'51	1°40'56	superior conj	582 Jun 25 j 12:58	4° \approx 55'38	1°29'39
max. Earth dist.	581 Jul 15 j 12:33	28° \approx 44'21	1.35351 AU	minimum elong	582 Jun 25 j 10:37	4° \approx 43'12	1°29'22
	581 Jul 16 j 03:47	0° \approx		max. Earth dist.	582 Jun 28 j 08:21	10° \approx 50'52	1.34003 AU
evening rise	581 Jul 19 j 19:39	7° \approx 05'41		evening rise	582 Jul 03 j 07:03	20° \approx 53'42	
	581 Aug 02 j 00:07	0° \approx			582 Jul 08 j 01:34	0° \approx	
desc. node	581 Aug 06 j 16:21	7° \approx 09'58		desc. node	582 Jul 24 j 13:22	26° \approx 04'31	
evening max el	581 Aug 24 j 06:16	29° \approx 11'19	26°36'33		582 Jul 26 j 21:47	0° \approx	
	581 Aug 25 j 02:51	0° \approx		evening max el	582 Aug 06 j 18:03	12° \approx 36'07	27°14'49
retrograde	581 Sep 06 j 04:14	6° \approx 24'52		retrograde	582 Aug 20 j 03:42	19° \approx 55'04	
evening set	581 Sep 12 j 18:21	3° \approx 42'28		evening set	582 Aug 27 j 04:18	17° \approx 10'06	
	581 Sep 16 j 09:46	30° \approx		min. Earth dist.	582 Aug 30 j 22:54	13° \approx 35'18	0.64755 AU
min. Earth dist.	581 Sep 16 j 19:37	29° \approx 31'09	0.66019 AU	inferior conj	582 Sep 02 j 03:56	11° \approx 09'40	-2°53'45
inferior conj	581 Sep 18 j 11:48	27° \approx 30'48	-1°58'20	minimum elong	582 Sep 02 j 08:16	10° \approx 57'46	2°52'17
minimum elong	581 Sep 18 j 14:51	27° \approx 21'39	1°57'09	morning rise	582 Sep 08 j 13:03	5° \approx 39'29	
morning rise	581 Sep 24 j 11:49	21° \approx 46'00		direct	582 Sep 11 j 05:22	5° \approx 01'44	
asc. node	581 Sep 24 j 09:33	21° \approx 49'08		asc. node	582 Sep 11 j 06:37	5° \approx 01'45	
direct	581 Sep 27 j 10:39	20° \approx 57'04		morning max el	582 Sep 17 j 17:33	8° \approx 30'24	18°03'51
morning max el	581 Oct 04 j 02:36	24° \approx 37'13	18°32'34		582 Oct 02 j 06:48	0° \approx	
	581 Oct 08 j 13:49	0° \approx		morning set	582 Oct 05 j 12:57	5° \approx 27'41	
morning set	581 Oct 24 j 06:31	24° \approx 19'07					
	581 Oct 27 j 19:44	0° \approx		superior conj	582 Oct 19 j 07:54	28° \approx 06'04	0°07'58
desc. node	581 Nov 02 j 15:36	9° \approx 15'39		minimum elong	582 Oct 19 j 08:52	28° \approx 09'56	0°07'50
				behind sun begin	582 Oct 18 j 23:29	27° \approx 32'21	
superior conj	581 Nov 09 j 00:11	19° \approx 16'55	-0°41'09	behind sun end	582 Oct 19 j 18:14	28° \approx 47'27	
minimum elong	581 Nov 08 j 18:51	18° \approx 55'56	0°40'27	desc. node	582 Oct 20 j 12:38	0° \approx 00'56	
max. Earth dist.	581 Nov 09 j 17:03	20° \approx 23'12	1.45072 AU		582 Oct 20 j 12:24	0° \approx	
	581 Nov 15 j 19:52	0° \approx		max. Earth dist.	582 Oct 23 j 11:54	4° \approx 43'53	1.44731 AU

evening rise	582 Nov 04 j 18:14	23° \mathbb{M} 52'19		max. Earth dist.	583 Oct 06 j 03:45	18° $\underline{\mathbf{A}}$ 48'06	1.43705 AU
	582 Nov 08 j 17:39	0° \mathbb{A}		desc. node	583 Oct 07 j 09:41	20° $\underline{\mathbf{A}}$ 48'10	
greatest brilliancy	582 Nov 18 j 11:10	14° \mathbb{A} 46'02	-0.6m		583 Oct 13 j 05:33	0° \mathbb{M}	
	582 Nov 29 j 18:05	0° \mathbb{B}		evening rise	583 Oct 15 j 01:32	2° \mathbb{M} 50'40	
evening max el	582 Nov 30 j 15:36	0° \mathbb{B} 57'23	19°56'39		583 Nov 02 j 06:44	0° \mathbb{A}	
retrograde	582 Dec 08 j 05:45	5° \mathbb{B} 23'47		evening max el	583 Nov 13 j 15:43	14° \mathbb{A} 26'12	21°02'19
asc. node	582 Dec 08 j 05:54	5° \mathbb{B} 23'47		retrograde	583 Nov 22 j 03:23	19° \mathbb{A} 28'16	
evening set	582 Dec 11 j 20:36	4° \mathbb{B} 07'13		asc. node	583 Nov 25 j 02:56	18° \mathbb{A} 38'13	
	582 Dec 15 j 20:49	30° \mathbb{R} \mathbb{A}		evening set	583 Nov 26 j 03:58	17° \mathbb{A} 56'25	
inferior conj	582 Dec 17 j 07:48	28° \mathbb{A} 05'26	2°45'02	inferior conj	583 Dec 01 j 12:57	11° \mathbb{A} 44'11	2°04'16
minimum elong	582 Dec 17 j 05:03	28° \mathbb{A} 14'35	2°44'15	minimum elong	583 Dec 01 j 10:31	11° \mathbb{A} 52'32	2°03'25
min. Earth dist.	582 Dec 18 j 05:57	26° \mathbb{A} 51'37	0.66784 AU	min. Earth dist.	583 Dec 01 j 22:58	11° \mathbb{A} 09'46	0.67417 AU
morning rise	582 Dec 22 j 13:18	21° \mathbb{A} 52'27		morning rise	583 Dec 06 j 16:53	5° \mathbb{A} 30'44	
direct	582 Dec 28 j 11:29	19° \mathbb{A} 14'34		direct	583 Dec 12 j 00:09	3° \mathbb{A} 11'56	
morning max el	583 Jan 09 j 09:28	26° \mathbb{A} 20'12	25°15'43	morning max el	583 Dec 22 j 17:59	9° \mathbb{A} 36'22	23°49'30
	583 Jan 12 j 18:58	0° \mathbb{B}		desc. node	584 Jan 03 j 08:54	23° \mathbb{A} 43'31	
desc. node	583 Jan 16 j 11:50	4° \mathbb{B} 26'55			584 Jan 07 j 20:30	0° \mathbb{B}	
	583 Feb 03 j 06:10	0° \approx			584 Jan 26 j 23:24	0° \approx	
morning set	583 Feb 14 j 15:15	19° \approx 18'01		morning set	584 Jan 27 j 06:03	0° \approx 28'25	
max. Earth dist.	583 Feb 18 j 08:09	26° \approx 06'05	1.36551 AU	max. Earth dist.	584 Jan 31 j 03:17	7° \approx 14'03	1.38588 AU
	583 Feb 20 j 09:36	0° \mathbb{H}					
				superior conj	584 Feb 07 j 11:12	20° \approx 39'29	-1°49'01
superior conj	583 Feb 24 j 09:45	7° \mathbb{H} 47'53	-1°28'51	minimum elong	584 Feb 07 j 14:55	20° \approx 57'07	1°48'43
minimum elong	583 Feb 24 j 13:39	8° \mathbb{H} 07'14	1°28'19		584 Feb 12 j 07:52	0° \mathbb{H}	
evening rise	583 Mar 04 j 15:03	24° \mathbb{H} 22'39		evening rise	584 Feb 16 j 12:03	8° \mathbb{H} 09'47	
asc. node	583 Mar 06 j 05:14	27° \mathbb{H} 34'07		asc. node	584 Feb 21 j 02:17	16° \mathbb{H} 59'04	
	583 Mar 07 j 10:45	0° \mathbb{Y}			584 Feb 28 j 22:47	0° \mathbb{Y}	
evening max el	583 Mar 22 j 00:00	22° \mathbb{Y} 30'29	19°41'15	evening max el	584 Mar 03 j 22:30	4° \mathbb{Y} 41'07	18°50'05
retrograde	583 Mar 21 j 17:32	27° \mathbb{Y} 11'10		retrograde	584 Mar 12 j 03:50	8° \mathbb{Y} 40'12	
evening set	583 Apr 02 j 19:43	26° \mathbb{Y} 59'09		evening set	584 Mar 14 j 10:44	8° \mathbb{Y} 22'56	
inferior conj	583 Apr 11 j 11:55	22° \mathbb{Y} 56'07	0°50'21	inferior conj	584 Mar 22 j 07:46	4° \mathbb{Y} 03'56	2°21'59
minimum elong	583 Apr 11 j 14:03	22° \mathbb{Y} 52'46	0°49'36	minimum elong	584 Mar 22 j 12:01	3° \mathbb{Y} 56'11	2°20'50
min. Earth dist.	583 Apr 13 j 21:38	21° \mathbb{Y} 25'44	0.55774 AU	min. Earth dist.	584 Mar 25 j 14:17	1° \mathbb{Y} 42'08	0.57325 AU
desc. node	583 Apr 14 j 11:03	21° \mathbb{Y} 05'24			584 Mar 28 j 06:13	30° \mathbb{R} \mathbb{H}	
morning rise	583 Apr 20 j 05:50	18° \mathbb{Y} 19'39		morning rise	584 Mar 30 j 10:14	28° \mathbb{H} 54'23	
direct	583 Apr 24 j 13:22	17° \mathbb{Y} 38'05		desc. node	584 Mar 31 j 08:06	28° \mathbb{H} 32'39	
morning max el	583 May 08 j 13:09	24° \mathbb{Y} 38'58	24°31'16	direct	584 Apr 04 j 20:39	27° \mathbb{H} 42'42	
	583 May 13 j 11:18	0° \mathbb{B}			584 Apr 12 j 12:38	0° \mathbb{Y}	
	583 May 31 j 15:25	0° \mathbb{II}		morning max el	584 Apr 19 j 04:30	5° \mathbb{Y} 11'54	26°03'18
asc. node	583 Jun 02 j 04:30	3° \mathbb{II} 11'32			584 May 07 j 05:45	0° \mathbb{B}	
morning set	583 Jun 02 j 21:36	4° \mathbb{II} 41'09		morning set	584 May 17 j 09:00	19° \mathbb{B} 37'05	
				asc. node	584 May 19 j 01:34	23° \mathbb{B} 12'36	
					584 May 22 j 04:39	0° \mathbb{II}	
superior conj	583 Jun 09 j 21:45	19° \mathbb{II} 48'14	1°13'29				
minimum elong	583 Jun 09 j 19:18	19° \mathbb{II} 34'57	1°13'06	superior conj	584 May 24 j 08:55	4° \mathbb{II} 46'31	0°53'31
max. Earth dist.	583 Jun 11 j 12:43	23° \mathbb{II} 18'59	1.33045 AU	minimum elong	584 May 24 j 06:50	4° \mathbb{II} 35'06	0°53'07
	583 Jun 14 j 16:07	0° \mathbb{B}		max. Earth dist.	584 May 24 j 23:00	6° \mathbb{II} 03'46	1.32478 AU
evening rise	583 Jun 17 j 04:36	5° \mathbb{B} 12'22		evening rise	584 May 31 j 09:07	19° \mathbb{II} 51'02	
	583 Jun 30 j 16:50	0° \mathbb{Q}			584 Jun 05 j 10:37	0° \mathbb{B}	
desc. node	583 Jul 11 j 10:23	15° \mathbb{Q} 44'23			584 Jun 24 j 04:02	0° \mathbb{Q}	
evening max el	583 Jul 20 j 04:02	25° \mathbb{Q} 38'04	27°25'12	desc. node	584 Jun 27 j 07:25	3° \mathbb{Q} 46'40	
	583 Jul 25 j 13:01	0° \mathbb{M}		evening max el	584 Jul 01 j 09:55	8° \mathbb{Q} 04'16	27°03'17
retrograde	583 Aug 02 j 21:22	2° \mathbb{M} 57'01		retrograde	584 Jul 15 j 08:01	15° \mathbb{Q} 20'16	
evening set	583 Aug 10 j 02:24	0° \mathbb{M} 21'18		evening set	584 Jul 22 j 08:21	13° \mathbb{Q} 07'43	
