

superior conj	1600 Apr 16 07:38	26° Υ 28'07	-0°30'14			1601 Mar 26 01:27	0° Υ	
minimum elong	1600 Apr 16 09:09	26° Υ 36'06	0°29'55	max. Earth dist.		1601 Mar 26 17:57	1° Υ 21'21	1.34753 AU
	1600 Apr 17 23:24	0° \mathcal{B}						
asc. node	1600 Apr 19 05:29	2° \mathcal{B} 41'00		superior conj		1601 Mar 31 06:53	10° Υ 32'09	-0°57'53
evening rise	1600 Apr 23 12:48	11° \mathcal{B} 51'14		minimum elong		1601 Mar 31 09:46	10° Υ 47'02	0°57'22
	1600 May 02 21:10	0° Π		asc. node		1601 Apr 06 02:29	22° Υ 39'58	
evening max el	1600 May 15 00:39	16° Π 31'15	22°22'48	evening rise		1601 Apr 07 21:44	26° Υ 24'53	
desc. node	1600 May 27 18:49	22° Π 56'22				1601 Apr 09 15:40	0° \mathcal{B}	
retrograde	1600 May 28 00:08	22° Π 56'28		evening max el		1601 Apr 27 00:20	27° \mathcal{B} 22'35	20°55'00
evening set	1600 May 30 23:29	22° Π 36'59				1601 Apr 30 03:08	0° Π	
min. Earth dist.	1600 Jun 08 07:32	19° Π 01'18	0.55196 AU	retrograde		1601 May 08 13:31	2° Π 59'44	
inferior conj	1600 Jun 09 07:29	18° Π 27'28	-3°22'53	evening set		1601 May 10 17:39	2° Π 48'32	
minimum elong	1600 Jun 08 23:42	18° Π 38'29	3°20'44	desc. node		1601 May 14 15:50	1° Π 37'28	
morning rise	1600 Jun 18 01:54	14° Π 35'20				1601 May 17 23:30	30° \mathcal{R} \mathcal{B}	
direct	1600 Jun 21 00:34	14° Π 15'40		inferior conj		1601 May 20 01:16	28° \mathcal{B} 50'25	-1°33'31
morning max el	1600 Jul 02 13:19	19° Π 37'48	21°11'14	minimum elong		1601 May 19 20:51	28° \mathcal{B} 56'41	1°31'57
	1600 Jul 10 22:27	0° \mathcal{E}		min. Earth dist.		1601 May 20 20:01	28° \mathcal{B} 23'46	0.54949 AU
asc. node	1600 Jul 16 04:44	8° \mathcal{E} 55'43		morning rise		1601 May 28 23:48	24° \mathcal{B} 45'50	
morning set	1600 Jul 22 10:20	21° \mathcal{E} 13'36		direct		1601 Jun 01 10:01	24° \mathcal{B} 20'32	
	1600 Jul 26 15:11	0° \mathcal{O}				1601 Jun 13 19:19	0° Π	
				morning max el		1601 Jun 14 10:35	0° Π 34'53	22°47'22
superior conj	1600 Jul 29 19:57	6° \mathcal{O} 40'01	1°42'42	asc. node		1601 Jul 03 01:45	28° Π 20'46	
minimum elong	1600 Jul 29 18:39	6° \mathcal{O} 33'17	1°42'38			1601 Jul 03 21:40	0° \mathcal{E}	
max. Earth dist.	1600 Aug 03 02:07	15° \mathcal{O} 18'39	1.35397 AU	morning set		1601 Jul 06 21:01	6° \mathcal{E} 06'42	
evening rise	1600 Aug 07 07:58	23° \mathcal{O} 32'46						
	1600 Aug 10 19:45	0° \mathcal{M}		superior conj		1601 Jul 14 00:06	21° \mathcal{E} 18'28	1°33'07
desc. node	1600 Aug 23 18:11	21° \mathcal{M} 25'07		minimum elong		1601 Jul 13 21:57	21° \mathcal{E} 07'05	1°32'54
	1600 Aug 29 16:55	0° \mathcal{L}		max. Earth dist.		1601 Jul 16 21:07	27° \mathcal{E} 22'11	1.34007 AU
evening max el	1600 Sep 11 19:01	15° \mathcal{L} 35'15	26°34'13			1601 Jul 18 03:37	0° \mathcal{O}	
retrograde	1600 Sep 24 16:29	22° \mathcal{L} 48'31		evening rise		1601 Jul 21 18:40	7° \mathcal{O} 18'24	
evening set	1600 Oct 01 05:44	20° \mathcal{L} 07'20				1601 Aug 03 09:11	0° \mathcal{M}	
min. Earth dist.	1600 Oct 05 07:28	15° \mathcal{L} 54'34	0.66096 AU	desc. node		1601 Aug 10 15:12	11° \mathcal{M} 08'50	
inferior conj	1600 Oct 06 23:31	13° \mathcal{L} 54'23	-1°44'51	evening max el		1601 Aug 25 06:55	29° \mathcal{M} 01'43	27°13'45
minimum elong	1600 Oct 07 02:17	13° \mathcal{L} 46'03	1°43'43			1601 Aug 26 07:56	0° \mathcal{L}	
asc. node	1600 Oct 12 03:55	8° \mathcal{L} 39'36		retrograde		1601 Sep 07 16:26	6° \mathcal{L} 20'35	
morning rise	1600 Oct 12 23:23	8° \mathcal{L} 09'26		evening set		1601 Sep 14 16:14	3° \mathcal{L} 36'23	
direct	1600 Oct 15 22:15	7° \mathcal{L} 20'25				1601 Sep 18 11:16	30° \mathcal{R} \mathcal{M}	
morning max el	1600 Oct 22 14:11	11° \mathcal{L} 00'04	18°32'50	min. Earth dist.		1601 Sep 18 11:21	29° \mathcal{M} 59'46	0.64827 AU
	1600 Nov 05 02:40	0° \mathcal{M}		inferior conj		1601 Sep 20 15:58	27° \mathcal{M} 34'49	-2°42'23
morning set	1600 Nov 11 19:35	10° \mathcal{M} 42'50		minimum elong		1601 Sep 20 20:13	27° \mathcal{M} 23'08	2°40'53
desc. node	1600 Nov 19 17:28	23° \mathcal{M} 18'25		morning rise		1601 Sep 27 01:06	22° \mathcal{M} 03'59	
	1600 Nov 23 23:14	0° \mathcal{X}		asc. node		1601 Sep 29 00:57	21° \mathcal{M} 28'55	
				direct		1601 Sep 29 17:07	21° \mathcal{M} 26'31	
superior conj	1600 Nov 27 15:08	5° \mathcal{X} 45'34	-0°51'05	morning max el		1601 Oct 06 05:16	24° \mathcal{M} 55'13	18°03'40
minimum elong	1600 Nov 27 08:39	5° \mathcal{X} 20'06	0°50'15			1601 Oct 10 09:59	0° \mathcal{L}	
max. Earth dist.	1600 Nov 28 04:37	6° \mathcal{X} 38'28	1.45127 AU	morning set		1601 Oct 24 01:13	21° \mathcal{L} 50'36	
	1600 Dec 13 00:25	0° \mathcal{Z}				1601 Oct 28 22:58	0° \mathcal{M}	
evening rise	1600 Dec 13 14:45	0° \mathcal{Z} 56'49						
greatest brilliancy	1600 Dec 22 15:15	15° \mathcal{Z} 14'15	-0.8m	superior conj		1601 Nov 06 22:42	14° \mathcal{M} 36'06	-0°02'19
	1601 Jan 01 16:10	0° \mathcal{A}		minimum elong		1601 Nov 06 22:26	14° \mathcal{M} 35'00	0°02'17
evening max el	1601 Jan 04 21:21	3° \mathcal{A} 45'03	19°02'35	behind sun begin		1601 Nov 06 11:52	13° \mathcal{M} 52'46	
asc. node	1601 Jan 08 03:10	6° \mathcal{A} 28'34		behind sun end		1601 Nov 07 08:59	15° \mathcal{M} 17'10	
retrograde	1601 Jan 11 19:01	7° \mathcal{A} 40'25		desc. node		1601 Nov 06 14:30	14° \mathcal{M} 03'18	
evening set	1601 Jan 15 02:14	6° \mathcal{A} 37'12		max. Earth dist.		1601 Nov 10 23:23	21° \mathcal{M} 00'02	1.44818 AU
inferior conj	1601 Jan 20 17:12	0° \mathcal{A} 50'03	3°22'25			1601 Nov 16 17:04	0° \mathcal{X}	
minimum elong	1601 Jan 20 14:56	0° \mathcal{A} 57'10	3°22'02	evening rise		1601 Nov 23 08:23	10° \mathcal{X} 18'06	
	1601 Jan 21 09:01	30° \mathcal{R} \mathcal{Z}				1601 Dec 06 05:53	0° \mathcal{Z}	
min. Earth dist.	1601 Jan 22 05:58	28° \mathcal{Z} 54'13	0.65775 AU	greatest brilliancy		1601 Dec 07 01:26	1° \mathcal{Z} 12'48	-0.7m
morning rise	1601 Jan 26 03:21	24° \mathcal{Z} 38'52		evening max el		1601 Dec 19 03:05	17° \mathcal{Z} 14'20	19°54'11
direct	1601 Feb 01 15:04	21° \mathcal{Z} 48'36		asc. node		1601 Dec 26 00:12	21° \mathcal{Z} 36'38	
morning max el	1601 Feb 14 12:49	29° \mathcal{Z} 25'01	26°32'51	retrograde		1601 Dec 26 16:33	21° \mathcal{Z} 39'13	
	1601 Feb 15 02:33	0° \mathcal{A}		evening set		1601 Dec 30 07:27	20° \mathcal{Z} 22'33	
desc. node	1601 Feb 15 16:38	0° \mathcal{A} 36'44		inferior conj		1602 Jan 04 18:27	14° \mathcal{Z} 21'28	2°53'02
	1601 Mar 09 05:39	0° \mathcal{X}		minimum elong		1602 Jan 04 15:48	14° \mathcal{Z} 30'18	2°52'21
morning set	1601 Mar 22 13:27	23° \mathcal{X} 15'16		min. Earth dist.		1602 Jan 05 17:17	13° \mathcal{Z} 05'26	0.66822 AU

morning rise	1602 Jan 09 23:55	8°♄08'18	direct	1602 Dec 30 11:34	19°♄27'34	
direct	1602 Jan 15 22:48	5°♄29'08	morning max el	1603 Jan 10 06:08	25°♄53'03	23°51'39
morning max el	1602 Jan 27 21:46	12°♄36'46 25°17'59		1603 Jan 14 00:32	0°♄	
desc. node	1602 Feb 02 13:40	18°♄57'22	desc. node	1603 Jan 20 10:44	8°♄04'34	
	1602 Feb 10 22:35	0°♄		1603 Feb 04 12:07	0°♄	
	1602 Mar 01 23:19	0°♄	morning set	1603 Feb 14 19:08	16°♄50'33	
morning set	1602 Mar 05 03:27	5°♄37'32	max. Earth dist.	1603 Feb 18 15:22	23°♄32'34	1.38522 AU
max. Earth dist.	1602 Mar 08 20:11	12°♄25'27 1.36470 AU		1603 Feb 22 05:18	0°♄	
superior conj	1602 Mar 14 21:11	24°♄05'11 -1°24'01	superior conj	1603 Feb 25 22:53	6°♄57'17 -1°46'11	
minimum elong	1602 Mar 15 01:08	24°♄24'47 1°23'26	minimum elong	1603 Feb 26 03:00	7°♄16'46 1°45'46	
	1602 Mar 17 20:04	0°♄	evening rise	1603 Mar 06 23:25	24°♄27'08	
evening rise	1602 Mar 23 02:08	10°♄39'19		1603 Mar 09 20:05	0°♄	
asc. node	1602 Mar 23 23:31	12°♄26'58	asc. node	1603 Mar 10 20:33	1°♄56'30	
	1602 Apr 02 13:17	0°♄	evening max el	1603 Mar 23 09:56	20°♄59'47 18°51'29	
evening max el	1602 Apr 09 11:44	8°♄51'54 19°43'30	retrograde	1603 Mar 31 16:33	25°♄00'52	
retrograde	1602 Apr 19 07:15	13°♄35'49	evening set	1603 Apr 02 22:23	24°♄44'20	
evening set	1602 Apr 21 08:19	13°♄24'25	inferior conj	1603 Apr 10 20:44	20°♄25'59 2°02'06	
inferior conj	1602 Apr 30 02:02	9°♄22'07 0°25'02	minimum elong	1603 Apr 11 00:40	20°♄18'52 2°00'56	
minimum elong	1602 Apr 30 03:08	9°♄20'25 0°24'39	min. Earth dist.	1603 Apr 14 02:34	18°♄06'26 0.57190 AU	
desc. node	1602 May 01 12:51	8°♄27'40	desc. node	1603 Apr 18 09:52	15°♄33'51	
min. Earth dist.	1602 May 02 10:12	7°♄54'44 0.55668 AU	morning rise	1603 Apr 18 23:51	15°♄18'16	
morning rise	1602 May 08 19:26	4°♄48'02	direct	1603 Apr 24 09:12	14°♄08'08	
direct	1602 May 13 02:50	4°♄06'40	morning max el	1603 May 08 16:51	21°♄36'16 26°02'09	
morning max el	1602 May 27 01:48	11°♄05'46 24°29'10		1603 May 16 00:53	0°♄	
	1602 Jun 10 08:33	0°♄		1603 Jun 02 22:52	0°♄	
asc. node	1602 Jun 19 22:48	18°♄05'17	morning set	1603 Jun 05 20:14	5°♄58'05	
morning set	1602 Jun 21 08:51	21°♄03'16	asc. node	1603 Jun 06 19:52	8°♄03'22	
	1602 Jun 25 12:46	0°♄				
superior conj	1602 Jun 28 08:46	6°♄09'55 1°18'27	superior conj	1603 Jun 12 19:56	21°♄07'29 0°59'39	
minimum elong	1602 Jun 28 06:21	5°♄56'45 1°18'07	minimum elong	1603 Jun 12 17:43	20°♄55'19 0°59'15	
max. Earth dist.	1602 Jun 30 00:54	9°♄46'56 1.33019 AU	max. Earth dist.	1603 Jun 13 10:52	22°♄29'27 1.32425 AU	
evening rise	1602 Jul 05 15:42	21°♄34'37		1603 Jun 16 21:42	0°♄	
	1602 Jul 09 22:10	0°♄	evening rise	1603 Jun 19 19:55	6°♄11'36	
	1602 Jul 28 07:20	0°♄		1603 Jul 02 11:49	0°♄	
desc. node	1602 Jul 28 12:12	0°♄	desc. node	1603 Jul 15 09:12	18°♄33'00	
evening max el	1602 Aug 07 17:13	12°♄05'44 27°25'43	evening max el	1603 Jul 20 23:32	24°♄34'50 27°05'28	
retrograde	1602 Aug 21 10:16	19°♄23'43		1603 Jul 28 05:21	0°♄	
evening set	1602 Aug 28 15:07	16°♄47'53	retrograde	1603 Aug 03 20:59	1°♄49'19	
min. Earth dist.	1602 Sep 01 05:48	13°♄43'04 0.63212 AU		1603 Aug 10 05:33	30°♄	
inferior conj	1602 Sep 03 22:58	11°♄01'30 -3°36'30	evening set	1603 Aug 10 22:19	29°♄35'04	
minimum elong	1602 Sep 04 04:08	10°♄48'40 3°35'03	min. Earth dist.	1603 Aug 14 13:49	26°♄52'17 0.61309 AU	
morning rise	1602 Sep 10 18:27	5°♄47'54	inferior conj	1603 Aug 17 17:22	24°♄07'05 -4°22'09	
direct	1602 Sep 13 06:13	5°♄18'29	minimum elong	1603 Aug 17 22:13	23°♄56'25 4°21'14	
asc. node	1602 Sep 15 22:00	5°♄52'41	morning rise	1603 Aug 24 23:46	19°♄13'55	
morning max el	1602 Sep 19 21:22	8°♄44'21 17°52'02	direct	1603 Aug 27 10:06	18°♄49'39	
	1602 Oct 03 22:40	0°♄	asc. node	1603 Sep 02 19:05	21°♄42'35	
morning set	1602 Oct 06 07:32	4°♄09'17	morning max el	1603 Sep 03 11:29	22°♄20'47 17°59'00	
				1603 Sep 09 10:07	0°♄	
superior conj	1602 Oct 18 05:01	24°♄34'50 0°41'38	morning set	1603 Sep 19 08:20	17°♄21'23	
minimum elong	1602 Oct 18 08:57	24°♄51'12 0°41'06		1603 Sep 26 06:45	0°♄	
	1602 Oct 21 11:53	0°♄	superior conj	1603 Sep 29 14:34	5°♄53'54 1°14'18	
desc. node	1602 Oct 24 11:32	4°♄50'28	minimum elong	1603 Sep 29 19:06	6°♄13'47 1°13'48	
max. Earth dist.	1602 Oct 24 15:40	5°♄07'03 1.43821 AU	max. Earth dist.	1603 Oct 07 03:41	18°♄45'25 1.42261 AU	
evening rise	1602 Nov 02 16:21	19°♄19'50	desc. node	1603 Oct 11 08:34	25°♄36'57	
	1602 Nov 09 16:13	0°♄	evening rise	1603 Oct 13 08:03	28°♄46'34	
	1602 Dec 01 10:30	0°♄		1603 Oct 14 02:37	0°♄	
evening max el	1602 Dec 02 03:25	0°♄44'21 20°59'27		1603 Nov 03 08:29	0°♄	
retrograde	1602 Dec 10 14:15	5°♄44'51	evening max el	1603 Nov 14 22:18	14°♄15'46 22°14'29	
asc. node	1602 Dec 12 21:15	5°♄15'30	retrograde	1603 Nov 24 10:20	19°♄54'46	
evening set	1602 Dec 14 14:45	4°♄13'04	evening set	1603 Nov 28 22:25	18°♄06'18	
	1602 Dec 18 12:33	30°♄	asc. node	1603 Nov 29 18:18	17°♄22'10	
inferior conj	1602 Dec 19 23:40	28°♄01'09 2°15'01	inferior conj	1603 Dec 04 06:50	11°♄46'55 1°30'11	
minimum elong	1602 Dec 19 21:10	28°♄09'46 2°14'11	minimum elong	1603 Dec 04 04:55	11°♄53'33 1°29'26	
min. Earth dist.	1602 Dec 20 10:03	27°♄25'29 0.67483 AU	min. Earth dist.	1603 Dec 04 05:57	11°♄49'59 0.67782 AU	
morning rise	1602 Dec 25 03:22	21°♄47'59	morning rise	1603 Dec 09 11:17	5°♄35'43	

direct	1603 Dec 14 04:26	3° ♁ 37'46		morning rise	1604 Nov 22 21:30	19° ♁ 29'18	
morning max el	1603 Dec 23 16:59	9° ♁ 15'05	22°23'43	direct	1604 Nov 27 00:25	17° ♁ 54'08	
desc. node	1604 Jan 07 07:48	27° ♁ 45'09		morning max el	1604 Dec 05 09:50	22° ♁ 46'40	21°02'10
	1604 Jan 08 21:29	0° ♁			1604 Dec 11 13:53	0° ♁	
morning set	1604 Jan 26 06:45	26° ♁ 40'45		desc. node	1604 Dec 24 04:51	17° ♁ 49'37	
	1604 Jan 28 07:21	0° ♁			1605 Jan 01 05:43	0° ♁	
max. Earth dist.	1604 Jan 31 12:04	5° ♁ 20'36	1.40669 AU	morning set	1605 Jan 04 14:53	5° ♁ 15'15	
				max. Earth dist.	1605 Jan 12 15:32	18° ♁ 04'32	1.42612 AU
superior conj	1604 Feb 08 07:21	18° ♁ 56'50	-2°00'55				
minimum elong	1604 Feb 08 09:53	19° ♁ 08'12	2°00'49	superior conj	1605 Jan 19 17:12	29° ♁ 51'05	-2°03'42
	1604 Feb 14 08:08	0° ♁		minimum elong	1605 Jan 19 15:41	29° ♁ 44'38	2°03'41
evening rise	1604 Feb 18 10:27	7° ♁ 40'48			1605 Jan 19 19:18	0° ♁	
asc. node	1604 Feb 25 17:36	21° ♁ 02'31		evening rise	1605 Jan 31 07:21	20° ♁ 11'55	
	1604 Mar 02 12:12	0° ♁			1605 Feb 05 19:17	0° ♁	
evening max el	1604 Mar 05 16:04	3° ♁ 39'02	18°19'34	asc. node	1605 Feb 11 14:39	9° ♁ 37'26	
retrograde	1604 Mar 12 21:06	7° ♁ 13'56		evening max el	1605 Feb 17 02:56	16° ♁ 40'58	18°07'30
evening set	1604 Mar 15 08:47	6° ♁ 49'25		retrograde	1605 Feb 23 18:03	20° ♁ 05'27	
inferior conj	1604 Mar 22 12:46	2° ♁ 10'21	3°05'19	evening set	1605 Feb 26 10:54	19° ♁ 31'29	
minimum elong	1604 Mar 22 16:18	2° ♁ 02'53	3°04'37	inferior conj	1605 Mar 05 00:06	14° ♁ 31'33	3°37'09
	1604 Mar 25 02:20	30° ♁		minimum elong	1605 Mar 05 01:43	14° ♁ 27'35	3°37'01
min. Earth dist.	1604 Mar 25 23:07	29° ♁ 17'39	0.59194 AU	min. Earth dist.	1605 Mar 08 02:52	11° ♁ 30'15	0.61327 AU
morning rise	1604 Mar 29 21:20	26° ♁ 35'12		morning rise	1605 Mar 11 14:55	8° ♁ 38'25	
desc. node	1604 Apr 04 06:56	24° ♁ 50'52		direct	1605 Mar 18 10:50	6° ♁ 17'48	
direct	1604 Apr 05 04:30	24° ♁ 48'43		desc. node	1605 Mar 22 03:59	6° ♁ 56'00	
	1604 Apr 16 17:19	0° ♁		morning max el	1605 Apr 01 15:17	14° ♁ 11'24	27°45'55
morning max el	1604 Apr 19 12:48	2° ♁ 33'16	27°11'10		1605 Apr 14 08:57	0° ♁	
	1604 May 09 09:45	0° ♁			1605 May 01 19:35	0° ♁	
morning set	1604 May 20 05:24	20° ♁ 44'49		morning set	1605 May 04 10:33	5° ♁ 17'19	
asc. node	1604 May 23 16:54	28° ♁ 09'22		max. Earth dist.	1605 May 10 10:26	17° ♁ 59'59	1.32381 AU
	1604 May 24 13:16	0° ♁		asc. node	1605 May 10 13:57	18° ♁ 19'08	
superior conj	1604 May 27 07:43	6° ♁ 04'12	0°37'26	superior conj	1605 May 11 18:28	20° ♁ 54'40	0°12'33
minimum elong	1604 May 27 06:08	5° ♁ 55'32	0°37'07	minimum elong	1605 May 11 17:54	20° ♁ 51'30	0°12'25
max. Earth dist.	1604 May 26 23:21	5° ♁ 18'14	1.32212 AU	behind sun begin	1605 May 11 14:42	20° ♁ 34'05	
evening rise	1604 Jun 03 04:41	21° ♁ 00'05		behind sun end	1605 May 11 21:05	21° ♁ 08'56	
	1604 Jun 07 14:19	0° ♁			1605 May 15 22:16	0° ♁	
	1604 Jun 26 05:09	0° ♁		evening rise	1605 May 18 15:57	5° ♁ 53'02	
desc. node	1604 Jul 01 06:14	5° ♁ 36'39			1605 May 31 09:40	0° ♁	
evening max el	1604 Jul 01 23:10	6° ♁ 17'46	26°12'18	evening max el	1605 Jun 13 15:47	17° ♁ 15'38	24°52'08
retrograde	1604 Jul 15 23:04	13° ♁ 28'59		desc. node	1605 Jun 18 03:13	20° ♁ 57'56	
evening set	1604 Jul 22 09:00	11° ♁ 48'13		retrograde	1605 Jun 27 14:57	24° ♁ 20'47	
min. Earth dist.	1604 Jul 26 11:55	9° ♁ 11'47	0.59253 AU	evening set	1605 Jul 02 20:05	23° ♁ 18'50	
inferior conj	1604 Jul 29 19:27	6° ♁ 40'42	-4°51'11	min. Earth dist.	1605 Jul 08 03:08	20° ♁ 30'12	0.57288 AU
minimum elong	1604 Jul 29 21:50	6° ♁ 36'08	4°51'00	inferior conj	1605 Jul 11 02:04	18° ♁ 33'09	-4°51'24
morning rise	1604 Aug 06 12:48	2° ♁ 10'23		minimum elong	1605 Jul 10 23:39	18° ♁ 37'10	4°51'14
direct	1604 Aug 09 00:14	1° ♁ 49'16		morning rise	1605 Jul 19 05:56	14° ♁ 24'44	
morning max el	1604 Aug 16 20:28	5° ♁ 35'18	18°25'50	direct	1605 Jul 21 20:14	14° ♁ 05'30	
asc. node	1604 Aug 19 16:09	8° ♁ 42'51		morning max el	1605 Jul 30 21:16	18° ♁ 18'47	19°13'39
	1604 Sep 01 07:22	0° ♁		asc. node	1605 Aug 06 13:12	26° ♁ 38'39	
morning set	1604 Sep 01 22:13	1° ♁ 11'07			1605 Aug 08 15:08	0° ♁	
				morning set	1605 Aug 16 21:17	15° ♁ 27'51	
superior conj	1604 Sep 10 23:33	18° ♁ 22'15	1°34'48		1605 Aug 24 04:59	0° ♁	
minimum elong	1604 Sep 11 02:39	18° ♁ 36'32	1°34'34	superior conj	1605 Aug 25 02:20	1° ♁ 43'55	1°44'32
	1604 Sep 17 10:56	0° ♁		minimum elong	1605 Aug 25 03:28	1° ♁ 49'26	1°44'30
max. Earth dist.	1604 Sep 18 10:31	1° ♁ 42'21	1.40329 AU	max. Earth dist.	1605 Aug 31 13:59	13° ♁ 56'40	1.38280 AU
evening rise	1604 Sep 22 20:19	9° ♁ 10'20		evening rise	1605 Sep 04 08:52	20° ♁ 42'11	
desc. node	1604 Sep 27 05:35	16° ♁ 18'47			1605 Sep 09 20:18	0° ♁	
	1604 Oct 06 03:03	0° ♁		desc. node	1605 Sep 14 02:35	6° ♁ 52'02	
evening max el	1604 Oct 27 12:45	27° ♁ 49'13	23°34'18		1605 Sep 30 04:00	0° ♁	
	1604 Oct 29 20:38	0° ♁		evening max el	1605 Oct 10 00:50	11° ♁ 25'55	24°52'28
retrograde	1604 Nov 07 03:31	4° ♁ 05'25		retrograde	1605 Oct 21 16:44	18° ♁ 12'53	
evening set	1604 Nov 12 04:46	1° ♁ 59'36		evening set	1605 Oct 27 08:10	15° ♁ 50'36	
	1604 Nov 14 04:35	30° ♁		min. Earth dist.	1605 Oct 31 21:36	10° ♁ 40'49	0.67362 AU
asc. node	1604 Nov 15 15:22	28° ♁ 13'31		inferior conj	1605 Nov 01 19:42	9° ♁ 27'49	-0°14'26
min. Earth dist.	1604 Nov 17 02:34	26° ♁ 15'50	0.67736 AU	minimum elong	1605 Nov 01 20:03	9° ♁ 26'39	0°14'16
inferior conj	1604 Nov 17 14:05	25° ♁ 36'28	0°39'56	transit middle	1605 Nov 01 20:03	9° ♁ 26'39	0°14'16
minimum elong	1604 Nov 17 13:09	25° ♁ 39'39	0°39'32				

transit begin	1605 Nov 01 18:44	9°♄31'00			1606 Sep 28 13:40	0°♄	
transit end	1605 Nov 01 21:22	9°♄22'18		retrograde	1606 Oct 05 01:17	2°♄12'18	
asc. node	1605 Nov 02 12:25	8°♄32'51			1606 Oct 10 19:20	30°♄	
morning rise	1605 Nov 07 08:05	3°♄26'58		evening set	1606 Oct 11 06:47	29°♄36'41	
direct	1605 Nov 10 22:22	2°♄12'28		min. Earth dist.	1606 Oct 15 12:41	25°♄02'33	0.66653 AU
morning max el	1605 Nov 18 10:23	6°♄28'57	19°52'17	inferior conj	1606 Oct 16 21:52	23°♄18'43	-1°11'27
	1605 Dec 05 16:58	0°♄		minimum elong	1606 Oct 16 23:44	23°♄12'53	1°10'39
desc. node	1605 Dec 11 01:52	8°♄11'00		asc. node	1606 Oct 20 09:27	19°♄18'01	
morning set	1605 Dec 14 10:51	13°♄22'43		morning rise	1606 Oct 22 17:03	17°♄26'54	
	1605 Dec 25 01:52	0°♄		direct	1606 Oct 25 20:52	16°♄29'39	
max. Earth dist.	1605 Dec 26 02:02	1°♄36'03	1.44103 AU	morning max el	1606 Nov 01 18:12	20°♄20'11	18°57'10
					1606 Nov 09 08:38	0°♄	
superior conj	1605 Dec 31 00:35	9°♄32'16	-1°49'42	morning set	1606 Nov 23 20:05	22°♄17'08	
minimum elong	1605 Dec 30 17:45	9°♄04'36	1°49'13	desc. node	1606 Nov 27 22:54	28°♄44'44	
	1606 Jan 12 07:39	0°♄			1606 Nov 28 18:05	0°♄	
evening rise	1606 Jan 13 09:41	1°♄50'58		max. Earth dist.	1606 Dec 08 18:10	15°♄41'50	1.44962 AU
asc. node	1606 Jan 29 11:42	27°♄30'53					
evening max el	1606 Jan 31 15:27	29°♄56'38	18°14'41	superior conj	1606 Dec 10 09:07	18°♄15'09	-1°16'49
	1606 Jan 31 16:48	0°♄		minimum elong	1606 Dec 10 00:34	17°♄41'26	1°15'52
retrograde	1606 Feb 07 02:37	3°♄24'12			1606 Dec 17 18:51	0°♄	
evening set	1606 Feb 10 00:29	2°♄39'45		evening rise	1606 Dec 25 13:42	12°♄32'59	
	1606 Feb 13 13:29	30°♄			1607 Jan 05 08:52	0°♄	
inferior conj	1606 Feb 16 02:37	27°♄20'10	3°44'44	evening max el	1607 Jan 15 03:04	13°♄20'49	18°40'11
minimum elong	1606 Feb 16 02:17	27°♄21'05	3°44'44	asc. node	1607 Jan 16 08:43	14°♄31'16	
min. Earth dist.	1606 Feb 18 15:43	24°♄32'52	0.63316 AU	retrograde	1607 Jan 21 18:41	17°♄02'52	
morning rise	1606 Feb 22 03:11	21°♄16'47		evening set	1607 Jan 24 22:11	16°♄06'50	
direct	1606 Mar 01 02:01	18°♄32'58		inferior conj	1607 Jan 30 16:28	10°♄29'20	3°34'30
desc. node	1606 Mar 09 01:02	21°♄28'07		minimum elong	1607 Jan 30 14:44	10°♄34'36	3°34'17
morning max el	1606 Mar 14 22:34	26°♄28'15	27°43'21	min. Earth dist.	1607 Feb 01 14:04	8°♄11'58	0.64994 AU
	1606 Mar 18 05:51	0°♄		morning rise	1607 Feb 05 06:50	4°♄20'19	
	1606 Apr 07 22:46	0°♄		direct	1607 Feb 12 00:27	1°♄28'12	
morning set	1606 Apr 18 09:16	19°♄26'59		desc. node	1607 Feb 23 22:05	7°♄52'20	
max. Earth dist.	1606 Apr 23 15:55	0°♄19'55	1.32951 AU	morning max el	1607 Feb 25 08:02	9°♄14'51	27°06'36
	1606 Apr 23 12:09	0°♄			1607 Mar 13 14:28	0°♄	
					1607 Mar 31 08:04	0°♄	
superior conj	1606 Apr 26 02:23	5°♄32'06	-0°14'17	morning set	1607 Apr 01 22:36	3°♄04'25	
minimum elong	1606 Apr 26 03:05	5°♄35'50	0°14'09	max. Earth dist.	1607 Apr 06 12:04	12°♄07'52	1.33962 AU
behind sun begin	1606 Apr 26 00:39	5°♄22'45					
behind sun end	1606 Apr 26 05:31	5°♄48'56		superior conj	1607 Apr 10 05:29	19°♄50'20	-0°42'02
asc. node	1606 Apr 27 10:58	8°♄27'47		minimum elong	1607 Apr 10 07:35	20°♄01'23	0°41'36
evening rise	1606 May 03 03:45	20°♄43'10		asc. node	1607 Apr 14 08:00	28°♄31'28	
	1606 May 07 16:26	0°♄			1607 Apr 15 00:41	0°♄	
evening max el	1606 May 26 05:37	27°♄47'29	23°17'40	evening rise	1607 Apr 17 14:15	5°♄24'25	
	1606 May 28 17:24	0°♄			1607 May 01 01:56	0°♄	
desc. node	1606 Jun 05 00:14	4°♄00'56		evening max el	1607 May 08 00:04	8°♄24'27	21°43'54
retrograde	1606 Jun 08 18:35	4°♄33'12		retrograde	1607 May 20 10:35	14°♄30'18	
evening set	1606 Jun 12 11:44	4°♄02'56		evening set	1607 May 22 23:28	14°♄15'51	
min. Earth dist.	1606 Jun 19 15:31	0°♄47'40	0.55751 AU	desc. node	1607 May 22 21:16	14°♄16'52	
	1606 Jun 20 23:56	30°♄		inferior conj	1607 Jun 01 09:22	10°♄13'29	-2°39'56
inferior conj	1606 Jun 21 12:49	29°♄40'57	-4°09'06	minimum elong	1607 Jun 01 02:23	10°♄23'15	2°37'42
minimum elong	1606 Jun 21 05:46	29°♄51'22	4°07'40	min. Earth dist.	1607 Jun 01 03:33	10°♄21'37	0.54974 AU
morning rise	1606 Jun 30 02:24	25°♄46'37		morning rise	1607 Jun 10 06:21	6°♄18'10	
direct	1606 Jul 02 21:00	25°♄27'55		direct	1607 Jun 13 09:02	5°♄56'51	
	1606 Jul 13 01:33	0°♄		morning max el	1607 Jun 25 14:06	11°♄41'47	21°50'35
morning max el	1606 Jul 13 11:23	0°♄22'20	20°22'39		1607 Jul 08 21:20	0°♄	
asc. node	1606 Jul 24 10:14	15°♄17'03		asc. node	1607 Jul 11 07:15	4°♄27'39	
morning set	1606 Aug 01 02:35	0°♄03'43		morning set	1607 Jul 16 11:52	14°♄52'14	
	1606 Aug 01 01:52	0°♄					
				superior conj	1607 Jul 23 18:16	0°♄11'23	1°39'18
superior conj	1606 Aug 08 17:52	15°♄44'14	1°45'28	minimum elong	1607 Jul 23 16:32	0°♄02'19	1°39'11
minimum elong	1606 Aug 08 17:18	15°♄41'23	1°45'27		1607 Jul 23 16:06	0°♄	
max. Earth dist.	1606 Aug 13 19:50	25°♄47'49	1.36364 AU	max. Earth dist.	1607 Jul 27 09:40	7°♄42'51	1.34762 AU
	1606 Aug 16 00:49	0°♄		evening rise	1607 Jul 31 22:04	16°♄39'28	
evening rise	1606 Aug 17 19:00	3°♄16'10			1607 Aug 08 04:44	0°♄	
desc. node	1606 Aug 31 23:35	27°♄11'47		desc. node	1607 Aug 18 20:35	17°♄11'06	
	1606 Sep 02 19:49	0°♄			1607 Aug 28 05:34	0°♄	
evening max el	1606 Sep 22 12:42	25°♄05'16	26°01'39	evening max el	1607 Sep 05 01:02	8°♄40'10	26°54'07

retrograde	1607 Sep 18 04:21	15° Ω 56'23		retrograde	1608 Aug 31 01:31	29° Π 17'34	
evening set	1607 Sep 24 22:27	13° Ω 13'08		evening set	1608 Sep 07 04:27	26° Π 35'33	
min. Earth dist.	1607 Sep 28 21:22	9° Ω 15'40	0.65599 AU	min. Earth dist.	1608 Sep 10 21:24	23° Π 13'16	0.64192 AU
inferior conj	1607 Sep 30 18:34	7° Ω 04'32	-2°09'27	inferior conj	1608 Sep 13 07:23	20° Π 40'17	-3°05'58
minimum elong	1607 Sep 30 21:59	6° Ω 54'35	2°08'07	minimum elong	1608 Sep 13 12:07	20° Π 27'47	3°04'25
morning rise	1607 Oct 06 22:10	1° Ω 24'52		morning rise	1608 Sep 19 20:48	15° Π 16'17	
asc. node	1607 Oct 07 06:29	1° Ω 14'51		direct	1608 Sep 22 10:49	14° Π 42'28	
direct	1607 Oct 09 17:51	0° Ω 41'07		asc. node	1608 Sep 23 03:31	14° Π 44'58	
morning max el	1607 Oct 16 07:19	4° Ω 15'10	18°18'17	morning max el	1608 Sep 28 23:11	18° Π 08'35	17°56'28
	1607 Nov 02 18:45	0° Π			1608 Oct 07 14:29	0° Ω	
morning set	1607 Nov 04 09:13	2° Π 36'37		morning set	1608 Oct 16 02:07	14° Ω 17'04	
desc. node	1607 Nov 14 19:55	19° Π 26'21			1608 Oct 25 10:23	0° Π	
superior conj	1607 Nov 19 10:36	26° Π 44'41	-0°30'27	superior conj	1608 Oct 29 02:26	6° Π 00'11	0°17'29
minimum elong	1607 Nov 19 06:38	26° Π 29'05	0°29'56	minimum elong	1608 Oct 29 04:24	6° Π 08'10	0°17'13
max. Earth dist.	1607 Nov 21 13:16	0° Σ 04'11	1.45091 AU	desc. node	1608 Oct 31 16:57	10° Π 12'23	
	1607 Nov 21 12:12	0° Σ		max. Earth dist.	1608 Nov 03 07:50	14° Π 23'27	1.44483 AU
evening rise	1607 Dec 05 18:30	22° Σ 19'36			1608 Nov 13 07:21	0° Σ	
	1607 Dec 10 16:18	0° Σ		evening rise	1608 Nov 14 06:11	1° Σ 28'00	
greatest brilliancy	1607 Dec 17 00:37	9° Σ 50'15	-0.7m		1608 Dec 03 09:05	0° Σ	
evening max el	1607 Dec 29 11:31	26° Σ 49'00	19°22'45	evening max el	1608 Dec 11 15:03	10° Σ 18'25	20°20'28
	1608 Jan 02 09:47	0° \approx		retrograde	1608 Dec 19 12:50	14° Σ 57'39	
asc. node	1608 Jan 03 05:45	0° \approx 24'26		asc. node	1608 Dec 20 02:48	14° Σ 55'44	
retrograde	1608 Jan 05 14:58	0° \approx 55'32		evening set	1608 Dec 23 07:41	13° Σ 34'30	
	1608 Jan 08 16:55	30° \mathcal{R} Σ		inferior conj	1608 Dec 28 17:34	7° Σ 28'15	2°37'49
evening set	1608 Jan 09 01:20	29° Σ 46'39		minimum elong	1608 Dec 28 14:55	7° Σ 37'13	2°37'02
inferior conj	1608 Jan 14 14:21	23° Σ 53'22	3°11'08	min. Earth dist.	1608 Dec 29 10:50	6° Σ 29'50	0.67153 AU
minimum elong	1608 Jan 14 11:52	24° Σ 01'26	3°10'36	morning rise	1609 Jan 02 21:59	1° Σ 15'01	
min. Earth dist.	1608 Jan 15 21:00	22° Σ 14'17	0.66276 AU		1609 Jan 04 12:46	30° \mathcal{R} Σ	
morning rise	1608 Jan 19 22:10	17° Σ 41'23		direct	1609 Jan 08 14:41	28° Σ 43'27	
direct	1608 Jan 26 04:54	14° Σ 54'36			1609 Jan 13 02:40	0° Σ	
morning max el	1608 Feb 07 17:26	22° Σ 19'48	26°03'02	morning max el	1609 Jan 20 02:00	5° Σ 33'54	24°42'04
desc. node	1608 Feb 10 19:08	25° Σ 37'12		desc. node	1609 Jan 27 16:11	14° Σ 19'16	
	1608 Feb 14 11:27	0° \approx			1609 Feb 07 23:30	0° \approx	
	1608 Mar 05 20:59	0° \mathcal{H}		morning set	1609 Feb 25 03:49	27° \approx 52'17	
morning set	1608 Mar 14 22:34	15° \mathcal{H} 57'56			1609 Feb 26 08:36	0° \mathcal{H}	
max. Earth dist.	1608 Mar 18 20:45	23° \mathcal{H} 24'11	1.35432 AU	max. Earth dist.	1609 Feb 28 19:35	4° \mathcal{H} 26'44	1.37314 AU
	1608 Mar 22 05:12	0° Υ					
superior conj	1608 Mar 24 01:20	3° Υ 42'18	-1°09'17	superior conj	1609 Mar 07 10:46	16° \mathcal{H} 58'48	-1°34'05
minimum elong	1608 Mar 24 04:44	3° Υ 59'35	1°08'42	minimum elong	1609 Mar 07 14:57	17° \mathcal{H} 19'08	1°33'34
asc. node	1608 Mar 31 05:03	18° Υ 26'01			1609 Mar 14 00:21	0° Υ	
evening rise	1608 Mar 31 21:33	19° Υ 50'45		evening rise	1609 Mar 15 23:18	3° Υ 54'46	
	1608 Apr 06 00:10	0° \mathcal{B}		asc. node	1609 Mar 18 02:06	8° Υ 06'13	
evening max el	1608 Apr 19 04:43	19° \mathcal{B} 31'17	20°22'22		1609 Mar 31 15:04	0° \mathcal{B}	
retrograde	1608 Apr 29 23:56	24° \mathcal{B} 45'00		evening max el	1609 Apr 01 20:51	1° \mathcal{B} 16'38	19°18'54
evening set	1608 May 02 01:29	24° \mathcal{B} 34'21		retrograde	1609 Apr 10 23:39	5° \mathcal{B} 41'02	
desc. node	1608 May 08 18:18	21° \mathcal{B} 59'14		evening set	1609 Apr 13 02:15	5° \mathcal{B} 27'55	
inferior conj	1608 May 11 04:24	20° \mathcal{B} 36'21	-0°42'16	inferior conj	1609 Apr 21 11:51	1° \mathcal{B} 19'20	1°10'05
minimum elong	1608 May 11 02:24	20° \mathcal{B} 39'16	0°41'32	minimum elong	1609 Apr 21 14:36	1° \mathcal{B} 14'46	1°09'08
min. Earth dist.	1608 May 12 16:28	19° \mathcal{B} 43'42	0.55141 AU		1609 Apr 23 11:40	30° \mathcal{R} Υ	
morning rise	1608 May 20 02:04	16° \mathcal{B} 21'11		min. Earth dist.	1609 Apr 24 07:13	29° Υ 28'19	0.56226 AU
direct	1608 May 23 20:30	15° \mathcal{B} 50'29		desc. node	1609 Apr 25 15:21	28° Υ 38'30	
morning max el	1608 Jun 06 07:58	22° \mathcal{B} 24'48	23°30'46	morning rise	1609 Apr 30 00:05	26° Υ 30'47	
	1608 Jun 12 23:59	0° Π		direct	1609 May 04 18:11	25° Υ 38'58	
asc. node	1608 Jun 27 04:18	24° Π 02'14			1609 May 15 14:53	0° \mathcal{B}	
morning set	1608 Jun 29 23:19	29° Π 48'12		morning max el	1609 May 18 22:29	2° \mathcal{B} 51'57	25°10'55
	1608 Jun 30 01:34	0° \mathcal{E}			1609 Jun 07 01:11	0° Π	
superior conj	1608 Jul 07 00:39	14° \mathcal{E} 56'41	1°27'27	morning set	1609 Jun 14 11:11	14° Π 44'48	
minimum elong	1608 Jul 06 22:20	14° \mathcal{E} 44'11	1°27'11	asc. node	1609 Jun 14 01:22	13° Π 53'07	
max. Earth dist.	1608 Jul 09 09:01	19° \mathcal{E} 57'25	1.33543 AU	superior conj	1609 Jun 21 10:38	29° Π 51'23	1°10'57
	1608 Jul 14 05:41	0° Ω		minimum elong	1609 Jun 21 08:14	29° Π 38'19	1°10'34
evening rise	1608 Jul 14 13:41	0° Ω 40'04			1609 Jun 21 12:12	0° \mathcal{E}	
	1608 Jul 31 04:21	0° Π		max. Earth dist.	1609 Jun 22 15:55	2° \mathcal{E} 30'58	1.32716 AU
desc. node	1608 Aug 04 17:36	6° Π 41'18		evening rise	1609 Jun 28 14:06	15° \mathcal{E} 05'50	
evening max el	1608 Aug 17 12:42	21° Π 59'32	27°22'28		1609 Jul 06 06:15	0° Ω	
				desc. node	1609 Jul 22 14:38	25° Ω 29'26	

































































































































	1609 Jul 26 07:22	0°♍		evening max el	1610 Jul 13 00:56	16°♌58'47	26°46'39
evening max el	1609 Jul 30 21:29	4°♍49'35	27°21'03	retrograde	1610 Jul 26 23:58	24°♌12'50	
retrograde	1609 Aug 13 16:25	12°♍06'15		evening set	1610 Aug 02 20:17	22°♌11'23	
evening set	1609 Aug 20 21:14	9°♍37'33		min. Earth dist.	1610 Aug 06 14:49	19°♌33'32	0.60437 AU
min. Earth dist.	1609 Aug 24 11:13	6°♍44'04	0.62440 AU	inferior conj	1610 Aug 09 21:17	16°♌51'36	-4°37'10
inferior conj	1609 Aug 27 09:26	3°♍58'52	-3°57'17	minimum elong	1610 Aug 10 01:24	16°♌43'03	4°36'35
minimum elong	1609 Aug 27 14:41	3°♍46'30	3°55'59	morning rise	1610 Aug 17 08:25	12°♌08'16	
	1609 Sep 01 04:51	30°♌♌		direct	1610 Aug 19 18:46	11°♌45'42	
morning rise	1609 Sep 03 09:34	28°♌53'53		morning max el	1610 Aug 27 03:15	15°♌22'02	18°07'56
direct	1609 Sep 05 20:26	28°♌26'58		asc. node	1610 Aug 27 21:39	16°♌08'31	
asc. node	1609 Sep 10 00:35	29°♌47'01			1610 Sep 06 06:53	0°♍	
	1609 Sep 10 08:29	0°♍		morning set	1610 Sep 11 23:56	10°♍29'57	
morning max el	1609 Sep 12 14:53	1°♍53'40	17°52'40				
morning set	1609 Sep 28 17:01	27°♍00'34		superior conj	1610 Sep 21 16:44	28°♍24'40	1°24'25
	1609 Sep 30 09:08	0°♎		minimum elong	1610 Sep 21 20:48	28°♍42'54	1°24'01
					1610 Sep 22 14:04	0°♎	
superior conj	1609 Oct 09 20:33	16°♎34'06	0°57'00	max. Earth dist.	1610 Sep 29 07:50	11°♎40'19	1.41467 AU
minimum elong	1609 Oct 10 01:06	16°♎53'29	0°56'25	evening rise	1610 Oct 04 14:43	20°♎23'15	
max. Earth dist.	1609 Oct 16 22:39	28°♎20'43	1.43218 AU	desc. node	1610 Oct 05 10:58	21°♎44'43	
	1609 Oct 17 23:09	0°♎			1610 Oct 10 16:50	0°♎	
desc. node	1609 Oct 18 13:58	0°♎59'43			1610 Oct 31 19:35	0°♏	
evening rise	1609 Oct 24 15:21	10°♎35'03		evening max el	1610 Nov 07 05:34	7°♏20'31	22°48'13
	1609 Nov 06 11:33	0°♏		retrograde	1610 Nov 17 05:16	13°♏16'24	
evening max el	1609 Nov 24 12:53	23°♏48'37	21°30'23	evening set	1610 Nov 21 22:39	11°♏20'46	
retrograde	1609 Dec 03 10:11	29°♏05'52		asc. node	1610 Nov 23 20:54	9°♏26'33	
asc. node	1609 Dec 06 23:51	27°♏55'21		inferior conj	1610 Nov 27 07:17	4°♏59'10	1°09'26
evening set	1609 Dec 07 15:22	27°♏27'02		minimum elong	1610 Nov 27 05:45	5°♏04'29	1°08'49
inferior conj	1609 Dec 12 23:52	21°♏11'13	1°56'44	min. Earth dist.	1610 Nov 27 01:53	5°♏17'51	0.67801 AU
minimum elong	1609 Dec 12 21:34	21°♏19'11	1°55'54		1610 Dec 01 06:14	30°♌♌	
min. Earth dist.	1609 Dec 13 05:17	20°♏52'30	0.67648 AU	morning rise	1610 Dec 02 12:43	28°♌49'08	
morning rise	1609 Dec 18 03:36	14°♏58'33		direct	1610 Dec 06 23:36	27°♌00'57	
direct	1609 Dec 23 05:13	12°♏47'41			1610 Dec 13 11:49	0°♏	
morning max el	1610 Jan 02 11:13	18°♏53'21	23°13'55	morning max el	1610 Dec 16 00:11	2°♏18'56	21°47'45
	1610 Jan 11 19:20	0°♐		desc. node	1611 Jan 01 10:14	23°♏33'48	
desc. node	1610 Jan 14 13:14	3°♐42'11			1611 Jan 05 19:07	0°♐	
	1610 Feb 01 03:19	0°♑		morning set	1611 Jan 17 07:15	17°♐46'37	
morning set	1610 Feb 06 08:11	8°♑31'51		max. Earth dist.	1611 Jan 23 13:03	27°♐56'53	1.41536 AU
max. Earth dist.	1610 Feb 10 14:34	15°♑48'17	1.39435 AU		1611 Jan 24 18:33	0°♑	
superior conj	1610 Feb 18 05:46	29°♑30'03	-1°53'35	superior conj	1611 Jan 31 05:10	11°♑02'57	-2°03'52
minimum elong	1610 Feb 18 09:29	29°♑47'16	1°53'19	minimum elong	1611 Jan 31 06:17	11°♑07'51	2°03'51
	1610 Feb 18 12:14	0°♒		evening rise	1611 Feb 10 22:09	0°♒25'29	
evening rise	1610 Feb 27 16:42	17°♒29'26			1611 Feb 10 16:38	0°♒	
asc. node	1610 Mar 04 23:10	27°♒26'53		asc. node	1611 Feb 19 20:13	16°♒20'37	
	1610 Mar 06 09:12	0°♓		evening max el	1611 Feb 27 07:20	26°♒28'48	18°12'06
evening max el	1610 Mar 15 22:47	13°♓38'50	18°35'27	retrograde	1611 Mar 06 05:04	29°♒57'11	
retrograde	1610 Mar 23 17:17	17°♓27'02		evening set	1611 Mar 08 19:02	29°♒28'49	
evening set	1610 Mar 26 01:28	17°♓07'31		inferior conj	1611 Mar 15 16:18	24°♒41'08	3°22'12
inferior conj	1610 Apr 02 15:41	12°♓40'43	2°33'06	minimum elong	1611 Mar 15 19:05	24°♒34'50	3°21'47
minimum elong	1610 Apr 02 19:45	12°♓32'50	2°32'03	min. Earth dist.	1611 Mar 19 00:44	21°♒41'26	0.60107 AU
min. Earth dist.	1610 Apr 06 01:19	10°♓03'59	0.57999 AU	morning rise	1611 Mar 22 16:59	18°♒57'17	
morning rise	1610 Apr 10 11:00	7°♓19'44		direct	1611 Mar 29 07:02	16°♒54'58	
desc. node	1610 Apr 12 12:24	6°♓30'19		desc. node	1611 Mar 30 09:26	16°♒58'16	
direct	1610 Apr 16 06:22	5°♓54'30		morning max el	1611 Apr 12 13:59	24°♒44'37	27°30'25
morning max el	1610 Apr 30 15:26	13°♓31'44	26°35'14		1611 Apr 17 09:25	0°♓	
	1610 May 13 16:26	0°♔			1611 May 06 23:03	0°♔	
morning set	1610 May 29 21:49	29°♔36'41		morning set	1611 May 14 05:30	14°♔17'51	
	1610 May 30 02:16	0°♕		asc. node	1611 May 18 19:29	24°♔03'10	
asc. node	1610 May 31 22:26	3°♕55'00		max. Earth dist.	1611 May 20 15:21	28°♔02'37	1.32230 AU
superior conj	1610 Jun 05 22:16	14°♕49'08	0°50'37	superior conj	1611 May 21 09:49	29°♔43'55	0°27'11
minimum elong	1610 Jun 05 20:16	14°♕38'10	0°50'14	minimum elong	1611 May 21 08:37	29°♔37'23	0°26'55
max. Earth dist.	1610 Jun 06 03:12	15°♕16'20	1.32282 AU		1611 May 21 12:44	0°♕	
evening rise	1610 Jun 12 20:30	29°♕48'07		evening rise	1611 May 28 06:33	14°♕39'15	
	1610 Jun 12 22:46	0°♖			1611 Jun 04 23:19	0°♖	
	1610 Jun 29 10:54	0°♗		evening max el	1611 Jun 24 21:34	28°♖22'15	25°41'04
desc. node	1610 Jul 09 11:40	13°♗17'59		desc. node	1611 Jun 26 08:41	29°♖42'31	

	1611 Jun 26 16:46	0°♎			1612 May 11 23:33	0°♊	
retrograde	1611 Jul 08 22:13	5°♎31'43			1612 May 28 19:09	0°♊	
evening set	1611 Jul 14 21:06	4°♎07'50		evening max el	1612 Jun 05 12:26	9°♊06'24	24°12'55
min. Earth dist.	1611 Jul 19 09:52	1°♎28'02	0.58379 AU	desc. node	1612 Jun 12 05:42	14°♊09'52	
	1611 Jul 21 11:24	30°♋♊		retrograde	1612 Jun 19 08:33	16°♊04'43	
inferior conj	1611 Jul 22 15:25	29°♊09'14	-4°55'42	evening set	1612 Jun 23 22:39	15°♊17'56	
minimum elong	1611 Jul 22 16:00	29°♊08'12	4°55'42	min. Earth dist.	1612 Jun 29 23:20	12°♊19'39	0.56560 AU
morning rise	1611 Jul 30 13:16	24°♊48'22		inferior conj	1612 Jul 02 13:23	10°♊42'45	-4°39'20
direct	1611 Aug 02 01:37	24°♊28'13		minimum elong	1612 Jul 02 08:42	10°♊50'06	4°38'45
morning max el	1611 Aug 10 09:06	28°♊24'47	18°43'33	morning rise	1612 Jul 10 21:27	6°♊41'31	
	1611 Aug 11 22:08	0°♎		direct	1612 Jul 13 13:35	6°♊22'34	
asc. node	1611 Aug 14 18:42	3°♎34'21		morning max el	1612 Jul 23 05:27	10°♊51'39	19°40'29
morning set	1611 Aug 26 18:11	24°♎32'52		asc. node	1612 Jul 31 15:43	21°♊49'40	
	1611 Aug 29 13:11	0°♐			1612 Aug 05 06:20	0°♎	
				morning set	1612 Aug 09 20:14	8°♎58'51	
superior conj	1611 Sep 04 09:58	11°♐17'54	1°40'07				
minimum elong	1611 Sep 04 12:14	11°♐28'37	1°39'59	superior conj	1612 Aug 17 18:41	24°♎57'27	1°45'54
max. Earth dist.	1611 Sep 11 12:41	24°♐18'13	1.39457 AU	minimum elong	1612 Aug 17 19:03	24°♎59'14	1°45'53
	1611 Sep 14 19:22	0°♑			1612 Aug 20 08:33	0°♐	
evening rise	1611 Sep 15 13:28	1°♑17'02		max. Earth dist.	1612 Aug 23 16:53	6°♐21'41	1.37438 AU
desc. node	1611 Sep 22 08:00	12°♑24'04		evening rise	1612 Aug 27 11:42	13°♐16'33	
	1611 Oct 04 00:40	0°♌			1612 Sep 06 09:17	0°♑	
evening max el	1611 Oct 20 18:56	20°♌56'35	24°08'10	desc. node	1612 Sep 08 05:01	2°♑52'33	
retrograde	1611 Oct 31 20:49	27°♌26'35			1612 Sep 27 23:26	0°♌	
evening set	1611 Nov 06 03:56	25°♌13'51		evening max el	1612 Oct 02 06:54	4°♌35'31	25°23'24
asc. node	1611 Nov 10 17:55	19°♌58'29		retrograde	1612 Oct 14 07:57	11°♌31'32	
min. Earth dist.	1611 Nov 10 22:10	19°♌44'11	0.67623 AU	evening set	1612 Oct 20 05:32	9°♌03'06	
inferior conj	1611 Nov 11 14:04	18°♌50'30	0°17'20	min. Earth dist.	1612 Oct 24 15:45	4°♌08'26	0.67109 AU
minimum elong	1611 Nov 11 13:39	18°♌51'55	0°17'09	inferior conj	1612 Oct 25 18:27	2°♌42'07	-0°38'19
morning rise	1611 Nov 16 23:22	12°♌45'31		minimum elong	1612 Oct 25 19:25	2°♌38'57	0°37'54
direct	1611 Nov 20 20:46	11°♌19'16		asc. node	1612 Oct 27 14:56	0°♌22'03	
morning max el	1611 Nov 28 20:06	15°♌55'02	20°30'40		1612 Oct 27 22:22	30°♋♑	
	1611 Dec 09 22:39	0°♊		morning rise	1612 Oct 31 09:31	26°♑44'52	
desc. node	1611 Dec 19 07:16	13°♊46'28		direct	1612 Nov 03 19:11	25°♑38'01	
morning set	1611 Dec 27 07:16	26°♊00'43		morning max el	1612 Nov 10 23:54	29°♑41'45	19°26'57
	1611 Dec 29 20:41	0°♋			1612 Nov 11 07:04	0°♌	
max. Earth dist.	1612 Jan 05 19:37	11°♋02'50	1.43326 AU	greatest brilliancy	1612 Nov 24 14:35	18°♌00'25	-0.7m
					1612 Dec 02 10:37	0°♊	
superior conj	1612 Jan 12 04:00	21°♋26'43	-2°00'04	morning set	1612 Dec 05 06:10	4°♊21'21	
minimum elong	1612 Jan 12 00:10	21°♋10'48	1°59'54	desc. node	1612 Dec 05 04:18	4°♊14'06	
	1612 Jan 17 05:42	0°♌		max. Earth dist.	1612 Dec 18 09:31	24°♊54'00	1.44561 AU
evening rise	1612 Jan 24 11:37	12°♌35'07			1612 Dec 21 14:32	0°♋	
	1612 Feb 03 15:14	0°♋					
asc. node	1612 Feb 06 17:14	4°♋39'09		superior conj	1612 Dec 22 00:37	0°♋40'16	-1°37'57
evening max el	1612 Feb 10 19:17	9°♋37'41	18°08'15	minimum elong	1612 Dec 21 16:17	0°♋06'59	1°37'13
retrograde	1612 Feb 17 07:22	13°♋01'34		evening rise	1613 Jan 05 04:55	23°♋51'21	
evening set	1612 Feb 20 02:29	12°♋23'04			1613 Jan 08 21:06	0°♌	
inferior conj	1612 Feb 26 10:32	7°♋14'35	3°42'53	asc. node	1613 Jan 23 14:15	22°♌12'07	
minimum elong	1612 Feb 26 11:17	7°♋12'39	3°42'52	evening max el	1613 Jan 24 07:44	22°♌58'14	18°23'16
min. Earth dist.	1612 Feb 29 07:57	4°♋16'59	0.62212 AU	retrograde	1613 Jan 30 19:45	26°♌30'38	
morning rise	1612 Mar 03 18:51	1°♋16'40		evening set	1613 Feb 02 19:57	25°♌41'16	
	1612 Mar 05 19:52	30°♋♌		inferior conj	1613 Feb 08 18:21	20°♌13'30	3°42'16
direct	1612 Mar 10 17:17	28°♌44'32		minimum elong	1613 Feb 08 17:21	20°♌16'24	3°42'11
	1612 Mar 15 22:08	0°♋		min. Earth dist.	1613 Feb 11 00:46	17°♌37'48	0.64077 AU
desc. node	1612 Mar 16 06:28	0°♋09'55		morning rise	1613 Feb 14 14:07	14°♌07'21	
morning max el	1612 Mar 24 18:32	6°♋39'00	27°49'18	direct	1613 Feb 21 11:29	11°♌18'35	
	1612 Apr 11 12:00	0°♐		desc. node	1613 Mar 03 03:29	15°♌34'47	
morning set	1612 Apr 27 08:09	28°♐41'16		morning max el	1613 Mar 07 03:13	19°♌10'59	27°31'36
	1612 Apr 27 23:35	0°♋			1613 Mar 16 08:06	0°♋	
max. Earth dist.	1612 May 03 00:32	10°♋36'41	1.32572 AU		1613 Apr 04 10:38	0°♐	
				morning set	1613 Apr 11 03:19	12°♐39'01	
superior conj	1612 May 04 19:33	14°♋29'30	0°01'21	max. Earth dist.	1613 Apr 16 02:46	22°♐45'49	1.33330 AU
minimum elong	1612 May 04 19:29	14°♋29'09	0°01'20				
behind sun begin	1612 May 04 14:21	14°♋01'14		superior conj	1613 Apr 19 01:41	28°♐59'59	-0°26'01
behind sun end	1612 May 05 00:38	14°♋57'06		minimum elong	1613 Apr 19 02:58	29°♐06'51	0°25'44
asc. node	1612 May 04 16:30	14°♋12'58			1613 Apr 19 12:56	0°♋	
evening rise	1612 May 11 18:15	29°♋31'57		asc. node	1613 Apr 21 13:33	4°♋20'30	

evening rise	1613 Apr 26 05:46	14°♄19'47		evening rise	1614 Apr 10 15:10	28°♄55'33	
	1613 May 04 04:05	0°♄			1614 Apr 11 03:37	0°♄	
evening max el	1613 May 18 03:10	19°♄36'12	22°36'49		1614 Apr 29 15:57	0°♄	
desc. node	1613 May 30 02:42	26°♄04'32		evening max el	1614 Apr 30 01:19	0°♄23'04	21°07'10
retrograde	1613 May 31 06:39	26°♄07'37		retrograde	1614 May 11 20:31	6°♄08'02	
evening set	1613 Jun 03 10:17	25°♄45'46		evening set	1614 May 14 02:13	5°♄56'21	
min. Earth dist.	1613 Jun 11 10:58	22°♄15'48	0.55314 AU	desc. node	1614 May 16 23:44	5°♄09'23	
inferior conj	1613 Jun 12 16:54	21°♄33'10	-3°36'33	inferior conj	1614 May 23 10:56	1°♄57'40	-1°51'35
minimum elong	1613 Jun 12 09:07	21°♄44'17	3°34'31	minimum elong	1614 May 23 05:44	2°♄05'01	1°49'45
morning rise	1613 Jun 21 10:11	17°♄41'08		min. Earth dist.	1614 May 23 23:25	1°♄40'04	0.54924 AU
direct	1613 Jun 24 07:38	17°♄21'53			1614 May 27 01:04	30°♄	
morning max el	1613 Jul 05 14:38	22°♄36'25	20°58'05	morning rise	1614 Jun 01 09:19	27°♄56'02	
	1613 Jul 11 22:24	0°♄		direct	1614 Jun 04 17:15	27°♄32'02	
asc. node	1613 Jul 18 12:46	10°♄42'58			1614 Jun 12 19:35	0°♄	
morning set	1613 Jul 25 03:28	23°♄40'54		morning max el	1614 Jun 17 13:15	3°♄39'10	22°32'23
	1613 Jul 28 04:27	0°♄		asc. node	1614 Jul 05 09:50	0°♄04'37	
					1614 Jul 05 08:54	0°♄	
superior conj	1613 Aug 01 14:25	9°♄10'30	1°43'37	morning set	1614 Jul 09 13:52	8°♄33'05	
minimum elong	1613 Aug 01 13:17	9°♄04'43	1°43'35				
max. Earth dist.	1613 Aug 06 01:43	18°♄11'41	1.35636 AU	superior conj	1614 Jul 16 17:42	23°♄46'33	1°34'55
evening rise	1613 Aug 10 05:35	26°♄12'36		minimum elong	1614 Jul 16 15:39	23°♄35'41	1°34'44
	1613 Aug 12 06:39	0°♄			1614 Jul 19 16:53	0°♄	
desc. node	1613 Aug 26 02:02	23°♄04'32		max. Earth dist.	1614 Jul 19 19:17	0°♄12'25	1.34187 AU
	1613 Aug 30 19:19	0°♄		evening rise	1614 Jul 24 14:27	9°♄53'05	
evening max el	1613 Sep 14 18:48	18°♄13'14	26°26'23		1614 Aug 04 16:56	0°♄	
retrograde	1613 Sep 27 14:10	25°♄25'27		desc. node	1614 Aug 12 23:03	12°♄52'52	
evening set	1613 Oct 04 01:30	22°♄45'21			1614 Aug 26 13:36	0°♄	
min. Earth dist.	1613 Oct 08 04:15	18°♄27'08	0.66249 AU	evening max el	1614 Aug 28 06:52	1°♄42'33	27°09'33
inferior conj	1613 Oct 09 18:32	16°♄30'56	-1°36'02	retrograde	1614 Sep 10 15:05	9°♄01'13	
minimum elong	1613 Oct 09 21:04	16°♄23'14	1°35'00	evening set	1614 Sep 17 13:29	6°♄16'57	
asc. node	1613 Oct 14 11:58	11°♄32'53		min. Earth dist.	1614 Sep 21 09:32	2°♄34'57	0.65035 AU
morning rise	1613 Oct 15 17:08	10°♄44'12		inferior conj	1614 Sep 23 12:12	0°♄13'20	-2°33'49
direct	1613 Oct 18 17:11	9°♄53'14		minimum elong	1614 Sep 23 16:15	0°♄02'02	2°32'21
morning max el	1613 Oct 25 10:21	13°♄35'28	18°38'39		1614 Sep 23 16:58	30°♄	
	1613 Nov 06 08:54	0°♄		morning rise	1614 Sep 29 19:52	24°♄40'05	
morning set	1613 Nov 15 02:29	13°♄50'19		asc. node	1614 Oct 01 09:02	24°♄08'17	
desc. node	1613 Nov 22 01:20	24°♄51'45		direct	1614 Oct 02 12:42	24°♄01'08	
	1613 Nov 25 07:32	0°♄		morning max el	1614 Oct 09 01:03	27°♄31'07	18°06'54
					1614 Oct 11 06:12	0°♄	
superior conj	1613 Dec 01 03:31	9°♄10'01	-0°58'10	morning set	1614 Oct 27 03:58	24°♄46'07	
minimum elong	1613 Nov 30 20:18	8°♄41'39	0°57'17		1614 Oct 30 07:50	0°♄	
max. Earth dist.	1613 Dec 01 03:25	9°♄09'37	1.45104 AU	desc. node	1614 Nov 08 22:22	15°♄35'59	
	1613 Dec 14 08:18	0°♄					
evening rise	1613 Dec 16 22:56	4°♄09'28		superior conj	1614 Nov 10 08:53	17°♄53'40	-0°09'38
greatest brilliancy	1613 Dec 25 02:05	17°♄07'41	-0.8m	minimum elong	1614 Nov 10 07:41	17°♄48'51	0°09'28
	1614 Jan 02 13:45	0°♄		behind sun begin	1614 Nov 09 22:50	17°♄13'36	
evening max el	1614 Jan 07 18:11	6°♄24'29	18°56'13	behind sun end	1614 Nov 10 16:32	18°♄24'04	
asc. node	1614 Jan 10 11:17	8°♄46'03		max. Earth dist.	1614 Nov 13 22:13	23°♄31'32	1.44910 AU
retrograde	1614 Jan 14 14:07	10°♄16'15			1614 Nov 18 01:11	0°♄	
evening set	1614 Jan 17 20:18	9°♄15'00		evening rise	1614 Nov 26 19:10	13°♄36'35	
inferior conj	1614 Jan 23 12:02	3°♄30'17	3°26'00		1614 Dec 07 10:55	0°♄	
minimum elong	1614 Jan 23 09:54	3°♄36'57	3°25'38	greatest brilliancy	1614 Dec 09 23:09	3°♄47'03	-0.7m
min. Earth dist.	1614 Jan 25 03:05	1°♄28'34	0.65584 AU	evening max el	1614 Dec 22 00:43	19°♄53'49	19°45'36
	1614 Jan 26 08:43	30°♄		asc. node	1614 Dec 28 08:19	24°♄06'36	
morning rise	1614 Jan 28 23:10	27°♄19'28		retrograde	1614 Dec 29 11:26	24°♄13'41	
direct	1614 Feb 04 12:31	24°♄28'17		evening set	1615 Jan 02 01:05	22°♄59'10	
	1614 Feb 15 07:25	0°♄		inferior conj	1615 Jan 07 12:33	17°♄00'06	2°58'06
morning max el	1614 Feb 17 13:09	2°♄08'07	26°42'21	minimum elong	1615 Jan 07 09:55	17°♄08'47	2°57'26
desc. node	1614 Feb 18 00:32	2°♄37'03		min. Earth dist.	1615 Jan 08 13:23	15°♄37'57	0.66695 AU
	1614 Mar 10 12:15	0°♄		morning rise	1615 Jan 12 18:32	10°♄47'08	
morning set	1614 Mar 25 11:33	25°♄59'53		direct	1615 Jan 18 19:34	8°♄05'36	
	1614 Mar 27 13:28	0°♄		morning max el	1615 Jan 30 22:12	15°♄18'21	25°30'03
max. Earth dist.	1614 Mar 29 18:20	4°♄20'30	1.34534 AU	desc. node	1615 Feb 04 21:36	20°♄49'02	
					1615 Feb 12 00:35	0°♄	
superior conj	1614 Apr 03 02:01	13°♄07'58	-0°53'46		1615 Mar 02 08:54	0°♄	
minimum elong	1614 Apr 03 04:42	13°♄21'54	0°53'14	morning set	1615 Mar 08 04:20	8°♄30'49	
asc. node	1614 Apr 08 10:35	24°♄20'56		max. Earth dist.	1615 Mar 11 21:59	15°♄26'13	1.36191 AU

superior conj	1615 Mar 17 17:54	26° H 46'18	-1°20'15	max. Earth dist.	1616 Feb 21 17:55	26° \approx 31'27	1.38202 AU
minimum elong	1615 Mar 17 21:43	27° H 05'26	1°19'40		1616 Feb 23 16:09	0° H	
	1615 Mar 19 08:31	0° Y					
evening rise	1615 Mar 25 20:25	13° Y 13'17		superior conj	1616 Feb 28 21:47	9° H 45'39	-1°43'12
asc. node	1615 Mar 26 07:38	14° Y 10'05		minimum elong	1616 Feb 29 01:58	10° H 05'36	1°42'47
	1615 Apr 03 16:54	0° B		evening rise	1616 Mar 08 18:59	27° H 06'02	
evening max el	1615 Apr 12 11:02	11° B 46'38	19°52'57		1616 Mar 10 06:31	0° Y	
retrograde	1615 Apr 22 12:34	16° B 37'49		asc. node	1616 Mar 12 04:42	3° Y 43'01	
evening set	1615 Apr 24 13:26	16° B 26'47		evening max el	1616 Mar 25 07:49	23° Y 49'34	18°57'57
inferior conj	1615 May 03 09:48	12° B 26'10	0°07'57	retrograde	1616 Apr 02 19:14	27° Y 56'08	
minimum elong	1615 May 03 10:09	12° B 25'37	0°07'48	evening set	1616 Apr 05 00:14	27° Y 40'33	
transit middle	1615 May 03 10:09	12° B 25'37	0°07'48	inferior conj	1616 Apr 13 01:29	23° Y 24'51	1°49'28
transit begin	1615 May 03 06:42	12° B 30'55		minimum elong	1616 Apr 13 05:14	23° Y 18'14	1°48'19
transit end	1615 May 03 13:37	12° B 20'19		min. Earth dist.	1616 Apr 16 05:09	21° Y 12'16	0.56922 AU
desc. node	1615 May 03 20:48	12° B 09'18		desc. node	1616 Apr 19 17:50	19° Y 04'55	
min. Earth dist.	1615 May 05 13:19	11° B 07'32	0.55504 AU	morning rise	1616 Apr 21 07:10	18° Y 22'05	
morning rise	1615 May 12 04:37	7° B 57'15		direct	1616 Apr 26 12:39	17° Y 17'05	
direct	1615 May 16 08:31	7° B 18'58		morning max el	1616 May 10 19:38	24° Y 41'25	25°49'32
morning max el	1615 May 30 04:54	14° B 12'13	24°14'13		1616 May 15 16:50	0° B	
	1615 Jun 11 13:02	0° II			1616 Jun 03 10:23	0° II	
asc. node	1615 Jun 22 06:54	19° II 46'50		morning set	1616 Jun 07 13:14	8° II 25'38	
morning set	1615 Jun 24 01:39	23° II 29'41		asc. node	1616 Jun 08 03:57	9° II 43'34	
	1615 Jun 27 02:38	0° E					
superior conj	1615 Jul 01 01:51	8° E 36'42	1°20'58	superior conj	1616 Jun 14 12:46	23° II 34'05	1°02'46
minimum elong	1615 Jun 30 23:26	8° E 23'37	1°20'38	minimum elong	1616 Jun 14 10:30	23° II 21'36	1°02'21
max. Earth dist.	1615 Jul 02 21:59	12° E 34'43	1.33141 AU	max. Earth dist.	1616 Jun 15 07:23	25° II 16'06	1.32491 AU
evening rise	1615 Jul 08 10:12	24° E 05'47			1616 Jun 17 11:30	0° E	
	1615 Jul 11 09:38	0° O		evening rise	1616 Jun 21 13:32	8° E 40'36	
	1615 Jul 29 07:24	0° P			1616 Jul 02 18:52	0° O	
desc. node	1615 Jul 30 20:05	2° P 07'02		desc. node	1616 Jul 16 17:07	20° O 32'49	
evening max el	1615 Aug 10 17:42	14° P 51'24	27°25'58	evening max el	1616 Jul 23 00:47	27° O 26'39	27°10'32
retrograde	1615 Aug 24 09:48	22° P 09'25			1616 Jul 25 23:02	0° P	
evening set	1615 Aug 31 14:21	19° P 31'42		retrograde	1616 Aug 05 21:29	4° P 41'20	
min. Earth dist.	1615 Sep 04 05:33	16° P 22'31	0.63475 AU	evening set	1616 Aug 13 00:08	2° P 22'58	
inferior conj	1615 Sep 06 20:51	13° P 42'54	-3°28'45		1616 Aug 16 04:35	30° R 0	
minimum elong	1615 Sep 07 01:56	13° P 30'03	3°27'14	min. Earth dist.	1616 Aug 16 15:00	29° O 37'54	0.61614 AU
morning rise	1615 Sep 13 14:43	8° P 26'23		inferior conj	1616 Aug 19 17:19	26° O 52'14	-4°16'07
direct	1615 Sep 16 02:59	7° P 55'55		minimum elong	1616 Aug 19 22:20	26° O 41'00	4°15'04
asc. node	1615 Sep 18 06:07	8° P 18'16		morning rise	1616 Aug 26 22:06	21° O 55'52	
morning max el	1615 Sep 22 17:10	11° P 21'39	17°52'34	direct	1616 Aug 29 08:32	21° O 30'57	
	1615 Oct 05 07:20	0° A		asc. node	1616 Sep 04 03:10	23° O 56'03	
morning set	1615 Oct 09 07:01	6° A 55'42		morning max el	1616 Sep 05 07:46	25° O 00'32	17°56'42
					1616 Sep 09 11:04	0° P	
superior conj	1615 Oct 21 11:12	27° A 40'29	0°35'37	morning set	1616 Sep 21 05:24	20° P 00'53	
minimum elong	1615 Oct 21 14:44	27° A 55'08	0°35'08		1616 Sep 26 17:22	0° A	
	1615 Oct 22 21:05	0° M		superior conj	1616 Oct 01 16:48	8° A 47'59	1°10'09
desc. node	1615 Oct 26 19:23	6° M 22'56		minimum elong	1616 Oct 01 21:25	9° A 08'04	1°09'37
max. Earth dist.	1615 Oct 27 15:11	7° M 42'24	1.44014 AU	max. Earth dist.	1616 Oct 09 04:08	21° A 26'42	1.42527 AU
evening rise	1615 Nov 06 03:33	22° M 38'46		desc. node	1616 Oct 12 16:24	27° A 09'39	
	1615 Nov 10 22:55	0° X			1616 Oct 14 11:00	0° M	
	1615 Dec 02 01:08	0° B		evening rise	1616 Oct 15 17:03	1° M 59'01	
evening max el	1615 Dec 05 01:57	3° B 23'53	20°49'00		1616 Nov 03 11:06	0° X	
retrograde	1615 Dec 13 09:11	8° B 18'33		evening max el	1616 Nov 16 21:32	16° X 54'42	22°02'51
asc. node	1615 Dec 15 05:23	7° B 59'33		retrograde	1616 Nov 26 05:37	22° X 27'57	
evening set	1615 Dec 17 08:12	6° B 49'01		evening set	1616 Nov 30 15:53	20° X 41'56	
inferior conj	1615 Dec 22 17:19	0° B 38'34	2°21'14	asc. node	1616 Dec 01 02:26	20° X 19'33	
minimum elong	1615 Dec 22 14:45	0° B 47'20	2°20'25	inferior conj	1616 Dec 06 00:16	14° X 23'19	1°37'19
min. Earth dist.	1615 Dec 23 05:27	29° X 57'01	0.67411 AU	minimum elong	1616 Dec 05 22:15	14° X 30'21	1°36'34
	1615 Dec 23 04:35	30° R 0		min. Earth dist.	1616 Dec 06 00:58	14° X 20'56	0.67759 AU
morning rise	1615 Dec 27 21:07	24° X 25'25		morning rise	1616 Dec 11 04:28	8° X 11'48	
direct	1616 Jan 02 07:34	22° X 01'54		direct	1616 Dec 15 23:47	6° X 10'32	
morning max el	1616 Jan 13 06:28	28° X 33'51	24°04'50	morning max el	1616 Dec 25 16:46	11° X 55'01	22°36'34
	1616 Jan 14 15:33	0° B		desc. node	1617 Jan 08 15:39	29° X 26'02	
desc. node	1616 Jan 22 18:38	9° B 50'03			1617 Jan 09 01:16	0° B	
	1616 Feb 05 18:58	0° \approx		morning set	1617 Jan 28 15:46	29° B 58'14	
morning set	1616 Feb 17 23:46	19° \approx 55'23			1617 Jan 28 16:12	0° \approx	

max. Earth dist.	1617 Feb 02 14:08	8° \approx 12'36	1.40350 AU	morning set	1618 Jan 08 03:24	8° \approx 42'08	
				max. Earth dist.	1618 Jan 15 16:09	20° \approx 47'14	1.42345 AU
superior conj	1617 Feb 10 09:06	21° \approx 53'37	-1°59'21		1618 Jan 21 04:49	0° \approx	
minimum elong	1617 Feb 10 12:02	22° \approx 06'51	1°59'13				
	1617 Feb 14 18:56	0° \approx		superior conj	1618 Jan 22 22:34	2° \approx 58'01	-2°04'17
evening rise	1617 Feb 20 07:45	10° \approx 25'26		minimum elong	1618 Jan 22 21:49	2° \approx 54'46	2°04'16
asc. node	1617 Feb 27 01:45	22° \approx 53'11		evening rise	1618 Feb 03 06:59	23° \approx 03'12	
	1617 Mar 03 09:55	0° \approx			1618 Feb 07 03:30	0° \approx	
evening max el	1617 Mar 08 12:55	6° \approx 24'32	18°23'03	asc. node	1618 Feb 13 22:47	11° \approx 33'20	
retrograde	1617 Mar 15 21:06	10° \approx 02'30		evening max el	1618 Feb 19 23:13	19° \approx 23'20	18°08'05
evening set	1617 Mar 18 07:52	9° \approx 39'22		retrograde	1618 Feb 26 15:47	22° \approx 48'30	
inferior conj	1617 Mar 25 14:23	5° \approx 03'24	2°57'51	evening set	1618 Mar 01 07:51	22° \approx 16'05	
minimum elong	1617 Mar 25 18:07	4° \approx 55'41	2°57'04	inferior conj	1618 Mar 07 23:01	17° \approx 19'21	3°34'02
min. Earth dist.	1617 Mar 29 00:54	2° \approx 14'08	0.58874 AU	minimum elong	1618 Mar 08 00:58	17° \approx 14'42	3°33'50
	1617 Apr 01 05:40	30° \approx 8'8		min. Earth dist.	1618 Mar 11 03:31	14° \approx 17'36	0.61010 AU
morning rise	1617 Apr 02 01:43	29° \approx 31'34		morning rise	1618 Mar 14 16:18	11° \approx 28'14	
desc. node	1617 Apr 06 14:52	27° \approx 57'47		direct	1618 Mar 21 10:57	9° \approx 12'00	
direct	1617 Apr 08 06:01	27° \approx 50'44		desc. node	1618 Mar 24 11:52	9° \approx 37'32	
	1617 Apr 15 12:29	0° \approx		morning max el	1618 Apr 04 16:17	17° \approx 05'07	27°43'07
morning max el	1617 Apr 22 14:47	5° \approx 33'39	27°02'57		1618 Apr 15 09:10	0° \approx	
	1617 May 10 16:33	0° \approx			1618 May 03 07:03	0° \approx	
morning set	1617 May 22 22:50	23° \approx 14'03		morning set	1618 May 07 04:40	7° \approx 48'52	
asc. node	1617 May 26 01:00	29° \approx 48'48		asc. node	1618 May 12 22:02	19° \approx 58'14	
	1617 May 26 03:04	0° \approx		max. Earth dist.	1618 May 13 07:06	20° \approx 47'33	1.32327 AU
superior conj	1617 May 30 00:33	8° \approx 31'18	0°41'02	superior conj	1618 May 14 11:32	23° \approx 22'53	0°16'28
minimum elong	1617 May 29 22:51	8° \approx 21'58	0°40'40	minimum elong	1618 May 14 10:47	23° \approx 18'47	0°16'18
max. Earth dist.	1617 May 29 19:43	8° \approx 04'43	1.32219 AU		1618 May 17 12:03	0° \approx	
evening rise	1617 Jun 05 21:45	23° \approx 27'43		evening rise	1618 May 21 08:43	8° \approx 20'05	
	1617 Jun 09 01:52	0° \approx			1618 Jun 01 14:45	0° \approx	
	1617 Jun 26 23:05	0° \approx		evening max el	1618 Jun 16 18:48	20° \approx 19'54	25°05'22
desc. node	1617 Jul 03 14:08	7° \approx 49'08		desc. node	1618 Jun 20 11:09	23° \approx 28'04	
evening max el	1617 Jul 05 01:20	9° \approx 16'11	26°22'04	retrograde	1618 Jun 30 18:42	27° \approx 26'45	
retrograde	1617 Jul 19 00:59	16° \approx 28'12		evening set	1618 Jul 06 04:44	26° \approx 19'14	
evening set	1617 Jul 25 14:08	14° \approx 41'41		min. Earth dist.	1618 Jul 11 06:26	23° \approx 33'20	0.57559 AU
min. Earth dist.	1617 Jul 29 14:19	12° \approx 05'34	0.59563 AU	inferior conj	1618 Jul 14 07:36	21° \approx 30'00	-4°53'50
inferior conj	1617 Aug 01 21:59	9° \approx 30'59	-4°48'20	minimum elong	1618 Jul 14 06:00	21° \approx 32'43	4°53'47
minimum elong	1617 Aug 02 00:54	9° \approx 25'16	4°48'05	morning rise	1618 Jul 22 09:56	17° \approx 18'36	
morning rise	1617 Aug 09 13:46	4° \approx 57'24		direct	1618 Jul 24 23:37	16° \approx 59'13	
direct	1617 Aug 12 00:50	4° \approx 35'57		morning max el	1618 Aug 02 19:54	21° \approx 07'49	19°05'11
morning max el	1617 Aug 19 17:42	8° \approx 18'59	18°20'33	asc. node	1618 Aug 08 21:13	28° \approx 34'54	
asc. node	1617 Aug 22 00:11	10° \approx 46'34			1618 Aug 09 19:24	0° \approx	
	1617 Sep 02 18:02	0° \approx		morning set	1618 Aug 19 15:29	17° \approx 59'04	
morning set	1617 Sep 04 17:36	3° \approx 45'47			1618 Aug 25 17:10	0° \approx	
superior conj	1617 Sep 13 22:39	21° \approx 07'23	1°32'25	superior conj	1618 Aug 27 23:05	4° \approx 22'07	1°43'39
minimum elong	1617 Sep 14 02:02	21° \approx 22'50	1°32'08	minimum elong	1618 Aug 28 00:31	4° \approx 29'00	1°43'36
	1617 Sep 18 21:20	0° \approx		max. Earth dist.	1618 Sep 03 14:58	16° \approx 49'02	1.38580 AU
max. Earth dist.	1617 Sep 21 11:31	4° \approx 29'50	1.40630 AU	evening rise	1618 Sep 07 10:46	23° \approx 35'21	
evening rise	1617 Sep 26 01:47	12° \approx 13'15			1618 Sep 11 05:15	0° \approx	
desc. node	1617 Sep 29 13:26	17° \approx 52'45		desc. node	1618 Sep 16 10:27	8° \approx 27'56	
	1617 Oct 07 09:06	0° \approx			1618 Oct 01 04:09	0° \approx	
	1617 Oct 30 01:28	0° \approx		evening max el	1618 Oct 13 00:42	14° \approx 04'21	24°41'13
evening max el	1617 Oct 30 12:24	0° \approx 27'43	23°22'19	retrograde	1618 Oct 24 13:14	20° \approx 47'29	
retrograde	1617 Nov 09 23:19	6° \approx 39'04		evening set	1618 Oct 30 02:26	18° \approx 27'40	
evening set	1617 Nov 14 22:30	4° \approx 35'48		min. Earth dist.	1618 Nov 03 17:05	13° \approx 12'36	0.67438 AU
asc. node	1617 Nov 17 23:26	1° \approx 20'35		inferior conj	1618 Nov 04 13:34	12° \approx 04'31	-0°05'56
	1617 Nov 19 00:09	30° \approx 8'18		minimum elong	1618 Nov 04 13:43	12° \approx 04'02	0°05'53
inferior conj	1617 Nov 20 07:36	28° \approx 12'50	0°47'51	transit middle	1618 Nov 04 13:43	12° \approx 04'02	0°05'53
minimum elong	1617 Nov 20 06:30	28° \approx 16'37	0°47'23	transit begin	1618 Nov 04 11:09	12° \approx 12'34	
min. Earth dist.	1617 Nov 19 21:38	28° \approx 47'02	0.67763 AU	transit end	1618 Nov 04 16:16	11° \approx 55'30	
morning rise	1617 Nov 25 14:27	22° \approx 04'52		asc. node	1618 Nov 04 20:27	11° \approx 41'37	
direct	1617 Nov 29 19:20	20° \approx 26'28		morning rise	1618 Nov 10 01:05	6° \approx 02'26	
morning max el	1617 Dec 08 08:35	25° \approx 12'57	21°13'38	direct	1618 Nov 13 17:08	4° \approx 45'00	
	1617 Dec 12 10:28	0° \approx		morning max el	1618 Nov 21 07:55	9° \approx 06'18	20°01'46
	1617 Dec 26 12:40	19° \approx 27'25			1618 Dec 06 22:27	0° \approx	
desc. node	1618 Jan 02 12:47	0° \approx		desc. node	1618 Dec 13 09:41	9° \approx 46'49	