	583 Aug 10 j 13:59	30° \mathbb{R} \mathbb{Q}		min. Earth dist.	584 Jul 26 j 00:08	10° \mathbb{Q} 25'24	0.61222 AU
min. Earth dist.	583 Aug 13 j 16:38	27° \mathbb{Q} 18'09	0.63135 AU	inferior conj	584 Jul 29 j 04:25	7° \mathbb{Q} 39'16	-4°25'10
inferior conj	583 Aug 16 j 10:34	24° \mathbb{Q} 35'23	-3°44'25	minimum elong	584 Jul 29 j 08:39	7° \mathbb{Q} 30'00	4°24'29
minimum elong	583 Aug 16 j 15:31	24° \mathbb{Q} 23'07	3°43'07	morning rise	584 Aug 05 j 10:37	2° \mathbb{Q} 47'23	
morning rise	583 Aug 23 j 05:53	19° \mathbb{Q} 22'58		direct	584 Aug 07 j 21:31	2° \mathbb{Q} 22'49	
direct	583 Aug 25 j 18:13	18° \mathbb{Q} 53'10		morning max el	584 Aug 14 j 23:19	5° \mathbb{Q} 53'48	18°00'16
asc. node	583 Aug 29 j 03:41	19° \mathbb{Q} 48'32		asc. node	584 Aug 15 j 00:46	5° \mathbb{Q} 57'20	
morning max el	583 Sep 01 j 09:29	22° \mathbb{Q} 18'43	17°52'44		584 Aug 30 j 08:15	0° \mathbb{M}	
	583 Sep 07 j 08:15	0° \mathbb{M}		morning set	584 Aug 30 j 20:45	0° \mathbb{M} 57'35	
morning set	583 Sep 17 j 19:46	17° \mathbb{M} 46'35					
	583 Sep 24 j 20:10	0° $\underline{\mathbf{A}}$		superior conj	584 Sep 10 j 01:33	19° \mathbb{M} 26'42	1°21'02
superior conj	583 Sep 29 j 15:07	8° $\underline{\mathbf{A}}$ 06'25	0°50'33	minimum elong	584 Sep 10 j 06:03	19° \mathbb{M} 46'29	1°20'34
minimum elong	583 Sep 29 j 19:40	8° $\underline{\mathbf{A}}$ 25'22	0°49'57		584 Sep 16 j 05:03	0° $\underline{\mathbf{A}}$	

max. Earth dist.	584 Sep 17 j 14:50	2° Ω 20'57	1.42129 AU	evening rise	585 Sep 04 j 05:51	22° Π 38'27	
desc. node	584 Sep 23 j 06:43	11° Ω 33'36			585 Sep 08 j 18:05	0° Ω	
evening rise	584 Sep 23 j 17:01	12° Ω 14'35		desc. node	585 Sep 10 j 03:45	2° Ω 13'48	
	584 Oct 05 j 06:51	0° Π			585 Sep 29 j 06:33	0° Π	
evening max el	584 Oct 26 j 10:18	27° Π 56'10	22°17'45	evening max el	585 Oct 09 j 00:33	11° Π 28'45	23°37'41
	584 Oct 28 j 14:46	0° \mathcal{A}		retrograde	585 Oct 19 j 16:03	17° Π 45'35	
retrograde	584 Nov 04 j 23:15	3° \mathcal{A} 36'29		evening set	585 Oct 24 j 17:55	15° Π 38'58	
evening set	584 Nov 09 j 11:37	1° \mathcal{A} 47'41		asc. node	585 Oct 28 j 21:03	10° Π 58'26	
asc. node	584 Nov 10 j 23:59	0° \mathcal{A} 21'47		min. Earth dist.	585 Oct 29 j 15:32	9° Π 55'54	0.67657 AU
	584 Nov 11 j 07:58	30° $\mathcal{R}\Pi$		inferior conj	585 Oct 30 j 03:02	9° Π 16'42	0°25'47
inferior conj	584 Nov 14 j 19:58	25° Π 28'35	1°17'22	minimum elong	585 Oct 30 j 02:25	9° Π 18'47	0°25'31
minimum elong	584 Nov 14 j 18:16	25° Π 34'27	1°16'41	morning rise	585 Nov 04 j 10:51	3° Π 09'09	
min. Earth dist.	584 Nov 14 j 18:58	25° Π 32'01	0.67701 AU	direct	585 Nov 08 j 13:03	1° Π 35'09	
morning rise	584 Nov 20 j 00:46	19° Π 16'55		morning max el	585 Nov 16 j 21:59	6° Π 27'31	21°00'46
direct	584 Nov 24 j 17:02	17° Π 20'26			585 Dec 04 j 15:51	0° \mathcal{A}	
morning max el	584 Dec 04 j 04:58	22° Π 57'24	22°21'54	desc. node	585 Dec 07 j 02:59	3° \mathcal{A} 40'03	
	584 Dec 10 j 07:57	0° \mathcal{A}		morning set	585 Dec 16 j 23:45	18° \mathcal{A} 46'23	
desc. node	584 Dec 20 j 05:57	13° \mathcal{A} 30'51			585 Dec 24 j 01:02	0° \mathcal{B}	
	584 Dec 31 j 05:49	0° \mathcal{B}		max. Earth dist.	585 Dec 25 j 03:31	1° \mathcal{B} 47'36	1.42647 AU
morning set	585 Jan 06 j 16:33	10° \mathcal{B} 15'13					
max. Earth dist.	585 Jan 11 j 23:49	19° \mathcal{B} 02'27	1.40718 AU	superior conj	586 Jan 01 j 04:20	13° \mathcal{B} 29'51	-2°00'53
	585 Jan 18 j 07:46	0° \approx		minimum elong	586 Jan 01 j 01:53	13° \mathcal{B} 19'26	2°00'49
					586 Jan 10 j 15:18	0° \approx	
superior conj	585 Jan 19 j 19:14	2° \approx 38'09	-2°01'11	evening rise	586 Jan 12 j 19:10	3° \approx 51'59	
minimum elong	585 Jan 19 j 21:00	2° \approx 46'04	2°01'08	asc. node	586 Jan 24 j 20:22	24° \approx 24'24	
evening rise	585 Jan 29 j 22:43	21° \approx 22'36			586 Jan 29 j 05:50	0° \mathcal{H}	
	585 Feb 03 j 14:04	0° \mathcal{H}		evening max el	586 Jan 29 j 15:39	0° \mathcal{H} 24'56	18°07'38
asc. node	585 Feb 06 j 23:20	5° \mathcal{H} 58'48		retrograde	586 Feb 05 j 06:39	3° \mathcal{H} 49'44	
evening max el	585 Feb 15 j 04:49	17° \mathcal{H} 22'45	18°18'59	evening set	586 Feb 07 j 23:51	3° \mathcal{H} 15'15	
retrograde	585 Feb 22 j 09:09	20° \mathcal{H} 56'45			586 Feb 12 j 16:17	30° $\mathcal{R}\approx$	
evening set	585 Feb 24 j 21:36	20° \mathcal{H} 31'31		inferior conj	586 Feb 14 j 12:44	28° \approx 14'14	3°44'38
inferior conj	585 Mar 04 j 00:49	15° \mathcal{H} 51'47	3°18'48	minimum elong	586 Feb 14 j 13:51	28° \approx 11'29	3°44'34
minimum elong	585 Mar 04 j 04:05	15° \mathcal{H} 44'49	3°18'14	min. Earth dist.	586 Feb 17 j 14:39	25° \approx 14'20	0.61444 AU
min. Earth dist.	585 Mar 07 j 10:59	12° \mathcal{H} 58'34	0.59332 AU	morning rise	586 Feb 21 j 02:25	22° \approx 22'02	
morning rise	585 Mar 11 j 08:13	10° \mathcal{H} 16'29		direct	586 Feb 27 j 23:27	19° \approx 59'16	
direct	585 Mar 17 j 16:55	8° \mathcal{H} 27'31		desc. node	586 Mar 05 j 02:10	21° \approx 10'13	
desc. node	585 Mar 18 j 05:08	8° \mathcal{H} 28'13		morning max el	586 Mar 14 j 02:57	27° \approx 50'47	27°45'09
morning max el	585 Apr 01 j 00:33	16° \mathcal{H} 11'30	27°11'15		586 Mar 16 j 04:50	0° \mathcal{H}	
	585 Apr 12 j 07:41	0° \mathcal{Y}			586 Apr 06 j 00:31	0° \mathcal{Y}	
	585 Apr 29 j 14:35	0° \mathcal{B}		morning set	586 Apr 15 j 23:21	18° \mathcal{Y} 58'29	
morning set	585 May 01 j 18:15	4° \mathcal{B} 25'23			586 Apr 21 j 04:43	0° \mathcal{B}	
asc. node	585 May 05 j 22:38	13° \mathcal{B} 20'56		max. Earth dist.	586 Apr 21 j 22:53	1° \mathcal{B} 38'22	1.32466 AU
				asc. node	586 Apr 22 j 19:40	3° \mathcal{B} 31'21	
superior conj	585 May 08 j 20:43	19° \mathcal{B} 44'31	0°30'30				
minimum elong	585 May 08 j 19:24	19° \mathcal{B} 37'17	0°30'13	superior conj	586 Apr 23 j 07:24	4° \mathcal{B} 35'19	0°05'11
max. Earth dist.	585 May 08 j 11:43	18° \mathcal{B} 55'02	1.32288 AU	minimum elong	586 Apr 23 j 07:09	4° \mathcal{B} 34'00	0°05'09
	585 May 13 j 13:21	0° Π		behind sun begin	586 Apr 23 j 02:19	4° \mathcal{B} 07'35	
evening rise	585 May 15 j 18:07	4° Π 41'31		behind sun end	586 Apr 23 j 12:00	5° \mathcal{B} 00'27	
	585 May 29 j 05:30	0° \mathcal{E}		evening rise	586 Apr 30 j 05:24	19° \mathcal{B} 35'25	
evening max el	585 Jun 13 j 09:21	19° \mathcal{E} 45'39	26°08'43		586 May 05 j 07:50	0° Π	
desc. node	585 Jun 14 j 04:26	20° \mathcal{E} 30'07			586 May 25 j 08:27	0° \mathcal{E}	
retrograde	585 Jun 27 j 09:51	26° \mathcal{E} 57'40		evening max el	586 May 26 j 02:02	0° \mathcal{E} 43'05	24°47'48
evening set	585 Jul 03 j 17:30	25° \mathcal{E} 20'08		desc. node	586 Jun 01 j 01:27	5° \mathcal{E} 22'59	
min. Earth dist.	585 Jul 07 j 22:09	22° \mathcal{E} 42'25	0.59169 AU	retrograde	586 Jun 09 j 01:04	7° \mathcal{E} 47'47	
inferior conj	585 Jul 11 j 05:50	20° \mathcal{E} 11'42	-4°47'41	evening set	586 Jun 14 j 03:19	6° \mathcal{E} 48'52	
minimum elong	585 Jul 11 j 07:15	20° \mathcal{E} 09'02	4°47'38	min. Earth dist.	586 Jun 19 j 13:22	3° \mathcal{E} 58'15	0.57221 AU
morning rise	585 Jul 18 j 23:09	15° \mathcal{E} 42'20		inferior conj	586 Jun 22 j 11:42	2° \mathcal{E} 02'53	-4°39'59
direct	585 Jul 21 j 11:03	15° \mathcal{E} 21'02		minimum elong	586 Jun 22 j 08:21	2° \mathcal{E} 08'25	4°39'41
morning max el	585 Jul 29 j 07:57	19° \mathcal{E} 07'14	18°27'43		586 Jun 25 j 18:08	30° $\mathcal{R}\Pi$	
asc. node	585 Aug 01 j 21:50	23° \mathcal{E} 12'58		morning rise	586 Jun 30 j 16:09	27° Π 55'01	
	585 Aug 06 j 09:27	0° \mathcal{Q}		direct	586 Jul 03 j 06:29	27° Π 35'53	
morning set	585 Aug 14 j 10:45	14° \mathcal{Q} 46'43			586 Jul 10 j 02:56	0° \mathcal{E}	
	585 Aug 22 j 10:17	0° Π		morning max el	586 Jul 12 j 08:25	1° \mathcal{E} 49'49	19°16'08
				asc. node	586 Jul 19 j 18:53	11° \mathcal{E} 20'43	
superior conj	585 Aug 23 j 11:16	1° Π 56'15	1°39'01	morning set	586 Jul 29 j 09:52	29° \mathcal{E} 03'17	
minimum elong	585 Aug 23 j 13:58	2° Π 08'44	1°38'52		586 Jul 29 j 21:16	0° \mathcal{Q}	
max. Earth dist.	585 Aug 30 j 20:57	15° Π 12'59	1.40202 AU				

superior conj	586 Aug 06 j 14:34	15°♎19'03	1°46'19	minimum elong	587 Jul 21 j 05:27	29°♏15'13	1°44'58
minimum elong	586 Aug 06 j 15:12	15°♎22'09	1°46'19		587 Jul 21 j 14:17	0°♎	
max. Earth dist.	586 Aug 13 j 00:23	27°♎24'58	1.38169 AU	max. Earth dist.	587 Jul 26 j 06:22	9°♎14'44	1.36287 AU
	586 Aug 14 j 10:34	0°♎		evening rise	587 Jul 30 j 06:14	16°♎47'30	
evening rise	586 Aug 16 j 19:14	4°♎11'43			587 Aug 06 j 18:13	0°♎	
desc. node	586 Aug 28 j 00:46	22°♎44'35		desc. node	587 Aug 14 j 21:48	13°♎00'14	
	586 Sep 01 j 19:47	0°♎			587 Aug 27 j 04:53	0°♎	
evening max el	586 Sep 21 j 12:28	25°♎04'51	24°55'40	evening max el	587 Sep 04 j 00:00	8°♎42'08	26°04'21
	586 Sep 27 j 13:10	0°♎		retrograde	587 Sep 16 j 13:04	15°♎49'58	
retrograde	586 Oct 03 j 04:53	1°♎52'08		evening set	587 Sep 22 j 19:37	13°♎12'38	
	586 Oct 08 j 05:39	30°♎		min. Earth dist.	587 Sep 27 j 00:59	8°♎40'01	0.66577 AU
evening set	586 Oct 08 j 21:13	29°♎28'29		inferior conj	587 Sep 28 j 10:19	6°♎55'57	-1°25'41
min. Earth dist.	586 Oct 13 j 10:19	24°♎19'49	0.67285 AU	minimum elong	587 Sep 28 j 12:31	6°♎49'04	1°24'46
inferior conj	586 Oct 14 j 08:25	23°♎06'56	-0°29'03	asc. node	587 Oct 02 j 15:06	2°♎15'53	
minimum elong	586 Oct 14 j 09:08	23°♎04'33	0°28'45	morning rise	587 Oct 04 j 05:47	1°♎04'23	
asc. node	586 Oct 15 j 18:04	21°♎17'43		direct	587 Oct 07 j 09:18	0°♎07'38	
morning rise	586 Oct 19 j 21:11	17°♎06'02		morning max el	587 Oct 14 j 06:42	3°♎58'43	18°56'42
direct	586 Oct 23 j 10:59	15°♎52'22			587 Nov 01 j 12:44	0°♎	
morning max el	586 Oct 30 j 22:47	20°♎09'03	19°51'25	morning set	587 Nov 05 j 06:22	5°♎52'13	
	586 Nov 07 j 21:09	0°♎		desc. node	587 Nov 10 j 21:03	14°♎41'17	
desc. node	586 Nov 24 j 00:01	24°♎05'17		max. Earth dist.	587 Nov 20 j 06:59	29°♎28'10	1.44928 AU
morning set	586 Nov 25 j 20:07	26°♎55'24			587 Nov 20 j 15:05	0°♎	
	586 Nov 27 j 19:48	0°♎					
max. Earth dist.	586 Dec 07 j 14:46	15°♎22'21	1.44110 AU	superior conj	587 Nov 21 j 18:23	1°♎47'31	-1°07'53
				minimum elong	587 Nov 21 j 10:27	1°♎16'17	1°06'58
superior conj	586 Dec 12 j 10:48	23°♎08'16	-1°43'34	evening rise	587 Dec 07 j 00:45	26°♎11'39	
minimum elong	586 Dec 12 j 03:30	22°♎38'42	1°43'00		587 Dec 09 j 08:57	0°♎	
	586 Dec 16 j 15:32	0°♎		evening max el	587 Dec 27 j 15:39	27°♎04'33	18°41'40
evening rise	586 Dec 25 j 21:11	15°♎30'39		asc. node	587 Dec 29 j 14:24	28°♎50'50	
	587 Jan 03 j 10:41	0°♎			587 Dec 31 j 08:20	0°♎	
asc. node	587 Jan 11 j 17:23	12°♎05'57		retrograde	588 Jan 03 j 08:00	0°♎48'27	
evening max el	587 Jan 13 j 04:08	13°♎40'47	18°15'27	evening set	588 Jan 06 j 11:16	29°♎52'41	
retrograde	587 Jan 19 j 15:39	17°♎09'38			588 Jan 06 j 06:06	30°♎	
evening set	587 Jan 22 j 13:30	16°♎25'03		inferior conj	588 Jan 12 j 05:47	24°♎14'05	3°32'10
inferior conj	587 Jan 28 j 15:41	11°♎04'13	3°46'55	minimum elong	588 Jan 12 j 03:40	24°♎20'29	3°31'51
minimum elong	587 Jan 28 j 14:51	11°♎06'31	3°46'53	min. Earth dist.	588 Jan 14 j 02:23	21°♎59'21	0.65020 AU
min. Earth dist.	587 Jan 31 j 03:40	8°♎19'25	0.63392 AU	morning rise	588 Jan 17 j 19:38	18°♎05'39	
morning rise	587 Feb 03 j 15:24	5°♎01'44		direct	588 Jan 24 j 13:08	15°♎13'15	
direct	587 Feb 10 j 14:39	2°♎16'47		desc. node	588 Feb 06 j 20:14	22°♎58'59	
desc. node	587 Feb 19 j 23:12	6°♎12'26		morning max el	588 Feb 06 j 19:59	22°♎58'20	27°04'30
morning max el	587 Feb 24 j 10:25	10°♎09'55	27°41'48		588 Feb 13 j 02:00	0°♎	
	587 Mar 11 j 23:46	0°♎			588 Mar 04 j 06:19	0°♎	
	587 Mar 29 j 07:48	0°♎		morning set	588 Mar 13 j 11:10	16°♎46'47	
morning set	587 Mar 30 j 22:00	3°♎08'48		max. Earth dist.	588 Mar 18 j 00:25	25°♎48'18	1.34042 AU
max. Earth dist.	587 Apr 05 j 04:26	13°♎59'47	1.33037 AU		588 Mar 20 j 01:29	0°♎	
superior conj	587 Apr 07 j 15:14	19°♎13'18	-0°21'37	superior conj	588 Mar 21 j 18:15	3°♎32'20	-0°48'49
minimum elong	587 Apr 07 j 16:16	19°♎18'55	0°21'24	minimum elong	588 Mar 21 j 20:38	3°♎44'49	0°48'21
asc. node	587 Apr 09 j 16:42	23°♎39'58		asc. node	588 Mar 26 j 13:44	13°♎42'44	
	587 Apr 12 j 15:10	0°♎		evening rise	588 Mar 29 j 03:33	19°♎08'04	
evening rise	587 Apr 14 j 17:09	4°♎26'16			588 Apr 03 j 13:12	0°♎	
	587 Apr 28 j 13:55	0°♎		evening max el	588 Apr 18 j 11:22	21°♎57'07	21°40'26
evening max el	587 May 07 j 16:13	11°♎16'28	23°13'26	retrograde	588 Apr 30 j 20:18	27°♎59'50	
desc. node	587 May 18 j 22:27	17°♎49'05		evening set	588 May 03 j 08:17	27°♎45'46	
retrograde	587 May 21 j 04:13	18°♎00'31		desc. node	588 May 04 j 19:28	27°♎25'09	
evening set	587 May 24 j 19:02	17°♎31'45		inferior conj	588 May 12 j 18:15	23°♎43'36	-2°14'13
min. Earth dist.	587 Jun 01 j 01:57	14°♎14'13	0.55719 AU	minimum elong	588 May 12 j 12:13	23°♎52'03	2°12'14
inferior conj	587 Jun 02 j 21:48	13°♎09'54	-3°49'27	min. Earth dist.	588 May 12 j 14:40	23°♎48'36	0.54991 AU
minimum elong	587 Jun 02 j 14:37	13°♎20'28	3°47'48	morning rise	588 May 21 j 17:02	19°♎46'43	
morning rise	587 Jun 11 j 12:53	9°♎15'32		direct	588 May 24 j 18:23	19°♎26'11	
direct	587 Jun 14 j 06:37	8°♎57'26		morning max el	588 Jun 06 j 01:21	25°♎14'02	21°53'22
morning max el	587 Jun 24 j 22:27	13°♎53'19	20°25'29		588 Jun 10 j 10:56	0°♎	
asc. node	587 Jul 06 j 15:55	0°♎08'27		asc. node	588 Jun 22 j 12:59	19°♎26'31	
	587 Jul 06 j 14:02	0°♎		morning set	588 Jun 27 j 00:32	28°♎28'45	
morning set	587 Jul 13 j 15:10	13°♎39'13			588 Jun 27 j 18:02	0°♎	
superior conj	587 Jul 21 j 06:27	29°♎20'17	1°45'00	superior conj	588 Jul 04 j 07:07	13°♎48'56	1°36'52

minimum elong	588 Jul 04 j 05:06	13°♄38'20	1°36'41			589 Jun 04 j 18:20	0°♄	
max. Earth dist.	588 Jul 07 j 20:30	21°♄10'21	1.34727 AU	asc. node		589 Jun 09 j 10:03	9°♄06'03	
evening rise	588 Jul 12 j 10:07	0°♄13'52		morning set		589 Jun 11 j 12:00	13°♄25'04	
	588 Jul 12 j 07:15	0°♄						
	588 Jul 29 j 19:39	0°♄		superior conj		589 Jun 18 j 13:36	28°♄34'35	1°23'19
desc. node	588 Jul 31 j 18:49	2°♄54'03		minimum elong		589 Jun 18 j 11:09	28°♄21'26	1°22'59
evening max el	588 Aug 16 j 12:05	22°♄15'27	26°55'52			589 Jun 19 j 05:32	0°♄	
retrograde	588 Aug 29 j 16:00	29°♄32'42		max. Earth dist.		589 Jun 20 j 20:18	3°♄26'32	1.33550 AU
evening set	588 Sep 05 j 10:55	26°♄48'09		evening rise		589 Jun 26 j 02:18	14°♄16'30	
min. Earth dist.	588 Sep 09 j 09:13	22°♄52'22	0.65525 AU			589 Jul 04 j 10:39	0°♄	
inferior conj	588 Sep 11 j 06:44	20°♄40'31	-2°22'12	desc. node		589 Jul 18 j 15:50	22°♄15'49	
minimum elong	588 Sep 11 j 10:22	20°♄29'57	2°20'50			589 Jul 24 j 18:20	0°♄	
morning rise	588 Sep 17 j 10:27	15°♄01'19		evening max el		589 Jul 29 j 23:39	5°♄33'09	27°23'01
asc. node	588 Sep 18 j 12:09	14°♄34'32		retrograde		589 Aug 12 j 13:00	12°♄51'52	
direct	588 Sep 20 j 06:08	14°♄17'40		evening set		589 Aug 19 j 16:16	10°♄09'37	
morning max el	588 Sep 26 j 19:47	17°♄52'14	18°18'08	min. Earth dist.		589 Aug 23 j 08:45	6°♄48'54	0.64111 AU
	588 Oct 05 j 19:35	0°♄		inferior conj		589 Aug 25 j 19:13	4°♄15'02	-3°16'03
morning set	588 Oct 15 j 20:29	16°♄13'23		minimum elong		589 Aug 25 j 23:56	4°♄02'37	3°14'36
	588 Oct 24 j 08:47	0°♄				589 Aug 30 j 09:10	30°♄	
desc. node	588 Oct 27 j 18:06	5°♄24'17		morning rise		589 Sep 01 j 08:32	28°♄51'40	
				direct		589 Sep 03 j 22:54	28°♄17'34	
superior conj	588 Oct 30 j 19:38	10°♄15'29	-0°20'11	asc. node		589 Sep 05 j 09:14	28°♄28'02	
minimum elong	588 Oct 30 j 17:00	10°♄05'06	0°19'49			589 Sep 08 j 11:38	0°♄	
max. Earth dist.	588 Nov 02 j 01:35	13°♄48'08	1.45020 AU	morning max el		589 Sep 10 j 11:27	1°♄43'55	17°56'49
	588 Nov 12 j 09:48	0°♄		morning set		589 Sep 27 j 14:08	27°♄54'44	
evening rise	588 Nov 16 j 04:51	5°♄55'53				589 Sep 28 j 19:27	0°♄	
greatest brilliancy	588 Nov 27 j 12:45	23°♄32'51	-0.7m					
	588 Dec 01 j 20:04	0°♄		superior conj		589 Oct 10 j 12:01	19°♄31'20	0°27'20
evening max el	588 Dec 10 j 00:02	10°♄32'26	19°24'55	minimum elong		589 Oct 10 j 15:01	19°♄43'30	0°26'54
asc. node	588 Dec 15 j 11:26	14°♄24'37		desc. node		589 Oct 14 j 15:09	26°♄10'57	
retrograde	588 Dec 17 j 04:17	14°♄40'41		max. Earth dist.		589 Oct 15 j 19:50	28°♄05'18	1.44381 AU
evening set	588 Dec 20 j 14:27	13°♄32'11				589 Oct 17 j 00:43	0°♄	
inferior conj	588 Dec 26 j 03:45	7°♄38'15	3°05'00	evening rise		589 Oct 26 j 15:43	15°♄01'10	
minimum elong	588 Dec 26 j 01:03	7°♄46'58	3°04'21			589 Nov 05 j 11:55	0°♄	
min. Earth dist.	588 Dec 27 j 09:42	6°♄01'21	0.66260 AU	evening max el		589 Nov 23 j 03:31	24°♄01'45	20°23'11