morning set	1618 Dec 17 23:33	16°  48'52		morning rise	1619 Oct 25 10:27	20°  02'36	
	1618 Dec 26 10:04	0° 		direct	1619 Oct 28 15:44	19°  02'56	
max. Earth dist.	1618 Dec 29 01:29	4°  11'59	1.43922 AU	morning max el	1619 Nov 04 14:43	22°  56'33	19°04'20
					1619 Nov 10 09:33	0° 	
superior conj	1619 Jan 03 09:56	12°  50'15	-1°53'03	morning set	1619 Nov 27 05:30	25°  13'01	
minimum elong	1619 Jan 03 03:50	12°  25'21	1°52'40	desc. node	1619 Nov 30 06:45	0°  19'19	
	1619 Jan 13 16:32	0° 			1619 Nov 30 01:48	0° 	
evening rise	1619 Jan 16 12:19	4°  50'20		max. Earth dist.	1619 Dec 11 17:11	18°  14'51	1.44887 AU
asc. node	1619 Jan 31 19:48	29°  33'42					
	1619 Feb 01 04:06	0° 		superior conj	1619 Dec 13 21:14	21°  40'07	-1°22'53
evening max el	1619 Feb 03 11:40	2°  37'29	18°12'26	minimum elong	1619 Dec 13 12:30	21°  05'36	1°21'58
retrograde	1619 Feb 09 22:48	6°  03'38			1619 Dec 19 03:05	0° 	
evening set	1619 Feb 12 19:56	5°  20'46		evening rise	1619 Dec 28 19:51	15°  34'21	
inferior conj	1619 Feb 18 23:30	0°  04'08	3°44'50		1620 Jan 06 14:11	0° 	
minimum elong	1619 Feb 18 23:27	0°  04'18	3°44'50	evening max el	1620 Jan 17 23:37	16°  01'07	18°35'14
	1619 Feb 19 01:02	30° 		asc. node	1620 Jan 18 16:49	16°  43'09	
min. Earth dist.	1619 Feb 21 14:55	27°  13'28	0.63041 AU	retrograde	1620 Jan 24 13:59	19°  40'09	
morning rise	1619 Feb 25 01:58	24°  02'01		evening set	1620 Jan 27 16:39	18°  45'50	
direct	1619 Mar 04 01:02	21°  20'37		inferior conj	1620 Feb 02 11:55	13°  10'48	3°36'57
desc. node	1619 Mar 11 08:53	23°  49'27		minimum elong	1620 Feb 02 10:21	13°  15'29	3°36'46
morning max el	1619 Mar 17 22:54	29°  16'07	27°46'00	min. Earth dist.	1620 Feb 04 11:47	10°  48'25	0.64774 AU
	1619 Mar 18 16:13	0° 		morning rise	1620 Feb 08 03:34	7°  02'31	
	1619 Apr 09 06:40	0° 		direct	1620 Feb 14 22:24	4°  10'50	
morning set	1619 Apr 21 04:29	22°  02'22		desc. node	1620 Feb 26 05:56	9°  59'10	
	1619 Apr 25 01:25	0° 		morning max el	1620 Feb 28 08:10	11°  59'05	27°13'58
max. Earth dist.	1619 Apr 26 13:35	3°  11'07	1.32833 AU		1620 Mar 13 17:38	0° 	
					1620 Mar 31 19:05	0° 	
superior conj	1619 Apr 28 20:00	8°  02'45	-0°10'09	morning set	1620 Apr 03 19:27	5°  45'16	
minimum elong	1619 Apr 28 20:29	8°  05'24	0°10'02	max. Earth dist.	1620 Apr 08 11:23	15°  04'29	1.33782 AU
behind sun begin	1619 Apr 28 16:23	7°  43'17					
behind sun end	1619 Apr 29 00:35	8°  27'31		superior conj	1620 Apr 11 23:58	22°  24'24	-0°37'50
asc. node	1619 Apr 29 19:06	10°  07'34		minimum elong	1620 Apr 12 01:51	22°  34'22	0°37'26
evening rise	1619 May 05 20:32	23°  11'09		asc. node	1620 Apr 15 16:09	0°  12'25	
	1619 May 09 03:29	0° 			1620 Apr 15 13:49	0° 	
	1619 May 28 10:46	0° 		evening rise	1620 Apr 19 07:24	7°  54'21	
evening max el	1619 May 29 08:48	0°  54'47	23°32'12		1620 May 01 02:20	0° 	
desc. node	1619 Jun 07 08:10	6°  54'48		evening max el	1620 May 10 02:06	11°  28'55	21°57'21
retrograde	1619 Jun 12 00:14	7°  44'20		retrograde	1620 May 22 17:25	17°  41'49	
evening set	1619 Jun 15 22:37	7°  10'22		desc. node	1620 May 24 05:11	17°  36'48	
min. Earth dist.	1619 Jun 22 19:08	3°  59'52	0.55936 AU	evening set	1620 May 25 09:39	17°  25'52	
inferior conj	1619 Jun 24 21:15	2°  45'03	-4°18'45	inferior conj	1620 Jun 03 19:14	13°  21'25	-2°56'03
minimum elong	1619 Jun 24 14:41	2°  54'53	4°17'31	minimum elong	1620 Jun 03 11:50	13°  31'47	2°53'47
	1619 Jun 29 22:34	30° 		min. Earth dist.	1620 Jun 03 06:58	13°  38'35	0.55030 AU
morning rise	1619 Jul 03 09:24	28°  14'49'14		morning rise	1620 Jun 12 15:24	9°  27'39	
direct	1619 Jul 06 03:18	28°  13'03'31		direct	1620 Jun 15 16:36	9°  07'00	
	1619 Jul 11 22:22	0° 		morning max el	1620 Jun 27 16:01	14°  43'51	21°36'32
morning max el	1619 Jul 16 11:43	3°  18'11	20°11'03		1620 Jul 09 03:57	0° 	
asc. node	1619 Jul 26 18:17	17°  08'08		asc. node	1620 Jul 12 15:22	6°  14'41	
	1619 Aug 02 13:47	0° 		morning set	1620 Jul 18 04:55	17°  02'25	
morning set	1619 Aug 03 20:03	2°  13'04			1620 Jul 24 05:27	0° 	
superior conj	1619 Aug 11 13:02	18°  17'52	1°45'48	superior conj	1620 Jul 25 12:21	2°  41'47	1°40'39
minimum elong	1619 Aug 11 12:42	18°  16'11	1°45'48	minimum elong	1620 Jul 25 10:46	2°  33'31	1°40'32
max. Earth dist.	1619 Aug 16 20:17	28°  14'31'11	1.36636 AU	max. Earth dist.	1620 Jul 29 08:54	10°  37'06	1.34978 AU
	1619 Aug 17 12:25	0° 		evening rise	1620 Aug 02 18:54	19°  18'15	
evening rise	1619 Aug 20 18:03	6°  01'25			1620 Aug 08 14:20	0° 	
desc. node	1619 Sep 03 07:30	28°  15'03'33		desc. node	1620 Aug 20 04:32	18°  15'38	
	1619 Sep 04 01:33	0° 			1620 Aug 28 03:05	0° 	
evening max el	1619 Sep 25 12:41	27°  44'18	25°52'12	evening max el	1620 Sep 07 01:00	11°  20'34	26°47'35
	1619 Sep 28 00:04	0° 		retrograde	1620 Sep 20 02:19	18°  35'40	
retrograde	1619 Oct 07 22:28	4°  14'48'41		evening set	1620 Sep 26 18:48	15°  53'01	
evening set	1619 Oct 14 01:55	2°  14'54		min. Earth dist.	1620 Sep 30 18:43	11°  50'12	0.65784 AU
	1619 Oct 16 08:27	30° 		inferior conj	1620 Oct 02 14:04	9°  42'52	-2°00'40
min. Earth dist.	1619 Oct 18 08:58	27°  35'19	0.66784 AU	minimum elong	1620 Oct 02 17:16	9°  33'28	1°59'25
inferior conj	1619 Oct 19 16:24	25°  56'02	-1°02'38	morning rise	1620 Oct 08 16:20	4°  01'16	
minimum elong	1619 Oct 19 18:02	25°  50'54	1°01'57	asc. node	1620 Oct 08 14:32	4°  03'40	
asc. node	1619 Oct 22 17:28	22°  19'45		direct	1620 Oct 11 13:08	3°  15'42	

morning max el	1620 Oct 18 03:15	6°♄51'25	18°23'00	direct	1621 Sep 25 06:48	17°♎18'50	
	1620 Nov 03 02:19	0°♎		asc. node	1621 Sep 25 11:37	17°♎19'02	
morning set	1620 Nov 06 14:15	5°♎39'36		morning max el	1621 Oct 01 18:56	20°♎45'36	17°58'36
desc. node	1620 Nov 16 03:48	21°♎00'11			1621 Oct 08 19:03	0°♄	
				morning set	1621 Oct 19 03:19	17°♄08'51	
superior conj	1620 Nov 21 22:22	0°♄07'45	-0°37'53		1621 Oct 26 19:21	0°♎	
minimum elong	1620 Nov 21 17:27	29°♎48'25	0°37'14				
	1620 Nov 21 20:23	0°♄		superior conj	1621 Nov 01 10:58	9°♎13'30	0°10'37
max. Earth dist.	1620 Nov 23 12:16	2°♄36'49	1.45120 AU	minimum elong	1621 Nov 01 12:12	9°♎18'30	0°10'26
evening rise	1620 Dec 08 04:01	25°♄36'10		behind sun begin	1621 Nov 01 04:14	8°♎46'18	
	1620 Dec 10 23:10	0°♄		behind sun end	1621 Nov 01 20:11	9°♎50'39	
greatest brilliancy	1620 Dec 18 16:16	12°♄03'19	-0.8m	desc. node	1621 Nov 03 00:50	11°♎45'45	
evening max el	1620 Dec 31 08:41	29°♄29'21	19°15'21	max. Earth dist.	1621 Nov 06 07:03	16°♎57'31	1.44613 AU
	1620 Dec 31 20:54	0°♄			1621 Nov 14 14:53	0°♄	
asc. node	1621 Jan 04 13:50	2°♄47'57		evening rise	1621 Nov 17 17:27	4°♄48'06	
retrograde	1621 Jan 07 09:56	3°♄31'45		greatest brilliancy	1621 Dec 02 00:12	26°♄26'11	-0.6m
evening set	1621 Jan 10 19:12	2°♄24'50			1621 Dec 04 10:55	0°♄	
	1621 Jan 13 12:38	30°♄♄		evening max el	1621 Dec 14 12:59	12°♄58'30	20°11'01
inferior conj	1621 Jan 16 08:51	26°♄33'36	3°15'22	retrograde	1621 Dec 22 07:46	17°♄32'42	
minimum elong	1621 Jan 16 06:25	26°♄41'22	3°14'52	asc. node	1621 Dec 22 10:53	17°♄32'36	
min. Earth dist.	1621 Jan 17 17:35	24°♄48'39	0.66110 AU	evening set	1621 Dec 26 01:12	16°♄11'50	
morning rise	1621 Jan 21 17:25	20°♄21'53		inferior conj	1621 Dec 31 11:26	10°♄07'15	2°43'24
direct	1621 Jan 28 01:57	17°♄33'45		minimum elong	1621 Dec 31 08:46	10°♄16'13	2°42'40
morning max el	1621 Feb 09 17:49	25°♄02'58	26°13'52	min. Earth dist.	1622 Jan 01 06:35	9°♄02'44	0.67043 AU
desc. node	1621 Feb 12 03:00	27°♄34'07		morning rise	1622 Jan 05 16:09	3°♄53'58	
	1621 Feb 14 06:06	0°♄		direct	1622 Jan 11 11:00	1°♄19'41	
	1621 Mar 07 04:54	0°♄		morning max el	1622 Jan 23 02:35	8°♄16'32	24°54'50
morning set	1621 Mar 17 21:45	18°♄46'41		desc. node	1622 Jan 30 00:02	16°♄08'46	
max. Earth dist.	1621 Mar 21 22:04	26°♄26'23	1.35189 AU		1622 Feb 09 03:54	0°♄	
	1621 Mar 23 17:28	0°♄			1622 Feb 27 18:39	0°♄	
				morning set	1622 Feb 28 06:12	0°♄51'12	
superior conj	1621 Mar 26 21:07	6°♄21'04	-1°05'15	max. Earth dist.	1622 Mar 03 22:02	7°♄29'05	1.37014 AU
minimum elong	1621 Mar 27 00:21	6°♄37'33	1°04'41				
asc. node	1621 Apr 02 13:12	20°♄08'49		superior conj	1622 Mar 10 08:19	19°♄43'30	-1°30'35
evening rise	1621 Apr 03 15:22	22°♄23'46		minimum elong	1622 Mar 10 12:26	20°♄03'41	1°30'03
	1621 Apr 07 09:58	0°♄			1622 Mar 15 12:13	0°♄	
evening max el	1621 Apr 22 04:56	22°♄29'46	20°33'20	evening rise	1622 Mar 18 18:06	6°♄31'36	
retrograde	1621 May 03 06:28	27°♄51'46		asc. node	1622 Mar 20 10:14	9°♄51'29	
evening set	1621 May 05 08:39	27°♄41'03			1622 Apr 01 04:04	0°♄	
desc. node	1621 May 11 02:12	25°♄38'19		evening max el	1622 Apr 04 19:26	4°♄09'30	19°27'01
inferior conj	1621 May 14 13:27	23°♄43'16	-1°00'30	retrograde	1622 Apr 14 03:59	8°♄40'32	
minimum elong	1621 May 14 10:35	23°♄47'24	0°59'28	evening set	1622 Apr 16 05:52	8°♄28'08	
min. Earth dist.	1621 May 15 19:37	22°♄59'44	0.55055 AU	inferior conj	1622 Apr 24 18:23	4°♄21'54	0°54'35
morning rise	1621 May 23 11:38	19°♄32'13		minimum elong	1622 Apr 24 20:37	4°♄18'16	0°53'49
direct	1621 May 27 03:01	19°♄03'39		min. Earth dist.	1622 Apr 27 10:10	2°♄38'55	0.56017 AU
morning max el	1621 Jun 09 10:58	25°♄31'04	23°15'36	desc. node	1622 Apr 27 23:15	2°♄18'35	
	1621 Jun 13 15:46	0°♄			1622 May 02 09:22	30°♄♄	
asc. node	1621 Jun 29 12:28	25°♄45'59		morning rise	1622 May 03 08:35	29°♄38'22	
	1621 Jul 01 14:14	0°♄		direct	1622 May 07 22:51	28°♄50'28	
morning set	1621 Jul 02 16:09	2°♄15'15			1622 May 13 11:20	0°♄	
				morning max el	1622 May 22 01:39	5°♄59'02	24°56'38
superior conj	1621 Jul 09 18:01	17°♄24'35	1°29'35		1622 Jun 08 09:37	0°♄	
minimum elong	1621 Jul 09 15:44	17°♄12'26	1°29'20	asc. node	1622 Jun 16 09:31	15°♄34'41	
max. Earth dist.	1621 Jul 12 06:46	22°♄47'26	1.33694 AU	morning set	1622 Jun 17 04:01	17°♄11'50	
	1621 Jul 15 18:21	0°♄			1622 Jun 23 02:14	0°♄	
evening rise	1621 Jul 17 08:51	3°♄13'25					
	1621 Aug 01 09:36	0°♄		superior conj	1622 Jun 24 03:34	2°♄18'13	1°13'44
desc. node	1621 Aug 07 01:32	8°♄28'42		minimum elong	1622 Jun 24 01:09	2°♄05'04	1°13'21
evening max el	1621 Aug 20 12:46	24°♄42'28	27°20'02	max. Earth dist.	1622 Jun 25 12:34	5°♄17'38	1.32810 AU
	1621 Aug 27 08:45	0°♄		evening rise	1622 Jul 01 08:08	17°♄35'54	
retrograde	1621 Sep 03 00:26	2°♄00'50			1622 Jul 07 16:17	0°♄	
	1621 Sep 09 02:53	30°♄♄		desc. node	1622 Jul 24 22:33	27°♄24'11	
evening set	1621 Sep 10 02:27	29°♄17'44			1622 Jul 26 23:32	0°♄	
min. Earth dist.	1621 Sep 13 20:05	25°♄50'39	0.64422 AU	evening max el	1622 Aug 02 22:05	7°♄37'33	27°23'26
inferior conj	1621 Sep 16 04:14	23°♄20'15	-2°57'42	retrograde	1622 Aug 16 16:28	14°♄55'01	
minimum elong	1621 Sep 16 08:48	23°♄07'59	2°56'08	evening set	1622 Aug 23 21:29	12°♄23'28	
morning rise	1621 Sep 22 16:08	17°♄53'51		min. Earth dist.	1622 Aug 27 11:33	9°♄26'18	0.62712 AU

inferior conj	1622 Aug 30 08:05	6°♎41'59	-3°50'10	minimum elong	1623 Aug 13 02:41	19°♏29'44	4°31'35
minimum elong	1622 Aug 30 13:20	6°♎29'22	3°48'47	morning rise	1623 Aug 20 07:45	14°♏52'16	
morning rise	1622 Sep 06 06:36	1°♎34'01		direct	1623 Aug 22 17:59	14°♏29'12	
direct	1622 Sep 08 17:41	1°♎06'20		morning max el	1623 Aug 29 23:52	18°♏03'39	18°04'24
asc. node	1622 Sep 12 08:42	2°♎07'53		asc. node	1623 Aug 30 05:44	18°♏18'05	
morning max el	1622 Sep 15 10:52	4°♎32'35	17°52'04		1623 Sep 07 14:05	0°♎	
morning set	1622 Oct 01 15:22	29°♎44'21		morning set	1623 Sep 14 20:14	13°♎07'45	
	1622 Oct 01 18:54	0°♎			1623 Sep 24 00:41	0°♎	
superior conj	1622 Oct 13 00:59	19°♎35'32	0°51'46	superior conj	1623 Sep 24 17:31	1°♎15'06	1°21'02
minimum elong	1622 Oct 13 05:23	19°♎54'07	0°51'11	minimum elong	1623 Sep 24 21:47	1°♎34'05	1°20'36
	1622 Oct 19 07:55	0°♎		max. Earth dist.	1623 Oct 02 08:25	14°♎24'17	1.41751 AU
max. Earth dist.	1622 Oct 19 22:20	0°♎58'23	1.43439 AU	evening rise	1623 Oct 07 22:19	23°♎32'40	
desc. node	1622 Oct 20 21:51	2°♎33'15		desc. node	1623 Oct 07 18:52	23°♎18'51	
evening rise	1622 Oct 28 01:52	13°♎52'39			1623 Oct 12 00:18	0°♎	
	1622 Nov 07 16:50	0°♎			1623 Nov 01 17:48	0°♎	
evening max el	1622 Nov 27 11:40	26°♎28'33	21°19'21	evening max el	1623 Nov 10 05:06	10°♎00'14	22°36'20
	1622 Dec 01 13:56	0°♎		retrograde	1623 Nov 20 00:42	15°♎50'11	
retrograde	1622 Dec 06 05:18	1°♎40'02		evening set	1623 Nov 24 16:11	13°♎57'08	
asc. node	1622 Dec 09 07:55	0°♎46'16		asc. node	1623 Nov 26 04:57	12°♎29'32	
evening set	1622 Dec 10 08:47	0°♎03'43		inferior conj	1623 Nov 30 00:44	7°♎36'16	1°16'59
	1622 Dec 10 10:39	30°♎		minimum elong	1623 Nov 29 23:03	7°♎42'05	1°16'18
inferior conj	1622 Dec 15 17:23	23°♎49'08	2°03'24	min. Earth dist.	1623 Nov 29 20:54	7°♎49'29	0.67804 AU
minimum elong	1622 Dec 15 15:00	23°♎57'23	2°02'34	morning rise	1623 Dec 05 05:46	1°♎25'44	
min. Earth dist.	1622 Dec 16 00:31	23°♎24'30	0.67600 AU		1623 Dec 07 13:35	30°♎	
morning rise	1622 Dec 20 21:03	17°♎36'12		direct	1623 Dec 09 18:51	29°♎34'04	
direct	1622 Dec 26 00:57	15°♎21'54			1623 Dec 12 03:01	0°♎	
morning max el	1623 Jan 05 11:24	21°♎34'43	23°27'02	morning max el	1623 Dec 18 23:29	4°♎58'38	22°00'06
	1623 Jan 12 18:06	0°♎		desc. node	1624 Jan 03 18:05	25°♎13'53	
desc. node	1623 Jan 16 21:03	5°♎26'10			1624 Jan 07 00:33	0°♎	
	1623 Feb 02 11:02	0°♎		morning set	1624 Jan 20 17:58	21°♎09'14	
morning set	1623 Feb 09 14:35	11°♎42'29			1624 Jan 26 03:40	0°♎	
max. Earth dist.	1623 Feb 13 16:42	18°♎43'55	1.39115 AU	max. Earth dist.	1624 Jan 26 14:23	0°♎44'42	1.41237 AU
	1623 Feb 19 23:07	0°♎					
superior conj	1623 Feb 21 05:42	2°♎21'57	-1°51'08	superior conj	1624 Feb 03 08:23	14°♎04'26	-2°03'07
minimum elong	1623 Feb 21 09:36	2°♎40'09	1°50'49	minimum elong	1624 Feb 03 10:03	14°♎11'51	2°03'04
evening rise	1623 Mar 02 12:52	20°♎10'43		evening rise	1624 Feb 12 02:44	0°♎	
asc. node	1623 Mar 07 07:15	29°♎15'12		asc. node	1624 Feb 22 04:16	18°♎13'26	
	1623 Mar 07 16:58	0°♎		evening max el	1624 Mar 01 03:54	29°♎13'27	18°14'21
evening max el	1623 Mar 18 20:06	16°♎26'48	18°40'38		1624 Mar 02 00:01	0°♎	
retrograde	1623 Mar 26 18:37	20°♎19'07		retrograde	1624 Mar 08 03:54	2°♎43'42	
evening set	1623 Mar 29 01:56	20°♎00'43		evening set	1624 Mar 10 17:07	2°♎16'41	
inferior conj	1623 Apr 05 18:59	15°♎37'00	2°22'43		1624 Mar 14 17:25	30°♎	
minimum elong	1623 Apr 05 23:03	15°♎29'17	2°21'37	inferior conj	1624 Mar 17 16:39	27°♎32'04	3°16'46
min. Earth dist.	1623 Apr 09 03:41	13°♎05'46	0.57709 AU	minimum elong	1624 Mar 17 19:44	27°♎25'16	3°16'15
morning rise	1623 Apr 13 17:05	10°♎20'26		min. Earth dist.	1624 Mar 21 02:00	24°♎34'19	0.59783 AU
desc. node	1623 Apr 14 20:16	9°♎51'59		morning rise	1624 Mar 24 20:04	21°♎51'08	
direct	1623 Apr 19 09:04	9°♎00'31		direct	1624 Mar 31 07:58	19°♎54'17	
morning max el	1623 May 03 17:47	16°♎34'56	26°24'13	desc. node	1624 Mar 31 17:16	19°♎54'41	
	1623 May 14 17:16	0°♎		morning max el	1624 Apr 14 15:22	27°♎42'11	27°24'27
	1623 May 31 15:03	0°♎			1624 Apr 16 20:36	0°♎	
morning set	1623 Jun 01 14:54	2°♎04'37			1624 May 07 08:14	0°♎	
asc. node	1623 Jun 03 06:32	5°♎35'08		morning set	1624 May 15 23:08	16°♎48'11	
				asc. node	1624 May 20 03:34	25°♎42'48	
superior conj	1623 Jun 08 15:02	17°♎15'55	0°53'55		1624 May 22 02:41	0°♎	
minimum elong	1623 Jun 08 12:57	17°♎04'28	0°53'32	max. Earth dist.	1624 May 22 11:46	0°♎49'52	1.32218 AU
max. Earth dist.	1623 Jun 08 23:22	18°♎01'47	1.32323 AU				
	1623 Jun 14 11:53	0°♎		superior conj	1624 May 23 02:42	2°♎11'52	0°30'55
evening rise	1623 Jun 15 13:47	2°♎16'21		minimum elong	1624 May 23 01:22	2°♎04'31	0°30'38
	1623 Jun 30 14:25	0°♎		evening rise	1624 May 29 23:27	17°♎07'08	
desc. node	1623 Jul 11 19:35	15°♎23'04			1624 Jun 05 08:52	0°♎	
evening max el	1623 Jul 16 02:33	19°♎53'40	26°53'57		1624 Jun 25 14:19	0°♎	
retrograde	1623 Jul 30 01:11	27°♎07'58		evening max el	1624 Jun 27 00:18	1°♎24'13	25°52'29
evening set	1623 Aug 05 23:27	25°♎01'51		desc. node	1624 Jun 27 16:35	2°♎02'18	
min. Earth dist.	1623 Aug 09 16:41	22°♎22'36	0.60741 AU	retrograde	1624 Jul 11 00:42	8°♎34'06	
inferior conj	1623 Aug 12 22:15	19°♎39'07	-4°32'18	evening set	1624 Jul 17 03:44	7°♎04'16	

min. Earth dist.	1624 Jul 21 12:45	4°Ω25'59	0.58686 AU	desc. node	1625 Jun 14 13:36	16°☿49'34	
inferior conj	1624 Jul 24 19:13	2°Ω02'35	-4°54'49	retrograde	1625 Jun 22 12:56	19°☿13'27	
minimum elong	1624 Jul 24 20:29	2°Ω00'15	4°54'47	evening set	1625 Jun 27 08:31	18°☿21'30	
	1624 Jul 27 17:04	30°☿☿		min. Earth dist.	1625 Jul 03 02:40	15°☿26'54	0.56808 AU
morning rise	1624 Aug 01 15:30	27°☿38'20		inferior conj	1625 Jul 05 20:12	13°☿42'39	-4°44'39
direct	1624 Aug 04 03:31	27°☿17'51		minimum elong	1625 Jul 05 16:19	13°☿48'53	4°44'15
	1624 Aug 10 22:33	0°Ω		morning rise	1625 Jul 14 02:50	9°☿39'08	
morning max el	1624 Aug 12 06:50	1°Ω10'29	18°36'54	direct	1625 Jul 16 18:22	9°☿20'04	
asc. node	1624 Aug 16 02:46	5°Ω34'57		morning max el	1625 Jul 26 04:47	13°☿43'12	19°30'39
morning set	1624 Aug 28 13:01	27°Ω06'06		asc. node	1625 Aug 02 23:49	23°☿43'27	
	1624 Aug 30 00:51	0°☿			1625 Aug 06 15:26	0°Ω	
				morning set	1625 Aug 12 14:04	11°Ω28'56	
superior conj	1624 Sep 06 07:58	13°☿59'41	1°38'24				
minimum elong	1624 Sep 06 10:32	14°☿11'42	1°38'15	superior conj	1625 Aug 20 14:42	27°Ω33'10	1°45'34
max. Earth dist.	1624 Sep 13 13:57	27°☿08'46	1.39766 AU	minimum elong	1625 Aug 20 15:20	27°Ω36'16	1°45'33
	1624 Sep 15 05:21	0°☿			1625 Aug 21 20:45	0°☿	
evening rise	1624 Sep 17 17:22	4°☿15'41		max. Earth dist.	1625 Aug 26 17:49	9°☿15'38	1.37730 AU
desc. node	1624 Sep 23 15:55	13°☿59'04		evening rise	1625 Aug 30 12:16	16°☿05'30	
	1624 Oct 04 05:00	0°☿			1625 Sep 07 17:17	0°☿	
evening max el	1624 Oct 22 18:48	23°☿35'17	23°56'23	desc. node	1625 Sep 10 12:57	4°☿29'22	
	1624 Nov 02 09:11	0°☿			1625 Sep 28 17:53	0°☿	
retrograde	1624 Nov 02 16:47	0°☿00'26		evening max el	1625 Oct 05 06:47	7°☿13'28	25°12'49
	1624 Nov 03 00:20	30°☿☿		retrograde	1625 Oct 17 04:41	14°☿06'34	
evening set	1624 Nov 07 21:52	27°☿50'06		evening set	1625 Oct 23 00:10	11°☿40'09	
asc. node	1624 Nov 12 01:59	23°☿07'07		min. Earth dist.	1625 Oct 27 11:28	6°☿40'16	0.67203 AU
min. Earth dist.	1624 Nov 12 17:20	22°☿15'30	0.67672 AU	inferior conj	1625 Oct 28 12:34	5°☿18'29	-0°29'43
inferior conj	1624 Nov 13 07:42	21°☿26'47	0°25'31	minimum elong	1625 Oct 28 13:19	5°☿16'01	0°29'23
minimum elong	1624 Nov 13 07:05	21°☿28'52	0°25'15	asc. node	1625 Oct 29 23:01	3°☿28'06	
morning rise	1624 Nov 18 16:17	15°☿21'03			1625 Nov 02 05:17	30°☿☿	
direct	1624 Nov 22 15:37	13°☿51'41		morning rise	1625 Nov 03 02:40	29°☿20'00	
morning max el	1624 Nov 30 18:17	18°☿32'58	20°41'26	direct	1625 Nov 06 13:54	28°☿10'35	
	1624 Dec 10 00:47	0°☿			1625 Nov 11 05:52	0°☿	
desc. node	1624 Dec 20 15:07	15°☿23'42		morning max el	1625 Nov 13 21:02	2°☿18'29	19°35'33
morning set	1624 Dec 29 20:26	29°☿29'08		greatest brilliancy	1625 Nov 27 05:37	20°☿08'13	-0.7m
	1624 Dec 30 04:22	0°☿			1625 Dec 03 17:25	0°☿	
max. Earth dist.	1625 Jan 07 20:01	13°☿43'41	1.43088 AU	desc. node	1625 Dec 07 12:11	5°☿49'23	
				morning set	1625 Dec 08 17:51	7°☿44'03	
superior conj	1625 Jan 14 11:08	24°☿38'55	-2°01'45	max. Earth dist.	1625 Dec 21 08:56	27°☿29'00	1.44415 AU
minimum elong	1625 Jan 14 08:09	24°☿26'23	2°01'39		1625 Dec 22 22:57	0°☿	
	1625 Jan 17 15:03	0°☿					
evening rise	1625 Jan 26 12:29	15°☿30'11		superior conj	1625 Dec 25 11:28	4°☿01'58	-1°42'32
	1625 Feb 03 20:03	0°☿		minimum elong	1625 Dec 25 03:33	3°☿30'14	1°41'54
asc. node	1625 Feb 08 01:17	6°☿37'49		evening rise	1626 Jan 08 09:05	26°☿54'52	
evening max el	1625 Feb 12 15:31	12°☿19'49	18°07'37		1626 Jan 10 05:04	0°☿	
retrograde	1625 Feb 19 04:27	15°☿43'38		asc. node	1626 Jan 25 22:20	24°☿18'24	
evening set	1625 Feb 21 22:47	15°☿06'43		evening max el	1626 Jan 27 04:04	25°☿38'47	18°19'51
inferior conj	1625 Feb 28 08:32	10°☿01'06	3°41'18	retrograde	1626 Feb 02 15:38	29°☿09'20	
minimum elong	1625 Feb 28 09:36	9°☿58'26	3°41'13	evening set	1626 Feb 05 15:00	28°☿21'42	
min. Earth dist.	1625 Mar 03 07:54	7°☿01'51	0.61904 AU	inferior conj	1626 Feb 11 14:38	22°☿56'43	3°43'26
morning rise	1625 Mar 06 19:04	4°☿04'45		minimum elong	1626 Feb 11 13:51	22°☿58'55	3°43'24
direct	1625 Mar 13 16:48	1°☿36'29		min. Earth dist.	1626 Feb 13 23:24	20°☿16'38	0.63819 AU
desc. node	1625 Mar 18 14:18	2°☿42'57		morning rise	1626 Feb 17 12:00	16°☿51'20	
morning max el	1625 Mar 27 19:14	9°☿30'39	27°48'58	direct	1626 Feb 24 09:58	14°☿04'03	
	1625 Apr 12 16:18	0°☿		desc. node	1626 Mar 05 11:20	17°☿49'40	
	1625 Apr 29 12:00	0°☿		morning max el	1626 Mar 10 03:36	21°☿57'45	27°36'23
morning set	1625 Apr 30 02:43	1°☿14'44			1626 Mar 17 04:58	0°☿	
max. Earth dist.	1625 May 05 21:44	13°☿26'53	1.32497 AU		1626 Apr 05 20:08	0°☿	
asc. node	1625 May 07 00:35	15°☿52'27		morning set	1626 Apr 13 23:12	15°☿16'36	
				max. Earth dist.	1626 Apr 19 01:13	25°☿39'46	1.33187 AU
superior conj	1625 May 07 12:49	16°☿59'02	0°05'24		1626 Apr 21 02:27	0°☿	
minimum elong	1625 May 07 12:34	16°☿57'38	0°05'21				
behind sun begin	1625 May 07 07:43	16°☿31'11		superior conj	1626 Apr 21 19:38	1°☿31'42	-0°21'49
behind sun end	1625 May 07 17:26	17°☿24'06		minimum elong	1626 Apr 21 20:42	1°☿37'27	0°21'35
	1625 May 13 12:32	0°☿		asc. node	1626 Apr 23 21:39	6°☿00'12	
evening rise	1625 May 14 11:01	1°☿59'52		evening rise	1626 Apr 28 22:41	16°☿48'17	
	1625 May 29 17:42	0°☿			1626 May 05 12:28	0°☿	
evening max el	1625 Jun 08 15:38	12°☿12'30	24°26'51	evening max el	1626 May 21 05:51	22°☿41'56	22°51'02

desc. node	1626 Jun 01 10:37	29°II08'55		evening max el	1627 May 03 02:40	3°II25'04	21°19'46
retrograde	1626 Jun 03 13:04	29°II19'00		retrograde	1627 May 15 03:35	9°II17'36	
evening set	1626 Jun 06 21:12	28°II54'31		evening set	1627 May 17 11:19	9°II05'13	
min. Earth dist.	1626 Jun 14 14:29	25°II29'58	0.55448 AU	desc. node	1627 May 19 07:37	8°II38'47	
inferior conj	1626 Jun 16 02:07	24°II38'40	-3°49'10	inferior conj	1627 May 26 20:47	5°II05'39	-2°09'17
minimum elong	1626 Jun 15 18:28	24°II49'43	3°47'19	minimum elong	1627 May 26 14:52	5°II13'59	2°07'17
morning rise	1626 Jun 24 18:10	20°II46'16		min. Earth dist.	1627 May 27 02:55	4°II57'03	0.54916 AU
direct	1626 Jun 27 14:30	20°II27'19		morning rise	1627 Jun 04 18:48	1°II06'35	
morning max el	1626 Jul 08 15:45	25°II34'36	20°45'20	direct	1627 Jun 08 00:42	0°II43'41	
	1626 Jul 12 17:19	0°☾		morning max el	1627 Jun 20 15:46	6°II43'19	22°17'34
asc. node	1626 Jul 20 20:53	12°☾31'34			1627 Jul 06 19:08	0°☾	
morning set	1626 Jul 27 20:41	26°☾08'52		asc. node	1627 Jul 07 17:58	1°☾49'42	
	1626 Jul 29 17:26	0°♌		morning set	1627 Jul 12 06:47	11°☾00'15	
superior conj	1626 Aug 04 09:03	11°♌41'59	1°44'26	superior conj	1627 Jul 19 11:26	26°☾15'32	1°36'37
minimum elong	1626 Aug 04 08:07	11°♌37'13	1°44'23	minimum elong	1627 Jul 19 09:30	26°☾05'16	1°36'26
max. Earth dist.	1626 Aug 09 01:30	21°♌05'25	1.35883 AU		1627 Jul 21 06:12	0°♌	
evening rise	1626 Aug 13 03:33	28°♌53'59		max. Earth dist.	1627 Jul 22 17:45	3°♌04'09	1.34379 AU
	1626 Aug 13 17:46	0°♍		evening rise	1627 Jul 27 10:32	12°♌29'14	
desc. node	1626 Aug 28 09:59	24°♍44'12			1627 Aug 06 01:15	0°♍	
	1626 Aug 31 22:48	0°♎		desc. node	1627 Aug 15 07:00	14°♍36'49	
evening max el	1626 Sep 17 18:39	20°♎51'39	26°18'07		1627 Aug 27 01:56	0°♎	
retrograde	1626 Sep 30 11:49	28°♎02'28		evening max el	1627 Aug 31 06:51	4°♎23'26	27°04'39
evening set	1626 Oct 06 21:08	25°♎23'45		retrograde	1627 Sep 13 13:31	11°♎41'28	
min. Earth dist.	1626 Oct 11 00:56	20°♎59'59	0.66396 AU	evening set	1627 Sep 20 10:28	8°♎57'25	
inferior conj	1626 Oct 12 13:27	19°♎07'57	-1°27'16	min. Earth dist.	1627 Sep 24 07:31	5°♎09'57	0.65242 AU
minimum elong	1626 Oct 12 15:45	19°♎00'53	1°26'18	inferior conj	1627 Sep 26 08:15	2°♎51'52	-2°25'11
asc. node	1626 Oct 16 20:06	14°♎28'40		minimum elong	1627 Sep 26 12:05	2°♎41'00	2°23'45
morning rise	1626 Oct 18 10:50	13°♎19'25			1627 Sep 29 00:01	30°♎♍	
direct	1626 Oct 21 12:07	12°♎26'22		morning rise	1627 Oct 02 14:28	27°♎16'14	
morning max el	1626 Oct 28 06:38	16°♎11'24	18°44'47	asc. node	1627 Oct 03 17:09	26°♎50'06	
	1626 Nov 07 14:07	0°♎		direct	1627 Oct 05 08:13	26°♎35'43	
morning set	1626 Nov 18 10:01	17°♎00'01			1627 Oct 11 18:03	0°♎	
desc. node	1626 Nov 24 09:14	26°♎25'37		morning max el	1627 Oct 11 20:51	0°♎06'59	18°10'28
	1626 Nov 26 15:42	0°♏		morning set	1627 Oct 30 07:14	27°♎43'13	
max. Earth dist.	1626 Dec 04 02:11	11°♏41'02	1.45068 AU	desc. node	1627 Oct 31 16:28	0°♎	
superior conj	1626 Dec 04 15:56	12°♏35'03	-1°05'04		1627 Nov 11 06:17	17°♎08'58	
minimum elong	1626 Dec 04 08:06	12°♏04'17	1°04'07	superior conj	1627 Nov 13 19:30	21°♎12'24	-0°17'01
	1626 Dec 15 16:20	0°♏		minimum elong	1627 Nov 13 17:19	21°♎03'46	0°16'43
evening rise	1626 Dec 20 06:37	7°♏21'08		max. Earth dist.	1627 Nov 16 20:58	26°♎02'40	1.44991 AU
greatest brilliancy	1626 Dec 27 06:02	18°♏33'35	-0.9m		1627 Nov 19 09:23	0°♏	
	1627 Jan 03 14:33	0°♐		evening rise	1627 Nov 30 05:39	16°♏54'17	
evening max el	1627 Jan 10 15:00	9°♐04'21	18°50'15		1627 Dec 08 16:43	0°♏	
asc. node	1627 Jan 12 19:23	11°♐02'06		greatest brilliancy	1627 Dec 12 18:55	6°♏14'13	-0.7m
retrograde	1627 Jan 17 09:19	12°♐52'34		evening max el	1627 Dec 24 22:14	22°♏33'10	19°37'19
evening set	1627 Jan 20 14:30	11°♐53'13		asc. node	1627 Dec 30 16:25	26°♏34'26	
inferior conj	1627 Jan 26 07:05	6°♐11'00	3°29'13	retrograde	1628 Jan 01 06:16	26°♏48'10	
minimum elong	1627 Jan 26 05:04	6°♐17'12	3°28'56	evening set	1628 Jan 04 18:44	25°♏35'39	
min. Earth dist.	1627 Jan 28 00:25	4°♐03'35	0.65387 AU	inferior conj	1628 Jan 10 06:42	19°♏38'38	3°02'54
morning rise	1627 Jan 31 19:15	0°♐00'42		minimum elong	1628 Jan 10 04:07	19°♏47'08	3°02'17
	1627 Jan 31 19:34	30°♏♐		min. Earth dist.	1628 Jan 11 09:34	18°♏10'27	0.66559 AU
direct	1627 Feb 07 10:13	27°♏08'50		morning rise	1628 Jan 15 13:16	13°♏26'00	
	1627 Feb 14 22:07	0°♐		direct	1628 Jan 21 16:23	10°♏42'22	
desc. node	1627 Feb 20 08:23	4°♐38'54		morning max el	1628 Feb 02 22:33	17°♏59'43	25°41'52
morning max el	1627 Feb 20 13:27	4°♐51'34	26°51'19	desc. node	1628 Feb 07 05:27	22°♏41'28	
	1627 Mar 11 18:05	0°♑			1628 Feb 13 01:10	0°♐	
morning set	1627 Mar 28 09:21	28°♑43'38			1628 Mar 03 18:09	0°♑	
	1627 Mar 29 01:15	0°♒		morning set	1628 Mar 10 04:45	11°♑22'46	
max. Earth dist.	1627 Apr 01 18:23	7°♒18'38	1.34322 AU	max. Earth dist.	1628 Mar 13 23:41	18°♑27'23	1.35917 AU
superior conj	1627 Apr 05 21:02	15°♒43'30	-0°49'35	superior conj	1628 Mar 19 14:22	29°♑26'52	-1°16'24
minimum elong	1627 Apr 05 23:31	15°♒56'26	0°49'06	minimum elong	1628 Mar 19 18:04	29°♑45'25	1°15'49
asc. node	1627 Apr 10 18:43	26°♒01'52			1628 Mar 19 20:58	0°♒	
	1627 Apr 12 16:03	0°♓		evening rise	1628 Mar 27 14:35	15°♒46'59	
evening rise	1627 Apr 13 08:34	1°♓26'08		asc. node	1628 Mar 27 15:45	15°♒52'57	
	1627 Apr 29 23:16	0°♓			1628 Apr 03 22:57	0°♓	

	1630 Feb 16 05:55	0°♄		evening rise	1631 Feb 06 06:12	25°♄52'43	
evening rise	1630 Feb 23 04:43	13°♄08'34			1631 Feb 08 12:36	0°♄	
asc. node	1630 Mar 01 09:48	24°♄42'28		asc. node	1631 Feb 16 06:49	13°♄27'24	
	1630 Mar 04 12:08	0°♄		evening max el	1631 Feb 22 19:33	22°♄05'27	18°09'06
evening max el	1630 Mar 11 09:49	9°♄09'54	18°27'00	retrograde	1631 Mar 01 13:45	25°♄31'29	
retrograde	1630 Mar 18 21:26	12°♄51'14		evening set	1631 Mar 04 05:04	25°♄00'32	
evening set	1630 Mar 21 07:16	12°♄29'27		inferior conj	1631 Mar 10 22:18	20°♄07'01	3°30'19
inferior conj	1630 Mar 28 16:25	7°♄56'40	2°49'40	minimum elong	1631 Mar 11 00:33	20°♄01'44	3°30'03
minimum elong	1630 Mar 28 20:18	7°♄48'48	2°48'47	min. Earth dist.	1631 Mar 14 04:23	17°♄05'22	0.60695 AU
min. Earth dist.	1630 Apr 01 02:52	5°♄11'19	0.58561 AU	morning rise	1631 Mar 17 18:06	14°♄18'13	
morning rise	1630 Apr 05 06:33	2°♄28'22		direct	1631 Mar 24 11:19	12°♄06'36	
desc. node	1630 Apr 08 22:41	1°♄07'55		desc. node	1631 Mar 26 19:43	12°♄21'50	
direct	1630 Apr 11 07:50	0°♄53'05		morning max el	1631 Apr 07 17:22	19°♄58'54	27°39'28
morning max el	1630 Apr 25 16:53	8°♄34'16	26°53'55		1631 Apr 16 07:13	0°♄	
	1630 May 11 22:17	0°♄			1631 May 04 18:11	0°♄	
morning set	1630 May 25 16:08	25°♄42'11		morning set	1631 May 09 22:39	10°♄19'20	
	1630 May 27 16:46	0°♄		asc. node	1631 May 15 06:08	21°♄36'42	
asc. node	1630 May 28 09:05	1°♄27'46		max. Earth dist.	1631 May 16 03:39	23°♄34'00	1.32282 AU
superior conj	1630 Jun 01 17:20	10°♄57'33	0°44'31	superior conj	1631 May 17 04:34	25°♄50'21	0°20'21
minimum elong	1630 Jun 01 15:32	10°♄47'34	0°44'09	minimum elong	1631 May 17 03:39	25°♄45'21	0°20'09
max. Earth dist.	1630 Jun 01 15:57	10°♄49'54	1.32233 AU		1631 May 19 02:05	0°♄	
evening rise	1630 Jun 08 14:50	25°♄54'36		evening rise	1631 May 24 01:31	10°♄46'38	
	1630 Jun 10 14:06	0°♄			1631 Jun 02 21:35	0°♄	
	1630 Jun 27 20:46	0°♄		evening max el	1631 Jun 19 21:51	23°♄23'25	25°18'18
desc. node	1630 Jul 05 21:59	9°♄58'43		desc. node	1631 Jun 22 19:00	25°♄54'42	
evening max el	1630 Jul 08 03:19	12°♄12'57	26°31'18		1631 Jun 30 06:21	0°♄	
retrograde	1630 Jul 22 02:49	19°♄25'53		retrograde	1631 Jul 03 22:16	0°♄31'30	
evening set	1630 Jul 28 18:46	17°♄33'51			1631 Jul 07 14:02	30°♄	
min. Earth dist.	1630 Aug 01 16:36	14°♄57'34	0.59867 AU	evening set	1631 Jul 09 12:58	29°♄18'18	
inferior conj	1630 Aug 05 00:06	12°♄19'56	-4°44'57	min. Earth dist.	1631 Jul 14 09:44	26°♄34'50	0.57838 AU
minimum elong	1630 Aug 05 03:30	12°♄13'08	4°44'34	inferior conj	1631 Jul 17 12:46	24°♄25'41	-4°55'26
morning rise	1630 Aug 12 14:17	7°♄43'02		minimum elong	1631 Jul 17 11:58	24°♄27'04	4°55'24
direct	1630 Aug 15 01:03	7°♄21'15		morning rise	1631 Jul 25 13:32	20°♄11'02	
morning max el	1630 Aug 22 14:48	11°♄01'42	18°15'44	direct	1631 Jul 28 02:40	19°♄51'27	
asc. node	1630 Aug 24 08:18	12°♄51'30		morning max el	1631 Aug 05 18:21	23°♄55'41	18°57'10
	1630 Sep 04 04:10	0°♄			1631 Aug 10 20:28	0°♄	
morning set	1630 Sep 07 13:12	6°♄20'46		asc. node	1631 Aug 11 05:22	0°♄32'08	
				morning set	1631 Aug 22 09:53	20°♄30'28	
					1631 Aug 27 05:26	0°♄	
superior conj	1630 Sep 16 22:11	23°♄53'28	1°29'47				
minimum elong	1630 Sep 17 01:50	24°♄10'01	1°29'28	superior conj	1631 Aug 30 20:13	7°♄00'52	1°42'35
	1630 Sep 20 07:56	0°♄		minimum elong	1631 Aug 30 21:57	7°♄09'07	1°42'30
max. Earth dist.	1630 Sep 24 12:22	7°♄15'48	1.40925 AU	max. Earth dist.	1631 Sep 06 16:06	19°♄40'43	1.38885 AU
evening rise	1630 Sep 29 07:49	15°♄17'33		evening rise	1631 Sep 10 13:15	26°♄29'43	
desc. node	1630 Oct 01 21:21	19°♄26'31			1631 Sep 12 14:39	0°♄	
	1630 Oct 08 15:45	0°♄		desc. node	1631 Sep 18 18:22	10°♄03'07	
	1630 Oct 30 14:33	0°♄			1631 Oct 02 05:57	0°♄	
evening max el	1630 Nov 02 12:02	3°♄06'08	23°10'19	evening max el	1631 Oct 16 00:42	16°♄42'35	24°29'47
retrograde	1630 Nov 12 19:05	9°♄12'20		retrograde	1631 Oct 27 09:39	23°♄21'24	
evening set	1630 Nov 17 16:11	7°♄11'44		evening set	1631 Nov 01 20:39	21°♄04'07	
asc. node	1630 Nov 20 07:30	4°♄26'34		min. Earth dist.	1631 Nov 06 12:34	15°♄43'49	0.67510 AU
min. Earth dist.	1630 Nov 22 16:42	1°♄17'57	0.67785 AU	inferior conj	1631 Nov 07 07:25	14°♄40'45	0°02'28
inferior conj	1630 Nov 23 01:06	0°♄49'04	0°55'42	minimum elong	1631 Nov 07 07:21	14°♄40'58	0°02'26
minimum elong	1630 Nov 22 23:50	0°♄53'26	0°55'10	transit middle	1631 Nov 07 07:21	14°♄40'58	0°02'26
	1630 Nov 23 15:24	30°♄		transit begin	1631 Nov 07 04:38	14°♄50'02	
morning rise	1630 Nov 28 07:24	24°♄40'17		transit end	1631 Nov 07 10:04	14°♄31'53	
direct	1630 Dec 02 14:20	22°♄58'31		asc. node	1631 Nov 07 04:33	14°♄50'19	
morning max el	1630 Dec 11 07:30	28°♄04'05	21°25'19	morning rise	1631 Nov 12 18:06	8°♄37'32	
	1630 Dec 13 03:09	0°♄		direct	1631 Nov 16 11:59	7°♄17'03	
desc. node	1630 Dec 28 20:35	21°♄05'38		morning max el	1631 Nov 24 05:38	11°♄43'17	20°11'34
	1631 Jan 03 19:38	0°♄			1631 Dec 08 03:25	0°♄	
morning set	1631 Jan 11 15:31	12°♄07'33		desc. node	1631 Dec 15 17:39	11°♄22'54	
max. Earth dist.	1631 Jan 18 16:52	23°♄30'14	1.42072 AU	morning set	1631 Dec 21 12:33	20°♄15'32	
	1631 Jan 22 14:23	0°♄			1631 Dec 27 18:20	0°♄	
superior conj	1631 Jan 26 03:20	6°♄02'48	-2°04'28	max. Earth dist.	1632 Jan 01 01:12	6°♄48'33	1.43727 AU
minimum elong	1631 Jan 26 03:18	6°♄02'37	2°04'28				

superior conj	1632 Jan 06 18:49	16°☿06'28	-1°55'57	desc. node	1632 Dec 01 14:41	1°♄53'33	
minimum elong	1632 Jan 06 13:29	15°☿44'35	1°55'40	max. Earth dist.	1632 Dec 13 16:22	20°♄47'46	1.44788 AU
	1632 Jan 15 01:46	0°♊					
evening rise	1632 Jan 19 14:31	7°♊48'06		superior conj	1632 Dec 16 09:06	25°♄03'44	-1°28'37
	1632 Feb 02 00:18	0°♋		minimum elong	1632 Dec 16 00:21	24°♄29'04	1°27'44
asc. node	1632 Feb 03 03:51	1°♋34'43			1632 Dec 19 11:34	0°♌	
evening max el	1632 Feb 06 07:56	5°♋18'18	18°10'36	evening rise	1632 Dec 31 01:30	18°♌47'53	
retrograde	1632 Feb 12 19:11	8°♋43'17			1633 Jan 06 20:38	0°♍	
evening set	1632 Feb 15 15:37	8°♋01'58		evening max el	1633 Jan 19 20:09	18°♍41'04	18°30'41
inferior conj	1632 Feb 21 20:42	2°♋48'14	3°44'29	asc. node	1633 Jan 20 00:54	18°♍53'01	
minimum elong	1632 Feb 21 20:55	2°♋47'39	3°44'30	retrograde	1633 Jan 26 09:29	22°♍17'30	
min. Earth dist.	1632 Feb 24 14:18	29°♋54'42	0.62756 AU	evening set	1633 Jan 29 11:18	21°♍24'52	
	1632 Feb 24 12:14	30°♋		inferior conj	1633 Feb 04 07:35	15°♍52'18	3°39'05
morning rise	1632 Feb 28 01:08	26°♋47'31		minimum elong	1633 Feb 04 06:12	15°♍56'22	3°38'58
direct	1632 Mar 06 00:14	24°♋09'01		min. Earth dist.	1633 Feb 06 09:43	13°♍25'07	0.64538 AU
desc. node	1632 Mar 12 16:47	26°♋13'16		morning rise	1633 Feb 10 00:36	9°♍44'47	
	1632 Mar 17 18:37	0°♌		direct	1633 Feb 16 20:28	6°♍53'51	
morning max el	1632 Mar 19 23:18	2°♌04'21	27°47'56	desc. node	1633 Feb 27 13:51	12°♍07'46	
	1632 Apr 09 13:54	0°♍		morning max el	1633 Mar 02 08:23	14°♍43'34	27°20'47
morning set	1632 Apr 22 23:35	24°♍36'48			1633 Mar 14 19:37	0°♎	
	1632 Apr 25 14:38	0°♏			1633 Apr 02 05:50	0°♏	
max. Earth dist.	1632 Apr 28 11:09	6°♏01'36	1.32730 AU	morning set	1633 Apr 06 16:03	8°♏24'54	
				max. Earth dist.	1633 Apr 11 10:36	18°♏00'37	1.33615 AU
superior conj	1632 Apr 30 13:34	10°♏32'47	-0°06'00				
minimum elong	1632 Apr 30 13:51	10°♏34'20	0°05'56	superior conj	1633 Apr 14 18:20	24°♏57'28	-0°33'35
behind sun begin	1632 Apr 30 09:00	10°♏08'01		minimum elong	1633 Apr 14 20:00	25°♏06'20	0°33'15
behind sun end	1632 Apr 30 18:43	11°♏00'39			1633 Apr 17 03:12	0°♐	
asc. node	1632 May 01 03:10	11°♏46'27		asc. node	1633 Apr 18 00:12	1°♐52'10	
evening rise	1632 May 07 13:22	25°♏38'45		evening rise	1633 Apr 22 00:30	10°♐23'37	
	1632 May 09 15:21	0°♑			1633 May 02 05:55	0°♑	
	1632 May 27 18:20	0°♒		evening max el	1633 May 13 04:19	14°♑33'08	22°10'57
evening max el	1632 May 31 12:06	4°♒01'28	23°46'35	retrograde	1633 May 26 00:09	20°♑52'50	
desc. node	1632 Jun 08 16:01	9°♒44'11		desc. node	1633 May 26 13:03	20°♑52'11	
retrograde	1632 Jun 14 05:28	10°♒54'21		evening set	1633 May 28 20:06	20°♑35'06	
evening set	1632 Jun 18 09:20	10°♒16'14		min. Earth dist.	1633 Jun 06 10:21	16°♑54'16	0.55111 AU
min. Earth dist.	1632 Jun 24 22:44	7°♒10'17	0.56142 AU	inferior conj	1633 Jun 07 04:59	16°♑28'05	-3°11'18
inferior conj	1632 Jun 27 05:20	5°♒47'34	-4°27'11	minimum elong	1633 Jun 06 21:18	16°♑38'53	3°09'05
minimum elong	1632 Jun 26 23:22	5°♒56'39	4°26'13	morning rise	1633 Jun 16 00:14	12°♑35'27	
morning rise	1632 Jul 05 16:03	1°♒50'02		direct	1633 Jun 19 00:04	12°♑15'22	
direct	1632 Jul 08 09:20	1°♒31'15		morning max el	1633 Jun 30 17:45	17°♑44'12	21°22'46
morning max el	1632 Jul 18 11:49	6°♒12'12	19°59'52		1633 Jul 10 08:46	0°♓	
asc. node	1632 Jul 28 02:26	18°♒59'28		asc. node	1633 Jul 14 23:30	8°♓01'22	
	1632 Aug 03 01:19	0°♓		morning set	1633 Jul 20 22:00	19°♓47'39	
morning set	1632 Aug 05 13:39	5°♓01'59			1633 Jul 25 18:56	0°♔	
superior conj	1632 Aug 13 08:26	20°♓51'14	1°45'59	superior conj	1633 Jul 28 06:34	5°♓11'32	1°41'50
minimum elong	1632 Aug 13 08:20	20°♓50'46	1°45'59	minimum elong	1633 Jul 28 05:08	5°♓04'06	1°41'45
	1632 Aug 18 00:26	0°♕		max. Earth dist.	1633 Aug 01 08:16	13°♓30'18	1.35201 AU
max. Earth dist.	1632 Aug 18 20:58	1°♕37'47	1.36916 AU	evening rise	1633 Aug 05 15:59	21°♓56'36	
evening rise	1632 Aug 22 17:29	8°♕46'50			1633 Aug 10 00:37	0°♖	
	1632 Sep 04 08:14	0°♗		desc. node	1633 Aug 22 12:24	20°♖34'20	
desc. node	1632 Sep 04 15:23	0°♗27'48			1633 Aug 29 02:58	0°♗	
	1632 Sep 27 03:38	0°♘		evening max el	1633 Sep 10 00:55	13°♗59'31	26°40'37
evening max el	1632 Sep 27 12:42	0°♘22'17	25°42'25	retrograde	1633 Sep 23 00:10	21°♗13'38	
retrograde	1632 Oct 09 19:30	7°♘23'46		evening set	1633 Sep 29 14:57	18°♗31'43	
evening set	1632 Oct 15 20:55	4°♘51'50		min. Earth dist.	1633 Oct 03 15:50	14°♗23'35	0.65956 AU
min. Earth dist.	1632 Oct 20 05:06	0°♘06'55	0.66907 AU	inferior conj	1633 Oct 05 09:25	12°♗20'02	-1°51'54
	1632 Oct 20 07:17	30°♙		minimum elong	1633 Oct 05 12:23	12°♗11'13	1°50'42
inferior conj	1632 Oct 21 10:51	28°♙32'12	-0°53'57	asc. node	1633 Oct 10 22:42	6°♙53'35	
minimum elong	1632 Oct 21 12:14	28°♙27'45	0°53'20	morning rise	1633 Oct 11 10:23	6°♙36'38	
asc. node	1632 Oct 24 01:38	25°♙21'47		direct	1633 Oct 14 08:17	5°♙49'15	
morning rise	1632 Oct 27 03:49	22°♙37'19		morning max el	1633 Oct 20 23:16	9°♙26'55	18°28'06
direct	1632 Oct 30 10:36	21°♙35'10			1633 Nov 04 09:37	0°♚	
morning max el	1632 Nov 06 11:24	25°♙32'01	19°11'53	morning set	1633 Nov 09 19:54	8°♚43'34	
	1632 Nov 10 07:56	0°♛		desc. node	1633 Nov 18 11:42	22°♚33'27	
morning set	1632 Nov 29 15:34	28°♛49'59			1633 Nov 23 04:46	0°♜	
	1632 Nov 30 09:32	0°♞					

superior conj	1633 Nov 25 10:22	3°♊30'51	-0°45'13	morning set	1634 Oct 22 05:01	20°♏01'32	
minimum elong	1633 Nov 25 04:33	3°♊08'00	0°44'28		1634 Oct 28 04:23	0°♏	
max. Earth dist.	1633 Nov 26 11:17	5°♊08'45	1.45131 AU				
evening rise	1633 Dec 11 13:03	28°♊50'50		superior conj	1634 Nov 04 20:06	12°♏28'06	0°03'33
	1633 Dec 12 06:34	0°♊		minimum elong	1634 Nov 04 20:32	12°♏29'50	0°03'29
greatest brilliancy	1633 Dec 21 06:47	14°♊11'15	-0.8m	behind sun begin	1634 Nov 04 10:14	11°♏48'27	
	1634 Jan 01 07:31	0°♊		behind sun end	1634 Nov 05 06:50	13°♏11'08	
evening max el	1634 Jan 03 05:44	2°♊08'46	19°08'19	desc. node	1634 Nov 05 08:43	13°♏18'43	
asc. node	1634 Jan 06 21:57	5°♊08'45		max. Earth dist.	1634 Nov 09 06:04	19°♏30'06	1.44733 AU
retrograde	1634 Jan 10 04:58	6°♊07'16			1634 Nov 15 22:45	0°♊	
evening set	1634 Jan 13 13:08	5°♊02'20		evening rise	1634 Nov 21 04:36	8°♊07'25	
	1634 Jan 18 12:40	30°♋♊		greatest brilliancy	1634 Dec 05 06:42	29°♊32'02	-0.6m
inferior conj	1634 Jan 19 03:27	29°♊13'15	3°19'21		1634 Dec 05 14:17	0°♊	
minimum elong	1634 Jan 19 01:07	29°♊20'39	3°18'54	evening max el	1634 Dec 17 10:46	15°♊37'43	20°01'49
min. Earth dist.	1634 Jan 20 14:20	27°♊22'24	0.65935 AU	asc. node	1634 Dec 24 19:00	20°♊06'21	
morning rise	1634 Jan 24 12:50	23°♊01'46		retrograde	1634 Dec 25 02:40	20°♊06'55	
direct	1634 Jan 30 23:06	20°♊12'26		evening set	1634 Dec 28 18:43	18°♊48'19	
morning max el	1634 Feb 12 18:13	27°♊45'39	26°24'16	inferior conj	1635 Jan 03 05:20	12°♊45'33	2°48'49
desc. node	1634 Feb 14 10:53	29°♊31'41		minimum elong	1635 Jan 03 02:40	12°♊54'28	2°48'05
	1634 Feb 14 21:19	0°♊		min. Earth dist.	1635 Jan 04 02:26	11°♊34'51	0.66930 AU
	1634 Mar 08 12:27	0°♋		morning rise	1635 Jan 08 10:25	6°♊32'17	
morning set	1634 Mar 20 20:30	21°♋33'18		direct	1635 Jan 14 07:26	3°♊55'18	
max. Earth dist.	1634 Mar 24 23:04	29°♋27'07	1.34953 AU	morning max el	1635 Jan 26 03:04	10°♊58'10	25°07'20
	1634 Mar 25 05:45	0°♌		desc. node	1635 Feb 01 07:55	17°♊58'34	
					1635 Feb 10 07:39	0°♊	
superior conj	1634 Mar 29 16:37	8°♌58'07	-1°01'11		1635 Mar 01 04:38	0°♋	
minimum elong	1634 Mar 29 19:40	9°♌13'45	1°00'38	morning set	1635 Mar 03 07:59	3°♋47'27	
asc. node	1634 Apr 04 21:15	21°♌50'04		max. Earth dist.	1635 Mar 07 00:07	10°♋29'51	1.36718 AU
evening rise	1634 Apr 06 09:00	24°♌55'21					
	1634 Apr 08 20:49	0°♌		superior conj	1635 Mar 13 05:30	22°♋26'13	-1°27'01
evening max el	1634 Apr 25 05:23	25°♌28'22	20°44'45	minimum elong	1635 Mar 13 09:32	22°♋46'09	1°26'26
	1634 May 01 18:11	0°♌			1635 Mar 17 00:25	0°♌	
retrograde	1634 May 06 13:14	0°♌58'35		evening rise	1635 Mar 21 12:38	9°♌06'45	
evening set	1634 May 08 16:18	0°♌47'41		asc. node	1635 Mar 22 18:17	11°♌35'17	
	1634 May 11 14:34	30°♌♌			1635 Apr 02 00:56	0°♌	
desc. node	1634 May 13 10:04	29°♌14'44		evening max el	1635 Apr 07 18:12	7°♌02'36	19°35'41
inferior conj	1634 May 17 22:44	26°♌49'50	-1°18'48	retrograde	1635 Apr 17 08:40	11°♌40'31	
minimum elong	1634 May 17 19:00	26°♌55'10	1°17'27	evening set	1635 Apr 19 09:58	11°♌28'44	
min. Earth dist.	1634 May 18 22:48	26°♌15'24	0.54989 AU	inferior conj	1635 Apr 28 01:20	7°♌24'44	0°38'28
morning rise	1634 May 26 21:11	22°♌42'28		minimum elong	1635 Apr 28 02:58	7°♌22'08	0°37'54
direct	1634 May 30 09:43	22°♌15'45		desc. node	1635 Apr 30 07:04	5°♌59'31	
morning max el	1634 Jun 12 13:51	28°♌36'11	23°00'28	min. Earth dist.	1635 Apr 30 13:12	5°♌50'01	0.55818 AU
	1634 Jun 13 23:59	0°♌		morning rise	1635 May 06 17:18	2°♌46'18	
asc. node	1634 Jul 01 20:31	27°♌29'04		direct	1635 May 11 03:50	2°♌02'01	
	1634 Jul 03 02:30	0°♍		morning max el	1635 May 25 04:45	9°♌05'46	24°42'04
morning set	1634 Jul 05 08:57	4°♍41'32			1635 Jun 09 16:46	0°♌	
				asc. node	1635 Jun 18 17:33	17°♌15'46	
superior conj	1634 Jul 12 11:25	19°♍52'02	1°31'35	morning set	1635 Jun 19 20:48	19°♌38'32	
minimum elong	1634 Jul 12 09:13	19°♍40'18	1°31'22		1635 Jun 24 16:13	0°♍	
max. Earth dist.	1634 Jul 15 04:37	25°♍36'59	1.33855 AU				
	1634 Jul 17 07:22	0°♍		superior conj	1635 Jun 26 20:31	4°♍44'59	1°16'24
evening rise	1634 Jul 20 04:12	5°♍46'41		minimum elong	1635 Jun 26 18:05	4°♍31'48	1°16'03
	1634 Aug 02 16:01	0°♎		max. Earth dist.	1635 Jun 28 09:18	8°♍04'30	1.32914 AU
desc. node	1634 Aug 09 09:24	10°♎14'27		evening rise	1635 Jul 04 02:18	20°♍06'17	
evening max el	1634 Aug 23 12:43	27°♎24'04	27°16'57		1635 Jul 09 02:56	0°♍	
	1634 Aug 26 11:16	0°♎		desc. node	1635 Jul 27 06:24	29°♍17'09	
retrograde	1634 Sep 05 23:16	4°♎42'50			1635 Jul 27 19:24	0°♎	
evening set	1634 Sep 13 00:09	1°♎59'00		evening max el	1635 Aug 05 22:35	10°♎24'30	27°25'00
	1634 Sep 15 06:08	30°♎♎		retrograde	1635 Aug 19 16:20	17°♎42'23	
min. Earth dist.	1634 Sep 16 18:34	28°♎26'53	0.64643 AU	evening set	1635 Aug 26 21:19	15°♎08'25	
inferior conj	1634 Sep 19 00:50	25°♎59'18	-2°49'16	min. Earth dist.	1635 Aug 30 11:39	12°♎07'14	0.62984 AU
minimum elong	1634 Sep 19 05:14	25°♎47'20	2°47'44	inferior conj	1635 Sep 02 06:25	9°♎24'13	-3°42'43
morning rise	1634 Sep 25 11:15	20°♎30'31		minimum elong	1635 Sep 02 11:38	9°♎11'26	3°41'18
asc. node	1634 Sep 27 19:45	19°♎54'40		morning rise	1635 Sep 09 03:18	4°♎13'13	
direct	1634 Sep 28 02:35	19°♎54'14		direct	1635 Sep 11 14:43	3°♎44'39	
morning max el	1634 Oct 04 14:41	23°♎21'57	18°01'08	asc. node	1635 Sep 14 16:46	4°♎30'04	
	1634 Oct 09 21:31	0°♎		morning max el	1635 Sep 18 06:44	7°♎10'39	17°51'51

	1635 Oct 03 04:23	0°♄		morning max el	1636 Aug 31 20:20	20°♄44'29	18°01'17
morning set	1635 Oct 04 14:05	2°♄28'42			1636 Sep 07 19:32	0°♄	
				morning set	1636 Sep 16 16:47	15°♄46'05	
superior conj	1635 Oct 16 06:01	22°♄38'08	0°46'13		1636 Sep 24 11:21	0°♄	
minimum elong	1635 Oct 16 10:11	22°♄55'36	0°45'41				
	1635 Oct 20 16:56	0°♄		superior conj	1636 Sep 26 18:48	4°♄06'42	1°17'24
max. Earth dist.	1635 Oct 22 21:50	3°♄34'28	1.43655 AU	minimum elong	1636 Sep 26 23:14	4°♄26'14	1°16'55
desc. node	1635 Oct 23 05:45	4°♄06'19		max. Earth dist.	1636 Oct 04 08:58	17°♄07'16	1.42031 AU
evening rise	1635 Oct 31 12:40	17°♄10'32		desc. node	1636 Oct 09 02:46	24°♄52'29	
	1635 Nov 08 22:49	0°♄		evening rise	1636 Oct 10 06:26	26°♄43'13	
evening max el	1635 Nov 30 10:20	29°♄07'56	21°08'31		1636 Oct 12 08:09	0°♄	
	1635 Dec 01 07:18	0°♄			1636 Nov 01 18:02	0°♄	
retrograde	1635 Dec 09 00:17	4°♄13'28		evening max el	1636 Nov 12 04:33	12°♄39'51	22°24'33
asc. node	1635 Dec 11 16:01	3°♄34'07		retrograde	1636 Nov 21 20:05	18°♄23'53	
evening set	1635 Dec 13 02:08	2°♄39'37		evening set	1636 Nov 26 09:42	16°♄33'19	
	1635 Dec 15 17:57	30°♄♂		asc. node	1636 Nov 27 13:03	15°♄30'38	
inferior conj	1635 Dec 18 10:54	26°♄26'27	2°09'55	inferior conj	1636 Dec 01 18:11	10°♄13'14	1°24'24
minimum elong	1635 Dec 18 08:27	26°♄34'55	2°09'05	minimum elong	1636 Dec 01 16:22	10°♄19'31	1°23'41
min. Earth dist.	1635 Dec 18 19:47	25°♄55'50	0.67545 AU	min. Earth dist.	1636 Dec 01 15:56	10°♄21'01	0.67797 AU
morning rise	1635 Dec 23 14:34	20°♄13'20		morning rise	1636 Dec 06 22:53	4°♄02'22	
direct	1635 Dec 28 20:47	17°♄55'41		direct	1636 Dec 11 14:10	2°♄07'16	
morning max el	1636 Jan 08 11:35	24°♄15'20	23°40'11	morning max el	1636 Dec 20 23:00	7°♄38'38	22°12'43
	1636 Jan 13 14:47	0°♄		desc. node	1637 Jan 05 02:02	26°♄54'46	
desc. node	1636 Jan 19 04:58	7°♄10'30			1637 Jan 07 05:23	0°♄	
	1636 Feb 03 18:33	0°♄		morning set	1637 Jan 23 04:11	24°♄30'30	
morning set	1636 Feb 12 20:20	14°♄50'38			1637 Jan 26 12:41	0°♄	
max. Earth dist.	1636 Feb 16 18:55	21°♄40'05	1.38794 AU	max. Earth dist.	1637 Jan 28 16:07	3°♄34'42	1.40934 AU
	1636 Feb 21 10:02	0°♄					
				superior conj	1637 Feb 05 11:07	17°♄04'34	-2°02'03
superior conj	1636 Feb 24 05:14	5°♄12'11	-1°48'30	minimum elong	1637 Feb 05 13:18	17°♄14'17	2°01'59
minimum elong	1636 Feb 24 09:17	5°♄31'12	1°48'08		1637 Feb 12 13:08	0°♄	
evening rise	1636 Mar 04 08:47	22°♄50'41		evening rise	1637 Feb 15 18:14	5°♄59'41	
	1636 Mar 08 02:02	0°♄		asc. node	1637 Feb 23 12:22	20°♄05'27	
asc. node	1636 Mar 08 15:19	1°♄02'27			1637 Mar 02 04:52	0°♄	
evening max el	1636 Mar 20 17:36	19°♄15'12	18°46'19	evening max el	1637 Mar 04 00:35	1°♄58'26	18°16'59
retrograde	1636 Mar 28 20:22	23°♄12'05		retrograde	1637 Mar 11 03:09	5°♄31'00	
evening set	1636 Mar 31 02:52	22°♄54'43		evening set	1637 Mar 13 15:34	5°♄05'20	
inferior conj	1636 Apr 07 22:46	18°♄33'59	2°11'35	inferior conj	1637 Mar 20 17:28	0°♄23'42	3°10'35
minimum elong	1636 Apr 08 02:47	18°♄26'33	2°10'26	minimum elong	1637 Mar 20 20:48	0°♄16'30	3°09'59
min. Earth dist.	1636 Apr 11 06:06	16°♄08'49	0.57421 AU		1637 Mar 21 04:25	30°♄♂	
morning rise	1636 Apr 15 23:35	13°♄22'07		min. Earth dist.	1637 Mar 24 03:27	27°♄28'29	0.59465 AU
desc. node	1636 Apr 16 04:07	13°♄17'11		morning rise	1637 Mar 27 23:39	24°♄45'49	
direct	1636 Apr 21 12:04	12°♄07'31		direct	1637 Apr 03 09:07	22°♄54'34	
morning max el	1636 May 05 20:16	19°♄38'44	26°12'38	desc. node	1637 Apr 03 01:10	22°♄54'51	
	1636 May 14 15:27	0°♄			1637 Apr 17 00:08	0°♄	
	1636 Jun 01 03:24	0°♄		morning max el	1637 Apr 17 16:59	0°♄40'38	27°17'38
morning set	1636 Jun 03 07:56	4°♄32'26			1637 May 08 16:39	0°♄	
asc. node	1636 Jun 04 14:34	7°♄14'58		morning set	1637 May 18 16:42	19°♄17'49	
				asc. node	1637 May 22 11:38	27°♄21'56	
					1637 May 23 16:40	0°♄	
superior conj	1636 Jun 10 07:48	19°♄42'41	0°57'10				
minimum elong	1636 Jun 10 05:39	19°♄30'48	0°56'46	superior conj	1637 May 25 19:34	4°♄39'10	0°34'35
max. Earth dist.	1636 Jun 10 19:40	20°♄47'52	1.32372 AU	minimum elong	1637 May 25 18:05	4°♄31'03	0°34'17
	1636 Jun 15 01:16	0°♄		max. Earth dist.	1637 May 25 08:10	3°♄36'30	1.32213 AU
evening rise	1636 Jun 17 07:11	4°♄44'56		evening rise	1637 Jun 01 16:24	19°♄34'37	
	1636 Jun 30 19:29	0°♄			1637 Jun 06 19:20	0°♄	
desc. node	1636 Jul 13 03:25	17°♄26'04			1637 Jun 25 22:49	0°♄	
evening max el	1636 Jul 18 04:04	22°♄47'40	27°00'29	evening max el	1637 Jun 30 02:50	4°♄24'43	26°03'23
	1636 Jul 31 05:08	0°♄		desc. node	1637 Jun 30 00:25	4°♄18'58	
retrograde	1636 Aug 01 02:06	0°♄02'00		retrograde	1637 Jul 14 02:55	11°♄35'11	
	1636 Aug 01 22:57	30°♄♂		evening set	1637 Jul 20 09:51	9°♄59'25	
evening set	1636 Aug 08 02:07	27°♄51'24		min. Earth dist.	1637 Jul 24 15:27	7°♄22'17	0.58992 AU
min. Earth dist.	1636 Aug 11 18:20	25°♄10'22	0.61049 AU	inferior conj	1637 Jul 27 22:34	4°♄54'38	-4°53'15
inferior conj	1636 Aug 14 22:51	22°♄25'51	-4°26'57	minimum elong	1637 Jul 28 00:29	4°♄51'03	4°53'08
minimum elong	1636 Aug 15 03:32	22°♄15'42	4°26'08	morning rise	1637 Aug 04 17:17	0°♄27'07	
morning rise	1636 Aug 22 06:42	17°♄35'30		direct	1637 Aug 07 04:59	0°♄06'17	
direct	1636 Aug 24 16:55	17°♄11'50		morning max el	1637 Aug 15 04:23	3°♄55'13	18°30'45
asc. node	1636 Aug 31 13:48	20°♄28'53					

































































































