morning rise	588 Dec 31 j 11:24	1°♄26'31		retrograde		589 Dec 01 j 02:02	28°♄42'12	
	589 Jan 02 j 08:46	30°♄		asc. node		589 Dec 02 j 08:28	28°♄33'06	
direct	589 Jan 06 j 17:41	28°♄40'15		evening set		589 Dec 04 j 20:52	27°♄19'14	
	589 Jan 11 j 13:08	0°♄		inferior conj		589 Dec 10 j 06:56	21°♄12'43	2°28'35
morning max el	589 Jan 19 j 05:15	6°♄03'49	26°00'37	minimum elong		589 Dec 10 j 04:16	21°♄21'45	2°27'44
desc. node	589 Jan 23 j 17:17	11°♄00'05		min. Earth dist.		589 Dec 10 j 23:43	20°♄15'55	0.67104 AU
	589 Feb 06 j 17:41	0°♄		morning rise		589 Dec 15 j 11:29	14°♄59'36	
morning set	589 Feb 24 j 10:44	29°♄39'40		direct		589 Dec 21 j 03:31	12°♄29'12	
	589 Feb 24 j 15:07	0°♄		morning max el		590 Jan 01 j 13:43	19°♄17'46	24°39'48
max. Earth dist.	589 Feb 28 j 08:38	7°♄03'51	1.35514 AU	desc. node		590 Jan 10 j 14:20	29°♄53'59	
						590 Jan 10 j 16:11	0°♄	
superior conj	589 Mar 05 j 13:59	17°♄24'47	-1°15'00			590 Jan 30 j 20:46	0°♄	
minimum elong	589 Mar 05 j 17:30	17°♄42'35	1°14'27	morning set		590 Feb 06 j 15:19	11°♄32'32	
	589 Mar 11 j 16:59	0°♄		max. Earth dist.		590 Feb 10 j 07:13	18°♄07'01	1.37395 AU
evening rise	589 Mar 13 j 10:38	3°♄34'08						
asc. node	589 Mar 13 j 10:46	3°♄34'53		superior conj		590 Feb 16 j 23:17	0°♄42'08	-1°38'08
	589 Mar 28 j 19:39	0°♄		minimum elong		590 Feb 17 j 03:17	1°♄01'33	1°37'41
evening max el	589 Mar 31 j 16:43	3°♄07'52	20°19'40			590 Feb 16 j 14:36	0°♄	
retrograde	589 Apr 11 j 09:41	8°♄17'21		evening rise		590 Feb 25 j 12:07	17°♄38'13	
evening set	589 Apr 13 j 11:58	8°♄06'21		asc. node		590 Feb 28 j 07:50	23°♄11'50	
desc. node	589 Apr 21 j 16:30	4°♄39'27				590 Mar 03 j 22:35	0°♄	
inferior conj	589 Apr 22 j 13:43	4°♄08'27	-0°15'17	evening max el		590 Mar 14 j 09:22	14°♄57'17	19°16'58
minimum elong	589 Apr 22 j 13:00	4°♄09'29	0°15'02	retrograde		590 Mar 23 j 10:05	19°♄18'20	
transit middle	589 Apr 22 j 13:00	4°♄09'29	0°15'02	evening set		590 Mar 25 j 14:06	19°♄04'23	
transit begin	589 Apr 22 j 11:41	4°♄11'25		inferior conj		590 Apr 02 j 22:13	14°♄55'10	1°33'20
transit end	589 Apr 22 j 14:19	4°♄07'33		minimum elong		590 Apr 03 j 01:42	14°♄49'19	1°32'13
min. Earth dist.	589 Apr 24 j 04:03	3°♄12'14	0.55223 AU	min. Earth dist.		590 Apr 05 j 18:51	13°♄01'27	0.56360 AU
	589 Apr 30 j 23:22	30°♄		desc. node		590 Apr 08 j 13:31	11°♄22'24	
morning rise	589 May 01 j 12:32	29°♄50'38		morning rise		590 Apr 11 j 10:28	10°♄04'38	
direct	589 May 05 j 06:41	29°♄19'59		direct		590 Apr 16 j 05:29	9°♄11'51	
	589 May 09 j 11:58	0°♄		morning max el		590 Apr 30 j 09:50	16°♄25'47	25°12'33
morning max el	589 May 18 j 19:17	5°♄57'19	23°33'10			590 May 11 j 09:46	0°♄	

morning set	590 May 26 j 23:55	28° C 22'49		591 Apr 14 j 21:07	0° Y	
asc. node	590 May 27 j 07:08	29° C 00'52		591 May 04 j 18:55	0° C	
	590 May 27 j 18:17	0° II		morning set	591 May 11 j 10:37	13° C 16'21
				asc. node	591 May 14 j 04:11	19° C 05'37
superior conj	590 Jun 02 j 23:37	13° II 29'56	1°05'25			
minimum elong	590 Jun 02 j 21:16	13° II 17'08	1°05'01	superior conj	591 May 18 j 11:14	28° C 28'41 0°44'04
max. Earth dist.	590 Jun 04 j 03:46	16° II 03'21	1.32761 AU	minimum elong	591 May 18 j 09:26	28° C 18'47 0°43'43
evening rise	590 Jun 10 j 03:09	28° II 44'28		max. Earth dist.	591 May 18 j 15:33	28° C 52'25 1.32347 AU
	590 Jun 10 j 17:54	0° C			591 May 19 j 03:52	0° II
	590 Jun 27 j 15:08	0° O		evening rise	591 May 25 j 09:49	13° II 28'45
desc. node	590 Jul 05 j 12:52	10° O 52'08			591 Jun 02 j 19:53	0° C
evening max el	590 Jul 12 j 08:15	18° O 21'11	27°19'56	desc. node	591 Jun 22 j 09:52	28° C 24'14
retrograde	590 Jul 26 j 03:27	25° O 38'16			591 Jun 23 j 23:39	0° O
evening set	590 Aug 02 j 08:00	23° O 10'44		evening max el	591 Jun 24 j 11:21	0° O 28'13 26°43'49
min. Earth dist.	590 Aug 05 j 21:57	20° O 18'18	0.62355 AU	retrograde	591 Jul 08 j 10:41	7° O 43'15
inferior conj	590 Aug 08 j 20:49	17° O 32'17	-4°03'19	evening set	591 Jul 15 j 05:41	5° O 44'04
minimum elong	590 Aug 09 j 01:40	17° O 20'52	4°02'14	min. Earth dist.	591 Jul 19 j 00:56	3° O 06'17 0.60348 AU
morning rise	590 Aug 15 j 20:42	12° O 28'17		inferior conj	591 Jul 22 j 08:05	0° O 23'54 -4°37'37
direct	590 Aug 18 j 08:15	12° O 00'52		minimum elong	591 Jul 22 j 11:24	0° O 17'03 4°37'14
asc. node	590 Aug 23 j 06:19	13° O 51'19			591 Jul 22 j 19:42	30° R C
morning max el	590 Aug 25 j 02:49	15° O 27'14	17°53'38	morning rise	591 Jul 29 j 19:03	25° C 41'56
	590 Sep 04 j 05:35	0° II		direct	591 Aug 01 j 06:07	25° C 18'58
morning set	590 Sep 10 j 05:23	10° II 37'56		morning max el	591 Aug 08 j 14:54	28° C 54'52 18°09'34
					591 Aug 09 j 16:19	0° O
superior conj	590 Sep 21 j 06:59	0° O 06'18	1°05'04	asc. node	591 Aug 10 j 03:23	0° O 30'45
minimum elong	590 Sep 21 j 11:52	0° O 27'03	1°04'29	morning set	591 Aug 24 j 12:28	24° O 06'57
	590 Sep 21 j 05:31	0° O			591 Aug 27 j 15:42	0° II
max. Earth dist.	590 Sep 28 j 10:23	12° O 00'09	1.43095 AU			
desc. node	590 Oct 01 j 12:11	16° O 57'49		superior conj	591 Sep 03 j 04:06	11° II 58'56 1°30'06
evening rise	590 Oct 06 j 00:22	24° O 05'06		minimum elong	591 Sep 03 j 07:56	12° II 16'11 1°29'46
	590 Oct 09 j 20:10	0° III		max. Earth dist.	591 Sep 10 j 19:11	25° II 16'34 1.41330 AU
	590 Oct 30 j 15:48	0° J			591 Sep 13 j 15:07	0° O
evening max el	590 Nov 06 j 01:11	7° J 30'53	21°33'26	evening rise	591 Sep 15 j 23:55	3° O 52'04
retrograde	590 Nov 14 j 23:06	12° J 49'02		desc. node	591 Sep 18 j 09:13	7° O 41'55
evening set	590 Nov 19 j 04:34	11° J 09'53			591 Oct 03 j 04:04	0° III
asc. node	590 Nov 19 j 05:32	11° J 07'57		evening max el	591 Oct 19 j 17:34	21° III 01'45 22°51'27
inferior conj	590 Nov 24 j 13:05	4° J 54'10	1°45'01	retrograde	591 Oct 29 j 17:59	26° III 58'43
minimum elong	590 Nov 24 j 10:56	5° J 01'38	1°44'12	evening set	591 Nov 03 j 11:52	25° III 02'16
min. Earth dist.	590 Nov 24 j 18:13	4° J 36'26	0.67581 AU	asc. node	591 Nov 06 j 02:35	22° III 19'24
	590 Nov 28 j 09:00	30° R III		inferior conj	591 Nov 08 j 20:21	18° III 41'02 0°55'59
morning rise	590 Nov 29 j 17:09	28° III 41'22		minimum elong	591 Nov 08 j 19:05	18° III 45'26 0°55'27
direct	590 Dec 04 j 17:53	26° III 32'09		min. Earth dist.	591 Nov 08 j 14:49	19° III 00'11 0.67721 AU
	590 Dec 12 j 03:25	0° J		morning rise	591 Nov 14 j 02:12	12° III 30'45
morning max el	590 Dec 14 j 22:59	2° J 36'18	23°11'55	direct	591 Nov 18 j 12:12	10° III 44'10
desc. node	590 Dec 28 j 11:22	19° J 24'52		morning max el	591 Nov 27 j 12:19	16° III 01'50 21°46'10
	591 Jan 04 j 18:41	0° C			591 Dec 08 j 18:57	0° J
morning set	591 Jan 18 j 18:34	22° C 08'18		desc. node	591 Dec 15 j 08:25	9° J 22'40
max. Earth dist.	591 Jan 23 j 02:28	29° C 30'38	1.39505 AU		591 Dec 28 j 20:26	0° C
	591 Jan 23 j 09:14	0° O		morning set	591 Dec 29 j 16:36	1° C 20'12
				max. Earth dist.	592 Jan 05 j 01:23	11° C 41'47 1.41582 AU
superior conj	591 Jan 30 j 17:54	13° O 12'29	-1°55'24			
minimum elong	591 Jan 30 j 21:04	13° O 27'06	1°55'12	superior conj	592 Jan 12 j 16:46	24° C 43'53 -2°02'52
	591 Feb 08 j 14:11	0° H		minimum elong	592 Jan 12 j 17:00	24° C 44'54 2°02'52
evening rise	591 Feb 09 j 05:08	1° H 11'53			592 Jan 15 j 16:13	0° O
asc. node	591 Feb 15 j 04:52	12° H 27'04		evening rise	592 Jan 23 j 10:15	14° O 07'19
evening max el	591 Feb 25 j 11:26	27° H 21'31	18°34'18		592 Feb 01 j 07:49	0° H
	591 Feb 28 j 23:07	0° Y		asc. node	592 Feb 02 j 01:53	1° H 13'31
retrograde	591 Mar 05 j 04:51	1° Y 08'19		evening max el	592 Feb 08 j 20:00	10° H 12'49 18°11'44
evening set	591 Mar 07 j 14:02	0° Y 47'57		retrograde	592 Feb 15 j 17:30	13° H 41'16
	591 Mar 09 j 15:40	30° R H		evening set	592 Feb 18 j 07:55	13° H 12'22
inferior conj	591 Mar 15 j 03:06	26° H 20'05	2°50'20	inferior conj	592 Feb 25 j 04:37	8° H 23'43 3°33'06
minimum elong	591 Mar 15 j 07:12	26° H 12'05	2°49'22	minimum elong	592 Feb 25 j 07:00	8° H 18'17 3°32'48
min. Earth dist.	591 Mar 18 j 12:52	23° H 42'04	0.58144 AU	min. Earth dist.	592 Feb 28 j 12:27	5° H 24'16 0.60236 AU
morning rise	591 Mar 22 j 21:31	20° H 58'09		morning rise	592 Mar 03 j 04:03	2° H 39'54
desc. node	591 Mar 26 j 10:33	19° H 44'52		direct	592 Mar 09 j 19:16	0° H 35'15
direct	591 Mar 28 j 18:08	19° H 31'10		desc. node	592 Mar 12 j 07:35	0° H 52'19
morning max el	591 Apr 12 j 02:57	27° H 07'57	26°36'01	morning max el	592 Mar 24 j 01:49	8° H 24'12 27°30'10

	592 Apr 09 j 13:07	0°♿		desc. node	593 Feb 27 j 04:37	14°♿38'59	
morning set	592 Apr 24 j 18:19	27°♿59'05		morning max el	593 Mar 06 j 06:29	20°♿21'17	27°48'05
	592 Apr 25 j 17:31	0°♿			593 Mar 14 j 13:54	0°♿	
asc. node	592 Apr 30 j 01:12	9°♿15'23			593 Apr 02 j 11:46	0°♿	
max. Earth dist.	592 May 01 j 03:54	11°♿41'09	1.32309 AU	morning set	593 Apr 08 j 20:59	12°♿24'05	
				max. Earth dist.	593 Apr 14 j 13:01	24°♿16'43	1.32657 AU
superior conj	592 May 01 j 22:44	13°♿24'26	0°19'59				
minimum elong	592 May 01 j 21:51	13°♿19'32	0°19'48	superior conj	593 Apr 16 j 08:28	28°♿11'25	-0°06'04
evening rise	592 May 08 j 19:59	28°♿21'20		minimum elong	593 Apr 16 j 08:45	28°♿12'59	0°06'00
	592 May 09 j 14:44	0°♿		behind sun begin	593 Apr 16 j 03:57	27°♿46'54	
	592 May 26 j 11:17	0°♿		behind sun end	593 Apr 16 j 13:34	28°♿39'05	
evening max el	592 Jun 05 j 07:35	11°♿49'28	25°36'58	asc. node	593 Apr 16 j 22:13	29°♿26'08	
desc. node	592 Jun 08 j 06:53	14°♿25'03			593 Apr 17 j 04:27	0°♿	
retrograde	592 Jun 19 j 08:40	19°♿00'07		evening rise	593 Apr 23 j 07:43	13°♿15'28	
evening set	592 Jun 25 j 04:57	17°♿39'16			593 May 01 j 19:08	0°♿	
min. Earth dist.	592 Jun 29 j 19:50	14°♿57'54	0.58296 AU	evening max el	593 May 17 j 22:39	22°♿34'34	24°08'31
inferior conj	592 Jul 03 j 01:27	12°♿39'43	-4°49'01	desc. node	593 May 26 j 03:52	28°♿20'24	
minimum elong	592 Jul 03 j 00:59	12°♿40'33	4°49'00	retrograde	593 May 31 j 18:44	29°♿32'12	
morning rise	592 Jul 10 j 23:31	8°♿20'02		evening set	593 Jun 05 j 05:43	28°♿48'07	
direct	592 Jul 13 j 12:04	7°♿59'57		min. Earth dist.	593 Jun 11 j 09:47	25°♿47'23	0.56507 AU
morning max el	592 Jul 21 j 20:27	11°♿56'40	18°45'47	inferior conj	593 Jun 13 j 22:42	24°♿12'34	-4°24'23
asc. node	592 Jul 27 j 00:25	18°♿10'15		minimum elong	593 Jun 13 j 17:21	24°♿20'58	4°23'33
	592 Aug 03 j 00:48	0°♿		morning rise	593 Jun 22 j 07:44	20°♿11'27	
morning set	592 Aug 07 j 06:43	8°♿08'36		direct	593 Jun 24 j 23:20	19°♿52'54	
				morning max el	593 Jul 04 j 16:38	24°♿23'28	19°43'05
superior conj	592 Aug 15 j 21:56	24°♿52'58	1°43'18		593 Jul 09 j 13:41	0°♿	
minimum elong	592 Aug 15 j 23:44	25°♿01'28	1°43'13	asc. node	593 Jul 13 j 21:29	6°♿36'34	
	592 Aug 18 j 15:35	0°♿		morning set	593 Jul 22 j 08:47	22°♿34'16	
max. Earth dist.	592 Aug 22 j 23:04	7°♿48'07	1.39327 AU		593 Jul 26 j 00:51	0°♿	
evening rise	592 Aug 26 j 23:16	14°♿45'40					
desc. node	592 Sep 04 j 06:15	28°♿18'45		superior conj	593 Jul 30 j 07:05	8°♿33'18	1°46'42
	592 Sep 05 j 08:09	0°♿		minimum elong	593 Jul 30 j 06:58	8°♿32'41	1°46'41
	592 Sep 27 j 00:27	0°♿		max. Earth dist.	593 Aug 05 j 02:51	19°♿47'27	1.37342 AU
evening max el	592 Oct 01 j 06:30	4°♿35'50	24°11'32	evening rise	593 Aug 08 j 22:26	26°♿47'01	
retrograde	592 Oct 12 j 09:17	11°♿07'11			593 Aug 10 j 17:56	0°♿	
evening set	592 Oct 17 j 17:06	8°♿53'19		desc. node	593 Aug 22 j 03:15	18°♿43'41	
min. Earth dist.	592 Oct 22 j 11:02	3°♿24'22	0.67535 AU		593 Aug 29 j 19:24	0°♿	
asc. node	592 Oct 22 j 23:36	2°♿41'56		evening max el	593 Sep 13 j 18:17	18°♿13'28	25°26'35
inferior conj	592 Oct 23 j 02:55	2°♿30'44	0°02'52	retrograde	593 Sep 25 j 20:06	25°♿10'15	
minimum elong	592 Oct 23 j 02:51	2°♿30'59	0°02'50	evening set	593 Oct 01 j 18:32	22°♿40'31	
transit middle	592 Oct 23 j 02:51	2°♿30'59	0°02'50	min. Earth dist.	593 Oct 06 j 04:23	17°♿46'51	0.67025 AU
transit begin	592 Oct 23 j 00:10	2°♿40'03		inferior conj	593 Oct 07 j 07:04	16°♿20'42	-0°52'57
transit end	592 Oct 23 j 05:32	2°♿21'54		minimum elong	593 Oct 07 j 08:24	16°♿16'22	0°52'22
	592 Oct 25 j 00:46	30°♿♿		asc. node	593 Oct 09 j 20:39	13°♿10'55	
morning rise	592 Oct 28 j 12:36	26°♿25'24		morning rise	593 Oct 12 j 22:27	10°♿23'14	
direct	592 Nov 01 j 09:15	25°♿00'21		direct	593 Oct 16 j 07:41	9°♿17'01	
morning max el	592 Nov 09 j 08:29	29°♿36'43	20°29'33	morning max el	593 Oct 23 j 12:22	13°♿21'26	19°26'13
	592 Nov 09 j 17:35	0°♿			593 Nov 04 j 23:34	0°♿	
desc. node	592 Dec 01 j 05:29	29°♿39'39		morning set	593 Nov 16 j 15:47	17°♿55'09	
	592 Dec 01 j 10:50	0°♿		desc. node	593 Nov 18 j 02:31	20°♿09'59	
morning set	592 Dec 07 j 16:16	9°♿33'25			593 Nov 24 j 09:51	0°♿	
max. Earth dist.	592 Dec 17 j 07:54	24°♿48'04	1.43340 AU	max. Earth dist.	593 Nov 29 j 21:51	8°♿39'15	1.44546 AU
	592 Dec 20 j 12:45	0°♿					
superior conj	592 Dec 23 j 14:49	5°♿05'25	-1°55'49	superior conj	593 Dec 03 j 10:26	14°♿15'23	-1°30'31
minimum elong	592 Dec 23 j 10:10	4°♿46'03	1°55'36	minimum elong	593 Dec 03 j 02:04	13°♿41'58	1°29'43
evening rise	593 Jan 04 j 23:24	26°♿16'25			593 Dec 13 j 03:26	0°♿	
	593 Jan 07 j 02:20	0°♿		evening rise	593 Dec 17 j 16:14	7°♿31'07	
asc. node	593 Jan 18 j 22:54	19°♿22'24			593 Dec 31 j 12:47	0°♿	
evening max el	593 Jan 22 j 07:59	23°♿22'47	18°08'41	asc. node	594 Jan 05 j 19:56	6°♿41'58	
retrograde	593 Jan 28 j 20:19	26°♿47'29		evening max el	594 Jan 05 j 20:26	6°♿43'14	18°24'26
evening set	593 Jan 31 j 15:29	26°♿08'48		retrograde	594 Jan 12 j 08:52	10°♿16'53	
inferior conj	593 Feb 06 j 23:27	20°♿59'28	3°48'00	evening set	594 Jan 15 j 09:01	9°♿27'31	
minimum elong	593 Feb 06 j 23:40	20°♿58'52	3°48'00	inferior conj	594 Jan 21 j 07:35	3°♿58'48	3°42'24
min. Earth dist.	593 Feb 09 j 19:59	18°♿03'29	0.62309 AU	minimum elong	594 Jan 21 j 06:07	4°♿03'01	3°42'16
morning rise	593 Feb 13 j 06:43	15°♿02'24		min. Earth dist.	594 Jan 23 j 12:59	1°♿25'42	0.64135 AU
direct	593 Feb 20 j 06:03	12°♿28'09			594 Jan 24 j 20:42	30°♿♿	
				morning rise	594 Jan 27 j 02:40	27°♿53'42	

direct	594 Feb 03 j 00:23	25° Z 03'56		morning rise	595 Jan 10 j 12:15	11° Z 05'42	
	594 Feb 13 j 11:41	0° \approx		direct	595 Jan 17 j 01:22	8° Z 14'50	
desc. node	594 Feb 14 j 01:40	0° \approx 30'01		morning max el	595 Jan 30 j 00:55	15° Z 52'09	26°40'07
morning max el	594 Feb 16 j 15:02	2° \approx 54'02	27°29'42	desc. node	595 Jan 31 j 22:44	17° Z 51'47	
	594 Mar 08 j 22:02	0° X			595 Feb 10 j 17:29	0° \approx	
morning set	594 Mar 23 j 16:00	26° X 21'56			595 Mar 01 j 17:18	0° X	
	594 Mar 25 j 11:46	0° Y		morning set	595 Mar 06 j 23:59	9° X 42'33	
max. Earth dist.	594 Mar 28 j 15:02	6° Y 25'47	1.33417 AU	max. Earth dist.	595 Mar 11 j 06:29	18° X 01'05	1.34623 AU
superior conj	594 Mar 31 j 14:32	12° Y 42'23	-0°33'10	superior conj	595 Mar 15 j 14:48	26° X 51'03	-1°00'08
minimum elong	594 Mar 31 j 16:09	12° Y 50'59	0°32'50	minimum elong	595 Mar 15 j 17:42	27° X 06'05	0°59'37
asc. node	594 Apr 03 j 19:15	19° Y 32'54			595 Mar 17 j 03:10	0° Y	
evening rise	594 Apr 07 j 19:08	28° Y 03'38		asc. node	595 Mar 21 j 16:17	9° Y 31'45	
	594 Apr 08 j 17:23	0° Z		evening rise	595 Mar 23 j 04:25	12° Y 39'50	
	594 Apr 26 j 15:42	0° II			595 Apr 01 j 04:54	0° Z	
evening max el	594 Apr 29 j 14:07	3° II 07'18	22°32'50	evening max el	595 Apr 11 j 13:01	13° Z 57'59	21°03'55
retrograde	594 May 12 j 16:09	9° II 35'29		retrograde	595 Apr 23 j 05:53	19° Z 39'01	
desc. node	594 May 13 j 00:52	9° II 35'12		evening set	595 Apr 25 j 11:46	19° Z 27'12	
evening set	594 May 15 j 17:59	9° II 14'41		desc. node	595 Apr 29 j 21:55	18° Z 02'50	
min. Earth dist.	594 May 23 j 21:52	5° II 42'20	0.55309 AU	inferior conj	595 May 04 j 19:53	15° Z 28'30	-1°24'35
inferior conj	594 May 25 j 01:44	5° II 02'45	-3°13'47	minimum elong	595 May 04 j 15:53	15° Z 34'08	1°23'10
minimum elong	594 May 24 j 18:18	5° II 13'20	3°11'43	min. Earth dist.	595 May 05 j 10:35	15° Z 07'43	0.54975 AU
morning rise	594 Jun 02 j 20:43	1° II 09'47		morning rise	595 May 13 j 19:59	11° Z 25'07	
direct	594 Jun 05 j 17:13	0° II 51'05		direct	595 May 17 j 03:02	11° Z 01'41	
morning max el	594 Jun 17 j 01:43	6° II 07'56	21°00'54	morning max el	595 May 30 j 00:23	17° Z 11'06	22°35'05
asc. node	594 Jun 30 j 18:32	25° II 38'12			595 Jun 09 j 05:03	0° II	
	594 Jul 03 j 01:21	0° III		asc. node	595 Jun 17 j 15:35	15° II 06'06	
morning set	594 Jul 06 j 16:05	7° III 16'47		morning set	595 Jun 21 j 02:32	22° II 09'51	
					595 Jun 24 j 19:16	0° III	