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morning set	1637 Aug 31 08:02	29°Ω39'45		asc. node	1638 Aug 05 07:56	25°Ω38'14	
	1637 Aug 31 12:14	0°♊			1638 Aug 07 23:05	0°Ω	
				morning set	1638 Aug 15 08:04	13°Ω59'41	
superior conj	1637 Sep 09 06:19	16°♊42'29	1°36'30				
minimum elong	1637 Sep 09 09:11	16°♊55'47	1°36'17	superior conj	1638 Aug 23 11:00	0°♊10'04	1°45'04
max. Earth dist.	1637 Sep 16 15:11	29°♊58'27	1.40069 AU	minimum elong	1638 Aug 23 11:54	0°♊14'31	1°45'02
	1637 Sep 16 15:32	0°♊			1638 Aug 23 08:56	0°♊	
evening rise	1637 Sep 20 21:47	7°♊15'42		max. Earth dist.	1638 Aug 29 18:50	12°♊09'37	1.38021 AU
desc. node	1637 Sep 25 23:48	15°♊33'39		evening rise	1638 Sep 02 13:19	18°♊56'10	
	1637 Oct 05 10:02	0°♊			1638 Sep 09 01:38	0°♊	
evening max el	1637 Oct 25 18:39	26°♊14'11	23°44'33	desc. node	1638 Sep 12 20:48	6°♊05'49	
	1637 Oct 30 02:14	0°♊			1638 Sep 29 14:56	0°♊	
retrograde	1637 Nov 05 12:45	2°♊34'36		evening max el	1638 Oct 08 06:41	9°♊51'51	25°01'58
evening set	1637 Nov 10 15:47	0°♊26'40		retrograde	1638 Oct 20 01:24	16°♊41'49	
	1637 Nov 11 03:48	30°♊		evening set	1638 Oct 25 18:41	14°♊17'35	
asc. node	1637 Nov 14 10:06	26°♊15'37		min. Earth dist.	1638 Oct 30 07:07	9°♊12'24	0.67291 AU
min. Earth dist.	1637 Nov 15 12:29	24°♊47'11	0.67710 AU	inferior conj	1638 Oct 31 06:37	7°♊55'14	-0°21'10
inferior conj	1637 Nov 16 01:20	24°♊03'26	0°33'35	minimum elong	1638 Oct 31 07:09	7°♊53'30	0°20'56
minimum elong	1637 Nov 16 00:32	24°♊06'08	0°33'15	asc. node	1638 Nov 01 07:09	6°♊35'27	
morning rise	1637 Nov 21 09:16	17°♊56'58		morning rise	1638 Nov 05 19:46	1°♊55'30	
direct	1637 Nov 25 10:31	16°♊24'29		direct	1638 Nov 09 08:38	0°♊43'24	
morning max el	1637 Dec 03 16:44	21°♊11'38	20°52'29	morning max el	1638 Nov 16 18:20	4°♊55'49	19°44'26
	1637 Dec 11 01:15	0°♊		greatest brilliancy	1638 Nov 30 02:35	22°♊38'29	-0.7m
desc. node	1637 Dec 22 23:04	17°♊01'48			1638 Dec 04 23:46	0°♊	
	1637 Dec 31 11:46	0°♊		desc. node	1638 Dec 09 20:07	7°♊25'22	
morning set	1638 Jan 02 09:32	2°♊57'52		morning set	1638 Dec 12 05:58	11°♊08'27	
max. Earth dist.	1638 Jan 10 20:39	16°♊26'00	1.42839 AU		1638 Dec 24 07:13	0°♊	
				max. Earth dist.	1638 Dec 24 08:23	0°♊04'35	1.44255 AU
superior conj	1638 Jan 17 17:44	27°♊49'49	-2°03'01				
minimum elong	1638 Jan 17 15:34	27°♊40'39	2°02'59	superior conj	1638 Dec 28 21:52	7°♊22'51	-1°46'42
	1638 Jan 19 00:26	0°♊		minimum elong	1638 Dec 28 14:30	6°♊53'10	1°46'09
evening rise	1638 Jan 29 13:00	18°♊24'31		evening rise	1639 Jan 11 12:46	29°♊57'22	
	1638 Feb 05 02:26	0°♊			1639 Jan 11 13:23	0°♊	
asc. node	1638 Feb 10 09:25	8°♊35'48		asc. node	1639 Jan 28 06:28	26°♊23'49	
evening max el	1638 Feb 15 11:48	15°♊02'17	18°07'19	evening max el	1639 Jan 30 00:23	28°♊19'46	18°16'49
retrograde	1638 Feb 22 01:49	18°♊26'21			1639 Jan 31 21:30	0°♊	
evening set	1638 Feb 24 19:21	17°♊51'02		retrograde	1639 Feb 05 11:39	1°♊48'35	
inferior conj	1638 Mar 03 06:55	12°♊48'24	3°39'06	evening set	1639 Feb 08 10:11	1°♊02'41	
minimum elong	1638 Mar 03 08:17	12°♊45'00	3°39'00		1639 Feb 10 01:24	30°♊	
min. Earth dist.	1638 Mar 06 08:10	9°♊47'51	0.61597 AU	inferior conj	1639 Feb 14 11:08	25°♊40'36	3°44'14
morning rise	1638 Mar 09 19:45	6°♊53'41		minimum elong	1639 Feb 14 10:36	25°♊42'06	3°44'13
direct	1638 Mar 16 16:33	4°♊29'29		min. Earth dist.	1639 Feb 16 22:16	22°♊56'26	0.63555 AU
desc. node	1638 Mar 20 22:14	5°♊19'14		morning rise	1639 Feb 20 10:13	19°♊36'09	
morning max el	1638 Mar 30 20:07	12°♊23'20	27°47'41	direct	1639 Feb 27 08:41	16°♊50'37	
	1638 Apr 13 19:18	0°♊		desc. node	1639 Mar 07 19:18	20°♊07'19	
	1638 May 01 00:07	0°♊		morning max el	1639 Mar 13 04:00	24°♊45'23	27°40'26
morning set	1638 May 02 21:09	3°♊47'29			1639 Mar 17 22:41	0°♊	
max. Earth dist.	1638 May 08 18:46	16°♊16'03	1.32431 AU		1639 Apr 07 05:00	0°♊	
asc. node	1638 May 09 08:42	17°♊31'38		morning set	1639 Apr 16 18:53	17°♊53'49	
				max. Earth dist.	1639 Apr 21 23:23	28°♊32'55	1.33054 AU
superior conj	1638 May 10 06:03	19°♊27'58	0°09'24		1639 Apr 22 15:51	0°♊	
minimum elong	1638 May 10 05:37	19°♊25'35	0°09'18				
behind sun begin	1638 May 10 01:27	19°♊02'51		superior conj	1639 Apr 24 13:30	4°♊03'26	-0°17'37
behind sun end	1638 May 10 09:47	19°♊48'19		minimum elong	1639 Apr 24 14:21	4°♊08'04	0°17'26
	1638 May 15 01:56	0°♊		asc. node	1639 Apr 26 05:45	7°♊40'03	
evening rise	1638 May 17 03:49	4°♊27'24		evening rise	1639 May 01 15:35	19°♊16'56	
	1638 May 30 19:18	0°♊			1639 May 06 22:01	0°♊	
evening max el	1638 Jun 11 18:48	15°♊17'56	24°40'34	evening max el	1639 May 24 08:45	25°♊48'34	23°05'21
desc. node	1638 Jun 16 21:27	19°♊25'32			1639 May 29 15:47	0°♊	
retrograde	1638 Jun 25 17:11	22°♊21'19		desc. node	1639 Jun 03 18:29	2°♊09'38	
evening set	1638 Jun 30 18:01	21°♊24'02		retrograde	1639 Jun 06 19:17	2°♊30'36	
min. Earth dist.	1638 Jul 06 05:59	18°♊32'49	0.57060 AU	evening set	1639 Jun 10 08:09	2°♊03'09	
inferior conj	1638 Jul 09 02:36	16°♊41'32	-4°48'57		1639 Jun 15 10:55	30°♊	
minimum elong	1638 Jul 08 23:31	16°♊46'34	4°48'41	min. Earth dist.	1639 Jun 17 18:06	28°♊43'45	0.55600 AU
morning rise	1638 Jul 17 07:45	12°♊35'31		inferior conj	1639 Jun 19 11:05	27°♊44'04	-4°00'45
direct	1638 Jul 19 22:38	12°♊16'22		minimum elong	1639 Jun 19 03:42	27°♊54'51	3°59'07

morning rise	1639 Jun 28 01:49	23° Π 50'49		minimum elong	1640 May 29 00:09	8° Π 23'31	2°24'25
direct	1639 Jun 30 21:09	23° Π 32'03		min. Earth dist.	1640 May 29 06:24	8° Π 14'45	0.54938 AU
morning max el	1639 Jul 11 16:36	28° Π 32'22	20°32'58	morning rise	1640 Jun 07 04:12	4° Π 17'28	
	1639 Jul 13 04:06	0° \mathfrak{C}		direct	1640 Jun 10 08:18	3° Π 55'29	
asc. node	1639 Jul 23 04:59	14° \mathfrak{C} 21'17		morning max el	1640 Jun 22 18:05	9° Π 47'14	22°02'54
morning set	1639 Jul 30 14:00	28° \mathfrak{C} 37'41			1640 Jul 07 04:08	0° \mathfrak{C}	
	1639 Jul 31 06:03	0° Ω		asc. node	1640 Jul 09 02:01	3° \mathfrak{C} 35'31	
				morning set	1640 Jul 13 23:42	13° \mathfrak{C} 27'51	
superior conj	1639 Aug 07 03:53	14° Ω 14'38	1°45'03				
minimum elong	1639 Aug 07 03:09	14° Ω 10'55	1°45'02	superior conj	1640 Jul 21 05:15	28° \mathfrak{C} 45'07	1°38'09
max. Earth dist.	1639 Aug 12 01:29	24° Ω 00'01	1.36137 AU	minimum elong	1640 Jul 21 03:25	28° \mathfrak{C} 35'30	1°38'01
	1639 Aug 15 05:00	0° \mathfrak{M}			1640 Jul 21 19:31	0° Ω	
evening rise	1639 Aug 16 01:52	1° \mathfrak{M} 37'07		max. Earth dist.	1640 Jul 24 16:24	5° Ω 56'42	1.34583 AU
desc. node	1639 Aug 30 17:48	26° \mathfrak{M} 23'27		evening rise	1640 Jul 29 06:49	15° Ω 06'23	
	1639 Sep 02 03:10	0° \mathfrak{A}			1640 Aug 06 10:03	0° \mathfrak{M}	
evening max el	1639 Sep 20 18:30	23° \mathfrak{A} 30'33	26°09'26	desc. node	1640 Aug 16 14:48	16° \mathfrak{M} 19'56	
	1639 Sep 29 22:50	0° \mathfrak{M}			1640 Aug 26 18:41	0° \mathfrak{A}	
retrograde	1639 Oct 03 09:18	0° \mathfrak{M} 39'33		evening max el	1640 Sep 02 06:48	7° \mathfrak{A} 04'12	26°59'10
	1639 Oct 06 14:24	30° \mathfrak{R} \mathfrak{A}		retrograde	1640 Sep 15 11:44	14° \mathfrak{A} 21'15	
evening set	1639 Oct 09 16:33	28° \mathfrak{A} 02'27		evening set	1640 Sep 22 07:09	11° \mathfrak{A} 37'36	
min. Earth dist.	1639 Oct 13 21:29	23° \mathfrak{A} 33'04	0.66538 AU	min. Earth dist.	1640 Sep 26 05:13	7° \mathfrak{A} 44'43	0.65441 AU
inferior conj	1639 Oct 15 08:12	21° \mathfrak{A} 45'23	-1°18'27	inferior conj	1640 Sep 28 04:02	5° \mathfrak{A} 30'19	-2°16'28
minimum elong	1639 Oct 15 10:16	21° \mathfrak{A} 39'00	1°17'36	minimum elong	1640 Sep 28 07:39	5° \mathfrak{A} 19'56	2°15'06
asc. node	1639 Oct 19 04:12	17° \mathfrak{A} 26'49		morning rise	1640 Oct 04 08:51	29° \mathfrak{M} 52'26	
morning rise	1639 Oct 21 04:23	15° \mathfrak{A} 55'02			1640 Oct 04 03:03	30° \mathfrak{R} \mathfrak{M}	
direct	1639 Oct 24 06:59	14° \mathfrak{A} 59'48		asc. node	1640 Oct 05 01:15	29° \mathfrak{M} 34'20	
morning max el	1639 Oct 31 02:58	18° \mathfrak{A} 47'43	18°51'15	direct	1640 Oct 07 03:37	29° \mathfrak{M} 10'13	
	1639 Nov 08 17:57	0° \mathfrak{M}			1640 Oct 10 05:07	0° \mathfrak{A}	
morning set	1639 Nov 21 18:12	20° \mathfrak{M} 12'06		morning max el	1640 Oct 13 16:36	2° \mathfrak{A} 42'52	18°14'25
desc. node	1639 Nov 26 17:07	28° \mathfrak{M} 00'02		morning set	1640 Nov 01 11:01	0° \mathfrak{M} 42'15	
	1639 Nov 27 23:39	0° \mathfrak{X}			1640 Nov 01 00:41	0° \mathfrak{M}	
max. Earth dist.	1639 Dec 07 00:52	14° \mathfrak{X} 12'39	1.45018 AU	desc. node	1640 Nov 12 14:06	18° \mathfrak{M} 42'07	
superior conj	1639 Dec 08 04:17	16° \mathfrak{X} 00'30	-1°11'40	superior conj	1640 Nov 16 06:25	24° \mathfrak{M} 32'35	-0°24'25
minimum elong	1639 Dec 07 19:59	15° \mathfrak{X} 27'51	1°10'44	minimum elong	1640 Nov 16 03:16	24° \mathfrak{M} 20'06	0°23'59
	1639 Dec 17 00:22	0° \mathfrak{Z}		max. Earth dist.	1640 Nov 18 19:44	28° \mathfrak{M} 34'17	1.45052 AU
evening rise	1639 Dec 23 13:43	10° \mathfrak{Z} 31'51			1640 Nov 19 17:32	0° \mathfrak{X}	
	1640 Jan 04 17:26	0° \mathfrak{A}		evening rise	1640 Dec 02 15:40	20° \mathfrak{X} 11'30	
evening max el	1640 Jan 13 11:42	11° \mathfrak{A} 44'49	18°44'41		1640 Dec 08 22:55	0° \mathfrak{Z}	
asc. node	1640 Jan 15 03:30	13° \mathfrak{A} 17'06		greatest brilliancy	1640 Dec 14 12:55	8° \mathfrak{Z} 35'37	-0.7m
retrograde	1640 Jan 20 04:30	15° \mathfrak{A} 29'38		evening max el	1640 Dec 26 19:34	25° \mathfrak{Z} 13'06	19°29'25
evening set	1640 Jan 23 08:46	14° \mathfrak{A} 32'05		asc. node	1641 Jan 01 00:32	29° \mathfrak{Z} 00'58	
inferior conj	1640 Jan 29 02:14	8° \mathfrak{A} 52'26	3°32'14	retrograde	1641 Jan 03 01:03	29° \mathfrak{Z} 23'26	
minimum elong	1640 Jan 29 00:22	8° \mathfrak{A} 58'07	3°31'59	evening set	1641 Jan 06 12:25	28° \mathfrak{Z} 12'52	
min. Earth dist.	1640 Jan 30 21:52	6° \mathfrak{A} 39'31	0.65178 AU	inferior conj	1641 Jan 12 00:55	22° \mathfrak{Z} 17'54	3°07'33
morning rise	1640 Feb 03 15:33	2° \mathfrak{A} 42'48		minimum elong	1641 Jan 11 02:23	22° \mathfrak{Z} 26'10	3°06'58
	1640 Feb 08 17:30	30° \mathfrak{R} \mathfrak{Z}		min. Earth dist.	1641 Jan 13 05:49	20° \mathfrak{Z} 43'48	0.66407 AU
direct	1640 Feb 10 08:00	29° \mathfrak{Z} 50'37		morning rise	1641 Jan 17 08:07	16° \mathfrak{Z} 05'36	
	1640 Feb 11 23:42	0° \mathfrak{A}		direct	1641 Jan 23 13:13	13° \mathfrak{Z} 20'11	
desc. node	1640 Feb 22 16:20	6° \mathfrak{A} 43'15		morning max el	1641 Feb 04 22:50	20° \mathfrak{Z} 41'53	25°53'27
morning max el	1640 Feb 23 13:39	7° \mathfrak{A} 35'44	26°59'50	desc. node	1641 Feb 08 13:21	24° \mathfrak{Z} 35'58	
	1640 Mar 11 22:50	0° \mathfrak{X}			1641 Feb 12 23:47	0° \mathfrak{A}	
	1640 Mar 29 12:36	0° \mathfrak{Y}			1641 Mar 05 02:46	0° \mathfrak{X}	
morning set	1640 Mar 30 06:49	1° \mathfrak{Y} 27'15		morning set	1641 Mar 13 04:41	14° \mathfrak{X} 14'04	
max. Earth dist.	1640 Apr 03 18:12	10° \mathfrak{Y} 17'16	1.34121 AU	max. Earth dist.	1641 Mar 17 01:18	21° \mathfrak{X} 29'57	1.35651 AU
					1641 Mar 21 09:13	0° \mathfrak{Y}	
superior conj	1640 Apr 07 15:52	18° \mathfrak{Y} 19'26	-0°45'22				
minimum elong	1640 Apr 07 18:08	18° \mathfrak{Y} 31'19	0°44'55	superior conj	1641 Mar 22 10:33	2° \mathfrak{Y} 07'22	-1°12'29
asc. node	1640 Apr 12 02:47	27° \mathfrak{Y} 43'18		minimum elong	1641 Mar 22 14:05	2° \mathfrak{Y} 25'16	1°11'53
	1640 Apr 13 04:39	0° \mathfrak{X}		asc. node	1641 Mar 29 23:49	17° \mathfrak{Y} 36'19	
evening rise	1640 Apr 15 01:52	3° \mathfrak{X} 57'19		evening rise	1641 Mar 30 08:34	18° \mathfrak{Y} 21'03	
	1640 Apr 29 15:29	0° Π			1641 Apr 05 06:36	0° \mathfrak{X}	
evening max el	1640 May 05 04:17	6° Π 28'44	21°32'38	evening max el	1641 Apr 17 10:25	17° \mathfrak{X} 40'16	20°13'09
retrograde	1640 May 17 10:30	12° Π 28'35		retrograde	1641 Apr 28 00:15	22° \mathfrak{X} 47'01	
evening set	1640 May 19 20:50	12° Π 15'12		evening set	1641 Apr 30 01:24	22° \mathfrak{X} 36'21	
desc. node	1640 May 20 15:31	12° Π 05'29		desc. node	1641 May 07 12:33	19° \mathfrak{X} 33'23	
inferior conj	1640 May 29 06:42	8° Π 14'20	-2°26'35	inferior conj	1641 May 09 02:33	18° \mathfrak{X} 37'53	-0°27'38

minimum elong	1641 May 09 01:15	18° ♄ 39'47	0°27'10	minimum elong	1642 Apr 19 15:27	29° ♄ 19'55	1°20'53
min. Earth dist.	1641 May 10 19:30	17° ♄ 37'22	0.55236 AU	min. Earth dist.	1642 Apr 22 10:27	27° ♄ 27'33	0.56425 AU
morning rise	1641 May 17 23:32	14° ♄ 18'51		desc. node	1642 Apr 24 09:35	26° ♄ 14'50	
direct	1641 May 21 20:47	13° ♄ 46'03		morning rise	1642 Apr 27 22:44	24° ♄ 32'21	
morning max el	1641 Jun 04 11:05	20° ♄ 26'11	23°43'51	direct	1642 May 02 20:16	23° ♄ 36'50	
	1641 Jun 12 14:10	0° ♄			1642 May 16 02:43	0° ♄	
asc. node	1641 Jun 25 23:03	23° ♄ 11'59		morning max el	1642 May 17 01:32	0° ♄ 53'14	25°22'52
morning set	1641 Jun 28 11:15	28° ♄ 23'38			1642 Jun 06 07:15	0° ♄	
	1641 Jun 29 05:29	0° ♄		morning set	1642 Jun 12 23:02	13° ♄ 19'57	
				asc. node	1642 Jun 12 20:06	13° ♄ 04'30	
superior conj	1641 Jul 05 12:11	13° ♄ 31'32	1°25'42	superior conj	1642 Jun 19 22:27	28° ♄ 26'54	1°08'43
minimum elong	1641 Jul 05 09:49	13° ♄ 18'50	1°25'25	minimum elong	1642 Jun 19 20:05	28° ♄ 13'57	1°08'18
max. Earth dist.	1641 Jul 07 16:47	18° ♄ 13'10	1.33416 AU		1642 Jun 20 15:29	0° ♄	
evening rise	1641 Jul 12 23:42	29° ♄ 10'23			1642 Jun 21 00:30	0° ♄ 49'09	1.32643 AU
	1641 Jul 13 09:37	0° ♄		max. Earth dist.	1642 Jun 27 01:02	13° ♄ 38'46	
	1641 Jul 30 12:36	0° ♄		evening rise	1642 Jul 05 11:52	0° ♄	
desc. node	1641 Aug 03 11:51	5° ♄ 45'35		desc. node	1642 Jul 21 08:53	24° ♄ 27'26	
evening max el	1641 Aug 15 18:19	20° ♄ 20'47	27°24'07		1642 Jul 26 01:29	0° ♄	
retrograde	1641 Aug 29 08:08	27° ♄ 38'38		evening max el	1642 Jul 29 02:36	3° ♄ 06'16	27°18'31
evening set	1641 Sep 05 11:40	24° ♄ 57'45		retrograde	1642 Aug 11 21:59	10° ♄ 22'16	
min. Earth dist.	1641 Sep 09 04:05	21° ♄ 39'30	0.63984 AU	evening set	1642 Aug 19 02:26	7° ♄ 56'23	
inferior conj	1641 Sep 11 15:39	19° ♄ 04'25	-3°12'40	min. Earth dist.	1642 Aug 22 16:32	5° ♄ 05'44	0.62196 AU
minimum elong	1641 Sep 11 20:30	18° ♄ 51'45	3°11'07	inferior conj	1642 Aug 25 16:04	2° ♄ 20'08	-4°03'03
morning rise	1641 Sep 18 06:24	13° ♄ 42'31		minimum elong	1642 Aug 25 21:17	2° ♄ 08'00	4°01'49
direct	1641 Sep 20 19:51	13° ♄ 09'46			1642 Aug 28 07:15	30° ♄	
asc. node	1641 Sep 21 22:16	13° ♄ 15'55		morning rise	1642 Sep 01 17:37	27° ♄ 17'44	
morning max el	1641 Sep 27 08:35	16° ♄ 35'35	17°54'55	direct	1642 Sep 04 04:18	26° ♄ 51'27	
	1641 Oct 06 22:08	0° ♄		asc. node	1642 Sep 08 19:19	28° ♄ 28'15	
morning set	1641 Oct 14 07:10	12° ♄ 32'20			1642 Sep 10 16:12	0° ♄	
	1641 Oct 24 15:25	0° ♄		morning max el	1642 Sep 11 00:00	0° ♄ 18'46	17°53'32
				morning set	1642 Sep 27 00:27	25° ♄ 22'40	
superior conj	1641 Oct 27 01:18	3° ♄ 57'25	0°22'52		1642 Sep 29 14:07	0° ♄	
minimum elong	1641 Oct 27 03:47	4° ♄ 07'34	0°22'32	superior conj	1642 Oct 07 22:56	14° ♄ 41'38	1°00'59
desc. node	1641 Oct 30 11:08	9° ♄ 28'35		minimum elong	1642 Oct 08 03:33	15° ♄ 01'24	1°00'24
max. Earth dist.	1641 Nov 01 14:07	12° ♄ 52'26	1.44357 AU	max. Earth dist.	1642 Oct 15 04:29	26° ♄ 46'26	1.43020 AU
evening rise	1641 Nov 12 02:07	29° ♄ 17'42		desc. node	1642 Oct 17 08:10	0° ♄ 15'47	
	1641 Nov 12 13:07	0° ♄			1642 Oct 17 04:15	0° ♄	
	1641 Dec 02 19:29	0° ♄		evening rise	1642 Oct 22 12:19	8° ♄ 28'04	
evening max el	1641 Dec 09 22:25	8° ♄ 42'51	20°28'50		1642 Nov 05 18:56	0° ♄	
retrograde	1641 Dec 17 22:54	13° ♄ 26'32		evening max el	1642 Nov 22 19:32	22° ♄ 12'56	21°39'57
asc. node	1641 Dec 18 21:33	13° ♄ 21'32		retrograde	1642 Dec 01 20:00	27° ♄ 35'01	
evening set	1641 Dec 21 19:00	12° ♄ 01'26		asc. node	1642 Dec 05 18:35	26° ♄ 09'30	
inferior conj	1641 Dec 27 04:37	5° ♄ 53'51	2°33'12	evening set	1642 Dec 06 02:42	25° ♄ 53'58	
minimum elong	1641 Dec 27 01:59	6° ♄ 02'48	2°32'25	inferior conj	1642 Dec 11 11:08	19° ♄ 37'11	1°51'18
min. Earth dist.	1641 Dec 27 20:18	5° ♄ 00'35	0.67238 AU	minimum elong	1642 Dec 11 08:55	19° ♄ 44'55	1°50'30
morning rise	1642 Jan 01 08:48	29° ♄ 40'43		min. Earth dist.	1642 Dec 11 15:06	19° ♄ 23'29	0.67693 AU
	1642 Jan 01 00:28	30° ♄		morning rise	1642 Dec 16 14:58	13° ♄ 24'49	
direct	1642 Jan 06 23:40	27° ♄ 11'28		direct	1642 Dec 21 14:39	11° ♄ 16'53	
	1642 Jan 13 20:21	0° ♄		morning max el	1642 Dec 31 16:45	17° ♄ 16'06	23°02'34
morning max el	1642 Jan 18 07:17	3° ♄ 56'26	24°31'01		1643 Jan 11 05:39	0° ♄	
desc. node	1642 Jan 26 10:22	13° ♄ 23'33		desc. node	1643 Jan 13 07:24	2° ♄ 50'01	
	1642 Feb 07 06:53	0° ♄			1643 Jan 31 09:06	0° ♄	
morning set	1642 Feb 23 07:05	25° ♄ 59'34		morning set	1643 Feb 04 07:43	6° ♄ 27'27	
	1642 Feb 25 13:19	0° ♄		max. Earth dist.	1643 Feb 08 18:16	13° ♄ 58'47	1.39712 AU
max. Earth dist.	1642 Feb 26 23:10	2° ♄ 32'47	1.37576 AU				
superior conj	1642 Mar 05 18:22	15° ♄ 18'45	-1°36'50	superior conj	1643 Feb 16 11:03	27° ♄ 42'19	-1°55'28
minimum elong	1642 Mar 05 22:34	15° ♄ 39'07	1°36'19	minimum elong	1643 Feb 16 14:35	27° ♄ 58'35	1°55'14
	1642 Mar 13 04:53	0° ♄			1643 Feb 17 16:51	0° ♄	
evening rise	1642 Mar 14 09:23	2° ♄ 21'44		evening rise	1643 Feb 26 01:23	15° ♄ 51'12	
asc. node	1642 Mar 16 20:52	7° ♄ 14'33		asc. node	1643 Mar 03 17:55	26° ♄ 31'51	
evening max el	1642 Mar 31 03:58	29° ♄ 30'53	19°12'13		1643 Mar 05 17:03	0° ♄	
	1642 Mar 31 16:22	0° ♄		evening max el	1643 Mar 14 06:51	11° ♄ 56'17	18°31'24
retrograde	1642 Apr 09 01:58	3° ♄ 49'41		retrograde	1643 Mar 21 22:07	15° ♄ 41'16	
evening set	1642 Apr 11 05:13	3° ♄ 35'53		evening set	1643 Mar 24 07:01	15° ♄ 20'45	
	1642 Apr 18 15:34	30° ♄		inferior conj	1643 Mar 31 18:52	10° ♄ 51'13	2°40'43
inferior conj	1642 Apr 19 12:21	29° ♄ 25'10	1°21'55				

minimum elong	1643 Mar 31 22:52	10° Υ 43'18	2°39'45	min. Earth dist.	1644 Mar 16 05:24	19° X 55'13	0.60374 AU
min. Earth dist.	1643 Apr 04 05:02	8° Υ 10'14	0.58249 AU	morning rise	1644 Mar 19 20:21	17° X 09'52	
morning rise	1643 Apr 08 11:47	5° Υ 26'44		direct	1644 Mar 26 11:58	15° X 03'09	
desc. node	1643 Apr 11 06:36	4° Υ 22'19		desc. node	1644 Mar 28 03:40	15° X 10'40	
direct	1643 Apr 14 09:54	3° Υ 56'54		morning max el	1644 Apr 09 18:34	22° X 54'18	27°35'03
morning max el	1643 Apr 28 19:06	11° Υ 36'13	26°44'17		1644 Apr 16 02:03	0° Υ	
	1643 May 13 02:21	0° X			1644 May 05 04:36	0° X	
morning set	1643 May 28 09:25	28° X 11'08		morning set	1644 May 11 16:34	12° X 50'16	
	1643 May 29 06:04	0° Π		asc. node	1644 May 16 14:14	23° X 16'03	
asc. node	1643 May 30 17:11	3° Π 07'39		max. Earth dist.	1644 May 18 00:09	26° X 21'06	1.32244 AU
superior conj	1643 Jun 04 10:11	13° Π 24'50	0°47'58	superior conj	1644 May 18 21:35	28° X 18'34	0°24'12
minimum elong	1643 Jun 04 08:16	13° Π 14'17	0°47'35	minimum elong	1644 May 18 20:31	28° X 12'41	0°23'58
max. Earth dist.	1643 Jun 04 12:13	13° Π 36'05	1.32250 AU		1644 May 19 16:04	0° Π	
evening rise	1643 Jun 11 08:01	28° Π 22'49		evening rise	1644 May 25 18:22	13° Π 14'11	
	1643 Jun 12 02:38	0° X			1644 Jun 03 05:32	0° X	
	1643 Jun 28 20:54	0° Ω		evening max el	1644 Jun 22 00:53	26° X 27'20	25°30'51
desc. node	1643 Jul 08 05:54	12° Ω 07'33		desc. node	1644 Jun 24 02:56	28° X 19'37	
evening max el	1643 Jul 11 05:14	15° Ω 10'04	26°39'54		1644 Jun 26 06:50	0° Ω	
retrograde	1643 Jul 25 04:31	22° Ω 23'39		retrograde	1644 Jul 06 01:31	3° Ω 36'15	
evening set	1643 Jul 31 22:58	20° Ω 26'23		evening set	1644 Jul 11 20:46	2° Ω 17'15	
min. Earth dist.	1643 Aug 04 18:50	17° Ω 49'29	0.60176 AU		1644 Jul 15 22:37	30° R X	
inferior conj	1643 Aug 08 01:53	15° Ω 09'17	-4°40'58	min. Earth dist.	1644 Jul 16 13:01	29° X 35'57	0.58129 AU
minimum elong	1643 Aug 08 05:43	15° Ω 01'28	4°40'28	inferior conj	1644 Jul 19 17:33	27° X 21'24	-4°56'03
morning rise	1643 Aug 15 14:27	10° Ω 28'55		minimum elong	1644 Jul 19 17:31	27° X 21'26	4°56'04
direct	1643 Aug 18 00:57	10° Ω 06'45		morning rise	1644 Jul 27 16:45	23° X 03'23	
morning max el	1643 Aug 25 11:47	13° Ω 44'54	18°11'19	direct	1644 Jul 30 05:24	22° X 43'33	
asc. node	1643 Aug 26 16:22	14° Ω 58'38		morning max el	1644 Aug 07 16:37	26° X 43'32	18°49'34
	1643 Sep 05 13:19	0° X			1644 Aug 10 16:11	0° Ω	
morning set	1643 Sep 10 09:04	8° X 57'14		asc. node	1644 Aug 12 13:26	2° Ω 31'00	
				morning set	1644 Aug 24 04:28	23° Ω 03'06	
superior conj	1643 Sep 19 22:11	26° X 41'33	1°26'53		1644 Aug 27 17:27	0° X	
minimum elong	1643 Sep 20 02:04	26° X 59'04	1°26'31	superior conj	1644 Sep 01 17:40	9° X 41'09	1°41'16
	1643 Sep 21 18:30	0° Ω		minimum elong	1644 Sep 01 19:41	9° X 50'46	1°41'10
max. Earth dist.	1643 Sep 27 13:06	10° Ω 01'12	1.41222 AU	max. Earth dist.	1644 Sep 08 17:20	22° X 32'35	1.39198 AU
evening rise	1643 Oct 02 14:27	18° Ω 24'05		evening rise	1644 Sep 12 16:16	29° X 26'07	
desc. node	1643 Oct 04 05:13	21° Ω 00'30			1644 Sep 13 00:13	0° Ω	
	1643 Oct 09 22:43	0° X		desc. node	1644 Sep 20 02:15	11° Ω 38'24	
	1643 Oct 31 08:12	0° X			1644 Oct 02 08:49	0° X	
evening max el	1643 Nov 05 11:40	5° X 45'17	22°58'21	evening max el	1644 Oct 18 00:41	19° X 21'19	24°18'12
retrograde	1643 Nov 15 14:47	11° X 46'01		retrograde	1644 Oct 29 05:53	25° X 55'30	
evening set	1643 Nov 20 09:51	9° X 48'06		evening set	1644 Nov 03 14:48	23° X 40'41	
asc. node	1643 Nov 22 15:37	7° X 31'53		min. Earth dist.	1644 Nov 08 07:58	18° X 15'18	0.67575 AU
inferior conj	1643 Nov 25 18:37	3° X 25'54	1°03'24	asc. node	1644 Nov 08 12:39	17° X 59'33	
minimum elong	1643 Nov 25 17:11	3° X 30'49	1°02'50	inferior conj	1644 Nov 09 01:13	17° X 17'18	0°10'48
min. Earth dist.	1643 Nov 25 11:49	3° X 49'22	0.67801 AU	minimum elong	1644 Nov 09 00:57	17° X 18'11	0°10'41
	1643 Nov 28 08:49	30° R X		transit middle	1644 Nov 09 00:57	17° X 18'11	0°10'41
morning rise	1643 Dec 01 00:25	27° X 16'25		transit begin	1644 Nov 08 22:53	17° X 25'07	
direct	1643 Dec 05 09:28	25° X 31'11		transit end	1644 Nov 09 03:01	17° X 11'15	
	1643 Dec 13 12:56	0° X		morning rise	1644 Nov 14 11:07	11° X 13'04	
morning max el	1643 Dec 14 06:35	0° X 43'23	21°37'13	direct	1644 Nov 18 06:52	9° X 49'29	
desc. node	1643 Dec 31 04:28	22° X 44'41		morning max el	1644 Nov 26 03:31	14° X 20'45	20°21'41
	1644 Jan 05 01:58	0° X			1644 Dec 08 07:24	0° X	
morning set	1644 Jan 15 03:14	15° X 32'28		desc. node	1644 Dec 17 01:31	12° X 59'27	
max. Earth dist.	1644 Jan 21 17:44	26° X 14'56	1.41788 AU	morning set	1644 Dec 24 01:42	23° X 43'19	
	1644 Jan 23 23:44	0° \approx			1644 Dec 28 02:21	0° X	
superior conj	1644 Jan 29 07:36	9° \approx 06'47	-2°04'18	max. Earth dist.	1645 Jan 03 01:10	9° X 26'58	1.43516 AU
minimum elong	1644 Jan 29 08:13	9° \approx 09'29	2°04'18	superior conj	1645 Jan 09 03:07	19° X 21'44	-1°58'26
evening rise	1644 Feb 09 05:05	28° \approx 41'49		minimum elong	1645 Jan 08 22:36	19° X 03'05	1°58'13
	1644 Feb 09 22:08	0° X			1645 Jan 15 10:59	0° \approx	
asc. node	1644 Feb 18 14:57	15° X 21'39		evening rise	1645 Jan 21 16:16	10° \approx 45'20	
evening max el	1644 Feb 25 15:59	24° X 48'50	18°10'32		1645 Feb 02 00:58	0° X	
retrograde	1644 Mar 03 11:59	28° X 15'58		asc. node	1645 Feb 04 11:59	3° X 35'29	
evening set	1644 Mar 06 02:34	27° X 46'26		evening max el	1645 Feb 08 04:13	8° X 00'00	18°09'08
inferior conj	1644 Mar 12 21:56	22° X 56'08	3°25'59	retrograde	1645 Feb 14 15:49	11° X 24'11	
minimum elong	1644 Mar 13 00:30	22° X 50'15	3°25'39				

evening set	1645 Feb 17 11:32	10° H 44'23		asc. node	1646 Jan 22 09:01	21° \approx 01'46	
inferior conj	1645 Feb 23 18:10	5° H 33'28	3°43'43	evening max el	1646 Jan 22 16:35	21° \approx 21'17	18°26'30
minimum elong	1645 Feb 23 18:41	5° H 32'08	3°43'41	retrograde	1646 Jan 29 05:05	24° \approx 55'24	
min. Earth dist.	1645 Feb 26 13:52	2° H 37'33	0.62467 AU	evening set	1646 Feb 01 06:03	24° \approx 04'30	
	1645 Mar 01 11:15	30° \approx		inferior conj	1646 Feb 07 03:26	18° \approx 34'29	3°40'55
morning rise	1645 Mar 02 00:41	29° \approx 34'13		minimum elong	1646 Feb 07 02:15	18° \approx 37'54	3°40'49
direct	1645 Mar 08 23:31	26° \approx 59'00		min. Earth dist.	1646 Feb 09 07:52	16° \approx 02'36	0.64296 AU
desc. node	1645 Mar 15 00:42	28° \approx 40'36		morning rise	1646 Feb 12 21:54	12° \approx 27'38	
	1645 Mar 17 04:58	0° H		direct	1646 Feb 19 18:37	9° \approx 37'47	
morning max el	1645 Mar 22 23:45	4° H 53'51	27°49'02	desc. node	1646 Mar 01 21:43	14° \approx 18'38	
	1645 Apr 10 20:04	0° Y		morning max el	1646 Mar 05 08:38	17° \approx 28'57	27°26'53
morning set	1645 Apr 25 18:26	27° Y 10'43			1646 Mar 15 19:57	0° H	
	1645 Apr 27 03:34	0° B			1646 Apr 03 16:07	0° Y	
max. Earth dist.	1645 May 01 08:33	8° B 51'49	1.32641 AU	morning set	1646 Apr 09 12:22	11° Y 03'37	
				max. Earth dist.	1646 Apr 14 09:32	20° Y 56'00	1.33459 AU
superior conj	1645 May 03 07:00	13° B 02'29	-0°01'54				
minimum elong	1645 May 03 07:05	13° B 02'59	0°01'52	superior conj	1646 Apr 17 12:30	27° Y 29'53	-0°29'23
behind sun begin	1645 May 03 01:56	12° B 35'03		minimum elong	1646 Apr 17 13:58	27° Y 37'38	0°29'04
behind sun end	1645 May 03 12:14	13° B 30'55			1646 Apr 18 16:41	0° B	
asc. node	1645 May 03 11:17	13° B 25'44		asc. node	1646 Apr 20 08:19	3° B 32'08	
evening rise	1645 May 10 06:09	28° B 06'23		evening rise	1646 Apr 24 17:30	12° B 52'29	
	1645 May 11 03:43	0° II			1646 May 03 11:43	0° II	
	1645 May 28 09:39	0° E		evening max el	1646 May 16 06:39	17° II 37'34	22°24'44
evening max el	1645 Jun 03 15:22	7° E 07'51	24°00'50	desc. node	1646 May 28 20:56	24° II 03'24	
desc. node	1645 Jun 10 23:56	12° E 29'55		retrograde	1646 May 29 06:44	24° II 03'46	
retrograde	1645 Jun 17 10:17	14° E 03'44		evening set	1646 Jun 01 06:41	23° II 43'57	
evening set	1645 Jun 21 19:44	13° E 21'05		min. Earth dist.	1646 Jun 09 13:40	20° II 09'08	0.55209 AU
min. Earth dist.	1645 Jun 28 02:10	10° E 19'24	0.56362 AU	inferior conj	1646 Jun 10 14:29	19° II 34'03	-3°25'44
inferior conj	1645 Jun 30 12:55	8° E 48'58	-4°34'30	minimum elong	1646 Jun 10 06:40	19° II 45'06	3°23'35
minimum elong	1645 Jun 30 07:38	8° E 57'09	4°33'45	morning rise	1646 Jun 19 08:41	15° II 42'01	
morning rise	1645 Jul 08 22:13	4° E 49'32		direct	1646 Jun 22 07:14	15° II 22'24	
direct	1645 Jul 11 14:54	4° E 30'38		morning max el	1646 Jul 03 19:12	20° II 43'29	21°09'26
morning max el	1645 Jul 21 11:35	9° E 05'05	19°49'14		1646 Jul 11 10:49	0° E	
asc. node	1645 Jul 30 10:30	20° E 51'25		asc. node	1646 Jul 17 07:33	9° E 48'27	
	1645 Aug 04 12:04	0° O		morning set	1646 Jul 23 15:06	22° E 15'09	
morning set	1645 Aug 08 07:19	7° O 31'25			1646 Jul 27 08:14	0° O	
superior conj	1645 Aug 16 04:01	23° O 25'26	1°45'59	superior conj	1646 Jul 31 00:53	7° O 41'56	1°42'52
minimum elong	1645 Aug 16 04:10	23° O 26'13	1°45'59	minimum elong	1646 Jul 30 23:37	7° O 35'24	1°42'50
	1645 Aug 19 12:32	0° P		max. Earth dist.	1646 Aug 04 07:48	16° O 23'59	1.35427 AU
max. Earth dist.	1645 Aug 21 21:47	4° P 32'40	1.37197 AU	evening rise	1646 Aug 08 13:19	24° O 36'02	
evening rise	1645 Aug 25 17:17	11° P 33'33			1646 Aug 11 11:14	0° P	
	1645 Sep 05 15:23	0° A		desc. node	1646 Aug 24 20:15	22° P 14'48	
desc. node	1645 Sep 06 23:15	2° A 05'04			1646 Aug 30 04:21	0° A	
	1645 Sep 27 15:01	0° M		evening max el	1646 Sep 13 00:44	16° A 38'25	26°33'10
evening max el	1645 Sep 30 12:41	3° M 00'35	25°32'19	retrograde	1646 Sep 25 21:55	23° A 51'34	
retrograde	1645 Oct 12 16:25	9° M 59'08		evening set	1646 Oct 02 10:52	21° A 10'33	
evening set	1645 Oct 18 15:47	7° M 29'04		min. Earth dist.	1646 Oct 06 12:45	16° A 57'02	0.66118 AU
min. Earth dist.	1645 Oct 23 01:03	2° M 38'55	0.67021 AU	inferior conj	1646 Oct 08 04:34	14° A 57'21	-1°43'04
inferior conj	1645 Oct 24 05:10	1° M 08'40	-0°45'13	minimum elong	1646 Oct 08 07:18	14° A 49'09	1°41'58
minimum elong	1645 Oct 24 06:19	1° M 04'56	0°44'43	asc. node	1646 Oct 13 06:45	9° A 46'00	
	1645 Oct 25 02:43	30° R A		morning rise	1646 Oct 14 04:16	9° A 12'10	
asc. node	1645 Oct 26 09:43	28° A 25'51		direct	1646 Oct 17 03:17	8° A 22'53	
morning rise	1645 Oct 29 21:05	25° A 12'31		morning max el	1646 Oct 23 19:22	12° A 02'52	18°33'36
direct	1645 Nov 02 05:26	24° A 07'51			1646 Nov 05 16:14	0° M	
morning max el	1645 Nov 09 08:13	28° A 08'12	19°19'47	morning set	1646 Nov 13 02:14	11° M 49'48	
	1645 Nov 11 01:38	0° M		desc. node	1646 Nov 20 19:32	24° M 06'50	
	1645 Dec 01 16:54	0° J			1646 Nov 24 13:02	0° J	
morning set	1645 Dec 03 02:14	2° J 09'18		superior conj	1646 Nov 28 22:37	6° J 55'03	-0°52'27
desc. node	1645 Dec 03 22:31	3° J 28'08		minimum elong	1646 Nov 28 15:59	6° J 29'00	0°51'37
max. Earth dist.	1645 Dec 16 15:43	23° J 21'57	1.44674 AU	max. Earth dist.	1646 Nov 29 10:12	7° J 40'32	1.45128 AU
superior conj	1645 Dec 19 20:40	28° J 26'58	-1°33'56		1646 Dec 13 14:14	0° Z	
minimum elong	1645 Dec 19 12:04	27° J 52'48	1°33'08	evening rise	1646 Dec 14 21:38	2° Z 04'36	
	1645 Dec 20 20:00	0° Z		greatest brilliancy	1646 Dec 23 19:28	16° Z 12'10	-0.8m
evening rise	1646 Jan 03 06:38	21° Z 53'34			1647 Jan 02 02:13	0° \approx	
	1646 Jan 08 03:44	0° \approx		evening max el	1647 Jan 06 02:38	4° \approx 48'01	19°01'37

asc. node	1647 Jan 09 06:02	7°  27'32		max. Earth dist.	1647 Nov 12 04:54	22°  01'49	1.44838 AU
retrograde	1647 Jan 13 00:01	8°  42'49			1647 Nov 17 06:46	0° 	
evening set	1647 Jan 16 07:06	7°  39'51		evening rise	1647 Nov 24 15:35	11°  26'21	
inferior conj	1647 Jan 21 22:09	1°  53'03	3°23'05		1647 Dec 06 18:43	0° 	
minimum elong	1647 Jan 21 19:56	2°  00'04	3°22'42	greatest brilliancy	1647 Dec 08 06:53	2°  15'05	-0.7m
	1647 Jan 23 10:05	30°  8'3		evening max el	1647 Dec 20 08:27	18°  316'58	19°52'57
min. Earth dist.	1647 Jan 23 11:15	29°  356'20	0.65754 AU	asc. node	1647 Dec 27 03:04	22°  337'51	
morning rise	1647 Jan 27 08:27	25°  341'52		retrograde	1647 Dec 27 21:32	22°  341'08	
direct	1647 Feb 02 20:24	22°  351'28		evening set	1647 Dec 31 12:16	21°  324'44	
	1647 Feb 15 07:09	0° 		inferior conj	1648 Jan 05 23:19	15°  323'56	2°54'00
morning max el	1647 Feb 15 18:34	0°  28'26	26°34'10	minimum elong	1648 Jan 05 20:41	15°  332'44	2°53'20
desc. node	1647 Feb 16 18:45	1°  30'35		min. Earth dist.	1648 Jan 06 22:26	14°  307'00	0.66809 AU
	1647 Mar 09 19:27	0° 		morning rise	1648 Jan 11 04:52	9°  310'47	
morning set	1647 Mar 23 18:53	24°  18'40		direct	1648 Jan 17 04:03	6°  331'15	
	1647 Mar 26 17:52	0° 		morning max el	1648 Jan 29 03:31	13°  339'39	25°19'38
max. Earth dist.	1647 Mar 27 23:40	2°  26'37	1.34724 AU	desc. node	1648 Feb 03 15:47	19°  349'11	
					1648 Feb 11 10:24	0° 	
superior conj	1647 Apr 01 11:54	11°  34'20	-0°57'05		1648 Mar 01 14:21	0° 	
minimum elong	1647 Apr 01 14:45	11°  49'03	0°56'33	morning set	1648 Mar 05 09:18	6°  342'14	
asc. node	1647 Apr 07 05:21	23°  31'17		max. Earth dist.	1648 Mar 09 02:05	13°  330'54	1.36427 AU
evening rise	1647 Apr 09 02:30	27°  326'18					
	1647 Apr 10 08:23	0° 		superior conj	1648 Mar 15 02:26	25°  308'13	-1°23'18
evening max el	1647 Apr 28 06:06	28°  328'00	20°56'38	minimum elong	1648 Mar 15 06:22	25°  327'46	1°22'44
	1647 Apr 29 22:59	0° 			1648 Mar 17 12:46	0° 	
retrograde	1647 May 09 20:10	4°  306'17		evening rise	1648 Mar 23 07:03	11°  341'25	
evening set	1647 May 12 00:27	3°  355'04		asc. node	1648 Mar 24 02:24	13°  318'52	
desc. node	1647 May 15 17:59	2°  348'52			1648 Apr 02 02:27	0° 	
inferior conj	1647 May 21 08:15	29°  356'53	-1°37'00	evening max el	1648 Apr 09 17:19	9°  356'58	19°44'51
minimum elong	1647 May 21 03:41	0°  303'22	1°35'23	retrograde	1648 Apr 19 13:44	14°  342'00	
	1647 May 21 06:03	30°  38'3		evening set	1648 Apr 21 14:42	14°  330'41	
min. Earth dist.	1647 May 22 02:08	29°  331'31	0.54941 AU	inferior conj	1648 Apr 30 08:50	10°  328'40	0°21'44
morning rise	1647 May 30 06:42	25°  352'47		minimum elong	1648 Apr 30 09:47	10°  327'11	0°21'23
direct	1647 Jun 02 16:39	25°  327'38		desc. node	1648 May 01 15:00	9°  341'36	
	1647 Jun 13 18:12	0° 		min. Earth dist.	1648 May 02 16:21	9°  302'32	0.55638 AU
morning max el	1647 Jun 15 16:36	1°  341'01	22°45'24	morning rise	1648 May 09 02:24	5°  355'23	
asc. node	1647 Jul 04 04:35	29°  312'42		direct	1648 May 13 09:19	5°  314'27	
	1647 Jul 04 14:07	0° 		morning max el	1648 May 27 07:56	12°  312'45	24°27'09
morning set	1647 Jul 08 01:44	7°  307'59			1648 Jun 09 22:23	0° 	
				asc. node	1648 Jun 20 01:38	18°  312'57'06	
superior conj	1647 Jul 15 04:54	22°  319'57	1°33'30	morning set	1648 Jun 21 13:36	22°  3104'56	
minimum elong	1647 Jul 15 02:46	22°  308'40	1°33'17		1648 Jun 25 06:10	0° 	
max. Earth dist.	1647 Jul 18 02:35	28°  326'57	1.34025 AU				
	1647 Jul 18 20:32	0° 		superior conj	1648 Jun 28 13:32	7°  311'38	1°19'01
evening rise	1647 Jul 22 23:45	8°  320'49		minimum elong	1648 Jun 28 11:07	6°  3058'29	1°18'39
	1647 Aug 03 23:15	0° 		max. Earth dist.	1648 Jun 30 06:14	10°  3051'42	1.33032 AU
desc. node	1647 Aug 11 17:17	11°  359'29		evening rise	1648 Jul 05 20:39	22°  3036'56	
	1647 Aug 26 10:25	0° 			1648 Jul 09 14:10	0° 	
evening max el	1647 Aug 26 12:38	0°  305'17	27°13'15		1648 Jul 27 18:09	0° 	
retrograde	1647 Sep 08 21:59	7°  324'12		desc. node	1648 Jul 28 14:19	1°  308'36	
evening set	1647 Sep 15 21:36	4°  340'01		evening max el	1648 Aug 07 23:04	13°  310'18	27°25'48
min. Earth dist.	1647 Sep 19 16:51	1°  302'37	0.64857 AU	retrograde	1648 Aug 21 15:59	20°  3028'15	
	1647 Sep 20 15:43	30°  38'3		evening set	1648 Aug 28 20:47	17°  3052'09	
inferior conj	1647 Sep 21 21:12	28°  338'07	-2°40'45	min. Earth dist.	1648 Sep 01 11:33	14°  3046'42	0.63252 AU
minimum elong	1647 Sep 22 01:25	28°  326'29	2°39'15	inferior conj	1648 Sep 04 04:27	12°  3052'5	-3°35'08
morning rise	1647 Sep 28 06:08	23°  306'56		minimum elong	1648 Sep 04 09:37	11°  3052'33	3°33'38
asc. node	1647 Sep 30 03:47	22°  332'26		morning rise	1648 Sep 10 23:43	6°  351'21	
direct	1647 Sep 30 22:15	22°  329'17		direct	1648 Sep 13 11:32	6°  3021'49	
morning max el	1647 Oct 07 10:25	25°  358'08	18°04'04	asc. node	1648 Sep 16 00:50	6°  3053'29	
	1647 Oct 10 20:36	0° 		morning max el	1648 Sep 20 02:32	9°  3047'39	17°52'02
morning set	1647 Oct 25 07:17	22°  355'50			1648 Oct 03 13:32	0° 	
	1647 Oct 29 13:20	0° 		morning set	1648 Oct 06 13:10	5°  3013'31	
desc. node	1647 Nov 07 16:33	14°  351'23					
				superior conj	1648 Oct 18 11:37	25°  3041'45	0°40'27
superior conj	1647 Nov 08 05:50	15°  344'29	-0°03'44	minimum elong	1648 Oct 18 15:28	25°  3057'47	0°39'56
minimum elong	1647 Nov 08 05:23	15°  342'38	0°03'39		1648 Oct 21 02:11	0° 	
behind sun begin	1647 Nov 07 18:56	15°  300'55		desc. node	1648 Oct 24 13:36	5°  3038'37	
behind sun end	1647 Nov 08 15:49	16°  324'18		max. Earth dist.	1648 Oct 24 21:19	6°  3009'37	1.43856 AU

































































































































evening rise	1648 Nov 02 23:39	20° \mathbb{M} 28'29		desc. node	1649 Oct 11 10:39	26° $\underline{\mathbf{a}}$ 25'14	
	1648 Nov 09 05:21	0° \mathcal{A}		evening rise	1649 Oct 13 15:02	29° $\underline{\mathbf{a}}$ 54'20	
	1648 Nov 30 17:10	0° \mathcal{B}			1649 Oct 13 16:28	0° \mathbb{M}	
evening max el	1648 Dec 02 08:56	1° \mathcal{B} 47'12	20°57'56		1649 Nov 02 19:57	0° \mathcal{A}	
retrograde	1648 Dec 10 19:14	6° \mathcal{B} 46'49		evening max el	1649 Nov 15 03:55	15° \mathcal{A} 18'51	22°12'50
asc. node	1648 Dec 13 00:06	6° \mathcal{B} 19'41		retrograde	1649 Nov 24 15:24	20° \mathcal{A} 57'04	
evening set	1648 Dec 14 19:33	5° \mathcal{B} 15'19		evening set	1649 Nov 29 03:13	19° \mathcal{A} 08'56	
	1648 Dec 19 12:00	30° $\mathcal{R}\mathcal{A}$		asc. node	1649 Nov 29 21:08	18° \mathcal{A} 29'31	
inferior conj	1648 Dec 20 04:30	29° \mathcal{A} 03'36	2°16'16	inferior conj	1649 Dec 04 11:38	12° \mathcal{A} 49'39	1°31'40
minimum elong	1648 Dec 20 01:58	29° \mathcal{A} 12'15	2°15'26	minimum elong	1649 Dec 04 09:42	12° \mathcal{A} 56'21	1°30'56
min. Earth dist.	1648 Dec 20 15:07	28° \mathcal{A} 27'06	0.67478 AU	min. Earth dist.	1649 Dec 04 10:57	12° \mathcal{A} 51'59	0.67781 AU
morning rise	1648 Dec 25 08:12	22° \mathcal{A} 50'26		morning rise	1649 Dec 09 16:02	6° \mathcal{A} 38'26	
direct	1648 Dec 30 16:43	20° \mathcal{A} 29'34		direct	1649 Dec 14 09:30	4° \mathcal{A} 39'58	
morning max el	1649 Jan 10 11:53	26° \mathcal{A} 55'54	23°53'25	morning max el	1649 Dec 23 22:40	10° \mathcal{A} 18'16	22°25'30
	1649 Jan 13 08:26	0° \mathcal{B}		desc. node	1650 Jan 07 09:53	28° \mathcal{A} 35'08	
desc. node	1649 Jan 20 12:50	8° \mathcal{B} 55'08			1650 Jan 08 09:42	0° \mathcal{B}	
	1649 Feb 04 01:44	0° \approx		morning set	1650 Jan 26 13:48	27° \mathcal{B} 49'22	
morning set	1649 Feb 15 01:30	17° \approx 56'53			1650 Jan 27 21:42	0° \approx	
max. Earth dist.	1649 Feb 18 21:24	24° \approx 37'50	1.38475 AU	max. Earth dist.	1650 Jan 31 18:05	6° \approx 25'27	1.40626 AU
	1649 Feb 21 20:57	0° \mathcal{H}					
superior conj	1649 Feb 26 04:27	8° \mathcal{H} 01'19	-1°45'39	superior conj	1650 Feb 08 13:21	20° \approx 02'25	-2°00'42
minimum elong	1649 Feb 26 08:36	8° \mathcal{H} 20'57	1°45'15	minimum elong	1650 Feb 08 15:58	20° \approx 14'11	2°00'35
evening rise	1649 Mar 07 04:32	25° \mathcal{H} 29'57			1650 Feb 13 23:53	0° \mathcal{H}	
	1649 Mar 09 12:04	0° \mathcal{Y}		evening rise	1650 Feb 18 15:50	8° \mathcal{H} 44'45	
asc. node	1649 Mar 10 23:27	2° \mathcal{Y} 49'06		asc. node	1650 Feb 25 20:30	21° \mathcal{H} 56'06	
evening max el	1649 Mar 23 15:21	22° \mathcal{Y} 04'10	18°52'24		1650 Mar 02 22:40	0° \mathcal{Y}	
retrograde	1649 Mar 31 22:38	26° \mathcal{Y} 06'03		evening max el	1650 Mar 06 21:20	4° \mathcal{Y} 42'52	18°20'00
evening set	1649 Apr 03 04:19	25° \mathcal{Y} 49'41		retrograde	1650 Mar 14 02:48	8° \mathcal{Y} 18'10	
inferior conj	1649 Apr 11 03:06	21° \mathcal{Y} 31'44	1°59'34	evening set	1650 Mar 16 14:19	7° \mathcal{Y} 53'53	
minimum elong	1649 Apr 11 07:00	21° \mathcal{Y} 24'42	1°58'25	inferior conj	1650 Mar 23 18:41	3° \mathcal{Y} 15'14	3°03'44
min. Earth dist.	1649 Apr 14 08:37	19° \mathcal{Y} 13'12	0.57148 AU	minimum elong	1650 Mar 23 22:15	3° \mathcal{Y} 07'42	3°03'01
desc. node	1649 Apr 18 12:03	16° \mathcal{Y} 45'34		min. Earth dist.	1650 Mar 27 05:04	0° \mathcal{Y} 23'00	0.59148 AU
morning rise	1649 Apr 19 06:35	16° \mathcal{Y} 24'44			1650 Mar 27 16:46	30° $\mathcal{R}\mathcal{H}$	
direct	1649 Apr 24 15:23	15° \mathcal{Y} 15'22		morning rise	1650 Mar 31 03:39	27° \mathcal{H} 40'31	
morning max el	1649 May 08 22:56	22° \mathcal{Y} 42'58	26°00'26	desc. node	1650 Apr 05 09:05	25° \mathcal{H} 57'51	
	1649 May 15 10:20	0° \mathcal{B}		direct	1650 Apr 06 10:24	25° \mathcal{H} 54'53	
	1649 Jun 02 15:23	0° \mathbb{I}			1650 Apr 16 14:01	0° \mathcal{Y}	
morning set	1649 Jun 06 00:58	6° \mathbb{I} 59'36		morning max el	1650 Apr 20 18:47	3° \mathcal{Y} 39'12	27°10'05
asc. node	1649 Jun 06 22:42	8° \mathbb{I} 54'44			1650 May 10 00:18	0° \mathcal{B}	
				morning set	1650 May 21 10:13	21° \mathcal{B} 46'28	
superior conj	1649 Jun 13 00:38	22° \mathbb{I} 08'50	1°00'20	asc. node	1650 May 24 19:46	29° \mathcal{B} 00'41	
minimum elong	1649 Jun 12 22:25	21° \mathbb{I} 56'36	0°59'55		1650 May 25 06:43	0° \mathbb{I}	
max. Earth dist.	1649 Jun 13 16:06	23° \mathbb{I} 33'42	1.32434 AU	max. Earth dist.	1650 May 28 04:33	6° \mathbb{I} 22'14	1.32212 AU
	1649 Jun 16 15:02	0° \mathcal{B}					
evening rise	1649 Jun 20 00:43	7° \mathcal{B} 13'15		superior conj	1650 May 28 12:26	7° \mathbb{I} 05'34	0°38'12
	1649 Jul 02 02:01	0° \mathcal{O}		minimum elong	1650 May 28 10:49	6° \mathbb{I} 56'44	0°37'52
desc. node	1649 Jul 15 11:21	19° \mathcal{O} 26'43		evening rise	1650 Jun 04 09:25	22° \mathbb{I} 01'25	
evening max el	1649 Jul 21 05:27	25° \mathcal{O} 39'46	27°06'12		1650 Jun 08 06:40	0° \mathcal{B}	
	1649 Jul 26 15:01	0° \mathbb{M}			1650 Jun 26 14:03	0° \mathcal{O}	
retrograde	1649 Aug 04 02:46	2° \mathbb{M} 54'10		desc. node	1650 Jul 02 08:23	6° \mathcal{O} 32'47	
evening set	1649 Aug 11 04:19	0° \mathbb{M} 39'18		evening max el	1650 Jul 03 05:11	7° \mathcal{O} 23'30	26°13'43
	1649 Aug 12 04:04	30° $\mathcal{R}\mathcal{O}$		retrograde	1650 Jul 17 05:01	14° \mathcal{O} 34'46	
min. Earth dist.	1649 Aug 14 19:44	27° \mathcal{O} 56'12	0.61354 AU	evening set	1650 Jul 23 15:28	12° \mathcal{O} 53'08	
inferior conj	1649 Aug 17 23:05	25° \mathcal{O} 11'00	-4°21'13	min. Earth dist.	1650 Jul 27 17:58	10° \mathcal{O} 16'46	0.59297 AU
minimum elong	1649 Aug 18 03:59	25° \mathcal{O} 00'12	4°20'16	inferior conj	1650 Jul 31 01:31	7° \mathcal{O} 45'13	-4°50'56
morning rise	1649 Aug 25 05:17	20° \mathcal{O} 17'21		minimum elong	1650 Jul 31 04:01	7° \mathcal{O} 40'26	4°50'45
direct	1649 Aug 27 15:36	19° \mathcal{O} 53'01		morning rise	1650 Aug 07 18:40	3° \mathcal{O} 14'28	
asc. node	1649 Sep 02 21:53	22° \mathcal{O} 40'27		direct	1650 Aug 10 06:02	2° \mathcal{O} 53'19	
morning max el	1649 Sep 03 16:41	23° \mathcal{O} 23'57	17°58'39	morning max el	1650 Aug 18 01:47	6° \mathcal{O} 38'57	18°25'03
	1649 Sep 08 22:41	0° \mathbb{M}		asc. node	1650 Aug 20 18:58	9° \mathcal{O} 38'45	
morning set	1649 Sep 19 13:36	18° \mathbb{M} 24'26			1650 Sep 01 23:20	0° \mathbb{M}	
	1649 Sep 25 22:09	0° $\underline{\mathbf{a}}$		morning set	1650 Sep 03 03:14	2° \mathbb{M} 13'27	
superior conj	1649 Sep 29 20:35	6° $\underline{\mathbf{a}}$ 59'01	1°13'29	superior conj	1650 Sep 12 05:05	19° \mathbb{M} 26'01	1°34'18
minimum elong	1649 Sep 30 01:08	7° $\underline{\mathbf{a}}$ 18'56	1°12'57	minimum elong	1650 Sep 12 08:14	19° \mathbb{M} 40'32	1°34'04
max. Earth dist.	1649 Oct 07 09:29	19° $\underline{\mathbf{a}}$ 48'54	1.42300 AU		1650 Sep 18 02:01	0° $\underline{\mathbf{a}}$	
				max. Earth dist.	1650 Sep 19 16:21	2° $\underline{\mathbf{a}}$ 46'38	1.40370 AU

evening rise	1650 Sep 24 02:45	10° Ω 16'41		max. Earth dist.	1651 Sep 01 19:54	15° Π 02'31	1.38322 AU
desc. node	1650 Sep 28 07:40	17° Ω 07'23		evening rise	1651 Sep 05 14:50	21° Π 47'48	
	1650 Oct 06 15:52	0° Π			1651 Sep 10 10:32	0° Ω	
evening max el	1650 Oct 28 18:23	28° Π 52'16	23°32'36	desc. node	1651 Sep 15 04:42	7° Ω 41'29	
	1650 Oct 29 22:20	0° Σ			1651 Sep 30 14:16	0° Π	
retrograde	1650 Nov 08 08:38	5° Σ 07'53		evening max el	1651 Oct 11 06:32	12° Π 29'23	24°50'51
evening set	1650 Nov 13 09:35	3° Σ 02'27		retrograde	1651 Oct 22 22:00	19° Π 15'52	
	1650 Nov 16 06:26	30° Σ Π		evening set	1651 Oct 28 13:04	16° Π 53'57	
asc. node	1650 Nov 16 18:11	29° Π 22'50		min. Earth dist.	1651 Nov 02 02:40	11° Π 43'26	0.67376 AU
inferior conj	1650 Nov 18 18:53	26° Π 39'17	0°41'36	inferior conj	1651 Nov 03 00:33	10° Π 31'05	-0°12'38
minimum elong	1650 Nov 18 17:55	26° Π 42'36	0°41'11	minimum elong	1651 Nov 03 00:52	10° Π 30'02	0°12'31
min. Earth dist.	1650 Nov 18 07:34	27° Π 18'00	0.67742 AU	transit middle	1651 Nov 03 00:52	10° Π 30'02	0°12'31
morning rise	1650 Nov 24 02:12	20° Π 32'02		transit begin	1651 Nov 02 23:07	10° Π 35'51	
direct	1650 Nov 28 05:24	18° Π 56'24		transit end	1651 Nov 03 02:38	10° Π 24'14	
morning max el	1650 Dec 06 15:21	23° Π 49'46	21°03'45	asc. node	1651 Nov 03 15:13	9° Π 42'49	
	1650 Dec 11 23:45	0° Σ		morning rise	1651 Nov 08 12:49	4° Π 30'04	
desc. node	1650 Dec 25 06:54	18° Σ 38'59		direct	1651 Nov 12 03:21	3° Π 15'08	
	1651 Jan 01 19:06	0° Σ		morning max el	1651 Nov 19 15:44	7° Π 32'15	19°53'33
morning set	1651 Jan 05 22:22	6° Σ 25'06			1651 Dec 06 05:50	0° Σ	
max. Earth dist.	1651 Jan 13 21:19	19° Σ 08'02	1.42580 AU	desc. node	1651 Dec 12 03:55	9° Σ 00'14	
	1651 Jan 20 10:02	0° \approx		morning set	1651 Dec 15 18:20	14° Σ 32'41	
					1651 Dec 25 15:38	0° Σ	
superior conj	1651 Jan 20 23:39	0° \approx 57'56	-2°03'55	max. Earth dist.	1651 Dec 27 07:39	2° Σ 38'53	1.44082 AU
minimum elong	1651 Jan 20 22:17	0° \approx 52'05	2°03'53				
evening rise	1651 Feb 01 13:01	21° \approx 16'34		superior conj	1652 Jan 01 07:37	10° Σ 41'07	-1°50'24
	1651 Feb 06 10:09	0° Σ		minimum elong	1652 Jan 01 00:55	10° Σ 13'54	1°49'57
asc. node	1651 Feb 12 17:31	10° Σ 31'52			1652 Jan 12 22:13	0° \approx	
evening max el	1651 Feb 18 08:04	17° Σ 43'59	18°07'30	evening rise	1652 Jan 14 15:47	2° \approx 57'09	
retrograde	1651 Feb 24 23:22	21° Σ 08'31		asc. node	1652 Jan 30 14:32	28° \approx 27'00	
evening set	1651 Feb 27 16:06	20° Σ 34'47			1652 Jan 31 22:00	0° Σ	
inferior conj	1651 Mar 06 05:34	15° Σ 35'18	3°36'26	evening max el	1652 Feb 01 20:36	0° Σ 59'56	18°14'18
minimum elong	1651 Mar 06 07:15	15° Σ 31'11	3°36'17	retrograde	1652 Feb 08 07:44	4° Σ 27'13	
min. Earth dist.	1651 Mar 09 08:38	12° Σ 33'48	0.61284 AU	evening set	1652 Feb 11 05:30	3° Σ 42'59	
morning rise	1651 Mar 12 20:46	9° Σ 42'21			1652 Feb 15 19:59	30° Σ \approx	
direct	1651 Mar 19 16:28	7° Σ 22'23		inferior conj	1652 Feb 17 07:49	28° \approx 23'50	3°44'40
desc. node	1651 Mar 23 06:06	7° Σ 57'38		minimum elong	1652 Feb 17 07:33	28° \approx 24'36	3°44'39
morning max el	1651 Apr 02 21:06	15° Σ 16'00	27°45'38	min. Earth dist.	1652 Feb 19 21:17	25° \approx 35'58	0.63280 AU
	1651 Apr 14 20:52	0° Υ		morning rise	1652 Feb 23 08:41	22° \approx 20'33	
	1651 May 02 11:57	0° Σ		direct	1652 Mar 01 07:33	19° \approx 37'05	
morning set	1651 May 05 15:26	6° Σ 19'10		desc. node	1652 Mar 09 03:07	22° \approx 26'15	
max. Earth dist.	1651 May 11 15:39	19° Σ 03'59	1.32366 AU	morning max el	1652 Mar 15 04:19	27° \approx 32'30	27°43'47
asc. node	1651 May 11 16:50	19° Σ 10'26			1652 Mar 17 12:34	0° Σ	
					1652 Apr 07 13:23	0° Υ	
superior conj	1651 May 12 23:12	21° Σ 56'06	0°13'22	morning set	1652 Apr 18 14:18	20° Υ 29'38	
minimum elong	1651 May 12 22:36	21° Σ 52'45	0°13'14		1652 Apr 23 05:15	0° Σ	
behind sun begin	1651 May 12 19:46	21° Σ 37'20		max. Earth dist.	1652 Apr 23 21:15	1° Σ 24'34	1.32930 AU
behind sun end	1651 May 13 01:25	22° Σ 08'10					
	1651 May 16 15:41	0° Π		superior conj	1652 Apr 26 07:13	6° Σ 34'10	-0°13'26
evening rise	1651 May 19 20:37	6° Π 54'15		minimum elong	1652 Apr 26 07:52	6° Σ 37'41	0°13'18
	1651 May 31 23:17	0° Σ		behind sun begin	1652 Apr 26 04:56	6° Σ 21'58	
evening max el	1651 Jun 14 21:58	18° Σ 22'41	24°54'08	behind sun end	1652 Apr 26 10:47	6° Σ 53'25	
desc. node	1651 Jun 19 05:23	21° Σ 58'02		asc. node	1652 Apr 27 13:51	9° Σ 19'26	
retrograde	1651 Jun 28 21:16	25° Σ 28'10		evening rise	1652 May 03 08:26	21° Σ 44'48	
evening set	1651 Jul 04 03:10	24° Σ 25'22			1652 May 07 08:39	0° Π	
min. Earth dist.	1651 Jul 09 09:20	21° Σ 37'15	0.57323 AU	evening max el	1652 May 26 11:48	28° Π 55'07	23°19'48
inferior conj	1651 Jul 12 08:37	19° Σ 39'16	-4°52'13		1652 May 27 15:43	0° Σ	
minimum elong	1651 Jul 12 06:22	19° Σ 43'02	4°52'05	desc. node	1652 Jun 05 02:24	5° Σ 05'59	
morning rise	1651 Jul 20 12:16	15° Σ 30'28		retrograde	1652 Jun 09 01:11	5° Σ 41'29	
direct	1651 Jul 23 02:28	15° Σ 11'13		evening set	1652 Jun 12 19:06	5° Σ 10'41	
morning max el	1651 Aug 01 02:50	19° Σ 23'53	19°12'25	min. Earth dist.	1652 Jun 19 21:46	1° Σ 56'11	0.55773 AU
asc. node	1651 Aug 07 16:01	27° Σ 33'38		inferior conj	1652 Jun 21 19:47	0° Σ 48'17	-4°11'17
	1651 Aug 09 04:54	0° Ω		minimum elong	1652 Jun 21 12:49	0° Σ 58'38	4°09'52
morning set	1651 Aug 18 02:11	16° Ω 30'21			1652 Jun 23 04:46	30° Σ Π	
	1651 Aug 24 21:14	0° Π		morning rise	1652 Jun 30 09:08	26° Π 53'49	
				direct	1652 Jul 03 03:39	26° Π 35'06	
superior conj	1651 Aug 26 07:34	2° Π 47'20	1°44'20		1652 Jul 11 23:37	0° Σ	
minimum elong	1651 Aug 26 08:45	2° Π 53'08	1°44'18	morning max el	1652 Jul 13 17:11	1° Σ 28'35	20°20'59

asc. node	1652 Jul 24 13:04	16°☿11'13		asc. node	1653 Jul 11 10:08	5°☿21'10	
	1652 Jul 31 18:24	0°♌		morning set	1653 Jul 16 16:39	15°☿54'39	
morning set	1652 Aug 01 07:24	1°♌06'11			1653 Jul 23 09:04	0°♌	
superior conj	1652 Aug 08 22:53	16°♌47'11	1°45'31	superior conj	1653 Jul 23 23:11	1°♌14'01	1°39'35
minimum elong	1652 Aug 08 22:23	16°♌44'36	1°45'31	minimum elong	1653 Jul 23 21:29	1°♌05'08	1°39'28
max. Earth dist.	1652 Aug 14 01:41	26°♌54'13	1.36405 AU	max. Earth dist.	1653 Jul 27 15:19	8°♌48'57	1.34793 AU
	1652 Aug 15 16:38	0°♍		evening rise	1653 Aug 01 03:22	17°♌43'19	
evening rise	1652 Aug 18 00:36	4°♍20'49			1653 Aug 07 19:34	0°♍	
desc. node	1652 Sep 01 01:43	28°♍01'55		desc. node	1653 Aug 18 22:45	18°♍02'04	
	1652 Sep 02 08:38	0°♎			1653 Aug 27 14:54	0°♎	
evening max el	1652 Sep 22 18:25	26°♎08'43	26°00'17	evening max el	1653 Sep 05 06:46	9°♎44'04	26°53'11
	1652 Sep 27 06:04	0°♏		retrograde	1653 Sep 18 09:47	17°♎00'03	
retrograde	1652 Oct 05 06:36	3°♏15'22		evening set	1653 Sep 25 03:39	14°♎16'55	
evening set	1652 Oct 11 11:48	0°♏40'03		min. Earth dist.	1653 Sep 29 02:43	10°♎18'41	0.65628 AU
	1652 Oct 12 05:43	30°♏♎		inferior conj	1653 Sep 30 23:40	8°♎08'04	-2°07'45
min. Earth dist.	1652 Oct 15 17:53	26°♎05'07	0.66676 AU	minimum elong	1653 Oct 01 03:03	7°♎58'13	2°06'25
inferior conj	1652 Oct 17 02:50	24°♎21'55	-1°09'39	morning rise	1653 Oct 07 03:06	2°♎28'07	
minimum elong	1652 Oct 17 04:39	24°♎16'13	1°08'54	asc. node	1653 Oct 07 09:18	2°♎20'30	
asc. node	1652 Oct 20 12:15	20°♎26'13		direct	1653 Oct 09 22:55	1°♎44'08	
morning rise	1652 Oct 22 21:51	18°♎29'52		morning max el	1653 Oct 16 12:27	5°♎18'21	18°18'51
direct	1652 Oct 26 01:52	17°♎32'18			1653 Nov 02 08:41	0°♏	
morning max el	1652 Nov 01 23:23	21°♎23'10	18°58'04	morning set	1653 Nov 04 15:31	3°♏43'05	
	1652 Nov 08 20:22	0°♐		desc. node	1653 Nov 14 22:00	20°♏15'16	
morning set	1652 Nov 24 03:00	23°♏25'20		superior conj	1653 Nov 19 17:52	27°♏54'02	-0°31'52
desc. node	1652 Nov 28 00:58	29°♏33'44		minimum elong	1653 Nov 19 13:44	27°♏37'44	0°31'18
	1652 Nov 28 07:40	0°♑			1653 Nov 21 01:52	0°♑	
max. Earth dist.	1652 Dec 08 23:38	16°♑43'58	1.44952 AU	max. Earth dist.	1653 Nov 21 18:46	1°♑06'28	1.45097 AU
superior conj	1652 Dec 10 16:30	19°♑24'54	-1°18'00	evening rise	1653 Dec 06 01:29	23°♑28'03	
minimum elong	1652 Dec 10 07:53	18°♑50'57	1°17'04		1653 Dec 10 05:40	0°♒	
	1652 Dec 17 08:41	0°♒		greatest brilliancy	1653 Dec 17 05:24	10°♒51'03	-0.7m
evening rise	1652 Dec 25 20:16	13°♒40'29		evening max el	1653 Dec 29 16:49	27°♒52'41	19°21'44
	1653 Jan 04 22:05	0°♓			1654 Jan 01 00:56	0°♓	
evening max el	1653 Jan 15 08:18	14°♓24'33	18°39'28	asc. node	1654 Jan 03 08:35	1°♓25'10	
asc. node	1653 Jan 16 11:33	15°♓29'39		retrograde	1654 Jan 05 19:56	1°♓58'37	
retrograde	1653 Jan 21 23:43	18°♓06'09		evening set	1654 Jan 09 06:11	0°♓49'59	
evening set	1653 Jan 25 03:07	17°♓10'20			1654 Jan 10 08:22	30°♓♒	
inferior conj	1653 Jan 30 21:31	11°♓33'13	3°34'55	inferior conj	1654 Jan 14 19:16	24°♓57'00	3°11'55
minimum elong	1653 Jan 30 19:48	11°♓38'21	3°34'43	minimum elong	1654 Jan 14 16:47	25°♓05'00	3°11'24
min. Earth dist.	1653 Feb 01 19:27	9°♓15'04	0.64961 AU	min. Earth dist.	1654 Jan 16 02:13	23°♓17'04	0.66252 AU
morning rise	1653 Feb 05 12:03	5°♓24'18		morning rise	1654 Jan 20 03:10	18°♓45'03	
direct	1653 Feb 12 05:50	2°♓32'14		direct	1654 Jan 26 10:10	15°♓58'05	
desc. node	1653 Feb 24 00:08	8°♓48'07		morning max el	1654 Feb 07 23:11	23°♓23'56	26°04'37
morning max el	1653 Feb 25 13:45	10°♓19'11	27°07'44	desc. node	1654 Feb 10 21:11	26°♓30'54	
	1653 Mar 13 02:46	0°♈			1654 Feb 13 20:24	0°♈	
	1653 Mar 30 23:50	0°♉			1654 Mar 06 11:08	0°♈	
morning set	1653 Apr 02 03:54	4°♉08'35		morning set	1654 Mar 16 04:10	17°♈03'03	
max. Earth dist.	1653 Apr 06 17:44	13°♉14'17	1.33935 AU	max. Earth dist.	1654 Mar 20 02:42	24°♈31'23	1.35399 AU
					1654 Mar 22 21:35	0°♉	
superior conj	1653 Apr 10 10:28	20°♉53'36	-0°41'10	superior conj	1654 Mar 25 06:28	4°♉46'04	-1°08'29
minimum elong	1653 Apr 10 12:32	21°♉04'25	0°40'45	minimum elong	1654 Mar 25 09:50	5°♉03'13	1°07'55
asc. node	1653 Apr 14 10:53	29°♉23'51		asc. node	1654 Apr 01 07:55	19°♉18'41	
	1653 Apr 14 17:42	0°♊		evening rise	1654 Apr 02 02:24	20°♉53'41	
evening rise	1653 Apr 17 19:02	6°♊27'03			1654 Apr 06 15:49	0°♊	
	1653 Apr 30 13:34	0°♋		evening max el	1654 Apr 20 10:25	20°♊37'35	20°23'50
evening max el	1653 May 08 06:04	9°♋31'54	21°45'46	retrograde	1654 May 01 06:32	25°♊52'29	
retrograde	1653 May 20 17:16	15°♋38'47		evening set	1654 May 03 08:07	25°♊41'50	
desc. node	1653 May 22 23:23	15°♋27'21		desc. node	1654 May 09 20:24	23°♋13'11	
evening set	1653 May 23 06:38	15°♋24'08		inferior conj	1654 May 12 11:21	21°♋43'50	-0°45'47
inferior conj	1653 Jun 01 16:31	11°♋21'30	-2°43'11	minimum elong	1654 May 12 09:11	21°♋46'59	0°45'00
minimum elong	1653 Jun 01 09:26	11°♋31'25	2°40'56	min. Earth dist.	1654 May 13 22:33	20°♋52'30	0.55131 AU
min. Earth dist.	1653 Jun 01 09:46	11°♋30'57	0.54983 AU	morning rise	1654 May 21 09:03	17°♋29'18	
morning rise	1653 Jun 10 13:19	7°♋26'28		direct	1654 May 25 03:08	16°♋58'51	
direct	1653 Jun 13 15:53	7°♋05'12		morning max el	1654 Jun 07 14:05	23°♋32'07	23°28'42
morning max el	1653 Jun 25 20:07	12°♋48'56	21°48'35		1654 Jun 13 09:26	0°♌	
	1653 Jul 08 11:58	0°♍					

asc. node	1654 Jun 28 07:12	24° Π 55'00			1655 Apr 26 12:41	30° \mathbb{R} Υ	
	1654 Jun 30 18:29	0° \mathfrak{D}		morning rise	1655 May 01 06:56	27° Υ 38'32	
morning set	1654 Jul 01 04:03	0° \mathfrak{D} 50'13		direct	1655 May 06 00:30	26° Υ 47'16	
					1655 May 15 07:15	0° \mathfrak{B}	
superior conj	1654 Jul 08 05:27	15° \mathfrak{D} 58'45	1°27'55	morning max el	1655 May 20 04:37	3° \mathfrak{B} 59'37	25°08'59
minimum elong	1654 Jul 08 03:08	15° \mathfrak{D} 46'20	1°27'38		1655 Jun 07 16:21	0° Π	
max. Earth dist.	1654 Jul 10 14:25	21° \mathfrak{D} 02'36	1.33561 AU	asc. node	1655 Jun 15 04:15	14° Π 45'41	
	1654 Jul 14 22:13	0° \mathcal{O}		morning set	1655 Jun 15 15:54	15° Π 47'00	
evening rise	1654 Jul 15 18:43	1° \mathcal{O} 42'55			1655 Jun 22 05:33	0° \mathfrak{D}	
	1654 Jul 31 17:17	0° \mathfrak{M}					
desc. node	1654 Aug 05 19:46	7° \mathfrak{M} 33'19		superior conj	1655 Jun 22 15:21	0° \mathfrak{D} 53'33	1°11'33
evening max el	1654 Aug 18 18:28	23° \mathfrak{M} 04'04	27°22'14	minimum elong	1655 Jun 22 12:57	0° \mathfrak{D} 40'27	1°11'10
	1654 Aug 29 12:38	0° \mathfrak{L}		max. Earth dist.	1655 Jun 23 21:09	3° \mathfrak{D} 35'52	1.32727 AU
retrograde	1654 Sep 01 07:08	0° \mathfrak{L} 22'12		evening rise	1655 Jun 29 18:57	16° \mathfrak{D} 08'24	
	1654 Sep 03 23:08	30° \mathbb{R} \mathfrak{M}			1655 Jul 06 21:31	0° \mathcal{O}	
evening set	1654 Sep 08 09:55	27° \mathfrak{M} 40'03		desc. node	1655 Jul 23 16:48	26° \mathcal{O} 23'06	
min. Earth dist.	1654 Sep 12 02:58	24° \mathfrak{M} 17'07	0.64221 AU		1655 Jul 26 14:47	0° \mathfrak{M}	
inferior conj	1654 Sep 14 12:42	21° \mathfrak{M} 44'29	-3°04'28	evening max el	1655 Aug 01 03:19	5° \mathfrak{M} 54'56	27°21'29
minimum elong	1654 Sep 14 17:25	21° \mathfrak{M} 32'01	3°02'53	retrograde	1655 Aug 14 22:11	13° \mathfrak{M} 11'45	
morning rise	1654 Sep 21 01:55	16° \mathfrak{M} 20'10		evening set	1655 Aug 22 03:02	10° \mathfrak{M} 42'38	
direct	1654 Sep 23 16:00	15° \mathfrak{M} 46'13		min. Earth dist.	1655 Aug 25 17:01	7° \mathfrak{M} 48'38	0.62477 AU
asc. node	1654 Sep 24 06:22	15° \mathfrak{M} 48'04		inferior conj	1655 Aug 28 15:00	5° \mathfrak{M} 03'33	-3°56'04
morning max el	1654 Sep 30 04:20	19° \mathfrak{M} 12'26	17°56'46	minimum elong	1655 Aug 28 20:16	4° \mathfrak{M} 51'07	3°54'46
	1654 Oct 08 03:47	0° \mathfrak{L}		morning rise	1655 Sep 04 14:56	29° \mathcal{O} 58'10	
morning set	1654 Oct 17 08:00	15° \mathfrak{L} 22'53			1655 Sep 04 12:56	30° \mathbb{R} \mathcal{O}	
	1654 Oct 26 00:32	0° \mathfrak{M}		direct	1655 Sep 07 01:48	29° \mathcal{O} 31'10	
					1655 Sep 09 13:42	0° \mathfrak{M}	
superior conj	1654 Oct 30 09:23	7° \mathfrak{M} 09'07	0°16'09	asc. node	1655 Sep 11 03:27	0° \mathfrak{M} 47'29	
minimum elong	1654 Oct 30 11:12	7° \mathfrak{M} 16'32	0°15'53	morning max el	1655 Sep 13 20:04	2° \mathfrak{M} 57'50	17°52'33
behind sun begin	1654 Oct 30 09:17	7° \mathfrak{M} 08'46		morning set	1655 Sep 29 22:30	28° \mathfrak{M} 05'14	
behind sun end	1654 Oct 30 13:07	7° \mathfrak{M} 24'18			1655 Oct 01 00:10	0° \mathfrak{L}	
desc. node	1654 Nov 01 19:04	11° \mathfrak{M} 01'47					
max. Earth dist.	1654 Nov 04 13:31	15° \mathfrak{M} 27'02	1.44504 AU	superior conj	1655 Oct 11 02:53	17° \mathfrak{L} 41'18	0°55'58
	1654 Nov 13 20:36	0° \mathfrak{X}		minimum elong	1655 Oct 11 07:25	18° \mathfrak{L} 00'31	0°55'23
evening rise	1654 Nov 15 13:31	2° \mathfrak{X} 37'49		max. Earth dist.	1655 Oct 18 04:21	29° \mathfrak{L} 24'40	1.43252 AU
	1654 Dec 03 20:24	0° \mathfrak{Z}			1655 Oct 18 13:04	0° \mathfrak{M}	
evening max el	1654 Dec 12 20:28	11° \mathfrak{Z} 22'26	20°19'04	desc. node	1655 Oct 19 16:07	1° \mathfrak{M} 49'13	
retrograde	1654 Dec 20 17:50	16° \mathfrak{Z} 00'56		evening rise	1655 Oct 25 22:34	11° \mathfrak{M} 44'30	
asc. node	1654 Dec 21 05:37	15° \mathfrak{Z} 59'35			1655 Nov 06 23:55	0° \mathfrak{X}	
evening set	1654 Dec 24 12:30	14° \mathfrak{Z} 38'05		evening max el	1655 Nov 25 18:25	24° \mathfrak{X} 52'30	21°28'45
inferior conj	1654 Dec 29 22:25	8° \mathfrak{Z} 32'03	2°38'56		1655 Dec 03 07:20	0° \mathfrak{Z}	
minimum elong	1654 Dec 29 19:46	8° \mathfrak{Z} 41'01	2°38'10	retrograde	1655 Dec 04 15:12	0° \mathfrak{Z} 08'55	
min. Earth dist.	1654 Dec 30 15:56	7° \mathfrak{Z} 32'46	0.67142 AU		1655 Dec 05 22:08	30° \mathbb{R} \mathfrak{X}	
morning rise	1655 Jan 04 02:52	2° \mathfrak{Z} 18'49		asc. node	1655 Dec 08 02:40	29° \mathfrak{X} 01'57	
	1655 Jan 08 02:25	30° \mathbb{R} \mathfrak{X}		evening set	1655 Dec 08 20:09	28° \mathfrak{X} 30'26	
direct	1655 Jan 09 19:53	29° \mathfrak{X} 46'50		inferior conj	1655 Dec 14 04:40	22° \mathfrak{X} 14'45	1°58'07
	1655 Jan 11 15:06	0° \mathfrak{Z}		minimum elong	1655 Dec 14 02:20	22° \mathfrak{X} 22'47	1°57'16
morning max el	1655 Jan 21 07:49	6° \mathfrak{Z} 38'13	24°43'50	min. Earth dist.	1655 Dec 14 10:19	21° \mathfrak{X} 55'13	0.67649 AU
desc. node	1655 Jan 28 18:15	15° \mathfrak{Z} 11'38		morning rise	1655 Dec 19 08:22	16° \mathfrak{X} 02'02	
	1655 Feb 08 11:56	0° \approx		direct	1655 Dec 24 10:19	13° \mathfrak{X} 50'40	
morning set	1655 Feb 26 09:52	28° \approx 58'48		morning max el	1656 Jan 03 16:56	19° \mathfrak{X} 57'17	23°15'40
	1655 Feb 26 23:41	0° \mathfrak{X}			1656 Jan 12 05:38	0° \mathfrak{Z}	
max. Earth dist.	1655 Mar 02 01:37	5° \mathfrak{X} 33'36	1.37272 AU	desc. node	1656 Jan 15 15:18	4° \mathfrak{Z} 33'22	
					1656 Feb 01 17:04	0° \approx	
superior conj	1655 Mar 08 16:07	18° \mathfrak{X} 03'17	-1°33'26	morning set	1656 Feb 07 14:47	9° \approx 39'49	
minimum elong	1655 Mar 08 20:18	18° \mathfrak{X} 23'38	1°32'55	max. Earth dist.	1656 Feb 11 20:27	16° \approx 53'43	1.39390 AU
	1655 Mar 14 16:42	0° Υ					
evening rise	1655 Mar 17 04:17	4° Υ 58'12		superior conj	1656 Feb 19 11:26	0° \mathfrak{X} 35'20	-1°53'11
asc. node	1655 Mar 19 04:57	8° Υ 59'20		minimum elong	1656 Feb 19 15:12	0° \mathfrak{X} 52'47	1°52'54
	1655 Mar 31 21:29	0° \mathfrak{B}			1656 Feb 19 03:48	0° \mathfrak{X}	
evening max el	1655 Apr 03 02:19	2° \mathfrak{B} 22'12	19°20'01	evening rise	1656 Feb 28 21:51	18° \mathfrak{X} 33'19	
retrograde	1655 Apr 12 05:59	6° \mathfrak{B} 47'35		asc. node	1656 Mar 05 01:59	28° \mathfrak{X} 20'31	
evening set	1655 Apr 14 08:24	6° \mathfrak{B} 34'36			1656 Mar 05 23:55	0° Υ	
inferior conj	1655 Apr 22 18:27	2° \mathfrak{B} 26'21	1°07'01	evening max el	1656 Mar 16 04:05	14° Υ 43'43	18°36'12
minimum elong	1655 Apr 22 21:07	2° \mathfrak{B} 21'57	1°06'07	retrograde	1656 Mar 23 23:09	18° Υ 32'34	
min. Earth dist.	1655 Apr 25 13:18	0° \mathfrak{B} 36'30	0.56194 AU	evening set	1656 Mar 26 07:11	18° Υ 13'14	
desc. node	1655 Apr 26 17:26	29° Υ 52'48		inferior conj	1656 Apr 02 21:49	13° Υ 46'56	2°31'00

minimum elong	1656 Apr 03 01:52	13°♄39'05	2°29'57	inferior conj	1657 Mar 15 21:59	25°♄46'31	3°21'04
min. Earth dist.	1656 Apr 06 07:21	11°♄10'56	0.57949 AU	minimum elong	1657 Mar 16 00:50	25°♄40'06	3°20'37
morning rise	1656 Apr 10 17:31	8°♄26'36		min. Earth dist.	1657 Mar 19 06:34	22°♄47'02	0.60056 AU
desc. node	1656 Apr 12 14:28	7°♄41'05		morning rise	1657 Mar 22 23:05	20°♄03'03	
direct	1656 Apr 16 12:23	7°♄02'10		direct	1657 Mar 29 12:49	18°♄01'33	
morning max el	1656 Apr 30 21:27	14°♄39'09	26°33'50	desc. node	1657 Mar 30 11:30	18°♄03'59	
	1656 May 13 04:33	0°♄		morning max el	1657 Apr 12 19:50	25°♄51'02	27°29'44
	1656 May 29 19:03	0°♄			1657 Apr 16 16:40	0°♄	
morning set	1656 May 30 02:36	0°♄39'35			1657 May 06 14:17	0°♄	
asc. node	1656 Jun 01 01:18	4°♄47'45		morning set	1657 May 14 10:19	15°♄20'48	
				asc. node	1657 May 18 22:19	24°♄55'32	
superior conj	1656 Jun 06 02:58	15°♄51'53	0°51'20	max. Earth dist.	1657 May 20 20:33	29°♄07'59	1.32225 AU
minimum elong	1656 Jun 06 00:58	15°♄40'49	0°50'57		1657 May 21 06:02	0°♄	
max. Earth dist.	1656 Jun 06 08:26	16°♄21'54	1.32282 AU				
	1656 Jun 12 15:33	0°♄		superior conj	1657 May 21 14:31	0°♄46'35	0°27'58
evening rise	1656 Jun 13 01:16	0°♄51'01		minimum elong	1657 May 21 13:18	0°♄39'52	0°27'43
	1656 Jun 28 23:17	0°♄		evening rise	1657 May 28 11:14	15°♄41'48	
desc. node	1656 Jul 09 13:48	14°♄14'08			1657 Jun 04 14:35	0°♄	
evening max el	1656 Jul 13 06:58	18°♄05'46	26°47'46	evening max el	1657 Jun 25 03:41	29°♄29'50	25°42'44
retrograde	1656 Jul 27 05:55	25°♄19'46			1657 Jun 25 16:32	0°♄	
evening set	1656 Aug 03 02:34	23°♄17'34		desc. node	1657 Jun 26 10:47	0°♄41'17	
min. Earth dist.	1656 Aug 06 20:53	20°♄39'32	0.60485 AU	retrograde	1657 Jul 09 04:16	6°♄39'15	
inferior conj	1656 Aug 10 03:12	17°♄57'23	-4°36'27	evening set	1657 Jul 15 03:50	5°♄14'27	
minimum elong	1656 Aug 10 07:24	17°♄48'39	4°35'51	min. Earth dist.	1657 Jul 19 16:02	2°♄34'55	0.58427 AU
morning rise	1656 Aug 17 14:09	13°♄13'29		inferior conj	1657 Jul 22 21:42	0°♄15'28	-4°55'51
direct	1656 Aug 20 00:26	12°♄50'53		minimum elong	1657 Jul 22 22:25	0°♄14'11	4°55'50
morning max el	1656 Aug 27 08:33	16°♄26'56	18°07'20		1657 Jul 23 06:17	30°♄	
asc. node	1656 Aug 28 00:30	17°♄07'03		morning rise	1657 Jul 30 19:21	25°♄54'06	
	1656 Sep 05 21:24	0°♄		direct	1657 Aug 02 07:38	25°♄33'55	
morning set	1656 Sep 12 05:07	11°♄33'56		morning max el	1657 Aug 10 14:31	29°♄29'53	18°42'31
					1657 Aug 11 02:52	0°♄	
superior conj	1656 Sep 21 22:33	29°♄30'23	1°23'43	asc. node	1657 Aug 14 21:33	4°♄30'51	
minimum elong	1656 Sep 22 02:39	29°♄48'45	1°23'19	morning set	1657 Aug 26 23:08	25°♄35'57	
	1656 Sep 22 05:10	0°♄			1657 Aug 29 05:16	0°♄	
max. Earth dist.	1656 Sep 29 13:39	12°♄45'08	1.41513 AU				
evening rise	1656 Oct 04 21:32	21°♄31'39		superior conj	1657 Sep 04 15:21	12°♄22'06	1°39'45
desc. node	1656 Oct 05 13:08	22°♄34'26		minimum elong	1657 Sep 04 17:40	12°♄33'04	1°39'37
	1656 Oct 10 06:06	0°♄		max. Earth dist.	1657 Sep 11 18:31	25°♄23'39	1.39504 AU
	1656 Oct 31 05:02	0°♄			1657 Sep 14 10:01	0°♄	
evening max el	1656 Nov 07 11:13	8°♄24'27	22°46'31	evening rise	1657 Sep 15 19:42	2°♄23'39	
retrograde	1656 Nov 17 10:21	14°♄19'31		desc. node	1657 Sep 22 10:09	13°♄13'48	
evening set	1656 Nov 22 03:27	12°♄24'15			1657 Oct 03 12:34	0°♄	
asc. node	1656 Nov 23 23:43	10°♄35'42		evening max el	1657 Oct 21 00:37	22°♄00'19	24°06'32
inferior conj	1656 Nov 27 12:05	6°♄02'43	1°11'02	retrograde	1657 Nov 01 01:57	28°♄29'41	
minimum elong	1656 Nov 27 10:31	6°♄08'08	1°10'23	evening set	1657 Nov 06 08:48	26°♄17'18	
min. Earth dist.	1656 Nov 27 06:53	6°♄20'40	0.67805 AU	asc. node	1657 Nov 10 20:45	21°♄08'39	
morning rise	1656 Dec 02 17:26	29°♄52'38		min. Earth dist.	1657 Nov 11 03:12	20°♄46'58	0.67630 AU
	1656 Dec 02 13:54	30°♄		inferior conj	1657 Nov 11 18:54	19°♄53'56	0°19'03
direct	1656 Dec 07 04:39	28°♄03'55		minimum elong	1657 Nov 11 18:26	19°♄55'30	0°18'50
	1656 Dec 12 07:53	0°♄		morning rise	1657 Nov 17 04:04	13°♄48'53	
morning max el	1656 Dec 16 05:46	3°♄22'46	21°49'25	direct	1657 Nov 21 01:44	12°♄22'10	
desc. node	1657 Jan 01 12:21	24°♄24'27		morning max el	1657 Nov 29 01:32	16°♄58'39	20°32'09
	1657 Jan 05 07:45	0°♄			1657 Dec 09 10:15	0°♄	
morning set	1657 Jan 17 14:29	18°♄56'35		desc. node	1657 Dec 19 09:23	14°♄36'40	
max. Earth dist.	1657 Jan 23 18:54	29°♄01'37	1.41494 AU	morning set	1657 Dec 27 14:52	27°♄11'43	
	1657 Jan 24 08:54	0°♄			1657 Dec 29 10:06	0°♄	
				max. Earth dist.	1658 Jan 06 01:23	12°♄06'59	1.43292 AU
superior conj	1657 Jan 31 11:20	12°♄09'52	-2°03'49				
minimum elong	1657 Jan 31 12:34	12°♄15'17	2°03'47	superior conj	1658 Jan 12 10:46	22°♄35'28	-2°00'28
	1657 Feb 10 08:01	0°♄		minimum elong	1658 Jan 12 07:05	22°♄20'10	2°00'20
evening rise	1657 Feb 11 03:38	1°♄30'30			1658 Jan 16 20:13	0°♄	
asc. node	1657 Feb 19 23:01	17°♄15'12		evening rise	1658 Jan 24 17:31	13°♄41'31	
evening max el	1657 Feb 27 12:32	27°♄33'17	18°12'22		1658 Feb 03 04:28	0°♄	
	1657 Mar 02 16:45	0°♄		asc. node	1658 Feb 06 20:03	5°♄35'09	
retrograde	1657 Mar 06 10:34	1°♄01'54		evening max el	1658 Feb 11 00:28	10°♄42'03	18°08'06
evening set	1657 Mar 09 00:24	0°♄33'44		retrograde	1658 Feb 17 12:39	14°♄05'52	
	1657 Mar 10 07:17	30°♄		evening set	1658 Feb 20 07:38	13°♄27'35	

inferior conj	1658 Feb 26 15:55	8°  19'30	3°42'27	asc. node	1659 Jan 24 17:05	23°  09'22	
minimum elong	1658 Feb 26 16:44	8°  17'25	3°42'25	evening max el	1659 Jan 25 12:55	24°  01'55	18°22'45
min. Earth dist.	1658 Mar 01 13:38	5°  21'36	0.62169 AU	retrograde	1659 Feb 01 00:51	27°  34'00	
morning rise	1658 Mar 05 00:34	2°  21'44		evening set	1659 Feb 04 00:56	26°  44'51	
	1658 Mar 10 03:58	30°  R		inferior conj	1659 Feb 09 23:30	21°  17'29	3°42'21
direct	1658 Mar 11 22:53	29°  50'10		minimum elong	1659 Feb 09 22:32	21°  20'14	3°42'19
	1658 Mar 13 18:49	0°  H		min. Earth dist.	1659 Feb 12 06:15	18°  41'05	0.64043 AU
desc. node	1658 Mar 17 08:32	1°  11'10		morning rise	1659 Feb 15 19:30	15°  11'20	
morning max el	1658 Mar 26 00:19	7°  44'36	27°49'19	direct	1659 Feb 22 16:56	12°  22'48	
	1658 Apr 12 01:06	0°  Y		desc. node	1659 Mar 04 05:34	16°  32'00	
morning set	1658 Apr 28 13:06	29°  Y44'22		morning max el	1659 Mar 08 08:58	20°  15'29	27°32'19
	1658 Apr 28 16:10	0°  B			1659 Mar 16 18:12	0°  H	
max. Earth dist.	1658 May 04 05:50	11°  B42'02	1.32560 AU		1659 Apr 05 01:47	0°  Y	
asc. node	1658 May 05 19:20	15°  B04'58		morning set	1659 Apr 12 08:26	13°  Y42'18	
				max. Earth dist.	1659 Apr 17 08:13	23°  Y51'14	1.33306 AU
superior conj	1658 May 06 00:19	15°  B32'05	0°02'12	superior conj	1659 Apr 20 06:33	0°  B02'32	-0°25'09
minimum elong	1658 May 06 00:13	15°  B31'30	0°02'11	minimum elong	1659 Apr 20 07:48	0°  B09'10	0°24'54
behind sun begin	1658 May 05 19:06	15°  B03'43			1659 Apr 20 06:05	0°  B	
behind sun end	1658 May 06 05:20	15°  B59'19		asc. node	1659 Apr 22 16:24	5°  B12'23	
evening rise	1658 May 12 22:55	0°  II34'12		evening rise	1659 Apr 27 10:28	15°  B21'50	
	1658 May 12 16:29	0°  II			1659 May 04 19:05	0°  II	
	1658 May 29 05:55	0°  B		evening max el	1659 May 19 09:14	20°  II43'44	22°38'52
evening max el	1658 Jun 06 18:34	10°  B14'06	24°14'53	desc. node	1659 May 31 04:48	27°  II11'54	
desc. node	1658 Jun 13 07:48	15°  B12'15		retrograde	1659 Jun 01 13:20	27°  II16'06	
retrograde	1658 Jun 20 14:51	17°  B12'47		evening set	1659 Jun 04 17:35	26°  II53'53	
evening set	1658 Jun 25 05:49	16°  B25'15		min. Earth dist.	1659 Jun 12 17:10	23°  II24'46	0.55326 AU
min. Earth dist.	1658 Jul 01 05:28	13°  B27'33	0.56594 AU	inferior conj	1659 Jun 13 23:56	22°  II40'52	-3°39'12
inferior conj	1658 Jul 03 20:03	11°  B49'36	-4°40'42	minimum elong	1659 Jun 13 16:08	22°  II52'00	3°37'12
minimum elong	1658 Jul 03 15:30	11°  B56'46	4°40'09	morning rise	1659 Jun 22 16:58	18°  II48'53	
morning rise	1658 Jul 12 03:54	7°  B48'06		direct	1659 Jun 25 14:17	18°  II29'40	
direct	1658 Jul 14 19:59	7°  B29'06		morning max el	1659 Jul 06 20:31	23°  II43'13	20°56'20
morning max el	1658 Jul 24 11:04	11°  B57'22	19°39'04		1659 Jul 12 08:46	0°  B	
asc. node	1658 Aug 01 18:35	22°  B44'43		asc. node	1659 Jul 19 15:38	11°  B37'09	
	1658 Aug 05 21:46	0°  O		morning set	1659 Jul 26 08:16	24°  B43'44	
morning set	1658 Aug 11 01:03	10°  O01'30			1659 Jul 28 21:14	0°  O	
superior conj	1658 Aug 18 23:47	26°  O00'46	1°45'49	superior conj	1659 Aug 02 19:23	10°  O13'46	1°43'48
minimum elong	1658 Aug 19 00:12	26°  O02'50	1°45'48	minimum elong	1659 Aug 02 18:18	10°  O08'12	1°43'45
	1658 Aug 21 00:37	0°  M		max. Earth dist.	1659 Aug 07 07:30	19°  O18'34	1.35668 AU
max. Earth dist.	1658 Aug 24 22:43	7°  M27'47	1.37480 AU	evening rise	1659 Aug 11 11:02	27°  O17'20	
evening rise	1658 Aug 28 17:27	14°  M21'46			1659 Aug 12 22:02	0°  M	
	1658 Sep 06 22:57	0°  A		desc. node	1659 Aug 27 04:11	23°  M55'32	
desc. node	1658 Sep 09 07:09	3°  A42'36			1659 Aug 31 06:56	0°  A	
	1658 Sep 28 07:08	0°  M		evening max el	1659 Sep 16 00:31	19°  A17'28	26°25'11
evening max el	1658 Oct 03 12:35	5°  M39'10	25°21'57	retrograde	1659 Sep 28 19:35	26°  A29'31	
retrograde	1658 Oct 15 13:12	12°  M34'48		evening set	1659 Oct 05 06:37	23°  A49'39	
evening set	1658 Oct 21 10:29	10°  M06'39		min. Earth dist.	1659 Oct 09 09:32	19°  A30'37	0.66275 AU
min. Earth dist.	1658 Oct 25 20:50	5°  M11'18	0.67124 AU	inferior conj	1659 Oct 10 23:34	17°  A34'58	-1°34'17
inferior conj	1658 Oct 26 23:20	3°  M45'31	-0°36'35	minimum elong	1659 Oct 11 02:03	17°  A27'23	1°33'15
minimum elong	1658 Oct 27 00:16	3°  M42'30	0°36'10	asc. node	1659 Oct 15 14:50	12°  A40'43	
asc. node	1658 Oct 28 17:48	1°  M31'26		morning rise	1659 Oct 16 22:01	11°  A47'58	
	1658 Oct 30 01:48	30°  R		direct	1659 Oct 19 22:13	10°  A56'44	
morning rise	1658 Nov 01 14:16	27°  A48'08		morning max el	1659 Oct 26 15:33	14°  A39'16	18°39'25
direct	1658 Nov 05 00:10	26°  A40'56			1659 Nov 06 21:56	0°  M	
	1658 Nov 11 10:35	0°  M		morning set	1659 Nov 16 09:11	14°  M58'15	
morning max el	1658 Nov 12 05:11	0°  M45'09	19°28'05	desc. node	1659 Nov 23 03:28	25°  M41'13	
greatest brilliancy	1658 Nov 25 18:28	18°  M57'39	-0.7m		1659 Nov 25 21:07	0°  A	
	1658 Dec 02 23:49	0°  A		superior conj	1659 Dec 02 10:56	10°  A20'07	-0°59'30
desc. node	1658 Dec 06 06:24	5°  A03'38		minimum elong	1659 Dec 02 03:36	9°  A51'16	0°58'35
morning set	1658 Dec 06 13:25	5°  A30'51		max. Earth dist.	1659 Dec 02 08:54	10°  A12'08	1.45107 AU
max. Earth dist.	1658 Dec 19 15:08	25°  A57'05	1.44544 AU		1659 Dec 14 22:00	0°  A	
	1658 Dec 22 04:19	0°  B		evening rise	1659 Dec 18 05:42	5°  B17'32	
superior conj	1658 Dec 23 07:48	1°  B49'41	-1°38'52	greatest brilliancy	1659 Dec 26 05:40	18°  B03'47	-0.8m
minimum elong	1658 Dec 22 23:31	1°  B16'35	1°38'09		1660 Jan 03 01:05	0°  B	
evening rise	1659 Jan 06 11:11	24°  B58'17		evening max el	1660 Jan 08 23:26	7°  B27'58	18°55'21
	1659 Jan 09 11:17	0°  B					

asc. node	1660 Jan 11 14:07	9° \approx 45'11		max. Earth dist.	1660 Nov 14 03:40	24° \mathbb{M} 33'45	1.44927 AU
retrograde	1660 Jan 15 19:08	11° \approx 19'12			1660 Nov 17 14:45	0° \mathbb{X}	
evening set	1660 Jan 19 01:11	10° \approx 18'11		evening rise	1660 Nov 27 02:19	14° \mathbb{X} 45'24	
inferior conj	1660 Jan 24 17:02	4° \approx 33'48	3°26'32		1660 Dec 06 23:50	0° \mathbb{Z}	
minimum elong	1660 Jan 24 14:55	4° \approx 40'23	3°26'13	greatest brilliancy	1660 Dec 10 04:25	4° \mathbb{Z} 49'24	-0.7m
min. Earth dist.	1660 Jan 26 08:25	2° \approx 31'13	0.65560 AU	evening max el	1660 Dec 22 06:04	20° \mathbb{Z} 57'14	19°44'25
	1660 Jan 28 12:38	30° \mathbb{R} \mathbb{Z}		asc. node	1660 Dec 28 11:09	25° \mathbb{Z} 08'08	
morning rise	1660 Jan 30 04:18	28° \mathbb{Z} 23'02		retrograde	1660 Dec 29 16:23	25° \mathbb{Z} 16'22	
direct	1660 Feb 05 17:53	25° \mathbb{Z} 31'42		evening set	1661 Jan 02 05:53	24° \mathbb{Z} 02'06	
	1660 Feb 15 07:36	0° \approx		inferior conj	1661 Jan 07 17:25	18° \mathbb{Z} 03'20	2°59'02
morning max el	1660 Feb 18 18:53	3° \approx 12'02	26°43'37	minimum elong	1661 Jan 07 14:48	18° \mathbb{Z} 12'00	2°58'23
desc. node	1660 Feb 19 02:37	3° \approx 31'36		min. Earth dist.	1661 Jan 08 18:33	16° \mathbb{Z} 40'17	0.66678 AU
	1660 Mar 10 01:36	0° \mathbb{H}		morning rise	1661 Jan 12 23:28	11° \mathbb{Z} 50'25	
morning set	1660 Mar 25 16:57	27° \mathbb{H} 04'00		direct	1661 Jan 19 00:49	9° \mathbb{Z} 08'34	
	1660 Mar 27 05:38	0° \mathbb{Y}		morning max el	1661 Jan 31 03:57	16° \mathbb{Z} 22'01	25°31'44
max. Earth dist.	1660 Mar 30 00:01	5° \mathbb{Y} 26'24	1.34500 AU	desc. node	1661 Feb 04 23:41	21° \mathbb{Z} 41'48	
					1661 Feb 11 11:39	0° \approx	
superior conj	1660 Apr 03 07:03	14° \mathbb{Y} 11'01	-0°52'55		1661 Mar 02 23:36	0° \mathbb{H}	
minimum elong	1660 Apr 03 09:42	14° \mathbb{Y} 24'46	0°52'25	morning set	1661 Mar 08 10:09	9° \mathbb{H} 36'18	
asc. node	1660 Apr 08 13:27	25° \mathbb{Y} 12'59		max. Earth dist.	1661 Mar 12 03:57	16° \mathbb{H} 32'55	1.36148 AU
evening rise	1660 Apr 10 19:58	29° \mathbb{Y} 57'56					
	1660 Apr 10 20:22	0° \mathbb{B}		superior conj	1661 Mar 17 23:09	27° \mathbb{H} 50'14	-1°19'31
	1660 Apr 28 20:08	0° \mathbb{I}		minimum elong	1661 Mar 18 02:58	28° \mathbb{H} 09'17	1°18'56
evening max el	1660 Apr 30 07:13	1° \mathbb{I} 29'58	21°08'58		1661 Mar 19 01:03	0° \mathbb{Y}	
retrograde	1660 May 12 03:15	7° \mathbb{I} 16'08		evening rise	1661 Mar 26 01:21	14° \mathbb{Y} 16'15	
evening set	1660 May 14 09:13	7° \mathbb{I} 04'22		asc. node	1661 Mar 26 10:30	15° \mathbb{Y} 02'36	
desc. node	1660 May 17 01:49	6° \mathbb{I} 21'43			1661 Apr 03 06:55	0° \mathbb{B}	
inferior conj	1660 May 23 18:03	3° \mathbb{I} 05'36	-1°55'04	evening max el	1661 Apr 12 16:42	12° \mathbb{B} 52'49	19°54'21
minimum elong	1660 May 23 12:42	3° \mathbb{I} 13'09	1°53'12	retrograde	1661 Apr 22 19:06	17° \mathbb{B} 45'09	
min. Earth dist.	1660 May 24 05:37	2° \mathbb{I} 49'17	0.54917 AU	evening set	1661 Apr 24 19:56	17° \mathbb{B} 34'10	
	1660 May 29 19:25	30° \mathbb{R} \mathbb{B}		inferior conj	1661 May 03 16:42	13° \mathbb{B} 33'45	0°04'27
morning rise	1660 Jun 01 16:19	29° \mathbb{B} 04'23		minimum elong	1661 May 03 16:54	13° \mathbb{B} 33'27	0°04'23
direct	1660 Jun 04 24:00	28° \mathbb{B} 40'32		transit middle	1661 May 03 16:54	13° \mathbb{B} 33'27	0°04'23
	1660 Jun 10 22:12	0° \mathbb{I}		transit begin	1661 May 03 13:05	13° \mathbb{B} 39'17	
morning max el	1660 Jun 17 19:19	4° \mathbb{I} 46'36	22°30'21	transit end	1661 May 03 20:43	13° \mathbb{B} 27'36	
	1660 Jul 05 00:48	0° \mathbb{E}		desc. node	1661 May 03 22:51	13° \mathbb{B} 24'22	
asc. node	1660 Jul 05 12:42	0° \mathbb{E} 57'51		min. Earth dist.	1661 May 05 19:28	12° \mathbb{B} 16'27	0.55480 AU
morning set	1660 Jul 09 18:38	9° \mathbb{E} 35'35		morning rise	1661 May 12 11:39	9° \mathbb{B} 05'37	
				direct	1661 May 16 15:08	8° \mathbb{B} 27'43	
superior conj	1660 Jul 16 22:33	24° \mathbb{E} 49'14	1°35'17	morning max el	1661 May 30 11:04	15° \mathbb{B} 20'01	24°12'07
minimum elong	1660 Jul 16 20:32	24° \mathbb{E} 38'31	1°35'05		1661 Jun 11 01:54	0° \mathbb{I}	
	1660 Jul 19 09:42	0° \mathbb{Q}		asc. node	1661 Jun 22 09:46	20° \mathbb{I} 39'26	
max. Earth dist.	1660 Jul 20 00:50	1° \mathbb{Q} 18'30	1.34211 AU	morning set	1661 Jun 24 06:24	24° \mathbb{I} 31'54	
evening rise	1660 Jul 24 19:38	10° \mathbb{Q} 56'49			1661 Jun 26 19:52	0° \mathbb{E}	
	1660 Aug 04 07:05	0° \mathbb{P}					
desc. node	1660 Aug 13 01:12	13° \mathbb{P} 44'26		superior conj	1661 Jul 01 06:38	9° \mathbb{E} 38'54	1°21'29
	1660 Aug 25 18:51	0° \mathbb{L}		minimum elong	1661 Jul 01 04:13	9° \mathbb{E} 25'51	1°21'10
evening max el	1660 Aug 28 12:36	2° \mathbb{L} 46'51	27°08'50	max. Earth dist.	1661 Jul 03 03:22	13° \mathbb{E} 40'03	1.33159 AU
retrograde	1660 Sep 10 20:36	10° \mathbb{L} 05'24		evening rise	1661 Jul 08 15:11	25° \mathbb{E} 08'37	
evening set	1660 Sep 17 18:47	7° \mathbb{L} 21'14			1661 Jul 11 01:45	0° \mathbb{Q}	
min. Earth dist.	1660 Sep 21 14:59	3° \mathbb{L} 38'25	0.65068 AU		1661 Jul 28 18:54	0° \mathbb{P}	
inferior conj	1660 Sep 23 17:24	1° \mathbb{L} 17'16	-2°32'09	desc. node	1661 Jul 30 22:12	2° \mathbb{P} 59'18	
minimum elong	1660 Sep 23 21:24	1° \mathbb{L} 06'03	2°30'41	evening max el	1661 Aug 10 23:30	15° \mathbb{P} 56'04	27°25'54
	1660 Sep 24 21:20	30° \mathbb{R} \mathbb{P}		retrograde	1661 Aug 24 15:26	23° \mathbb{P} 13'57	
morning rise	1660 Sep 30 00:52	25° \mathbb{P} 43'40		evening set	1661 Aug 31 19:55	20° \mathbb{P} 36'00	
asc. node	1660 Oct 01 11:53	25° \mathbb{P} 12'54		min. Earth dist.	1661 Sep 04 11:13	17° \mathbb{P} 26'09	0.63513 AU
direct	1660 Oct 02 17:49	25° \mathbb{P} 04'31		inferior conj	1661 Sep 07 02:14	14° \mathbb{P} 46'53	-3°27'17
morning max el	1660 Oct 09 06:11	28° \mathbb{P} 34'38	18°07'20	minimum elong	1661 Sep 07 07:19	14° \mathbb{P} 34'01	3°25'47
	1660 Oct 10 13:56	0° \mathbb{L}		morning rise	1661 Sep 13 19:54	9° \mathbb{P} 29'56	
morning set	1660 Oct 27 10:05	25° \mathbb{L} 52'10		direct	1661 Sep 16 08:13	8° \mathbb{P} 59'20	
	1660 Oct 29 22:00	0° \mathbb{M}		asc. node	1661 Sep 18 08:58	9° \mathbb{P} 19'41	
desc. node	1660 Nov 09 00:32	16° \mathbb{M} 25'12		morning max el	1661 Sep 22 22:17	12° \mathbb{P} 25'03	17°52'39
					1661 Oct 04 21:52	0° \mathbb{L}	
superior conj	1660 Nov 10 16:04	19° \mathbb{M} 02'48	-0°11'02	morning set	1661 Oct 09 12:40	8° \mathbb{L} 00'19	
minimum elong	1660 Nov 10 14:40	18° \mathbb{M} 57'15	0°10'51				
behind sun begin	1660 Nov 10 06:33	18° \mathbb{M} 24'57		superior conj	1661 Oct 21 17:50	28° \mathbb{L} 47'56	0°34'25
behind sun end	1660 Nov 10 22:47	19° \mathbb{M} 29'32		minimum elong	1661 Oct 21 21:17	29° \mathbb{L} 02'11	0°33'56

	1661 Oct 22 11:19	0°♄		superior conj	1662 Oct 02 22:53	9°♄53'51	1°09'16
desc. node	1661 Oct 26 21:33	7°♄12'00		minimum elong	1662 Oct 03 03:30	10°♄13'55	1°08'43
max. Earth dist.	1661 Oct 27 20:49	8°♄45'22	1.44043 AU	max. Earth dist.	1662 Oct 10 09:56	22°♄30'42	1.42562 AU
evening rise	1661 Nov 06 10:50	23°♄47'51		desc. node	1662 Oct 13 18:33	27°♄58'44	
	1661 Nov 10 12:02	0°♄			1662 Oct 15 00:49	0°♄	
	1661 Dec 01 09:51	0°♄		evening rise	1662 Oct 17 00:06	3°♄07'33	
evening max el	1661 Dec 05 07:24	4°♄27'18	20°47'32		1662 Nov 03 22:48	0°♄	
retrograde	1661 Dec 13 14:09	9°♄21'09		evening max el	1662 Nov 18 03:07	17°♄58'20	22°01'10
asc. node	1661 Dec 15 08:12	9°♄03'58		retrograde	1662 Nov 27 10:39	23°♄30'49	
evening set	1661 Dec 17 12:58	7°♄51'54		evening set	1662 Dec 01 20:40	21°♄45'08	
inferior conj	1661 Dec 22 22:06	1°♄41'38	2°22'30	asc. node	1662 Dec 02 05:14	21°♄27'08	
minimum elong	1661 Dec 22 19:32	1°♄50'26	2°21'40	inferior conj	1662 Dec 07 05:03	15°♄26'37	1°38'50
min. Earth dist.	1661 Dec 23 10:29	0°♄59'18	0.67404 AU	minimum elong	1662 Dec 07 03:00	15°♄33'44	1°38'03
	1661 Dec 24 03:58	30°♄♄		min. Earth dist.	1662 Dec 07 05:58	15°♄23'29	0.67760 AU
morning rise	1661 Dec 28 01:56	25°♄28'31		morning rise	1662 Dec 12 09:13	9°♄15'02	
direct	1662 Jan 02 12:43	23°♄04'33		direct	1662 Dec 17 04:51	7°♄13'17	
morning max el	1662 Jan 13 12:13	29°♄37'25	24°06'39	morning max el	1662 Dec 26 22:28	12°♄58'43	22°38'21
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desc. node	1662 Jan 22 20:45	10°♄41'30			1663 Jan 09 13:01	0°♄	
	1662 Feb 05 08:12	0°♄			1663 Jan 29 06:22	0°♄	
morning set	1662 Feb 18 06:02	21°♄01'57		morning set	1663 Jan 29 22:40	1°♄06'44	
max. Earth dist.	1662 Feb 21 23:59	27°♄37'32	1.38160 AU	max. Earth dist.	1663 Feb 03 20:07	9°♄17'42	1.40312 AU
	1662 Feb 23 07:36	0°♄					
				superior conj	1663 Feb 11 14:59	22°♄59'01	-1°59'04
superior conj	1662 Mar 01 03:16	10°♄49'55	-1°42'40	minimum elong	1663 Feb 11 17:59	23°♄12'37	1°58'55
minimum elong	1662 Mar 01 07:28	11°♄09'58	1°42'12		1663 Feb 15 10:39	0°♄	
evening rise	1662 Mar 10 00:02	28°♄09'05		evening rise	1663 Feb 21 13:03	11°♄29'11	
	1662 Mar 10 22:38	0°♄		asc. node	1663 Feb 28 04:32	23°♄46'18	
asc. node	1662 Mar 13 07:31	4°♄35'36			1663 Mar 03 22:21	0°♄	
evening max el	1662 Mar 26 13:12	24°♄54'07	18°58'52	evening max el	1663 Mar 09 18:07	7°♄28'09	18°23'31
retrograde	1662 Apr 04 01:20	29°♄01'31		retrograde	1663 Mar 17 02:47	11°♄06'34	
evening set	1662 Apr 06 06:10	28°♄46'05		evening set	1663 Mar 19 13:22	10°♄43'39	
inferior conj	1662 Apr 14 07:52	24°♄30'43	1°46'50	inferior conj	1663 Mar 26 20:17	6°♄08'06	2°56'12
minimum elong	1662 Apr 14 11:33	24°♄24'13	1°45'42	minimum elong	1663 Mar 27 00:02	6°♄00'21	2°55'22
min. Earth dist.	1662 Apr 17 11:09	22°♄19'11	0.56885 AU	min. Earth dist.	1663 Mar 30 06:50	3°♄19'19	0.58830 AU
desc. node	1662 Apr 20 19:53	20°♄17'14		morning rise	1663 Apr 03 08:02	0°♄36'42	
morning rise	1662 Apr 22 13:53	19°♄28'40			1663 Apr 04 14:31	30°♄♄	
direct	1662 Apr 27 18:50	18°♄24'21		desc. node	1663 Apr 07 16:56	29°♄05'08	
morning max el	1662 May 12 01:42	25°♄48'06	25°47'47	direct	1663 Apr 09 11:54	28°♄56'40	
	1662 May 16 00:22	0°♄			1663 Apr 14 12:35	0°♄	
	1662 Jun 04 02:37	0°♄		morning max el	1663 Apr 23 20:44	6°♄39'22	27°01'48
morning set	1662 Jun 08 17:57	9°♄27'07			1663 May 11 06:41	0°♄	
asc. node	1662 Jun 09 06:49	10°♄35'12		morning set	1663 May 24 03:36	24°♄15'29	
					1663 May 26 20:26	0°♄	
superior conj	1662 Jun 15 17:28	24°♄35'25	1°03'23	asc. node	1663 May 27 03:50	0°♄39'57	
minimum elong	1662 Jun 15 15:10	24°♄22'52	1°03'00				
max. Earth dist.	1662 Jun 16 12:35	26°♄20'12	1.32497 AU	superior conj	1663 May 31 05:14	9°♄32'29	0°41'45
	1662 Jun 18 04:53	0°♄		minimum elong	1663 May 31 03:31	9°♄23'00	0°41'25
evening rise	1662 Jun 22 18:19	9°♄42'15		max. Earth dist.	1663 May 31 00:52	9°♄08'27	1.32215 AU
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desc. node	1662 Jul 17 19:12	21°♄26'15			1663 Jun 09 18:27	0°♄	
evening max el	1662 Jul 24 06:40	28°♄31'39	27°11'17		1663 Jun 27 09:24	0°♄	
	1662 Jul 25 21:36	0°♄		desc. node	1663 Jul 04 16:12	8°♄44'51	
retrograde	1662 Aug 07 03:15	5°♄46'25		evening max el	1663 Jul 06 07:22	10°♄22'06	26°23'31
evening set	1662 Aug 14 06:06	3°♄27'27		retrograde	1663 Jul 20 07:00	17°♄34'16	
min. Earth dist.	1662 Aug 17 20:52	0°♄42'03	0.61652 AU	evening set	1663 Jul 26 20:36	15°♄46'52	
	1662 Aug 18 16:07	30°♄♄		min. Earth dist.	1663 Jul 30 20:23	13°♄10'50	0.59603 AU
inferior conj	1662 Aug 20 23:00	27°♄56'24	-4°15'05	inferior conj	1663 Aug 03 04:02	10°♄35'47	-4°48'01
minimum elong	1662 Aug 21 04:03	27°♄45'03	4°14'02	minimum elong	1663 Aug 03 07:04	10°♄29'51	4°47'44
morning rise	1662 Aug 28 03:34	22°♄59'37		morning rise	1663 Aug 10 19:37	6°♄01'44	
direct	1662 Aug 30 13:59	22°♄34'37		direct	1663 Aug 13 06:37	5°♄40'16	
asc. node	1662 Sep 05 06:02	24°♄54'46		morning max el	1663 Aug 20 23:03	9°♄22'58	18°19'49
morning max el	1662 Sep 06 12:57	26°♄04'02	17°56'25	asc. node	1663 Aug 23 03:05	11°♄43'16	
	1662 Sep 09 21:45	0°♄			1663 Sep 03 09:44	0°♄	
morning set	1662 Sep 22 10:43	21°♄04'31		morning set	1663 Sep 05 22:40	4°♄48'31	
	1662 Sep 27 08:38	0°♄					
				superior conj	1663 Sep 15 04:16	22°♄11'37	1°31'52




































































































































































































































minimum elong	1663 Sep 15 07:41	22° \mathbb{M} 27'17	1°31'35	minimum elong	1664 Aug 28 05:54	5° \mathbb{M} 32'41	1°43'21
	1663 Sep 19 12:28	0° \mathbb{L}		max. Earth dist.	1664 Sep 03 20:54	17° \mathbb{M} 54'27	1.38628 AU
max. Earth dist.	1663 Sep 22 17:24	5° \mathbb{L} 34'25	1.40672 AU	evening rise	1664 Sep 07 16:52	24° \mathbb{M} 40'59	
evening rise	1663 Sep 27 08:19	13° \mathbb{L} 20'06			1664 Sep 10 19:45	0° \mathbb{L}	
desc. node	1663 Sep 30 15:33	18° \mathbb{L} 41'35		desc. node	1664 Sep 16 12:33	9° \mathbb{L} 16'49	
	1663 Oct 07 22:06	0° \mathbb{M}			1664 Sep 30 15:11	0° \mathbb{M}	
	1663 Oct 30 07:02	0° \mathbb{J}		evening max el	1664 Oct 13 06:25	15° \mathbb{M} 07'15	24°39'35
evening max el	1663 Oct 31 18:03	1° \mathbb{J} 30'52	23°20'36	retrograde	1664 Oct 24 18:27	21° \mathbb{M} 49'47	
retrograde	1663 Nov 11 04:27	7° \mathbb{J} 41'32		evening set	1664 Oct 30 07:20	19° \mathbb{M} 30'21	
evening set	1663 Nov 16 03:20	5° \mathbb{J} 38'39		min. Earth dist.	1664 Nov 03 22:11	14° \mathbb{M} 14'31	0.67452 AU
asc. node	1663 Nov 19 02:17	2° \mathbb{J} 29'39		inferior conj	1664 Nov 04 18:26	13° \mathbb{M} 07'07	-0°04'14
	1663 Nov 20 23:29	30° $\mathbb{R}\mathbb{M}$		minimum elong	1664 Nov 04 18:32	13° \mathbb{M} 06'47	0°04'10
min. Earth dist.	1663 Nov 21 02:38	29° \mathbb{M} 49'12	0.67770 AU	transit middle	1664 Nov 04 18:32	13° \mathbb{M} 06'47	0°04'10
inferior conj	1663 Nov 21 12:24	29° \mathbb{M} 15'41	0°49'29	transit begin	1664 Nov 04 15:53	13° \mathbb{M} 15'38	
minimum elong	1663 Nov 21 11:16	29° \mathbb{M} 19'35	0°49'01	transit end	1664 Nov 04 21:11	12° \mathbb{M} 57'56	
morning rise	1663 Nov 26 19:09	23° \mathbb{M} 07'36		asc. node	1664 Nov 04 23:20	12° \mathbb{M} 50'47	
direct	1663 Dec 01 00:20	21° \mathbb{M} 28'42		morning rise	1664 Nov 10 05:49	7° \mathbb{M} 04'53	
morning max el	1663 Dec 09 14:07	26° \mathbb{M} 28'34	21°15'12	direct	1664 Nov 13 22:08	5° \mathbb{M} 47'00	
	1663 Dec 12 18:59	0° \mathbb{J}		morning max el	1664 Nov 21 13:17	10° \mathbb{M} 08'55	20°03'03
desc. node	1663 Dec 27 14:49	20° \mathbb{J} 17'15			1664 Dec 06 11:15	0° \mathbb{J}	
	1664 Jan 03 02:02	0° \mathbb{Z}		desc. node	1664 Dec 13 11:50	10° \mathbb{J} 35'56	
morning set	1664 Jan 09 10:50	9° \mathbb{Z} 51'52		morning set	1664 Dec 18 07:03	17° \mathbb{J} 58'23	
max. Earth dist.	1664 Jan 16 21:56	21° \mathbb{Z} 50'48	1.42308 AU		1664 Dec 25 23:55	0° \mathbb{Z}	
	1664 Jan 21 19:29	0° \mathbb{A}		max. Earth dist.	1664 Dec 29 07:04	5° \mathbb{Z} 14'15	1.43894 AU
superior conj	1664 Jan 24 04:58	4° \mathbb{A} 04'45	-2°04'23	superior conj	1665 Jan 03 16:54	13° \mathbb{Z} 58'26	-1°53'41
minimum elong	1664 Jan 24 04:20	4° \mathbb{A} 02'06	2°04'24	minimum elong	1665 Jan 03 10:55	13° \mathbb{Z} 34'01	1°53'19
evening rise	1664 Feb 04 12:36	24° \mathbb{A} 07'51			1665 Jan 13 07:16	0° \mathbb{A}	
	1664 Feb 07 18:37	0° \mathbb{H}		evening rise	1665 Jan 16 18:21	5° \mathbb{A} 56'01	
asc. node	1664 Feb 15 01:33	12° \mathbb{H} 27'27		asc. node	1665 Jan 31 22:37	0° \mathbb{H} 29'22	
evening max el	1664 Feb 21 04:23	20° \mathbb{H} 26'41	18°08'11		1665 Jan 31 13:38	0° \mathbb{H}	
retrograde	1664 Feb 27 21:09	23° \mathbb{H} 51'55		evening max el	1665 Feb 03 16:52	3° \mathbb{H} 40'48	18°12'10
evening set	1664 Mar 01 13:06	23° \mathbb{H} 19'43		retrograde	1665 Feb 10 03:59	7° \mathbb{H} 06'45	
inferior conj	1664 Mar 08 04:34	18° \mathbb{H} 23'28	3°33'11	evening set	1665 Feb 13 01:02	6° \mathbb{H} 24'05	
minimum elong	1664 Mar 08 06:34	18° \mathbb{H} 18'42	3°32'58	inferior conj	1665 Feb 19 04:47	1° \mathbb{H} 07'53	3°44'39
min. Earth dist.	1664 Mar 11 09:19	15° \mathbb{H} 21'38	0.60964 AU	minimum elong	1665 Feb 19 04:47	1° \mathbb{H} 07'54	3°44'39
morning rise	1664 Mar 14 22:12	12° \mathbb{H} 32'37			1665 Feb 20 05:49	30° $\mathbb{R}\mathbb{A}$	
direct	1664 Mar 21 16:39	10° \mathbb{H} 17'04		min. Earth dist.	1665 Feb 21 20:31	28° \mathbb{A} 16'46	0.62998 AU
desc. node	1664 Mar 24 13:58	10° \mathbb{H} 40'09		morning rise	1665 Feb 25 07:33	25° \mathbb{A} 05'56	
morning max el	1664 Apr 04 22:08	18° \mathbb{H} 10'12	27°42'44	direct	1665 Mar 04 06:36	22° \mathbb{A} 24'58	
	1664 Apr 14 20:12	0° \mathbb{Y}		desc. node	1665 Mar 11 11:01	24° \mathbb{A} 48'15	
	1664 May 02 23:11	0° \mathbb{B}			1665 Mar 17 20:21	0° \mathbb{H}	
morning set	1664 May 07 09:33	8° \mathbb{B} 50'59		morning max el	1665 Mar 18 04:39	0° \mathbb{H} 20'31	27°46'22
asc. node	1664 May 13 00:51	20° \mathbb{B} 49'23			1665 Apr 08 20:59	0° \mathbb{Y}	
max. Earth dist.	1664 May 13 12:20	21° \mathbb{B} 51'51	1.32316 AU	morning set	1665 Apr 21 09:32	23° \mathbb{Y} 04'58	
					1665 Apr 24 18:27	0° \mathbb{B}	
superior conj	1664 May 14 16:18	24° \mathbb{B} 24'38	0°17'18	max. Earth dist.	1665 Apr 26 18:58	4° \mathbb{B} 15'57	1.32819 AU
minimum elong	1664 May 14 15:31	24° \mathbb{B} 20'20	0°17'08				
	1664 May 17 05:30	0° \mathbb{I}		superior conj	1665 Apr 29 00:50	9° \mathbb{B} 04'47	-0°09'15
evening rise	1664 May 21 13:25	9° \mathbb{I} 21'37		minimum elong	1665 Apr 29 01:17	9° \mathbb{B} 07'12	0°09'11
	1664 Jun 01 05:00	0° \mathbb{E}		behind sun begin	1665 Apr 28 20:58	8° \mathbb{B} 43'56	
evening max el	1664 Jun 17 01:01	21° \mathbb{E} 27'07	25°07'19	behind sun end	1665 Apr 29 05:35	9° \mathbb{B} 30'28	
desc. node	1664 Jun 20 13:13	24° \mathbb{E} 27'30		asc. node	1665 Apr 29 21:53	10° \mathbb{B} 58'34	
retrograde	1664 Jul 01 01:00	28° \mathbb{E} 34'10		evening rise	1665 May 06 01:15	24° \mathbb{B} 12'44	
evening set	1664 Jul 06 11:47	27° \mathbb{E} 25'46			1665 May 08 20:03	0° \mathbb{I}	
min. Earth dist.	1664 Jul 11 12:41	24° \mathbb{E} 40'18	0.57598 AU		1665 May 27 15:29	0° \mathbb{E}	
inferior conj	1664 Jul 14 14:08	22° \mathbb{E} 36'07	-4°54'32	evening max el	1665 May 29 14:59	2° \mathbb{E} 01'49	23°34'11
minimum elong	1664 Jul 14 12:42	22° \mathbb{E} 38'34	4°54'28	desc. node	1665 Jun 07 10:15	7° \mathbb{E} 58'21	
morning rise	1664 Jul 22 16:15	18° \mathbb{E} 24'14		retrograde	1665 Jun 12 06:39	8° \mathbb{E} 51'48	
direct	1664 Jul 25 05:51	18° \mathbb{E} 04'50		evening set	1665 Jun 16 05:53	8° \mathbb{E} 17'14	
morning max el	1664 Aug 03 01:29	22° \mathbb{E} 12'49	19°03'59	min. Earth dist.	1665 Jun 23 01:22	5° \mathbb{E} 07'24	0.55967 AU
asc. node	1664 Aug 09 00:07	29° \mathbb{E} 30'14		inferior conj	1665 Jun 25 04:07	3° \mathbb{E} 51'28	-4°20'36
	1664 Aug 09 08:02	0° \mathbb{O}		minimum elong	1665 Jun 24 21:39	4° \mathbb{E} 01'11	4°19'27
morning set	1664 Aug 19 20:26	19° \mathbb{O} 01'32			1665 Jul 03 08:17	30° $\mathbb{R}\mathbb{I}$	
	1664 Aug 25 09:30	0° \mathbb{M}		morning rise	1665 Jul 03 16:03	29° \mathbb{I} 55'26	
				direct	1665 Jul 06 09:55	29° \mathbb{I} 36'40	
superior conj	1664 Aug 28 04:25	5° \mathbb{M} 25'31	1°43'25		1665 Jul 09 09:16	0° \mathbb{E}	

morning max el	1665 Jul 16 17:29	4°☿23'23	20°09'27		1666 Jul 09 18:04	0°☿	
asc. node	1665 Jul 26 21:09	18°☿01'43		asc. node	1666 Jul 13 18:12	7°☿07'06	
	1665 Aug 02 06:18	0°♌		morning set	1666 Jul 19 09:40	18°☿21'38	
morning set	1665 Aug 04 00:53	3°♌34'43			1666 Jul 24 22:36	0°♌	
superior conj	1665 Aug 11 18:06	19°♌20'02	1°45'50	superior conj	1666 Jul 26 17:14	3°♌43'16	1°40'53
minimum elong	1665 Aug 11 17:49	19°♌18'37	1°45'49	minimum elong	1666 Jul 26 15:41	3°♌35'11	1°40'47
max. Earth dist.	1665 Aug 17 02:05	29°♌48'20	1.36676 AU	max. Earth dist.	1666 Jul 30 14:31	11°♌41'55	1.35009 AU
	1665 Aug 17 04:32	0°♍		evening rise	1666 Aug 04 00:12	20°♌20'58	
evening rise	1665 Aug 20 23:41	7°♍05'19			1666 Aug 09 05:36	0°♍	
desc. node	1665 Sep 03 09:35	29°♍39'32		desc. node	1666 Aug 21 06:37	19°♍43'14	
	1665 Sep 03 14:53	0°♎			1666 Aug 28 13:35	0°♎	
evening max el	1665 Sep 25 18:25	28°♎47'05	25°50'52	evening max el	1666 Sep 08 06:43	12°♎23'30	26°46'40
	1665 Sep 27 01:20	0°♏		retrograde	1666 Sep 21 07:45	19°♎38'29	
retrograde	1665 Oct 08 03:47	5°♏51'03		evening set	1666 Sep 27 23:59	16°♎55'59	
evening set	1665 Oct 14 06:56	3°♏17'34		min. Earth dist.	1666 Oct 02 00:03	12°♎52'25	0.65807 AU
	1665 Oct 17 11:08	30°♏♎		inferior conj	1666 Oct 03 19:10	10°♎45'35	-1°58'57
min. Earth dist.	1665 Oct 18 14:09	28°♎37'15	0.66802 AU	minimum elong	1666 Oct 03 22:19	10°♎36'18	1°57'42
inferior conj	1665 Oct 19 21:22	26°♎58'33	-1°00'54	morning rise	1666 Oct 09 21:15	5°♎03'45	
minimum elong	1665 Oct 19 22:57	26°♎53'33	1°00'13	asc. node	1666 Oct 09 17:27	5°♎08'54	
asc. node	1665 Oct 22 20:23	23°♎27'24		direct	1666 Oct 12 18:11	4°♎17'57	
morning rise	1665 Oct 25 15:16	21°♎04'56		morning max el	1666 Oct 19 08:24	7°♎53'54	18°23'40
direct	1665 Oct 28 20:45	20°♎04'55			1666 Nov 03 16:18	0°♏	
morning max el	1665 Nov 04 19:57	23°♎58'54	19°05'20	morning set	1666 Nov 07 20:41	6°♏45'46	
	1665 Nov 09 20:32	0°♐		desc. node	1666 Nov 17 05:55	21°♏48'27	
morning set	1665 Nov 27 12:34	26°♏40'59			1666 Nov 22 10:15	0°♑	
	1665 Nov 29 15:30	0°♒		superior conj	1666 Nov 23 05:43	1°♑16'37	-0°39'17
desc. node	1665 Nov 30 08:53	1°♑07'53		minimum elong	1666 Nov 23 00:38	0°♑56'37	0°38'37
max. Earth dist.	1665 Dec 11 22:44	19°♑16'41	1.44871 AU	max. Earth dist.	1666 Nov 24 17:52	3°♑38'45	1.45125 AU
superior conj	1665 Dec 14 04:36	22°♑49'12	-1°24'02	evening rise	1666 Dec 09 10:58	26°♑43'47	
minimum elong	1665 Dec 13 19:50	22°♑14'35	1°23'06		1666 Dec 11 12:52	0°♒	
	1665 Dec 18 17:05	0°♓		greatest brilliancy	1666 Dec 19 20:43	13°♓01'55	-0.8m
evening rise	1665 Dec 29 02:21	16°♓48'05			1667 Jan 01 01:49	0°♓	
	1666 Jan 06 03:56	0°♔		evening max el	1667 Jan 01 13:59	0°♓31'59	19°14'20
evening max el	1666 Jan 18 04:53	17°♔04'21	18°34'36	asc. node	1667 Jan 05 16:44	3°♓47'20	
asc. node	1666 Jan 18 19:40	17°♔40'44		retrograde	1667 Jan 08 14:55	4°♓33'47	
retrograde	1666 Jan 24 19:04	20°♔42'59		evening set	1667 Jan 12 00:03	3°♓27'07	
evening set	1666 Jan 27 21:38	19°♔48'52			1667 Jan 15 15:31	30°♒♓	
inferior conj	1666 Feb 02 17:01	14°♔14'14	3°37'17	inferior conj	1667 Jan 17 13:46	27°♓36'10	3°16'06
minimum elong	1666 Feb 02 15:29	14°♔18'47	3°37'08	minimum elong	1667 Jan 17 11:22	27°♓43'51	3°15'37
min. Earth dist.	1666 Feb 04 17:13	11°♔51'06	0.64738 AU	min. Earth dist.	1667 Jan 18 22:49	25°♓50'22	0.66089 AU
morning rise	1666 Feb 08 08:52	8°♔06'01		morning rise	1667 Jan 22 22:27	21°♓24'27	
direct	1666 Feb 15 03:50	5°♔14'28		direct	1667 Jan 29 07:14	18°♓36'09	
desc. node	1666 Feb 26 08:04	10°♔54'56		morning max el	1667 Feb 10 23:34	26°♓06'00	26°15'20
morning max el	1666 Feb 28 13:56	13°♔03'00	27°15'00	desc. node	1667 Feb 13 05:07	28°♓27'07	
	1666 Mar 14 05:37	0°♕			1667 Feb 14 14:11	0°♔	
	1666 Apr 01 10:50	0°♖			1667 Mar 07 19:06	0°♕	
morning set	1666 Apr 05 00:42	6°♖48'36		morning set	1667 Mar 19 03:16	19°♕50'22	
max. Earth dist.	1666 Apr 09 17:03	16°♖10'20	1.33759 AU	max. Earth dist.	1667 Mar 23 03:52	27°♕31'53	1.35153 AU
					1667 Mar 24 10:00	0°♖	
superior conj	1666 Apr 13 04:55	23°♖26'52	-0°36'56	superior conj	1667 Mar 28 02:11	7°♖23'29	-1°04'28
minimum elong	1666 Apr 13 06:46	23°♖36'36	0°36'34	minimum elong	1667 Mar 28 05:23	7°♖39'49	1°03'54
	1666 Apr 16 07:00	0°♗		asc. node	1667 Apr 03 16:01	21°♖00'08	
asc. node	1666 Apr 16 18:57	1°♗03'38		evening rise	1667 Apr 04 20:09	23°♖25'26	
evening rise	1666 Apr 20 12:09	8°♗56'12			1667 Apr 08 02:11	0°♘	
	1666 May 01 15:27	0°♙		evening max el	1667 Apr 23 10:40	23°♘35'24	20°34'59
evening max el	1666 May 11 08:07	12°♙35'31	21°59'12	retrograde	1667 May 04 13:10	28°♘58'42	
retrograde	1666 May 24 00:04	18°♙49'22		evening set	1667 May 06 15:25	28°♘47'59	
desc. node	1666 May 25 07:17	18°♙45'32		desc. node	1667 May 12 04:17	26°♘51'21	
evening set	1666 May 26 16:50	18°♙33'10		inferior conj	1667 May 15 20:29	24°♘50'14	-1°04'07
min. Earth dist.	1666 Jun 04 13:08	14°♙46'48	0.55045 AU	minimum elong	1667 May 15 17:27	24°♘54'36	1°03'00
inferior conj	1666 Jun 05 02:19	14°♙28'18	-2°59'06	min. Earth dist.	1667 May 17 01:45	24°♘08'03	0.55040 AU
minimum elong	1666 Jun 04 18:51	14°♙38'47	2°56'51	morning rise	1667 May 24 18:39	20°♘39'47	
morning rise	1666 Jun 13 22:19	10°♙34'45		direct	1667 May 28 09:38	20°♘11'29	
direct	1666 Jun 16 23:25	10°♙14'08		morning max el	1667 Jun 10 17:04	26°♘37'53	23°13'31
morning max el	1666 Jun 28 21:58	15°♙49'45	21°34'34				

	1667 Jun 13 22:55	0°♂		morning rise	1668 May 03 15:27	0°♂45'26	
asc. node	1667 Jun 30 15:15	26°♂37'56			1668 May 07 07:16	30°♂'♂	
	1667 Jul 02 07:02	0°♂		direct	1668 May 08 05:11	29°♂'58'05	
morning set	1667 Jul 03 20:52	3°♂16'50			1668 May 09 03:05	0°♂	
				morning max el	1668 May 22 07:46	7°♂06'04	24°54'42
superior conj	1667 Jul 10 22:48	18°♂26'16	1°30'00		1668 Jun 08 00:24	0°♂	
minimum elong	1667 Jul 10 20:33	18°♂14'13	1°29'46	asc. node	1668 Jun 16 12:18	16°♂26'19	
max. Earth dist.	1667 Jul 13 12:13	23°♂52'27	1.33715 AU	morning set	1668 Jun 17 08:44	18°♂13'36	
	1667 Jul 16 11:06	0°♂			1668 Jun 22 19:38	0°♂	
evening rise	1667 Jul 18 13:55	4°♂15'57					
	1667 Aug 01 23:05	0°♂		superior conj	1668 Jun 24 08:17	3°♂19'58	1°14'18
desc. node	1667 Aug 08 03:38	9°♂19'45		minimum elong	1668 Jun 24 05:52	3°♂06'48	1°13'56
evening max el	1667 Aug 21 18:31	25°♂46'16	27°19'37	max. Earth dist.	1668 Jun 25 17:51	6°♂22'26	1.32821 AU
	1667 Aug 26 21:39	0°♂		evening rise	1668 Jul 01 13:01	18°♂38'06	
retrograde	1667 Sep 04 06:01	3°♂04'43			1668 Jul 07 07:55	0°♂	
evening set	1667 Sep 11 07:52	0°♂21'32		desc. node	1668 Jul 25 00:38	28°♂16'43	
	1667 Sep 11 18:46	30°♂'♂			1668 Jul 26 08:39	0°♂	
min. Earth dist.	1667 Sep 15 01:38	26°♂53'43	0.64455 AU	evening max el	1668 Aug 03 03:53	8°♂42'07	27°23'40
inferior conj	1667 Sep 17 09:31	24°♂23'42	-2°56'04	retrograde	1668 Aug 16 22:11	15°♂59'33	
minimum elong	1667 Sep 17 14:04	24°♂11'29	2°54'32	evening set	1668 Aug 24 03:12	13°♂27'38	
morning rise	1667 Sep 23 21:13	18°♂56'58		min. Earth dist.	1668 Aug 27 17:18	10°♂29'53	0.62756 AU
direct	1667 Sep 26 11:58	18°♂21'48		inferior conj	1668 Aug 30 13:35	7°♂45'46	-3°48'50
asc. node	1667 Sep 26 14:28	18°♂21'51		minimum elong	1668 Aug 30 18:51	7°♂33'05	3°47'27
morning max el	1667 Oct 03 00:05	21°♂48'40	17°58'56	morning rise	1668 Sep 06 11:54	2°♂37'19	
	1667 Oct 09 07:47	0°♂		direct	1668 Sep 08 23:00	2°♂09'32	
morning set	1667 Oct 20 09:15	18°♂13'58		asc. node	1668 Sep 12 11:31	3°♂07'46	
	1667 Oct 27 09:44	0°♂		morning max el	1668 Sep 15 16:00	5°♂35'46	17°51'56
					1668 Oct 01 10:02	0°♂	
superior conj	1667 Nov 02 18:00	10°♂21'48	0°09'15	morning set	1668 Oct 01 20:50	0°♂47'56	
minimum elong	1667 Nov 02 19:05	10°♂26'10	0°09'05				
behind sun begin	1667 Nov 02 10:26	9°♂51'16		superior conj	1668 Oct 13 07:21	20°♂41'42	0°50'41
behind sun end	1667 Nov 03 03:44	11°♂01'00		minimum elong	1668 Oct 13 11:42	21°♂00'04	0°50'07
desc. node	1667 Nov 04 02:58	12°♂34'18			1668 Oct 18 22:09	0°♂	
max. Earth dist.	1667 Nov 07 12:39	17°♂59'48	1.44636 AU	max. Earth dist.	1668 Oct 20 03:54	2°♂00'41	1.43475 AU
	1667 Nov 15 04:28	0°♂		desc. node	1668 Oct 20 23:58	3°♂21'39	
evening rise	1667 Nov 19 00:46	5°♂56'56		evening rise	1668 Oct 28 09:03	15°♂00'54	
greatest brilliancy	1667 Dec 03 07:33	27°♂35'31	-0.6m		1668 Nov 07 05:42	0°♂	
	1667 Dec 04 23:05	0°♂		evening max el	1668 Nov 27 17:10	27°♂31'26	21°17'50
evening max el	1667 Dec 15 18:23	14°♂01'17	20°09'37		1668 Nov 30 09:33	0°♂	
retrograde	1667 Dec 23 12:44	18°♂34'44		retrograde	1668 Dec 06 10:18	2°♂42'05	
asc. node	1667 Dec 23 13:45	18°♂34'44		asc. node	1668 Dec 09 10:46	1°♂51'22	
evening set	1667 Dec 27 06:00	17°♂14'10		evening set	1668 Dec 10 13:33	1°♂06'07	
inferior conj	1668 Jan 01 16:16	11°♂09'49	2°44'29		1668 Dec 11 19:11	30°♂'♂	
minimum elong	1668 Jan 01 13:36	11°♂18'46	2°43'44	inferior conj	1668 Dec 15 22:10	24°♂51'44	2°04'45
min. Earth dist.	1668 Jan 02 11:42	10°♂04'24	0.67035 AU	minimum elong	1668 Dec 15 19:46	25°♂00'02	2°03'55
morning rise	1668 Jan 06 21:01	4°♂56'31		min. Earth dist.	1668 Dec 16 05:33	24°♂26'16	0.67594 AU
direct	1668 Jan 12 16:11	2°♂21'48		morning rise	1668 Dec 21 01:49	18°♂38'47	
morning max el	1668 Jan 24 08:20	9°♂19'29	24°56'32	direct	1668 Dec 26 06:04	16°♂23'58	
desc. node	1668 Jan 31 02:11	17°♂00'22		morning max el	1669 Jan 05 17:07	22°♂37'49	23°28'53
	1668 Feb 09 16:21	0°♂			1669 Jan 12 03:51	0°♂	
	1668 Feb 28 09:54	0°♂		desc. node	1669 Jan 16 23:13	6°♂17'01	
morning set	1668 Feb 29 12:09	1°♂56'11			1669 Feb 02 00:50	0°♂	
max. Earth dist.	1668 Mar 04 03:56	8°♂34'18	1.36970 AU	morning set	1669 Feb 09 21:10	12°♂49'46	
				max. Earth dist.	1669 Feb 13 22:42	19°♂49'11	1.39068 AU
superior conj	1668 Mar 10 13:37	20°♂46'35	-1°29'57		1669 Feb 19 14:47	0°♂	
minimum elong	1668 Mar 10 17:44	21°♂06'47	1°29'23				
	1668 Mar 15 04:52	0°♂		superior conj	1669 Feb 21 11:22	3°♂26'38	-1°50'41
evening rise	1668 Mar 18 23:01	7°♂33'41		minimum elong	1669 Feb 21 15:19	3°♂45'03	1°50'22
asc. node	1668 Mar 20 13:03	10°♂43'17		evening rise	1669 Mar 02 18:02	21°♂14'01	
	1668 Mar 31 14:19	0°♂		asc. node	1669 Mar 07 10:05	0°♂08'05	
evening max el	1668 Apr 05 00:55	5°♂14'11	19°28'16		1669 Mar 07 08:21	0°♂	
retrograde	1668 Apr 14 10:21	9°♂46'18		evening max el	1669 Mar 19 01:27	17°♂31'13	18°41'26
evening set	1668 Apr 16 12:04	9°♂34'01		retrograde	1669 Mar 27 00:34	21°♂24'11	
inferior conj	1668 Apr 25 01:02	5°♂28'10	0°51'28	evening set	1669 Mar 29 07:44	21°♂05'58	
minimum elong	1668 Apr 25 03:09	5°♂24'45	0°50'43	inferior conj	1669 Apr 06 01:12	16°♂42'43	2°20'29
min. Earth dist.	1668 Apr 27 16:16	3°♂46'23	0.55979 AU	minimum elong	1669 Apr 06 05:15	16°♂35'03	2°19'22
desc. node	1668 Apr 28 01:20	3°♂32'17		min. Earth dist.	1669 Apr 09 09:43	14°♂12'19	0.57662 AU

morning rise	1669 Apr 13 23:41	11° Υ 26'50	direct	1670 Apr 01 13:47	21° X 00'08	
desc. node	1669 Apr 14 22:22	11° Υ 02'51	desc. node	1670 Apr 01 19:25	21° X 00'17	
direct	1669 Apr 19 15:11	10° Υ 07'42	morning max el	1670 Apr 15 21:15	28° X 47'45	27°23'35
morning max el	1669 May 03 23:50	17° Υ 41'45	26°22'42	1670 Apr 17 01:50	0° Υ	
	1669 May 14 04:42	0° B		1670 May 07 23:23	0° B	
	1669 May 31 07:49	0° Π		1670 May 17 03:57	17° B 49'53	
morning set	1669 Jun 01 19:40	3° Π 06'39	asc. node	1670 May 21 06:23	26° B 33'55	
asc. node	1669 Jun 03 09:21	6° Π 26'43		1670 May 22 20:11	0° Π	
			max. Earth dist.	1670 May 23 16:56	1° Π 53'45	1.32213 AU
superior conj	1669 Jun 08 19:44	18° Π 17'46	0°54'38			
minimum elong	1669 Jun 08 17:38	18° Π 06'13	0°54'14	superior conj	1670 May 24 07:24	3° Π 13'17
max. Earth dist.	1669 Jun 09 04:36	19° Π 06'28	1.32326 AU	minimum elong	1670 May 24 06:02	3° Π 05'46
	1669 Jun 14 04:57	0° C		evening rise	1670 May 31 04:08	18° Π 08'29
evening rise	1669 Jun 15 18:33	3° C 18'23			1670 Jun 06 00:43	0° C
	1669 Jun 30 03:41	0° Ω			1670 Jun 25 19:12	0° Ω
desc. node	1669 Jul 11 21:38	16° Ω 17'39		evening max el	1670 Jun 28 06:23	2° Ω 30'38
evening max el	1669 Jul 16 08:31	20° Ω 59'26	26°54'56	desc. node	1670 Jun 28 18:39	2° Ω 59'27
retrograde	1669 Jul 30 07:02	28° Ω 13'38		retrograde	1670 Jul 12 06:45	9° Ω 40'36
evening set	1669 Aug 06 05:36	26° Ω 06'49		evening set	1670 Jul 18 10:24	8° Ω 09'54
min. Earth dist.	1669 Aug 09 22:41	23° Ω 27'19	0.60789 AU	min. Earth dist.	1670 Jul 22 18:51	5° Ω 31'53
inferior conj	1669 Aug 13 04:05	20° Ω 43'43	-4°31'31	inferior conj	1670 Jul 26 01:26	3° Ω 07'52
minimum elong	1669 Aug 13 08:35	20° Ω 34'10	4°30'46	minimum elong	1670 Jul 26 02:50	3° Ω 05'17
morning rise	1669 Aug 20 13:23	15° Ω 56'20			1670 Jul 30 18:45	30° R C
direct	1669 Aug 22 23:35	15° Ω 33'12		morning rise	1670 Aug 02 21:30	28° C 43'11
morning max el	1669 Aug 30 05:06	19° Ω 07'22	18°03'50	direct	1670 Aug 05 09:28	28° C 22'40
asc. node	1669 Aug 30 08:34	19° Ω 15'50			1670 Aug 10 15:41	0° Ω
	1669 Sep 07 04:10	0° P		morning max el	1670 Aug 13 12:14	2° Ω 14'50
morning set	1669 Sep 15 01:23	14° P 10'42		asc. node	1670 Aug 17 05:36	6° Ω 30'57
	1669 Sep 23 16:00	0° A		morning set	1670 Aug 29 18:01	28° Ω 08'53
					1670 Aug 30 16:57	0° P
superior conj	1669 Sep 24 23:20	2° A 19'51	1°20'19			
minimum elong	1669 Sep 25 03:38	2° A 38'55	1°19'52	superior conj	1670 Sep 07 13:25	15° P 03'41
max. Earth dist.	1669 Oct 02 14:08	15° A 27'46	1.41796 AU	minimum elong	1670 Sep 07 16:03	15° P 15'57
desc. node	1669 Oct 07 20:57	24° A 07'22		max. Earth dist.	1670 Sep 14 19:53	28° P 14'06
evening rise	1669 Oct 08 05:07	24° A 40'04			1670 Sep 15 20:12	0° A
	1669 Oct 11 13:55	0° M		evening rise	1670 Sep 18 23:42	5° A 22'12
	1669 Nov 01 04:19	0° J		desc. node	1670 Sep 24 17:58	14° A 48'03
evening max el	1669 Nov 10 10:42	11° J 03'15	22°34'42		1670 Oct 04 17:18	0° M
retrograde	1669 Nov 20 05:45	16° J 52'25		evening max el	1670 Oct 24 00:30	24° M 38'47
evening set	1669 Nov 24 20:58	14° J 59'43			1670 Oct 30 21:55	0° J
asc. node	1669 Nov 26 07:49	13° J 37'18		retrograde	1670 Nov 03 21:56	1° J 03'16
inferior conj	1669 Nov 30 05:30	8° J 38'57	1°18'30		1670 Nov 07 13:43	30° R M
minimum elong	1669 Nov 30 03:48	8° J 44'52	1°17'50	evening set	1670 Nov 09 02:43	28° M 53'17
min. Earth dist.	1669 Nov 30 01:54	8° J 51'26	0.67804 AU	asc. node	1670 Nov 13 04:50	24° M 16'51
morning rise	1669 Dec 05 10:29	2° J 28'24		min. Earth dist.	1670 Nov 13 22:21	23° M 18'02
direct	1669 Dec 09 23:53	0° J 36'13		inferior conj	1670 Nov 14 12:31	22° M 29'57
morning max el	1669 Dec 19 05:05	6° J 01'43	22°01'50	minimum elong	1670 Nov 14 11:53	22° M 32'09
desc. node	1670 Jan 03 20:14	26° J 04'07		morning rise	1670 Nov 19 21:01	16° M 24'08
	1670 Jan 06 13:08	0° Z		direct	1670 Nov 23 20:37	14° M 54'19
morning set	1670 Jan 21 01:09	22° Z 18'22		morning max el	1670 Dec 01 23:46	19° M 36'19
	1670 Jan 25 18:06	0° \approx			1670 Dec 10 11:57	0° J
max. Earth dist.	1670 Jan 26 20:19	1° \approx 49'18	1.41196 AU	desc. node	1670 Dec 21 17:16	16° J 13'35
					1670 Dec 30 17:50	0° Z
superior conj	1670 Feb 03 14:29	15° \approx 10'32	-2°02'59	morning set	1670 Dec 31 03:58	0° Z 39'24
minimum elong	1670 Feb 03 16:16	15° \approx 18'25	2°02'57	max. Earth dist.	1671 Jan 09 01:49	14° Z 47'27
	1670 Feb 11 18:21	0° X				1.43057 AU
evening rise	1670 Feb 14 01:46	4° X 17'15		superior conj	1671 Jan 15 17:46	25° Z 46'38
asc. node	1670 Feb 22 07:07	19° X 07'20		minimum elong	1671 Jan 15 14:55	25° Z 34'42
	1670 Mar 02 02:12	0° Υ			1671 Jan 18 05:43	0° \approx
evening max el	1670 Mar 02 09:07	0° Υ 17'14	18°14'39	evening rise	1671 Jan 27 18:17	16° \approx 35'39
retrograde	1670 Mar 09 09:28	3° Υ 47'47			1671 Feb 04 10:07	0° X
evening set	1670 Mar 11 22:33	3° Υ 20'57		asc. node	1671 Feb 09 04:10	7° X 33'04
	1670 Mar 17 07:37	30° R X		evening max el	1671 Feb 13 20:42	13° X 23'24
inferior conj	1670 Mar 18 22:25	28° X 36'44	3°15'25	retrograde	1671 Feb 20 09:46	16° X 47'12
minimum elong	1670 Mar 19 01:33	28° X 29'51	3°14'53	evening set	1671 Feb 23 03:59	16° X 10'30
min. Earth dist.	1670 Mar 22 07:52	25° X 39'18	0.59740 AU	inferior conj	1671 Mar 01 13:59	11° X 05'18
morning rise	1670 Mar 26 02:15	22° X 56'11		minimum elong	1671 Mar 01 15:06	11° X 02'28





























































































































min. Earth dist.	1671 Mar 04 13:37	8° ✕ 05'47	0.61863 AU		1672 Feb 05 09:10	30° ℞	
morning rise	1671 Mar 08 00:51	5° ✕ 09'05		evening set	1672 Feb 06 20:01	29° ≈ 25'06	
direct	1671 Mar 14 22:26	2° ✕ 41'26		inferior conj	1672 Feb 12 19:49	24° ≈ 00'33	3°43'30
desc. node	1671 Mar 19 16:28	3° ✕ 44'04		minimum elong	1672 Feb 12 19:05	24° ≈ 02'37	3°43'28
morning max el	1671 Mar 29 01:03	10° ✕ 35'35	27°48'50	min. Earth dist.	1672 Feb 15 04:56	21° ≈ 19'49	0.63779 AU
	1671 Apr 13 05:06	0° Υ		morning rise	1672 Feb 18 17:26	17° ≈ 55'15	
	1671 Apr 30 04:36	0° ♄		direct	1672 Feb 25 15:27	15° ≈ 08'14	
morning set	1671 May 01 07:39	2° ♄ 16'58		desc. node	1672 Mar 05 13:31	18° ≈ 47'26	
max. Earth dist.	1671 May 07 03:01	14° ♄ 31'16	1.32485 AU	morning max el	1672 Mar 10 09:22	23° ≈ 02'17	27°37'05
asc. node	1671 May 08 03:27	16° ♄ 43'44			1672 Mar 16 14:03	0° ✕	
					1672 Apr 05 11:03	0° Υ	
superior conj	1671 May 08 17:36	18° ♄ 00'47	0°06'15	morning set	1672 Apr 14 04:21	16° Υ 20'07	
minimum elong	1671 May 08 17:19	17° ♄ 59'11	0°06'11	max. Earth dist.	1672 Apr 19 06:42	26° Υ 45'28	1.33163 AU
behind sun begin	1671 May 08 12:33	17° ♄ 33'18			1672 Apr 20 19:33	0° ♄	
behind sun end	1671 May 08 22:04	18° ♄ 25'06					
	1671 May 14 05:46	0° ♄		superior conj	1672 Apr 22 00:32	2° ♄ 34'32	-0°20'56
evening rise	1671 May 15 15:43	3° ♄ 01'23		minimum elong	1672 Apr 22 01:34	2° ♄ 40'03	0°20'43
	1671 May 30 05:53	0° ♄		asc. node	1672 Apr 24 00:30	6° ♄ 52'10	
evening max el	1671 Jun 09 21:49	13° ♄ 19'41	24°28'50	evening rise	1672 Apr 29 03:26	17° ♄ 50'40	
desc. node	1671 Jun 15 15:41	17° ♄ 50'44			1672 May 05 03:58	0° ♄	
retrograde	1671 Jun 23 19:17	20° ♄ 21'01		evening max el	1672 May 21 12:01	23° ♄ 49'58	22°53'07
evening set	1671 Jun 28 15:40	19° ♄ 28'17			1672 May 31 08:00	0° ♄	
min. Earth dist.	1671 Jul 04 08:50	16° ♄ 34'15	0.56838 AU	desc. node	1672 Jun 01 12:43	0° ♄ 15'52	
inferior conj	1671 Jul 07 02:51	14° ♄ 49'01	-4°45'49	retrograde	1672 Jun 03 19:45	0° ♄ 27'51	
minimum elong	1671 Jul 06 23:05	14° ♄ 55'02	4°45'27	evening set	1672 Jun 07 04:35	0° ♄ 02'56	
morning rise	1671 Jul 15 09:14	10° ♄ 45'11			1672 Jun 07 09:19	30° ℞ ♄	
direct	1671 Jul 18 00:40	10° ♄ 26'07		min. Earth dist.	1672 Jun 14 20:47	26° ♄ 39'10	0.55467 AU
morning max el	1671 Jul 27 10:24	14° ♄ 48'32	19°29'22	inferior conj	1672 Jun 16 09:12	25° ♄ 46'40	-3°51'41
asc. node	1671 Aug 04 02:40	24° ♄ 38'14		minimum elong	1672 Jun 16 01:34	25° ♄ 57'41	3°49'52
	1671 Aug 07 06:24	0° ♄		morning rise	1672 Jun 25 01:00	21° ♄ 54'11	
morning set	1671 Aug 13 18:58	12° ♄ 31'38		direct	1672 Jun 27 21:13	21° ♄ 35'15	
				morning max el	1672 Jul 08 21:39	26° ♄ 41'32	20°43'34
superior conj	1671 Aug 21 19:54	28° ♄ 36'40	1°45'27		1672 Jul 12 01:06	0° ♄	
minimum elong	1671 Aug 21 20:35	28° ♄ 40'03	1°45'26	asc. node	1672 Jul 20 23:43	13° ♄ 25'42	
	1671 Aug 22 12:56	0° ♄		morning set	1672 Jul 28 01:32	27° ♄ 11'46	
max. Earth dist.	1671 Aug 27 23:47	10° ♄ 22'06	1.37769 AU		1672 Jul 29 10:09	0° ♄	
evening rise	1671 Aug 31 18:09	17° ♄ 11'03					
	1671 Sep 08 07:12	0° ♄		superior conj	1672 Aug 04 14:05	12° ♄ 45'21	1°44'32
desc. node	1671 Sep 11 15:00	5° ♄ 18'53		minimum elong	1672 Aug 04 13:12	12° ♄ 40'48	1°44'31
	1671 Sep 29 02:47	0° ♄		max. Earth dist.	1672 Aug 09 07:18	22° ♄ 12'06	1.35919 AU
evening max el	1671 Oct 06 12:29	8° ♄ 17'05	25°11'14	evening rise	1672 Aug 13 09:05	29° ♄ 58'53	
retrograde	1671 Oct 18 09:57	15° ♄ 09'46			1672 Aug 13 09:19	0° ♄	
evening set	1671 Oct 24 05:06	12° ♄ 43'41		desc. node	1672 Aug 28 12:02	25° ♄ 34'32	
min. Earth dist.	1671 Oct 28 16:34	7° ♄ 43'03	0.67222 AU		1672 Aug 31 10:55	0° ♄	
inferior conj	1671 Oct 29 17:28	6° ♄ 21'50	-0°27'57	evening max el	1672 Sep 18 00:21	21° ♄ 55'38	26°16'50
minimum elong	1671 Oct 29 18:10	6° ♄ 19'32	0°27'39	retrograde	1672 Sep 30 17:12	29° ♄ 06'12	
asc. node	1671 Oct 31 01:53	4° ♄ 37'41		evening set	1672 Oct 07 02:12	26° ♄ 27'46	
morning rise	1671 Nov 04 07:25	0° ♄ 23'11		min. Earth dist.	1672 Oct 11 06:11	22° ♄ 03'11	0.66421 AU
	1671 Nov 04 22:38	30° ℞ ♄		inferior conj	1672 Oct 12 18:27	20° ♄ 11'42	-1°25'27
direct	1671 Nov 07 18:53	29° ♄ 13'24		minimum elong	1672 Oct 12 20:42	20° ♄ 04'47	1°24'32
	1671 Nov 10 18:23	0° ♄		asc. node	1672 Oct 16 22:56	15° ♄ 36'38	
morning max el	1671 Nov 15 02:21	3° ♄ 21'51	19°36'41	morning rise	1672 Oct 18 15:40	14° ♄ 22'55	
greatest brilliancy	1671 Nov 28 10:57	21° ♄ 10'39	-0.7m	direct	1672 Oct 21 17:08	13° ♄ 29'35	
	1671 Dec 04 06:34	0° ♄		morning max el	1672 Oct 28 11:49	17° ♄ 14'56	18°45'36
desc. node	1671 Dec 08 14:18	6° ♄ 38'46			1672 Nov 07 02:46	0° ♄	
morning set	1671 Dec 10 01:10	8° ♄ 53'30		morning set	1672 Nov 18 16:48	18° ♄ 08'03	
max. Earth dist.	1671 Dec 22 14:29	28° ♄ 31'32	1.44397 AU	desc. node	1672 Nov 24 11:19	27° ♄ 14'51	
	1671 Dec 23 12:46	0° ♄			1672 Nov 26 05:17	0° ♄	
superior conj	1671 Dec 26 18:35	5° ♄ 10'56	-1°43'23	superior conj	1672 Dec 04 23:21	13° ♄ 45'00	-1°06'19
minimum elong	1671 Dec 26 10:45	4° ♄ 39'30	1°42'45	minimum elong	1672 Dec 04 15:24	13° ♄ 13'50	1°05'24
evening rise	1672 Jan 09 15:17	28° ♄ 01'17		max. Earth dist.	1672 Dec 04 07:36	12° ♄ 43'11	1.45067 AU
	1672 Jan 10 19:27	0° ≈			1672 Dec 15 06:04	0° ♄	
asc. node	1672 Jan 27 01:12	25° ≈ 15'13		evening rise	1672 Dec 20 13:16	8° ♄ 28'54	
evening max el	1672 Jan 28 09:15	26° ≈ 42'12	18°19'26		1673 Jan 03 02:48	0° ≈	
	1672 Feb 02 08:13	0° ✕		evening max el	1673 Jan 10 20:12	10° ≈ 07'50	18°49'27
retrograde	1672 Feb 03 20:46	0° ✕ 12'29		asc. node	1673 Jan 12 22:14	12° ≈ 00'58	

retrograde	1673 Jan 17 14:18	13°  55'32		evening max el	1673 Dec 25 03:33	23°  37'10	19°36'09
evening set	1673 Jan 20 19:22	12°  56'25		asc. node	1673 Dec 30 19:16	27°  36'10	
inferior conj	1673 Jan 26 12:03	7°  14'36	3°29'47	retrograde	1674 Jan 01 11:12	27°  51'26	
minimum elong	1673 Jan 26 10:05	7°  20'41	3°29'29	evening set	1674 Jan 04 23:32	26°  39'11	
min. Earth dist.	1673 Jan 28 05:45	5°  06'18	0.65358 AU	inferior conj	1674 Jan 10 11:34	20°  42'28	3°03'49
morning rise	1673 Feb 01 00:24	1°  04'22		minimum elong	1674 Jan 10 08:59	20°  50'55	3°03'13
	1673 Feb 02 09:10	30°  R 		min. Earth dist.	1674 Jan 11 14:43	19°  13'25	0.66541 AU
direct	1673 Feb 07 15:33	28°  S  12'26		morning rise	1674 Jan 15 18:12	14°  S  29'52	
	1673 Feb 13 11:34	0° 		direct	1674 Jan 21 21:37	11°  S  45'58	
desc. node	1673 Feb 20 10:33	5°  03'40		morning max el	1674 Feb 03 04:17	19°  S  03'58	25°43'31
morning max el	1673 Feb 20 19:10	5°  05'37	26°52'34	desc. node	1674 Feb 07 07:34	23°  S  35'08	
	1673 Mar 11 07:03	0° 			1674 Feb 12 11:26	0° 	
morning set	1673 Mar 28 14:42	29°  H  47'58			1674 Mar 04 08:33	0° 	
	1673 Mar 28 17:13	0° 		morning set	1674 Mar 11 10:27	12°  H  28'15	
max. Earth dist.	1673 Apr 02 00:04	8°  Y  25'08	1.34290 AU	max. Earth dist.	1674 Mar 15 05:36	19°  H  34'24	1.35880 AU
superior conj	1673 Apr 06 02:01	16°  Y  46'49	-0°48'45	superior conj	1674 Mar 20 19:32	0°  Y  30'52	-1°15'39
minimum elong	1673 Apr 06 04:28	16°  Y  59'33	0°48'16	minimum elong	1674 Mar 20 23:12	0°  Y  49'19	1°15'04
asc. node	1673 Apr 10 21:32	26°  Y  54'10			1674 Mar 20 13:22	0°  Y 	
	1673 Apr 12 08:51	0°  S 		evening rise	1674 Mar 28 19:26	16°  Y  50'04	
evening rise	1673 Apr 13 13:20	2°  S  28'46		asc. node	1674 Mar 28 18:35	16°  Y  45'45	
	1673 Apr 29 07:24	0°  II 			1674 Apr 04 13:41	0°  S 	
evening max el	1673 May 03 08:36	4°  II  32'24	21°21'35	evening max el	1674 Apr 15 16:15	15°  S  48'57	20°04'15
retrograde	1673 May 15 10:17	10°  II  26'03		retrograde	1674 Apr 26 00:46	20°  S  48'55	
evening set	1673 May 17 18:23	10°  II  13'32		evening set	1674 Apr 28 01:39	20°  S  38'10	
desc. node	1673 May 19 09:46	9°  II  50'38		desc. node	1674 May 06 06:47	17°  S  05'57	
inferior conj	1673 May 27 03:56	6°  II  13'48	-2°12'45	inferior conj	1674 May 07 00:52	16°  S  38'56	-0°13'08
minimum elong	1673 May 26 21:52	6°  II  22'19	2°10'41	minimum elong	1674 May 07 00:16	16°  S  39'51	0°12'55
min. Earth dist.	1673 May 27 09:07	6°  II  06'32	0.54919 AU	transit middle	1674 May 07 00:16	16°  S  39'51	0°12'55
morning rise	1673 Jun 05 01:49	2°  II  15'06		transit begin	1674 May 06 21:56	16°  S  43'21	
direct	1673 Jun 08 07:32	1°  II  52'17		transit end	1674 May 07 02:36	16°  S  36'20	
morning max el	1673 Jun 20 21:50	7°  II  50'45	22°15'28	min. Earth dist.	1674 May 08 22:31	15°  S  30'38	0.55340 AU
	1673 Jul 06 10:38	0°  S 		morning rise	1674 May 15 21:00	12°  S  15'51	
asc. node	1673 Jul 07 20:47	2°  S  42'46		direct	1674 May 19 21:06	11°  S  40'46	
morning set	1673 Jul 12 11:31	12°  S  02'29		morning max el	1674 Jun 02 14:06	18°  S  26'37	23°57'00
					1674 Jun 12 02:58	0°  II 	
superior conj	1673 Jul 19 16:16	27°  S  17'59	1°36'55	asc. node	1674 Jun 24 17:49	22°  II  21'39	
minimum elong	1673 Jul 19 14:21	27°  S  07'52	1°36'46	morning set	1674 Jun 26 23:10	26°  II  58'36	
	1673 Jul 20 23:06	0°  Omega 			1674 Jun 28 09:21	0°  S 	
max. Earth dist.	1673 Jul 22 23:16	4°  Omega  09'50	1.34407 AU	superior conj	1674 Jul 03 23:44	12°  S  06'01	1°23'53
evening rise	1673 Jul 27 15:42	13°  Omega  32'44		minimum elong	1674 Jul 03 21:21	11°  S  05'30	1°23'34
	1673 Aug 05 15:42	0°  M 		max. Earth dist.	1674 Jul 06 00:39	16°  S  02'47	1.33292 AU
desc. node	1673 Aug 15 09:04	15°  M  27'46		evening rise	1674 Jul 11 09:50	27°  S  04'32	
	1673 Aug 26 09:12	0°  Omega 			1674 Jul 12 13:44	0°  Omega 	
evening max el	1673 Aug 31 12:35	5°  Omega  27'32	27°03'56		1674 Jul 29 21:23	0°  M 	
retrograde	1673 Sep 13 19:01	12°  Omega  45'26		desc. node	1674 Aug 02 06:05	4°  M 	48'55
evening set	1673 Sep 20 15:44	10°  Omega  01'30		evening max el	1674 Aug 13 23:50	18°  M  41'01	27°25'18
min. Earth dist.	1673 Sep 24 12:56	6°  Omega  13'15	0.65268 AU	retrograde	1674 Aug 27 14:40	25°  M  58'51	
inferior conj	1673 Sep 26 13:23	3°  Omega  55'41	-2°23'29	evening set	1674 Sep 03 18:42	23°  M  19'16	
minimum elong	1673 Sep 26 17:11	3°  Omega  44'54	2°22'04	min. Earth dist.	1674 Sep 07 10:35	20°  M  04'56	0.63768 AU
	1673 Sep 30 08:38	30°  R  M 		inferior conj	1674 Sep 09 23:44	17°  M  27'51	-3°19'19
morning rise	1673 Oct 02 19:24	28°  M  19'43		minimum elong	1674 Sep 10 04:43	17°  M  15'04	3°17'46
asc. node	1673 Oct 03 19:59	27°  M  55'05		morning rise	1674 Sep 16 15:50	12°  M  08'11	
direct	1673 Oct 05 13:17	27°  M  38'59		direct	1674 Sep 19 04:44	11°  M  36'26	
	1673 Oct 10 19:35	0°  Omega 		asc. node	1674 Sep 20 17:01	11°  M  47'55	
morning max el	1673 Oct 12 01:57	1°  Omega  10'27	18°10'59	morning max el	1674 Sep 25 18:00	15°  M  02'08	17°53'41
morning set	1673 Oct 30 13:25	28°  Omega  49'45			1674 Oct 06 05:23	0°  Omega 	
	1673 Oct 31 06:30	0°  M 		morning set	1674 Oct 12 12:34	10°  Omega  48'18	
desc. node	1673 Nov 11 08:21	17°  M  58'08			1674 Oct 23 20:29	0°  M 	
superior conj	1673 Nov 14 02:44	22°  M  22'05	-0°18'26	superior conj	1674 Oct 25 00:39	1°  M  55'53	0°28'07
minimum elong	1673 Nov 14 00:22	22°  M  12'43	0°18'06	minimum elong	1674 Oct 25 03:36	2°  M  08'00	0°27'43
max. Earth dist.	1673 Nov 17 02:31	27°  M  05'33	1.45001 AU	desc. node	1674 Oct 29 05:22	8°  M  44'45	
	1673 Nov 18 22:54	0°  S 		max. Earth dist.	1674 Oct 30 20:18	11°  M  20'42	1.44218 AU
evening rise	1673 Nov						

	1674 Dec 02 06:45	0°♄		desc. node	1675 Oct 16 02:23	29°♄31'54	
evening max el	1674 Dec 08 05:43	7°♄07'06	20°37'20		1675 Oct 16 09:23	0°♄	
retrograde	1674 Dec 16 09:01	11°♄55'23		evening rise	1675 Oct 20 09:34	6°♄21'53	
asc. node	1674 Dec 17 16:18	11°♄45'51			1675 Nov 05 02:35	0°♄	
evening set	1674 Dec 20 06:22	10°♄28'21		evening max el	1675 Nov 21 02:09	20°♄37'34	21°49'41
inferior conj	1674 Dec 25 15:44	4°♄19'31	2°28'29	retrograde	1675 Nov 30 05:51	26°♄04'26	
minimum elong	1674 Dec 25 13:08	4°♄28'25	2°27'41	evening set	1675 Dec 04 14:05	24°♄21'13	
min. Earth dist.	1674 Dec 26 05:53	3°♄31'19	0.67322 AU	asc. node	1675 Dec 04 13:20	24°♄22'43	
	1674 Dec 28 23:46	30°♄♂		inferior conj	1675 Dec 09 22:29	18°♄03'33	1°45'49
morning rise	1674 Dec 30 19:44	28°♄06'24		minimum elong	1675 Dec 09 20:19	18°♄11'01	1°45'01
direct	1675 Jan 05 08:43	25°♄39'33		min. Earth dist.	1675 Dec 10 01:00	17°♄54'50	0.67729 AU
	1675 Jan 14 01:46	0°♄		morning rise	1675 Dec 15 02:26	11°♄51'35	
morning max el	1675 Jan 16 12:35	2°♄18'52	24°19'46	direct	1675 Dec 20 00:14	9°♄46'30	
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	1675 Feb 06 14:09	0°♄			1676 Jan 10 15:19	0°♄	
morning set	1675 Feb 21 09:54	24°♄04'51		desc. node	1676 Jan 12 01:37	1°♄58'40	
	1675 Feb 24 18:08	0°♄			1676 Jan 30 14:44	0°♄	
max. Earth dist.	1675 Feb 25 02:34	0°♄37'59	1.37847 AU	morning set	1676 Feb 02 06:54	4°♄22'24	
				max. Earth dist.	1676 Feb 06 22:11	12°♄10'56	1.39989 AU
superior conj	1675 Mar 04 01:41	13°♄37'04	-1°39'30				
minimum elong	1675 Mar 04 05:54	13°♄57'23	1°39'01	superior conj	1676 Feb 14 16:08	25°♄54'21	-1°57'12
	1675 Mar 12 09:43	0°♄		minimum elong	1676 Feb 14 19:27	26°♄09'32	1°57'01
evening rise	1675 Mar 12 19:18	0°♄47'21			1676 Feb 16 21:29	0°♄	
asc. node	1675 Mar 15 15:37	6°♄21'49		evening rise	1676 Feb 24 09:59	14°♄12'57	
evening max el	1675 Mar 29 11:10	27°♄44'35	19°05'49	asc. node	1676 Mar 01 12:39	25°♄36'34	
	1675 Apr 01 05:26	0°♄			1676 Mar 04 01:36	0°♄	
retrograde	1675 Apr 07 04:29	1°♄58'01		evening max el	1676 Mar 11 15:04	10°♄14'31	18°27'33
evening set	1675 Apr 09 08:26	1°♄43'30		retrograde	1676 Mar 19 03:10	13°♄56'21	
	1675 Apr 13 15:30	30°♄♂		evening set	1676 Mar 21 12:50	13°♄34'45	
inferior conj	1675 Apr 17 13:04	27°♄30'41	1°33'19	inferior conj	1676 Mar 28 22:23	9°♄02'27	2°47'50
minimum elong	1675 Apr 17 16:28	27°♄24'50	1°32'14	minimum elong	1676 Mar 29 02:17	8°♄54'34	2°46'56
min. Earth dist.	1675 Apr 20 13:45	25°♄26'29	0.56629 AU	min. Earth dist.	1676 Apr 01 08:50	6°♄17'39	0.58513 AU
desc. node	1675 Apr 23 03:47	23°♄51'28		morning rise	1676 Apr 05 12:55	3°♄34'39	
morning rise	1675 Apr 25 21:29	22°♄33'37		desc. node	1676 Apr 09 00:50	2°♄16'58	
direct	1675 Apr 30 22:27	21°♄34'10		direct	1676 Apr 11 13:45	2°♄00'10	
morning max el	1675 May 15 04:35	28°♄54'05	25°34'41	morning max el	1676 Apr 25 22:52	9°♄41'12	26°52'43
	1675 May 16 07:11	0°♄			1676 May 11 11:36	0°♄	
	1675 Jun 05 13:02	0°♄		morning set	1676 May 25 20:55	26°♄44'55	
morning set	1675 Jun 11 10:52	11°♄54'55			1676 May 27 09:49	0°♄	
asc. node	1675 Jun 11 14:52	12°♄16'03		asc. node	1676 May 28 11:55	2°♄19'59	
superior conj	1675 Jun 18 10:17	27°♄02'25	1°06'25	superior conj	1676 Jun 01 22:03	12°♄00'03	0°45'16
minimum elong	1675 Jun 18 07:57	26°♄49'37	1°06'00	minimum elong	1676 Jun 01 20:13	11°♄49'56	0°44'54
max. Earth dist.	1675 Jun 19 09:09	29°♄07'28	1.32568 AU	max. Earth dist.	1676 Jun 01 21:09	11°♄55'06	1.32229 AU
	1675 Jun 19 18:47	0°♄		evening rise	1676 Jun 08 19:34	26°♄57'11	
evening rise	1675 Jun 25 12:02	12°♄11'53			1676 Jun 10 06:40	0°♄	
	1675 Jul 04 17:43	0°♄			1676 Jun 27 07:50	0°♄	
desc. node	1675 Jul 20 03:06	23°♄24'45		desc. node	1676 Jul 06 00:08	10°♄55'29	
	1675 Jul 25 21:59	0°♄		evening max el	1676 Jul 08 09:21	13°♄20'02	26°32'37
evening max el	1675 Jul 27 07:40	1°♄22'39	27°15'32	retrograde	1676 Jul 22 08:49	20°♄33'02	
retrograde	1675 Aug 10 03:34	8°♄37'58		evening set	1676 Jul 29 01:11	18°♄40'11	
evening set	1675 Aug 17 07:25	6°♄15'07		min. Earth dist.	1676 Aug 01 22:42	16°♄03'53	0.59912 AU
min. Earth dist.	1675 Aug 20 21:44	3°♄27'05	0.61949 AU	inferior conj	1676 Aug 05 06:08	13°♄25'52	-4°44'27
inferior conj	1675 Aug 23 22:31	0°♄41'18	-4°08'38	minimum elong	1676 Aug 05 09:38	13°♄18'51	4°44'04
minimum elong	1675 Aug 24 03:41	0°♄29'28	4°07'28	morning rise	1676 Aug 12 20:07	8°♄48'27	
	1675 Aug 24 16:41	30°♄♂		direct	1676 Aug 15 06:48	8°♄26'38	
morning rise	1675 Aug 31 01:28	25°♄41'26		morning max el	1676 Aug 22 20:09	12°♄06'46	18°15'02
direct	1675 Sep 02 12:01	25°♄15'46		asc. node	1676 Aug 24 11:07	13°♄49'21	
asc. node	1675 Sep 07 14:04	27°♄10'52			1676 Sep 03 19:24	0°♄	
morning max el	1675 Sep 09 09:07	28°♄43'55	17°54'39	morning set	1676 Sep 07 18:19	7°♄24'31	
	1675 Sep 10 14:03	0°♄					
morning set	1675 Sep 25 08:07	23°♄45'31		superior conj	1676 Sep 17 03:53	24°♄58'46	1°29'11
	1675 Sep 28 18:59	0°♄		minimum elong	1676 Sep 17 07:34	25°♄15'29	1°28'51
					1676 Sep 19 22:58	0°♄	
superior conj	1675 Oct 06 01:44	12°♄50'25	1°04'46	max. Earth dist.	1676 Sep 24 18:11	8°♄20'43	1.40973 AU
minimum elong	1675 Oct 06 06:23	13°♄10'24	1°04'12	evening rise	1676 Sep 29 14:27	16°♄25'22	
max. Earth dist.	1675 Oct 13 10:11	25°♄11'16	1.42817 AU	desc. node	1676 Oct 01 23:25	20°♄15'51	

































































































