superior conj	594 Jul 14 j 03:06	22° III 47'11	1°42'17	superior conj	595 Jun 28 j 06:34	7° III 24'04	1°31'42
minimum elong	594 Jul 14 j 01:36	22° III 39'25	1°42'12	minimum elong	595 Jun 28 j 04:18	7° III 12'01	1°31'28
	594 Jul 17 j 16:26	0° IV		max. Earth dist.	595 Jul 01 j 06:29	13° III 41'25	1.34174 AU
max. Earth dist.	594 Jul 18 j 12:14	1° IV 38'19	1.35581 AU	evening rise	595 Jul 06 j 02:45	23° III 28'23	
evening rise	594 Jul 22 j 17:11	9° IV 45'36			595 Jul 09 j 12:30	0° IV	
	594 Aug 03 j 07:23	0° V		desc. node	595 Jul 26 j 21:16	28° IV 32'29	
desc. node	594 Aug 09 j 00:15	8° V 50'59			595 Jul 27 j 22:12	0° V	
	594 Aug 25 j 10:16	0° VI		evening max el	595 Aug 09 j 17:59	15° V 17'31	27°10'47
evening max el	594 Aug 27 j 06:10	1° VI 50'23	26°28'52	retrograde	595 Aug 23 j 02:24	22° V 36'34	
retrograde	594 Sep 09 j 01:55	9° VI 02'41		evening set	595 Aug 30 j 01:40	19° V 51'15	
evening set	594 Sep 15 j 14:13	6° VI 21'17		min. Earth dist.	595 Sep 02 j 21:07	16° V 11'12	0.64963 AU
min. Earth dist.	594 Sep 19 j 16:30	2° VI 04'34	0.66173 AU	inferior conj	595 Sep 05 j 00:14	13° V 48'47	-2°45'36
inferior conj	594 Sep 21 j 06:54	0° VI 08'16	-1°49'48	minimum elong	595 Sep 05 j 04:24	13° V 37'10	2°44'09
minimum elong	594 Sep 21 j 09:44	29° VI 59'41	1°48'40	morning rise	595 Sep 11 j 07:56	8° V 16'16	
	594 Sep 21 j 09:38	30° VI 17		asc. node	595 Sep 13 j 14:48	7° V 38'08	
asc. node	594 Sep 26 j 17:43	24° VI 39'50		direct	595 Sep 14 j 01:01	7° V 37'10	
morning rise	594 Sep 27 j 05:42	24° VI 21'43		morning max el	595 Sep 20 j 13:24	11° V 07'10	18°07'01
direct	594 Sep 30 j 05:40	23° VI 30'53			595 Oct 03 j 14:32	0° VI	
morning max el	594 Oct 06 j 22:49	27° VI 13'29	18°38'21	morning set	595 Oct 08 j 15:36	8° VI 23'31	
	594 Oct 09 j 10:02	0° VII			595 Oct 21 j 20:57	0° VII	
morning set	594 Oct 27 j 13:18	27° VI 27'01		superior conj	595 Oct 22 j 17:59	1° VII 23'59	0°00'44
	594 Oct 29 j 03:42	0° VIII		minimum elong	595 Oct 22 j 18:05	1° VII 24'20	0°00'43
desc. node	594 Nov 04 j 23:34	10° VII 49'35		behind sun begin	595 Oct 22 j 07:20	0° VII 41'28	
superior conj	594 Nov 12 j 12:37	22° VII 42'08	-0°48'27	behind sun end	595 Oct 23 j 04:49	2° VII 07'08	
minimum elong	594 Nov 12 j 06:26	22° VII 17'51	0°47'39	desc. node	595 Oct 22 j 20:36	1° VII 34'23	
max. Earth dist.	594 Nov 12 j 16:08	22° VII 55'55	1.45056 AU	max. Earth dist.	595 Oct 26 j 10:49	7° VII 16'14	1.44825 AU
	594 Nov 17 j 04:00	0° IX		evening rise	595 Nov 08 j 05:09	27° VII 11'41	
evening rise	594 Nov 28 j 09:44	17° IX 47'56			595 Nov 10 j 00:39	0° IX	
	594 Dec 06 j 01:26	0° X		greatest brilliancy	595 Nov 21 j 09:47	17° IX 24'00	-0.7m
greatest brilliancy	594 Dec 06 j 12:55	0° X 45'30	-0.8m		595 Nov 30 j 09:32	0° X	
evening max el	594 Dec 20 j 06:53	20° X 09'24	18°58'01	evening max el	595 Dec 03 j 13:14	3° X 37'16	19°48'00
asc. node	594 Dec 23 j 16:59	22° X 58'58		asc. node	595 Dec 10 j 14:03	7° X 57'49	
retrograde	594 Dec 27 j 03:25	24° X 02'39		retrograde	595 Dec 11 j 00:43	7° X 58'56	
evening set	594 Dec 30 j 09:27	23° X 01'32		evening set	595 Dec 14 j 14:16	6° X 44'33	
inferior conj	595 Jan 05 j 01:26	17° X 15'48	3°21'58	inferior conj	595 Dec 20 j 01:56	0° X 44'42	2°50'35
minimum elong	595 Jan 04 j 23:00	17° X 23'25	3°21'30	minimum elong	595 Dec 19 j 23:11	0° X 53'48	2°49'49
min. Earth dist.	595 Jan 06 j 15:31	15° X 16'56	0.65595 AU				

	595 Dec 20 j 15:25	30° RX		evening set	596 Nov 27 j 21:24	20° X 32'51	
min. Earth dist.	595 Dec 21 j 02:05	29° X 24'47	0.66659 AU	inferior conj	596 Dec 03 j 06:38	14° X 22'05	2°10'53
morning rise	595 Dec 25 j 07:54	24° X 31'53		minimum elong	596 Dec 03 j 04:07	14° X 30'41	2°10'01
direct	595 Dec 31 j 08:13	21° X 51'30		min. Earth dist.	596 Dec 03 j 18:23	13° X 41'49	0.67346 AU
morning max el	596 Jan 12 j 10:00	29° X 02'32	25°27'46	morning rise	596 Dec 08 j 10:38	8° X 08'39	
	596 Jan 13 j 08:21	0° Z		direct	596 Dec 13 j 20:13	5° X 46'35	
desc. node	596 Jan 18 j 19:48	6° Z 17'23		morning max el	596 Dec 24 j 18:20	12° X 17'35	24°02'37
	596 Feb 04 j 13:07	0° \approx		desc. node	597 Jan 04 j 16:50	25° X 28'15	
morning set	596 Feb 17 j 16:18	22° \approx 12'25			597 Jan 07 j 23:46	0° Z	
max. Earth dist.	596 Feb 21 j 10:07	29° \approx 07'55	1.36268 AU		597 Jan 27 j 08:40	0° \approx	
	596 Feb 21 j 21:07	0° X		morning set	597 Jan 29 j 10:52	3° \approx 34'13	
				max. Earth dist.	597 Feb 02 j 05:43	10° \approx 12'40	1.38269 AU
superior conj	596 Feb 27 j 06:32	10° X 29'41	-1°25'20				
minimum elong	596 Feb 27 j 10:22	10° X 48'46	1°24'47	superior conj	597 Feb 09 j 10:09	23° \approx 28'21	-1°46'24
evening rise	596 Mar 06 j 09:27	26° X 57'32		minimum elong	597 Feb 09 j 14:01	23° \approx 46'42	1°46'03
asc. node	596 Mar 07 j 13:21	29° X 18'15			597 Feb 12 j 19:28	0° X	
	596 Mar 07 j 21:41	0° Y		evening rise	597 Feb 18 j 07:41	10° X 49'12	
evening max el	596 Mar 23 j 23:17	25° Y 25'31	19°50'37	asc. node	597 Feb 22 j 10:24	18° X 46'39	
	596 Mar 31 j 18:25	0° Z			597 Feb 28 j 21:34	0° Y	
retrograde	596 Apr 02 j 22:50	0° Z 13'24		evening max el	597 Mar 06 j 20:24	7° Y 31'11	18°56'27
evening set	596 Apr 05 j 00:43	0° Z 01'50		retrograde	597 Mar 15 j 06:20	11° Y 35'17	
	596 Apr 05 j 04:36	30° RY		evening set	597 Mar 17 j 12:29	11° Y 18'57	
inferior conj	596 Apr 13 j 19:38	26° Y 00'39	0°33'44	inferior conj	597 Mar 25 j 12:23	7° Y 02'45	2°10'19
minimum elong	596 Apr 13 j 21:06	25° Y 58'23	0°33'13	minimum elong	597 Mar 25 j 16:33	6° Y 55'20	2°09'06
desc. node	596 Apr 15 j 18:57	24° Y 47'47		min. Earth dist.	597 Mar 28 j 16:56	4° Y 47'43	0.57057 AU
min. Earth dist.	596 Apr 16 j 00:51	24° Y 38'51	0.55603 AU	morning rise	597 Apr 02 j 17:34	1° Y 58'04	
morning rise	596 Apr 22 j 15:07	21° Y 29'08		desc. node	597 Apr 02 j 16:00	1° Y 59'41	
direct	596 Apr 26 j 18:56	20° Y 50'48		direct	597 Apr 08 j 00:11	0° Y 51'32	
morning max el	596 May 10 j 16:22	27° Y 46'20	24°16'21	morning max el	597 Apr 22 j 07:15	8° Y 17'07	25°50'46
	596 May 12 j 21:11	0° Z			597 May 08 j 12:15	0° Z	
	596 Jun 01 j 03:09	0° II		morning set	597 May 20 j 02:01	22° Z 04'44	
asc. node	596 Jun 03 j 12:38	4° II 53'10		asc. node	597 May 21 j 09:41	24° Z 52'44	
morning set	596 Jun 04 j 14:26	7° II 08'05			597 May 23 j 18:35	0° II	
superior conj	596 Jun 11 j 14:52	22° II 15'38	1°16'12	superior conj	597 May 27 j 01:47	7° II 13'27	0°56'46
minimum elong	596 Jun 11 j 12:24	22° II 02'18	1°15'51	minimum elong	597 May 26 j 23:37	7° II 01'35	0°56'22
max. Earth dist.	596 Jun 13 j 09:43	26° II 06'41	1.33164 AU	max. Earth dist.	597 May 27 j 19:25	8° II 49'58	1.32544 AU
	596 Jun 15 j 05:32	0° Z		evening rise	597 Jun 03 j 02:44	22° II 20'10	
evening rise	596 Jun 18 j 23:04	7° Z 43'48			597 Jun 06 j 21:50	0° Z	
	596 Jun 30 j 23:48	0° Ω			597 Jun 25 j 00:13	0° Ω	
desc. node	596 Jul 12 j 18:18	17° Ω 37'21		desc. node	597 Jun 29 j 15:18	5° Ω 49'14	
evening max el	596 Jul 22 j 04:29	28° Ω 24'12	27°25'37	evening max el	597 Jul 04 j 11:13	10° Ω 56'41	27°08'37
	596 Jul 23 j 22:39	0° P		retrograde	597 Jul 18 j 08:36	18° Ω 12'40	
retrograde	596 Aug 04 j 21:01	5° P 43'18		evening set	597 Jul 25 j 10:22	15° Ω 55'57	
evening set	596 Aug 12 j 01:46	3° P 05'31		min. Earth dist.	597 Jul 29 j 01:28	13° Ω 11'22	0.61525 AU
min. Earth dist.	596 Aug 15 j 16:28	29° Ω 58'00	0.63399 AU	inferior conj	597 Aug 01 j 04:26	10° Ω 24'52	-4°19'58
	596 Aug 15 j 15:38	30° $\text{R}\Omega$		minimum elong	597 Aug 01 j 08:53	10° Ω 14'55	4°19'10
inferior conj	596 Aug 18 j 08:29	27° Ω 17'08	-3°37'15	morning rise	597 Aug 08 j 08:59	5° Ω 29'38	
minimum elong	596 Aug 18 j 13:25	27° Ω 04'43	3°35'54	direct	597 Aug 10 j 20:00	5° Ω 04'22	
morning rise	596 Aug 25 j 02:14	22° Ω 01'43		asc. node	597 Aug 17 j 08:54	8° Ω 08'29	
direct	596 Aug 27 j 14:58	21° Ω 30'56		morning max el	597 Aug 17 j 19:38	8° Ω 33'52	17°57'54
asc. node	596 Aug 30 j 11:52	22° Ω 11'15			597 Aug 31 j 18:12	0° P	
morning max el	596 Sep 03 j 05:21	24° Ω 56'34	17°53'10	morning set	597 Sep 02 j 17:49	3° P 37'35	
	596 Sep 07 j 09:11	0° P					
morning set	596 Sep 19 j 19:10	20° P 33'05		superior conj	597 Sep 13 j 03:40	22° P 20'54	1°17'14
	596 Sep 25 j 05:53	0° Z		minimum elong	597 Sep 13 j 08:20	22° P 41'15	1°16'44
					597 Sep 17 j 14:42	0° Z	
superior conj	596 Oct 01 j 21:08	11° Z 12'00	0°44'49	max. Earth dist.	597 Sep 20 j 15:16	5° Z 02'54	1.42395 AU
minimum elong	596 Oct 02 j 01:24	11° Z 29'41	0°44'16	desc. node	597 Sep 25 j 14:40	13° Z 07'26	
max. Earth dist.	596 Oct 08 j 03:10	21° Z 23'30	1.43901 AU	evening rise	597 Sep 27 j 02:00	15° Z 27'51	
desc. node	596 Oct 08 j 17:38	22° Z 21'23			597 Oct 06 j 12:51	0° P	
	596 Oct 13 j 13:33	0° P			597 Oct 28 j 19:39	0° X	
evening rise	596 Oct 17 j 12:44	6° P 09'59		evening max el	597 Oct 29 j 09:37	0° X 36'02	22°06'06
	596 Nov 02 j 09:58	0° X		retrograde	597 Nov 07 j 18:32	6° X 10'24	
evening max el	596 Nov 15 j 14:14	17° X 05'59	20°51'54	evening set	597 Nov 12 j 05:05	4° X 24'06	
retrograde	596 Nov 23 j 22:23	22° X 02'17		asc. node	597 Nov 13 j 08:09	3° X 22'43	
asc. node	596 Nov 26 j 11:07	21° X 26'09			597 Nov 16 j 04:06	30° RP	

inferior conj	597 Nov 17 j 13:27	28° \mathbb{M} 05'51	1°24'48	min. Earth dist.	598 Nov 01 j 10:35	12° \mathbb{M} 27'45	0.67685 AU
minimum elong	597 Nov 17 j 11:37	28° \mathbb{M} 12'11	1°24'05	morning rise	598 Nov 07 j 03:50	5° \mathbb{M} 45'19	
min. Earth dist.	597 Nov 17 j 14:01	28° \mathbb{M} 03'52	0.67681 AU	direct	598 Nov 11 j 08:00	4° \mathbb{M} 08'11	
morning rise	597 Nov 22 j 17:59	21° \mathbb{M} 53'55		morning max el	598 Nov 19 j 20:41	9° \mathbb{M} 06'44	21°12'13
direct	597 Nov 27 j 12:28	19° \mathbb{M} 54'03			598 Dec 05 j 20:42	0° \mathbb{M}	
morning max el	597 Dec 07 j 04:42	25° \mathbb{M} 37'47	22°34'43	desc. node	598 Dec 09 j 10:55	5° \mathbb{M} 18'01	
	597 Dec 11 j 03:34	0° \mathbb{M}		morning set	598 Dec 20 j 12:21	22° \mathbb{M} 13'47	
desc. node	597 Dec 22 j 13:53	15° \mathbb{M} 11'39			598 Dec 25 j 09:34	0° \mathbb{M}	
	598 Jan 01 j 12:50	0° \mathbb{M}		max. Earth dist.	598 Dec 28 j 04:21	4° \mathbb{M} 31'14	1.42386 AU
morning set	598 Jan 10 j 01:44	13° \mathbb{M} 33'30					
max. Earth dist.	598 Jan 15 j 01:46	21° \mathbb{M} 54'13	1.40408 AU	superior conj	599 Jan 04 j 09:51	16° \mathbb{M} 37'29	-2°01'56
	598 Jan 19 j 17:56	0° \mathbb{M}		minimum elong	599 Jan 04 j 08:09	16° \mathbb{M} 30'12	2°01'54
					599 Jan 12 j 01:05	0° \mathbb{M}	
superior conj	598 Jan 22 j 21:05	5° \mathbb{M} 35'33	-2°00'03	evening rise	599 Jan 15 j 18:52	6° \mathbb{M} 43'41	
minimum elong	598 Jan 22 j 23:18	5° \mathbb{M} 45'32	1°59'58	asc. node	599 Jan 27 j 04:29	26° \mathbb{M} 21'47	
evening rise	598 Feb 01 j 20:04	24° \mathbb{M} 07'30			599 Jan 29 j 18:35	0° \mathbb{M}	
	598 Feb 04 j 23:07	0° \mathbb{M}		evening max el	599 Feb 01 j 11:57	3° \mathbb{M} 07'22	18°08'04
asc. node	598 Feb 09 j 07:27	7° \mathbb{M} 50'38		retrograde	599 Feb 08 j 04:20	6° \mathbb{M} 32'48	
evening max el	598 Feb 18 j 01:40	20° \mathbb{M} 08'16	18°22'20	evening set	599 Feb 10 j 20:48	5° \mathbb{M} 59'48	
retrograde	598 Feb 25 j 08:59	23° \mathbb{M} 45'05		inferior conj	599 Feb 17 j 11:35	1° \mathbb{M} 01'54	3°42'21
evening set	598 Feb 27 j 20:38	23° \mathbb{M} 21'07		minimum elong	599 Feb 17 j 13:03	0° \mathbb{M} 58'24	3°42'16
inferior conj	598 Mar 07 j 02:17	18° \mathbb{M} 44'22	3°12'20		599 Feb 18 j 13:11	30° \mathbb{R}	
minimum elong	598 Mar 07 j 05:49	18° \mathbb{M} 37'00	3°11'40	min. Earth dist.	599 Feb 20 j 15:14	28° \mathbb{M} 01'20	0.61132 AU
min. Earth dist.	598 Mar 10 j 12:43	15° \mathbb{M} 54'27	0.59018 AU	morning rise	599 Feb 24 j 03:41	25° \mathbb{M} 11'30	
morning rise	598 Mar 14 j 12:32	13° \mathbb{M} 12'19		direct	599 Mar 02 j 23:27	22° \mathbb{M} 53'11	
direct	598 Mar 20 j 18:22	11° \mathbb{M} 29'08		desc. node	599 Mar 07 j 10:03	23° \mathbb{M} 46'42	
desc. node	598 Mar 20 j 13:01	11° \mathbb{M} 29'16			599 Mar 16 j 09:41	0° \mathbb{M}	
morning max el	598 Apr 04 j 02:24	19° \mathbb{M} 11'12	27°03'11	morning max el	599 Mar 17 j 04:00	0° \mathbb{M} 44'23	27°42'32
	598 Apr 13 j 06:09	0° \mathbb{M}			599 Apr 07 j 08:27	0° \mathbb{M}	
	598 May 01 j 02:25	0° \mathbb{M}		morning set	599 Apr 18 j 17:30	21° \mathbb{M} 30'04	
morning set	598 May 04 j 11:39	6° \mathbb{M} 54'17			599 Apr 22 j 18:25	0° \mathbb{M}	
asc. node	598 May 08 j 06:43	15° \mathbb{M} 00'01		max. Earth dist.	599 Apr 24 j 19:40	4° \mathbb{M} 26'21	1.32409 AU
				asc. node	599 Apr 25 j 03:46	5° \mathbb{M} 10'24	
superior conj	598 May 11 j 13:33	22° \mathbb{M} 11'26	0°34'10				
minimum elong	598 May 11 j 12:06	22° \mathbb{M} 03'26	0°33'51	superior conj	599 Apr 26 j 00:29	7° \mathbb{M} 03'35	0°09'09
max. Earth dist.	598 May 11 j 08:02	21° \mathbb{M} 41'06	1.32295 AU	minimum elong	599 Apr 26 j 00:04	7° \mathbb{M} 01'17	0°09'03
	598 May 15 j 03:05	0° \mathbb{M}		behind sun begin	599 Apr 25 j 19:53	6° \mathbb{M} 38'21	
evening rise	598 May 18 j 11:09	7° \mathbb{M} 08'59		behind sun end	599 Apr 26 j 04:16	7° \mathbb{M} 24'12	
	598 May 30 j 11:03	0° \mathbb{M}		evening rise	599 May 02 j 22:12	22° \mathbb{M} 02'37	
evening max el	598 Jun 16 j 11:37	22° \mathbb{M} 44'32	26°18'40		599 May 06 j 18:49	0° \mathbb{M}	
desc. node	598 Jun 16 j 12:19	22° \mathbb{M} 46'10			599 May 25 j 14:52	0° \mathbb{M}	
retrograde	598 Jun 30 j 11:44	29° \mathbb{M} 57'07		evening max el	599 May 29 j 05:06	3° \mathbb{M} 47'50	25°01'09
evening set	598 Jul 06 j 22:51	28° \mathbb{M} 13'43		desc. node	599 Jun 03 j 09:18	7° \mathbb{M} 58'22	
min. Earth dist.	598 Jul 11 j 00:33	25° \mathbb{M} 36'39	0.59477 AU	retrograde	599 Jun 12 j 04:55	10° \mathbb{M} 54'39	
inferior conj	598 Jul 14 j 08:29	23° \mathbb{M} 02'19	-4°45'58	evening set	599 Jun 17 j 12:12	9° \mathbb{M} 50'06	
minimum elong	598 Jul 14 j 10:28	22° \mathbb{M} 58'27	4°45'51	min. Earth dist.	599 Jun 22 j 16:35	7° \mathbb{M} 02'27	0.57488 AU
morning rise	598 Jul 22 j 00:10	18° \mathbb{M} 29'42		inferior conj	599 Jun 25 j 17:26	5° \mathbb{M} 00'28	-4°43'45
direct	598 Jul 24 j 11:51	18° \mathbb{M} 07'57		minimum elong	599 Jun 25 j 14:52	5° \mathbb{M} 04'49	4°43'33
morning max el	598 Aug 01 j 05:12	21° \mathbb{M} 50'59	18°22'21	morning rise	599 Jul 03 j 20:15	0° \mathbb{M} 49'51	
asc. node	598 Aug 04 j 05:56	25° \mathbb{M} 14'48		direct	599 Jul 06 j 10:05	0° \mathbb{M} 30'31	
	598 Aug 07 j 13:46	0° \mathbb{M}		morning max el	599 Jul 15 j 07:10	4° \mathbb{M} 39'25	19°07'35
morning set	598 Aug 17 j 06:07	17° \mathbb{M} 21'43		asc. node	599 Jul 22 j 02:59	13° \mathbb{M} 15'50	
	598 Aug 23 j 21:39	0° \mathbb{M}			599 Jul 31 j 08:51	0° \mathbb{M}	
				morning set	599 Aug 01 j 04:06	1° \mathbb{M} 35'00	
superior conj	598 Aug 26 j 10:16	4° \mathbb{M} 41'15	1°37'03				
minimum elong	598 Aug 26 j 13:16	4° \mathbb{M} 55'05	1°36'49	superior conj	599 Aug 09 j 11:19	17° \mathbb{M} 57'34	1°45'49
max. Earth dist.	598 Sep 02 j 22:11	18° \mathbb{M} 01'57	1.40499 AU	minimum elong	599 Aug 09 j 12:15	18° \mathbb{M} 02'04	1°45'47
evening rise	598 Sep 07 j 11:11	25° \mathbb{M} 41'26			599 Aug 15 j 21:27	0° \mathbb{M}	
	598 Sep 10 j 02:29	0° \mathbb{M}		max. Earth dist.	599 Aug 16 j 01:34	0° \mathbb{M} 18'44	1.38466 AU
desc. node	598 Sep 12 j 11:40	3° \mathbb{M} 48'40		evening rise	599 Aug 19 j 21:04	7° \mathbb{M} 04'54	
	598 Sep 30 j 07:08	0° \mathbb{M}		desc. node	599 Aug 30 j 08:41	24° \mathbb{M} 21'14	
evening max el	598 Oct 12 j 00:18	14° \mathbb{M} 07'57	23°25'41		599 Sep 03 j 01:16	0° \mathbb{M}	
retrograde	598 Oct 22 j 11:52	20° \mathbb{M} 19'46		evening max el	599 Sep 24 j 12:23	27° \mathbb{M} 43'27	24°44'24
evening set	598 Oct 27 j 11:40	18° \mathbb{M} 15'41			599 Sep 26 j 23:24	0° \mathbb{M}	
asc. node	598 Oct 31 j 05:10	14° \mathbb{M} 06'57		retrograde	599 Oct 06 j 01:26	4° \mathbb{M} 27'10	
inferior conj	598 Nov 01 j 20:35	11° \mathbb{M} 53'32	0°33'50	evening set	599 Oct 11 j 15:33	2° \mathbb{M} 05'54	
minimum elong	598 Nov 01 j 19:47	11° \mathbb{M} 56'16	0°33'30		599 Oct 13 j 17:37	30° \mathbb{R}	

min. Earth dist.	599 Oct 16 j 05:51	26° Ω 51'54	0.67362 AU	minimum elong	600 Sep 30 j 06:55	9° Ω 27'06	1°16'12
inferior conj	599 Oct 17 j 02:21	25° Ω 43'51	-0°20'35	asc. node	600 Oct 03 j 23:15	5° Ω 14'27	
minimum elong	599 Oct 17 j 02:51	25° Ω 42'09	0°20'22	morning rise	600 Oct 05 j 23:17	3° Ω 40'03	
asc. node	599 Oct 18 j 02:11	24° Ω 25'24		direct	600 Oct 09 j 04:11	2° Ω 40'59	