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	1676 Oct 29 22:01	0°♊		desc. node	1677 Sep 18 20:28	10°♎52'44	
evening max el	1676 Nov 02 17:41	4°♊09'55	23°08'39		1677 Oct 01 17:14	0°♍	
retrograde	1676 Nov 13 00:12	10°♊15'26		evening max el	1677 Oct 16 06:24	17°♍46'18	24°28'10
evening set	1676 Nov 17 21:02	8°♊15'12		retrograde	1677 Oct 27 14:51	24°♍24'28	
asc. node	1676 Nov 20 10:22	5°♊36'05		evening set	1677 Nov 02 01:33	22°♍07'34	
inferior conj	1676 Nov 23 05:55	1°♊52'34	0°57'18	min. Earth dist.	1677 Nov 06 17:38	16°♍46'33	0.67522 AU
minimum elong	1676 Nov 23 04:37	1°♊57'02	0°56'45	asc. node	1677 Nov 07 07:25	16°♍00'28	
min. Earth dist.	1676 Nov 22 21:44	2°♊20'43	0.67788 AU	inferior conj	1677 Nov 07 12:17	15°♍44'09	0°04'12
	1676 Nov 24 15:02	30°♋♍		minimum elong	1677 Nov 07 12:11	15°♍44'30	0°04'09
morning rise	1676 Nov 28 12:08	25°♋43'42		transit middle	1677 Nov 07 12:11	15°♍44'30	0°04'09
direct	1676 Dec 02 19:22	24°♋01'25		transit begin	1677 Nov 07 09:32	15°♋53'23	
morning max el	1676 Dec 11 13:04	29°♋07'55	21°26'57	transit end	1677 Nov 07 14:50	15°♋35'37	
	1676 Dec 12 09:14	0°♊		morning rise	1677 Nov 12 22:51	9°♋40'48	
desc. node	1676 Dec 28 22:40	21°♊56'01		direct	1677 Nov 16 17:00	8°♋19'52	
	1677 Jan 03 08:32	0°♊		morning max el	1677 Nov 24 11:01	12°♋46'42	20°12'54
morning set	1677 Jan 11 22:57	13°♊18'11			1677 Dec 07 15:42	0°♊	
max. Earth dist.	1677 Jan 18 22:40	24°♊34'54	1.42028 AU	desc. node	1677 Dec 15 19:42	12°♊12'30	
	1677 Jan 22 04:47	0°♋		morning set	1677 Dec 21 20:04	21°♊25'54	
					1677 Dec 27 07:55	0°♊	
superior conj	1677 Jan 26 09:42	7°♋10'28	-2°04'32	max. Earth dist.	1678 Jan 01 06:51	7°♊51'56	1.43697 AU
minimum elong	1677 Jan 26 09:47	7°♋10'51	2°04'32				
evening rise	1677 Feb 06 11:49	26°♋58'24		superior conj	1678 Jan 07 01:41	17°♊15'12	-1°56'31
	1677 Feb 08 03:42	0°♋		minimum elong	1678 Jan 06 20:29	16°♊53'52	1°56'14
asc. node	1677 Feb 16 09:42	14°♋22'56			1678 Jan 14 16:19	0°♋	
evening max el	1677 Feb 23 00:47	23°♋10'18	18°09'18	evening rise	1678 Jan 19 20:29	8°♋54'24	
retrograde	1677 Mar 01 19:14	26°♋36'28			1678 Feb 01 11:44	0°♋	
evening set	1677 Mar 04 10:26	26°♋05'44		asc. node	1678 Feb 03 06:45	2°♋31'15	
inferior conj	1677 Mar 11 03:57	21°♋12'42	3°29'20	evening max el	1678 Feb 06 13:09	6°♋22'30	18°10'23
minimum elong	1677 Mar 11 06:16	21°♋07'18	3°29'03	retrograde	1678 Feb 13 00:25	9°♋47'20	
min. Earth dist.	1677 Mar 14 10:15	18°♋11'07	0.60645 AU	evening set	1678 Feb 15 20:46	9°♋06'12	
morning rise	1677 Mar 18 00:09	15°♋24'13		inferior conj	1678 Feb 22 02:02	3°♋52'53	3°44'13
direct	1677 Mar 24 17:08	13°♋13'20		minimum elong	1678 Feb 22 02:19	3°♋52'08	3°44'13
desc. node	1677 Mar 26 21:52	13°♋26'39		min. Earth dist.	1678 Feb 24 19:57	0°♋58'57	0.62714 AU
morning max el	1677 Apr 07 23:16	21°♋05'32	27°38'55		1678 Feb 25 19:44	30°♋♋	
	1677 Apr 15 16:51	0°♋		morning rise	1678 Feb 28 06:47	27°♋52'19	
	1677 May 04 09:51	0°♋		direct	1678 Mar 07 05:49	25°♋14'19	
morning set	1677 May 10 03:33	11°♋22'34		desc. node	1678 Mar 13 18:54	27°♋13'22	
asc. node	1677 May 15 08:59	22°♋29'07			1678 Mar 17 17:53	0°♋	
max. Earth dist.	1677 May 16 08:54	24°♋39'27	1.32276 AU	morning max el	1678 Mar 21 05:03	3°♋09'36	27°48'09
					1678 Apr 10 03:41	0°♋	
superior conj	1677 May 17 09:20	26°♋53'13	0°21'11	morning set	1678 Apr 24 04:34	25°♋39'53	
minimum elong	1677 May 17 08:23	26°♋48'01	0°20'58		1678 Apr 26 07:26	0°♋	
	1677 May 18 19:23	0°♋		max. Earth dist.	1678 Apr 29 16:30	7°♋06'58	1.32718 AU
evening rise	1677 May 24 06:14	11°♋49'18					
	1677 Jun 02 12:10	0°♋		superior conj	1678 May 01 18:22	11°♋35'19	-0°05'09
evening max el	1677 Jun 20 04:02	24°♋31'16	25°20'06	minimum elong	1678 May 01 18:37	11°♋36'39	0°05'05
desc. node	1677 Jun 22 21:09	26°♋54'31		behind sun begin	1678 May 01 13:39	11°♋09'49	
	1677 Jun 27 15:02	0°♋		behind sun end	1678 May 01 23:34	12°♋03'30	
retrograde	1677 Jul 04 04:27	1°♋39'24		asc. node	1678 May 02 06:03	12°♋38'35	
evening set	1677 Jul 09 19:54	0°♋25'20		evening rise	1678 May 08 18:04	26°♋40'55	
	1677 Jul 10 18:06	30°♋♋			1678 May 10 08:01	0°♋	
min. Earth dist.	1677 Jul 14 15:59	27°♋42'12	0.57882 AU		1678 May 28 02:07	0°♋	
inferior conj	1677 Jul 17 19:12	25°♋32'19	-4°55'51	evening max el	1678 Jun 01 18:16	5°♋09'06	23°48'34
minimum elong	1677 Jul 17 18:33	25°♋33'26	4°55'51	desc. node	1678 Jun 09 18:10	10°♋47'42	
morning rise	1677 Jul 25 19:46	21°♋17'10		retrograde	1678 Jun 15 11:51	12°♋02'22	
direct	1677 Jul 28 08:49	20°♋57'33		evening set	1678 Jun 19 16:33	11°♋23'35	
morning max el	1677 Aug 05 23:52	25°♋01'11	18°56'02	min. Earth dist.	1678 Jun 26 04:55	8°♋18'16	0.56173 AU
	1677 Aug 10 07:08	0°♋		inferior conj	1678 Jun 28 12:06	6°♋54'28	-4°28'54
asc. node	1677 Aug 11 08:11	1°♋28'08		minimum elong	1678 Jun 28 06:15	7°♋03'25	4°27'57
morning set	1677 Aug 22 14:50	21°♋33'39		morning rise	1678 Jul 06 22:36	2°♋56'42	
	1677 Aug 26 21:36	0°♋		direct	1678 Jul 09 15:50	2°♋37'52	
				morning max el	1678 Jul 19 17:30	7°♋17'55	19°58'23
superior conj	1677 Aug 31 01:34	8°♋05'02	1°42'17	asc. node	1678 Jul 29 05:15	19°♋53'50	
minimum elong	1677 Aug 31 03:21	8°♋13'34	1°42'12		1678 Aug 03 17:23	0°♋	
max. Earth dist.	1677 Sep 06 21:59	20°♋46'31	1.38933 AU	morning set	1678 Aug 06 18:29	6°♋04'34	
evening rise	1677 Sep 10 19:24	27°♋36'12					

superior conj	1678 Aug 14 13:30	21° Ω 54'25	1°45'58	superior conj	1679 Jul 29 11:27	6° Ω 14'07	1°42'02
minimum elong	1678 Aug 14 13:28	21° Ω 54'13	1°45'58	minimum elong	1679 Jul 29 10:03	6° Ω 06'53	1°41'58
	1678 Aug 18 16:26	0° \mathbb{M}		max. Earth dist.	1679 Aug 02 13:57	14° Ω 36'29	1.35231 AU
max. Earth dist.	1678 Aug 20 02:49	2° \mathbb{M} 44'09	1.36953 AU	evening rise	1679 Aug 06 21:18	23° Ω 00'32	
evening rise	1678 Aug 23 23:10	9° \mathbb{M} 51'54			1679 Aug 10 15:50	0° \mathbb{M}	
	1678 Sep 04 21:32	0° $\underline{\Omega}$		desc. node	1679 Aug 23 14:31	21° \mathbb{M} 25'00	
desc. node	1678 Sep 05 17:30	1° $\underline{\Omega}$ 17'56			1679 Aug 29 13:50	0° $\underline{\Omega}$	
	1678 Sep 27 08:07	0° \mathbb{M}		evening max el	1679 Sep 11 06:35	15° $\underline{\Omega}$ 03'20	26°39'34
evening max el	1678 Sep 28 18:26	1° \mathbb{M} 26'19	25°41'01	retrograde	1679 Sep 24 05:34	22° $\underline{\Omega}$ 17'20	
retrograde	1678 Oct 11 00:49	8° \mathbb{M} 27'25		evening set	1679 Sep 30 20:04	19° $\underline{\Omega}$ 35'35	
evening set	1678 Oct 17 01:55	5° \mathbb{M} 55'47		min. Earth dist.	1679 Oct 04 21:07	15° $\underline{\Omega}$ 26'41	0.65981 AU
min. Earth dist.	1678 Oct 21 10:16	1° \mathbb{M} 10'09	0.66924 AU	inferior conj	1679 Oct 06 14:27	13° $\underline{\Omega}$ 23'38	-1°50'08
	1678 Oct 22 08:17	30° \mathbb{R} $\underline{\Omega}$		minimum elong	1679 Oct 06 17:23	13° $\underline{\Omega}$ 14'56	1°48'58
inferior conj	1678 Oct 22 15:47	29° $\underline{\Omega}$ 36'00	-0°52'07	asc. node	1679 Oct 12 01:29	8° $\underline{\Omega}$ 00'18	
minimum elong	1678 Oct 22 17:08	29° $\underline{\Omega}$ 31'42	0°51'33	morning rise	1679 Oct 12 15:15	7° $\underline{\Omega}$ 40'00	
asc. node	1678 Oct 25 04:26	26° $\underline{\Omega}$ 31'20		direct	1679 Oct 15 13:18	6° $\underline{\Omega}$ 52'22	
morning rise	1678 Oct 28 08:36	23° $\underline{\Omega}$ 40'57		morning max el	1679 Oct 22 04:25	10° $\underline{\Omega}$ 30'18	18°28'49
direct	1678 Oct 31 15:37	22° $\underline{\Omega}$ 38'26			1679 Nov 04 23:12	0° \mathbb{M}	
morning max el	1678 Nov 07 16:40	26° $\underline{\Omega}$ 35'43	19°12'57	morning set	1679 Nov 11 02:26	9° \mathbb{M} 50'52	
	1678 Nov 10 17:01	0° \mathbb{M}		desc. node	1679 Nov 19 13:47	23° \mathbb{M} 22'26	
morning set	1678 Nov 30 22:46	29° \mathbb{M} 59'30			1679 Nov 23 18:25	0° \mathbb{X}	
	1678 Nov 30 22:54	0° \mathbb{X}					
desc. node	1678 Dec 02 16:46	2° \mathbb{X} 43'00		superior conj	1679 Nov 26 17:47	4° \mathbb{X} 40'44	-0°46'36
max. Earth dist.	1678 Dec 14 22:02	21° \mathbb{X} 50'59	1.44777 AU	minimum elong	1679 Nov 26 11:49	4° \mathbb{X} 17'15	0°45'50
				max. Earth dist.	1679 Nov 27 16:48	6° \mathbb{X} 11'10	1.45137 AU
superior conj	1678 Dec 17 16:29	26° \mathbb{X} 13'48	-1°29'40	evening rise	1679 Dec 12 19:57	29° \mathbb{X} 59'07	
minimum elong	1678 Dec 17 07:44	25° \mathbb{X} 39'09	1°28'49		1679 Dec 12 20:11	0° \mathbb{Z}	
	1678 Dec 20 01:21	0° \mathbb{Z}		greatest brilliancy	1679 Dec 22 10:57	15° \mathbb{Z} 09'33	-0.8m
evening rise	1679 Jan 01 07:58	19° \mathbb{Z} 55'23			1680 Jan 01 16:07	0° \approx	
	1679 Jan 07 10:30	0° \approx		evening max el	1680 Jan 04 10:59	3° \approx 11'58	19°07'19
evening max el	1679 Jan 21 01:22	19° \approx 44'47	18°30'02	asc. node	1680 Jan 08 00:46	6° \approx 08'17	
asc. node	1679 Jan 21 03:46	19° \approx 50'51		retrograde	1680 Jan 11 09:56	7° \approx 09'55	
retrograde	1679 Jan 27 14:33	23° \approx 20'47		evening set	1680 Jan 14 17:58	6° \approx 05'14	
evening set	1679 Jan 30 16:15	22° \approx 28'23		inferior conj	1680 Jan 20 08:22	0° \approx 16'27	3°20'02
inferior conj	1679 Feb 05 12:41	16° \approx 56'11	3°39'22	minimum elong	1680 Jan 20 06:03	0° \approx 23'47	3°19'37
minimum elong	1679 Feb 05 11:21	17° \approx 00'06	3°39'14		1680 Jan 20 13:32	30° \mathbb{R} \mathbb{Z}	
min. Earth dist.	1679 Feb 07 15:09	14° \approx 28'15	0.64507 AU	min. Earth dist.	1680 Jan 21 19:35	28° \mathbb{Z} 24'43	0.65913 AU
morning rise	1679 Feb 11 05:55	10° \approx 48'40		morning rise	1680 Jan 25 17:53	24° \mathbb{Z} 04'59	
direct	1679 Feb 18 01:54	7° \approx 57'55		direct	1680 Feb 01 04:23	21° \mathbb{Z} 15'29	
desc. node	1679 Feb 28 15:57	13° \approx 04'14		morning max el	1680 Feb 13 23:57	28° \mathbb{Z} 49'19	26°25'42
morning max el	1679 Mar 03 14:07	15° \approx 47'54	27°21'41		1680 Feb 15 03:23	0° \approx	
	1679 Mar 15 06:56	0° \mathbb{X}		desc. node	1680 Feb 15 13:00	0° \approx 25'34	
	1679 Apr 02 21:19	0° \mathbb{Y}			1680 Mar 08 02:17	0° \mathbb{X}	
morning set	1679 Apr 07 21:15	9° \mathbb{Y} 28'22		morning set	1680 Mar 21 02:01	22° \mathbb{X} 37'40	
max. Earth dist.	1679 Apr 12 16:08	19° \mathbb{Y} 06'18	1.33589 AU		1680 Mar 24 22:04	0° \mathbb{Y}	
				max. Earth dist.	1680 Mar 25 04:50	0° \mathbb{Y} 33'16	1.34914 AU
superior conj	1679 Apr 15 23:14	26° \mathbb{Y} 00'09	-0°32'44				
minimum elong	1679 Apr 16 00:52	26° \mathbb{Y} 08'47	0°32'23	superior conj	1680 Mar 29 21:41	10° \mathbb{Y} 01'14	-1°00'22
	1679 Apr 17 20:20	0° \mathbb{X}		minimum elong	1680 Mar 30 00:42	10° \mathbb{Y} 16'43	0°59'50
asc. node	1679 Apr 19 03:05	2° \mathbb{X} 44'17		asc. node	1680 Apr 05 00:07	22° \mathbb{Y} 42'21	
evening rise	1679 Apr 23 05:13	11° \mathbb{X} 25'44		evening rise	1680 Apr 06 13:48	25° \mathbb{Y} 57'44	
	1679 May 02 19:50	0° \mathbb{I}			1680 Apr 08 13:11	0° \mathbb{X}	
evening max el	1679 May 14 10:20	15° \mathbb{I} 40'23	22°12'55	evening max el	1680 Apr 25 11:11	26° \mathbb{X} 35'05	20°46'31
retrograde	1679 May 27 06:48	22° \mathbb{I} 01'06			1680 Apr 29 19:10	0° \mathbb{I}	
desc. node	1679 May 27 15:11	22° \mathbb{I} 00'49		retrograde	1680 May 06 20:00	2° \mathbb{I} 06'39	
evening set	1679 May 30 03:19	21° \mathbb{I} 43'04		evening set	1680 May 08 23:12	1° \mathbb{I} 55'44	
min. Earth dist.	1679 Jun 07 16:29	18° \mathbb{I} 03'09	0.55121 AU	desc. node	1680 May 13 12:12	0° \mathbb{I} 28'21	
inferior conj	1679 Jun 08 12:02	17° \mathbb{I} 35'39	-3°14'18		1680 May 14 12:08	30° \mathbb{R} \mathbb{X}	
minimum elong	1679 Jun 08 04:19	17° \mathbb{I} 46'32	3°12'04	inferior conj	1680 May 18 05:52	27° \mathbb{X} 57'53	-1°22'25
morning rise	1679 Jun 17 07:05	13° \mathbb{I} 43'10		minimum elong	1680 May 18 01:58	28° \mathbb{X} 03'28	1°21'01
direct	1679 Jun 20 06:47	13° \mathbb{I} 23'07		min. Earth dist.	1680 May 19 05:00	27° \mathbb{X} 24'50	0.54974 AU
morning max el	1679 Jul 01 23:40	18° \mathbb{I} 50'48	21°20'54	morning rise	1680 May 27 04:15	23° \mathbb{X} 51'06	
	1679 Jul 10 21:39	0° \mathbb{E}		direct	1680 May 30 16:26	23° \mathbb{X} 24'37	
asc. node	1679 Jul 16 02:18	8° \mathbb{E} 54'48		morning max el	1680 Jun 12 20:00	29° \mathbb{X} 44'02	22°58'20
morning set	1679 Jul 22 02:45	20° \mathbb{E} 49'55			1680 Jun 13 02:45	0° \mathbb{I}	
	1679 Jul 26 11:52	0° Ω		asc. node	1680 Jul 01 23:22	28° \mathbb{I} 22'09	
					1680 Jul 02 18:54	0° \mathbb{E}	

morning set	1680 Jul 05 13:40	5°  43'59			1681 Jun 09 06:58	0° 	
				asc. node	1681 Jun 18 20:24	18°  07'53	
superior conj	1680 Jul 12 16:13	20°  54'36	1°32'00	morning set	1681 Jun 20 01:32	20°  40'20	
minimum elong	1680 Jul 12 14:02	20°  42'58	1°31'46		1681 Jun 24 09:36	0° 	
max. Earth dist.	1680 Jul 15 10:06	26°  42'57	1.33879 AU				
	1680 Jul 17 00:04	0° 		superior conj	1681 Jun 27 01:15	5°  46'46	1°16'59
evening rise	1680 Jul 20 09:18	6°  50'07		minimum elong	1681 Jun 26 22:50	5°  33'35	1°16'36
	1680 Aug 02 05:42	0° 		max. Earth dist.	1681 Jun 28 14:37	9°  09'17	1.32929 AU
desc. node	1680 Aug 09 11:31	11°  06'02		evening rise	1681 Jul 04 07:12	21°  08'34	
evening max el	1680 Aug 23 18:27	28°  28'15	27°16'23		1681 Jul 08 18:48	0° 	
	1680 Aug 25 10:31	0° 		desc. node	1681 Jul 27 08:33	0°  09'37	
retrograde	1680 Sep 06 04:49	5°  46'58			1681 Jul 27 05:40	0° 	
evening set	1680 Sep 13 05:31	3°  40'05		evening max el	1681 Aug 06 04:23	11°  28'54	27°25'09
	1680 Sep 16 12:44	30°  08'00		retrograde	1681 Aug 19 22:00	18°  04'44	
min. Earth dist.	1680 Sep 17 00:03	29°  03'11	0.64680 AU	evening set	1681 Aug 27 02:59	16°  02'27	
inferior conj	1680 Sep 19 06:03	27°  03'00	-2°47'39	min. Earth dist.	1681 Aug 30 17:23	13°  10'38	0.63024 AU
minimum elong	1680 Sep 19 10:25	26°  05'06	2°46'07	inferior conj	1681 Sep 02 11:52	10°  07'53	-3°41'25
morning rise	1680 Sep 25 16:16	21°  03'52		minimum elong	1681 Sep 02 17:06	10°  04'04	3°39'57
asc. node	1680 Sep 27 22:32	20°  05'11		morning rise	1681 Sep 09 08:33	5°  16'25	
direct	1680 Sep 28 07:42	20°  07'25		direct	1681 Sep 11 19:59	4°  07'45	
morning max el	1680 Oct 04 19:47	24°  25'14	18°01'26	asc. node	1681 Sep 14 19:35	5°  03'20	
	1680 Oct 09 08:59	0° 		morning max el	1681 Sep 18 11:51	8°  13'43	17°51'47
morning set	1680 Oct 22 10:56	21°  06'49			1681 Oct 02 19:22	0° 	
	1680 Oct 27 18:40	0° 		morning set	1681 Oct 04 19:35	3°  42'27	
superior conj	1680 Nov 05 03:08	13°  36'36	0°02'10	superior conj	1681 Oct 16 12:26	23°  44'32	0°45'07
minimum elong	1680 Nov 05 03:23	13°  37'37	0°02'08	minimum elong	1681 Oct 16 16:32	24°  01'43	0°44'34
behind sun begin	1680 Nov 04 16:56	12°  05'40			1681 Oct 20 07:11	0° 	
behind sun end	1680 Nov 05 13:50	14°  01'29		max. Earth dist.	1681 Oct 23 03:24	4°  36'54	1.43686 AU
desc. node	1680 Nov 05 10:48	14°  07'21		desc. node	1681 Oct 23 07:49	4°  35'41	
max. Earth dist.	1680 Nov 09 11:32	20°  03'12	1.44753 AU	evening rise	1681 Oct 31 19:51	18°  03'56	
	1680 Nov 15 12:18	0° 			1681 Nov 08 11:47	0° 	
evening rise	1680 Nov 21 11:48	9°  16'07			1681 Nov 30 11:31	0° 	
	1680 Dec 05 02:45	0° 		evening max el	1681 Nov 30 15:49	0°  11'05	21°07'02
greatest brilliancy	1680 Dec 05 12:45	0°  37'04	-0.6m	retrograde	1681 Dec 09 05:16	5°  15'49	
evening max el	1680 Dec 17 16:07	16°  40'52	20°00'33	asc. node	1681 Dec 11 18:50	4°  39'06	
asc. node	1680 Dec 24 21:48	21°  08'24		evening set	1681 Dec 13 06:55	3°  42'17	
retrograde	1680 Dec 25 07:37	21°  09'20			1681 Dec 16 18:54	30°  08'00	
evening set	1680 Dec 28 23:30	19°  05'01		inferior conj	1681 Dec 18 15:42	27°  12'19	2°11'13
inferior conj	1681 Jan 03 10:09	13°  48'32	2°49'50	minimum elong	1681 Dec 18 13:14	27°  12'49	2°10'23
minimum elong	1681 Jan 03 07:30	13°  57'25	2°49'08	min. Earth dist.	1681 Dec 19 00:49	26°  15'53	0.67537 AU
min. Earth dist.	1681 Jan 04 07:33	12°  36'55	0.66916 AU	morning rise	1681 Dec 23 19:20	21°  16'13	
morning rise	1681 Jan 08 15:18	7°  35'16		direct	1681 Dec 29 01:54	18°  15'03	
direct	1681 Jan 14 12:38	4°  57'53		morning max el	1682 Jan 08 17:19	25°  18'42	23°42'03
morning max el	1681 Jan 26 08:49	12°  01'36	25°09'04		1682 Jan 12 23:21	0° 	
desc. node	1681 Feb 01 10:01	18°  05'44		desc. node	1682 Jan 19 07:02	8°  01'26	
	1681 Feb 09 19:34	0° 			1682 Feb 03 08:07	0° 	
	1681 Feb 28 19:36	0° 		morning set	1682 Feb 13 02:48	15°  07'49	
morning set	1681 Mar 03 13:53	4°  52'55		max. Earth dist.	1682 Feb 17 00:58	22°  05'54	1.38751 AU
max. Earth dist.	1681 Mar 07 06:05	11°  36'04	1.36675 AU		1682 Feb 21 01:37	0° 	
superior conj	1681 Mar 13 10:47	23°  39'54	-1°26'18	superior conj	1682 Feb 24 10:51	6°  16'53	-1°47'59
minimum elong	1681 Mar 13 14:49	23°  49'48	1°25'45	minimum elong	1682 Feb 24 14:56	6°  36'04	1°47'38
	1681 Mar 16 17:00	0° 		evening rise	1682 Mar 05 13:56	23°  39'03	
evening rise	1681 Mar 21 17:34	10°  09'26			1682 Mar 08 17:46	0° 	
asc. node	1681 Mar 22 21:08	12°  09'40		asc. node	1682 Mar 09 18:11	1°  05'20	
	1681 Apr 01 13:05	0° 		evening max el	1682 Mar 21 22:59	20°  09'38	18°47'06
evening max el	1681 Apr 07 23:46	8°  08'02	19°36'58	retrograde	1682 Mar 30 02:22	24°  09'10	
retrograde	1681 Apr 17 15:05	12°  04'00		evening set	1682 Apr 01 08:43	23°  05'59	
evening set	1681 Apr 19 16:17	12°  03'19		inferior conj	1682 Apr 09 05:02	19°  03'36	2°09'10
inferior conj	1681 Apr 28 08:06	8°  31'38	0°35'13	minimum elong	1682 Apr 09 09:02	19°  02'14	2°08'01
minimum elong	1681 Apr 28 09:36	8°  29'15	0°34'41	min. Earth dist.	1682 Apr 12 12:08	17°  05'22	0.57383 AU
desc. node	1681 Apr 30 09:14	7°  13'51		morning rise	1682 Apr 17 06:14	14°  02'28	
min. Earth dist.	1681 Apr 30 19:20	6°  58'10	0.55788 AU	desc. node	1682 Apr 17 06:15	14°  02'24	
morning rise	1681 May 07 00:16	3°  53'59		direct	1682 Apr 22 18:13	13°  01'43	
direct	1681 May 11 10:19	3° 10'11		morning max el	1682 May 07 02:19	20° 04'51	26°11'01
morning max el	1681 May 25 10:54	10° 13'10	24°40'02		1682 May 15 01:51	0°	

	1682 Jun 01 20:05	0°♂		morning max el	1683 Apr 18 22:53	1°♂45'48	27°16'45
morning set	1682 Jun 04 12:42	5°♂33'54			1683 May 09 07:32	0°♂	
asc. node	1682 Jun 05 17:28	8°♂06'26		morning set	1683 May 19 21:32	20°♂19'19	
				asc. node	1683 May 23 14:32	28°♂13'04	
superior conj	1682 Jun 11 12:32	20°♂44'00	0°57'51		1683 May 24 10:12	0°♂	
minimum elong	1682 Jun 11 10:21	20°♂32'03	0°57'26	max. Earth dist.	1683 May 26 13:23	4°♂40'19	1.32205 AU
max. Earth dist.	1682 Jun 12 00:52	21°♂51'47	1.32377 AU				
	1682 Jun 15 18:34	0°♂		superior conj	1683 May 27 00:18	5°♂40'24	0°35'22
evening rise	1682 Jun 18 11:59	5°♂46'29		minimum elong	1683 May 26 22:48	5°♂32'08	0°35'03
	1682 Jul 01 09:25	0°♂		evening rise	1683 Jun 02 21:08	20°♂35'52	
desc. node	1682 Jul 14 05:35	18°♂20'06			1683 Jun 07 11:33	0°♂	
evening max el	1682 Jul 19 10:01	23°♂52'48	27°01'23		1683 Jun 26 06:28	0°♂	
	1682 Jul 28 03:39	0°♂		desc. node	1683 Jul 01 02:36	5°♂15'49	
retrograde	1682 Aug 02 07:56	1°♂07'04		evening max el	1683 Jul 01 08:58	5°♂31'06	26°05'00
	1682 Aug 07 07:53	30°♂♂		retrograde	1683 Jul 15 09:01	12°♂41'41	
evening set	1682 Aug 09 08:12	28°♂55'51		evening set	1683 Jul 21 16:31	11°♂05'00	
min. Earth dist.	1682 Aug 13 00:17	26°♂14'34	0.61090 AU	min. Earth dist.	1683 Jul 25 21:35	8°♂28'06	0.59030 AU
inferior conj	1682 Aug 16 04:38	23°♂29'57	-4°26'06	inferior conj	1683 Jul 29 04:47	5°♂59'54	-4°53'06
minimum elong	1682 Aug 16 09:22	23°♂19'40	4°25'15	minimum elong	1683 Jul 29 06:49	5°♂56'03	4°53'00
morning rise	1682 Aug 23 12:16	18°♂39'08		morning rise	1683 Aug 05 23:18	1°♂31'55	
direct	1682 Aug 25 22:29	18°♂15'23		direct	1683 Aug 08 10:55	1°♂11'04	
asc. node	1682 Sep 01 16:40	21°♂26'41		morning max el	1683 Aug 16 09:49	4°♂59'35	18°29'56
morning max el	1682 Sep 02 01:34	21°♂47'49	18°00'52	asc. node	1683 Aug 19 13:43	8°♂32'42	
	1682 Sep 08 08:49	0°♂			1683 Sep 01 04:15	0°♂	
morning set	1682 Sep 17 22:01	16°♂49'05		morning set	1683 Sep 01 13:07	0°♂42'41	
	1682 Sep 25 02:45	0°♂					
superior conj	1682 Sep 28 00:43	5°♂11'35	1°16'36	superior conj	1683 Sep 10 11:54	17°♂46'45	1°36'01
minimum elong	1682 Sep 28 05:10	5°♂31'11	1°16'07	minimum elong	1683 Sep 10 14:49	18°♂00'17	1°35'48
max. Earth dist.	1682 Oct 05 14:46	18°♂10'50	1.42072 AU		1683 Sep 17 06:34	0°♂	
desc. node	1682 Oct 10 04:52	25°♂40'51		max. Earth dist.	1683 Sep 17 21:13	1°♂03'52	1.40115 AU
evening rise	1682 Oct 11 13:19	27°♂50'45		evening rise	1683 Sep 22 04:16	8°♂22'29	
	1682 Oct 12 21:56	0°♂		desc. node	1683 Sep 27 01:55	16°♂22'33	
	1682 Nov 02 05:13	0°♂			1683 Oct 05 22:41	0°♂	
evening max el	1682 Nov 13 10:09	13°♂42'44	22°22'52	evening max el	1683 Oct 27 00:20	27°♂17'15	23°42'46
retrograde	1682 Nov 23 01:06	19°♂25'56			1683 Oct 29 23:25	0°♂	
evening set	1682 Nov 27 14:29	17°♂35'42		retrograde	1683 Nov 06 17:53	3°♂36'56	
asc. node	1682 Nov 28 15:53	16°♂37'56		evening set	1683 Nov 11 20:37	1°♂29'22	
inferior conj	1682 Dec 02 22:57	11°♂15'43	1°25'53		1683 Nov 13 09:33	30°♂♂	
minimum elong	1682 Dec 02 21:07	11°♂22'05	1°25'10	asc. node	1683 Nov 15 12:55	27°♂24'53	
min. Earth dist.	1682 Dec 02 20:55	11°♂22'46	0.67800 AU	min. Earth dist.	1683 Nov 16 17:30	25°♂49'11	0.67723 AU
morning rise	1682 Dec 08 03:36	5°♂04'48		inferior conj	1683 Nov 17 06:09	25°♂06'04	0°35'17
direct	1682 Dec 12 19:12	3°♂09'12		minimum elong	1683 Nov 17 05:19	25°♂08'54	0°34'55
morning max el	1682 Dec 22 04:36	8°♂41'26	22°14'25	morning rise	1683 Nov 22 14:00	18°♂59'30	
desc. node	1683 Jan 06 04:04	27°♂44'20		direct	1683 Nov 26 15:32	17°♂26'33	
	1683 Jan 07 17:49	0°♂		morning max el	1683 Dec 04 22:14	22°♂14'27	20°53'55
morning set	1683 Jan 24 11:12	25°♂38'40			1683 Dec 11 11:51	0°♂	
	1683 Jan 27 03:08	0°♂		desc. node	1683 Dec 24 01:07	17°♂50'44	
max. Earth dist.	1683 Jan 29 22:02	4°♂38'49	1.40895 AU		1684 Jan 01 01:19	0°♂	
				morning set	1684 Jan 03 16:59	4°♂07'05	
superior conj	1683 Feb 06 17:06	18°♂09'43	-2°01'53	max. Earth dist.	1684 Jan 12 02:22	17°♂28'46	1.42808 AU
minimum elong	1683 Feb 06 19:22	18°♂19'51	2°01'47				
	1683 Feb 13 04:54	0°♂		superior conj	1684 Jan 19 00:12	28°♂56'15	-2°03'17
evening rise	1683 Feb 16 23:35	7°♂03'07		minimum elong	1684 Jan 18 22:11	28°♂47'42	2°03'14
asc. node	1683 Feb 24 15:13	20°♂58'40			1684 Jan 19 15:15	0°♂	
	1683 Mar 02 13:33	0°♂		evening rise	1684 Jan 30 18:40	19°♂28'47	
evening max el	1683 Mar 05 05:47	3°♂01'35	18°17'22		1684 Feb 05 17:08	0°♂	
retrograde	1683 Mar 12 08:44	6°♂34'32		asc. node	1684 Feb 11 12:15	9°♂29'58	
evening set	1683 Mar 14 21:01	6°♂09'04		evening max el	1684 Feb 16 16:57	16°♂05'02	18°07'21
inferior conj	1683 Mar 21 23:16	1°♂27'50	3°09'10	retrograde	1684 Feb 23 07:08	19°♂29'07	
minimum elong	1683 Mar 22 02:38	1°♂20'34	3°08'32	evening set	1684 Feb 26 00:32	18°♂54'02	
	1683 Mar 23 15:54	30°♂♂		inferior conj	1684 Mar 03 12:21	13°♂51'52	3°38'29
min. Earth dist.	1683 Mar 25 09:19	28°♂32'59	0.59419 AU	minimum elong	1684 Mar 03 13:48	13°♂48'19	3°38'22
morning rise	1683 Mar 29 05:51	25°♂50'21		min. Earth dist.	1684 Mar 06 13:53	10°♂51'06	0.61550 AU
desc. node	1683 Apr 04 03:16	24°♂00'33		morning rise	1684 Mar 10 01:32	7°♂57'20	
direct	1683 Apr 04 14:54	23°♂59'55		direct	1684 Mar 16 22:10	5°♂33'44	
	1683 Apr 17 01:35	0°♂		desc. node	1684 Mar 21 00:18	6°♂20'08	
				morning max el	1684 Mar 31 01:55	13°♂27'43	27°47'32

	1684 Apr 13 07:40	0°♿		desc. node	1685 Mar 07 21:20	21°♿04'38	
	1684 Apr 30 16:37	0°♿		morning max el	1685 Mar 13 09:43	25°♿49'13	27°41'00
morning set	1684 May 03 02:04	4°♿49'19			1685 Mar 17 06:36	0°♿	
max. Earth dist.	1684 May 09 00:02	17°♿20'09	1.32416 AU		1685 Apr 06 19:49	0°♿	
asc. node	1684 May 09 11:33	18°♿22'42		morning set	1685 Apr 16 23:56	18°♿56'22	
				max. Earth dist.	1685 Apr 22 04:48	29°♿37'46	1.33034 AU
superior conj	1684 May 10 10:49	20°♿29'23	0°10'14		1685 Apr 22 09:01	0°♿	
minimum elong	1684 May 10 10:20	20°♿26'48	0°10'08				
behind sun begin	1684 May 10 06:23	20°♿05'13		superior conj	1685 Apr 24 18:19	5°♿05'19	-0°16'45
behind sun end	1684 May 10 14:17	20°♿48'23		minimum elong	1685 Apr 24 19:08	5°♿09'43	0°16'34
	1684 May 14 19:20	0°♿		asc. node	1685 Apr 26 08:36	8°♿31'23	
evening rise	1684 May 17 08:31	5°♿28'36		evening rise	1685 May 01 20:17	20°♿18'22	
	1684 May 30 08:29	0°♿			1685 May 06 14:05	0°♿	
evening max el	1684 Jun 12 01:01	16°♿24'54	24°42'35	evening max el	1685 May 24 14:53	26°♿55'36	23°07'25
desc. node	1684 Jun 16 23:37	20°♿25'58			1685 May 28 05:48	0°♿	
retrograde	1684 Jun 25 23:32	23°♿28'38		desc. node	1685 Jun 03 20:36	3°♿14'40	
evening set	1684 Jul 01 01:10	22°♿30'30		retrograde	1685 Jun 07 01:51	3°♿38'17	
min. Earth dist.	1684 Jul 06 12:13	19°♿39'48	0.57095 AU	evening set	1685 Jun 10 15:29	3°♿10'21	
inferior conj	1684 Jul 09 09:14	17°♿47'33	-4°49'56		1685 Jun 17 18:33	30°♿	
minimum elong	1684 Jul 09 06:18	17°♿52'21	4°49'42	min. Earth dist.	1685 Jun 18 00:20	29°♿51'40	0.55626 AU
morning rise	1684 Jul 17 14:10	13°♿41'10		inferior conj	1685 Jun 19 18:04	28°♿50'47	-4°03'04
direct	1684 Jul 20 04:57	13°♿22'00		minimum elong	1685 Jun 19 10:44	29°♿01'31	4°01'27
morning max el	1684 Jul 29 09:32	17°♿39'00	19°20'02	morning rise	1685 Jun 28 08:33	24°♿57'22	
asc. node	1684 Aug 05 10:47	26°♿32'48		direct	1685 Jul 01 03:50	24°♿38'34	
	1684 Aug 07 13:29	0°♿		morning max el	1685 Jul 11 22:25	29°♿37'55	20°31'14
morning set	1684 Aug 15 12:59	15°♿01'52			1685 Jul 12 07:48	0°♿	
	1684 Aug 23 01:17	0°♿		asc. node	1685 Jul 23 07:50	15°♿14'36	
				morning set	1685 Jul 30 18:48	29°♿39'14	
superior conj	1684 Aug 23 16:15	1°♿13'07	1°44'53		1685 Jul 30 22:51	0°♿	
minimum elong	1684 Aug 23 17:13	1°♿17'50	1°44'52				
max. Earth dist.	1684 Aug 30 00:47	13°♿15'08	1.38066 AU	superior conj	1685 Aug 07 08:53	15°♿16'41	1°45'08
evening rise	1684 Sep 02 19:17	20°♿01'18		minimum elong	1685 Aug 07 08:12	15°♿13'12	1°45'07
	1684 Sep 08 15:55	0°♿		max. Earth dist.	1685 Aug 12 07:12	25°♿05'07	1.36176 AU
desc. node	1684 Sep 12 22:58	6°♿54'58			1685 Aug 14 20:56	0°♿	
	1684 Sep 29 00:57	0°♿		evening rise	1685 Aug 16 07:24	2°♿40'47	
evening max el	1684 Oct 08 12:22	10°♿54'39	25°00'21	desc. node	1685 Aug 30 19:59	27°♿12'59	
retrograde	1684 Oct 20 06:39	17°♿44'11			1685 Sep 01 16:00	0°♿	
evening set	1684 Oct 25 23:37	15°♿20'18		evening max el	1685 Sep 21 00:13	24°♿33'23	26°08'10
min. Earth dist.	1684 Oct 30 12:12	10°♿14'22	0.67307 AU		1685 Sep 27 22:45	0°♿	
inferior conj	1684 Oct 31 11:30	8°♿57'49	-0°19'23	retrograde	1685 Oct 03 14:40	1°♿42'04	
minimum elong	1684 Oct 31 11:59	8°♿56'13	0°19'11		1685 Oct 08 16:58	30°♿	
asc. node	1684 Nov 01 09:58	7°♿44'36		evening set	1685 Oct 09 21:36	29°♿05'16	
morning rise	1684 Nov 06 00:31	2°♿57'55		min. Earth dist.	1685 Oct 14 02:42	24°♿35'06	0.66558 AU
direct	1684 Nov 09 13:37	1°♿45'25		inferior conj	1685 Oct 15 13:10	22°♿48'00	-1°16'41
morning max el	1684 Nov 16 23:40	5°♿58'24	19°45'37	minimum elong	1685 Oct 15 15:11	22°♿41'45	1°15'50
greatest brilliancy	1684 Nov 30 08:43	23°♿43'08	-0.7m	asc. node	1685 Oct 19 07:01	18°♿34'06	
	1684 Dec 04 12:56	0°♿		morning rise	1685 Oct 21 09:11	16°♿57'26	
desc. node	1684 Dec 09 22:11	8°♿13'57		direct	1685 Oct 24 11:59	16°♿01'51	
morning set	1684 Dec 12 13:21	12°♿17'25		morning max el	1685 Oct 31 08:09	19°♿50'10	18°52'10
	1684 Dec 23 21:10	0°♿			1685 Nov 08 06:19	0°♿	
max. Earth dist.	1684 Dec 24 13:52	1°♿06'18	1.44233 AU	morning set	1685 Nov 22 01:05	21°♿19'38	
				desc. node	1685 Nov 26 19:14	28°♿48'32	
superior conj	1684 Dec 29 04:54	8°♿31'00	-1°47'28		1685 Nov 27 13:25	0°♿	
minimum elong	1684 Dec 28 21:39	8°♿01'42	1°46'56	max. Earth dist.	1685 Dec 07 06:23	15°♿14'25	1.45011 AU
	1685 Jan 11 04:01	0°♿					
evening rise	1685 Jan 11 18:52	1°♿02'56		superior conj	1685 Dec 08 11:43	17°♿09'46	-1°12'55
asc. node	1685 Jan 28 09:16	27°♿19'35		minimum elong	1685 Dec 08 03:20	16°♿36'48	1°11'58
evening max el	1685 Jan 30 05:32	29°♿22'32	18°16'27		1685 Dec 16 14:19	0°♿	
	1685 Jan 30 21:00	0°♿		evening rise	1685 Dec 23 20:21	11°♿38'50	
retrograde	1685 Feb 05 16:46	2°♿51'08			1686 Jan 04 06:31	0°♿	
evening set	1685 Feb 08 15:12	2°♿05'27		evening max el	1686 Jan 13 16:54	12°♿47'35	18°43'53
	1685 Feb 11 12:31	30°♿		asc. node	1686 Jan 15 06:17	14°♿14'47	
inferior conj	1685 Feb 14 16:19	26°♿43'48	3°44'12	retrograde	1686 Jan 20 09:29	16°♿31'50	
minimum elong	1685 Feb 14 15:51	26°♿45'08	3°44'12	evening set	1686 Jan 23 13:38	15°♿34'31	
min. Earth dist.	1685 Feb 17 03:49	23°♿59'01	0.63514 AU	inferior conj	1686 Jan 29 07:13	9°♿55'15	3°32'40
morning rise	1685 Feb 20 15:39	20°♿39'29		minimum elong	1686 Jan 29 05:23	10°♿00'49	3°32'26
direct	1685 Feb 27 14:10	17°♿54'14		min. Earth dist.	1686 Jan 31 03:11	7°♿41'31	0.65151 AU

morning rise	1686 Feb 03 20:42	3°  45'39		morning rise	1687 Jan 18 13:07	17°  08'47	
direct	1686 Feb 10 13:21	0°  53'30		direct	1687 Jan 24 18:30	14°  23'06	
desc. node	1686 Feb 22 18:22	7°  37'39		morning max el	1687 Feb 06 04:35	21°  45'20	25°54'59
morning max el	1686 Feb 23 19:20	8°  38'54	27°00'56	desc. node	1687 Feb 09 15:26	25°  28'50	
	1686 Mar 12 11:40	0°  ✕			1687 Feb 13 09:34	0°  ≈	
	1686 Mar 30 04:39	0°  Y			1687 Mar 05 17:16	0°  ✕	
morning set	1686 Mar 31 12:04	2°  Y29'59		morning set	1687 Mar 14 10:18	15°  ✕18'09	
max. Earth dist.	1686 Apr 04 23:45	11°  Y22'06	1.34096 AU	max. Earth dist.	1687 Mar 18 07:08	22°  ✕35'30	1.35619 AU
					1687 Mar 22 01:49	0°  Y	
superior conj	1686 Apr 08 20:46	19°  Y21'14	-0°44'32	superior conj	1687 Mar 23 15:40	3°  Y10'01	-1°11'42
minimum elong	1686 Apr 08 23:00	19°  Y32'55	0°44'06	minimum elong	1687 Mar 23 19:11	3°  Y27'47	1°11'08
asc. node	1686 Apr 13 05:37	28°  Y34'27		asc. node	1687 Mar 31 02:39	18°  Y27'50	
	1686 Apr 13 21:47	0°  8		evening rise	1687 Mar 31 13:23	19°  Y22'47	
evening rise	1686 Apr 16 06:33	4°  858'26			1687 Apr 05 22:11	0°  8	
	1686 Apr 30 02:24	0°  II		evening max el	1687 Apr 18 16:02	18°  845'13	20°14'34
evening max el	1686 May 06 10:09	7°  II34'31	21°34'26	retrograde	1687 Apr 29 06:45	23°  853'10	
retrograde	1686 May 18 17:06	13°  II35'23		evening set	1687 May 01 07:54	23°  842'32	
evening set	1686 May 21 03:49	13°  II21'51		desc. node	1687 May 08 14:37	20°  846'21	
desc. node	1686 May 21 17:35	13°  II14'55		inferior conj	1687 May 10 09:23	19°  844'09	-0°31'07
inferior conj	1686 May 30 13:43	9°  II20'47	-2°29'50	minimum elong	1687 May 10 07:56	19°  846'17	0°30'35
minimum elong	1686 May 30 07:03	9°  II30'07	2°27'39	min. Earth dist.	1687 May 12 01:34	18°  844'56	0.55217 AU
min. Earth dist.	1686 May 30 12:30	9°  II22'29	0.54942 AU	morning rise	1687 May 19 06:26	15°  825'50	
morning rise	1686 Jun 08 11:03	5°  II24'14		direct	1687 May 23 03:16	14°  853'21	
direct	1686 Jun 11 15:01	5°  II02'19		morning max el	1687 Jun 05 17:08	21°  832'31	23°41'51
morning max el	1686 Jun 24 00:01	10°  II52'56	22°00'56		1687 Jun 13 00:55	0°  II	
	1686 Jul 07 19:22	0°  ☿		asc. node	1687 Jun 27 01:56	24°  II04'01	
asc. node	1686 Jul 10 04:53	4°  ☿27'52		morning set	1687 Jun 29 15:56	29°  II24'54	
morning set	1686 Jul 15 04:24	14°  ☿28'56			1687 Jun 29 22:36	0°  ☿	
superior conj	1686 Jul 22 10:04	29°  ☿46'26	1°38'27	superior conj	1687 Jul 06 16:54	14°  ☿32'49	1°26'10
minimum elong	1686 Jul 22 08:16	29°  ☿36'59	1°38'19	minimum elong	1687 Jul 06 14:34	14°  ☿20'10	1°25'53
	1686 Jul 22 12:39	0°  Ω		max. Earth dist.	1687 Jul 08 22:08	19°  ☿17'43	1.33431 AU
max. Earth dist.	1686 Jul 25 21:56	7°  Ω01'26	1.34609 AU	evening rise	1687 Jul 14 04:39	0°  Ω12'24	
evening rise	1686 Jul 30 12:00	16°  Ω08'53			1687 Jul 14 02:11	0°  Ω	
	1686 Aug 07 00:57	0°  ♍			1687 Jul 31 01:24	0°  ♍	
desc. node	1686 Aug 17 16:58	17°  ♍10'10		desc. node	1687 Aug 04 13:58	6°  ♍37'01	
	1686 Aug 27 03:36	0°  ♎		evening max el	1687 Aug 17 00:04	21°  ♍24'38	27°23'56
evening max el	1686 Sep 03 12:31	8°  ♎07'29	26°58'26	retrograde	1687 Aug 30 13:44	28°  ♍42'33	
retrograde	1686 Sep 16 17:12	15°  ♎24'27		evening set	1687 Sep 06 17:10	26°  ♍01'30	
evening set	1686 Sep 23 12:24	12°  ♎40'56		min. Earth dist.	1687 Sep 10 09:39	22°  ♍42'36	0.64017 AU
min. Earth dist.	1686 Sep 27 10:37	8°  ♎47'17	0.65463 AU	inferior conj	1687 Sep 12 20:59	20°  ♍07'50	-3°11'10
inferior conj	1686 Sep 29 09:10	6°  ♎33'25	-2°14'48	minimum elong	1687 Sep 13 01:49	19°  ♍55'11	3°09'36
minimum elong	1686 Sep 29 12:44	6°  ♎23'08	2°13'25	morning rise	1687 Sep 19 11:32	14°  ♍45'37	
morning rise	1686 Oct 05 13:47	0°  ♎55'15		direct	1687 Sep 22 01:03	14°  ♍12'42	
asc. node	1686 Oct 06 04:04	0°  ♎39'09		asc. node	1687 Sep 23 01:08	14°  ♍17'49	
direct	1686 Oct 08 08:40	0°  ♎12'48		morning max el	1687 Sep 28 13:43	17°  ♍38'34	17°55'07
morning max el	1686 Oct 14 21:44	3°  ♎45'40	18°15'03		1687 Oct 07 12:00	0°  ♎	
	1686 Nov 01 14:49	0°  ♏		morning set	1687 Oct 15 12:57	13°  ♎36'57	
morning set	1686 Nov 02 17:22	1°  ♏48'38			1687 Oct 25 05:47	0°  ♏	
desc. node	1686 Nov 13 16:16	19°  ♏30'57		superior conj	1687 Oct 28 08:07	5°  ♏05'03	0°21'36
superior conj	1686 Nov 17 13:49	25°  ♏42'07	-0°25'52	minimum elong	1687 Oct 28 10:29	5°  ♏14'42	0°21'15
minimum elong	1686 Nov 17 10:29	25°  ♏28'53	0°25'25	desc. node	1687 Oct 31 13:17	10°  ♏17'15	
max. Earth dist.	1686 Nov 20 01:23	29°  ♏36'53	1.45060 AU	max. Earth dist.	1687 Nov 02 19:44	13°  ♏54'57	1.44381 AU
	1686 Nov 20 07:16	0°  ♐		evening rise	1687 Nov 13 09:24	0°  ♐26'31	
evening rise	1686 Dec 03 22:51	21°  ♐20'19			1687 Nov 13 02:31	0°  ♐	
	1686 Dec 09 12:17	0°  ♑			1687 Dec 03 06:36	0°  ♑	
greatest brilliancy	1686 Dec 15 17:40	9°  ♑35'56	-0.7m	evening max el	1687 Dec 11 03:52	9°  ♑46'03	20°27'26
evening max el	1686 Dec 28 00:55	26°  ♑16'26	19°28'13	retrograde	1687 Dec 19 03:55	14°  ♑28'59	
asc. node	1687 Jan 02 03:19	0°  ≈01'33		asc. node	1687 Dec 20 00:22	14°  ♑24'55	
	1687 Jan 02 01:42	0°  ≈		evening set	1687 Dec 22 23:49	13°  ♑04'11	
retrograde	1687 Jan 04 06:02	0°  ≈26'04		inferior conj	1687 Dec 28 09:28	6°  ♑56'49	2°34'23
	1687 Jan 06 08:46	30°  ♑35'56		minimum elong	1687 Dec 28 06:50	7°  ♑05'46	2°33'35
evening set	1687 Jan 07 17:15	29°  ♑15'44		min. Earth dist.	1687 Dec 29 01:24	6°  ♑02'41	0.67227 AU
inferior conj	1687 Jan 13 05:49	23°  ♑21'02	3°08'23	morning rise	1688 Jan 02 13:40	0°  ♑43'39	
minimum elong	1687 Jan 13 03:18	23°  ♑29'15	3°07'49		1688 Jan 03 10:40	30°  ♑35'56	
min. Earth dist.	1687 Jan 14 11:01	21°  ♑46'06	0.66393 AU				

direct	1688 Jan 08 04:50	28°♄14'01		min. Earth dist.	1688 Dec 11 20:08	20°♄25'35	0.67688 AU
	1688 Jan 13 12:46	0°♄		morning rise	1688 Dec 16 19:45	14°♄27'41	
morning max el	1688 Jan 19 13:05	4°♄59'55	24°32'49	direct	1688 Dec 21 19:46	12°♄19'13	
desc. node	1688 Jan 27 12:29	14°♄15'09		morning max el	1688 Dec 31 22:30	18°♄19'33	23°04'24
	1688 Feb 07 19:41	0°♄			1689 Jan 10 16:31	0°♄	
morning set	1688 Feb 24 13:14	27°♄05'40		desc. node	1689 Jan 13 09:32	3°♄40'44	
	1688 Feb 26 04:38	0°♄			1689 Jan 30 23:01	0°♄	
max. Earth dist.	1688 Feb 28 05:15	3°♄39'00	1.37532 AU	morning set	1689 Feb 04 14:31	7°♄35'45	
				max. Earth dist.	1689 Feb 09 00:19	15°♄04'26	1.39663 AU
superior conj	1688 Mar 05 23:47	16°♄22'45	-1°36'12				
minimum elong	1688 Mar 06 04:00	16°♄43'10	1°35'42	superior conj	1689 Feb 16 16:52	28°♄47'51	-1°55'06
	1688 Mar 12 21:19	0°♄		minimum elong	1689 Feb 16 20:28	29°♄04'24	1°54'51
evening rise	1688 Mar 14 14:24	3°♄24'38			1689 Feb 17 08:31	0°♄	
asc. node	1688 Mar 16 23:41	8°♄06'53		evening rise	1689 Feb 26 06:40	16°♄55'20	
	1688 Mar 30 19:07	0°♄		asc. node	1689 Mar 03 20:44	27°♄25'18	
evening max el	1688 Mar 31 09:25	0°♄35'41	19°13'17		1689 Mar 05 07:27	0°♄	
retrograde	1688 Apr 09 08:13	4°♄55'30		evening max el	1689 Mar 14 12:12	13°♄01'03	18°32'03
evening set	1688 Apr 11 11:19	4°♄41'51		retrograde	1689 Mar 22 04:00	16°♄46'34	
inferior conj	1688 Apr 19 18:54	0°♄31'30	1°18'58	evening set	1689 Mar 24 12:44	16°♄26'15	
minimum elong	1688 Apr 19 21:54	0°♄26'25	1°17'58	inferior conj	1689 Apr 01 01:00	11°♄57'11	2°38'45
	1688 Apr 20 13:32	30°♄		minimum elong	1689 Apr 01 05:01	11°♄49'16	2°37'44
min. Earth dist.	1688 Apr 22 16:32	28°♄34'59	0.56387 AU	min. Earth dist.	1689 Apr 04 11:04	9°♄16'56	0.58205 AU
desc. node	1688 Apr 24 11:39	27°♄28'16		morning rise	1689 Apr 08 18:20	6°♄33'16	
morning rise	1688 Apr 28 05:33	25°♄39'25		desc. node	1689 Apr 11 08:42	5°♄32'21	
direct	1688 May 03 02:31	24°♄44'32		direct	1689 Apr 14 15:59	5°♄04'14	
	1688 May 15 01:59	0°♄		morning max el	1689 Apr 29 01:09	12°♄43'13	26°42'51
morning max el	1688 May 17 07:40	2°♄00'26	25°21'01		1689 May 12 15:07	0°♄	
	1688 Jun 05 22:45	0°♄		morning set	1689 May 28 14:12	29°♄13'12	
asc. node	1688 Jun 12 22:59	13°♄56'36			1689 May 28 23:05	0°♄	
morning set	1688 Jun 13 03:47	14°♄21'53		asc. node	1689 May 30 20:02	3°♄59'24	
superior conj	1688 Jun 20 03:11	29°♄28'44	1°09'19	superior conj	1689 Jun 04 14:54	14°♄26'42	0°48'41
minimum elong	1688 Jun 20 00:48	29°♄15'45	1°08'56	minimum elong	1689 Jun 04 12:57	14°♄16'02	0°48'19
	1688 Jun 20 08:54	0°♄		max. Earth dist.	1689 Jun 04 17:24	14°♄40'30	1.32256 AU
max. Earth dist.	1688 Jun 21 05:47	1°♄54'00	1.32651 AU	evening rise	1689 Jun 11 12:47	29°♄24'44	
evening rise	1688 Jun 27 05:53	14°♄41'00			1689 Jun 11 19:31	0°♄	
	1688 Jul 05 03:02	0°♄			1689 Jun 28 09:08	0°♄	
desc. node	1688 Jul 21 10:59	25°♄20'45		desc. node	1689 Jul 08 08:00	13°♄02'48	
	1688 Jul 25 07:49	0°♄		evening max el	1689 Jul 11 11:12	16°♄15'47	26°41'01
evening max el	1688 Jul 29 08:28	4°♄11'24	27°18'59	retrograde	1689 Jul 25 10:25	23°♄29'23	
retrograde	1688 Aug 12 03:46	11°♄27'27		evening set	1689 Aug 01 05:13	21°♄31'24	
evening set	1688 Aug 19 08:18	9°♄01'03		min. Earth dist.	1689 Aug 05 00:52	18°♄54'20	0.60220 AU
min. Earth dist.	1688 Aug 22 22:22	6°♄09'57	0.62240 AU	inferior conj	1689 Aug 08 07:47	16°♄13'54	-4°40'22
inferior conj	1688 Aug 25 21:41	3°♄24'25	-4°01'51	minimum elong	1689 Aug 08 11:42	16°♄05'54	4°39'51
minimum elong	1688 Aug 26 02:55	3°♄12'12	4°00'36	morning rise	1689 Aug 15 20:09	11°♄33'03	
	1688 Aug 29 22:12	30°♄		direct	1689 Aug 18 06:35	11°♄10'51	
morning rise	1688 Sep 01 23:02	28°♄21'34		morning max el	1689 Aug 25 17:03	14°♄48'44	18°10'42
direct	1688 Sep 04 09:42	27°♄55'13		asc. node	1689 Aug 26 19:15	15°♄55'59	
asc. node	1688 Sep 08 22:12	29°♄27'55			1689 Sep 05 04:20	0°♄	
	1688 Sep 09 15:50	0°♄		morning set	1689 Sep 10 14:11	10°♄00'10	
morning max el	1688 Sep 11 05:12	1°♄22'25	17°53'18				
morning set	1688 Sep 27 05:50	26°♄26'20		superior conj	1689 Sep 20 03:54	27°♄46'10	1°26'14
	1688 Sep 29 05:22	0°♄		minimum elong	1689 Sep 20 07:50	28°♄03'50	1°25'52
					1689 Sep 21 09:45	0°♄	
superior conj	1688 Oct 08 05:09	15°♄47'40	0°59'59	max. Earth dist.	1689 Sep 27 18:51	11°♄05'07	1.41265 AU
minimum elong	1688 Oct 08 09:45	16°♄07'19	0°59'25	evening rise	1689 Oct 02 21:07	19°♄31'21	
max. Earth dist.	1688 Oct 15 10:09	27°♄49'27	1.43059 AU	desc. node	1689 Oct 04 07:22	21°♄49'28	
	1688 Oct 16 18:19	0°♄			1689 Oct 09 12:04	0°♄	
desc. node	1688 Oct 17 10:19	1°♄04'31			1689 Oct 30 17:13	0°♄	
evening rise	1688 Oct 22 19:25	9°♄36'20		evening max el	1689 Nov 05 17:17	6°♄48'35	22°56'43
	1688 Nov 05 07:22	0°♄		retrograde	1689 Nov 15 19:53	12°♄48'35	
evening max el	1688 Nov 23 01:05	23°♄16'04	21°38'24	evening set	1689 Nov 20 14:40	10°♄51'03	
retrograde	1688 Dec 02 01:04	28°♄37'25		asc. node	1689 Nov 22 18:28	8°♄40'37	
asc. node	1688 Dec 05 21:26	27°♄15'48		inferior conj	1689 Nov 25 23:24	4°♄28'56	1°05'00
evening set	1688 Dec 06 07:31	26°♄56'43		minimum elong	1689 Nov 25 21:57	4°♄33'57	1°04'24
inferior conj	1688 Dec 11 15:58	20°♄40'03	1°52'43	min. Earth dist.	1689 Nov 25 16:50	4°♄51'38	0.67802 AU
minimum elong	1688 Dec 11 13:42	20°♄47'51	1°51'54		1689 Nov 29 11:17	30°♄	

morning rise	1689 Dec 01 05:08	28° \mathbb{M} 19'23		transit middle	1690 Nov 10 05:43	18° \mathbb{M} 21'28	0°12'22
direct	1689 Dec 05 14:30	26° \mathbb{M} 33'38		transit begin	1690 Nov 10 03:56	18° \mathbb{M} 27'27	
	1689 Dec 12 14:52	0° \mathbb{X}		transit end	1690 Nov 10 07:29	18° \mathbb{M} 15'30	
morning max el	1689 Dec 14 12:10	1° \mathbb{X} 46'44	21°38'55	morning rise	1690 Nov 15 15:48	12° \mathbb{M} 16'08	
desc. node	1689 Dec 31 06:35	23° \mathbb{X} 34'51		direct	1690 Nov 19 11:51	10° \mathbb{M} 52'05	
	1690 Jan 04 14:49	0° \mathbb{Z}		morning max el	1690 Nov 27 08:54	15° \mathbb{M} 23'59	20°23'05
morning set	1690 Jan 15 10:36	16° \mathbb{Z} 42'31			1690 Dec 08 19:22	0° \mathbb{X}	
max. Earth dist.	1690 Jan 21 23:35	27° \mathbb{Z} 19'22	1.41745 AU	desc. node	1690 Dec 18 03:37	13° \mathbb{X} 49'07	
	1690 Jan 23 14:11	0° \approx		morning set	1690 Dec 25 09:12	24° \mathbb{X} 53'25	
					1690 Dec 28 15:56	0° \mathbb{Z}	
superior conj	1690 Jan 29 13:53	10° \approx 13'49	-2°04'18	max. Earth dist.	1691 Jan 04 06:51	10° \mathbb{Z} 30'16	1.43489 AU
minimum elong	1690 Jan 29 14:38	10° \approx 17'04	2°04'18				
evening rise	1690 Feb 09 10:39	29° \approx 46'56		superior conj	1691 Jan 10 09:50	20° \mathbb{Z} 29'42	-1°58'54
	1690 Feb 09 13:30	0° \mathbb{H}		minimum elong	1691 Jan 10 05:28	20° \mathbb{Z} 11'38	1°58'42
asc. node	1690 Feb 18 17:47	16° \mathbb{H} 16'16			1691 Jan 16 01:38	0° \approx	
evening max el	1690 Feb 25 21:15	25° \mathbb{H} 53'17	18°10'47	evening rise	1691 Jan 22 22:07	11° \approx 50'53	
retrograde	1690 Mar 04 17:31	29° \mathbb{H} 20'37			1691 Feb 02 13:48	0° \mathbb{H}	
evening set	1690 Mar 07 07:59	28° \mathbb{H} 51'17		asc. node	1691 Feb 05 14:48	4° \mathbb{H} 30'59	
inferior conj	1690 Mar 14 03:39	24° \mathbb{H} 01'25	3°24'54	evening max el	1691 Feb 09 09:22	9° \mathbb{H} 03'31	18°08'58
minimum elong	1690 Mar 14 06:16	23° \mathbb{H} 55'26	3°24'32	retrograde	1691 Feb 15 21:01	12° \mathbb{H} 27'36	
min. Earth dist.	1690 Mar 17 11:18	21° \mathbb{H} 00'40	0.60328 AU	evening set	1691 Feb 18 16:39	11° \mathbb{H} 48'00	
morning rise	1690 Mar 21 02:28	18° \mathbb{H} 15'32		inferior conj	1691 Feb 24 23:30	6° \mathbb{H} 37'30	3°43'20
direct	1690 Mar 27 17:48	16° \mathbb{H} 09'36		minimum elong	1691 Feb 25 00:04	6° \mathbb{H} 36'01	3°43'19
desc. node	1690 Mar 29 05:44	16° \mathbb{H} 15'45		min. Earth dist.	1691 Feb 27 19:30	3° \mathbb{H} 41'14	0.62423 AU
morning max el	1690 Apr 11 00:27	24° \mathbb{H} 00'30	27°34'21	morning rise	1691 Mar 03 06:19	0° \mathbb{H} 38'24	
	1690 Apr 16 10:29	0° \mathbb{Y}			1691 Mar 04 04:29	30° \mathbb{R} \approx	
	1690 May 05 20:07	0° \mathbb{B}		direct	1691 Mar 10 05:04	28° \approx 03'45	
morning set	1690 May 12 21:25	13° \mathbb{B} 52'44		desc. node	1691 Mar 16 02:46	29° \approx 40'38	
asc. node	1690 May 17 17:04	24° \mathbb{B} 07'47			1691 Mar 16 17:04	0° \mathbb{H}	
max. Earth dist.	1690 May 19 05:22	27° \mathbb{B} 25'47	1.32243 AU	morning max el	1691 Mar 24 05:30	5° \mathbb{H} 58'41	27°49'13
					1691 Apr 11 09:32	0° \mathbb{Y}	
superior conj	1690 May 20 02:20	29° \mathbb{B} 20'42	0°25'00	morning set	1691 Apr 26 23:25	28° \mathbb{Y} 13'37	
minimum elong	1690 May 20 01:13	29° \mathbb{B} 14'37	0°24'46		1691 Apr 27 20:17	0° \mathbb{B}	
	1690 May 20 09:29	0° \mathbb{I}		max. Earth dist.	1691 May 02 13:53	9° \mathbb{B} 57'01	1.32622 AU
evening rise	1690 May 26 23:05	14° \mathbb{I} 16'08					
	1690 Jun 03 20:45	0° \mathbb{E}		superior conj	1691 May 04 11:47	14° \mathbb{B} 04'54	-0°01'02
evening max el	1690 Jun 23 07:00	27° \mathbb{E} 34'07	25°32'29	minimum elong	1691 May 04 11:50	14° \mathbb{B} 05'11	0°01'01
desc. node	1690 Jun 25 05:01	29° \mathbb{E} 17'54		behind sun begin	1691 May 04 06:40	13° \mathbb{B} 37'10	
	1690 Jun 26 01:29	0° \mathbb{Q}		behind sun end	1691 May 04 17:00	14° \mathbb{B} 33'13	
retrograde	1690 Jul 07 07:36	4° \mathbb{Q} 42'58		asc. node	1691 May 04 14:08	14° \mathbb{B} 17'40	
evening set	1690 Jul 13 03:30	3° \mathbb{Q} 23'07		evening rise	1691 May 11 10:50	29° \mathbb{B} 08'30	
min. Earth dist.	1690 Jul 17 19:09	0° \mathbb{Q} 42'04	0.58172 AU		1691 May 11 20:35	0° \mathbb{I}	
	1690 Jul 18 19:29	30° \mathbb{R} \mathbb{E}			1691 May 28 19:28	0° \mathbb{E}	
inferior conj	1690 Jul 20 23:49	28° \mathbb{E} 26'54	-4°56'22	evening max el	1691 Jun 04 21:35	8° \mathbb{E} 15'55	24°02'56
minimum elong	1690 Jul 20 23:56	28° \mathbb{E} 26'40	4°56'22	desc. node	1691 Jun 12 02:00	13° \mathbb{E} 33'06	
morning rise	1690 Jul 28 22:49	24° \mathbb{E} 08'22		retrograde	1691 Jun 18 16:43	15° \mathbb{E} 12'15	
direct	1690 Jul 31 11:25	23° \mathbb{E} 48'29		evening set	1691 Jun 23 03:02	14° \mathbb{E} 28'51	
morning max el	1690 Aug 08 22:01	27° \mathbb{E} 47'58	18°48'33	min. Earth dist.	1691 Jun 29 08:23	11° \mathbb{E} 27'51	0.56393 AU
	1690 Aug 11 00:09	0° \mathbb{Q}		inferior conj	1691 Jul 01 19:44	9° \mathbb{E} 56'18	-4°36'03
asc. node	1690 Aug 13 16:18	3° \mathbb{Q} 26'41		minimum elong	1691 Jul 01 14:34	10° \mathbb{E} 04'19	4°35'20
morning set	1690 Aug 25 09:24	24° \mathbb{Q} 05'37		morning rise	1691 Jul 10 04:47	5° \mathbb{E} 56'37	
	1690 Aug 28 09:41	0° \mathbb{M}		direct	1691 Jul 12 21:25	5° \mathbb{E} 37'41	
				morning max el	1691 Jul 22 17:16	10° \mathbb{E} 11'13	19°47'44
superior conj	1690 Sep 02 23:00	10° \mathbb{M} 44'45	1°40'57	asc. node	1691 Jul 31 13:21	21° \mathbb{E} 46'28	
minimum elong	1690 Sep 03 01:05	10° \mathbb{M} 54'38	1°40'50		1691 Aug 05 03:42	0° \mathbb{Q}	
max. Earth dist.	1690 Sep 09 23:11	23° \mathbb{M} 37'46	1.39240 AU	morning set	1691 Aug 09 12:09	8° \mathbb{Q} 34'20	
evening rise	1690 Sep 13 22:25	0° \mathbb{L} 32'08					
	1690 Sep 13 14:54	0° \mathbb{L}		superior conj	1691 Aug 17 09:07	24° \mathbb{Q} 29'01	1°45'56
desc. node	1690 Sep 21 04:22	12° \mathbb{L} 27'48		minimum elong	1691 Aug 17 09:20	24° \mathbb{Q} 30'04	1°45'56
	1690 Oct 02 20:35	0° \mathbb{M}			1691 Aug 20 04:33	0° \mathbb{M}	
evening max el	1690 Oct 19 06:21	20° \mathbb{M} 24'47	24°16'34	max. Earth dist.	1691 Aug 23 03:42	5° \mathbb{M} 39'27	1.37238 AU
retrograde	1690 Oct 30 11:02	26° \mathbb{M} 58'19		evening rise	1691 Aug 26 23:02	12° \mathbb{M} 39'03	
evening set	1690 Nov 04 19:38	24° \mathbb{M} 43'52			1691 Sep 06 04:54	0° \mathbb{L}	
min. Earth dist.	1690 Nov 09 12:58	19° \mathbb{M} 17'50	0.67586 AU	desc. node	1691 Sep 08 01:23	2° \mathbb{L} 55'20	
asc. node	1690 Nov 09 15:30	19° \mathbb{M} 09'19			1691 Sep 27 21:42	0° \mathbb{M}	
inferior conj	1690 Nov 10 06:01	18° \mathbb{M} 20'26	0°12'30	evening max el	1691 Oct 01 18:23	4° \mathbb{M} 04'30	25°30'49
minimum elong	1690 Nov 10 05:43	18° \mathbb{M} 21'28	0°12'22	retrograde	1691 Oct 13 21:40	11° \mathbb{M} 02'38	

evening set	1691 Oct 19 20:43	8° \mathbb{M} 32'52		evening set	1692 Oct 02 15:58	22° \mathbb{A} 14'24	
min. Earth dist.	1691 Oct 24 06:10	3° \mathbb{M} 41'59	0.67040 AU	min. Earth dist.	1692 Oct 06 18:00	18° \mathbb{A} 00'05	0.66146 AU
inferior conj	1691 Oct 25 10:03	2° \mathbb{M} 12'20	-0°43'27	inferior conj	1692 Oct 08 09:35	16° \mathbb{A} 00'56	-1°41'20
minimum elong	1691 Oct 25 11:10	2° \mathbb{M} 08'45	0°42'58	minimum elong	1692 Oct 08 12:16	15° \mathbb{A} 52'51	1°40'14
	1691 Oct 27 04:14	30° \mathbb{R} \mathbb{A}		asc. node	1692 Oct 13 09:35	10° \mathbb{A} 53'00	
asc. node	1691 Oct 27 12:32	29° \mathbb{A} 35'22		morning rise	1692 Oct 14 09:06	10° \mathbb{A} 15'30	
morning rise	1691 Oct 31 01:50	26° \mathbb{A} 16'00		direct	1692 Oct 17 08:17	9° \mathbb{A} 25'59	
direct	1691 Nov 03 10:23	25° \mathbb{A} 10'59		morning max el	1692 Oct 24 00:30	13° \mathbb{A} 06'14	18°34'19
morning max el	1691 Nov 10 13:28	29° \mathbb{A} 11'47	19°20'53		1692 Nov 05 05:31	0° \mathbb{M}	
	1691 Nov 11 08:00	0° \mathbb{M}		morning set	1692 Nov 13 08:47	12° \mathbb{M} 57'15	
greatest brilliancy	1691 Nov 24 22:27	18° \mathbb{M} 44'18	-0.7m	desc. node	1692 Nov 20 21:42	24° \mathbb{M} 56'25	
	1691 Dec 02 06:09	0° \mathbb{A}			1692 Nov 24 02:37	0° \mathbb{A}	
morning set	1691 Dec 04 09:26	3° \mathbb{A} 18'47					
desc. node	1691 Dec 05 00:40	4° \mathbb{A} 17'53		superior conj	1692 Nov 29 05:59	8° \mathbb{A} 05'00	-0°53'47
max. Earth dist.	1691 Dec 17 21:18	24° \mathbb{A} 24'52	1.44662 AU	minimum elong	1692 Nov 28 23:12	7° \mathbb{A} 38'24	0°52'56
				max. Earth dist.	1692 Nov 29 15:38	8° \mathbb{A} 42'53	1.45126 AU
superior conj	1691 Dec 21 03:54	29° \mathbb{A} 36'38	-1°34'56		1692 Dec 13 03:50	0° \mathbb{B}	
minimum elong	1691 Dec 20 19:21	29° \mathbb{A} 02'34	1°34'08	evening rise	1692 Dec 15 04:26	3° \mathbb{B} 12'53	
	1691 Dec 21 09:46	0° \mathbb{B}		greatest brilliancy	1692 Dec 23 23:44	17° \mathbb{B} 11'17	-0.8m
evening rise	1692 Jan 04 12:57	23° \mathbb{B} 00'36			1693 Jan 01 12:38	0° \mathbb{A}	
	1692 Jan 08 17:48	0° \mathbb{A}		evening max el	1693 Jan 06 07:52	5° \mathbb{A} 51'48	19°00'43
asc. node	1692 Jan 23 11:49	21° \mathbb{A} 59'02		asc. node	1693 Jan 09 08:51	8° \mathbb{A} 27'16	
evening max el	1692 Jan 23 21:44	22° \mathbb{A} 24'45	18°25'55	retrograde	1693 Jan 13 05:00	9° \mathbb{A} 46'04	
retrograde	1692 Jan 30 10:08	25° \mathbb{A} 58'32		evening set	1693 Jan 16 11:57	8° \mathbb{A} 43'22	
evening set	1692 Feb 02 10:59	25° \mathbb{A} 07'52		inferior conj	1693 Jan 22 03:05	2° \mathbb{A} 56'56	3°23'43
inferior conj	1692 Feb 08 08:31	19° \mathbb{A} 38'12	3°41'05	minimum elong	1693 Jan 22 00:53	3° \mathbb{A} 03'51	3°23'21
minimum elong	1692 Feb 08 07:23	19° \mathbb{A} 41'29	3°41'01	min. Earth dist.	1693 Jan 23 16:32	0° \mathbb{A} 59'18	0.65726 AU
min. Earth dist.	1692 Feb 10 13:18	17° \mathbb{A} 05'37	0.64262 AU		1693 Jan 24 11:59	30° \mathbb{R} \mathbb{B}	
morning rise	1692 Feb 14 03:13	13° \mathbb{A} 31'24		morning rise	1693 Jan 27 13:31	26° \mathbb{B} 45'46	
direct	1692 Feb 21 00:01	10° \mathbb{A} 41'45		direct	1693 Feb 03 01:41	23° \mathbb{B} 55'13	
desc. node	1692 Mar 01 23:49	15° \mathbb{A} 15'27			1693 Feb 14 10:02	0° \mathbb{A}	
morning max el	1692 Mar 05 14:21	18° \mathbb{A} 33'14	27°27'44	morning max el	1693 Feb 16 00:19	1° \mathbb{A} 32'47	26°35'34
	1692 Mar 15 06:34	0° \mathbb{H}		desc. node	1693 Feb 16 20:52	2° \mathbb{A} 25'28	
	1692 Apr 03 07:21	0° \mathbb{Y}			1693 Mar 09 08:50	0° \mathbb{H}	
morning set	1692 Apr 09 17:31	12° \mathbb{Y} 07'14		morning set	1693 Mar 24 00:21	25° \mathbb{H} 23'35	
max. Earth dist.	1692 Apr 14 15:02	22° \mathbb{Y} 01'50	1.33430 AU		1693 Mar 26 09:58	0° \mathbb{Y}	
				max. Earth dist.	1693 Mar 28 05:27	3° \mathbb{Y} 33'34	1.34689 AU
superior conj	1692 Apr 17 17:23	28° \mathbb{Y} 32'44	-0°28'30				
minimum elong	1692 Apr 17 18:48	28° \mathbb{Y} 40'16	0°28'13	superior conj	1693 Apr 01 16:57	12° \mathbb{Y} 38'06	-0°56'15
	1692 Apr 18 09:46	0° \mathbb{B}		minimum elong	1693 Apr 01 19:46	12° \mathbb{Y} 52'38	0°55'43
asc. node	1692 Apr 20 11:08	4° \mathbb{B} 24'07		asc. node	1693 Apr 07 08:10	24° \mathbb{Y} 23'49	
evening rise	1692 Apr 24 22:12	13° \mathbb{B} 54'53		evening rise	1693 Apr 09 07:19	28° \mathbb{Y} 29'21	
	1692 May 03 02:17	0° \mathbb{II}			1693 Apr 10 00:53	0° \mathbb{B}	
evening max el	1692 May 16 12:45	18° \mathbb{II} 45'38	22°26'51	evening max el	1693 Apr 28 11:58	29° \mathbb{B} 35'24	20°58'23
desc. node	1692 May 28 23:01	25° \mathbb{II} 12'05			1693 Apr 28 22:18	0° \mathbb{II}	
retrograde	1692 May 29 13:28	25° \mathbb{II} 12'54		retrograde	1693 May 10 02:57	5° \mathbb{II} 14'55	
evening set	1692 Jun 01 14:03	24° \mathbb{II} 52'44		evening set	1693 May 12 07:25	5° \mathbb{II} 03'39	
min. Earth dist.	1692 Jun 09 19:54	21° \mathbb{II} 18'51	0.55221 AU	desc. node	1693 May 15 20:02	4° \mathbb{II} 02'25	
inferior conj	1692 Jun 10 21:37	20° \mathbb{II} 42'26	-3°28'32	inferior conj	1693 May 21 15:23	1° \mathbb{II} 05'25	-1°40'36
minimum elong	1692 Jun 10 13:48	20° \mathbb{II} 53'31	3°26'26	minimum elong	1693 May 21 10:40	1° \mathbb{II} 12'07	1°38'55
morning rise	1692 Jun 19 15:36	16° \mathbb{II} 50'30		min. Earth dist.	1693 May 22 08:20	0° \mathbb{II} 41'24	0.54934 AU
direct	1692 Jun 22 14:01	16° \mathbb{II} 30'55			1693 May 23 13:53	30° \mathbb{R} \mathbb{B}	
morning max el	1692 Jul 04 01:10	21° \mathbb{II} 50'53	21°07'31	morning rise	1693 May 30 13:46	27° \mathbb{B} 01'49	
	1692 Jul 10 22:13	0° \mathbb{B}		direct	1693 Jun 02 23:27	26° \mathbb{B} 36'49	
asc. node	1692 Jul 17 10:23	10° \mathbb{B} 42'41			1693 Jun 12 12:09	0° \mathbb{II}	
morning set	1692 Jul 23 19:52	23° \mathbb{B} 18'02		morning max el	1693 Jun 15 22:45	2° \mathbb{II} 49'09	22°43'16
	1692 Jul 27 01:02	0° \mathbb{Q}		asc. node	1693 Jul 04 07:27	0° \mathbb{B} 06'16	
					1693 Jul 04 06:11	0° \mathbb{B}	
superior conj	1692 Jul 31 05:49	8° \mathbb{Q} 45'09	1°43'04	morning set	1693 Jul 08 06:30	8° \mathbb{B} 10'48	
minimum elong	1692 Jul 31 04:36	8° \mathbb{Q} 38'50	1°43'00				
max. Earth dist.	1692 Aug 04 13:32	17° \mathbb{Q} 30'43	1.35465 AU	superior conj	1693 Jul 15 09:45	23° \mathbb{B} 22'55	1°33'52
evening rise	1692 Aug 08 18:44	25° \mathbb{Q} 40'37		minimum elong	1693 Jul 15 07:39	23° \mathbb{B} 11'46	1°33'40
	1692 Aug 11 02:32	0° \mathbb{II}		max. Earth dist.	1693 Jul 18 08:07	29° \mathbb{B} 33'14	1.34052 AU
desc. node	1692 Aug 24 22:23	23° \mathbb{II} 05'39			1693 Jul 18 13:16	0° \mathbb{Q}	
	1692 Aug 29 15:44	0° \mathbb{A}		evening rise	1693 Jul 23 04:55	9° \mathbb{Q} 24'43	
evening max el	1692 Sep 13 06:25	17° \mathbb{A} 42'16	26°31'58		1693 Aug 03 13:12	0° \mathbb{II}	
retrograde	1692 Sep 26 03:18	24° \mathbb{A} 55'14		desc. node	1693 Aug 11 19:23	12° \mathbb{II} 51'08	