morning rise	599 Oct 22 j 14:16	19° Ω 41'43		morning max el	600 Oct 16 j 03:17	6° Ω 35'18	19°03'46
direct	599 Oct 26 j 05:43	18° Ω 25'16			600 Nov 01 j 19:30	0° \mathbb{M}	
morning max el	599 Nov 02 j 20:21	22° Ω 46'51	20°00'49	morning set	600 Nov 07 j 15:39	9° \mathbb{M} 07'33	
	599 Nov 08 j 21:12	0° \mathbb{M}		desc. node	600 Nov 12 j 05:02	16° \mathbb{M} 15'49	
desc. node	599 Nov 26 j 07:58	25° \mathbb{M} 41'15			600 Nov 20 j 23:14	0° \mathbb{X}	
morning set	599 Nov 29 j 08:44	0° \mathbb{X} 21'25		max. Earth dist.	600 Nov 22 j 05:49	2° \mathbb{X} 00'22	1.44852 AU
	599 Nov 29 j 03:11	0° \mathbb{X}					
max. Earth dist.	599 Dec 10 j 14:16	17° \mathbb{X} 58'30	1.43931 AU	superior conj	600 Nov 24 j 06:40	5° \mathbb{X} 13'02	-1°14'19
				minimum elong	600 Nov 23 j 22:24	4° \mathbb{X} 40'21	1°13'24
superior conj	599 Dec 15 j 20:19	26° \mathbb{X} 26'46	-1°47'24	evening rise	600 Dec 09 j 07:02	29° \mathbb{X} 20'19	
minimum elong	599 Dec 15 j 13:37	25° \mathbb{X} 59'27	1°46'56		600 Dec 09 j 16:45	0° \mathbb{Z}	
	599 Dec 18 j 00:23	0° \mathbb{Z}		evening max el	600 Dec 29 j 12:16	29° \mathbb{Z} 45'13	18°36'40
evening rise	599 Dec 28 j 23:55	18° \mathbb{Z} 30'25			600 Dec 29 j 18:08	0° \approx	
	600 Jan 04 j 17:04	0° \approx		asc. node	600 Dec 30 j 22:32	1° \approx 05'34	
asc. node	600 Jan 14 j 01:30	14° \approx 10'48		retrograde	601 Jan 05 j 03:21	3° \approx 26'03	
evening max el	600 Jan 16 j 00:22	16° \approx 21'40	18°13'06	evening set	601 Jan 08 j 05:47	2° \approx 31'59	
retrograde	600 Jan 22 j 11:53	19° \approx 49'08			601 Jan 11 j 08:10	30° \mathbb{R} \mathbb{Z}	
evening set	600 Jan 25 j 08:59	19° \approx 06'11		inferior conj	601 Jan 14 j 01:16	26° \mathbb{Z} 56'01	3°35'17
inferior conj	600 Jan 31 j 12:34	13° \approx 48'19	3°47'45	minimum elong	601 Jan 13 j 23:18	27° \mathbb{Z} 01'53	3°35'00
minimum elong	600 Jan 31 j 12:00	13° \approx 49'52	3°47'44	min. Earth dist.	601 Jan 16 j 00:11	24° \mathbb{Z} 36'07	0.64803 AU
min. Earth dist.	600 Feb 03 j 02:52	10° \approx 59'56	0.63121 AU	morning rise	601 Jan 19 j 16:22	20° \mathbb{Z} 48'24	
morning rise	600 Feb 06 j 14:06	7° \approx 47'00		direct	601 Jan 26 j 11:12	17° \mathbb{Z} 56'07	
direct	600 Feb 13 j 13:38	5° \approx 04'13		desc. node	601 Feb 08 j 04:12	25° \mathbb{Z} 03'25	
desc. node	600 Feb 22 j 07:07	8° \approx 30'04		morning max el	601 Feb 08 j 20:12	25° \mathbb{Z} 42'53	27°11'56
morning max el	600 Feb 27 j 10:50	12° \approx 57'58	27°44'34		601 Feb 12 j 19:10	0° \approx	
	600 Mar 12 j 02:32	0° \mathbb{H}			601 Mar 05 j 14:39	0° \mathbb{H}	
	600 Mar 29 j 19:19	0° \mathbb{Y}		morning set	601 Mar 16 j 08:08	19° \mathbb{H} 28'05	
morning set	600 Apr 01 j 17:18	5° \mathbb{Y} 44'22		max. Earth dist.	601 Mar 20 j 23:49	28° \mathbb{H} 45'09	1.33865 AU
max. Earth dist.	600 Apr 07 j 02:11	16° \mathbb{Y} 51'10	1.32918 AU		601 Mar 21 j 14:25	0° \mathbb{Y}	
superior conj	600 Apr 09 j 08:53	21° \mathbb{Y} 43'57	-0°17'30	superior conj	601 Mar 24 j 12:50	6° \mathbb{Y} 06'36	-0°44'43
minimum elong	600 Apr 09 j 09:44	21° \mathbb{Y} 48'29	0°17'19	minimum elong	601 Mar 24 j 15:01	6° \mathbb{Y} 18'06	0°44'17
asc. node	600 Apr 11 j 00:48	25° \mathbb{Y} 19'33		asc. node	601 Mar 28 j 21:52	15° \mathbb{Y} 23'37	
	600 Apr 13 j 04:37	0° \mathbb{B}		evening rise	601 Mar 31 j 20:47	21° \mathbb{Y} 38'06	
evening rise	600 Apr 16 j 10:00	6° \mathbb{B} 54'16			601 Apr 04 j 23:18	0° \mathbb{B}	
	600 Apr 28 j 15:46	0° \mathbb{I}		evening max el	601 Apr 21 j 13:20	25° \mathbb{B} 00'55	21°53'41
evening max el	600 May 09 j 19:17	14° \mathbb{I} 23'10	23°27'53		601 Apr 28 j 15:34	0° \mathbb{I}	
desc. node	600 May 20 j 06:19	20° \mathbb{I} 48'59		retrograde	601 May 04 j 03:09	1° \mathbb{I} 10'31	
retrograde	600 May 23 j 10:03	21° \mathbb{I} 11'39		evening set	601 May 06 j 18:10	0° \mathbb{I} 55'09	
evening set	600 May 27 j 05:51	20° \mathbb{I} 39'28		desc. node	601 May 07 j 03:21	0° \mathbb{I} 50'26	
min. Earth dist.	600 Jun 03 j 05:34	17° \mathbb{I} 26'37	0.55895 AU		601 May 09 j 21:27	30° \mathbb{R} \mathbb{B}	
inferior conj	600 Jun 05 j 06:21	16° \mathbb{I} 14'04	-4°00'14	inferior conj	601 May 16 j 04:06	26° \mathbb{B} 51'02	-2°30'58
minimum elong	600 Jun 04 j 23:30	16° \mathbb{I} 24'18	3°58'48	minimum elong	601 May 15 j 21:31	27° \mathbb{B} 00'16	2°28'51
morning rise	600 Jun 13 j 19:53	12° \mathbb{I} 18'22		min. Earth dist.	601 May 15 j 18:07	27° \mathbb{B} 05'02	0.55043 AU
direct	600 Jun 16 j 12:53	12° \mathbb{I} 00'16		morning rise	601 May 25 j 02:04	22° \mathbb{B} 55'42	
morning max el	600 Jun 26 j 22:53	16° \mathbb{I} 49'23	20°13'51	direct	601 May 28 j 02:00	22° \mathbb{B} 35'46	
	600 Jul 06 j 20:41	0° \mathbb{E}		morning max el	601 Jun 09 j 03:18	28° \mathbb{B} 15'39	21°39'19
asc. node	600 Jul 08 j 00:02	1° \mathbb{E} 58'17			601 Jun 10 j 21:21	0° \mathbb{I}	
morning set	600 Jul 15 j 08:42	16° \mathbb{E} 08'36		asc. node	601 Jun 24 j 21:08	21° \mathbb{I} 12'03	
	600 Jul 22 j 03:06	0° \mathbb{Q}			601 Jun 29 j 06:45	0° \mathbb{E}	
				morning set	601 Jun 29 j 17:36	0° \mathbb{E} 56'08	
superior conj	600 Jul 23 j 01:38	1° \mathbb{Q} 53'59	1°45'40	superior conj	601 Jul 07 j 01:12	16° \mathbb{E} 18'40	1°38'27
minimum elong	600 Jul 23 j 00:51	1° \mathbb{Q} 50'01	1°45'39	minimum elong	601 Jul 06 j 23:18	16° \mathbb{E} 08'43	1°38'19
max. Earth dist.	600 Jul 28 j 06:42	12° \mathbb{Q} 09'43	1.36553 AU	max. Earth dist.	601 Jul 10 j 19:33	24° \mathbb{E} 03'11	1.34938 AU
evening rise	600 Aug 01 j 05:12	19° \mathbb{Q} 32'29			601 Jul 13 j 19:22	0° \mathbb{Q}	
	600 Aug 07 j 03:18	0° \mathbb{N}		evening rise	601 Jul 15 j 06:52	2° \mathbb{Q} 51'43	
desc. node	600 Aug 16 j 05:42	14° \mathbb{N} 39'28			601 Jul 31 j 00:53	0° \mathbb{N}	
	600 Aug 27 j 02:48	0° \mathbb{L}		desc. node	601 Aug 03 j 02:41	4° \mathbb{N} 36'40	
evening max el	600 Sep 05 j 23:59	11° \mathbb{L} 21'05	25°55'00	evening max el	601 Aug 19 j 12:08	24° \mathbb{N} 55'44	26°49'36
retrograde	600 Sep 18 j 10:25	18° \mathbb{L} 26'31			601 Aug 25 j 20:47	0° \mathbb{L}	
evening set	600 Sep 24 j 14:51	15° \mathbb{L} 51'05		retrograde	601 Sep 01 j 14:05	2° \mathbb{L} 11'42	
min. Earth dist.	600 Sep 28 j 21:22	11° \mathbb{L} 12'50	0.66706 AU		601 Sep 07 j 14:53	30° \mathbb{R} \mathbb{N}	
inferior conj	600 Sep 30 j 04:56	9° \mathbb{L} 33'20	-1°17'02				

evening set	601 Sep 08 j 07:23	29° $\overline{\text{M}}$ 27'49	
min. Earth dist.	601 Sep 12 j 06:44	25° $\overline{\text{M}}$ 26'32	0.65706 AU
inferior conj	601 Sep 14 j 02:20	23° $\overline{\text{M}}$ 18'41	-2°13'43
minimum elong	601 Sep 14 j 05:46	23° $\overline{\text{M}}$ 08'36	2°12'25
morning rise	601 Sep 20 j 04:44	17° $\overline{\text{M}}$ 37'22	
asc. node	601 Sep 20 j 20:20	17° $\overline{\text{M}}$ 19'09	
direct	601 Sep 23 j 01:28	16° $\overline{\text{M}}$ 51'55	
morning max el	601 Sep 29 j 15:46	20° $\overline{\text{M}}$ 28'16	18°22'47
	601 Oct 06 j 23:31	0° $\underline{\text{L}}$	
morning set	601 Oct 19 j 01:26	19° $\underline{\text{L}}$ 15'45	
	601 Oct 25 j 17:14	0° $\overline{\text{M}}$	
desc. node	601 Oct 30 j 02:02	6° $\overline{\text{M}}$.57'39	
superior conj	601 Nov 03 j 07:23	13° $\overline{\text{M}}$.38'13	-0°27'40
minimum elong	601 Nov 03 j 03:45	13° $\overline{\text{M}}$.23'56	0°27'11
max. Earth dist.	601 Nov 05 j 00:35	16° $\overline{\text{M}}$.20'22	1.45055 AU
	601 Nov 13 j 17:37	0° $\overline{\text{M}}$	
evening rise	601 Nov 19 j 14:28	9° $\overline{\text{M}}$ 12'17	
greatest brilliancy	601 Nov 30 j 04:30	25° $\overline{\text{M}}$ 45'44	-0.8m
	601 Dec 02 j 23:09	0° $\overline{\text{M}}$	
evening max el	601 Dec 12 j 21:17	13° $\overline{\text{M}}$ 12'40	19°17'29
asc. node	601 Dec 17 j 19:36	16° $\overline{\text{M}}$ 51'04	
retrograde	601 Dec 19 j 23:16	17° $\overline{\text{M}}$ 16'38	
evening set	601 Dec 23 j 08:21	16° $\overline{\text{M}}$ 10'02	
inferior conj	601 Dec 28 j 22:16	10° $\overline{\text{M}}$ 18'09	3°09'48
minimum elong	601 Dec 28 j 19:37	10° $\overline{\text{M}}$ 26'38	3°09'11
min. Earth dist.	601 Dec 30 j 06:16	8° $\overline{\text{M}}$ 35'32	0.66101 AU
morning rise	602 Jan 03 j 06:39	4° $\overline{\text{M}}$ 06'53	
direct	602 Jan 09 j 14:51	1° $\overline{\text{M}}$ 19'08	