	1693 Aug 25 13:57	0°♄			1694 Jul 10 06:08	0°♄	
evening max el	1693 Aug 26 18:22	1°♄09'43	27°12'36		1694 Jul 28 05:06	0°♄	
retrograde	1693 Sep 09 03:32	8°♄28'31		desc. node	1694 Jul 29 16:24	2°♄01'23	
evening set	1693 Sep 16 02:55	5°♄44'21		evening max el	1694 Aug 09 04:53	14°♄15'37	27°25'57
min. Earth dist.	1693 Sep 19 22:20	2°♄06'10	0.64891 AU	retrograde	1694 Aug 22 21:42	21°♄33'36	
	1693 Sep 21 19:58	30°♄		evening set	1694 Aug 30 02:27	18°♄57'16	
inferior conj	1693 Sep 22 02:25	29°♄42'07	-2°39'06	min. Earth dist.	1694 Sep 02 17:17	15°♄51'12	0.63287 AU
minimum elong	1693 Sep 22 06:35	29°♄30'34	2°37'36	inferior conj	1694 Sep 05 09:55	13°♄10'11	-3°33'43
morning rise	1693 Sep 28 11:09	24°♄10'34		minimum elong	1694 Sep 05 15:05	12°♄57'18	3°32'13
asc. node	1693 Sep 30 06:39	23°♄36'43		morning rise	1694 Sep 12 04:59	7°♄55'44	
direct	1693 Oct 01 03:21	23°♄32'45		direct	1694 Sep 14 16:51	7°♄26'04	
morning max el	1693 Oct 07 15:32	27°♄01'44	18°04'25	asc. node	1694 Sep 17 03:44	7°♄55'22	
	1693 Oct 10 06:07	0°♄		morning max el	1694 Sep 21 07:42	10°♄51'54	17°52'05
morning set	1693 Oct 25 13:16	24°♄01'40			1694 Oct 04 04:04	0°♄	
	1693 Oct 29 03:30	0°♄		morning set	1694 Oct 07 18:48	6°♄18'49	
desc. node	1693 Nov 07 18:43	15°♄40'51					
				superior conj	1694 Oct 19 18:12	26°♄49'48	0°39'16
superior conj	1693 Nov 08 12:54	16°♄53'29	-0°05'06	minimum elong	1694 Oct 19 21:59	27°♄05'28	0°38'45
minimum elong	1693 Nov 08 12:16	16°♄50'56	0°05'01		1694 Oct 21 16:15	0°♄	
behind sun begin	1693 Nov 08 02:02	16°♄10'05		desc. node	1694 Oct 25 15:45	6°♄28'16	
behind sun end	1693 Nov 08 22:29	17°♄31'44		max. Earth dist.	1694 Oct 26 02:59	7°♄13'26	1.43886 AU
max. Earth dist.	1693 Nov 12 10:21	23°♄04'18	1.44853 AU	evening rise	1694 Nov 04 06:57	21°♄38'20	
	1693 Nov 16 20:15	0°♄			1694 Nov 09 18:12	0°♄	
evening rise	1693 Nov 24 22:43	12°♄35'25			1694 Dec 01 00:25	0°♄	
	1693 Dec 06 07:21	0°♄		evening max el	1694 Dec 03 14:26	2°♄51'21	20°56'25
greatest brilliancy	1693 Dec 08 12:35	3°♄19'26	-0.7m	retrograde	1694 Dec 12 00:13	7°♄50'06	
evening max el	1693 Dec 20 13:48	19°♄20'49	19°51'45	asc. node	1694 Dec 14 02:58	7°♄25'07	
asc. node	1693 Dec 27 05:55	23°♄40'11		evening set	1694 Dec 16 00:20	6°♄18'54	
retrograde	1693 Dec 28 02:30	23°♄44'16		inferior conj	1694 Dec 21 09:18	0°♄07'23	2°17'33
evening set	1693 Dec 31 17:04	22°♄28'09		minimum elong	1694 Dec 21 06:47	0°♄16'04	2°16'43
inferior conj	1694 Jan 06 04:10	16°♄27'39	2°55'01		1694 Dec 21 11:27	30°♄	
minimum elong	1694 Jan 06 01:32	16°♄36'25	2°54'20	min. Earth dist.	1694 Dec 21 20:11	29°♄30'04	0.67474 AU
min. Earth dist.	1694 Jan 07 03:34	15°♄09'50	0.66792 AU	morning rise	1694 Dec 26 13:01	23°♄54'14	
morning rise	1694 Jan 11 09:46	10°♄14'31		direct	1694 Dec 31 21:52	21°♄32'53	
direct	1694 Jan 17 09:16	7°♄34'37		morning max el	1695 Jan 11 17:37	28°♄00'03	23°55'12
morning max el	1694 Jan 29 09:16	14°♄43'49	25°21'20		1695 Jan 13 15:09	0°♄	
desc. node	1694 Feb 03 17:55	20°♄42'25		desc. node	1695 Jan 21 14:59	9°♄47'14	
	1694 Feb 10 21:38	0°♄			1695 Feb 04 14:55	0°♄	
	1694 Mar 02 05:02	0°♄		morning set	1695 Feb 16 07:50	19°♄04'14	
morning set	1694 Mar 06 15:07	7°♄48'05		max. Earth dist.	1695 Feb 20 03:25	25°♄44'15	1.38433 AU
max. Earth dist.	1694 Mar 10 08:02	14°♄37'44	1.36390 AU		1695 Feb 22 12:19	0°♄	
superior conj	1694 Mar 16 07:41	26°♄12'22	-1°22'36	superior conj	1695 Feb 27 09:59	9°♄06'18	-1°45'08
minimum elong	1694 Mar 16 11:36	26°♄31'50	1°22'01	minimum elong	1695 Feb 27 14:08	9°♄26'04	1°44'43
	1694 Mar 18 05:14	0°♄		evening rise	1695 Mar 08 09:36	26°♄33'38	
evening rise	1694 Mar 24 11:58	12°♄44'33			1695 Mar 10 03:56	0°♄	
asc. node	1694 Mar 25 05:13	14°♄11'33		asc. node	1695 Mar 12 02:16	3°♄42'18	
	1694 Apr 02 15:49	0°♄		evening max el	1695 Mar 24 20:42	23°♄09'07	18°53'15
evening max el	1694 Apr 10 22:53	11°♄02'47	19°46'06	retrograde	1695 Apr 02 04:39	27°♄11'47	
retrograde	1694 Apr 20 20:08	15°♄48'50		evening set	1695 Apr 04 10:11	26°♄55'34	
evening set	1694 Apr 22 21:01	15°♄37'36		inferior conj	1695 Apr 12 09:24	22°♄37'57	1°57'06
inferior conj	1694 May 01 15:34	11°♄35'48	0°18'24	minimum elong	1695 Apr 12 13:15	22°♄31'01	1°55'56
minimum elong	1694 May 01 16:22	11°♄34'33	0°18'07	min. Earth dist.	1695 Apr 15 14:37	20°♄20'22	0.57109 AU
desc. node	1694 May 02 17:05	10°♄56'06		desc. node	1695 Apr 19 14:08	17°♄57'49	
min. Earth dist.	1694 May 03 22:26	10°♄10'55	0.55615 AU	morning rise	1695 Apr 20 13:13	17°♄31'39	
morning rise	1694 May 10 09:17	7°♄03'18		direct	1695 Apr 25 21:30	16°♄22'59	
direct	1694 May 14 15:46	6°♄22'45		morning max el	1695 May 10 04:58	23°♄50'01	25°58'49
morning max el	1694 May 28 14:01	13°♄20'13	24°25'11		1695 May 15 18:59	0°♄	
	1694 Jun 10 11:47	0°♄			1695 Jun 03 07:39	0°♄	
asc. node	1694 Jun 21 04:31	19°♄49'43		morning set	1695 Jun 07 05:43	8°♄01'50	
morning set	1694 Jun 22 18:20	23°♄07'15		asc. node	1695 Jun 08 01:32	9°♄46'51	
	1694 Jun 25 23:25	0°♄					
				superior conj	1695 Jun 14 05:21	23°♄10'58	1°00'59
superior conj	1694 Jun 29 18:18	8°♄13'57	1°19'31	minimum elong	1695 Jun 14 03:06	22°♄58'39	1°00'35
minimum elong	1694 Jun 29 15:53	8°♄00'49	1°19'12	max. Earth dist.	1695 Jun 14 21:19	24°♄38'33	1.32436 AU
max. Earth dist.	1694 Jul 01 11:33	11°♄56'54	1.33044 AU		1695 Jun 17 08:16	0°♄	
evening rise	1694 Jul 07 01:35	23°♄39'51		evening rise	1695 Jun 21 05:31	8°♄15'41	

	1695 Jul 02 16:09	0°♎		evening rise	1696 Jun 04 14:08	23°♐03'59	
desc. node	1695 Jul 16 13:26	20°♎21'18			1696 Jun 07 22:53	0°♐	
evening max el	1695 Jul 22 11:25	26°♎46'03	27°07'05		1696 Jun 25 23:08	0°♎	
	1695 Jul 26 06:50	0°♐		desc. node	1696 Jul 02 10:26	7°♎30'01	
retrograde	1695 Aug 05 08:37	4°♐00'29		evening max el	1696 Jul 03 11:17	8°♎30'50	26°15'12
evening set	1695 Aug 12 10:23	1°♐45'00		retrograde	1696 Jul 17 11:03	15°♎42'11	
	1695 Aug 14 21:13	30°♐♎		evening set	1696 Jul 23 22:02	13°♎59'38	
min. Earth dist.	1695 Aug 16 01:41	29°♎01'38	0.61393 AU	min. Earth dist.	1696 Jul 28 00:06	11°♎23'22	0.59342 AU
inferior conj	1695 Aug 19 04:52	26°♎16'22	-4°20'15	inferior conj	1696 Jul 31 07:39	8°♎51'20	-4°50'42
minimum elong	1695 Aug 19 09:49	26°♎05'26	4°19'17	minimum elong	1696 Jul 31 10:16	8°♎46'18	4°50'29
morning rise	1695 Aug 26 10:52	21°♎22'16		morning rise	1696 Aug 08 00:36	4°♎20'05	
direct	1695 Aug 28 21:09	20°♎57'52		direct	1696 Aug 10 11:53	3°♎58'55	
asc. node	1695 Sep 04 00:47	23°♎39'57		morning max el	1696 Aug 18 07:11	7°♎44'07	18°24'16
morning max el	1695 Sep 04 21:56	24°♎28'38	17°58'17	asc. node	1696 Aug 20 21:49	10°♎36'10	
	1695 Sep 09 10:18	0°♐			1696 Sep 01 14:59	0°♐	
morning set	1695 Sep 20 18:56	19°♐28'56		morning set	1696 Sep 03 08:20	3°♐17'13	
	1695 Sep 26 13:17	0°♎					
superior conj	1695 Oct 01 02:38	8°♎05'33	1°12'37	superior conj	1696 Sep 12 10:42	20°♐31'14	1°33'48
minimum elong	1695 Oct 01 07:11	8°♎25'28	1°12'06	minimum elong	1696 Sep 12 13:54	20°♐45'59	1°33'32
max. Earth dist.	1695 Oct 08 15:23	20°♎53'55	1.42342 AU		1696 Sep 17 16:57	0°♎	
desc. node	1695 Oct 12 12:46	27°♎14'46		max. Earth dist.	1696 Sep 19 22:17	3°♎52'19	1.40418 AU
	1695 Oct 14 06:04	0°♐		evening rise	1696 Sep 24 09:19	11°♎24'29	
evening rise	1695 Oct 14 22:03	1°♐03'26		desc. node	1696 Sep 28 09:47	17°♎56'58	
	1695 Nov 03 07:18	0°♐			1696 Oct 06 04:33	0°♐	
evening max el	1695 Nov 16 09:31	16°♐22'46	22°11'07	evening max el	1696 Oct 29 00:03	29°♐56'05	23°30'51
retrograde	1695 Nov 25 20:26	22°♐00'07			1696 Oct 29 01:37	0°♐	
evening set	1695 Nov 30 08:00	20°♐12'18		retrograde	1696 Nov 08 13:45	6°♐11'00	
asc. node	1695 Dec 01 00:01	19°♐37'24		evening set	1696 Nov 13 14:25	4°♐05'56	
inferior conj	1695 Dec 05 16:25	13°♐53'04	1°33'09	asc. node	1696 Nov 16 21:03	0°♐32'36	
minimum elong	1695 Dec 05 14:27	13°♐59'52	1°32'24		1696 Nov 17 07:05	30°♐♐	
min. Earth dist.	1695 Dec 05 15:57	13°♐54'42	0.67786 AU	inferior conj	1696 Nov 18 23:42	27°♐42'45	0°43'13
morning rise	1695 Dec 10 20:47	7°♐41'50		minimum elong	1696 Nov 18 22:41	27°♐46'11	0°42'48
direct	1695 Dec 15 14:34	5°♐42'53		min. Earth dist.	1696 Nov 18 12:35	28°♐20'47	0.67753 AU
morning max el	1695 Dec 25 04:19	11°♐22'06	22°27'11	morning rise	1696 Nov 24 06:55	21°♐35'23	
desc. node	1696 Jan 08 12:01	29°♐26'05		direct	1696 Nov 28 10:24	19°♐59'16	
	1696 Jan 08 21:35	0°♐		morning max el	1696 Dec 06 20:52	24°♐53'28	21°05'15
morning set	1696 Jan 27 20:43	28°♐58'13			1696 Dec 11 09:00	0°♐	
	1696 Jan 28 11:50	0°♐		desc. node	1696 Dec 25 09:03	19°♐29'16	
max. Earth dist.	1696 Feb 01 23:59	7°♐30'32	1.40582 AU		1697 Jan 01 08:18	0°♐	
				morning set	1697 Jan 06 05:48	7°♐35'19	
superior conj	1696 Feb 09 19:14	21°♐08'19	-2°00'28	max. Earth dist.	1697 Jan 14 03:00	20°♐11'43	1.42544 AU
minimum elong	1696 Feb 09 21:56	21°♐20'29	2°00'21		1697 Jan 20 00:35	0°♐	
	1696 Feb 14 15:28	0°♐					
evening rise	1696 Feb 19 21:07	9°♐49'04		superior conj	1697 Jan 21 06:05	2°♐05'15	-2°04'05
asc. node	1696 Feb 26 23:18	22°♐50'06		minimum elong	1697 Jan 21 04:51	2°♐00'00	2°04'04
	1696 Mar 02 09:48	0°♐		evening rise	1697 Feb 01 18:40	22°♐21'49	
evening max el	1696 Mar 07 02:34	5°♐47'21	18°20'31		1697 Feb 06 00:57	0°♐	
retrograde	1696 Mar 14 08:28	9°♐23'07		asc. node	1697 Feb 12 20:20	11°♐26'54	
evening set	1696 Mar 16 19:50	8°♐59'02		evening max el	1697 Feb 18 13:13	18°♐47'55	18°07'35
inferior conj	1696 Mar 24 00:33	4°♐20'51	3°02'10	retrograde	1697 Feb 25 04:43	22°♐12'33	
minimum elong	1696 Mar 24 04:09	4°♐13'16	3°01'26	evening set	1697 Feb 27 21:20	21°♐39'02	
min. Earth dist.	1696 Mar 27 10:58	1°♐29'05	0.59096 AU	inferior conj	1697 Mar 06 11:04	16°♐40'01	3°35'40
	1696 Mar 29 10:43	30°♐♐		minimum elong	1697 Mar 06 12:49	16°♐35'46	3°35'30
morning rise	1696 Mar 31 09:55	28°♐46'34		min. Earth dist.	1697 Mar 09 14:23	13°♐38'25	0.61235 AU
desc. node	1696 Apr 05 11:10	27°♐05'42		morning rise	1697 Mar 13 02:37	10°♐47'20	
direct	1696 Apr 06 16:15	27°♐01'47		direct	1697 Mar 19 22:07	8°♐28'00	
	1696 Apr 15 06:03	0°♐		desc. node	1697 Mar 23 08:13	9°♐00'26	
morning max el	1696 Apr 21 00:44	4°♐45'59	27°09'05	morning max el	1697 Apr 03 02:54	16°♐21'39	27°45'21
	1696 May 09 14:26	0°♐			1697 Apr 14 08:13	0°♐	
morning set	1696 May 21 15:01	22°♐49'16		morning set	1697 May 02 04:02	0°♐	
asc. node	1696 May 24 22:34	29°♐52'45			1697 May 05 20:18	7°♐21'56	
	1696 May 24 23:55	0°♐		asc. node	1697 May 11 19:36	20°♐02'05	
				max. Earth dist.	1697 May 11 20:52	20°♐09'01	1.32357 AU
superior conj	1696 May 28 17:08	8°♐08'05	0°38'59				
minimum elong	1696 May 28 15:31	7°♐59'07	0°38'38	superior conj	1697 May 13 03:56	22°♐58'25	0°14'13
max. Earth dist.	1696 May 28 09:46	7°♐27'32	1.32208 AU	minimum elong	1697 May 13 03:17	22°♐54'52	0°14'03
				behind sun begin	1697 May 13 00:55	22°♐41'55	

behind sun end	1697 May 13 05:39	23°♄07'48		superior conj	1698 Apr 27 12:00	7°♄36'25	-0°12'34
	1697 May 16 08:58	0°♄		minimum elong	1698 Apr 27 12:37	7°♄39'43	0°12'27
evening rise	1697 May 20 01:16	7°♄56'19		behind sun begin	1698 Apr 27 09:18	7°♄21'54	
	1697 May 31 13:00	0°♄		behind sun end	1698 Apr 27 15:55	7°♄57'32	
evening max el	1697 Jun 15 04:04	19°♄30'00	24°56'00	asc. node	1698 Apr 28 16:38	10°♄10'54	
desc. node	1697 Jun 19 07:26	22°♄58'12		evening rise	1698 May 04 13:05	22°♄46'34	
retrograde	1697 Jun 29 03:28	26°♄35'40			1698 May 08 00:57	0°♄	
evening set	1697 Jul 04 10:08	25°♄32'02		evening max el	1698 May 27 17:55	0°♄02'25	23°21'49
min. Earth dist.	1697 Jul 09 15:30	22°♄44'17	0.57363 AU		1698 May 27 16:55	0°♄	
inferior conj	1697 Jul 12 15:06	20°♄45'26	-4°53'00	desc. node	1698 Jun 06 04:28	6°♄10'25	
minimum elong	1697 Jul 12 12:59	20°♄48'58	4°52'53	retrograde	1698 Jun 10 07:38	6°♄49'16	
morning rise	1697 Jul 20 18:31	16°♄36'12		evening set	1698 Jun 14 02:20	6°♄17'55	
direct	1697 Jul 23 08:39	16°♄16'55		min. Earth dist.	1698 Jun 21 03:56	3°♄04'07	0.55800 AU
morning max el	1697 Aug 01 08:21	20°♄28'57	19°11'12	inferior conj	1698 Jun 23 02:39	1°♄55'04	-4°13'19
asc. node	1697 Aug 07 18:50	28°♄28'47		minimum elong	1698 Jun 22 19:44	2°♄05'19	4°11'57
	1697 Aug 08 18:14	0°♄			1698 Jun 26 11:56	30°♄♄	
morning set	1697 Aug 18 07:03	17°♄32'54		morning rise	1698 Jul 01 15:45	28°♄00'23	
	1697 Aug 24 13:29	0°♄		direct	1698 Jul 04 10:13	27°♄41'38	
					1698 Jul 11 16:19	0°♄	
superior conj	1697 Aug 26 12:48	3°♄50'49	1°44'08	morning max el	1698 Jul 14 22:55	2°♄34'08	20°19'20
minimum elong	1697 Aug 26 14:03	3°♄56'53	1°44'05	asc. node	1698 Jul 25 15:53	17°♄04'57	
max. Earth dist.	1697 Sep 02 01:43	16°♄07'55	1.38365 AU		1698 Aug 01 10:56	0°♄	
evening rise	1697 Sep 05 20:49	22°♄53'28		morning set	1698 Aug 02 12:09	2°♄08'02	
	1697 Sep 10 00:50	0°♄					
desc. node	1697 Sep 15 06:47	8°♄30'56		superior conj	1698 Aug 10 03:51	17°♄49'34	1°45'34
	1697 Sep 30 00:44	0°♄		minimum elong	1698 Aug 10 03:24	17°♄47'13	1°45'34
evening max el	1697 Oct 11 12:13	13°♄33'01	24°49'18	max. Earth dist.	1698 Aug 15 07:24	27°♄59'43	1.36441 AU
retrograde	1697 Oct 23 03:14	20°♄19'01			1698 Aug 16 08:34	0°♄	
evening set	1697 Oct 28 17:58	17°♄57'30		evening rise	1698 Aug 19 06:06	5°♄24'52	
min. Earth dist.	1697 Nov 02 07:45	12°♄46'15	0.67386 AU	desc. node	1698 Sep 02 03:47	28°♄51'29	
inferior conj	1697 Nov 03 05:25	11°♄34'31	-0°10'55		1698 Sep 02 21:38	0°♄	
minimum elong	1697 Nov 03 05:41	11°♄33'38	0°10'47	evening max el	1698 Sep 24 00:06	27°♄12'08	25°59'03
transit middle	1697 Nov 03 05:41	11°♄33'38	0°10'47		1698 Sep 27 03:00	0°♄	
transit begin	1697 Nov 03 03:38	11°♄40'27		retrograde	1698 Oct 06 11:56	4°♄18'29	
transit end	1697 Nov 03 07:45	11°♄26'48		evening set	1698 Oct 12 16:49	1°♄43'28	
asc. node	1697 Nov 03 18:05	10°♄52'46			1698 Oct 14 12:00	30°♄♄	
morning rise	1697 Nov 08 17:32	5°♄33'22		min. Earth dist.	1698 Oct 16 23:04	27°♄07'47	0.66691 AU
direct	1697 Nov 12 08:21	4°♄18'00		inferior conj	1698 Oct 18 07:47	25°♄25'11	-1°07'54
morning max el	1697 Nov 19 21:05	8°♄35'46	19°54'53	minimum elong	1698 Oct 18 09:33	25°♄19'37	1°07'09
	1697 Dec 05 18:34	0°♄		asc. node	1698 Oct 21 15:07	21°♄34'20	
desc. node	1697 Dec 12 06:04	9°♄50'06		morning rise	1698 Oct 24 02:38	19°♄32'55	
morning set	1697 Dec 16 01:52	15°♄43'11		direct	1698 Oct 27 06:51	18°♄35'00	
	1697 Dec 25 05:18	0°♄		morning max el	1698 Nov 03 04:35	22°♄26'17	18°59'05
max. Earth dist.	1697 Dec 27 13:18	3°♄42'13	1.44057 AU		1698 Nov 09 07:47	0°♄	
				morning set	1698 Nov 25 10:01	24°♄33'57	
superior conj	1698 Jan 01 14:42	11°♄50'26	-1°51'07		1698 Nov 28 21:14	0°♄	
minimum elong	1698 Jan 01 08:06	11°♄23'41	1°50'40	desc. node	1698 Nov 29 03:05	0°♄22'56	
	1698 Jan 12 12:43	0°♄		max. Earth dist.	1698 Dec 10 05:15	17°♄46'46	1.44944 AU
evening rise	1698 Jan 14 21:55	4°♄03'50					
asc. node	1698 Jan 30 17:22	29°♄23'34		superior conj	1698 Dec 11 23:56	20°♄34'54	-1°19'12
	1698 Jan 31 05:12	0°♄		minimum elong	1698 Dec 11 15:16	20°♄00'45	1°18'15
evening max el	1698 Feb 02 01:47	2°♄03'47	18°13'55		1698 Dec 17 22:30	0°♄	
retrograde	1698 Feb 08 12:52	5°♄30'46		evening rise	1698 Dec 27 02:51	14°♄48'03	
evening set	1698 Feb 11 10:33	4°♄46'45			1699 Jan 05 11:29	0°♄	
	1698 Feb 17 01:20	30°♄♄		evening max el	1699 Jan 16 13:32	15°♄27'59	18°38'42
inferior conj	1698 Feb 17 13:04	29°♄28'03	3°44'31	asc. node	1699 Jan 17 14:25	16°♄27'47	
minimum elong	1698 Feb 17 12:50	29°♄28'39	3°44'31	retrograde	1699 Jan 23 04:44	19°♄09'03	
min. Earth dist.	1698 Feb 20 02:52	26°♄39'37	0.63243 AU	evening set	1699 Jan 26 08:02	18°♄13'27	
morning rise	1698 Feb 23 14:13	23°♄24'53		inferior conj	1699 Feb 01 02:33	12°♄36'41	3°35'18
direct	1698 Mar 02 13:05	20°♄41'47		minimum elong	1699 Feb 01 00:53	12°♄41'41	3°35'06
desc. node	1698 Mar 10 05:16	23°♄25'05		min. Earth dist.	1699 Feb 03 00:49	10°♄17'47	0.64936 AU
morning max el	1698 Mar 16 10:03	28°♄37'15	27°44'11	morning rise	1699 Feb 06 17:18	6°♄27'48	
	1698 Mar 17 18:16	0°♄		direct	1699 Feb 13 11:15	3°♄35'48	
	1698 Apr 08 03:47	0°♄		desc. node	1699 Feb 25 02:18	9°♄43'41	
morning set	1698 Apr 19 19:19	21°♄32'32		morning max el	1699 Feb 26 19:28	11°♄22'59	27°08'44
	1698 Apr 23 22:14	0°♄			1699 Mar 13 15:04	0°♄	
max. Earth dist.	1698 Apr 25 02:36	2°♄29'38	1.32913 AU		1699 Mar 31 15:40	0°♄	

morning set	1699 Apr 03 09:08	5°♂11'44		morning set	1700 Mar 17 09:47	18°♂07'27	
max. Earth dist.	1699 Apr 07 23:16	14°♂19'20	1.33908 AU	max. Earth dist.	1700 Mar 21 08:35	25°♂37'31	1.35364 AU
					1700 Mar 23 14:06	0°♂	
superior conj	1699 Apr 11 15:23	21°♂55'53	-0°40'19	superior conj	1700 Mar 26 11:37	5°♂49'06	-1°07'43
minimum elong	1699 Apr 11 17:24	22°♂06'30	0°39'55	minimum elong	1700 Mar 26 14:58	6°♂06'07	1°07'08
	1699 Apr 15 10:50	0°♂					
asc. node	1699 Apr 15 13:42	0°♂15'15		asc. node	1700 Apr 02 10:46	20°♂10'29	
evening rise	1699 Apr 18 23:45	7°♂28'42		evening rise	1700 Apr 03 07:16	21°♂55'55	
	1699 May 01 01:54	0°♂			1700 Apr 07 07:47	0°♂	
evening max el	1699 May 09 12:02	10°♂38'36	21°47'41	evening max el	1700 Apr 21 16:08	21°♂43'20	20°25'21
retrograde	1699 May 21 23:58	16°♂46'36		retrograde	1700 May 02 13:10	26°♂59'32	
desc. node	1699 May 24 01:30	16°♂37'00		evening set	1700 May 04 14:48	26°♂48'54	
evening set	1699 May 24 13:47	16°♂31'44		desc. node	1700 May 10 22:33	24°♂26'38	
inferior conj	1699 Jun 02 23:37	12°♂28'53	-2°46'25	inferior conj	1700 May 13 18:19	22°♂50'58	-0°49'20
minimum elong	1699 Jun 02 16:26	12°♂38'55	2°44'09	minimum elong	1700 May 13 16:00	22°♂54'21	0°48'29
min. Earth dist.	1699 Jun 02 15:56	12°♂39'37	0.54984 AU	min. Earth dist.	1700 May 15 04:41	22°♂00'57	0.55113 AU
morning rise	1699 Jun 11 20:14	8°♂34'10		morning rise	1700 May 22 16:03	18°♂37'06	
direct	1699 Jun 14 22:38	8°♂12'58		direct	1700 May 26 09:43	18°♂06'57	
morning max el	1699 Jun 27 02:05	13°♂55'33	21°46'39	morning max el	1700 Jun 08 20:12	24°♂39'15	23°26'38
	1699 Jul 09 02:22	0°♂			1700 Jun 13 18:10	0°♂	
asc. node	1699 Jul 12 12:56	6°♂14'10		asc. node	1700 Jun 29 10:00	25°♂47'07	
morning set	1699 Jul 17 21:24	16°♂56'46			1700 Jul 01 11:22	0°♂	
	1699 Jul 24 02:04	0°♂		morning set	1700 Jul 02 08:47	1°♂52'05	
superior conj	1699 Jul 25 04:02	2°♂16'21	1°39'51	superior conj	1700 Jul 09 10:14	17°♂00'40	1°28'21
minimum elong	1699 Jul 25 02:23	2°♂07'38	1°39'44	minimum elong	1700 Jul 09 07:56	16°♂48'20	1°28'05
max. Earth dist.	1699 Jul 28 20:58	9°♂54'59	1.34820 AU	max. Earth dist.	1700 Jul 11 19:52	22°♂07'53	1.33580 AU
evening rise	1699 Aug 02 08:37	18°♂46'54			1700 Jul 15 14:52	0°♂	
	1699 Aug 08 10:31	0°♂		evening rise	1700 Jul 16 23:45	2°♂45'35	
desc. node	1699 Aug 20 00:49	18°♂52'33			1700 Aug 01 06:28	0°♂	
	1699 Aug 28 00:38	0°♂		desc. node	1700 Aug 06 21:51	8°♂24'38	
evening max el	1699 Sep 06 12:30	10°♂47'54	26°52'17	evening max el	1700 Aug 20 00:13	24°♂07'57	27°21'52
retrograde	1699 Sep 19 15:15	18°♂03'44			1700 Aug 27 22:42	0°♂	
evening set	1699 Sep 26 08:52	15°♂20'44		retrograde	1700 Sep 02 12:41	1°♂26'03	
min. Earth dist.	1699 Sep 30 08:06	11°♂21'43	0.65656 AU		1700 Sep 07 17:15	30°♂	
inferior conj	1699 Oct 02 04:47	9°♂11'36	-2°05'59	evening set	1700 Sep 09 15:21	28°♂43'45	
minimum elong	1699 Oct 02 08:08	9°♂01'51	2°04'42	min. Earth dist.	1700 Sep 13 08:31	25°♂20'06	0.64259 AU
morning rise	1699 Oct 08 08:02	3°♂31'23		inferior conj	1700 Sep 15 18:00	22°♂47'50	-3°02'52
asc. node	1699 Oct 08 12:10	3°♂26'13		minimum elong	1700 Sep 15 22:41	22°♂35'23	3°01'19
direct	1699 Oct 11 04:00	2°♂47'09		morning rise	1700 Sep 22 07:01	17°♂23'09	
morning max el	1699 Oct 17 17:35	6°♂21'32	18°19'27	direct	1700 Sep 24 21:10	16°♂49'03	
	1699 Nov 02 22:37	0°♂		asc. node	1700 Sep 25 09:13	16°♂50'21	
morning set	1699 Nov 05 21:54	4°♂49'43		morning max el	1700 Oct 01 09:27	20°♂15'19	17°56'58
desc. node	1699 Nov 16 00:07	21°♂04'07			1700 Oct 08 17:04	0°♂	
superior conj	1699 Nov 21 01:15	29°♂03'36	-0°33'17	morning set	1700 Oct 18 13:47	16°♂27'20	
minimum elong	1699 Nov 20 20:56	28°♂46'34	0°32'42		1700 Oct 26 14:57	0°♂	
	1699 Nov 21 15:34	0°♂		superior conj	1700 Oct 31 16:13	8°♂16'35	0°14'50
max. Earth dist.	1699 Nov 23 00:20	2°♂08'53	1.45105 AU	minimum elong	1700 Oct 31 17:54	8°♂23'26	0°14'36
evening rise	1699 Dec 07 08:32	24°♂36'35		behind sun begin	1700 Oct 31 13:28	8°♂05'28	
	1699 Dec 10 19:09	0°♂		behind sun end	1700 Oct 31 22:20	8°♂41'23	
greatest brilliancy	1699 Dec 18 10:06	11°♂51'13	-0.8m	desc. node	1700 Nov 02 21:09	11°♂50'02	
evening max el	1699 Dec 30 22:09	28°♂56'03	19°20'38	max. Earth dist.	1700 Nov 05 19:02	16°♂28'55	1.44525 AU
	1700 Jan 01 00:23	0°♂			1700 Nov 14 10:08	0°♂	
asc. node	1700 Jan 04 11:29	2°♂25'33		evening rise	1700 Nov 16 20:43	3°♂46'06	
retrograde	1700 Jan 07 00:56	3°♂01'21			1700 Dec 04 08:13	0°♂	
evening set	1700 Jan 10 11:03	1°♂52'57		evening max el	1700 Dec 14 01:53	12°♂25'25	20°17'47
	1700 Jan 12 15:56	30°♂		retrograde	1700 Dec 21 22:50	17°♂03'15	
inferior conj	1700 Jan 16 00:12	26°♂00'16	3°12'44	asc. node	1700 Dec 22 08:30	17°♂02'20	
minimum elong	1700 Jan 15 21:45	26°♂08'12	3°12'13	evening set	1700 Dec 25 17:18	15°♂40'41	
min. Earth dist.	1700 Jan 17 07:27	24°♂19'27	0.66233 AU	inferior conj	1700 Dec 31 03:15	9°♂34'54	2°40'04
morning rise	1700 Jan 21 08:13	19°♂48'18		minimum elong	1700 Dec 31 00:36	9°♂43'51	2°39'18
direct	1700 Jan 27 15:27	17°♂01'08		min. Earth dist.	1700 Dec 31 21:03	8°♂34'44	0.67125 AU
morning max el	1700 Feb 09 04:57	24°♂27'33	26°06'07	morning rise	1701 Jan 05 07:44	3°♂21'39	
desc. node	1700 Feb 11 23:21	27°♂24'24		direct	1701 Jan 11 01:03	0°♂	
	1700 Feb 14 05:06	0°♂		morning max el	1701 Jan 22 13:37	7°♂41'40	24°45'42
	1700 Mar 07 01:22	0°♂		desc. node	1701 Jan 29 20:24	16°♂03'32	

	1701 Feb 09 00:26	0°♊			1702 Jan 12 15:56	0°♊	
morning set	1701 Feb 27 16:00	0°♊05'04		desc. node	1702 Jan 16 17:25	5°♊23'51	
	1701 Feb 27 14:51	0°♊			1702 Feb 02 06:57	0°♊	
max. Earth dist.	1701 Mar 03 07:45	6°♊40'20	1.37226 AU	morning set	1702 Feb 08 21:24	10°♊47'11	
				max. Earth dist.	1702 Feb 13 02:27	17°♊58'51	1.39343 AU
					1702 Feb 19 19:30	0°♊	
superior conj	1701 Mar 09 21:34	19°♊07'32	-1°32'47				
minimum elong	1701 Mar 10 01:44	19°♊27'54	1°32'15				
	1701 Mar 15 09:12	0°♊		superior conj	1702 Feb 20 17:07	1°♊39'59	-1°52'46
evening rise	1701 Mar 18 09:20	6°♊01'24		minimum elong	1702 Feb 20 20:56	1°♊57'41	1°52'29
asc. node	1701 Mar 20 07:50	9°♊52'01		evening rise	1702 Mar 02 03:02	19°♊36'35	
	1701 Apr 01 05:41	0°♊		asc. node	1702 Mar 07 04:52	29°♊13'32	
evening max el	1701 Apr 04 07:51	3°♊27'34	19°21'09		1702 Mar 07 15:02	0°♊	
retrograde	1701 Apr 13 12:21	7°♊53'55		evening max el	1702 Mar 18 09:24	15°♊47'50	18°36'56
evening set	1701 Apr 15 14:37	7°♊41'04		retrograde	1702 Mar 26 05:03	19°♊37'16	
inferior conj	1701 Apr 24 01:08	3°♊33'09	1°03'57	evening set	1702 Mar 28 12:55	19°♊18'07	
minimum elong	1701 Apr 24 03:41	3°♊28'57	1°03'04	inferior conj	1702 Apr 05 03:58	14°♊52'14	2°28'51
min. Earth dist.	1701 Apr 26 19:26	1°♊44'31	0.56163 AU	minimum elong	1702 Apr 05 08:02	14°♊44'25	2°27'47
desc. node	1701 Apr 27 19:34	1°♊06'56		min. Earth dist.	1702 Apr 08 13:23	12°♊17'02	0.57908 AU
	1701 Apr 29 18:47	30°♊		morning rise	1702 Apr 13 00:06	9°♊32'31	
morning rise	1701 May 02 13:52	28°♊46'05		desc. node	1702 Apr 14 16:36	8°♊51'00	
direct	1701 May 07 06:55	27°♊55'22		direct	1702 Apr 18 18:28	8°♊08'51	
	1701 May 14 16:56	0°♊		morning max el	1702 May 03 03:28	15°♊45'23	26°32'19
morning max el	1701 May 21 10:48	5°♊07'03	25°06'58		1702 May 14 16:42	0°♊	
	1701 Jun 08 07:27	0°♊			1702 May 31 12:03	0°♊	
asc. node	1701 Jun 16 07:04	15°♊37'18		morning set	1702 Jun 01 07:20	1°♊40'51	
morning set	1701 Jun 16 20:39	16°♊48'43		asc. node	1702 Jun 03 04:07	5°♊38'44	
	1701 Jun 22 23:01	0°♊					
				superior conj	1702 Jun 08 07:40	16°♊53'00	0°52'03
superior conj	1701 Jun 23 20:06	1°♊55'10	1°12'09	minimum elong	1702 Jun 08 05:38	16°♊41'49	0°51'39
minimum elong	1701 Jun 23 17:42	1°♊42'04	1°11'46	max. Earth dist.	1702 Jun 08 13:34	17°♊25'27	1.32287 AU
max. Earth dist.	1701 Jun 25 02:25	4°♊40'19	1.32740 AU		1702 Jun 14 08:42	0°♊	
evening rise	1701 Jun 30 23:51	17°♊10'25		evening rise	1702 Jun 15 06:01	1°♊52'15	
	1701 Jul 07 13:04	0°♊			1702 Jun 30 12:23	0°♊	
desc. node	1701 Jul 24 18:52	27°♊15'33		desc. node	1702 Jul 11 15:53	15°♊08'24	
	1701 Jul 26 23:08	0°♊		evening max el	1702 Jul 15 12:55	19°♊10'54	26°48'51
evening max el	1701 Aug 02 09:07	6°♊59'16	27°21'48	retrograde	1702 Jul 29 11:49	26°♊24'53	
retrograde	1701 Aug 16 03:53	14°♊16'08		evening set	1702 Aug 05 08:46	24°♊22'01	
evening set	1701 Aug 23 08:47	11°♊46'37		min. Earth dist.	1702 Aug 09 02:53	21°♊43'48	0.60525 AU
min. Earth dist.	1701 Aug 26 22:48	8°♊52'04	0.62518 AU	inferior conj	1702 Aug 12 09:03	19°♊01'28	-4°35'48
inferior conj	1701 Aug 29 20:31	6°♊07'08	-3°54'50	minimum elong	1702 Aug 12 13:19	18°♊52'34	4°35'09
minimum elong	1701 Aug 30 01:48	5°♊54'37	3°53'31	morning rise	1702 Aug 19 19:47	14°♊17'04	
morning rise	1701 Sep 05 20:16	1°♊01'19		direct	1702 Aug 22 06:02	13°♊54'25	
direct	1701 Sep 08 07:07	0°♊34'14		morning max el	1702 Aug 29 13:47	17°♊30'18	18°06'49
asc. node	1701 Sep 12 06:15	1°♊46'53		asc. node	1702 Aug 30 03:18	18°♊04'04	
morning max el	1701 Sep 15 01:13	4°♊00'50	17°52'24		1702 Sep 07 11:59	0°♊	
morning set	1701 Oct 01 03:54	29°♊08'35		morning set	1702 Sep 14 10:17	12°♊36'43	
	1701 Oct 01 15:25	0°♊			1702 Sep 23 20:32	0°♊	
superior conj	1701 Oct 12 09:09	18°♊47'06	0°54'56	superior conj	1702 Sep 24 04:21	0°♊34'58	1°23'02
minimum elong	1701 Oct 12 13:38	19°♊06'08	0°54'21	minimum elong	1702 Sep 24 08:29	0°♊53'27	1°22'37
	1701 Oct 19 03:17	0°♊		max. Earth dist.	1702 Oct 01 19:27	13°♊49'00	1.41553 AU
max. Earth dist.	1701 Oct 19 09:55	0°♊26'59	1.43286 AU	evening rise	1702 Oct 07 04:18	22°♊39'00	
desc. node	1701 Oct 20 18:10	2°♊37'19		desc. node	1702 Oct 07 15:12	23°♊22'49	
evening rise	1701 Oct 27 05:40	12°♊52'26			1702 Oct 11 19:39	0°♊	
	1701 Nov 07 12:39	0°♊			1702 Nov 01 15:05	0°♊	
evening max el	1701 Nov 26 23:54	25°♊55'13	21°27'15	evening max el	1702 Nov 09 16:50	9°♊27'31	22°44'48
	1701 Dec 01 23:08	0°♊		retrograde	1702 Nov 19 15:24	15°♊21'43	
retrograde	1701 Dec 05 20:11	1°♊10'53		evening set	1702 Nov 24 08:14	13°♊26'50	
asc. node	1701 Dec 09 05:32	0°♊07'15		asc. node	1702 Nov 26 02:32	11°♊43'48	
	1701 Dec 09 09:58	30°♊		inferior conj	1702 Nov 29 16:51	7°♊05'22	1°12'35
evening set	1701 Dec 10 00:55	29°♊32'43		minimum elong	1702 Nov 29 15:15	7°♊10'54	1°11'56
inferior conj	1701 Dec 15 09:26	23°♊17'13	1°59'27	min. Earth dist.	1702 Nov 29 11:52	7°♊22'36	0.67811 AU
minimum elong	1701 Dec 15 07:06	23°♊25'18	1°58'38	morning rise	1702 Dec 04 22:09	0°♊55'13	
min. Earth dist.	1701 Dec 15 15:20	22°♊56'51	0.67642 AU		1702 Dec 06 05:37	30°♊	
morning rise	1701 Dec 20 13:07	17°♊04'29		direct	1702 Dec 09 09:41	29°♊05'59	
direct	1701 Dec 25 15:24	14°♊52'35			1702 Dec 12 19:40	0°♊	
morning max el	1702 Jan 04 22:38	21°♊00'14	23°17'30	morning max el	1702 Dec 18 11:21	4°♊25'40	21°51'05

desc. node	1703 Jan 03 14:27	25° ♁ 14'09		morning max el	1703 Dec 01 06:56	18° ♁ 01'14	20°33'35
	1703 Jan 06 20:34	0° ♁			1703 Dec 10 21:58	0° ♁	
morning set	1703 Jan 19 21:40	20° ♁ 05'18		desc. node	1703 Dec 21 11:29	15° ♁ 25'42	
	1703 Jan 25 23:27	0° ♁		morning set	1703 Dec 29 22:22	28° ♁ 21'09	
max. Earth dist.	1703 Jan 26 00:43	0° ♁ 05'18	1.41456 AU		1703 Dec 30 23:48	0° ♁	
				max. Earth dist.	1704 Jan 08 07:03	13° ♁ 09'32	1.43262 AU
superior conj	1703 Feb 02 17:26	13° ♁ 15'28	-2°03'44				
minimum elong	1703 Feb 02 18:47	13° ♁ 21'22	2°03'43	superior conj	1704 Jan 14 17:25	23° ♁ 42'32	-2°00'52
	1703 Feb 11 23:39	0° ♁		minimum elong	1704 Jan 14 13:53	23° ♁ 27'50	2°00'44
evening rise	1703 Feb 13 09:03	2° ♁ 34'11			1704 Jan 18 11:02	0° ♁	
asc. node	1703 Feb 22 01:52	18° ♁ 08'46		evening rise	1704 Jan 26 23:18	14° ♁ 46'13	
evening max el	1703 Mar 01 17:43	28° ♁ 36'28	18°12'41		1704 Feb 04 18:18	0° ♁	
	1703 Mar 03 07:48	0° ♁		asc. node	1704 Feb 08 22:53	6° ♁ 29'51	
retrograde	1703 Mar 08 16:03	2° ♁ 05'19		evening max el	1704 Feb 13 05:36	11° ♁ 44'53	18°08'00
evening set	1703 Mar 11 05:47	1° ♁ 37'21		retrograde	1704 Feb 19 17:53	15° ♁ 08'40	
	1703 Mar 14 06:51	30° ♁		evening set	1704 Feb 22 12:46	14° ♁ 30'37	
inferior conj	1703 Mar 18 03:41	26° ♁ 50'33	3°19'49	inferior conj	1704 Feb 28 21:16	9° ♁ 22'56	3°42'01
minimum elong	1703 Mar 18 06:35	26° ♁ 44'03	3°19'23	minimum elong	1704 Feb 28 22:08	9° ♁ 20'42	3°41'58
min. Earth dist.	1703 Mar 21 12:25	23° ♁ 51'19	0.60009 AU	min. Earth dist.	1704 Mar 02 19:17	6° ♁ 24'44	0.62121 AU
morning rise	1703 Mar 25 05:11	21° ♁ 07'27		morning rise	1704 Mar 06 06:15	3° ♁ 25'22	
direct	1703 Mar 31 18:36	19° ♁ 06'46		direct	1704 Mar 13 04:27	0° ♁ 54'23	
desc. node	1703 Apr 01 13:38	19° ♁ 08'29		desc. node	1704 Mar 18 10:41	2° ♁ 11'15	
morning max el	1703 Apr 15 01:42	26° ♁ 56'04	27°29'00	morning max el	1704 Mar 27 06:05	8° ♁ 48'55	27°49'27
	1703 Apr 17 23:38	0° ♁			1704 Apr 12 14:16	0° ♁	
	1703 May 08 05:41	0° ♁			1704 Apr 29 08:52	0° ♁	
morning set	1703 May 16 15:08	16° ♁ 22'18		morning set	1704 Apr 29 18:05	0° ♁ 46'45	
asc. node	1703 May 21 01:09	25° ♁ 46'26		max. Earth dist.	1704 May 05 11:10	12° ♁ 46'48	1.32542 AU
	1703 May 22 23:36	0° ♁		asc. node	1704 May 06 22:11	15° ♁ 56'19	
max. Earth dist.	1703 May 23 01:45	0° ♁ 11'50	1.32218 AU				
				superior conj	1704 May 07 05:07	16° ♁ 34'00	0°03'04
superior conj	1703 May 23 19:14	1° ♁ 47'48	0°28'47	minimum elong	1704 May 07 04:58	16° ♁ 33'12	0°03'02
minimum elong	1703 May 23 17:59	1° ♁ 40'54	0°28'30	behind sun begin	1704 May 06 23:54	16° ♁ 05'38	
evening rise	1703 May 30 15:55	16° ♁ 42'58		behind sun end	1704 May 07 10:03	17° ♁ 00'47	
	1703 Jun 06 06:18	0° ♁			1704 May 13 09:37	0° ♁	
	1703 Jun 26 18:55	0° ♁		evening rise	1704 May 14 03:37	1° ♁ 35'52	
evening max el	1703 Jun 27 09:51	0° ♁ 36'16	25°44'27		1704 May 29 17:21	0° ♁	
desc. node	1703 Jun 28 12:54	1° ♁ 38'43		evening max el	1704 Jun 08 00:50	11° ♁ 21'45	24°17'00
retrograde	1703 Jul 11 10:21	7° ♁ 45'42		desc. node	1704 Jun 14 09:55	16° ♁ 14'20	
evening set	1703 Jul 17 10:36	6° ♁ 19'59		retrograde	1704 Jun 21 21:17	18° ♁ 20'52	
min. Earth dist.	1703 Jul 21 22:11	3° ♁ 40'45	0.58469 AU	evening set	1704 Jun 26 13:08	17° ♁ 32'31	
inferior conj	1703 Jul 25 04:00	1° ♁ 20'39	-4°56'00	min. Earth dist.	1704 Jul 02 11:45	14° ♁ 35'27	0.56630 AU
minimum elong	1703 Jul 25 04:51	1° ♁ 19'07	4°55'59	inferior conj	1704 Jul 05 02:52	12° ♁ 56'23	-4°42'02
	1703 Jul 27 01:34	30° ♁		minimum elong	1704 Jul 04 22:28	13° ♁ 03'20	4°41'31
morning rise	1703 Aug 02 01:26	26° ♁ 58'47		morning rise	1704 Jul 13 10:29	8° ♁ 54'34	
direct	1703 Aug 04 13:39	26° ♁ 38'34		direct	1704 Jul 16 02:30	8° ♁ 35'33	
	1703 Aug 12 05:02	0° ♁		morning max el	1704 Jul 25 16:47	13° ♁ 02'55	19°37'35
morning max el	1703 Aug 12 19:56	0° ♁ 34'00	18°41'32	asc. node	1704 Aug 02 21:25	23° ♁ 39'08	
asc. node	1703 Aug 17 00:21	5° ♁ 26'11			1704 Aug 06 13:08	0° ♁	
morning set	1703 Aug 29 04:07	26° ♁ 38'14		morning set	1704 Aug 12 05:57	11° ♁ 03'49	
	1703 Aug 30 21:31	0° ♁					
				superior conj	1704 Aug 20 04:59	27° ♁ 03'47	1°45'42
superior conj	1703 Sep 06 20:46	13° ♁ 25'32	1°39'23	minimum elong	1704 Aug 20 05:27	27° ♁ 06'07	1°45'43
minimum elong	1703 Sep 06 23:09	13° ♁ 36'45	1°39'14		1704 Aug 21 16:54	0° ♁	
max. Earth dist.	1703 Sep 14 00:29	26° ♁ 28'41	1.39551 AU	max. Earth dist.	1704 Aug 26 04:39	8° ♁ 33'35	1.37527 AU
	1703 Sep 16 00:57	0° ♁		evening rise	1704 Aug 29 23:19	15° ♁ 26'43	
evening rise	1703 Sep 18 01:59	3° ♁ 29'34			1704 Sep 07 12:56	0° ♁	
desc. node	1703 Sep 24 12:13	14° ♁ 02'18		desc. node	1704 Sep 10 09:13	4° ♁ 31'32	
	1703 Oct 05 00:51	0° ♁			1704 Sep 28 15:38	0° ♁	
evening max el	1703 Oct 23 06:17	23° ♁ 03'09	24°04'49	evening max el	1704 Oct 04 18:17	6° ♁ 41'57	25°20'21
retrograde	1703 Nov 03 07:05	29° ♁ 31'49		retrograde	1704 Oct 16 18:27	13° ♁ 37'08	
evening set	1703 Nov 08 13:37	27° ♁ 19'47		evening set	1704 Oct 22 15:25	11° ♁ 09'19	
asc. node	1703 Nov 12 23:34	22° ♁ 17'48		min. Earth dist.	1704 Oct 27 01:56	6° ♁ 13'12	0.67144 AU
inferior conj	1703 Nov 13 23:42	20° ♁ 56'24	0°20'44	inferior conj	1704 Oct 28 04:14	4° ♁ 48'01	-0°34'48
minimum elong	1703 Nov 13 23:12	20° ♁ 58'05	0°20'31	minimum elong	1704 Oct 28 05:07	4° ♁ 45'09	0°34'25
min. Earth dist.	1703 Nov 13 08:12	21° ♁ 48'46	0.67643 AU	asc. node	1704 Oct 29 20:38	2° ♁ 40'03	
morning rise	1703 Nov 19 08:45	14° ♁ 51'15			1704 Nov 01 07:47	30° ♁	
direct	1703 Nov 23 06:43	13° ♁ 24'04		morning rise	1704 Nov 02 19:01	28° ♁ 50'29	

direct	1704 Nov 06 05:08	27° Ω 42'55		morning max el	1705 Oct 27 20:44	15° Ω 41'50	18°40'12
	1704 Nov 11 11:11	0° \mathbb{M}			1705 Nov 07 11:07	0° \mathbb{M}	
morning max el	1704 Nov 13 10:28	1° \mathbb{M} 47'37	19°29'11	morning set	1705 Nov 17 15:52	16° \mathbb{M} 05'12	
greatest brilliancy	1704 Nov 26 22:19	19° \mathbb{M} 53'48	-0.7m	desc. node	1705 Nov 24 05:31	26° \mathbb{M} 29'32	
	1704 Dec 03 13:15	0° \mathbb{X}			1705 Nov 26 10:55	0° \mathbb{X}	
desc. node	1704 Dec 07 08:30	5° \mathbb{X} 52'15					
morning set	1704 Dec 07 20:42	6° \mathbb{X} 39'28		superior conj	1705 Dec 03 18:22	11° \mathbb{X} 29'24	-1°00'48
max. Earth dist.	1704 Dec 20 20:40	26° \mathbb{X} 58'54	1.44525 AU	minimum elong	1705 Dec 03 10:54	11° \mathbb{X} 00'03	0°59'54
	1704 Dec 22 18:19	0° \mathbb{Z}		max. Earth dist.	1705 Dec 03 14:25	11° \mathbb{X} 13'54	1.45102 AU
					1705 Dec 15 11:52	0° \mathbb{Z}	
superior conj	1704 Dec 24 15:00	2° \mathbb{Z} 58'15	-1°39'47	evening rise	1705 Dec 19 12:28	6° \mathbb{Z} 24'58	
minimum elong	1704 Dec 24 06:47	2° \mathbb{Z} 25'23	1°39'05	greatest brilliancy	1705 Dec 27 09:29	19° \mathbb{Z} 00'09	-0.8m
evening rise	1705 Jan 07 17:28	26° \mathbb{Z} 04'21			1706 Jan 03 12:55	0° \approx	
	1705 Jan 10 01:44	0° \approx		evening max el	1706 Jan 10 04:42	8° \approx 31'06	18°54'29
asc. node	1705 Jan 25 19:56	24° \approx 05'44		asc. node	1706 Jan 12 16:59	10° \approx 43'54	
evening max el	1705 Jan 26 18:05	25° \approx 04'44	18°22'15	retrograde	1706 Jan 17 00:10	12° \approx 21'47	
retrograde	1705 Feb 02 05:56	28° \approx 36'31		evening set	1706 Jan 20 06:05	11° \approx 21'01	
evening set	1705 Feb 05 05:55	27° \approx 47'36		inferior conj	1706 Jan 25 22:01	5° \approx 37'02	3°27'08
inferior conj	1705 Feb 11 04:37	22° \approx 20'40	3°42'32	minimum elong	1706 Jan 25 19:56	5° \approx 43'30	3°26'49
minimum elong	1705 Feb 11 03:43	22° \approx 23'16	3°42'28	min. Earth dist.	1706 Jan 27 13:44	3° \approx 33'35	0.65533 AU
min. Earth dist.	1705 Feb 13 11:44	19° \approx 43'32	0.64005 AU		1706 Jan 30 18:44	30° \mathbb{R} \mathbb{Z}	
morning rise	1705 Feb 17 00:51	16° \approx 14'34		morning rise	1706 Jan 31 09:26	29° \mathbb{Z} 26'18	
direct	1705 Feb 23 22:21	13° \approx 26'16		direct	1706 Feb 06 23:15	26° \mathbb{Z} 34'52	
desc. node	1705 Mar 05 07:44	17° \approx 28'47			1706 Feb 15 05:09	0° \approx	
morning max el	1705 Mar 09 14:42	21° \approx 19'15	27°33'06	morning max el	1706 Feb 20 00:38	4° \approx 15'43	26°44'55
	1705 Mar 17 04:09	0° \mathbb{X}		desc. node	1706 Feb 20 04:46	4° \approx 26'07	
	1705 Apr 05 16:59	0° \mathbb{Y}			1706 Mar 11 14:55	0° \mathbb{X}	
morning set	1705 Apr 13 13:35	14° \mathbb{Y} 45'07		morning set	1706 Mar 27 22:21	28° \mathbb{X} 07'42	
max. Earth dist.	1705 Apr 18 13:44	24° \mathbb{Y} 56'24	1.33282 AU		1706 Mar 28 21:48	0° \mathbb{Y}	
	1705 Apr 20 23:18	0° \mathbb{B}		max. Earth dist.	1706 Apr 01 05:43	6° \mathbb{Y} 32'04	1.34471 AU
superior conj	1705 Apr 21 11:25	1° \mathbb{B} 04'34	-0°24'17	superior conj	1706 Apr 05 12:04	15° \mathbb{Y} 13'36	-0°52'06
minimum elong	1705 Apr 21 12:38	1° \mathbb{B} 10'58	0°24'02	minimum elong	1706 Apr 05 14:40	15° \mathbb{Y} 27'09	0°51'35
asc. node	1705 Apr 23 19:14	6° \mathbb{B} 03'37		asc. node	1706 Apr 10 16:17	26° \mathbb{Y} 04'33	
evening rise	1705 Apr 28 15:11	16° \mathbb{B} 23'22			1706 Apr 12 13:15	0° \mathbb{B}	
	1705 May 05 10:26	0° \mathbb{H}		evening rise	1706 Apr 13 00:45	0° \mathbb{B} 59'45	
evening max el	1705 May 20 15:19	21° \mathbb{H} 50'41	22°40'53		1706 Apr 30 02:22	0° \mathbb{H}	
desc. node	1705 Jun 01 06:57	28° \mathbb{H} 18'29		evening max el	1706 May 02 13:04	2° \mathbb{H} 36'06	21°10'41
retrograde	1705 Jun 02 19:59	28° \mathbb{H} 23'55		retrograde	1706 May 14 09:57	8° \mathbb{H} 23'21	
evening set	1705 Jun 06 00:54	28° \mathbb{H} 01'20		evening set	1706 May 16 16:09	8° \mathbb{H} 11'30	
min. Earth dist.	1705 Jun 13 23:22	24° \mathbb{H} 33'02	0.55345 AU	desc. node	1706 May 19 04:00	7° \mathbb{H} 32'55	
inferior conj	1705 Jun 15 06:59	23° \mathbb{H} 47'52	-3°41'51	inferior conj	1706 May 26 01:07	4° \mathbb{H} 12'37	-1°58'31
minimum elong	1705 Jun 14 23:12	23° \mathbb{H} 59'00	3°39'52	minimum elong	1706 May 25 19:37	4° \mathbb{H} 20'22	1°56'36
morning rise	1705 Jun 23 23:48	19° \mathbb{H} 55'52		min. Earth dist.	1706 May 26 11:47	3° \mathbb{H} 57'35	0.54915 AU
direct	1705 Jun 26 21:01	19° \mathbb{H} 36'40		morning rise	1706 Jun 03 23:16	0° \mathbb{H} 11'48	
morning max el	1705 Jul 08 02:26	24° \mathbb{H} 49'11	20°54'31		1706 Jun 04 22:40	30° \mathbb{R} \mathbb{B}	
	1705 Jul 12 18:36	0° \mathbb{E}		direct	1706 Jun 07 06:44	29° \mathbb{B} 48'03	
asc. node	1705 Jul 20 18:29	12° \mathbb{E} 30'14			1706 Jun 09 13:57	0° \mathbb{H}	
morning set	1705 Jul 27 13:03	25° \mathbb{E} 45'24		morning max el	1706 Jun 20 01:22	5° \mathbb{H} 53'04	22°28'19
	1705 Jul 29 14:13	0° \mathbb{Q}			1706 Jul 06 16:45	0° \mathbb{E}	
				asc. node	1706 Jul 07 15:32	1° \mathbb{E} 50'07	
superior conj	1705 Aug 04 00:21	11° \mathbb{Q} 15'50	1°43'55	morning set	1706 Jul 11 23:22	10° \mathbb{E} 37'03	
minimum elong	1705 Aug 03 23:19	11° \mathbb{Q} 10'29	1°43'54				
max. Earth dist.	1705 Aug 08 13:13	20° \mathbb{Q} 23'53	1.35704 AU	superior conj	1706 Jul 19 03:23	25° \mathbb{E} 50'54	1°35'37
evening rise	1705 Aug 12 16:28	28° \mathbb{Q} 20'49		minimum elong	1706 Jul 19 01:23	25° \mathbb{E} 40'18	1°35'26
	1705 Aug 13 13:46	0° \mathbb{P}			1706 Jul 21 02:43	0° \mathbb{Q}	
desc. node	1705 Aug 28 06:15	24° \mathbb{P} 44'56		max. Earth dist.	1706 Jul 22 06:20	2° \mathbb{Q} 23'25	1.34236 AU
	1705 Aug 31 19:07	0° \mathbb{A}		evening rise	1706 Jul 27 00:47	11° \mathbb{Q} 59'30	
evening max el	1705 Sep 17 06:14	20° \mathbb{A} 20'22	26°24'02		1706 Aug 05 21:34	0° \mathbb{P}	
retrograde	1705 Sep 30 01:00	27° \mathbb{A} 32'13		desc. node	1706 Aug 15 03:18	14° \mathbb{P} 34'55	
evening set	1705 Oct 06 11:43	24° \mathbb{A} 52'35			1706 Aug 27 01:14	0° \mathbb{A}	
min. Earth dist.	1705 Oct 10 14:47	20° \mathbb{A} 32'47	0.66297 AU	evening max el	1706 Aug 30 18:20	3° \mathbb{A} 50'21	27°08'13
inferior conj	1705 Oct 12 04:36	18° \mathbb{A} 37'40	-1°32'30	retrograde	1706 Sep 13 02:08	11° \mathbb{A} 08'52	
minimum elong	1705 Oct 12 07:03	18° \mathbb{A} 30'13	1°31'30	evening set	1706 Sep 20 00:06	8° \mathbb{A} 24'46	
asc. node	1705 Oct 16 17:41	13° \mathbb{A} 47'18		min. Earth dist.	1706 Sep 23 20:27	4° \mathbb{A} 41'11	0.65096 AU
morning rise	1705 Oct 18 02:52	12° \mathbb{A} 50'26		inferior conj	1706 Sep 25 22:36	2° \mathbb{A} 20'30	-2°30'29
direct	1705 Oct 21 03:14	11° \mathbb{A} 58'55		minimum elong	1706 Sep 26 02:34	2° \mathbb{A} 09'21	2°29'01

	1706 Sep 28 02:28	30° \mathbb{R} \mathbb{M}		retrograde	1707 Aug 26 21:07	24° \mathbb{M} 18'46	
morning rise	1706 Oct 02 05:52	26° \mathbb{M} 46'35		evening set	1707 Sep 03 01:31	21° \mathbb{M} 40'36	
asc. node	1706 Oct 03 14:45	26° \mathbb{M} 16'56		min. Earth dist.	1707 Sep 06 16:54	18° \mathbb{M} 30'07	0.63550 AU
direct	1706 Oct 04 22:56	26° \mathbb{M} 07'15		inferior conj	1707 Sep 09 07:40	15° \mathbb{M} 51'09	-3°25'51
morning max el	1706 Oct 11 11:19	29° \mathbb{M} 37'30	18°07'45	minimum elong	1707 Sep 09 12:44	15° \mathbb{M} 38'17	3°24'19
	1706 Oct 11 20:07	0° \mathbb{L}		morning rise	1707 Sep 16 01:08	10° \mathbb{M} 33'47	
morning set	1706 Oct 29 16:10	26° \mathbb{L} 57'38		direct	1707 Sep 18 13:30	10° \mathbb{M} 03'03	
	1706 Oct 31 12:17	0° \mathbb{M}		asc. node	1707 Sep 20 11:46	10° \mathbb{M} 21'26	
desc. node	1706 Nov 11 02:33	17° \mathbb{M} 13'21		morning max el	1707 Sep 25 03:27	13° \mathbb{M} 28'46	17°52'45
					1707 Oct 06 12:16	0° \mathbb{L}	
superior conj	1706 Nov 12 23:13	20° \mathbb{M} 11'20	-0°12'27	morning set	1707 Oct 11 18:22	9° \mathbb{L} 05'15	
minimum elong	1706 Nov 12 21:38	20° \mathbb{M} 05'05	0°12'13				
behind sun begin	1706 Nov 12 14:27	19° \mathbb{M} 36'28		superior conj	1707 Oct 24 00:32	29° \mathbb{L} 55'41	0°33'11
behind sun end	1706 Nov 13 04:50	20° \mathbb{M} 33'41		minimum elong	1707 Oct 24 03:53	0° \mathbb{M} 09'30	0°32'43
max. Earth dist.	1706 Nov 16 09:11	25° \mathbb{M} 35'39	1.44943 AU		1707 Oct 24 01:35	0° \mathbb{M}	
	1706 Nov 19 04:28	0° \mathbb{X}		desc. node	1707 Oct 28 23:37	8° \mathbb{M} 00'36	
evening rise	1706 Nov 29 09:27	15° \mathbb{X} 53'41		max. Earth dist.	1707 Oct 30 02:31	9° \mathbb{M} 48'33	1.44076 AU
	1706 Dec 08 12:57	0° \mathbb{Z}		evening rise	1707 Nov 08 18:10	24° \mathbb{M} 57'05	
greatest brilliancy	1706 Dec 12 09:40	5° \mathbb{Z} 51'15	-0.7m		1707 Nov 12 01:12	0° \mathbb{X}	
evening max el	1706 Dec 24 11:24	22° \mathbb{Z} 00'07	19°43'12		1707 Dec 02 19:14	0° \mathbb{Z}	
asc. node	1706 Dec 30 14:02	26° \mathbb{Z} 09'08		evening max el	1707 Dec 07 12:52	5° \mathbb{Z} 30'31	20°46'01
retrograde	1706 Dec 31 21:20	26° \mathbb{Z} 18'33		retrograde	1707 Dec 15 19:06	10° \mathbb{Z} 23'29	
evening set	1707 Jan 04 10:42	25° \mathbb{Z} 04'31		asc. node	1707 Dec 17 11:03	10° \mathbb{Z} 07'58	
inferior conj	1707 Jan 09 22:16	19° \mathbb{Z} 06'04	2°59'55	evening set	1707 Dec 19 17:44	8° \mathbb{Z} 54'32	
minimum elong	1707 Jan 09 19:40	19° \mathbb{Z} 14'40	2°59'18	inferior conj	1707 Dec 25 02:54	2° \mathbb{Z} 44'27	2°23'40
min. Earth dist.	1707 Jan 10 23:42	17° \mathbb{Z} 42'08	0.66665 AU	minimum elong	1707 Dec 25 00:20	2° \mathbb{Z} 53'15	2°22'51
morning rise	1707 Jan 15 04:24	12° \mathbb{Z} 53'10		min. Earth dist.	1707 Dec 25 15:31	2° \mathbb{Z} 01'17	0.67401 AU
direct	1707 Jan 21 06:02	10° \mathbb{Z} 11'00			1707 Dec 27 03:49	30° \mathbb{R} \mathbb{X}	
morning max el	1707 Feb 02 09:39	17° \mathbb{Z} 25'04	25°33'19	morning rise	1707 Dec 30 06:45	26° \mathbb{X} 31'19	
desc. node	1707 Feb 07 01:47	22° \mathbb{Z} 34'07		direct	1708 Jan 04 17:51	24° \mathbb{X} 06'56	
	1707 Feb 12 22:38	0° \mathbb{A}			1708 Jan 15 01:34	0° \mathbb{Z}	
	1707 Mar 04 14:21	0° \mathbb{H}		morning max el	1708 Jan 15 17:57	0° \mathbb{Z} 40'38	24°08'22
morning set	1707 Mar 10 15:51	10° \mathbb{H} 40'46		desc. node	1708 Jan 24 22:49	11° \mathbb{Z} 32'35	
max. Earth dist.	1707 Mar 14 09:47	17° \mathbb{H} 38'25	1.36110 AU		1708 Feb 06 21:24	0° \mathbb{A}	
				morning set	1708 Feb 20 12:14	22° \mathbb{A} 08'04	
superior conj	1707 Mar 20 04:19	28° \mathbb{H} 53'10	-1°18'47	max. Earth dist.	1708 Feb 24 05:57	28° \mathbb{A} 43'04	1.38116 AU
minimum elong	1707 Mar 20 08:07	29° \mathbb{H} 12'08	1°18'12		1708 Feb 24 23:04	0° \mathbb{H}	
	1707 Mar 20 17:40	0° \mathbb{Y}					
evening rise	1707 Mar 28 06:12	15° \mathbb{Y} 18'16		superior conj	1708 Mar 02 08:43	11° \mathbb{H} 53'54	-1°42'06
asc. node	1707 Mar 28 13:21	15° \mathbb{Y} 54'34		minimum elong	1708 Mar 02 12:56	12° \mathbb{H} 14'03	1°41'39
	1707 Apr 04 21:27	0° \mathbb{B}		evening rise	1708 Mar 11 05:03	29° \mathbb{H} 11'54	
evening max el	1707 Apr 14 22:16	13° \mathbb{B} 57'56	19°55'43		1708 Mar 11 14:50	0° \mathbb{Y}	
retrograde	1707 Apr 25 01:33	18° \mathbb{B} 51'24		asc. node	1708 Mar 14 10:23	5° \mathbb{Y} 28'22	
evening set	1707 Apr 27 02:20	18° \mathbb{B} 40'29		evening max el	1708 Mar 27 18:33	25° \mathbb{Y} 58'38	18°59'50
inferior conj	1707 May 05 23:29	14° \mathbb{B} 40'17	0°01'06		1708 Apr 03 20:42	0° \mathbb{B}	
minimum elong	1707 May 05 23:32	14° \mathbb{B} 40'12	0°01'05	retrograde	1708 Apr 05 07:25	0° \mathbb{B} 06'57	
transit middle	1707 May 05 23:32	14° \mathbb{B} 40'12	0°01'05		1708 Apr 06 18:45	30° \mathbb{R} \mathbb{Y}	
transit begin	1707 May 05 19:34	14° \mathbb{B} 46'15		evening set	1708 Apr 07 12:05	29° \mathbb{Y} 51'40	
transit end	1707 May 06 03:30	14° \mathbb{B} 34'09		inferior conj	1708 Apr 15 14:13	25° \mathbb{Y} 36'41	1°44'11
desc. node	1707 May 06 01:00	14° \mathbb{B} 37'58		minimum elong	1708 Apr 15 17:51	25° \mathbb{Y} 30'18	1°43'03
min. Earth dist.	1707 May 08 01:33	13° \mathbb{B} 24'14	0.55454 AU	min. Earth dist.	1708 Apr 18 17:09	23° \mathbb{Y} 26'12	0.56842 AU
morning rise	1707 May 14 18:33	10° \mathbb{B} 12'55		desc. node	1708 Apr 21 22:01	21° \mathbb{Y} 29'34	
direct	1707 May 18 21:35	9° \mathbb{B} 35'25		morning rise	1708 Apr 23 20:34	20° \mathbb{Y} 35'23	
morning max el	1707 Jun 01 17:08	16° \mathbb{B} 26'51	24°10'09	direct	1708 Apr 29 00:58	19° \mathbb{Y} 31'47	
	1707 Jun 12 14:33	0° \mathbb{I}		morning max el	1708 May 13 07:45	26° \mathbb{Y} 55'02	25°46'06
asc. node	1707 Jun 24 12:35	21° \mathbb{I} 31'25			1708 May 16 06:53	0° \mathbb{B}	
morning set	1707 Jun 26 11:07	25° \mathbb{I} 33'42			1708 Jun 04 18:37	0° \mathbb{I}	
	1707 Jun 28 13:06	0° \mathbb{D}		morning set	1708 Jun 09 22:40	10° \mathbb{I} 29'09	
				asc. node	1708 Jun 10 09:37	11° \mathbb{I} 27'06	
superior conj	1707 Jul 03 11:23	10° \mathbb{D} 40'46	1°22'01				
minimum elong	1707 Jul 03 08:58	10° \mathbb{D} 27'46	1°21'41	superior conj	1708 Jun 16 22:09	25° \mathbb{I} 37'19	1°04'03
max. Earth dist.	1707 Jul 05 08:43	14° \mathbb{D} 45'04	1.33170 AU	minimum elong	1708 Jun 16 19:51	25° \mathbb{I} 24'43	1°03'39
evening rise	1707 Jul 10 20:08	26° \mathbb{D} 11'11		max. Earth dist.	1708 Jun 17 17:49	27° \mathbb{I} 25'06	1.32502 AU
	1707 Jul 12 17:59	0° \mathbb{O}			1708 Jun 18 22:12	0° \mathbb{D}	
	1707 Jul 30 06:41	0° \mathbb{M}		evening rise	1708 Jun 23 23:07	10° \mathbb{D} 44'30	
desc. node	1707 Aug 02 00:20	3° \mathbb{M} 51'39			1708 Jul 04 00:02	0° \mathbb{O}	
evening max el	1707 Aug 13 05:20	17° \mathbb{M} 00'54	27°25'55	desc. node	1708 Jul 18 21:21	22° \mathbb{O} 20'22	


































































































































evening max el	1708 Jul 25 12:32	29° Ω 37'11	27°11'57	evening max el	1709 Jul 07 13:22	11° Ω 28'32	26°24'50
	1708 Jul 25 22:16	0° \mathbb{M}		retrograde	1709 Jul 21 12:57	18° Ω 40'45	
retrograde	1708 Aug 08 09:00	6° \mathbb{M} 51'58		evening set	1709 Jul 28 03:01	16° Ω 52'31	
evening set	1708 Aug 15 12:02	4° \mathbb{M} 32'25		min. Earth dist.	1709 Aug 01 02:26	14° Ω 16'28	0.59648 AU
min. Earth dist.	1708 Aug 19 02:44	1° \mathbb{M} 46'39	0.61696 AU	inferior conj	1709 Aug 04 10:03	11° Ω 41'01	-4°47'37
	1708 Aug 21 02:38	30° \mathbb{R} Ω		minimum elong	1709 Aug 04 13:11	11° Ω 34'51	4°47'18
inferior conj	1708 Aug 22 04:39	29° Ω 01'00	-4°14'03	morning rise	1709 Aug 12 01:25	7° Ω 06'29	
minimum elong	1708 Aug 22 09:45	28° Ω 49'32	4°12'58	direct	1709 Aug 14 12:22	6° Ω 44'59	
morning rise	1708 Aug 29 09:02	24° Ω 03'45		morning max el	1709 Aug 22 04:21	10° Ω 27'20	18°19'06
direct	1708 Aug 31 19:26	23° Ω 38'42		asc. node	1709 Aug 24 05:51	12° Ω 40'12	
asc. node	1708 Sep 06 08:48	25° Ω 53'46			1709 Sep 04 01:15	0° \mathbb{M}	
morning max el	1708 Sep 07 18:08	27° Ω 07'55	17°56'08	morning set	1709 Sep 07 03:43	5° \mathbb{M} 51'39	
	1708 Sep 10 07:18	0° \mathbb{M}					
morning set	1708 Sep 23 16:02	22° \mathbb{M} 08'24		superior conj	1709 Sep 16 09:52	23° \mathbb{M} 16'17	1°31'19
	1708 Sep 27 23:54	0° Ω		minimum elong	1709 Sep 16 13:20	23° \mathbb{M} 32'09	1°31'01
					1709 Sep 20 03:33	0° Ω	
superior conj	1708 Oct 04 04:59	10° Ω 59'54	1°08'23	max. Earth dist.	1709 Sep 23 23:10	6° Ω 38'59	1.40715 AU
minimum elong	1708 Oct 04 09:36	11° Ω 19'56	1°07'49	evening rise	1709 Sep 28 14:51	14° Ω 27'22	
max. Earth dist.	1708 Oct 11 15:42	23° Ω 34'34	1.42603 AU	desc. node	1709 Oct 01 17:40	19° Ω 30'50	
desc. node	1708 Oct 14 20:39	28° Ω 47'36			1709 Oct 08 11:04	0° \mathbb{M}	
	1708 Oct 15 14:41	0° \mathbb{M}			1709 Oct 30 13:22	0° \mathbb{M}	
evening rise	1708 Oct 18 07:08	4° \mathbb{M} 16'05		evening max el	1709 Nov 01 23:41	2° \mathbb{M} 34'30	23°18'56
	1708 Nov 04 10:40	0° \mathbb{M}		retrograde	1709 Nov 12 09:34	8° \mathbb{M} 44'31	
evening max el	1708 Nov 19 08:40	19° \mathbb{M} 01'44	21°59'31	evening set	1709 Nov 17 08:09	6° \mathbb{M} 42'01	
retrograde	1708 Nov 28 15:40	24° \mathbb{M} 33'26		asc. node	1709 Nov 20 05:05	3° \mathbb{M} 39'21	
evening set	1708 Dec 03 01:26	22° \mathbb{M} 48'05		inferior conj	1709 Nov 22 17:12	0° \mathbb{M} 19'03	0°51'08
asc. node	1708 Dec 03 08:03	22° \mathbb{M} 34'19		minimum elong	1709 Nov 22 16:01	0° \mathbb{M} 23'05	0°50'38
inferior conj	1708 Dec 08 09:50	16° \mathbb{M} 29'40	1°40'16	min. Earth dist.	1709 Nov 22 07:38	0° \mathbb{M} 51'53	0.67774 AU
minimum elong	1708 Dec 08 07:46	16° \mathbb{M} 36'51	1°39'30		1709 Nov 22 22:45	30° \mathbb{R} \mathbb{M}	
min. Earth dist.	1708 Dec 08 10:57	16° \mathbb{M} 25'47	0.67760 AU	morning rise	1709 Nov 27 23:51	24° \mathbb{M} 10'53	
morning rise	1708 Dec 13 13:57	10° \mathbb{M} 18'04		direct	1709 Dec 02 05:20	22° \mathbb{M} 31'30	
direct	1708 Dec 18 09:54	8° \mathbb{M} 15'49		morning max el	1709 Dec 10 19:40	27° \mathbb{M} 32'15	21°16'49
morning max el	1708 Dec 28 04:09	14° \mathbb{M} 02'16	22°40'08		1709 Dec 13 02:35	0° \mathbb{M}	
	1709 Jan 10 00:37	0° \mathbb{Z}		desc. node	1709 Dec 28 16:53	21° \mathbb{M} 07'20	
desc. node	1709 Jan 10 19:51	1° \mathbb{Z} 07'15			1710 Jan 03 15:05	0° \mathbb{Z}	
	1709 Jan 29 20:26	0° \approx		morning set	1710 Jan 10 18:16	11° \mathbb{Z} 02'12	
morning set	1709 Jan 31 05:34	2° \approx 15'20		max. Earth dist.	1710 Jan 18 03:45	22° \mathbb{Z} 55'06	1.42273 AU
max. Earth dist.	1709 Feb 05 02:04	10° \approx 22'50	1.40266 AU		1710 Jan 22 09:59	0° \approx	
superior conj	1709 Feb 12 20:51	24° \approx 04'39	-1°58'47	superior conj	1710 Jan 25 11:20	5° \approx 12'01	-2°04'31
minimum elong	1709 Feb 12 23:55	24° \approx 18'36	1°58'38	minimum elong	1710 Jan 25 10:51	5° \approx 09'57	2°04'30
	1709 Feb 16 02:17	0° \mathbb{H}		evening rise	1710 Feb 05 18:13	25° \approx 13'02	
evening rise	1709 Feb 22 18:20	12° \mathbb{H} 33'19			1710 Feb 08 09:41	0° \mathbb{H}	
asc. node	1709 Mar 01 07:24	24° \mathbb{H} 40'17		asc. node	1710 Feb 16 04:26	13° \mathbb{H} 22'27	
	1709 Mar 04 11:11	0° \mathbb{Y}		evening max el	1710 Feb 22 09:33	21° \mathbb{H} 30'35	18°08'16
evening max el	1709 Mar 10 23:23	8° \mathbb{Y} 32'35	18°24'05	retrograde	1710 Mar 01 02:32	24° \mathbb{H} 55'54	
retrograde	1709 Mar 18 08:32	12° \mathbb{Y} 11'30		evening set	1710 Mar 03 18:22	19° \mathbb{H} 23'55	
evening set	1709 Mar 20 18:57	11° \mathbb{Y} 48'48		inferior conj	1710 Mar 10 10:07	19° \mathbb{H} 28'08	3°32'18
inferior conj	1709 Mar 28 02:15	7° \mathbb{Y} 13'44	2°54'26	minimum elong	1710 Mar 10 12:11	19° \mathbb{H} 23'13	3°32'04
minimum elong	1709 Mar 28 06:02	7° \mathbb{Y} 05'56	2°53'37	min. Earth dist.	1710 Mar 13 15:08	16° \mathbb{H} 26'14	0.60921 AU
min. Earth dist.	1709 Mar 31 12:48	4° \mathbb{Y} 25'30	0.58781 AU	morning rise	1710 Mar 17 04:09	13° \mathbb{H} 37'31	
morning rise	1709 Apr 04 14:25	1° \mathbb{Y} 42'50		direct	1710 Mar 23 22:22	11° \mathbb{H} 22'40	
desc. node	1709 Apr 08 19:02	0° \mathbb{Y} 13'39		desc. node	1710 Mar 26 16:04	11° \mathbb{H} 43'25	
direct	1709 Apr 10 17:49	0° \mathbb{Y} 03'38		morning max el	1710 Apr 07 03:58	19° \mathbb{H} 15'44	27°42'14
morning max el	1709 Apr 25 02:43	7° \mathbb{Y} 46'09	27°00'37		1710 Apr 16 06:46	0° \mathbb{Y}	
	1709 May 11 20:23	0° \mathbb{B}			1710 May 04 15:08	0° \mathbb{B}	
morning set	1709 May 25 08:22	25° \mathbb{B} 17'54		morning set	1710 May 09 14:24	9° \mathbb{B} 53'15	
	1709 May 27 13:35	0° \mathbb{I}		asc. node	1710 May 15 03:44	21° \mathbb{B} 41'16	
asc. node	1709 May 28 06:41	1° \mathbb{I} 32'02		max. Earth dist.	1710 May 15 17:30	22° \mathbb{B} 56'15	1.32307 AU
superior conj	1709 Jun 01 09:56	10° \mathbb{I} 34'38	0°42'31	superior conj	1710 May 16 21:00	25° \mathbb{B} 26'31	0°18'06
minimum elong	1709 Jun 01 08:11	10° \mathbb{I} 25'00	0°42'10	minimum elong	1710 May 16 20:11	25° \mathbb{B} 22'01	0°17'56
max. Earth dist.	1709 Jun 01 06:03	10° \mathbb{I} 13'18	1.32215 AU		1710 May 18 22:54	0° \mathbb{I}	
evening rise	1709 Jun 08 07:10	25° \mathbb{I} 31'04		evening rise	1710 May 23 18:04	10° \mathbb{I} 23'18	
	1709 Jun 10 10:58	0° \mathbb{E}			1710 Jun 02 19:24	0° \mathbb{E}	
	1709 Jun 27 19:57	0° Ω		evening max el	1710 Jun 19 07:09	22° \mathbb{E} 34'19	25°09'12
desc. node	1709 Jul 05 18:21	9° Ω 41'18		desc. node	1710 Jun 22 15:21	25° \mathbb{E} 27'07	

retrograde	1710 Jul 03 07:13	29° ♄ 41'33		evening rise	1711 May 08 05:56	25° ♄ 14'41	
evening set	1710 Jul 08 18:43	28° ♄ 32'17			1711 May 10 12:36	0° ♄	
min. Earth dist.	1710 Jul 13 18:52	25° ♄ 47'14	0.57635 AU		1711 May 28 21:21	0° ♄	
inferior conj	1710 Jul 16 20:34	23° ♄ 42'15	-4°55'08	evening max el	1711 May 31 21:09	3° ♄ 09'33	23°36'15
minimum elong	1710 Jul 16 19:17	23° ♄ 44'27	4°55'06	desc. node	1711 Jun 09 12:23	9° ♄ 02'35	
morning rise	1710 Jul 24 22:28	19° ♄ 29'55		retrograde	1711 Jun 14 13:08	10° ♄ 00'04	
direct	1710 Jul 27 11:58	19° ♄ 10'30		evening set	1711 Jun 18 13:10	9° ♄ 24'53	
morning max el	1710 Aug 05 06:58	23° ♄ 17'56	19°02'51	min. Earth dist.	1711 Jun 25 07:35	6° ♄ 15'47	0.55991 AU
	1710 Aug 10 19:56	0° ♄		inferior conj	1711 Jun 27 10:58	4° ♄ 58'46	-4°22'33
asc. node	1710 Aug 11 02:56	0° ♄ 25'46		minimum elong	1711 Jun 27 04:36	5° ♄ 08'22	4°21'25
morning set	1710 Aug 22 01:20	20° ♄ 04'23		morning rise	1711 Jul 05 22:40	1° ♄ 02'33	
	1710 Aug 27 01:42	0° ♄		direct	1711 Jul 08 16:27	0° ♄ 43'46	
				morning max el	1711 Jul 18 23:12	5° ♄ 29'34	20°07'53
superior conj	1710 Aug 30 09:41	6° ♄ 29'23	1°43'10	asc. node	1711 Jul 29 00:01	18° ♄ 56'26	
minimum elong	1710 Aug 30 11:14	6° ♄ 36'50	1°43'07		1711 Aug 03 22:28	0° ♄	
max. Earth dist.	1710 Sep 06 02:47	19° ♄ 00'26	1.38668 AU	morning set	1711 Aug 06 05:43	4° ♄ 37'34	
evening rise	1710 Sep 09 22:55	25° ♄ 47'12					
	1710 Sep 12 10:06	0° ♄		superior conj	1711 Aug 13 23:08	20° ♄ 23'25	1°45'50
desc. node	1710 Sep 18 14:41	10° ♄ 06'44		minimum elong	1711 Aug 13 22:54	20° ♄ 22'15	1°45'50
	1710 Oct 02 02:06	0° ♄			1711 Aug 18 20:26	0° ♄	
evening max el	1710 Oct 15 12:09	16° ♄ 11'25	24°38'00	max. Earth dist.	1711 Aug 19 07:57	0° ♄ 55'07	1.36714 AU
retrograde	1710 Oct 26 23:42	22° ♄ 53'25		evening rise	1711 Aug 23 05:19	8° ♄ 10'30	
evening set	1710 Nov 01 12:15	20° ♄ 34'22		desc. node	1711 Sep 05 11:43	0° ♄ 30'01	
min. Earth dist.	1710 Nov 06 03:16	15° ♄ 17'49	0.67463 AU		1711 Sep 05 03:59	0° ♄	
inferior conj	1710 Nov 06 23:18	14° ♄ 11'04	-0°02'26	evening max el	1711 Sep 28 00:08	29° ♄ 51'09	25°49'28
minimum elong	1710 Nov 06 23:21	14° ♄ 10'52	0°02'25		1711 Sep 28 03:47	0° ♄	
transit middle	1710 Nov 06 23:21	14° ♄ 10'52	0°02'25	retrograde	1711 Oct 10 09:06	6° ♄ 54'43	
transit begin	1710 Nov 06 20:38	14° ♄ 19'56		evening set	1711 Oct 16 11:56	4° ♄ 21'33	
transit end	1710 Nov 07 02:05	14° ♄ 01'49			1711 Oct 20 13:04	30° ♄	
asc. node	1710 Nov 07 02:07	14° ♄ 01'39		min. Earth dist.	1711 Oct 20 19:19	29° ♄ 40'28	0.66822 AU
morning rise	1710 Nov 12 10:33	8° ♄ 08'41		inferior conj	1711 Oct 22 02:19	28° ♄ 02'22	-0°59'06
direct	1710 Nov 16 03:08	6° ♄ 50'21		minimum elong	1711 Oct 22 03:51	27° ♄ 57'31	0°58'27
morning max el	1710 Nov 23 18:40	11° ♄ 12'56	20°04'25	asc. node	1711 Oct 24 23:12	24° ♄ 36'39	
	1710 Dec 07 23:37	0° ♄		morning rise	1711 Oct 27 20:03	22° ♄ 08'33	
desc. node	1710 Dec 15 13:56	11° ♄ 26'01		direct	1711 Oct 31 01:45	21° ♄ 08'11	
morning set	1710 Dec 20 14:39	19° ♄ 09'26		morning max el	1711 Nov 07 01:11	25° ♄ 02'32	19°06'20
	1710 Dec 27 13:27	0° ♄			1711 Nov 11 06:38	0° ♄	
max. Earth dist.	1710 Dec 31 12:49	6° ♄ 18'16	1.43871 AU	morning set	1711 Nov 29 19:38	27° ♄ 50'13	
					1711 Dec 01 04:53	0° ♄	
superior conj	1711 Jan 05 23:55	15° ♄ 07'56	-1°54'18	desc. node	1711 Dec 02 10:58	1° ♄ 57'30	
minimum elong	1711 Jan 05 18:04	14° ♄ 44'04	1°53'58	max. Earth dist.	1711 Dec 14 04:16	20° ♄ 19'37	1.44860 AU
	1711 Jan 14 21:44	0° ♄					
evening rise	1711 Jan 19 00:26	7° ♄ 02'52		superior conj	1711 Dec 16 11:59	23° ♄ 59'28	-1°25'08
	1711 Feb 01 23:55	0° ♄		minimum elong	1711 Dec 16 03:12	23° ♄ 24'45	1°24'14
asc. node	1711 Feb 03 01:28	1° ♄ 25'54			1711 Dec 20 06:47	0° ♄	
evening max el	1711 Feb 05 22:04	4° ♄ 44'53	18°11'49	evening rise	1711 Dec 31 08:51	17° ♄ 55'56	
retrograde	1711 Feb 12 09:10	8° ♄ 10'33			1712 Jan 07 17:33	0° ♄	
evening set	1711 Feb 15 06:06	7° ♄ 28'07		evening max el	1712 Jan 20 10:06	18° ♄ 08'27	18°33'56
inferior conj	1711 Feb 21 10:04	2° ♄ 12'19	3°44'27	asc. node	1712 Jan 20 22:30	18° ♄ 39'05	
minimum elong	1711 Feb 21 10:07	2° ♄ 12'10	3°44'26	retrograde	1712 Jan 27 00:08	21° ♄ 46'41	
	1711 Feb 23 11:09	30° ♄		evening set	1712 Jan 30 02:35	20° ♄ 52'46	
min. Earth dist.	1711 Feb 24 02:08	29° ♄ 20'43	0.62964 AU	inferior conj	1712 Feb 04 22:06	15° ♄ 18'30	3°37'38
morning rise	1711 Feb 27 13:08	26° ♄ 10'28		minimum elong	1712 Feb 04 20:36	15° ♄ 22'55	3°37'29
direct	1711 Mar 06 12:12	23° ♄ 29'56		min. Earth dist.	1712 Feb 06 22:38	12° ♄ 54'37	0.64705 AU
desc. node	1711 Mar 13 13:07	25° ♄ 47'39		morning rise	1712 Feb 10 14:09	9° ♄ 10'22	
	1711 Mar 18 22:54	0° ♄		direct	1712 Feb 17 09:14	6° ♄ 18'55	
morning max el	1711 Mar 20 10:24	1° ♄ 25'27	27°46'37	desc. node	1712 Feb 28 10:10	11° ♄ 51'33	
	1711 Apr 10 11:03	0° ♄		morning max el	1712 Mar 01 19:40	14° ♄ 07'43	27°16'02
morning set	1711 Apr 23 14:32	24° ♄ 07'51			1712 Mar 14 17:10	0° ♄	
	1711 Apr 26 11:21	0° ♄			1712 Apr 02 02:18	0° ♄	
max. Earth dist.	1711 Apr 29 00:16	5° ♄ 20'46	1.32803 AU	morning set	1712 Apr 06 05:59	7° ♄ 52'55	
				max. Earth dist.	1712 Apr 10 22:41	17° ♄ 16'51	1.33732 AU
superior conj	1711 May 01 05:39	10° ♄ 07'08	-0°08'25				
minimum elong	1711 May 01 06:03	10° ♄ 09'20	0°08'20	superior conj	1712 Apr 14 09:54	24° ♄ 30'20	-0°36'05
behind sun begin	1711 May 01 01:33	9° ♄ 45'05		minimum elong	1712 Apr 14 11:42	24° ♄ 39'51	0°35'42
behind sun end	1711 May 01 10:32	10° ♄ 33'36			1712 Apr 17 00:01	0° ♄	
asc. node	1711 May 02 00:47	11° ♄ 50'39		asc. node	1712 Apr 17 21:50	1° ♄ 56'17	

evening rise	1712 Apr 21 16:56	9°♄59'05		evening rise	1713 Apr 06 01:00	24°♄28'46	
	1712 May 02 04:41	0°♄			1713 Apr 08 18:15	0°♄	
evening max el	1712 May 12 14:10	13°♄43'27	22°01'07	evening max el	1713 Apr 24 16:27	24°♄42'28	20°36'34
retrograde	1712 May 25 06:47	19°♄58'22			1713 May 04 04:04	0°♄	
desc. node	1712 May 26 09:25	19°♄55'35		retrograde	1713 May 05 19:52	0°♄06'59	
evening set	1712 May 28 00:05	19°♄41'55		evening set	1713 May 07 22:11	29°♄56'15	
inferior conj	1712 Jun 06 09:28	15°♄36'45	-3°02'13		1713 May 07 12:21	30°♄	
minimum elong	1712 Jun 06 01:56	15°♄47'19	2°59'57	desc. node	1713 May 13 06:26	28°♄05'31	
min. Earth dist.	1712 Jun 05 19:20	15°♄56'33	0.55053 AU	inferior conj	1713 May 17 03:32	25°♄58'27	-1°07'39
morning rise	1712 Jun 15 05:16	11°♄43'27		minimum elong	1713 May 17 00:20	26°♄03'04	1°06'30
direct	1712 Jun 18 06:14	11°♄22'53		min. Earth dist.	1713 May 18 07:53	25°♄17'38	0.55033 AU
morning max el	1712 Jun 30 03:59	16°♄57'22	21°32'38	morning rise	1713 May 26 01:41	21°♄48'35	
	1712 Jul 10 07:27	0°♄		direct	1713 May 29 16:21	21°♄20'30	
asc. node	1712 Jul 14 21:05	8°♄01'21		morning max el	1713 Jun 11 23:12	27°♄45'48	23°11'21
morning set	1712 Jul 20 14:27	19°♄24'40			1713 Jun 14 04:30	0°♄	
	1712 Jul 25 15:28	0°♄		asc. node	1713 Jul 01 18:08	27°♄31'07	
					1713 Jul 02 23:35	0°♄	
superior conj	1712 Jul 27 22:10	4°♄46'35	1°41'07	morning set	1713 Jul 05 01:35	4°♄19'11	
minimum elong	1712 Jul 27 20:39	4°♄38'40	1°41'01				
max. Earth dist.	1712 Jul 31 20:14	12°♄48'51	1.35040 AU	superior conj	1713 Jul 12 03:35	19°♄28'42	1°30'26
evening rise	1712 Aug 05 05:32	21°♄25'31		minimum elong	1713 Jul 12 01:21	19°♄16'44	1°30'11
	1712 Aug 09 20:36	0°♄		max. Earth dist.	1713 Jul 14 17:37	24°♄57'59	1.33738 AU
desc. node	1712 Aug 22 08:44	20°♄34'30			1713 Jul 17 03:45	0°♄	
	1712 Aug 28 23:55	0°♄		evening rise	1713 Jul 19 18:58	5°♄19'10	
evening max el	1712 Sep 09 12:26	13°♄27'49	26°45'37		1713 Aug 02 12:33	0°♄	
retrograde	1712 Sep 22 13:10	20°♄42'35		desc. node	1713 Aug 09 05:46	10°♄11'41	
evening set	1712 Sep 29 05:08	18°♄00'12		evening max el	1713 Aug 23 00:13	26°♄50'35	27°19'12
min. Earth dist.	1712 Oct 03 05:21	13°♄55'53	0.65837 AU		1713 Aug 26 15:50	0°♄	
inferior conj	1712 Oct 05 00:14	11°♄49'33	-1°57'13	retrograde	1713 Sep 05 11:34	4°♄09'07	
minimum elong	1712 Oct 05 03:21	11°♄40'22	1°55'58	evening set	1713 Sep 12 13:15	1°♄25'52	
asc. node	1712 Oct 10 20:16	6°♄15'33			1713 Sep 14 05:42	30°♄	
morning rise	1712 Oct 11 02:09	6°♄07'27		min. Earth dist.	1713 Sep 16 07:08	27°♄57'19	0.64486 AU
direct	1712 Oct 13 23:14	5°♄21'24		inferior conj	1713 Sep 18 14:45	25°♄27'42	-2°54'31
morning max el	1712 Oct 20 13:32	8°♄57'33	18°24'17	minimum elong	1713 Sep 18 19:16	25°♄15'31	2°52'58
	1712 Nov 04 05:57	0°♄		morning rise	1713 Sep 25 02:16	20°♄00'39	
morning set	1712 Nov 09 03:05	7°♄52'52		direct	1713 Sep 27 17:04	19°♄25'20	
desc. node	1712 Nov 18 08:00	22°♄37'45		asc. node	1713 Sep 27 17:18	19°♄25'20	
	1712 Nov 22 23:50	0°♄		morning max el	1713 Oct 04 05:11	22°♄52'19	17°59'14
					1713 Oct 09 19:55	0°♄	
superior conj	1712 Nov 24 13:02	2°♄26'27	-0°40'41	morning set	1713 Oct 21 15:07	19°♄19'34	
minimum elong	1712 Nov 24 07:47	2°♄05'46	0°39'58		1713 Oct 27 23:54	0°♄	
max. Earth dist.	1712 Nov 25 23:21	4°♄41'19	1.45129 AU				
evening rise	1712 Dec 10 17:51	27°♄52'21		superior conj	1713 Nov 04 00:55	11°♄30'34	0°07'54
	1712 Dec 12 02:18	0°♄		minimum elong	1713 Nov 04 01:51	11°♄34'18	0°07'46
greatest brilliancy	1712 Dec 21 01:19	14°♄02'22	-0.8m	behind sun begin	1713 Nov 03 16:40	10°♄57'15	
	1713 Jan 01 08:12	0°♄		behind sun end	1713 Nov 04 11:02	12°♄11'17	
evening max el	1713 Jan 02 19:15	1°♄35'55	19°13'22	desc. node	1713 Nov 05 05:02	13°♄23'31	
asc. node	1713 Jan 06 19:32	4°♄47'51		max. Earth dist.	1713 Nov 08 18:10	19°♄02'41	1.44654 AU
retrograde	1713 Jan 09 19:55	5°♄37'10			1713 Nov 15 17:49	0°♄	
evening set	1713 Jan 13 04:54	4°♄30'44		evening rise	1713 Nov 20 07:58	7°♄06'14	
	1713 Jan 17 17:27	30°♄		greatest brilliancy	1713 Dec 04 14:41	28°♄45'09	-0.6m
inferior conj	1713 Jan 18 18:41	28°♄40'06	3°16'50		1713 Dec 05 11:05	0°♄	
minimum elong	1713 Jan 18 16:19	28°♄47'43	3°16'23	evening max el	1713 Dec 16 23:44	15°♄05'10	20°08'21
min. Earth dist.	1713 Jan 20 04:03	26°♄53'25	0.66061 AU	retrograde	1713 Dec 24 17:42	19°♄37'57	
morning rise	1713 Jan 24 03:28	22°♄28'25		asc. node	1713 Dec 24 16:33	19°♄37'56	
direct	1713 Jan 30 12:30	19°♄39'56		evening set	1713 Dec 28 10:46	18°♄17'40	
morning max el	1713 Feb 12 05:20	27°♄10'30	26°16'53	inferior conj	1714 Jan 02 21:05	12°♄13'35	2°45'32
desc. node	1713 Feb 14 07:11	29°♄21'31		minimum elong	1714 Jan 02 18:25	12°♄22'31	2°44'49
	1713 Feb 14 21:08	0°♄		min. Earth dist.	1714 Jan 03 16:48	11°♄07'16	0.67018 AU
	1713 Mar 08 08:51	0°♄		morning rise	1714 Jan 08 01:53	6°♄00'17	
morning set	1713 Mar 20 08:50	20°♄55'47		direct	1714 Jan 13 21:21	3°♄25'09	
max. Earth dist.	1713 Mar 24 09:48	28°♄39'31	1.35117 AU	morning max el	1714 Jan 25 14:06	10°♄23'46	24°58'19
	1713 Mar 25 02:12	0°♄		desc. node	1714 Feb 01 04:13	17°♄53'04	
					1714 Feb 10 04:15	0°♄	
superior conj	1713 Mar 29 07:18	8°♄27'36	-1°03'39		1714 Mar 01 00:43	0°♄	
minimum elong	1713 Mar 29 10:28	8°♄43'48	1°03'05	morning set	1714 Mar 02 18:06	3°♄02'45	
asc. node	1713 Apr 04 18:52	21°♄53'02		max. Earth dist.	1714 Mar 06 09:57	9°♄41'32	1.36927 AU

superior conj	1714 Mar 12 18:55	21° K 51'14	-1°29'15	superior conj	1715 Feb 23 16:56	4° K 31'23	-1°50'14
minimum elong	1714 Mar 12 23:02	22° K 11'24	1°28'42	minimum elong	1715 Feb 23 20:55	4° K 50'00	1°49'54
	1714 Mar 16 21:13	0° Y		evening rise	1715 Mar 04 23:07	22° K 17'24	
evening rise	1714 Mar 21 03:58	8° Y 37'20			1715 Mar 08 23:46	0° Y	
asc. node	1714 Mar 22 15:53	11° Y 36'31		asc. node	1715 Mar 09 12:54	1° Y 01'21	
	1714 Apr 02 01:05	0° Z		evening max el	1715 Mar 21 06:44	18° Y 35'47	18°42'14
evening max el	1714 Apr 07 06:26	6° Z 20'16	19°29'29	retrograde	1715 Mar 29 06:26	22° Y 29'26	
retrograde	1714 Apr 16 16:44	10° Z 53'24		evening set	1715 Mar 31 13:28	22° Y 11'23	
evening set	1714 Apr 18 18:20	10° Z 41'14		inferior conj	1715 Apr 08 07:21	17° Y 48'35	2°18'14
inferior conj	1714 Apr 27 07:44	6° Z 35'40	0°48'15	minimum elong	1715 Apr 08 11:24	17° Y 40'58	2°17'07
minimum elong	1714 Apr 27 09:44	6° Z 32'26	0°47'34	min. Earth dist.	1715 Apr 11 15:42	15° Y 19'02	0.57615 AU
min. Earth dist.	1714 Apr 29 22:23	4° Z 55'05	0.55952 AU	morning rise	1715 Apr 16 06:13	12° Y 33'23	
desc. node	1714 Apr 30 03:26	4° Z 47'14		desc. node	1715 Apr 17 00:25	12° Y 13'56	
morning rise	1714 May 05 22:22	1° Z 53'39		direct	1715 Apr 21 21:13	11° Y 15'01	
direct	1714 May 10 11:36	1° Z 06'47		morning max el	1715 May 06 05:50	18° Y 48'42	26°21'15
morning max el	1714 May 24 13:53	8° Z 13'58	24°52'38		1715 May 15 15:36	0° Z	
	1714 Jun 09 14:50	0° II			1715 Jun 02 00:25	0° II	
asc. node	1714 Jun 18 15:09	17° II 18'54		morning set	1715 Jun 04 00:25	4° II 09'05	
morning set	1714 Jun 19 13:26	19° II 15'46		asc. node	1715 Jun 05 12:12	7° II 19'03	
	1714 Jun 24 12:57	0° E					
superior conj	1714 Jun 26 13:00	4° E 22'06	1°14'53	superior conj	1715 Jun 11 00:27	19° II 20'05	0°55'19
minimum elong	1714 Jun 26 10:35	4° E 08'57	1°14'30	minimum elong	1715 Jun 10 22:20	19° II 08'27	0°54'56
max. Earth dist.	1714 Jun 27 23:04	7° E 27'16	1.32837 AU	max. Earth dist.	1715 Jun 11 09:49	20° II 11'34	1.32327 AU
evening rise	1714 Jul 03 17:53	19° E 40'43			1715 Jun 15 22:00	0° E	
	1714 Jul 08 23:35	0° O		evening rise	1715 Jun 17 23:20	4° E 20'56	
desc. node	1714 Jul 27 02:47	29° O 09'52			1715 Jul 01 17:02	0° O	
	1714 Jul 27 18:08	0° P		desc. node	1715 Jul 13 23:47	17° O 13'05	
evening max el	1714 Aug 05 09:40	9° P 47'03	27°23'55	evening max el	1715 Jul 18 14:31	22° O 05'58	26°55'57
retrograde	1714 Aug 19 03:53	17° P 04'31		retrograde	1715 Aug 01 12:56	29° O 20'05	
evening set	1714 Aug 26 08:53	14° P 32'17		evening set	1715 Aug 08 11:47	27° O 12'36	
min. Earth dist.	1714 Aug 29 23:02	11° P 33'57	0.62792 AU	min. Earth dist.	1715 Aug 12 04:42	24° O 32'51	0.60833 AU
inferior conj	1714 Sep 01 19:04	8° P 50'02	-3°47'34	inferior conj	1715 Aug 15 09:56	21° O 49'08	-4°30'41
minimum elong	1714 Sep 02 00:19	8° P 37'19	3°46'10	minimum elong	1715 Aug 15 14:30	21° O 39'25	4°29'56
morning rise	1714 Sep 08 17:10	3° P 41'10		morning rise	1715 Aug 22 19:02	17° O 01'12	
direct	1714 Sep 11 04:16	3° P 13'18		direct	1715 Aug 25 05:12	16° O 38'01	
asc. node	1714 Sep 14 14:21	4° P 08'22		asc. node	1715 Sep 01 11:24	20° O 14'28	
morning max el	1714 Sep 17 21:08	6° P 39'32	17°51'53	morning max el	1715 Sep 01 10:22	20° O 11'57	18°03'22
	1714 Oct 03 00:58	0° A			1715 Sep 08 17:46	0° P	
morning set	1714 Oct 04 02:19	1° A 52'29		morning set	1715 Sep 17 06:38	15° P 14'45	
					1715 Sep 25 07:13	0° A	
superior conj	1714 Oct 15 13:44	21° A 48'52	0°49'36	superior conj	1715 Sep 27 05:15	3° A 25'46	1°19'33
minimum elong	1714 Oct 15 18:02	22° A 07'00	0°49'01	minimum elong	1715 Sep 27 09:35	3° A 44'55	1°19'06
	1714 Oct 20 12:11	0° M		max. Earth dist.	1715 Oct 04 20:00	16° A 32'36	1.41841 AU
max. Earth dist.	1714 Oct 22 09:32	3° M 04'15	1.43507 AU	desc. node	1715 Oct 09 23:07	24° A 56'55	
desc. node	1714 Oct 23 02:04	4° M 10'55		evening rise	1715 Oct 10 12:02	25° A 48'41	
evening rise	1714 Oct 30 16:15	16° M 10'12			1715 Oct 13 03:24	0° M	
	1714 Nov 08 18:21	0° X			1715 Nov 02 14:52	0° X	
evening max el	1714 Nov 29 22:39	28° X 35'09	21°16'14	evening max el	1715 Nov 12 16:19	12° X 07'05	22°32'57
	1714 Dec 01 09:35	0° Z		retrograde	1715 Nov 22 10:47	17° X 55'22	
retrograde	1714 Dec 08 15:15	3° Z 44'56		evening set	1715 Nov 27 01:45	16° X 03'01	
asc. node	1714 Dec 11 13:34	2° Z 57'10		asc. node	1715 Nov 28 10:37	14° X 45'52	
evening set	1714 Dec 12 18:17	2° Z 09'18		inferior conj	1715 Dec 02 10:17	9° X 42'20	1°20'04
	1714 Dec 14 23:29	30° R X		minimum elong	1715 Dec 02 08:33	9° X 48'20	1°19'22
inferior conj	1714 Dec 18 02:56	25° X 55'06	2°06'03	min. Earth dist.	1715 Dec 02 06:53	9° X 54'05	0.67812 AU
minimum elong	1714 Dec 18 00:31	26° X 03'26	2°05'13	morning rise	1715 Dec 07 15:12	3° X 31'45	
min. Earth dist.	1714 Dec 18 10:33	25° X 28'47	0.67593 AU	direct	1715 Dec 12 04:56	1° X 39'02	
morning rise	1714 Dec 23 06:34	19° X 42'07		morning max el	1715 Dec 21 10:42	7° X 05'23	22°03'30
direct	1714 Dec 28 11:09	17° X 26'47		desc. node	1716 Jan 05 22:19	26° X 54'32	
morning max el	1715 Jan 07 22:48	23° X 41'30	23°30'37		1716 Jan 08 01:32	0° Z	
	1715 Jan 13 12:59	0° Z		morning set	1716 Jan 23 08:14	23° Z 27'30	
desc. node	1715 Jan 19 01:15	7° Z 08'09			1716 Jan 27 08:25	0° A	
	1715 Feb 03 14:23	0° A		max. Earth dist.	1716 Jan 29 02:10	2° A 53'45	1.41158 AU
morning set	1715 Feb 12 03:35	13° A 57'04					
max. Earth dist.	1715 Feb 16 04:34	20° A 54'31	1.39025 AU	superior conj	1716 Feb 05 20:31	16° A 16'35	-2°02'52
	1715 Feb 21 06:18	0° K		minimum elong	1716 Feb 05 22:24	16° A 24'56	2°02'49
					1716 Feb 13 09:55	0° K	

evening rise	1716 Feb 16 07:09	5° K 21'29		superior conj	1717 Jan 17 00:24	26° Z 54'28	-2°02'24
asc. node	1716 Feb 24 09:56	20° K 01'13		minimum elong	1717 Jan 16 21:43	26° Z 43'10	2°02'19
	1716 Mar 02 07:32	0° Y			1717 Jan 18 20:20	0° \approx	
evening max el	1716 Mar 03 14:18	1° Y 21'06	18°15'00	evening rise	1717 Jan 29 00:05	17° \approx 41'15	
retrograde	1716 Mar 10 14:59	4° Y 51'56			1717 Feb 05 00:20	0° K	
evening set	1716 Mar 13 03:56	4° Y 25'20		asc. node	1717 Feb 10 06:59	8° K 28'18	
	1716 Mar 19 19:41	30° K K		evening max el	1717 Feb 15 01:53	14° K 27'12	18°07'26
inferior conj	1716 Mar 20 04:08	29° K 41'32	3°14'08	retrograde	1717 Feb 21 15:04	17° K 51'01	
minimum elong	1716 Mar 20 07:18	29° K 34'34	3°13'35	evening set	1717 Feb 24 09:10	17° K 14'33	
min. Earth dist.	1716 Mar 23 13:42	26° K 44'24	0.59689 AU	inferior conj	1717 Mar 02 19:24	12° K 09'47	3°40'09
morning rise	1716 Mar 27 08:22	24° K 01'24		minimum elong	1717 Mar 02 20:35	12° K 06'48	3°40'05
direct	1716 Apr 02 19:33	22° K 06'10		min. Earth dist.	1717 Mar 05 19:21	9° K 10'00	0.61817 AU
desc. node	1716 Apr 02 21:29	22° K 06'11		morning rise	1717 Mar 09 06:38	6° K 13'45	
morning max el	1716 Apr 17 03:07	29° K 53'39	27°22'50	direct	1717 Mar 16 04:02	3° K 46'41	
	1716 Apr 17 05:42	0° Y		desc. node	1717 Mar 20 18:31	4° K 45'33	
	1716 May 08 14:15	0° B		morning max el	1717 Mar 30 06:51	11° K 40'53	27°48'46
morning set	1716 May 18 08:46	18° B 52'25			1717 Apr 13 17:36	0° Y	
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	1716 May 23 13:32	0° II		morning set	1717 May 02 12:35	3° B 19'43	
max. Earth dist.	1716 May 24 22:09	2° II 58'45	1.32204 AU	max. Earth dist.	1717 May 08 08:19	15° B 36'21	1.32472 AU
				asc. node	1717 May 09 06:18	17° B 35'32	
superior conj	1716 May 25 12:07	4° II 15'32	0°32'29	superior conj	1717 May 09 22:22	19° B 03'01	0°07'05
minimum elong	1716 May 25 10:43	4° II 07'51	0°32'12	minimum elong	1717 May 09 22:02	19° B 01'13	0°07'01
evening rise	1716 Jun 01 08:50	19° II 10'43		behind sun begin	1717 May 09 17:25	18° B 36'01	
	1716 Jun 06 16:33	0° E		behind sun end	1717 May 10 02:40	19° B 26'27	
	1716 Jun 26 00:56	0° Ω			1717 May 14 22:57	0° II	
evening max el	1716 Jun 29 12:31	3° Ω 38'01	25°55'48	evening rise	1717 May 16 20:24	4° II 03'22	
desc. node	1716 Jun 29 20:48	3° Ω 57'32			1717 May 30 18:21	0° E	
retrograde	1716 Jul 13 12:48	10° Ω 48'01		evening max el	1717 Jun 11 04:01	14° E 27'15	24°30'50
evening set	1716 Jul 19 17:07	9° Ω 16'22		desc. node	1717 Jun 16 17:48	18° E 52'10	
min. Earth dist.	1716 Jul 24 01:01	6° Ω 38'34	0.58771 AU	retrograde	1717 Jun 25 01:38	21° E 28'55	
inferior conj	1716 Jul 27 07:42	4° Ω 13'57	-4°54'51	evening set	1717 Jun 29 22:50	20° E 35'22	
minimum elong	1716 Jul 27 09:14	4° Ω 11'07	4°54'47	min. Earth dist.	1717 Jul 05 15:02	17° E 41'53	0.56875 AU
	1716 Aug 03 12:36	30° K E		inferior conj	1717 Jul 08 09:31	15° E 55'36	-4°46'58
morning rise	1716 Aug 04 03:34	29° E 48'46		minimum elong	1717 Jul 08 05:54	16° E 01'24	4°46'37
direct	1716 Aug 06 15:29	29° E 28'13		morning rise	1717 Jul 16 15:41	11° E 51'26	
	1716 Aug 09 15:49	0° Ω		direct	1717 Jul 19 07:03	11° E 32'20	
morning max el	1716 Aug 14 17:40	3° Ω 19'49	18°35'02	morning max el	1717 Jul 28 16:02	15° E 53'57	19°27'59
asc. node	1716 Aug 18 08:28	7° Ω 27'35		asc. node	1717 Aug 05 05:32	25° E 33'11	
morning set	1716 Aug 30 23:02	29° Ω 12'00			1717 Aug 07 21:09	0° Ω	
	1716 Aug 31 08:57	0° M		morning set	1717 Aug 14 23:50	13° Ω 34'01	
superior conj	1716 Sep 08 18:54	16° M 07'59	1°37'35	superior conj	1717 Aug 23 01:04	29° Ω 39'49	1°45'19
minimum elong	1716 Sep 08 21:35	16° M 20'30	1°37'24	minimum elong	1717 Aug 23 01:49	29° Ω 43'29	1°45'18
max. Earth dist.	1716 Sep 16 01:47	29° M 19'23	1.39859 AU		1717 Aug 23 05:12	0° M	
	1716 Sep 16 11:06	0° E		max. Earth dist.	1717 Aug 29 05:39	11° M 27'44	1.37814 AU
evening rise	1716 Sep 20 06:03	6° E 28'56		evening rise	1717 Sep 02 00:01	18° M 16'08	
desc. node	1716 Sep 25 20:09	15° E 37'31			1717 Sep 08 21:18	0° E	
	1716 Oct 05 05:42	0° M		desc. node	1717 Sep 12 17:10	6° E 08'28	
evening max el	1716 Oct 25 06:11	25° M 42'09	23°53'01		1717 Sep 29 12:13	0° M	
	1716 Oct 30 08:11	0° Z		evening max el	1717 Oct 07 18:11	9° M 20'11	25°09'43
retrograde	1716 Nov 05 03:05	2° Z 06'00		retrograde	1717 Oct 19 15:13	16° M 12'26	
evening set	1716 Nov 10 07:35	29° M 56'22		evening set	1717 Oct 25 10:03	13° M 46'40	
	1716 Nov 10 05:51	30° K M		min. Earth dist.	1717 Oct 29 21:40	8° M 45'19	0.67236 AU
asc. node	1716 Nov 14 07:40	25° M 26'37		inferior conj	1717 Oct 30 22:21	7° M 24'40	-0°26'12
min. Earth dist.	1716 Nov 15 03:23	24° M 20'27	0.67690 AU	minimum elong	1717 Oct 30 23:01	7° M 22'31	0°25'55
inferior conj	1716 Nov 15 17:21	23° M 33'00	0°28'53	asc. node	1717 Nov 01 04:45	5° M 46'48	
minimum elong	1716 Nov 15 16:40	23° M 35'20	0°28'35	morning rise	1717 Nov 05 12:11	1° M 25'53	
morning rise	1716 Nov 21 01:44	17° M 27'07		direct	1717 Nov 08 23:52	0° M 15'42	
direct	1716 Nov 25 01:37	15° M 56'51		morning max el	1717 Nov 16 07:40	4° M 24'43	19°37'50
morning max el	1716 Dec 03 05:14	20° M 39'36	20°44'23	greatest brilliancy	1717 Nov 29 15:17	22° M 09'02	-0.7m
	1716 Dec 10 22:52	0° Z			1717 Dec 04 19:45	0° Z	
desc. node	1716 Dec 22 19:23	17° Z 03'24		desc. node	1717 Dec 09 16:25	7° Z 27'55	
	1716 Dec 31 07:15	0° Z		morning set	1717 Dec 11 08:30	10° Z 02'42	
morning set	1717 Jan 01 11:31	1° Z 49'46		max. Earth dist.	1717 Dec 23 20:06	29° Z 34'08	1.44376 AU
max. Earth dist.	1717 Jan 10 07:34	15° Z 51'08	1.43022 AU		1717 Dec 24 02:37	0° Z	


































































































































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minimum elong	1717 Dec 27 17:58	5°  48'38	1°43'37	max. Earth dist.		1718 Dec 06 13:08	13°  45'21	1.45064 AU
evening rise	1718 Jan 10 21:30	29°  07'39						
	1718 Jan 11 09:55	0° 		superior conj		1718 Dec 07 06:48	14°  54'47	-1°07'37
asc. node	1718 Jan 28 04:02	26°  11'42		minimum elong		1718 Dec 06 22:46	14°  23'12	1°06'40
evening max el	1718 Jan 29 14:26	27°  45'29	18°18'57			1718 Dec 16 19:55	0° 	
	1718 Feb 01 06:50	0° 		evening rise		1718 Dec 22 19:59	9°  36'29	
retrograde	1718 Feb 05 01:52	1°  15'27				1719 Jan 04 15:25	0° 	
evening set	1718 Feb 08 01:01	0°  28'18		evening max el		1719 Jan 13 01:27	11°  10'59	18°48'36
	1718 Feb 08 20:17	30° 		asc. node		1719 Jan 15 01:04	12°  59'17	
inferior conj	1718 Feb 14 00:59	25°  04'10	3°43'30	retrograde		1719 Jan 19 19:18	14°  58'08	
minimum elong	1718 Feb 14 00:18	25°  06'04	3°43'29	evening set		1719 Jan 23 00:16	13°  59'15	
min. Earth dist.	1718 Feb 16 10:26	22°  22'47	0.63745 AU	inferior conj		1719 Jan 28 17:03	8°  17'46	3°30'15
morning rise	1718 Feb 19 22:51	18°  58'55		minimum elong		1719 Jan 28 15:07	8°  23'45	3°29'59
direct	1718 Feb 26 20:56	16°  12'10		min. Earth dist.		1719 Jan 30 11:05	6°  08'39	0.65334 AU
desc. node	1718 Mar 07 15:34	19°  44'45		morning rise		1719 Feb 03 05:34	2°  07'35	
morning max el	1718 Mar 12 15:05	24°  06'25	27°37'39			1719 Feb 06 10:49	30°  18'30	
	1718 Mar 17 22:46	0° 		direct		1719 Feb 09 20:55	29°  15'36	
	1718 Apr 07 01:58	0° 				1719 Feb 13 12:45	0° 	
morning set	1718 Apr 16 09:24	17°  22'37		desc. node		1719 Feb 22 12:37	6°  28'41	
max. Earth dist.	1718 Apr 21 12:05	27°  05'00	1.33145 AU	morning max el		1719 Feb 23 00:52	6°  59'07	26°53'43
	1718 Apr 22 12:44	0° 				1719 Mar 12 20:02	0° 	
						1719 Mar 30 09:18	0° 	
superior conj	1718 Apr 24 05:21	3°  36'19	-0°20'05	morning set		1719 Mar 30 20:01	0°  51'12	
minimum elong	1718 Apr 24 06:20	3°  41'37	0°19'52	max. Earth dist.		1719 Apr 04 05:40	9°  30'13	1.34263 AU
asc. node	1718 Apr 26 03:21	7°  43'24						
evening rise	1718 May 01 08:06	18°  51'56		superior conj		1719 Apr 08 06:59	17°  49'03	-0°47'54
	1718 May 06 19:48	0° 		minimum elong		1719 Apr 08 09:23	18°  01'35	0°47'26
evening max el	1718 May 23 18:04	24°  56'34	22°55'05	asc. node		1719 Apr 13 00:22	27°  04'52'27	
	1718 May 30 15:24	0° 				1719 Apr 14 01:54	0° 	
desc. node	1718 Jun 03 14:48	1°  21'11		evening rise		1719 Apr 15 18:04	3°  30'17	
retrograde	1718 Jun 06 02:18	1°  35'12				1719 Apr 30 16:55	0° 	
evening set	1718 Jun 09 11:48	1°  09'53		evening max el		1719 May 05 14:26	5°  13'19	21°23'20
	1718 Jun 12 20:22	30°  18'30		retrograde		1719 May 17 16:53	11°  13'03	
min. Earth dist.	1718 Jun 17 02:56	27°  46'52	0.55484 AU	evening set		1719 May 20 01:19	11°  12'04	
inferior conj	1718 Jun 18 16:06	26°  53'12	-3°54'06	desc. node		1719 May 21 11:49	11°  12'00'53	
minimum elong	1718 Jun 18 08:30	27°  04'12	3°52'19	inferior conj		1719 May 29 10:56	7°  12'03'33	-2°16'05
morning rise	1718 Jun 27 07:39	23°  00'39		minimum elong		1719 May 29 04:45	7°  12'29'14	2°14'00
direct	1718 Jun 30 03:46	22°  14'43		min. Earth dist.		1719 May 29 15:15	7°  12'14'30	0.54918 AU
morning max el	1718 Jul 11 03:27	27°  14'06	20°41'54	morning rise		1719 Jun 07 08:40	3°  12'22'12	
	1718 Jul 13 07:51	0° 		direct		1719 Jun 10 14:13	2°  12'59'29	
asc. node	1718 Jul 23 02:36	14°  29'12		morning max el		1719 Jun 23 03:47	8°  12'56'53	22°13'32
morning set	1718 Jul 30 06:18	28°  13'37				1719 Jul 08 02:06	0° 	
	1718 Jul 31 02:59	0° 		asc. node		1719 Jul 09 23:38	3°  12'35'20	
				morning set		1719 Jul 14 16:14	13°  12'04'02	
superior conj	1718 Aug 06 19:03	13°  12'47'40	1°44'40					
minimum elong	1718 Aug 06 18:12	13°  12'43'21	1°44'38	superior conj		1719 Jul 21 21:05	28°  12'19'45	1°37'15
max. Earth dist.	1718 Aug 11 13:01	23°  12'17'46	1.35950 AU	minimum elong		1719 Jul 21 19:12	28°  12'09'47	1°37'05
	1718 Aug 15 01:05	0° 				1719 Jul 22 16:08	0° 	
evening rise	1718 Aug 15 14:32	1°  12'02'46		max. Earth dist.		1719 Jul 25 04:47	5°  12'15'00	1.34430 AU
desc. node	1718 Aug 30 14:11	26°  12'24'36		evening rise		1719 Jul 29 20:52	14°  12'18'35'38	
	1718 Sep 01 23:23	0° 				1719 Aug 07 06:23	0° 	
evening max el	1718 Sep 20 06:03	22°  12'59'04	26°15'40	desc. node		1719 Aug 17 11:11	16°  12'18'25	
	1718 Oct 01 06:53	0° 				1719 Aug 27 17:12	0° 	
retrograde	1718 Oct 02 22:36	0°  12'09'27		evening max el		1719 Sep 02 18:17	6°  12'31'09	27°03'12
	1718 Oct 04 13:01	30°  12'30'18		retrograde		1719 Sep 16 00:30	13°  12'48'55	
evening set	1718 Oct 09 07:17	27°  12'31'17		evening set		1719 Sep 22 20:58	11°  12'40'05'05	
min. Earth dist.	1718 Oct 13 11:26	23°  12'40'54	0.66441 AU	min. Earth dist.		1719 Sep 26 18:19	7°  12'41'16'05	0.65298 AU
inferior conj	1718 Oct 14 23:28	21°  12'41'00	-1°23'42	inferior conj		1719 Sep 28 18:32	4°  12'42'58'59	-2°21'48
minimum elong	1718 Oct 15 01:40	21°  12'40'08'12	1°22'46	minimum elong		1719 Sep 28 22:17	4°  12'43'48'18	2°20'23
asc. node	1718 Oct 19 01:47	16°  12'44'44'12				1719 Oct 03 22:37	30°  12'44'30'18	
morning rise	1718 Oct 20 20:30	15°  12'45'25'56		morning rise		1719 Oct 05 00:21	29°  12'46'29'17	
direct	1718 Oct 23 22:09	14°  12'46'32'19		asc. node		1719 Oct 07 22:49	28°  12'48'28'17	
morning max el	1718 Oct 30 17:02	18°  12'48'18'01	18°46'28	direct		1719 Oct 07 18:22	28°  12'49'28'17	
	1718 Nov 08 15:22	0° 				1719 Oct 11 15:17	0° 	
morning set	1718 Nov 20 23:38	19°  12'49'18'15'52		morning max el		1719 Oct 14 07:04	2°  12'50'13'21	18°11'30
desc. node	1718 Nov 26 13:28	28°  12'50'18'03'54		morning set		1719 Nov 01 19:37	29°  12'51'29'55'33	

	1719 Nov 01 20:42	0°♄		superior conj	1720 Oct 26 07:22	3°♄03'06	0°26'51
desc. node	1719 Nov 13 10:30	18°♄46'45		minimum elong	1720 Oct 26 10:13	3°♄14'45	0°26'27
				desc. node	1720 Oct 30 07:31	9°♄33'14	
superior conj	1719 Nov 16 09:58	23°♄30'50	-0°19'51	max. Earth dist.	1720 Nov 01 01:55	12°♄23'02	1.44246 AU
minimum elong	1719 Nov 16 07:25	23°♄20'45	0°19'30	evening rise	1720 Nov 11 05:22	28°♄15'58	
max. Earth dist.	1719 Nov 19 08:01	28°♄07'23	1.45016 AU		1720 Nov 12 08:26	0°♄	
	1719 Nov 20 12:39	0°♄			1720 Dec 02 17:25	0°♄	
evening rise	1719 Dec 02 19:50	19°♄11'36		evening max el	1720 Dec 09 11:08	8°♄09'52	20°35'55
	1719 Dec 09 19:03	0°♄		retrograde	1720 Dec 17 13:58	12°♄57'22	
greatest brilliancy	1719 Dec 15 04:45	8°♄16'23	-0.7m	asc. node	1720 Dec 18 19:06	12°♄49'06	
evening max el	1719 Dec 27 08:52	24°♄39'55	19°35'01	evening set	1720 Dec 21 11:08	11°♄30'36	
asc. node	1720 Jan 01 22:04	28°♄36'32		inferior conj	1720 Dec 26 20:32	5°♄21'57	2°29'42
retrograde	1720 Jan 03 16:08	28°♄53'28		minimum elong	1720 Dec 26 17:56	5°♄30'52	2°28'53
evening set	1720 Jan 07 04:20	27°♄41'26		min. Earth dist.	1720 Dec 27 10:55	4°♄32'57	0.67312 AU
inferior conj	1720 Jan 12 16:26	21°♄45'01	3°04'42		1720 Dec 31 03:22	30°♄♄	
minimum elong	1720 Jan 12 13:52	21°♄53'25	3°04'06	morning rise	1721 Jan 01 00:33	29°♄08'51	
min. Earth dist.	1720 Jan 13 19:53	20°♄15'05	0.66523 AU	direct	1721 Jan 06 13:52	26°♄41'34	
morning rise	1720 Jan 17 23:10	15°♄32'27			1721 Jan 14 01:19	0°♄	
direct	1720 Jan 24 02:51	12°♄48'17		morning max el	1721 Jan 17 18:21	3°♄21'49	24°21'34
morning max el	1720 Feb 05 10:00	20°♄06'55	25°45'07	desc. node	1721 Jan 26 06:43	13°♄19'21	
desc. node	1720 Feb 09 09:40	24°♄27'32			1721 Feb 07 03:11	0°♄	
	1720 Feb 13 21:48	0°♄		morning set	1721 Feb 22 16:04	25°♄10'42	
	1720 Mar 04 23:09	0°♄			1721 Feb 25 09:33	0°♄	
morning set	1720 Mar 12 16:08	13°♄32'41		max. Earth dist.	1721 Feb 26 08:37	1°♄43'44	1.37801 AU
max. Earth dist.	1720 Mar 16 11:30	20°♄40'16	1.35839 AU				
	1720 Mar 21 05:58	0°♄		superior conj	1721 Mar 05 07:07	14°♄40'48	-1°38'55
				minimum elong	1721 Mar 05 11:21	15°♄01'11	1°38'25
superior conj	1720 Mar 22 00:42	1°♄33'51	-1°14'53		1721 Mar 13 02:07	0°♄	
minimum elong	1720 Mar 22 04:21	1°♄52'12	1°14'18	evening rise	1721 Mar 14 00:19	1°♄49'58	
asc. node	1720 Mar 29 21:24	17°♄37'26		asc. node	1721 Mar 16 18:25	7°♄13'55	
evening rise	1720 Mar 30 00:17	17°♄52'09		evening max el	1721 Mar 30 16:36	28°♄49'08	19°06'52
	1720 Apr 05 04:52	0°♄			1721 Apr 01 00:13	0°♄	
evening max el	1720 Apr 16 21:54	16°♄54'29	20°05'44	retrograde	1721 Apr 08 10:44	3°♄03'32	
retrograde	1720 Apr 27 07:20	21°♄55'40		evening set	1721 Apr 10 14:30	2°♄49'10	
evening set	1720 Apr 29 08:12	21°♄44'57			1721 Apr 16 17:41	30°♄♄	
desc. node	1720 May 07 08:50	18°♄20'02		inferior conj	1721 Apr 18 19:35	28°♄36'41	1°30'30
inferior conj	1720 May 08 07:47	17°♄45'53	-0°16'41	minimum elong	1721 Apr 18 22:54	28°♄30'59	1°29'25
minimum elong	1720 May 08 07:01	17°♄47'02	0°16'23	min. Earth dist.	1721 Apr 21 19:49	26°♄33'38	0.56592 AU
min. Earth dist.	1720 May 10 04:37	16°♄38'56	0.55317 AU	desc. node	1721 Apr 24 05:52	25°♄04'23	
morning rise	1720 May 17 04:00	13°♄23'34		morning rise	1721 Apr 27 04:19	23°♄40'22	
direct	1720 May 21 03:41	12°♄48'51		direct	1721 May 02 04:42	22°♄41'35	
morning max el	1720 Jun 03 20:14	19°♄33'43	23°54'54		1721 May 16 10:20	0°♄	
	1720 Jun 12 14:28	0°♄		morning max el	1721 May 16 10:41	0°♄00'52	25°32'48
asc. node	1720 Jun 25 20:40	23°♄13'49			1721 Jun 06 04:50	0°♄	
morning set	1720 Jun 28 03:53	28°♄00'16		morning set	1721 Jun 12 15:35	12°♄56'11	
	1720 Jun 29 02:30	0°♄		asc. node	1721 Jun 12 17:43	13°♄07'26	
superior conj	1720 Jul 05 04:29	13°♄07'41	1°24'22	superior conj	1721 Jun 19 14:59	28°♄03'32	1°07'01
minimum elong	1720 Jul 05 02:06	12°♄54'51	1°24'04	minimum elong	1721 Jun 19 12:38	27°♄50'42	1°06'38
max. Earth dist.	1720 Jul 07 06:02	17°♄33'48	1.33309 AU	max. Earth dist.	1721 Jun 20 14:22	0°♄11'26	1.32580 AU
evening rise	1720 Jul 12 14:48	28°♄42'55			1721 Jun 20 12:17	0°♄	
	1720 Jul 13 06:11	0°♄		evening rise	1721 Jun 26 16:51	13°♄13'20	
	1720 Jul 30 09:52	0°♄			1721 Jul 05 08:52	0°♄	
desc. node	1720 Aug 03 08:10	5°♄40'27		desc. node	1721 Jul 21 05:11	24°♄17'22	
evening max el	1720 Aug 15 05:36	19°♄45'06	27°25'07		1721 Jul 26 03:04	0°♄	
retrograde	1720 Aug 28 20:15	27°♄02'51		evening max el	1721 Jul 28 13:29	2°♄26'51	27°16'03
evening set	1720 Sep 05 00:12	24°♄23'04		retrograde	1721 Aug 11 09:17	9°♄42'14	
min. Earth dist.	1720 Sep 08 16:11	21°♄08'04	0.63806 AU	evening set	1721 Aug 18 13:15	7°♄18'52	
inferior conj	1720 Sep 11 05:05	18°♄31'20	-3°17'49	min. Earth dist.	1721 Aug 22 03:32	4°♄30'23	0.61989 AU
minimum elong	1720 Sep 11 10:02	18°♄18'33	3°16'16	inferior conj	1721 Aug 25 04:06	1°♄44'41	-4°07'31
morning rise	1720 Sep 17 20:58	13°♄11'16		minimum elong	1721 Aug 25 09:18	1°♄32'45	4°06'20
direct	1720 Sep 20 09:56	12°♄39'23			1721 Aug 27 03:05	30°♄♄	
asc. node	1720 Sep 21 19:52	12°♄49'26		morning rise	1721 Sep 01 06:51	26°♄44'25	
morning max el	1720 Sep 26 23:06	16°♄05'05	17°53'50	direct	1721 Sep 03 17:23	26°♄18'41	
	1720 Oct 06 19:33	0°♄		asc. node	1721 Sep 08 16:55	28°♄09'24	
morning set	1720 Oct 13 18:16	11°♄52'38		morning max el	1721 Sep 10 14:16	29°♄46'42	17°54'26
	1720 Oct 24 10:53	0°♄			1721 Sep 10 19:37	0°♄	

morning set	1721 Sep 26 13:27	24° \mathbb{M} 48'32		superior conj	1722 Sep 19 09:31	26° \mathbb{M} 02'35	1°28'35
	1721 Sep 29 10:23	0° \mathbb{L}		minimum elong	1722 Sep 19 13:15	26° \mathbb{M} 19'29	1°28'15
					1722 Sep 21 14:19	0° \mathbb{L}	
superior conj	1721 Oct 07 07:53	13° \mathbb{L} 55'48	1°03'49	max. Earth dist.	1722 Sep 26 23:59	9° \mathbb{L} 24'25	1.41012 AU
minimum elong	1721 Oct 07 12:30	14° \mathbb{L} 15'43	1°03'16	evening rise	1722 Oct 01 21:02	17° \mathbb{L} 31'52	
max. Earth dist.	1721 Oct 14 15:52	26° \mathbb{L} 14'05	1.42850 AU	desc. node	1722 Oct 04 01:33	21° \mathbb{L} 04'14	
	1721 Oct 16 23:30	0° \mathbb{M}			1722 Oct 09 18:09	0° \mathbb{M}	
desc. node	1721 Oct 17 04:32	0° \mathbb{M} 20'19			1722 Oct 31 06:25	0° \mathbb{X}	
evening rise	1721 Oct 21 16:38	7° \mathbb{M} 29'46		evening max el	1722 Nov 04 23:19	5° \mathbb{X} 12'45	23°06'59
	1721 Nov 05 14:54	0° \mathbb{X}		retrograde	1722 Nov 15 05:19	11° \mathbb{X} 17'33	
evening max el	1721 Nov 22 07:42	21° \mathbb{X} 40'34	21°48'04	evening set	1722 Nov 20 01:50	9° \mathbb{X} 17'42	
retrograde	1721 Dec 01 10:53	27° \mathbb{X} 06'42		asc. node	1722 Nov 22 13:13	6° \mathbb{X} 44'31	
evening set	1721 Dec 05 18:52	25° \mathbb{X} 23'50		inferior conj	1722 Nov 25 10:42	2° \mathbb{X} 55'07	0°58'54
asc. node	1721 Dec 05 16:09	25° \mathbb{X} 29'12		minimum elong	1722 Nov 25 09:22	2° \mathbb{X} 59'42	0°58'21
inferior conj	1721 Dec 11 03:16	19° \mathbb{X} 06'18	1°47'17	min. Earth dist.	1722 Nov 25 02:44	3° \mathbb{X} 22'34	0.67792 AU
minimum elong	1721 Dec 11 01:05	19° \mathbb{X} 13'50	1°46'28		1722 Nov 27 15:07	30° \mathbb{R} \mathbb{M}	
min. Earth dist.	1721 Dec 11 06:00	18° \mathbb{X} 56'47	0.67725 AU	morning rise	1722 Nov 30 16:50	26° \mathbb{M} 46'11	
morning rise	1721 Dec 16 07:10	12° \mathbb{X} 54'16		direct	1722 Dec 05 00:23	25° \mathbb{M} 03'22	
direct	1721 Dec 21 05:18	10° \mathbb{X} 48'41			1722 Dec 13 14:19	0° \mathbb{X}	
morning max el	1721 Dec 31 04:07	16° \mathbb{X} 42'34	22°53'10	morning max el	1722 Dec 13 18:38	0° \mathbb{X} 10'47	21°28'35
	1722 Jan 11 02:35	0° \mathbb{Z}		desc. node	1722 Dec 31 00:49	22° \mathbb{X} 45'40	
desc. node	1722 Jan 13 03:46	2° \mathbb{Z} 49'08			1723 Jan 04 21:40	0° \mathbb{Z}	
	1722 Jan 31 04:49	0° \mathbb{A}		morning set	1723 Jan 14 06:19	14° \mathbb{Z} 27'28	
morning set	1722 Feb 03 13:44	5° \mathbb{A} 30'25		max. Earth dist.	1723 Jan 21 04:30	25° \mathbb{Z} 38'24	1.41992 AU
max. Earth dist.	1722 Feb 08 04:13	13° \mathbb{A} 16'01	1.39946 AU		1723 Jan 23 19:26	0° \mathbb{A}	
superior conj	1722 Feb 15 21:58	26° \mathbb{A} 59'22	-1°56'52	superior conj	1723 Jan 28 16:00	8° \mathbb{A} 16'37	-2°04'34
minimum elong	1722 Feb 16 01:21	27° \mathbb{A} 14'53	1°56'40	minimum elong	1723 Jan 28 16:13	8° \mathbb{A} 17'35	2°04'34
	1722 Feb 17 13:14	0° \mathbb{H}		evening rise	1723 Feb 08 17:23	28° \mathbb{A} 02'32	
evening rise	1722 Feb 25 15:16	15° \mathbb{H} 16'27			1723 Feb 09 19:09	0° \mathbb{H}	
asc. node	1722 Mar 03 15:28	26° \mathbb{H} 29'24		asc. node	1723 Feb 18 12:31	15° \mathbb{H} 16'33	
	1722 Mar 05 15:40	0° \mathbb{Y}		evening max el	1723 Feb 25 05:58	24° \mathbb{H} 13'18	18°09'26
evening max el	1722 Mar 13 20:20	11° \mathbb{Y} 18'14	18°28'07	retrograde	1723 Mar 04 00:38	27° \mathbb{H} 39'33	
retrograde	1722 Mar 21 08:57	15° \mathbb{Y} 00'34		evening set	1723 Mar 06 15:42	27° \mathbb{H} 09'02	
evening set	1722 Mar 23 18:27	14° \mathbb{Y} 39'11		inferior conj	1723 Mar 13 09:32	22° \mathbb{H} 16'28	3°28'21
inferior conj	1722 Mar 31 04:24	10° \mathbb{Y} 07'20	2°46'00	minimum elong	1723 Mar 13 11:54	22° \mathbb{H} 10'56	3°28'03
minimum elong	1722 Mar 31 08:20	9° \mathbb{Y} 59'26	2°45'03	min. Earth dist.	1723 Mar 16 16:03	19° \mathbb{H} 14'54	0.60601 AU
min. Earth dist.	1722 Apr 03 14:50	7° \mathbb{Y} 23'07	0.58470 AU	morning rise	1723 Mar 20 06:07	16° \mathbb{H} 28'16	
morning rise	1722 Apr 07 19:21	4° \mathbb{Y} 40'01		direct	1723 Mar 26 22:53	14° \mathbb{H} 18'05	
desc. node	1722 Apr 11 02:55	3° \mathbb{Y} 25'19		desc. node	1723 Mar 28 23:58	14° \mathbb{H} 29'38	
direct	1722 Apr 13 19:43	3° \mathbb{Y} 06'19		morning max el	1723 Apr 10 05:07	22° \mathbb{H} 10'14	27°38'26
morning max el	1722 Apr 28 04:52	10° \mathbb{Y} 47'05	26°51'24		1723 Apr 17 02:34	0° \mathbb{Y}	
	1722 May 13 01:00	0° \mathbb{B}			1723 May 06 01:44	0° \mathbb{B}	
morning set	1722 May 28 01:42	27° \mathbb{B} 46'09		morning set	1723 May 12 08:26	12° \mathbb{B} 24'12	
	1722 May 29 03:04	0° \mathbb{I}		asc. node	1723 May 17 11:49	23° \mathbb{B} 19'57	
asc. node	1722 May 30 14:46	3° \mathbb{I} 10'57		max. Earth dist.	1723 May 18 14:06	25° \mathbb{B} 43'11	1.32264 AU
superior conj	1722 Jun 04 02:45	13° \mathbb{I} 01'03	0°45'59	superior conj	1723 May 19 14:05	27° \mathbb{B} 54'32	0°22'00
minimum elong	1722 Jun 04 00:54	12° \mathbb{I} 50'49	0°45'37	minimum elong	1723 May 19 13:06	27° \mathbb{B} 49'09	0°21'47
max. Earth dist.	1722 Jun 04 02:19	12° \mathbb{I} 58'38	1.32231 AU		1723 May 20 12:57	0° \mathbb{I}	
evening rise	1722 Jun 11 00:18	27° \mathbb{I} 58'13		evening rise	1723 May 26 10:56	12° \mathbb{I} 50'26	
	1722 Jun 11 23:36	0° \mathbb{E}			1723 Jun 04 03:14	0° \mathbb{E}	
	1722 Jun 28 19:45	0° \mathbb{O}		evening max el	1723 Jun 22 10:14	25° \mathbb{E} 38'06	25°22'00
desc. node	1722 Jul 08 02:12	11° \mathbb{O} 50'12		desc. node	1723 Jun 24 23:13	27° \mathbb{E} 53'00	
evening max el	1722 Jul 10 15:20	14° \mathbb{O} 25'11	26°33'51		1723 Jun 27 21:40	0° \mathbb{O}	
retrograde	1722 Jul 24 14:45	21° \mathbb{O} 38'13		retrograde	1723 Jul 06 10:42	2° \mathbb{O} 46'22	
evening set	1722 Jul 31 07:31	19° \mathbb{O} 44'34		evening set	1723 Jul 12 02:51	1° \mathbb{O} 31'25	
min. Earth dist.	1722 Aug 04 04:43	17° \mathbb{O} 08'12	0.59955 AU		1723 Jul 15 01:21	30° \mathbb{R} \mathbb{E}	
inferior conj	1722 Aug 07 12:04	14° \mathbb{O} 29'52	-4°43'59	min. Earth dist.	1723 Jul 16 22:13	28° \mathbb{E} 48'42	0.57920 AU
minimum elong	1722 Aug 07 15:40	14° \mathbb{O} 22'38	4°43'33	inferior conj	1723 Jul 20 01:39	26° \mathbb{E} 38'02	-4°56'21
morning rise	1722 Aug 15 01:52	9° \mathbb{O} 51'57		minimum elong	1723 Jul 20 01:10	26° \mathbb{E} 38'54	4°56'20
direct	1722 Aug 17 12:29	9° \mathbb{O} 30'07		morning rise	1723 Jul 28 02:00	22° \mathbb{E} 22'25	
morning max el	1722 Aug 25 01:26	13° \mathbb{O} 09'58	18°14'23	direct	1723 Jul 30 14:58	22° \mathbb{E} 02'46	
asc. node	1722 Aug 26 14:00	14° \mathbb{O} 45'48		morning max el	1723 Aug 08 05:24	26° \mathbb{E} 05'51	18°54'54
	1722 Sep 05 10:48	0° \mathbb{M}			1723 Aug 11 17:05	0° \mathbb{O}	
morning set	1722 Sep 09 23:24	8° \mathbb{M} 26'42		asc. node	1723 Aug 13 11:04	2° \mathbb{O} 23'34	
				morning set	1723 Aug 24 19:48	22° \mathbb{O} 36'03	

	1723 Aug 28 13:56	0°♎		direct	1724 Jul 10 22:25	3°♊44'16	
				morning max el	1724 Jul 20 23:14	8°♊23'25	19°56'49
superior conj	1723 Sep 02 06:54	9°♎08'26	1°42'00	asc. node	1724 Jul 30 08:06	20°♊47'55	
minimum elong	1723 Sep 02 08:45	9°♎17'14	1°41'54		1724 Aug 04 09:25	0°♎	
max. Earth dist.	1723 Sep 09 03:56	21°♎51'51	1.38980 AU	morning set	1724 Aug 07 23:20	7°♎06'39	
evening rise	1723 Sep 13 01:33	28°♎41'57					
	1723 Sep 13 19:49	0°♎		superior conj	1724 Aug 15 18:36	22°♎57'03	1°45'57
desc. node	1723 Sep 20 22:34	11°♎41'37		minimum elong	1724 Aug 15 18:37	22°♎57'07	1°45'56
	1723 Oct 03 04:55	0°♎			1724 Aug 19 08:37	0°♎	
evening max el	1723 Oct 18 12:06	18°♎49'16	24°26'30	max. Earth dist.	1724 Aug 21 08:42	3°♎49'56	1.36996 AU
retrograde	1723 Oct 29 20:01	25°♎26'47		evening rise	1724 Aug 25 04:52	10°♎56'19	
evening set	1723 Nov 04 06:26	23°♎10'15			1724 Sep 05 11:09	0°♎	
min. Earth dist.	1723 Nov 08 22:42	17°♎48'32	0.67536 AU	desc. node	1724 Sep 06 19:36	2°♎07'11	
asc. node	1723 Nov 09 10:17	17°♎09'45			1724 Sep 27 13:59	0°♎	
inferior conj	1723 Nov 09 17:07	16°♎46'48	0°05'54	evening max el	1724 Sep 30 00:08	2°♎29'09	25°39'33
minimum elong	1723 Nov 09 16:59	16°♎47'18	0°05'51	retrograde	1724 Oct 12 06:05	9°♎29'47	
transit middle	1723 Nov 09 16:59	16°♎47'18	0°05'51	evening set	1724 Oct 18 06:53	6°♎58'26	
transit begin	1723 Nov 09 14:25	16°♎55'52		min. Earth dist.	1724 Oct 22 15:23	2°♎12'04	0.66945 AU
transit end	1723 Nov 09 19:32	16°♎38'44		inferior conj	1724 Oct 23 20:42	0°♎38'30	-0°50'23
morning rise	1723 Nov 15 03:34	10°♎43'19		minimum elong	1724 Oct 23 22:00	0°♎34'21	0°49'49
direct	1723 Nov 18 21:59	9°♎21'56			1724 Oct 24 08:48	30°♎♎	
morning max el	1723 Nov 26 16:24	13°♎49'23	20°14'14	asc. node	1724 Oct 26 07:19	27°♎39'21	
	1723 Dec 09 04:05	0°♎		morning rise	1724 Oct 29 13:22	24°♎43'18	
desc. node	1723 Dec 17 21:50	13°♎01'42		direct	1724 Nov 01 20:36	23°♎40'26	
morning set	1723 Dec 24 03:35	22°♎35'30		morning max el	1724 Nov 08 21:53	27°♎38'07	19°13'57
	1723 Dec 28 21:41	0°♎			1724 Nov 11 01:36	0°♎	
max. Earth dist.	1724 Jan 03 12:28	8°♎54'24	1.43670 AU		1724 Dec 01 12:28	0°♎	
				morning set	1724 Dec 02 05:50	1°♎07'34	
superior conj	1724 Jan 09 08:31	18°♎23'01	-1°57'03	desc. node	1724 Dec 03 18:53	3°♎31'45	
minimum elong	1724 Jan 09 03:28	18°♎02'15	1°56'47	max. Earth dist.	1724 Dec 16 03:32	22°♎52'49	1.44760 AU
	1724 Jan 16 07:03	0°♎					
evening rise	1724 Jan 22 02:26	9°♎59'45		superior conj	1724 Dec 18 23:43	27°♎22'35	-1°30'43
	1724 Feb 02 23:59	0°♎		minimum elong	1724 Dec 18 14:59	26°♎47'57	1°29'52
asc. node	1724 Feb 05 09:34	3°♎26'28			1724 Dec 20 15:18	0°♎	
evening max el	1724 Feb 08 18:19	7°♎25'35	18°10'09	evening rise	1725 Jan 02 14:19	21°♎01'50	
retrograde	1724 Feb 15 05:36	10°♎50'15			1725 Jan 08 00:34	0°♎	
evening set	1724 Feb 18 01:51	10°♎09'20		asc. node	1725 Jan 22 06:36	20°♎48'06	
inferior conj	1724 Feb 24 07:20	4°♎56'25	3°43'55	evening max el	1725 Jan 22 06:33	20°♎48'00	18°29'29
minimum elong	1724 Feb 24 07:40	4°♎55'31	3°43'55	retrograde	1725 Jan 28 19:37	24°♎23'41	
min. Earth dist.	1724 Feb 27 01:34	2°♎02'05	0.62672 AU	evening set	1725 Jan 31 21:13	23°♎31'29	
	1724 Feb 29 04:56	30°♎♎		inferior conj	1725 Feb 06 17:46	17°♎59'41	3°39'37
morning rise	1724 Mar 01 12:23	28°♎56'01		minimum elong	1725 Feb 06 16:28	18°♎03'29	3°39'30
direct	1724 Mar 08 11:22	26°♎18'30		min. Earth dist.	1725 Feb 08 20:35	15°♎31'02	0.64468 AU
desc. node	1724 Mar 14 21:01	28°♎12'31		morning rise	1725 Feb 12 11:12	11°♎52'15	
	1724 Mar 17 14:47	0°♎		direct	1725 Feb 19 07:17	9°♎01'41	
morning max el	1724 Mar 22 10:47	4°♎13'47	27°48'24	desc. node	1725 Mar 01 18:02	14°♎00'35	
	1724 Apr 10 17:32	0°♎		morning max el	1725 Mar 04 19:51	16°♎52'01	27°22'40
morning set	1724 Apr 25 09:34	26°♎42'14			1725 Mar 15 18:02	0°♎	
	1724 Apr 27 00:20	0°♎			1725 Apr 03 12:43	0°♎	
max. Earth dist.	1724 Apr 30 21:50	8°♎11'31	1.32701 AU	morning set	1725 Apr 09 02:27	10°♎31'53	
				max. Earth dist.	1725 Apr 13 21:45	20°♎12'22	1.33566 AU
superior conj	1724 May 02 23:10	12°♎37'08	-0°04'16				
minimum elong	1724 May 02 23:23	12°♎38'16	0°04'14	superior conj	1725 Apr 17 04:09	27°♎02'50	-0°31'51
behind sun begin	1724 May 02 18:21	12°♎11'00		minimum elong	1725 Apr 17 05:44	27°♎11'15	0°31'31
behind sun end	1724 May 03 04:25	13°♎05'33			1725 Apr 18 13:29	0°♎	
asc. node	1724 May 03 08:51	13°♎29'37		asc. node	1725 Apr 20 05:53	3°♎35'49	
evening rise	1724 May 09 22:46	27°♎42'24		evening rise	1725 Apr 24 09:57	12°♎27'53	
	1724 May 11 00:54	0°♎			1725 May 03 10:05	0°♎	
	1724 May 28 10:56	0°♎		evening max el	1725 May 15 16:24	16°♎47'37	22°14'51
evening max el	1724 Jun 03 00:28	6°♎16'23	23°50'39	retrograde	1725 May 28 13:28	23°♎09'15	
desc. node	1724 Jun 10 20:15	11°♎50'41		desc. node	1725 May 28 17:15	23°♎09'12	
retrograde	1724 Jun 16 18:17	13°♎10'07		evening set	1725 May 31 10:35	22°♎50'55	
evening set	1724 Jun 20 23:51	12°♎30'40		min. Earth dist.	1725 Jun 08 22:40	19°♎11'52	0.55139 AU
min. Earth dist.	1724 Jun 27 11:09	9°♎26'03	0.56203 AU	inferior conj	1725 Jun 09 19:08	18°♎43'03	-3°17'12
inferior conj	1724 Jun 29 18:57	8°♎01'08	-4°30'34	minimum elong	1725 Jun 09 11:22	18°♎54'00	3°14'59
minimum elong	1724 Jun 29 13:13	8°♎09'55	4°29'41	morning rise	1725 Jun 18 13:58	14°♎50'41	
morning rise	1724 Jul 08 05:13	4°♎03'08		direct	1725 Jun 21 13:34	14°♎30'40	

morning max el	1725 Jul 03 05:36	19° Π 57'09	21°18'58	morning rise	1726 May 29 11:11	24° \mathcal{B} 58'45	
	1725 Jul 11 10:11	0° \mathcal{B}		direct	1726 Jun 01 23:03	24° \mathcal{B} 32'27	
asc. node	1725 Jul 17 05:08	9° \mathcal{B} 47'50			1726 Jun 14 03:35	0° Π	
morning set	1725 Jul 23 07:30	21° \mathcal{B} 51'44		morning max el	1726 Jun 15 02:03	0° Π 50'51	22°56'16
	1725 Jul 27 04:54	0° Ω		asc. node	1726 Jul 04 02:10	29° Π 14'27	
					1726 Jul 04 11:19	0° \mathcal{B}	
superior conj	1725 Jul 30 16:22	7° Ω 16'15	1°42'15	morning set	1726 Jul 07 18:23	6° \mathcal{B} 45'39	
minimum elong	1725 Jul 30 15:01	7° Ω 09'13	1°42'10				
max. Earth dist.	1725 Aug 03 19:37	15° Ω 42'00	1.35265 AU	superior conj	1726 Jul 14 21:00	21° \mathcal{B} 56'26	1°32'23
evening rise	1725 Aug 08 02:39	24° Ω 03'58		minimum elong	1726 Jul 14 18:50	21° \mathcal{B} 44'54	1°32'11
	1725 Aug 11 07:16	0° \mathcal{M}		max. Earth dist.	1726 Jul 17 15:31	27° \mathcal{B} 47'52	1.33900 AU
desc. node	1725 Aug 24 16:36	22° \mathcal{M} 14'56			1726 Jul 18 16:55	0° Ω	
	1725 Aug 30 01:08	0° \mathcal{B}		evening rise	1726 Jul 22 14:22	7° Ω 52'50	
evening max el	1725 Sep 12 12:16	16° \mathcal{B} 06'28	26°38'30		1726 Aug 03 19:38	0° \mathcal{M}	
retrograde	1725 Sep 25 10:57	23° \mathcal{B} 20'19		desc. node	1726 Aug 11 13:36	11° \mathcal{M} 57'04	
evening set	1725 Oct 02 01:11	20° \mathcal{B} 38'44		evening max el	1726 Aug 26 00:09	29° \mathcal{M} 32'10	27°15'55
min. Earth dist.	1725 Oct 06 02:23	16° \mathcal{B} 29'04	0.66006 AU		1726 Aug 26 11:57	0° \mathcal{B}	
inferior conj	1725 Oct 07 19:30	14° \mathcal{B} 26'32	-1°48'23	retrograde	1726 Sep 08 10:23	6° \mathcal{B} 50'59	
minimum elong	1725 Oct 07 22:22	14° \mathcal{B} 17'57	1°47'14	evening set	1726 Sep 15 10:53	4° \mathcal{B} 07'06	
asc. node	1725 Oct 13 04:21	9° \mathcal{B} 06'15		min. Earth dist.	1726 Sep 19 05:32	0° \mathcal{B} 33'27	0.64707 AU
morning rise	1725 Oct 13 20:06	8° \mathcal{B} 42'39			1726 Sep 19 17:58	30° \mathcal{R} \mathcal{M}	
direct	1725 Oct 16 18:18	7° \mathcal{B} 54'47		inferior conj	1726 Sep 21 11:17	28° \mathcal{M} 06'42	-2°46'00
morning max el	1725 Oct 23 09:33	11° \mathcal{B} 32'58	18°29'31	minimum elong	1726 Sep 21 15:37	27° \mathcal{M} 54'51	2°44'29
	1725 Nov 05 12:51	0° \mathcal{M}		morning rise	1726 Sep 27 21:18	22° \mathcal{M} 37'15	
morning set	1725 Nov 12 08:55	10° \mathcal{M} 57'23		asc. node	1726 Sep 30 01:23	22° \mathcal{M} 01'50	
desc. node	1725 Nov 20 15:54	24° \mathcal{M} 11'07		direct	1726 Sep 30 12:49	22° \mathcal{M} 00'38	
	1725 Nov 24 08:12	0° \mathcal{A}		morning max el	1726 Oct 07 00:55	25° \mathcal{M} 28'37	18°01'52
					1726 Oct 10 19:50	0° \mathcal{B}	
superior conj	1725 Nov 28 01:07	5° \mathcal{A} 49'51	-0°47'58	morning set	1726 Oct 24 16:58	22° \mathcal{B} 12'40	
minimum elong	1725 Nov 27 19:00	5° \mathcal{A} 25'45	0°47'11		1726 Oct 29 08:56	0° \mathcal{M}	
max. Earth dist.	1725 Nov 28 22:18	7° \mathcal{A} 13'00	1.45138 AU				
	1725 Dec 13 09:54	0° \mathcal{B}		superior conj	1726 Nov 07 10:14	14° \mathcal{M} 45'38	0°00'46
evening rise	1725 Dec 14 02:47	1° \mathcal{B} 06'44		minimum elong	1726 Nov 07 10:20	14° \mathcal{M} 46'02	0°00'45
greatest brilliancy	1725 Dec 23 15:17	16° \mathcal{B} 08'07	-0.8m	behind sun begin	1726 Nov 06 23:49	14° \mathcal{M} 03'50	
	1726 Jan 02 01:41	0° \approx		behind sun end	1726 Nov 07 20:51	15° \mathcal{M} 28'09	
evening max el	1726 Jan 05 16:12	4° \approx 14'56	19°06'22	desc. node	1726 Nov 07 12:57	14° \mathcal{M} 56'30	
asc. node	1726 Jan 09 03:37	7° \approx 07'34		max. Earth dist.	1726 Nov 11 17:07	21° \mathcal{M} 34'56	1.44771 AU
retrograde	1726 Jan 12 14:54	8° \approx 12'21			1726 Nov 17 01:49	0° \mathcal{A}	
evening set	1726 Jan 15 22:47	7° \approx 07'55		evening rise	1726 Nov 23 19:05	10° \mathcal{A} 25'27	
inferior conj	1726 Jan 21 13:16	1° \approx 19'29	3°20'43		1726 Dec 06 15:16	0° \mathcal{B}	
minimum elong	1726 Jan 21 10:59	1° \approx 26'43	3°20'18	greatest brilliancy	1726 Dec 07 18:36	1° \mathcal{B} 41'35	-0.6m
	1726 Jan 22 14:17	30° \mathcal{R} \mathcal{B}		evening max el	1726 Dec 19 21:30	17° \mathcal{B} 44'19	19°59'13
min. Earth dist.	1726 Jan 23 00:49	29° \mathcal{B} 26'53	0.65887 AU	asc. node	1726 Dec 27 00:39	22° \mathcal{B} 10'39	
morning rise	1726 Jan 26 22:55	25° \mathcal{B} 08'02		retrograde	1726 Dec 27 12:34	22° \mathcal{B} 12'01	
direct	1726 Feb 02 09:38	22° \mathcal{B} 18'22		evening set	1726 Dec 31 04:17	20° \mathcal{B} 54'00	
morning max el	1726 Feb 15 05:40	29° \mathcal{B} 52'51	26°27'07	inferior conj	1727 Jan 05 14:59	14° \mathcal{B} 51'48	2°50'52
	1726 Feb 15 08:30	0° \approx		minimum elong	1727 Jan 05 12:21	15° \mathcal{B} 00'39	2°50'09
desc. node	1726 Feb 16 15:05	1° \approx 19'25		min. Earth dist.	1727 Jan 06 12:41	13° \mathcal{B} 39'15	0.66906 AU
	1726 Mar 09 15:59	0° \mathcal{H}		morning rise	1727 Jan 10 20:12	8° \mathcal{B} 38'30	
morning set	1726 Mar 23 07:27	23° \mathcal{H} 41'40		direct	1727 Jan 16 17:51	6° \mathcal{B} 00'44	
	1726 Mar 26 14:21	0° \mathcal{Y}		morning max el	1727 Jan 28 14:34	13° \mathcal{B} 05'13	25°10'43
max. Earth dist.	1726 Mar 27 10:36	1° \mathcal{Y} 39'17	1.34881 AU	desc. node	1727 Feb 03 12:09	19° \mathcal{B} 43'15	
					1727 Feb 11 07:16	0° \approx	
superior conj	1726 Apr 01 02:42	11° \mathcal{Y} 04'02	-0°59'34		1727 Mar 02 10:30	0° \mathcal{H}	
minimum elong	1726 Apr 01 05:40	11° \mathcal{Y} 19'20	0°59'01	morning set	1727 Mar 05 19:44	5° \mathcal{H} 58'12	
asc. node	1726 Apr 07 02:55	23° \mathcal{Y} 34'02		max. Earth dist.	1727 Mar 09 11:59	12° \mathcal{H} 42'00	1.36635 AU
evening rise	1726 Apr 08 18:34	26° \mathcal{Y} 59'48					
	1726 Apr 10 05:42	0° \mathcal{B}		superior conj	1727 Mar 15 16:01	24° \mathcal{H} 33'23	-1°25'38
evening max el	1726 Apr 27 16:56	27° \mathcal{B} 41'07	20°48'09	minimum elong	1727 Mar 15 20:02	24° \mathcal{H} 53'14	1°25'03
	1726 Apr 30 09:42	0° Π			1727 Mar 18 09:32	0° \mathcal{Y}	
retrograde	1726 May 09 02:40	3° Π 13'54		evening rise	1727 Mar 23 22:27	11° \mathcal{Y} 11'55	
evening set	1726 May 11 05:59	3° Π 02'57		asc. node	1727 Mar 24 23:57	13° \mathcal{Y} 19'52	
desc. node	1726 May 15 14:15	1° Π 40'55			1727 Apr 03 01:49	0° \mathcal{B}	
	1726 May 18 21:57	30° \mathcal{R} \mathcal{B}		evening max el	1727 Apr 10 05:16	9° \mathcal{B} 13'16	19°38'15
inferior conj	1726 May 20 12:52	29° \mathcal{B} 05'03	-1°25'59	retrograde	1727 Apr 19 21:27	13° \mathcal{B} 53'19	
minimum elong	1726 May 20 08:48	29° \mathcal{B} 10'51	1°24'30	evening set	1727 Apr 21 22:33	13° \mathcal{B} 41'43	
min. Earth dist.	1726 May 21 11:07	28° \mathcal{B} 33'18	0.54967 AU	inferior conj	1727 Apr 30 14:47	9° \mathcal{B} 38'22	0°31'58

minimum elong	1727 Apr 30 16:10	9°  36'12	0°31'29	min. Earth dist.	1728 Apr 13 18:10	18°  22'38	0.57336 AU
desc. node	1727 May 02 11:18	8°  28'03		desc. node	1728 Apr 18 08:22	15°  40'31	
min. Earth dist.	1727 May 03 01:25	8°  06'07	0.55757 AU	morning rise	1728 Apr 18 12:54	15°  35'30	
morning rise	1727 May 09 07:08	5°  01'30		direct	1728 Apr 24 00:21	14°  22'24	
direct	1727 May 13 16:43	4°  18'09		morning max el	1728 May 08 08:23	21°  52'37	26°09'27
morning max el	1727 May 27 17:00	11°  20'26	24°38'03		1728 May 15 11:25	0° 	
	1727 Jun 10 20:51	0° 			1728 Jun 02 12:26	0° 	
asc. node	1727 Jun 20 23:13	19°  00'00		morning set	1728 Jun 05 17:28	6°  36'35	
morning set	1727 Jun 22 06:14	21°  42'19		asc. node	1728 Jun 06 20:17	8° 	
	1727 Jun 26 02:54	0° 					
superior conj	1727 Jun 29 05:58	6°  48'46	1°17'31	superior conj	1728 Jun 12 17:15	21°  46'33	0°58'32
minimum elong	1727 Jun 29 03:33	6°  35'36	1°17'10	minimum elong	1728 Jun 12 15:04	21°  34'31	0°58'08
max. Earth dist.	1727 Jun 30 19:54	10°  14'18	1.32940 AU	max. Earth dist.	1728 Jun 13 06:08	22°  57'18	1.32381 AU
evening rise	1727 Jul 06 12:06	22°  11'08		evening rise	1728 Jun 16 11:41	0° 	
	1727 Jul 10 10:41	0° 			1728 Jun 19 16:47	6° 	
	1727 Jul 28 16:10	0° 			1728 Jul 01 23:15	0° 	
desc. node	1727 Jul 29 10:36	1°  02'15		desc. node	1728 Jul 15 07:37	19° 	
evening max el	1727 Aug 08 10:12	12°  33'55	27°25'20	evening max el	1728 Jul 20 16:00	24° 	27°02'15
retrograde	1727 Aug 22 03:43	19°  51'44		retrograde	1728 Jul 27 04:14	0° 	
evening set	1727 Aug 29 08:39	17° 		evening set	1728 Aug 03 13:47	2° 	
min. Earth dist.	1727 Sep 01 23:08	14° 	0.63062 AU		1728 Aug 10 14:19	0° 	
inferior conj	1727 Sep 04 17:21	11°  32'14	-3°40'02	min. Earth dist.	1728 Aug 10 15:20	30° 	
minimum elong	1727 Sep 04 22:34	11°  19'23	3°38'34	inferior conj	1728 Aug 14 06:17	27° 	0.61139 AU
morning rise	1727 Sep 11 13:50	6° 		minimum elong	1728 Aug 17 10:27	24° 	-4°25'12
direct	1727 Sep 14 01:17	5° 		morning rise	1728 Aug 17 15:15	24° 	4°24'18
asc. node	1727 Sep 16 22:27	6° 		direct	1728 Aug 24 17:53	19° 	
morning max el	1727 Sep 20 17:01	9°  17'30	17°51'46	asc. node	1728 Aug 27 04:05	19° 	
	1727 Oct 04 10:10	0° 		morning max el	1728 Sep 02 19:30	22° 	
morning set	1727 Oct 07 01:09	4° 			1728 Sep 03 06:48	22° 	18°00'23
					1728 Sep 08 21:22	0° 	
superior conj	1727 Oct 18 18:56	24° 	0°43'58	morning set	1728 Sep 19 03:15	17° 	
minimum elong	1727 Oct 18 22:59	25° 	0°43'26		1728 Sep 25 17:59	0° 	
	1727 Oct 21 21:21	0° 		superior conj	1728 Sep 29 06:40	6° 	1°15'48
desc. node	1727 Oct 25 09:57	5° 		minimum elong	1728 Sep 29 11:08	6° 	1°15'19
max. Earth dist.	1727 Oct 25 09:04	5° 	1.43719 AU	max. Earth dist.	1728 Oct 06 20:31	19° 	1.42117 AU
evening rise	1727 Nov 03 03:07	19° 		desc. node	1728 Oct 11 06:58	26° 	
	1727 Nov 10 00:41	0° 		evening rise	1728 Oct 12 20:15	28° 	
	1727 Dec 01 17:12	0° 			1728 Oct 13 11:34	0° 	
evening max el	1727 Dec 02 21:20	1° 	21°05'30		1728 Nov 02 16:22	0° 	
retrograde	1727 Dec 11 10:16	6° 		evening max el	1728 Nov 14 15:46	14° 	22°21'13
asc. node	1727 Dec 13 21:42	5° 		retrograde	1728 Nov 24 06:09	20° 	
evening set	1727 Dec 15 11:42	4° 		evening set	1728 Nov 28 19:18	18° 	
	1727 Dec 19 18:53	30° 		asc. node	1728 Nov 29 18:46	17° 	
inferior conj	1727 Dec 20 20:30	28° 	2°12'31	inferior conj	1728 Nov 29 18:46	17° 	
minimum elong	1727 Dec 20 18:01	28° 	2°11'41	minimum elong	1728 Dec 04 03:45	12° 	1°27'23
min. Earth dist.	1727 Dec 21 05:52	28° 	0.67533 AU		1728 Dec 04 01:53	12° 	1°26'40
morning rise	1727 Dec 26 00:09	22° 		min. Earth dist.	1728 Dec 04 01:56	12° 	0.67801 AU
direct	1727 Dec 31 07:02	20° 		morning rise	1728 Dec 09 08:20	6° 	
morning max el	1728 Jan 10 23:04	26° 	23°43'50	direct	1728 Dec 14 00:15	4° 	
	1728 Jan 14 07:18	0° 		morning max el	1728 Dec 23 10:15	9° 	22°16'09
desc. node	1728 Jan 21 09:13	8° 		desc. node	1729 Jan 07 06:15	28° 	
	1728 Feb 04 21:32	0° 			1729 Jan 08 05:55	0° 	
morning set	1728 Feb 15 09:14	17° 		morning set	1729 Jan 25 18:17	26° 	
max. Earth dist.	1728 Feb 19 06:57	23° 	1.38705 AU		1729 Jan 27 17:19	0° 	
	1728 Feb 22 17:05	0° 		max. Earth dist.	1729 Jan 31 03:59	5° 	1.40850 AU
superior conj	1728 Feb 26 16:26	7° 	-1°47'30	superior conj	1729 Feb 07 23:07	19° 	-2°01'40
minimum elong	1728 Feb 26 20:33	7° 	1°47'08	minimum elong	1729 Feb 08 01:29	19° 	2°01'36
evening rise	1728 Mar 06 19:02	24° 			1729 Feb 13 20:27	0° 	
	1728 Mar 09 09:31	0° 		evening rise	1729 Feb 18 04:59	8° 	
asc. node	1728 Mar 10 21:00	2° 		asc. node	1729 Feb 25 18:04	21° 	
evening max el	1728 Mar 23 04:21	21° 	18°47'59		1729 Mar 02 23:10	0° 	
retrograde	1728 Mar 31 08:23	25° 		evening max el	1729 Mar 06 11:02	4° 	18°17'45
evening set	1728 Apr 02 14:34	25° 		retrograde	1729 Mar 13 14:23	7° 	
inferior conj	1728 Apr 10 11:19	20° 	2°06'47	evening set	1729 Mar 16 02:30	7° 	
minimum elong	1728 Apr 10 15:17	20° 	2°05'37	inferior conj	1729 Mar 23 05:06	2° 	3°07'41
				minimum elong	1729 Mar 23 08:30	2° 	3°07'02

	1729 Mar 26 04:55	30° K		minimum elong	1730 Mar 05 19:20	14° K 53'10	3°37'39
min. Earth dist.	1729 Mar 26 15:13	29° K 38'55	0.59371 AU	min. Earth dist.	1730 Mar 08 19:38	11° K 55'54	0.61507 AU
morning rise	1729 Mar 30 12:05	26° K 56'18		morning rise	1730 Mar 12 07:22	9° K 02'30	
desc. node	1729 Apr 05 05:25	25° K 07'48		direct	1730 Mar 19 03:49	6° K 39'33	
direct	1729 Apr 05 20:44	25° K 06'42		desc. node	1730 Mar 23 02:28	7° K 22'43	
	1729 Apr 17 00:09	0° Y		morning max el	1730 Apr 02 07:45	14° K 33'32	27°47'17
morning max el	1729 Apr 20 04:49	2° Y 52'23	27°15'47		1730 Apr 14 19:27	0° Y	
	1729 May 09 21:57	0° B			1730 May 02 08:49	0° B	
morning set	1729 May 21 02:20	21° B 21'54		morning set	1730 May 05 06:58	5° B 52'07	
asc. node	1729 May 24 17:20	29° B 04'56		max. Earth dist.	1730 May 11 05:17	18° B 25'05	1.32406 AU
	1729 May 25 03:29	0° II		asc. node	1730 May 11 14:22	19° B 14'27	
superior conj	1729 May 28 05:01	6° II 42'40	0°36'09	superior conj	1730 May 12 15:34	21° B 31'43	0°11'05
minimum elong	1729 May 28 03:29	6° II 34'15	0°35'49	minimum elong	1730 May 12 15:03	21° B 28'55	0°10'58
max. Earth dist.	1729 May 27 18:35	5° II 45'18	1.32203 AU	behind sun begin	1730 May 12 11:20	21° B 08'38	
evening rise	1729 Jun 04 01:50	21° II 38'08		behind sun end	1730 May 12 18:46	21° B 49'12	
	1729 Jun 08 03:40	0° E			1730 May 16 12:35	0° II	
	1729 Jun 26 14:37	0° O		evening rise	1730 May 19 13:11	6° II 30'38	
desc. node	1729 Jul 02 04:39	6° O 13'01			1730 May 31 21:46	0° E	
evening max el	1729 Jul 02 15:01	6° O 37'59	26°06'28	evening max el	1730 Jun 14 07:08	17° E 32'18	24°44'29
retrograde	1729 Jul 16 15:01	13° O 48'38		desc. node	1730 Jun 19 01:41	21° E 26'39	
evening set	1729 Jul 22 23:04	12° O 11'04		retrograde	1730 Jun 28 05:46	24° E 36'18	
min. Earth dist.	1729 Jul 27 03:39	9° O 34'19	0.59076 AU	evening set	1730 Jul 03 08:11	23° E 37'21	
inferior conj	1729 Jul 30 10:55	7° O 05'34	-4°52'59	min. Earth dist.	1730 Jul 08 18:21	20° E 47'07	0.57131 AU
minimum elong	1729 Jul 30 13:04	7° O 01'29	4°52'51	inferior conj	1730 Jul 11 15:45	18° E 53'58	-4°50'51
morning rise	1729 Aug 07 05:14	2° O 37'08		minimum elong	1730 Jul 11 12:57	18° E 58'32	4°50'39
direct	1729 Aug 09 16:48	2° O 16'15		morning rise	1730 Jul 19 20:27	14° E 47'12	
morning max el	1729 Aug 17 15:10	6° O 04'19	18°29'04	direct	1730 Jul 22 11:08	14° E 28'02	
asc. node	1729 Aug 20 16:33	9° O 29'28		morning max el	1730 Jul 31 15:04	18° E 44'22	19°18'48
	1729 Sep 01 20:05	0° P		asc. node	1730 Aug 07 13:35	27° E 28'02	
morning set	1729 Sep 02 18:08	1° P 45'52			1730 Aug 09 03:21	0° O	
superior conj	1729 Sep 11 17:24	18° P 51'14	1°35'33	morning set	1730 Aug 17 17:50	16° O 04'40	
minimum elong	1729 Sep 11 20:22	19° P 05'01	1°35'20		1730 Aug 24 17:28	0° P	
	1729 Sep 17 21:30	0° A		superior conj	1730 Aug 25 21:25	2° P 16'47	1°44'43
max. Earth dist.	1729 Sep 19 03:04	2° A 09'04	1.40160 AU	minimum elong	1730 Aug 25 22:27	2° P 21'47	1°44'41
evening rise	1729 Sep 23 10:39	9° A 29'28		max. Earth dist.	1730 Sep 01 06:38	14° P 21'16	1.38106 AU
desc. node	1729 Sep 28 03:59	17° A 11'48		evening rise	1730 Sep 05 01:10	21° P 07'03	
	1729 Oct 06 11:16	0° M			1730 Sep 10 06:02	0° A	
evening max el	1729 Oct 28 06:00	28° M 21'00	23°41'07	desc. node	1730 Sep 15 00:59	7° A 44'35	
	1729 Oct 29 23:35	0° J			1730 Sep 30 10:56	0° M	
retrograde	1729 Nov 07 23:01	4° J 40'03		evening max el	1730 Oct 10 18:01	11° M 58'23	24°58'48
evening set	1729 Nov 13 01:27	2° J 32'50		retrograde	1730 Oct 22 11:52	18° M 47'29	
	1729 Nov 15 12:37	30° K M		evening set	1730 Oct 28 04:30	16° M 23'57	
asc. node	1729 Nov 16 15:48	28° M 34'43		min. Earth dist.	1730 Nov 01 17:16	11° M 17'18	0.67322 AU
inferior conj	1729 Nov 18 10:57	26° M 09'31	0°36'54	inferior conj	1730 Nov 02 16:21	10° M 01'21	-0°17'40
minimum elong	1729 Nov 18 10:05	26° M 12'28	0°36'33	minimum elong	1730 Nov 02 16:47	9° M 59'54	0°17'28
min. Earth dist.	1729 Nov 17 22:30	26° M 51'59	0.67728 AU	asc. node	1730 Nov 03 12:49	8° M 54'27	
morning rise	1729 Nov 23 18:42	20° M 02'53		morning rise	1730 Nov 08 05:14	4° M 01'16	
direct	1729 Nov 27 20:31	18° M 29'28		direct	1730 Nov 11 18:34	2° M 48'23	
morning max el	1729 Dec 06 03:44	23° M 18'13	20°55'28	morning max el	1730 Nov 19 04:58	7° M 01'57	19°46'49
	1729 Dec 11 21:46	0° J		greatest brilliancy	1730 Dec 02 15:49	24° M 52'28	-0.7m
desc. node	1729 Dec 25 03:16	18° J 41'10			1730 Dec 06 01:47	0° J	
	1730 Jan 01 14:30	0° B		desc. node	1730 Dec 12 00:16	9° J 03'39	
morning set	1730 Jan 05 00:32	5° B 17'57		morning set	1730 Dec 14 20:42	13° J 27'19	
max. Earth dist.	1730 Jan 13 08:12	18° B 33'16	1.42771 AU		1730 Dec 25 10:50	0° B	
				max. Earth dist.	1730 Dec 26 19:25	2° B 09'15	1.44214 AU
superior conj	1730 Jan 20 06:46	0° \approx 04'23	-2°03'32	superior conj	1730 Dec 31 11:54	9° B 40'01	-1°48'14
minimum elong	1730 Jan 20 04:54	29° B 56'27	2°03'29	minimum elong	1730 Dec 31 04:45	9° B 11'07	1°47'42
	1730 Jan 20 05:44	0° \approx			1731 Jan 12 18:26	0° \approx	
evening rise	1730 Feb 01 00:26	20° \approx 34'46		evening rise	1731 Jan 14 00:57	2° \approx 09'23	
	1730 Feb 06 07:39	0° K		asc. node	1731 Jan 30 12:08	28° \approx 16'23	
asc. node	1730 Feb 12 15:07	10° K 25'36			1731 Feb 01 00:32	0° K	
evening max el	1730 Feb 17 22:08	17° K 09'21	18°07'18	evening max el	1731 Feb 01 10:40	0° K 26'10	18°16'05
retrograde	1730 Feb 24 12:28	20° K 33'27		retrograde	1731 Feb 07 21:52	3° K 54'30	
evening set	1730 Feb 27 05:46	19° K 58'35		evening set	1731 Feb 10 20:12	3° K 09'02	
inferior conj	1730 Mar 05 17:50	14° K 56'52	3°37'46				

	1731 Feb 14 20:08	30° \approx			1732 Jan 05 19:32	0° \approx	
inferior conj	1731 Feb 16 21:30	27° \approx 47'49	3°44'10	evening max el	1732 Jan 15 22:05	13° \approx 51'09	18°43'08
minimum elong	1731 Feb 16 21:05	27° \approx 49'00	3°44'09	asc. node	1732 Jan 17 09:09	15° \approx 13'24	
min. Earth dist.	1731 Feb 19 09:20	25° \approx 02'26	0.63477 AU	retrograde	1732 Jan 22 14:27	17° \approx 34'54	
morning rise	1731 Feb 22 21:06	21° \approx 43'36		evening set	1732 Jan 25 18:31	16° \approx 37'47	
direct	1731 Mar 01 19:39	18° \approx 58'39		inferior conj	1732 Jan 31 12:12	10° \approx 58'53	3°33'07
desc. node	1731 Mar 09 23:29	22° \approx 03'02		minimum elong	1732 Jan 31 10:24	11° \approx 04'20	3°32'53
morning max el	1731 Mar 15 15:25	26° \approx 53'50	27°41'32	min. Earth dist.	1732 Feb 02 08:32	8° \approx 44'20	0.65123 AU
	1731 Mar 18 13:36	0° \approx		morning rise	1732 Feb 06 01:52	4° \approx 49'21	
	1731 Apr 08 10:20	0° \approx		direct	1732 Feb 12 18:42	1° \approx 57'12	
morning set	1731 Apr 19 05:00	19° \approx 59'37		desc. node	1732 Feb 24 20:30	8° \approx 33'15	
	1731 Apr 24 01:59	0° \approx		morning max el	1732 Feb 26 01:00	9° \approx 42'55	27°02'04
max. Earth dist.	1731 Apr 24 10:09	0° \approx 43'00	1.33011 AU		1732 Mar 13 00:04	0° \approx	
					1732 Mar 30 20:25	0° \approx	
superior conj	1731 Apr 26 23:08	6° \approx 07'57	-0°15'53	morning set	1732 Apr 01 17:20	3° \approx 34'00	
minimum elong	1731 Apr 26 23:55	6° \approx 12'07	0°15'43	max. Earth dist.	1732 Apr 06 05:21	12° \approx 28'12	1.34064 AU
behind sun begin	1731 Apr 26 23:05	6° \approx 07'36					
behind sun end	1731 Apr 27 00:46	6° \approx 16'39		superior conj	1732 Apr 10 01:42	20° \approx 24'21	-0°43'42
asc. node	1731 Apr 28 11:25	9° \approx 23'17		minimum elong	1732 Apr 10 03:54	20° \approx 35'50	0°43'15
evening rise	1731 May 04 00:57	21° \approx 20'32		asc. node	1732 Apr 14 08:27	29° \approx 26'43	
	1731 May 08 06:07	0° \approx			1732 Apr 14 14:44	0° \approx	
evening max el	1731 May 26 21:01	28° \approx 03'33	23°09'31	evening rise	1732 Apr 17 11:17	6° \approx 00'56	
	1731 May 29 00:55	0° \approx			1732 Apr 30 13:36	0° \approx	
desc. node	1731 Jun 05 22:42	4° \approx 20'32		evening max el	1732 May 07 16:06	8° \approx 42'03	21°36'21
retrograde	1731 Jun 09 08:25	4° \approx 46'57		retrograde	1732 May 19 23:48	14° \approx 44'01	
evening set	1731 Jun 12 22:48	4° \approx 18'32		evening set	1732 May 22 10:57	14° \approx 30'18	
min. Earth dist.	1731 Jun 20 06:34	1° \approx 00'37	0.55644 AU	desc. node	1732 May 22 19:44	14° \approx 26'01	
inferior conj	1731 Jun 22 01:01	29° \approx 15'34	-4°05'18	inferior conj	1732 May 31 20:51	10° \approx 29'01	-2°33'11
minimum elong	1731 Jun 21 17:45	0° \approx 09'14	4°03'45	minimum elong	1732 May 31 14:04	10° \approx 38'31	2°30'57
	1731 Jun 22 00:02	30° \approx		min. Earth dist.	1732 May 31 18:40	10° \approx 32'04	0.54944 AU
morning rise	1731 Jun 30 15:15	26° \approx 10'53		morning rise	1732 Jun 09 18:01	6° \approx 32'49	
direct	1731 Jul 03 10:27	25° \approx 46'15		direct	1732 Jun 12 21:50	6° \approx 10'57	
	1731 Jul 13 08:11	0° \approx		morning max el	1732 Jun 25 06:01	12° \approx 00'25	21°58'56
morning max el	1731 Jul 14 04:14	0° \approx 44'40	20°29'34		1732 Jul 08 10:02	0° \approx	
asc. node	1731 Jul 25 10:37	16° \approx 09'00		asc. node	1732 Jul 11 07:40	5° \approx 21'15	
morning set	1731 Aug 01 23:36	0° \approx 42'18		morning set	1732 Jul 16 09:08	15° \approx 31'35	
	1731 Aug 01 15:19	0° \approx			1732 Jul 23 05:33	0° \approx	
superior conj	1731 Aug 09 13:53	16° \approx 20'15	1°45'13	superior conj	1732 Jul 23 14:55	0° \approx 49'18	1°38'44
minimum elong	1731 Aug 09 13:15	16° \approx 17'02	1°45'12	minimum elong	1732 Jul 23 13:09	0° \approx 40'00	1°38'37
max. Earth dist.	1731 Aug 14 13:00	26° \approx 12'05	1.36212 AU	max. Earth dist.	1732 Jul 27 03:33	8° \approx 07'51	1.34638 AU
	1731 Aug 16 12:36	0° \approx		evening rise	1732 Jul 31 17:14	17° \approx 12'55	
evening rise	1731 Aug 18 12:57	3° \approx 46'03			1732 Aug 07 15:41	0° \approx	
desc. node	1731 Sep 01 22:01	28° \approx 03'34		desc. node	1732 Aug 18 19:03	18° \approx 01'21	
	1731 Sep 03 04:33	0° \approx			1732 Aug 27 12:36	0° \approx	
evening max el	1731 Sep 23 05:54	25° \approx 37'43	26°06'50	evening max el	1732 Sep 04 18:14	9° \approx 11'46	26°57'33
	1731 Sep 28 11:10	0° \approx		retrograde	1732 Sep 17 22:38	16° \approx 28'30	
retrograde	1731 Oct 05 20:00	2° \approx 46'04		evening set	1732 Sep 24 17:35	13° \approx 45'06	
evening set	1731 Oct 12 02:37	0° \approx 09'35		min. Earth dist.	1732 Sep 28 15:59	9° \approx 50'40	0.65494 AU
	1731 Oct 12 07:06	30° \approx		inferior conj	1732 Sep 30 14:16	7° \approx 37'20	-2°13'02
min. Earth dist.	1731 Oct 16 07:54	25° \approx 38'37	0.66582 AU	minimum elong	1732 Sep 30 17:47	7° \approx 27'09	2°11'42
inferior conj	1731 Oct 17 18:08	23° \approx 52'05	-1°14'52	morning rise	1732 Oct 06 18:41	1° \approx 58'51	
minimum elong	1731 Oct 17 20:06	23° \approx 45'59	1°14'03	asc. node	1732 Oct 07 06:52	1° \approx 44'50	
asc. node	1731 Oct 21 09:50	19° \approx 42'53		direct	1732 Oct 09 13:43	1° \approx 16'10	
morning rise	1731 Oct 23 13:59	18° \approx 01'17		morning max el	1732 Oct 16 02:50	4° \approx 49'13	18°15'36
direct	1731 Oct 26 16:59	17° \approx 05'23			1732 Nov 02 04:43	0° \approx	
morning max el	1731 Nov 02 13:21	20° \approx 54'00	18°53'02	morning set	1732 Nov 03 23:37	2° \approx 55'22	
	1731 Nov 09 18:02	0° \approx		desc. node	1732 Nov 14 18:20	20° \approx 20'10	
morning set	1731 Nov 24 07:57	22° \approx 28'14					
desc. node	1731 Nov 28 21:17	29° \approx 38'01		superior conj	1732 Nov 18 21:05	26° \approx 51'48	-0°27'17
	1731 Nov 29 02:53	0° \approx		minimum elong	1732 Nov 18 17:33	26° \approx 37'51	0°26'48
max. Earth dist.	1731 Dec 09 11:49	16° \approx 16'57	1.45009 AU		1732 Nov 20 20:50	0° \approx	
				max. Earth dist.	1732 Nov 21 06:55	0° \approx 39'39	1.45071 AU
superior conj	1731 Dec 10 19:04	18° \approx 19'52	-1°14'07	evening rise	1732 Dec 05 05:52	22° \approx 29'12	
minimum elong	1731 Dec 10 10:38	17° \approx 46'37	1°13'11		1732 Dec 10 01:31	0° \approx	
	1731 Dec 18 04:01	0° \approx		greatest brilliancy	1732 Dec 16 22:20	10° \approx 36'29	-0.7m
evening rise	1731 Dec 26 02:54	12° \approx 46'32		evening max el	1732 Dec 29 06:12	27° \approx 20'11	19°27'07

	1733 Jan 01 07:56	0°♊	retrograde	1733 Dec 20 08:52	15°♊32'07	
asc. node	1733 Jan 03 06:10	1°♊02'37	asc. node	1733 Dec 21 03:13	15°♊28'50	
retrograde	1733 Jan 05 10:58	1°♊29'09	evening set	1733 Dec 24 04:36	14°♊07'35	
evening set	1733 Jan 08 22:03	0°♊19'04	inferior conj	1733 Dec 29 14:16	8°♊00'26	2°35'30
	1733 Jan 09 08:43	30°♊♊	minimum elong	1733 Dec 29 11:38	8°♊09'23	2°34'44
inferior conj	1733 Jan 14 10:41	24°♊24'39 3°09'13	min. Earth dist.	1733 Dec 30 06:28	7°♊05'28	0.67217 AU
minimum elong	1733 Jan 14 08:10	24°♊32'48 3°08'40	morning rise	1734 Jan 03 18:30	1°♊47'15	
min. Earth dist.	1733 Jan 15 16:10	22°♊48'51 0.66372 AU		1734 Jan 06 08:31	30°♊♊	
morning rise	1733 Jan 19 18:05	18°♊12'26	direct	1734 Jan 09 09:59	29°♊17'12	
direct	1733 Jan 25 23:44	15°♊26'32		1734 Jan 12 17:06	0°♊	
morning max el	1733 Feb 07 10:19	22°♊49'25 25°56'35	morning max el	1734 Jan 20 18:50	6°♊04'00	24°34'36
desc. node	1733 Feb 10 17:33	26°♊22'35	desc. node	1734 Jan 28 14:36	15°♊07'28	
	1733 Feb 13 18:44	0°♊		1734 Feb 08 08:12	0°♊	
	1733 Mar 06 07:25	0°♊	morning set	1734 Feb 25 19:18	28°♊12'03	
morning set	1733 Mar 15 15:56	16°♊23'25		1734 Feb 26 19:45	0°♊	
max. Earth dist.	1733 Mar 19 13:02	23°♊42'29 1.35581 AU	max. Earth dist.	1734 Mar 01 11:16	4°♊45'32	1.37493 AU
	1733 Mar 22 18:10	0°♊				
			superior conj	1734 Mar 08 05:10	17°♊27'00	-1°35'35
superior conj	1733 Mar 24 20:49	4°♊13'55 -1°10'57	minimum elong	1734 Mar 08 09:23	17°♊47'27	1°35'04
minimum elong	1733 Mar 25 00:18	4°♊31'34 1°10'21		1734 Mar 14 13:41	0°♊	
asc. node	1733 Apr 01 05:30	19°♊20'42	evening rise	1734 Mar 16 19:23	4°♊27'47	
evening rise	1733 Apr 01 18:14	20°♊25'52	asc. node	1734 Mar 19 02:33	8°♊59'53	
	1733 Apr 06 13:41	0°♊		1734 Apr 01 00:26	0°♊	
evening max el	1733 Apr 19 21:44	19°♊51'52 20°16'06	evening max el	1734 Apr 02 14:49	1°♊40'36	19°14'18
retrograde	1733 Apr 30 13:23	25°♊01'04	retrograde	1734 Apr 11 14:26	6°♊01'21	
evening set	1733 May 02 14:33	24°♊50'27	evening set	1734 Apr 13 17:21	5°♊47'51	
desc. node	1733 May 09 16:45	22°♊01'01	inferior conj	1734 Apr 22 01:22	1°♊37'50	1°16'05
inferior conj	1733 May 11 16:22	20°♊52'06 -0°34'40	minimum elong	1734 Apr 22 04:18	1°♊32'55	1°15'06
minimum elong	1733 May 11 14:45	20°♊54'30 0°34'04		1734 Apr 24 11:46	30°♊♊	
min. Earth dist.	1733 May 13 07:40	19°♊54'16 0.55200 AU	min. Earth dist.	1734 Apr 24 22:35	29°♊42'23	0.56354 AU
morning rise	1733 May 20 13:28	16°♊34'30	desc. node	1734 Apr 26 13:48	28°♊41'33	
direct	1733 May 24 09:53	16°♊02'20	morning rise	1734 Apr 30 12:19	26°♊46'28	
morning max el	1733 Jun 06 23:15	22°♊40'24 23°39'43	direct	1734 May 05 08:44	25°♊52'10	
	1733 Jun 13 10:42	0°♊		1734 May 15 22:09	0°♊	
asc. node	1733 Jun 28 04:45	24°♊56'47	morning max el	1734 May 19 13:45	3°♊07'30	25°19'11
morning set	1733 Jun 30 20:40	0°♊27'16		1734 Jun 07 14:04	0°♊	
	1733 Jun 30 15:29	0°♊	morning set	1734 Jun 15 08:30	15°♊23'47	
			asc. node	1734 Jun 15 01:50	14°♊48'39	
superior conj	1733 Jul 07 21:41	15°♊35'12 1°26'38				
minimum elong	1733 Jul 07 19:21	15°♊22'37 1°26'21	superior conj	1734 Jun 22 07:53	0°♊30'33	1°09'55
max. Earth dist.	1733 Jul 10 03:32	20°♊23'19 1.33452 AU	minimum elong	1734 Jun 22 05:30	0°♊17'32	1°09'32
	1733 Jul 14 18:40	0°♊		1734 Jun 22 02:18	0°♊	
evening rise	1733 Jul 15 09:40	1°♊15'31	max. Earth dist.	1734 Jun 23 11:00	2°♊58'33	1.32657 AU
	1733 Jul 31 14:13	0°♊	evening rise	1734 Jun 29 10:43	15°♊43'09	
desc. node	1733 Aug 05 16:04	7°♊28'59		1734 Jul 06 18:20	0°♊	
evening max el	1733 Aug 18 05:48	22°♊29'06 27°23'41	desc. node	1734 Jul 23 13:05	26°♊14'08	
retrograde	1733 Aug 31 19:17	29°♊47'00		1734 Jul 26 14:53	0°♊	
evening set	1733 Sep 07 22:37	27°♊05'47	evening max el	1734 Jul 31 14:18	5°♊16'36	27°19'31
min. Earth dist.	1733 Sep 11 15:13	23°♊46'11 0.64051 AU	retrograde	1734 Aug 14 09:33	12°♊32'47	
inferior conj	1733 Sep 14 02:17	21°♊11'48 -3°09'39	evening set	1734 Aug 21 14:08	10°♊05'54	
minimum elong	1733 Sep 14 07:06	20°♊59'10 3°08'05	min. Earth dist.	1734 Aug 25 04:10	7°♊14'22	0.62275 AU
morning rise	1733 Sep 20 16:38	15°♊49'13	inferior conj	1734 Aug 28 03:17	4°♊28'54	-4°00'43
direct	1733 Sep 23 06:13	15°♊16'10	minimum elong	1734 Aug 28 08:32	4°♊16'36	3°59'26
asc. node	1733 Sep 24 03:56	15°♊20'21		1734 Sep 02 21:09	30°♊♊	
morning max el	1733 Sep 29 18:49	18°♊42'04 17°55'21	morning rise	1734 Sep 04 04:25	29°♊25'38	
	1733 Oct 08 01:30	0°♊	direct	1734 Sep 06 15:05	28°♊59'13	
morning set	1733 Oct 16 18:42	14°♊42'11		1734 Sep 10 06:41	0°♊	
	1733 Oct 25 20:01	0°♊	asc. node	1734 Sep 11 01:01	0°♊27'50	
			morning max el	1734 Sep 13 10:23	2°♊26'22	17°53'08
superior conj	1733 Oct 29 14:55	6°♊13'22 0°20'17	morning set	1734 Sep 29 11:15	27°♊30'40	
minimum elong	1733 Oct 29 17:09	6°♊22'29 0°19'59		1734 Sep 30 20:29	0°♊	
desc. node	1733 Nov 01 15:22	11°♊06'19				
max. Earth dist.	1733 Nov 04 01:20	14°♊58'03 1.44401 AU	superior conj	1734 Oct 10 11:24	16°♊54'28	0°59'00
	1733 Nov 13 15:47	0°♊	minimum elong	1734 Oct 10 15:59	17°♊13'59	0°58'25
evening rise	1733 Nov 14 16:41	1°♊35'59	max. Earth dist.	1734 Oct 17 15:54	28°♊53'27	1.43091 AU
	1733 Dec 03 17:46	0°♊		1734 Oct 18 08:16	0°♊	
evening max el	1733 Dec 12 09:17	10°♊49'53 20°26'01	desc. node	1734 Oct 19 12:23	1°♊53'38	




































































































































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	1734 Nov 06 19:40	0° \times		retrograde	1735 Nov 18 00:57	13° \times 51'14	
evening max el	1734 Nov 25 06:38	24° \times 20'04	21°36'46	evening set	1735 Nov 22 19:28	11° \times 54'05	
retrograde	1734 Dec 04 06:06	29° \times 40'37		asc. node	1735 Nov 24 21:18	9° \times 49'24	
asc. node	1734 Dec 08 00:16	28° \times 22'48		inferior conj	1735 Nov 28 04:12	5° \times 32'01	1°06'34
evening set	1734 Dec 08 12:18	28° \times 00'16		minimum elong	1735 Nov 28 02:43	5° \times 37'08	1°05'58
inferior conj	1734 Dec 13 20:45	21° \times 43'44	1°54'06	min. Earth dist.	1735 Nov 27 21:50	5° \times 53'59	0.67807 AU
minimum elong	1734 Dec 13 18:29	21° \times 51'36	1°53'18		1735 Dec 02 16:41	30° \mathbb{M}	
min. Earth dist.	1734 Dec 14 01:10	21° \times 28'29	0.67686 AU	morning rise	1735 Dec 03 09:51	29° \mathbb{M} 22'23	
morning rise	1734 Dec 19 00:31	15° \times 31'19		direct	1735 Dec 07 19:32	27° \mathbb{M} 36'07	
direct	1734 Dec 24 00:52	13° \times 22'20			1735 Dec 13 13:27	0° \times	
morning max el	1735 Jan 03 04:14	19° \times 23'41	23°06'11	morning max el	1735 Dec 16 17:43	2° \times 50'06	21°40'33
	1735 Jan 12 02:57	0° \mathcal{B}		desc. node	1736 Jan 02 08:40	24° \times 24'59	
desc. node	1735 Jan 15 11:38	4° \mathcal{B} 32'03			1736 Jan 06 03:36	0° \mathcal{B}	
	1735 Feb 01 12:47	0° \approx		morning set	1736 Jan 17 17:53	17° \mathcal{B} 52'16	
morning set	1735 Feb 06 21:12	8° \approx 44'01		max. Earth dist.	1736 Jan 24 05:23	28° \mathcal{B} 23'33	1.41703 AU
max. Earth dist.	1735 Feb 11 06:19	16° \approx 10'11	1.39624 AU		1736 Jan 25 04:35	0° \approx	
superior conj	1735 Feb 18 22:37	29° \approx 53'12	-1°54'42	superior conj	1736 Jan 31 20:06	11° \approx 20'33	-2°04'17
minimum elong	1735 Feb 19 02:16	0° \mathbb{H} 10'02	1°54'28	minimum elong	1736 Jan 31 20:58	11° \approx 24'20	2°04'17
	1735 Feb 19 00:05	0° \mathbb{H}			1736 Feb 11 04:53	0° \mathbb{H}	
evening rise	1735 Feb 28 11:53	17° \mathbb{H} 59'10		evening rise	1736 Feb 11 16:09	0° \mathbb{H} 51'45	
asc. node	1735 Mar 05 23:36	28° \mathbb{H} 18'50		asc. node	1736 Feb 20 20:38	17° \mathbb{H} 10'50	
	1735 Mar 06 22:06	0° \mathbb{Y}		evening max el	1736 Feb 28 02:27	26° \mathbb{H} 57'26	18°11'02
evening max el	1735 Mar 16 17:26	14° \mathbb{Y} 05'13	18°32'38		1736 Mar 03 14:24	0° \mathbb{Y}	
retrograde	1735 Mar 24 09:45	17° \mathbb{Y} 51'13		retrograde	1736 Mar 05 22:59	0° \mathbb{Y} 24'57	
evening set	1735 Mar 26 18:20	17° \mathbb{Y} 31'06			1736 Mar 08 08:37	30° \mathbb{H}	
inferior conj	1735 Apr 03 07:01	13° \mathbb{Y} 02'29	2°36'44	evening set	1736 Mar 08 13:20	29° \mathbb{H} 55'50	
minimum elong	1735 Apr 03 11:02	12° \mathbb{Y} 54'35	2°35'44	inferior conj	1736 Mar 15 09:19	25° \mathbb{H} 06'24	3°23'47
min. Earth dist.	1735 Apr 06 17:02	10° \mathbb{Y} 22'52	0.58163 AU	minimum elong	1736 Mar 15 11:59	25° \mathbb{H} 00'19	3°23'23
morning rise	1735 Apr 11 00:45	7° \mathbb{Y} 39'06		min. Earth dist.	1736 Mar 18 17:09	22° \mathbb{H} 05'50	0.60279 AU
desc. node	1735 Apr 13 10:50	6° \mathbb{Y} 41'39		morning rise	1736 Mar 22 08:32	19° \mathbb{H} 20'53	
direct	1735 Apr 16 21:57	6° \mathbb{Y} 10'49		direct	1736 Mar 28 23:35	17° \mathbb{H} 15'43	
morning max el	1735 May 01 07:08	13° \mathbb{Y} 49'32	26°41'31	desc. node	1736 Mar 30 07:52	17° \mathbb{H} 20'42	
	1735 May 14 03:40	0° \mathcal{B}		morning max el	1736 Apr 12 06:18	25° \mathbb{H} 06'27	27°33'43
morning set	1735 May 30 18:56	0° \mathbb{I} 15'03			1736 Apr 16 18:21	0° \mathbb{Y}	
	1735 May 30 16:04	0° \mathbb{I}			1736 May 06 11:30	0° \mathcal{B}	
asc. node	1735 Jun 01 22:52	4° \mathbb{I} 51'05		morning set	1736 May 14 02:16	14° \mathcal{B} 55'16	
superior conj	1735 Jun 06 19:35	15° \mathbb{I} 28'23	0°49'25	asc. node	1736 May 18 19:54	24° \mathcal{B} 59'37	
minimum elong	1735 Jun 06 17:37	15° \mathbb{I} 17'36	0°49'01	max. Earth dist.	1736 May 20 10:34	28° \mathcal{B} 30'34	1.32237 AU
max. Earth dist.	1735 Jun 06 22:32	15° \mathbb{I} 44'40	1.32253 AU	superior conj	1736 May 21 07:04	0° \mathbb{I} 22'56	0°25'49
evening rise	1735 Jun 13 17:30	0° \mathcal{E} 26'31		minimum elong	1736 May 21 05:55	0° \mathbb{I} 16'41	0°25'34
	1735 Jun 13 12:27	0° \mathcal{E}			1736 May 21 02:53	0° \mathbb{I}	
	1735 Jun 29 21:35	0° \mathcal{O}		evening rise	1736 May 28 03:47	15° \mathbb{I} 18'15	
desc. node	1735 Jul 10 10:08	13° \mathcal{O} 58'24			1736 Jun 04 12:03	0° \mathcal{E}	
evening max el	1735 Jul 13 17:11	17° \mathcal{O} 22'02	26°42'17	evening max el	1736 Jun 24 13:10	28° \mathcal{E} 41'29	25°34'15
retrograde	1735 Jul 27 16:23	24° \mathcal{O} 35'43			1736 Jun 25 23:28	0° \mathcal{O}	
evening set	1735 Aug 03 11:33	22° \mathcal{O} 36'58		desc. node	1736 Jun 26 07:08	0° \mathcal{O} 16'37	
min. Earth dist.	1735 Aug 07 06:55	19° \mathcal{O} 59'48	0.60261 AU	retrograde	1736 Jul 08 13:44	5° \mathcal{O} 50'22	
inferior conj	1735 Aug 10 13:44	17° \mathcal{O} 19'05	-4°39'47	evening set	1736 Jul 14 10:21	4° \mathcal{O} 29'37	
minimum elong	1735 Aug 10 17:44	17° \mathcal{O} 10'53	4°39'14	min. Earth dist.	1736 Jul 19 01:21	1° \mathcal{O} 48'54	0.58215 AU
morning rise	1735 Aug 18 01:55	12° \mathcal{O} 37'43			1736 Jul 21 15:05	30° \mathbb{H}	
direct	1735 Aug 20 12:16	12° \mathcal{O} 15'29		inferior conj	1736 Jul 22 06:11	29° \mathcal{E} 33'01	-4°56'37
morning max el	1735 Aug 27 22:22	15° \mathcal{O} 53'06	18°10'05	minimum elong	1736 Jul 22 06:27	29° \mathcal{E} 32'32	4°56'37
asc. node	1735 Aug 28 22:05	16° \mathcal{O} 53'40		morning rise	1736 Jul 30 04:58	25° \mathcal{E} 14'00	
	1735 Sep 06 19:06	0° \mathbb{H}		direct	1736 Aug 01 17:31	24° \mathcal{E} 54'04	
morning set	1735 Sep 12 19:20	11° \mathbb{H} 03'32		morning max el	1736 Aug 10 03:30	28° \mathcal{E} 52'59	18°47'29
superior conj	1735 Sep 22 09:38	28° \mathbb{H} 51'10	1°25'35		1736 Aug 11 06:12	0° \mathcal{O}	
minimum elong	1735 Sep 22 13:36	29° \mathbb{H} 09'00	1°25'12	asc. node	1736 Aug 14 19:07	4° \mathcal{O} 22'37	
	1735 Sep 23 00:58	0° \mathcal{O}		morning set	1736 Aug 26 14:22	25° \mathcal{O} 08'32	
max. Earth dist.	1735 Sep 30 00:40	12° \mathcal{O} 09'39	1.41309 AU		1736 Aug 29 01:53	0° \mathbb{H}	
evening rise	1735 Oct 05 03:48	20° \mathcal{O} 38'59		superior conj	1736 Sep 04 04:23	11° \mathbb{H} 48'42	1°40'36
desc. node	1735 Oct 06 09:25	22° \mathcal{O} 38'22		minimum elong	1736 Sep 04 06:32	11° \mathbb{H} 58'51	1°40'29
	1735 Oct 11 01:24	0° \mathbb{M}		max. Earth dist.	1736 Sep 11 05:06	24° \mathbb{H} 43'14	1.39289 AU
	1735 Nov 01 02:34	0° \times			1736 Sep 14 05:39	0° \mathcal{O}	

evening rise	1736 Sep 15 04:39	1°♄38'27		superior conj	1737 Aug 18 14:13	25°♄31'32	1°45'52
desc. node	1736 Sep 22 06:26	13°♄16'49		minimum elong	1737 Aug 18 14:29	25°♄32'51	1°45'52
	1736 Oct 03 08:33	0°♄			1737 Aug 20 20:49	0°♄	
evening max el	1736 Oct 20 12:03	21°♄27'59	24°14'53	max. Earth dist.	1737 Aug 24 09:32	6°♄44'48	1.37279 AU
retrograde	1736 Oct 31 16:10	28°♄00'46		evening rise	1737 Aug 28 04:45	13°♄43'25	
evening set	1736 Nov 06 00:29	25°♄46'41			1737 Sep 06 18:44	0°♄	
min. Earth dist.	1736 Nov 10 18:00	20°♄19'57	0.67598 AU	desc. node	1737 Sep 09 03:28	3°♄44'28	
asc. node	1736 Nov 10 18:20	20°♄18'48			1737 Sep 28 05:20	0°♄	
inferior conj	1736 Nov 11 10:51	19°♄23'13	0°14'12	evening max el	1737 Oct 03 00:03	5°♄07'29	25°29'23
minimum elong	1736 Nov 11 10:30	19°♄24'22	0°14'03	retrograde	1737 Oct 15 02:55	12°♄05'15	
transit middle	1736 Nov 11 10:30	19°♄24'22	0°14'03	evening set	1737 Oct 21 01:40	9°♄35'47	
transit begin	1736 Nov 11 09:07	19°♄29'00		min. Earth dist.	1737 Oct 25 11:16	4°♄44'11	0.67055 AU
transit end	1736 Nov 11 11:52	19°♄19'45		inferior conj	1737 Oct 26 14:57	3°♄15'06	-0°41'40
morning rise	1736 Nov 16 20:31	13°♄18'48		minimum elong	1737 Oct 26 16:01	3°♄11'39	0°41'13
direct	1736 Nov 20 16:51	11°♄54'17		asc. node	1737 Oct 28 15:21	0°♄44'05	
morning max el	1736 Nov 28 14:17	16°♄26'48	20°24'27		1737 Oct 29 06:42	30°♄	
	1736 Dec 09 07:18	0°♄		morning rise	1737 Nov 01 06:35	27°♄18'38	
desc. node	1736 Dec 19 05:41	14°♄38'18		direct	1737 Nov 04 15:22	26°♄13'15	
morning set	1736 Dec 26 16:42	26°♄03'14			1737 Nov 11 12:54	0°♄	
	1736 Dec 29 05:33	0°♄		morning max el	1737 Nov 11 18:44	0°♄14'32	19°22'01
max. Earth dist.	1737 Jan 05 12:29	11°♄33'07	1.43455 AU	greatest brilliancy	1737 Nov 25 15:51	19°♄01'01	-0.7m
					1737 Dec 02 19:35	0°♄	
superior conj	1737 Jan 11 16:35	21°♄37'33	-1°59'22	morning set	1737 Dec 05 16:41	4°♄27'40	
minimum elong	1737 Jan 11 12:22	21°♄20'05	1°59'11	desc. node	1737 Dec 06 02:43	5°♄06'35	
	1737 Jan 16 16:17	0°♄		max. Earth dist.	1737 Dec 19 02:55	25°♄27'20	1.44643 AU
evening rise	1737 Jan 24 03:59	12°♄56'24			1737 Dec 21 23:41	0°♄	
	1737 Feb 03 02:59	0°♄					
asc. node	1737 Feb 06 17:39	5°♄26'37		superior conj	1737 Dec 22 11:10	0°♄45'43	-1°35'54
evening max el	1737 Feb 10 14:33	10°♄07'11	18°08'51	minimum elong	1737 Dec 22 02:39	0°♄11'48	1°35'08
retrograde	1737 Feb 17 02:15	13°♄31'12		evening rise	1738 Jan 05 19:17	24°♄07'12	
evening set	1737 Feb 19 21:47	12°♄51'49			1738 Jan 09 08:02	0°♄	
inferior conj	1737 Feb 26 04:51	7°♄41'44	3°42'59	asc. node	1738 Jan 24 14:40	22°♄56'03	
minimum elong	1737 Feb 26 05:29	7°♄40'05	3°42'57	evening max el	1738 Jan 25 02:55	23°♄28'01	18°25'24
min. Earth dist.	1737 Mar 01 01:09	4°♄45'08	0.62377 AU	retrograde	1738 Jan 31 15:14	27°♄01'28	
morning rise	1737 Mar 04 11:59	1°♄42'48		evening set	1738 Feb 03 15:58	26°♄11'01	
	1737 Mar 07 10:05	30°♄		inferior conj	1738 Feb 09 13:38	20°♄41'46	3°41'18
direct	1737 Mar 11 10:37	29°♄08'44		minimum elong	1738 Feb 09 12:33	20°♄44'54	3°41'13
	1737 Mar 15 16:23	0°♄		min. Earth dist.	1738 Feb 11 18:46	18°♄08'28	0.64224 AU
desc. node	1737 Mar 17 04:53	0°♄41'02		morning rise	1738 Feb 15 08:34	14°♄35'00	
morning max el	1737 Mar 25 11:15	7°♄03'40	27°49'20	direct	1738 Feb 22 05:27	11°♄45'34	
	1737 Apr 11 22:49	0°♄		desc. node	1738 Mar 04 01:55	16°♄12'09	
morning set	1737 Apr 28 04:22	29°♄16'18		morning max el	1738 Mar 07 20:06	19°♄37'22	27°28'34
	1737 Apr 28 12:58	0°♄			1738 Mar 16 16:59	0°♄	
max. Earth dist.	1737 May 03 19:13	11°♄02'09	1.32613 AU		1738 Apr 04 22:36	0°♄	
				morning set	1738 Apr 11 22:40	13°♄10'17	
superior conj	1737 May 05 16:34	15°♄07'03	-0°00'10	max. Earth dist.	1738 Apr 16 20:34	23°♄07'17	1.33408 AU
minimum elong	1737 May 05 16:34	15°♄07'05	0°00'10				
behind sun begin	1737 May 05 11:25	14°♄39'07		superior conj	1738 Apr 19 22:15	29°♄34'59	-0°27'39
behind sun end	1737 May 05 21:43	15°♄35'05		minimum elong	1738 Apr 19 23:37	29°♄42'17	0°27'21
asc. node	1737 May 05 16:56	15°♄09'06			1738 Apr 20 02:57	0°♄	
evening rise	1737 May 12 15:31	0°♄10'19		asc. node	1738 Apr 22 13:58	5°♄15'38	
	1737 May 12 13:34	0°♄		evening rise	1738 Apr 27 02:55	14°♄56'35	
	1737 May 29 06:04	0°♄			1738 May 04 17:16	0°♄	
evening max el	1737 Jun 06 03:43	9°♄22'59	24°04'50	evening max el	1738 May 18 18:47	19°♄52'26	22°28'48
desc. node	1737 Jun 13 04:09	14°♄35'14		desc. node	1738 May 31 01:10	26°♄19'10	
retrograde	1737 Jun 19 23:01	16°♄19'36		retrograde	1738 May 31 20:04	26°♄20'34	
evening set	1737 Jun 24 10:10	15°♄35'28		evening set	1738 Jun 03 21:17	26°♄00'03	
min. Earth dist.	1737 Jun 30 14:32	12°♄35'02	0.56430 AU	min. Earth dist.	1738 Jun 12 02:03	22°♄26'58	0.55241 AU
inferior conj	1737 Jul 03 02:24	11°♄02'27	-4°37'28	inferior conj	1738 Jun 13 04:38	21°♄49'17	-3°31'19
minimum elong	1737 Jul 02 21:22	11°♄10'16	4°36'48	minimum elong	1738 Jun 12 20:48	22°♄00'25	3°29'12
morning rise	1737 Jul 11 11:15	7°♄02'27		morning rise	1738 Jun 21 22:24	17°♄57'22	
direct	1737 Jul 14 03:50	6°♄43'29		direct	1738 Jun 24 20:42	17°♄37'49	
morning max el	1737 Jul 23 22:54	11°♄16'09	19°46'18	morning max el	1738 Jul 06 07:02	22°♄56'38	21°05'39
asc. node	1737 Aug 01 16:09	22°♄40'21			1738 Jul 12 09:20	0°♄	
	1737 Aug 05 19:23	0°♄		asc. node	1738 Jul 19 13:12	11°♄35'29	
morning set	1737 Aug 10 16:59	9°♄36'12		morning set	1738 Jul 26 00:35	24°♄19'25	
					1738 Jul 28 18:04	0°♄	

superior conj	1738 Aug 02 10:43	9°Ω46'55	1°43'14	morning set	1739 Jul 10 11:14	9°Ω12'33	
minimum elong	1738 Aug 02 09:31	9°Ω40'48	1°43'11				
max. Earth dist.	1738 Aug 06 19:09	18°Ω35'42	1.35498 AU	superior conj	1739 Jul 17 14:34	24°Ω24'52	1°34'15
evening rise	1738 Aug 11 00:04	26°Ω43'45		minimum elong	1739 Jul 17 12:29	24°Ω13'50	1°34'03
	1738 Aug 12 18:11	0°Π			1739 Jul 20 06:12	0°Ω	
desc. node	1738 Aug 27 00:29	23°Π55'19		max. Earth dist.	1739 Jul 20 13:38	0°Ω38'36	1.34077 AU
	1738 Aug 31 03:38	0°Ω		evening rise	1739 Jul 25 10:03	10°Ω27'39	
evening max el	1738 Sep 15 12:04	18°Ω45'09	26°30'54		1739 Aug 05 03:29	0°Π	
retrograde	1738 Sep 28 08:41	25°Ω58'03		desc. node	1739 Aug 13 21:32	13°Π42'04	
evening set	1738 Oct 04 21:04	23°Ω17'26			1739 Aug 26 18:56	0°Ω	
min. Earth dist.	1738 Oct 08 23:15	19°Ω02'21	0.66166 AU	evening max el	1739 Aug 29 00:06	2°Ω13'23	27°11'58
inferior conj	1738 Oct 10 14:36	17°Ω03'43	-1°39'35	retrograde	1739 Sep 11 09:05	9°Ω32'06	
minimum elong	1738 Oct 10 17:14	16°Ω55'45	1°38'30	evening set	1739 Sep 18 08:15	6°Ω47'59	
asc. node	1738 Oct 15 12:24	11°Ω59'21		min. Earth dist.	1739 Sep 22 03:48	3°Ω09'00	0.64925 AU
morning rise	1738 Oct 16 13:56	11°Ω18'03		inferior conj	1739 Sep 24 07:37	0°Ω45'24	-2°37'27
direct	1738 Oct 19 13:17	10°Ω28'16		minimum elong	1739 Sep 24 11:45	0°Ω33'55	2°35'57
morning max el	1738 Oct 26 05:40	14°Ω08'52	18°35'07		1739 Sep 25 00:04	30°RΠ	
	1738 Nov 06 18:55	0°Π		morning rise	1739 Sep 30 16:10	25°Π13'30	
morning set	1738 Nov 15 15:25	14°Π04'08		asc. node	1739 Oct 02 09:27	24°Π40'23	
desc. node	1738 Nov 22 23:44	25°Π44'40		direct	1739 Oct 03 08:28	24°Π35'29	
	1738 Nov 25 16:26	0°R		morning max el	1739 Oct 09 20:40	28°Π04'37	18°04'48
					1739 Oct 11 14:43	0°Ω	
superior conj	1738 Dec 01 13:24	9°R14'16	-0°55'08	morning set	1739 Oct 27 19:19	25°Ω06'55	
minimum elong	1738 Dec 01 06:29	8°R47'06	0°54'16		1739 Oct 30 17:52	0°Π	
max. Earth dist.	1738 Dec 01 21:09	9°R44'41	1.45127 AU	desc. node	1739 Nov 09 20:48	16°Π29'04	
	1738 Dec 14 17:40	0°R					
evening rise	1738 Dec 17 11:14	4°R20'18		superior conj	1739 Nov 10 20:02	18°Π01'53	-0°06'31
greatest brilliancy	1738 Dec 26 03:38	18°R07'52	-0.8m	minimum elong	1739 Nov 10 19:14	17°Π58'39	0°06'24
	1739 Jan 02 23:53	0°R		behind sun begin	1739 Nov 10 09:19	17°Π19'04	
evening max el	1739 Jan 08 13:06	6°R54'25	18°59'47	behind sun end	1739 Nov 11 05:09	18°Π38'12	
asc. node	1739 Jan 11 11:42	9°R25'49		max. Earth dist.	1739 Nov 14 15:53	24°Π06'06	1.44873 AU
retrograde	1739 Jan 15 09:59	10°R48'09			1739 Nov 18 09:59	0°R	
evening set	1739 Jan 18 16:48	9°R45'41		evening rise	1739 Nov 27 05:55	13°R43'44	
inferior conj	1739 Jan 24 08:02	3°R59'35	3°24'19		1739 Dec 07 20:22	0°R	
minimum elong	1739 Jan 24 05:52	4°R06'25	3°23'58	greatest brilliancy	1739 Dec 10 18:03	4°R21'51	-0.7m
min. Earth dist.	1739 Jan 25 21:49	2°R01'03	0.65703 AU	evening max el	1739 Dec 22 19:10	20°R23'31	19°50'29
	1739 Jan 27 14:34	30°R3		asc. node	1739 Dec 29 08:45	24°R41'14	
morning rise	1739 Jan 29 18:37	27°R48'25		retrograde	1739 Dec 30 07:27	24°R46'12	
direct	1739 Feb 05 07:00	24°R57'43		evening set	1740 Jan 02 21:52	23°R30'21	
	1739 Feb 15 11:47	0°R		inferior conj	1740 Jan 08 09:01	17°R30'08	2°55'57
morning max el	1739 Feb 18 06:02	2°R35'49	26°36'53	minimum elong	1740 Jan 08 06:23	17°R38'52	2°55'17
desc. node	1739 Feb 18 22:57	3°R19'01		min. Earth dist.	1740 Jan 09 08:43	16°R11'25	0.66780 AU
	1739 Mar 10 22:26	0°R		morning rise	1740 Jan 13 14:41	11°R17'00	
morning set	1739 Mar 26 05:45	26°R26'57		direct	1740 Jan 19 14:30	8°R36'45	
	1739 Mar 28 02:16	0°Y		morning max el	1740 Jan 31 15:01	15°R46'40	25°22'58
max. Earth dist.	1739 Mar 30 11:08	4°Y38'45	1.34652 AU	desc. node	1740 Feb 05 20:00	21°R43'13	
					1740 Feb 12 09:04	0°R	
superior conj	1739 Apr 03 21:58	13°Y40'19	-0°55'26		1740 Mar 02 19:56	0°R	
minimum elong	1739 Apr 04 00:44	13°Y54'41	0°54'55	morning set	1740 Mar 07 20:55	8°R52'34	
asc. node	1739 Apr 09 11:02	25°Y15'18		max. Earth dist.	1740 Mar 11 13:54	15°R42'57	1.36348 AU
evening rise	1739 Apr 11 12:04	29°Y30'51					
	1739 Apr 11 17:42	0°R		superior conj	1740 Mar 17 12:55	27°R15'14	-1°21'52
	1739 Apr 30 01:10	0°Π		minimum elong	1740 Mar 17 16:49	27°R34'39	1°21'18
evening max el	1739 Apr 30 17:48	0°Π41'28	21°00'11		1740 Mar 18 21:55	0°Y	
retrograde	1739 May 12 09:41	6°Π22'17		evening rise	1740 Mar 25 16:52	13°Y46'27	
evening set	1739 May 14 14:21	6°Π10'57		asc. node	1740 Mar 26 08:06	15°Y03'20	
desc. node	1739 May 17 22:11	5°Π14'27			1740 Apr 03 05:52	0°R	
inferior conj	1739 May 23 22:30	2°Π12'42	-1°44'08	evening max el	1740 Apr 12 04:28	12°R07'49	19°47'28
minimum elong	1739 May 23 17:37	2°Π19'37	1°42'25	retrograde	1740 Apr 22 02:36	16°R55'00	
min. Earth dist.	1739 May 24 14:31	1°Π50'01	0.54924 AU	evening set	1740 Apr 24 03:25	16°R43'50	
	1739 May 28 00:11	30°R8		inferior conj	1740 May 02 22:22	12°R42'20	0°15'04
morning rise	1739 Jun 01 20:47	28°R09'36		minimum elong	1740 May 02 23:02	12°R41'18	0°14'49
direct	1739 Jun 05 06:11	27°R44'46		transit middle	1740 May 02 23:02	12°R41'18	0°14'49
	1739 Jun 13 00:19	0°Π		transit begin	1740 May 02 21:34	12°R43'34	
morning max el	1739 Jun 18 04:51	3°Π56'06	22°41'11	transit end	1740 May 03 00:29	12°R39'02	
	1739 Jul 05 22:17	0°R		desc. node	1740 May 03 19:13	12°R09'57	
asc. node	1739 Jul 06 10:16	0°R58'42		min. Earth dist.	1740 May 05 04:33	11°R18'44	0.55583 AU

morning rise	1740 May 11 16:14	8°♄10'39	direct	1741 Apr 27 03:39	17°♄30'07	
direct	1740 May 15 22:16	7°♄30'32	morning max el	1741 May 11 11:02	24°♄56'35	25°57'09
morning max el	1740 May 29 20:09	14°♄27'12 24°23'10		1741 May 16 03:08	0°♄	
	1740 Jun 11 01:01	0°♄		1741 Jun 03 23:57	0°♄	
asc. node	1740 Jun 22 07:21	20°♄41'37	morning set	1741 Jun 08 10:28	9°♄03'24	
morning set	1740 Jun 23 23:04	24°♄08'54	asc. node	1741 Jun 09 04:25	10°♄38'25	
	1740 Jun 26 16:44	0°♄				
superior conj	1740 Jun 30 23:02	9°♄15'37 1°20'05	superior conj	1741 Jun 15 10:04	24°♄12'22	1°01'39
minimum elong	1740 Jun 30 20:38	9°♄02'31 1°19'44	minimum elong	1741 Jun 15 07:48	24°♄00'00	1°01'15
max. Earth dist.	1740 Jul 02 16:55	13°♄01'51 1.33059 AU	max. Earth dist.	1741 Jun 16 02:33	25°♄42'46	1.32442 AU
evening rise	1740 Jul 08 06:32	24°♄42'08		1741 Jun 18 01:40	0°♄	
	1740 Jul 10 22:19	0°♄	evening rise	1741 Jun 22 10:19	9°♄17'21	
	1740 Jul 28 16:36	0°♄		1741 Jul 03 06:40	0°♄	
desc. node	1740 Jul 30 18:33	2°♄53'29	desc. node	1741 Jul 17 15:34	21°♄14'56	
evening max el	1740 Aug 10 10:40	15°♄19'45 27°25'56	evening max el	1741 Jul 23 17:18	27°♄50'58	27°07'49
retrograde	1740 Aug 24 03:19	22°♄37'37		1741 Jul 26 03:33	0°♄	
evening set	1740 Aug 31 08:03	20°♄01'02	retrograde	1741 Aug 06 14:23	5°♄05'21	
min. Earth dist.	1740 Sep 03 22:59	16°♄54'17 0.63330 AU	evening set	1741 Aug 13 16:22	2°♄49'15	
inferior conj	1740 Sep 06 15:20	14°♄13'36 -3°32'19		1741 Aug 17 10:11	30°♄♄	
minimum elong	1740 Sep 06 20:30	14°♄00'41 3°30'48	min. Earth dist.	1741 Aug 17 07:33	0°♄05'35	0.61438 AU
morning rise	1740 Sep 13 10:12	8°♄58'41	inferior conj	1741 Aug 20 10:34	27°♄20'15	-4°19'16
direct	1740 Sep 15 22:06	8°♄28'54	minimum elong	1741 Aug 20 15:33	27°♄09'12	4°18'17
asc. node	1740 Sep 18 06:31	8°♄55'52	morning rise	1741 Aug 27 16:22	22°♄25'42	
morning max el	1740 Sep 22 12:49	11°♄54'40 17°52'03	direct	1741 Aug 30 02:38	22°♄01'14	
	1740 Oct 04 18:51	0°♄	asc. node	1741 Sep 05 03:35	24°♄37'58	
morning set	1740 Oct 09 00:21	7°♄22'25	morning max el	1741 Sep 06 03:07	25°♄31'45	17°57'54
				1741 Sep 09 21:32	0°♄	
superior conj	1740 Oct 21 00:43	27°♄56'06 0°38'06	morning set	1741 Sep 22 00:09	20°♄31'43	
minimum elong	1740 Oct 21 04:25	28°♄11'25 0°37'35		1741 Sep 27 04:44	0°♄	
	1740 Oct 22 06:41	0°♄	superior conj	1741 Oct 02 08:35	9°♄10'21	1°11'47
desc. node	1740 Oct 26 17:51	7°♄16'18	minimum elong	1741 Oct 02 13:09	9°♄30'17	1°11'15
max. Earth dist.	1740 Oct 27 08:32	8°♄15'18 1.43918 AU	max. Earth dist.	1741 Oct 09 21:04	21°♄56'52	1.42383 AU
evening rise	1740 Nov 05 14:09	22°♄46'22	desc. node	1741 Oct 13 14:52	28°♄02'56	
	1740 Nov 10 07:28	0°♄		1741 Oct 14 20:04	0°♄	
	1740 Dec 01 08:58	0°♄	evening rise	1741 Oct 16 04:57	2°♄10'44	
evening max el	1740 Dec 04 19:54	3°♄53'59 20°54'58		1741 Nov 03 19:08	0°♄	
retrograde	1740 Dec 13 05:11	8°♄51'58	evening max el	1741 Nov 17 15:03	17°♄25'21	22°09'30
asc. node	1740 Dec 15 05:47	8°♄29'03	retrograde	1741 Nov 27 01:26	23°♄01'55	
evening set	1740 Dec 17 05:07	7°♄21'02	evening set	1741 Dec 01 12:45	21°♄14'26	
inferior conj	1740 Dec 22 14:05	1°♄09'44 2°18'47	asc. node	1741 Dec 02 02:49	20°♄44'04	
minimum elong	1740 Dec 22 11:33	1°♄18'26 2°17'58	inferior conj	1741 Dec 06 21:10	14°♄55'18	1°34'37
min. Earth dist.	1740 Dec 23 01:12	0°♄31'36 0.67465 AU	minimum elong	1741 Dec 06 19:11	15°♄02'11	1°33'51
	1740 Dec 23 10:27	30°♄♄	min. Earth dist.	1741 Dec 06 20:55	14°♄56'12	0.67786 AU
morning rise	1740 Dec 27 17:48	24°♄56'37	morning rise	1741 Dec 12 01:29	8°♄44'02	
direct	1741 Jan 02 02:59	22°♄34'48	direct	1741 Dec 16 19:35	6°♄44'37	
morning max el	1741 Jan 12 23:21	29°♄02'55 23°57'04	morning max el	1741 Dec 26 09:56	12°♄24'47	22°28'56
	1741 Jan 13 21:28	0°♄		1742 Jan 09 09:37	0°♄	
desc. node	1741 Jan 22 17:03	10°♄37'54	desc. node	1742 Jan 09 14:03	0°♄15'43	
	1741 Feb 05 04:18	0°♄	morning set	1742 Jan 29 03:38	0°♄06'10	
morning set	1741 Feb 17 14:13	20°♄10'45		1742 Jan 29 02:07	0°♄	
max. Earth dist.	1741 Feb 21 09:28	26°♄49'46 1.38387 AU	max. Earth dist.	1742 Feb 03 05:57	8°♄35'02	1.40540 AU
	1741 Feb 23 03:51	0°♄				
superior conj	1741 Feb 28 15:33	10°♄10'31 -1°44'35	superior conj	1742 Feb 11 01:08	22°♄13'17	-2°00'14
minimum elong	1741 Feb 28 19:44	10°♄30'24 1°44'11	minimum elong	1742 Feb 11 03:55	22°♄25'50	2°00'06
evening rise	1741 Mar 09 14:43	27°♄36'34		1742 Feb 15 07:14	0°♄	
	1741 Mar 10 20:05	0°♄	evening rise	1742 Feb 21 02:26	10°♄52'27	
asc. node	1741 Mar 13 05:08	4°♄34'53	asc. node	1742 Feb 28 02:09	23°♄43'12	
evening max el	1741 Mar 26 02:05	24°♄13'27 18°54'08		1742 Mar 03 21:59	0°♄	
retrograde	1741 Apr 03 10:43	28°♄16'56	evening max el	1742 Mar 09 07:46	6°♄50'36	18°20'57
evening set	1741 Apr 05 16:05	28°♄00'52	retrograde	1742 Mar 16 14:06	10°♄26'47	
inferior conj	1741 Apr 13 15:44	23°♄43'37 1°54'30	evening set	1742 Mar 19 01:19	10°♄02'55	
minimum elong	1741 Apr 13 19:33	23°♄36'47 1°53'22	inferior conj	1742 Mar 26 06:25	5°♄25'08	3°00'34
min. Earth dist.	1741 Apr 16 20:39	21°♄27'02 0.57068 AU	minimum elong	1742 Mar 26 10:02	5°♄17'31	2°59'49
desc. node	1741 Apr 20 16:14	19°♄09'40	min. Earth dist.	1742 Mar 29 16:51	2°♄33'48	0.59053 AU
morning rise	1741 Apr 21 19:55	18°♄38'03		1742 Apr 02 09:54	30°♄♄	
			morning rise	1742 Apr 02 16:11	29°♄51'16	

desc. node	1742 Apr 07 13:15	28° X 12'16		direct	1743 Mar 22 03:46	9° X 32'33	
direct	1742 Apr 08 22:05	28° X 07'17		desc. node	1743 Mar 25 10:16	10° X 02'13	
	1742 Apr 15 16:05	0° Y		morning max el	1743 Apr 05 08:41	17° X 26'13	27°45'00
morning max el	1742 Apr 23 06:39	5° Y 51'17	27°08'01		1743 Apr 15 19:34	0° Y	
	1742 May 11 04:44	0° B			1743 May 03 20:15	0° B	
morning set	1742 May 23 19:47	23° B 50'27		morning set	1743 May 08 01:09	8° B 23'31	
	1742 May 26 17:20	0° II		asc. node	1743 May 13 22:28	20° B 53'12	
asc. node	1742 May 27 01:27	0° II 43'49		max. Earth dist.	1743 May 14 02:03	21° B 12'39	1.32345 AU
superior conj	1742 May 30 21:50	9° II 09'00	0°39'43	superior conj	1743 May 15 08:39	23° B 59'39	0°15'01
minimum elong	1742 May 30 20:10	8° II 59'53	0°39'23	minimum elong	1743 May 15 07:58	23° B 55'53	0°14'53
max. Earth dist.	1742 May 30 14:55	8° II 30'59	1.32202 AU	behind sun begin	1743 May 15 06:12	23° B 46'14	
evening rise	1742 Jun 06 18:50	24° II 04'55		behind sun end	1743 May 15 09:44	24° B 05'33	
	1742 Jun 09 15:29	0° O			1743 May 18 02:28	0° II	
	1742 Jun 27 09:12	0° O		evening rise	1743 May 22 05:56	8° II 57'20	
desc. node	1742 Jul 04 12:34	8° O 25'59			1743 Jun 02 03:13	0° O	
evening max el	1742 Jul 05 17:19	9° O 36'39	26°16'42	evening max el	1743 Jun 17 10:14	20° O 36'44	24°57'59
retrograde	1742 Jul 19 17:04	16° O 48'09		desc. node	1743 Jun 21 09:34	23° O 57'43	
evening set	1742 Jul 26 04:33	15° O 04'42		retrograde	1743 Jul 01 09:44	27° O 42'42	
min. Earth dist.	1742 Jul 30 06:09	12° O 28'36	0.59379 AU	evening set	1743 Jul 06 17:10	26° O 38'13	
inferior conj	1742 Aug 02 13:44	9° O 56'05	-4°50'25	min. Earth dist.	1743 Jul 11 21:43	23° O 50'56	0.57396 AU
minimum elong	1742 Aug 02 16:27	9° O 50'49	4°50'12	inferior conj	1743 Jul 14 21:36	21° O 51'13	-4°53'47
morning rise	1742 Aug 10 06:29	5° O 24'23		minimum elong	1743 Jul 14 19:39	21° O 54'30	4°53'41
direct	1742 Aug 12 17:41	5° O 03'12		morning rise	1743 Jul 23 00:48	17° O 41'36	
morning max el	1742 Aug 20 12:31	8° O 48'03	18°23'32	direct	1743 Jul 25 14:50	17° O 22'18	
asc. node	1742 Aug 23 00:38	11° O 32'27		morning max el	1743 Aug 03 13:54	21° O 33'45	19°10'02
	1742 Sep 03 06:46	0° P		asc. node	1743 Aug 09 21:41	29° O 23'45	
morning set	1742 Sep 05 13:23	4° P 19'57			1743 Aug 10 07:09	0° O	
superior conj	1742 Sep 14 16:17	21° P 35'26	1°33'16	morning set	1743 Aug 20 11:59	18° O 35'22	
minimum elong	1742 Sep 14 19:32	21° P 50'24	1°33'01		1743 Aug 26 05:50	0° P	
	1742 Sep 19 08:06	0° A		superior conj	1743 Aug 28 18:04	4° P 54'14	1°43'55
max. Earth dist.	1742 Sep 22 04:14	4° A 57'15	1.40461 AU	minimum elong	1743 Aug 28 19:23	5° P 00'35	1°43'52
evening rise	1742 Sep 26 15:49	12° A 31'17		max. Earth dist.	1743 Sep 04 07:39	17° P 13'40	1.38407 AU
desc. node	1742 Sep 30 11:53	18° A 45'49		evening rise	1743 Sep 08 02:51	23° P 59'08	
	1742 Oct 07 17:30	0° M			1743 Sep 11 15:16	0° A	
	1742 Oct 30 06:35	0° X		desc. node	1743 Sep 17 08:55	9° A 20'18	
evening max el	1742 Oct 31 05:42	0° X 59'10	23°29'06		1743 Oct 01 11:33	0° M	
retrograde	1742 Nov 10 18:52	7° X 13'25		evening max el	1743 Oct 13 17:54	14° M 36'12	24°47'38
evening set	1742 Nov 15 19:14	5° X 08'43		retrograde	1743 Oct 25 08:27	21° M 21'39	
asc. node	1742 Nov 18 23:49	1° X 41'53		evening set	1743 Oct 30 22:51	19° M 00'31	
	1742 Nov 20 06:40	30° R M		min. Earth dist.	1743 Nov 04 12:49	13° M 48'31	0.67404 AU
min. Earth dist.	1742 Nov 20 17:34	29° M 22'53	0.67763 AU	inferior conj	1743 Nov 05 10:16	12° M 37'26	-0°09'08
inferior conj	1742 Nov 21 04:29	28° M 45'30	0°44'54	minimum elong	1743 Nov 05 10:30	12° M 36'41	0°09'02
minimum elong	1742 Nov 21 03:27	28° M 49'04	0°44'27	transit middle	1743 Nov 05 10:30	12° M 36'41	0°09'02
morning rise	1742 Nov 26 11:37	22° M 38'03		transit begin	1743 Nov 05 08:12	12° M 44'16	
direct	1742 Nov 30 15:24	21° M 01'27		transit end	1743 Nov 05 12:47	12° M 29'06	
morning max el	1742 Dec 09 02:22	25° M 56'29	21°06'46	asc. node	1743 Nov 05 20:51	12° M 02'26	
	1742 Dec 12 17:54	0° X		morning rise	1743 Nov 10 22:16	6° M 36'06	
desc. node	1742 Dec 27 11:06	20° X 18'32		direct	1743 Nov 14 13:19	5° M 20'19	
	1743 Jan 02 21:36	0° Z		morning max el	1743 Nov 22 02:25	9° M 38'38	19°56'06
morning set	1743 Jan 08 13:11	8° Z 44'42			1743 Dec 07 07:23	0° X	
max. Earth dist.	1743 Jan 16 08:45	21° Z 14'56	1.42512 AU	desc. node	1743 Dec 14 08:09	10° X 39'04	
	1743 Jan 21 15:16	0° \approx		morning set	1743 Dec 18 09:16	16° X 52'28	
superior conj	1743 Jan 23 12:27	3° \approx 11'40	-2°04'16		1743 Dec 26 19:07	0° Z	
minimum elong	1743 Jan 23 11:22	3° \approx 07'02	2°04'14	max. Earth dist.	1743 Dec 29 18:47	4° Z 44'10	1.44036 AU
evening rise	1743 Feb 04 00:16	23° \approx 26'09		superior conj	1744 Jan 03 21:37	12° Z 58'29	-1°51'47
	1743 Feb 07 16:01	0° X		minimum elong	1744 Jan 03 15:09	12° Z 32'12	1°51'22
asc. node	1743 Feb 14 23:09	12° X 21'02			1744 Jan 14 03:22	0° \approx	
evening max el	1743 Feb 20 18:22	19° X 50'52	18°07'39	evening rise	1744 Jan 17 03:55	5° \approx 09'18	
retrograde	1743 Feb 27 10:03	23° X 15'33		asc. node	1744 Feb 01 20:10	0° X 19'10	
evening set	1743 Mar 02 02:32	22° X 42'16			1744 Feb 01 14:09	0° X	
inferior conj	1743 Mar 08 16:33	17° X 43'42	3°34'54	evening max el	1744 Feb 04 06:55	3° X 06'43	18°13'37
minimum elong	1743 Mar 08 18:22	17° X 39'19	3°34'43	retrograde	1744 Feb 10 18:00	6° X 33'30	
min. Earth dist.	1743 Mar 11 20:08	14° X 41'59	0.61192 AU	evening set	1744 Feb 13 15:34	5° X 49'42	
morning rise	1743 Mar 15 08:28	11° X 51'13		inferior conj	1744 Feb 19 18:16	0° X 31'26	3°44'25

minimum elong	1744 Feb 19 18:06	0°  31'53	3°44'24	evening max el	1745 Jan 17 18:44	16°  31'11	18°38'00
	1744 Feb 20 05:44	30°  R 		asc. node	1745 Jan 18 17:12	17°  25'29	
min. Earth dist.	1744 Feb 22 08:26	27°  42'27	0.63202 AU	retrograde	1745 Jan 24 09:44	20°  11'46	
morning rise	1744 Feb 25 19:42	24°  28'25		evening set	1745 Jan 27 12:56	19°  16'23	
direct	1744 Mar 03 18:35	21°  45'41		inferior conj	1745 Feb 02 07:34	13°  39'59	3°35'40
desc. node	1744 Mar 11 07:19	24°  23'11		minimum elong	1745 Feb 02 05:57	13°  44'52	3°35'29
morning max el	1744 Mar 17 15:45	29°  41'19	27°44'39	min. Earth dist.	1745 Feb 04 06:10	11°  20'19	0.64905 AU
	1744 Mar 17 23:11	0°  X		morning rise	1745 Feb 07 22:30	7°  31'11	
	1744 Apr 08 18:07	0°  Y		direct	1745 Feb 14 16:37	4°  39'17	
morning set	1744 Apr 21 00:22	22°  Y35'17		desc. node	1745 Feb 26 04:22	10°  39'07	
	1744 Apr 24 15:13	0°  8		morning max el	1745 Feb 28 01:10	12°  26'46	27°09'49
max. Earth dist.	1744 Apr 26 07:59	3°  834'37	1.32893 AU		1745 Mar 14 03:07	0°  X	
					1745 Apr 01 07:22	0°  Y	
superior conj	1744 Apr 28 16:50	8°  838'37	-0°11'43	morning set	1745 Apr 04 14:23	6°  Y15'10	
minimum elong	1744 Apr 28 17:24	8°  841'41	0°11'35	max. Earth dist.	1745 Apr 09 04:52	15°  Y25'04	1.33883 AU
behind sun begin	1744 Apr 28 13:46	8°  822'05					
behind sun end	1744 Apr 28 21:02	9°  801'17		superior conj	1745 Apr 12 20:18	22°  Y58'28	-0°39'28
asc. node	1744 Apr 29 19:30	11°  802'34		minimum elong	1745 Apr 12 22:17	23°  Y08'52	0°39'04
evening rise	1744 May 05 17:47	23°  848'22			1745 Apr 16 03:56	0°  8	
	1744 May 08 17:24	0°  II		asc. node	1745 Apr 16 16:32	1°  807'01	
	1744 May 27 20:10	0°  6		evening rise	1745 Apr 20 04:29	8°  830'39	
evening max el	1744 May 29 00:07	1°  610'03	23°23'55		1745 May 01 14:40	0°  II	
desc. node	1744 Jun 07 06:34	7°  615'04		evening max el	1745 May 10 18:00	11°  II45'27	21°49'33
retrograde	1744 Jun 11 14:12	7°  657'27		retrograde	1745 May 23 06:37	17°  II54'28	
evening set	1744 Jun 15 09:42	7°  625'33		desc. node	1745 May 25 03:36	17°  II46'32	
min. Earth dist.	1744 Jun 22 10:11	4°  612'29	0.55826 AU	evening set	1745 May 25 20:55	17°  II39'23	
inferior conj	1744 Jun 24 09:36	3°  602'16	-4°15'26	inferior conj	1745 Jun 04 06:42	13°  II36'12	-2°49'33
minimum elong	1744 Jun 24 02:46	3°  612'26	4°14'05	minimum elong	1745 Jun 03 23:26	13°  II46'22	2°47'17
	1744 Jun 30 04:11	30°  R  II		min. Earth dist.	1745 Jun 03 22:05	13°  II48'16	0.54995 AU
morning rise	1744 Jul 02 22:27	29°  II07'23		morning rise	1745 Jun 13 03:09	9°  II41'45	
direct	1744 Jul 05 16:53	28°  II48'35		direct	1745 Jun 16 05:25	9°  II20'36	
	1744 Jul 10 22:05	0°  6		morning max el	1745 Jun 28 08:02	15°  II01'58	21°44'40
morning max el	1744 Jul 16 04:43	3°  640'10	20°17'42		1745 Jul 09 16:31	0°  6	
asc. node	1744 Jul 26 18:45	17°  659'06		asc. node	1745 Jul 13 15:49	7°  607'17	
	1744 Aug 02 03:22	0°  8		morning set	1745 Jul 19 02:08	17°  658'28	
morning set	1744 Aug 03 17:00	3°  810'24			1745 Jul 24 19:09	0°  8	
superior conj	1744 Aug 11 08:56	18°  852'29	1°45'37	superior conj	1745 Jul 26 08:54	3°  818'17	1°40'07
minimum elong	1744 Aug 11 08:31	18°  850'23	1°45'36	minimum elong	1745 Jul 26 07:16	3°  809'45	1°40'00
max. Earth dist.	1744 Aug 16 13:15	29°  805'51	1.36481 AU	max. Earth dist.	1745 Jul 30 02:33	11°  800'17	1.34850 AU
	1744 Aug 17 00:33	0°  8		evening rise	1745 Aug 03 13:52	19°  850'02	
evening rise	1744 Aug 20 11:45	6°  829'31			1745 Aug 09 01:39	0°  8	
desc. node	1744 Sep 03 05:56	29°  841'27		desc. node	1745 Aug 21 02:58	19°  843'01	
	1744 Sep 03 10:45	0°  8			1745 Aug 28 10:48	0°  8	
evening max el	1744 Sep 25 05:51	28°  815'40	25°57'40	evening max el	1745 Sep 07 18:13	11°  851'27	26°51'26
	1744 Sep 27 02:49	0°  8		retrograde	1745 Sep 20 20:42	19°  807'11	
retrograde	1744 Oct 07 17:16	5°  821'34		evening set	1745 Sep 27 14:04	16°  824'19	
evening set	1744 Oct 13 21:51	2°  846'52		min. Earth dist.	1745 Oct 01 13:27	12°  824'34	0.65678 AU
	1744 Oct 16 15:51	30°  R  8		inferior conj	1745 Oct 03 09:53	10°  814'58	-2°04'18
min. Earth dist.	1744 Oct 18 04:15	28°  810'25	0.66713 AU	minimum elong	1745 Oct 03 13:11	10°  805'20	2°03'00
inferior conj	1744 Oct 19 12:44	26°  828'25	-1°06'06	morning rise	1745 Oct 09 12:56	4°  834'31	
minimum elong	1744 Oct 19 14:28	26°  822'59	1°05'22	asc. node	1745 Oct 09 15:00	4°  831'53	
asc. node	1744 Oct 22 17:55	22°  842'43		direct	1745 Oct 12 09:03	3°  850'03	
morning rise	1744 Oct 25 07:26	20°  835'55		morning max el	1745 Oct 18 22:44	7°  824'39	18°20'08
direct	1744 Oct 28 11:51	19°  837'39			1745 Nov 03 12:29	0°  8	
morning max el	1744 Nov 04 09:48	23°  829'18	19°00'02	morning set	1745 Nov 07 04:19	5°  856'38	
	1744 Nov 09 18:50	0°  8		desc. node	1745 Nov 17 02:15	21°  853'18	
morning set	1744 Nov 26 17:01	25°  842'16					
	1744 Nov 29 10:50	0°  8		superior conj	1745 Nov 22 08:39	0°  813'31	-0°34'43
desc. node	1744 Nov 30 05:12	1°  811'57		minimum elong	1745 Nov 22 04:09	29°  855'47	0°34'07
max. Earth dist.	1744 Dec 11 10:47	18°  848'58	1.44936 AU		1745 Nov 22 05:13	0°  8	
				max. Earth dist.	1745 Nov 24 05:57	3°  811'45	1.45109 AU
superior conj	1744 Dec 13 07:20	21°  844'28	-1°20'22	evening rise	1745 Dec 08 15:36	25°  845'33	
minimum elong	1744 Dec 12 22:37	21°  810'08	1°19'25		1745 Dec 11 08:33	0°  8	
	1744 Dec 18 12:22	0°  8		greatest brilliancy	1745 Dec 19 14:41	12°  851'25	-0.8m
evening rise	1744 Dec 28 09:23	15°  855'11		evening max el	1746 Jan 01 03:28	29°  859'50	19°19'32
	1745 Jan 06 01:03	0°  8			1746 Jan 01 03:32	0°  8	

asc. node	1746 Jan 05 14:16	3°≈26'10	evening rise	1746 Nov 18 03:59	4°≈55'27	
retrograde	1746 Jan 08 05:56	4°≈04'31		1746 Dec 04 20:00	0°≈	
evening set	1746 Jan 11 15:53	2°≈56'22	evening max el	1746 Dec 15 07:18	13°≈29'09	20°16'24
	1746 Jan 14 20:09	30°≈	retrograde	1746 Dec 23 03:48	18°≈06'14	
inferior conj	1746 Jan 17 05:07	27°≈03'58 3°13'30	asc. node	1746 Dec 23 11:19	18°≈05'41	
minimum elong	1746 Jan 17 02:40	27°≈11'49 3°13'00	evening set	1746 Dec 26 22:06	16°≈43'58	
min. Earth dist.	1746 Jan 18 12:40	25°≈22'18 0.66213 AU	inferior conj	1747 Jan 01 08:04	10°≈38'25 2°41'09	
morning rise	1746 Jan 22 13:14	20°≈52'02	minimum elong	1747 Jan 01 05:25	10°≈47'22 2°40'23	
direct	1746 Jan 28 20:44	18°≈04'39	min. Earth dist.	1747 Jan 02 02:08	9°≈37'23 0.67115 AU	
morning max el	1746 Feb 10 10:42	25°≈31'39 26°07'37	morning rise	1747 Jan 06 12:35	4°≈25'08	
desc. node	1746 Feb 13 01:25	28°≈18'12	direct	1747 Jan 12 06:12	1°≈52'20	
	1746 Feb 14 13:09	0°≈	morning max el	1747 Jan 23 19:22	8°≈45'38 24°47'25	
	1746 Mar 07 15:22	0°≈	desc. node	1747 Jan 30 22:28	16°≈55'47	
morning set	1746 Mar 18 15:20	19°≈12'04		1747 Feb 09 12:40	0°≈	
max. Earth dist.	1746 Mar 22 14:26	26°≈43'58 1.35332 AU		1747 Feb 28 05:52	0°≈	
	1746 Mar 24 06:28	0°≈	morning set	1747 Feb 28 21:58	1°≈11'02	
			max. Earth dist.	1747 Mar 04 13:43	7°≈46'39 1.37186 AU	
superior conj	1746 Mar 27 16:42	6°≈52'20 -1°06'54	superior conj	1747 Mar 11 02:52	20°≈11'31 -1°32'08	
minimum elong	1746 Mar 27 20:01	7°≈09'13 1°06'21	minimum elong	1747 Mar 11 07:03	20°≈31'53 1°31'36	
asc. node	1746 Apr 03 13:35	21°≈02'34		1747 Mar 16 01:38	0°≈	
evening rise	1746 Apr 04 12:05	22°≈58'20	evening rise	1747 Mar 19 14:16	7°≈04'18	
	1746 Apr 07 23:47	0°≈	asc. node	1747 Mar 21 10:38	10°≈44'31	
evening max el	1746 Apr 22 21:48	22°≈49'10 20°26'51		1747 Apr 01 15:08	0°≈	
retrograde	1746 May 03 19:45	28°≈06'37	evening max el	1747 Apr 05 13:16	4°≈32'34 19°22'15	
evening set	1746 May 05 21:26	27°≈55'59	retrograde	1747 Apr 14 18:35	8°≈59'55	
desc. node	1746 May 12 00:38	25°≈40'01	evening set	1747 Apr 16 20:41	8°≈47'12	
inferior conj	1746 May 15 01:15	23°≈58'05 -0°52'51	inferior conj	1747 Apr 25 07:39	4°≈39'39 1°00'55	
minimum elong	1746 May 14 22:46	24°≈01'43 0°51'57	minimum elong	1747 Apr 25 10:06	4°≈35'38 1°00'05	
min. Earth dist.	1746 May 16 10:47	23°≈09'23 0.55101 AU	min. Earth dist.	1747 Apr 28 01:28	2°≈52'08 0.56128 AU	
morning rise	1746 May 23 23:00	19°≈44'50	desc. node	1747 Apr 28 21:38	2°≈20'42	
direct	1746 May 27 16:16	19°≈14'59	morning rise	1747 May 03 20:38	29°≈53'21	
morning max el	1746 Jun 10 02:16	25°≈46'14 23°24'32		1747 May 03 13:15	30°≈	
	1746 Jun 14 01:59	0°≈	direct	1747 May 08 13:10	29°≈03'10	
asc. node	1746 Jun 30 12:52	26°≈39'44		1747 May 13 12:34	0°≈	
	1746 Jul 02 04:08	0°≈	morning max el	1747 May 22 16:53	6°≈14'20 25°05'07	
morning set	1746 Jul 03 13:28	2°≈53'44		1747 Jun 08 22:15	0°≈	
superior conj	1746 Jul 10 14:58	18°≈02'23 1°28'47	asc. node	1747 Jun 17 09:55	16°≈29'46	
minimum elong	1746 Jul 10 12:41	17°≈50'08 1°28'32	morning set	1747 Jun 18 01:21	17°≈50'55	
max. Earth dist.	1746 Jul 13 01:13	23°≈12'43 1.33599 AU		1747 Jun 23 16:20	0°≈	
	1746 Jul 16 07:33	0°≈	superior conj	1747 Jun 25 00:47	2°≈57'20 1°12'44	
evening rise	1746 Jul 18 04:44	3°≈48'03	minimum elong	1747 Jun 24 22:23	2°≈44'13 1°12'21	
	1746 Aug 01 19:49	0°≈	max. Earth dist.	1747 Jun 26 07:40	5°≈45'27 1.32747 AU	
desc. node	1746 Aug 07 23:59	9°≈16'12	evening rise	1747 Jul 02 04:41	18°≈13'02	
evening max el	1746 Aug 21 05:56	25°≈11'59 27°21'36		1747 Jul 08 04:33	0°≈	
	1746 Aug 27 06:21	0°≈	desc. node	1747 Jul 25 20:59	28°≈09'07	
retrograde	1746 Sep 03 18:16	2°≈30'10		1747 Jul 27 07:44	0°≈	
evening set	1746 Sep 10 20:47	29°≈47'44	evening max el	1747 Aug 03 14:56	8°≈04'43 27°22'12	
	1746 Sep 10 14:14	30°≈	retrograde	1747 Aug 17 09:38	15°≈21'40	
min. Earth dist.	1746 Sep 14 14:02	26°≈23'26 0.64288 AU	evening set	1747 Aug 24 14:34	12°≈51'44	
inferior conj	1746 Sep 16 23:16	23°≈51'31 -3°01'22	min. Earth dist.	1747 Aug 28 04:35	9°≈56'40 0.62558 AU	
minimum elong	1746 Sep 17 03:56	23°≈39'06 2°59'47	inferior conj	1747 Aug 31 02:05	7°≈11'52 -3°53'34	
morning rise	1746 Sep 23 12:06	18°≈26'31	minimum elong	1747 Aug 31 07:22	6°≈59'18 3°52'14	
direct	1746 Sep 26 02:19	17°≈52'17	morning rise	1747 Sep 07 01:37	2°≈05'35	
asc. node	1746 Sep 26 12:05	17°≈53'08	direct	1747 Sep 09 12:28	1°≈38'26	
morning max el	1746 Oct 02 14:33	21°≈18'38 17°57'15	asc. node	1747 Sep 13 09:07	2°≈47'32	
	1746 Oct 09 05:53	0°≈	morning max el	1747 Sep 16 06:23	5°≈04'59 17°52'15	
morning set	1746 Oct 19 19:37	17°≈32'35	morning set	1747 Oct 02 09:20	0°≈13'03	
	1746 Oct 27 05:13	0°≈		1747 Oct 02 06:25	0°≈	
superior conj	1746 Nov 01 23:06	9°≈25'01 0°13'31	superior conj	1747 Oct 13 15:28	19°≈54'05 0°53'53	
minimum elong	1746 Nov 02 00:39	9°≈31'17 0°13'17	minimum elong	1747 Oct 13 19:55	20°≈12'56 0°53'18	
behind sun begin	1746 Nov 01 18:45	9°≈07'25		1747 Oct 19 17:18	0°≈	
behind sun end	1746 Nov 02 06:32	9°≈55'07	max. Earth dist.	1747 Oct 20 15:34	1°≈30'33 1.43323 AU	
desc. node	1746 Nov 03 23:16	12°≈39'10	desc. node	1747 Oct 21 20:18	3°≈26'40	
max. Earth dist.	1746 Nov 07 00:39	17°≈31'58 1.44544 AU	evening rise	1747 Oct 28 12:50	14°≈01'34	
	1746 Nov 14 23:31	0°≈				

	1747 Nov 08 01:13	0°♊			1748 Nov 01 01:14	0°♊	
evening max el	1747 Nov 28 05:25	26°♊58'58	21°25'40	evening max el	1748 Nov 09 22:26	10°♊31'10	22°43'10
	1747 Dec 01 14:19	0°♋		retrograde	1748 Nov 19 20:26	16°♊24'34	
retrograde	1747 Dec 07 01:12	2°♋13'50		evening set	1748 Nov 24 13:01	14°♊30'03	
asc. node	1747 Dec 10 08:21	1°♋13'32		asc. node	1748 Nov 26 05:22	12°♊52'28	
evening set	1747 Dec 11 05:41	0°♋36'00		inferior conj	1748 Nov 29 21:37	8°♊08'41	1°14'09
	1747 Dec 11 22:36	30°♌♊		minimum elong	1748 Nov 29 20:00	8°♊14'19	1°13'29
inferior conj	1747 Dec 16 14:13	24°♊20'40	2°00'49	min. Earth dist.	1748 Nov 29 16:51	8°♊25'10	0.67812 AU
minimum elong	1747 Dec 16 11:52	24°♊28'48	1°59'59	morning rise	1748 Dec 05 02:51	1°♊58'30	
min. Earth dist.	1747 Dec 16 20:21	23°♊59'28	0.67639 AU	direct	1748 Dec 09 14:43	0°♊08'44	
morning rise	1747 Dec 21 17:52	18°♊07'54		morning max el	1748 Dec 18 16:55	5°♊29'20	21°52'48
direct	1747 Dec 26 20:29	15°♊55'28		desc. node	1749 Jan 03 16:33	26°♊04'47	
morning max el	1748 Jan 06 04:20	22°♊04'09	23°19'18		1749 Jan 06 09:01	0°♋	
	1748 Jan 13 01:37	0°♋		morning set	1749 Jan 20 04:55	21°♋15'26	
desc. node	1748 Jan 17 19:30	6°♋15'11			1749 Jan 25 13:40	0°♌	
	1748 Feb 02 20:32	0°♌		max. Earth dist.	1749 Jan 26 06:35	1°♌10'22	1.41410 AU
morning set	1748 Feb 10 04:00	11°♌55'20					
max. Earth dist.	1748 Feb 14 08:23	19°♌04'37	1.39297 AU	superior conj	1749 Feb 02 23:36	14°♌22'36	-2°03'40
	1748 Feb 20 10:58	0°♍		minimum elong	1749 Feb 03 01:04	14°♌29'01	2°03'38
					1749 Feb 11 15:01	0°♍	
superior conj	1748 Feb 21 22:49	2°♍45'27	-1°52'21	evening rise	1749 Feb 13 14:31	3°♍39'30	
minimum elong	1748 Feb 22 02:40	3°♍03'23	1°52'03	asc. node	1749 Feb 22 04:41	19°♍03'39	
evening rise	1748 Mar 02 08:13	20°♍40'40		evening max el	1749 Mar 01 22:57	29°♍41'26	18°13'01
asc. node	1748 Mar 07 07:39	0°♎07'03			1749 Mar 02 06:42	0°♎	
	1748 Mar 07 06:07	0°♎		retrograde	1749 Mar 08 21:36	3°♎10'34	
evening max el	1748 Mar 18 14:41	16°♎52'43	18°37'38	evening set	1749 Mar 11 11:13	2°♎42'48	
retrograde	1748 Mar 26 10:54	20°♎42'43			1749 Mar 15 23:38	30°♏♎	
evening set	1748 Mar 28 18:36	20°♎23'46		inferior conj	1749 Mar 18 09:26	27°♏56'27	3°18'36
inferior conj	1748 Apr 05 10:04	15°♎58'20	2°26'44	minimum elong	1749 Mar 18 12:24	27°♏49'51	3°18'07
minimum elong	1748 Apr 05 14:08	15°♎50'33	2°25'39	min. Earth dist.	1749 Mar 21 18:19	24°♏57'29	0.59960 AU
min. Earth dist.	1748 Apr 08 19:21	13°♎23'55	0.57863 AU	morning rise	1749 Mar 25 11:21	22°♏13'45	
morning rise	1748 Apr 13 06:35	10°♎39'16		direct	1749 Apr 01 00:25	20°♏13'53	
desc. node	1748 Apr 14 18:40	10°♎01'52		desc. node	1749 Apr 01 15:41	20°♏15'00	
direct	1748 Apr 19 00:29	9°♎16'20		morning max el	1749 Apr 15 07:36	28°♏02'55	27°28'11
morning max el	1748 May 03 09:27	16°♎52'31	26°30'53		1749 Apr 17 05:06	0°♏	
	1748 May 14 04:13	0°♐			1749 May 07 20:37	0°♐	
	1748 May 31 04:43	0°♑		morning set	1749 May 16 19:57	17°♐25'16	
morning set	1748 Jun 01 12:04	2°♑43'20		asc. node	1749 May 21 03:58	26°♐38'43	
asc. node	1748 Jun 03 06:56	6°♑30'58			1749 May 22 16:53	0°♒	
superior conj	1748 Jun 08 12:21	17°♒55'20	0°52'45	superior conj	1749 May 23 23:57	2°♒50'26	0°29'34
minimum elong	1748 Jun 08 10:18	17°♒44'03	0°52'22	minimum elong	1749 May 23 22:40	2°♒43'22	0°29'18
max. Earth dist.	1748 Jun 08 18:44	18°♒30'23	1.32290 AU	max. Earth dist.	1749 May 23 06:58	1°♒17'11	1.32218 AU
	1748 Jun 14 01:39	0°♓		evening rise	1749 May 30 20:38	17°♒45'31	
evening rise	1748 Jun 15 10:45	2°♓54'44			1749 Jun 05 21:53	0°♓	
	1748 Jun 30 01:23	0°♑			1749 Jun 25 22:32	0°♑	
desc. node	1748 Jul 11 17:59	16°♑03'59		evening max el	1749 Jun 27 15:56	1°♑43'30	25°46'01
evening max el	1748 Jul 15 18:50	20°♑17'13	26°49'54	desc. node	1749 Jun 28 14:59	2°♑36'58	
retrograde	1748 Jul 29 17:40	27°♑31'10		retrograde	1749 Jul 11 16:23	8°♑52'52	
evening set	1748 Aug 05 14:56	25°♑27'38		evening set	1749 Jul 17 17:15	7°♑26'15	
min. Earth dist.	1748 Aug 09 08:52	22°♑49'13	0.60571 AU	min. Earth dist.	1749 Jul 22 04:17	4°♑47'14	0.58515 AU
inferior conj	1748 Aug 12 14:54	20°♑06'43	-4°35'02	inferior conj	1749 Jul 25 10:12	2°♑26'33	-4°56'06
minimum elong	1748 Aug 12 19:14	19°♑57'38	4°34'23	minimum elong	1749 Jul 25 11:12	2°♑24'45	4°56'04
morning rise	1748 Aug 20 01:26	15°♑21'48			1749 Jul 29 00:20	30°♒♓	
direct	1748 Aug 22 11:38	14°♑59'06		morning rise	1749 Aug 02 07:26	28°♓04'11	
morning max el	1748 Aug 29 19:02	18°♑34'43	18°06'16	direct	1749 Aug 04 19:36	27°♓43'55	
asc. node	1748 Aug 30 06:09	19°♑02'22			1749 Aug 11 02:08	0°♑	
	1748 Sep 07 02:04	0°♒		morning max el	1749 Aug 13 01:19	1°♑38'50	18°40'35
morning set	1748 Sep 14 15:25	13°♒40'21		asc. node	1749 Aug 17 03:11	6°♑22'34	
	1748 Sep 23 11:45	0°♓		morning set	1749 Aug 29 09:04	27°♑41'16	
					1749 Aug 30 13:34	0°♒	
superior conj	1748 Sep 24 10:07	1°♓40'18	1°22'19				
minimum elong	1748 Sep 24 14:17	1°♓58'55	1°21'54	superior conj	1749 Sep 07 02:09	14°♒29'41	1°39'00
max. Earth dist.	1748 Oct 02 01:09	14°♓53'11	1.41598 AU	minimum elong	1749 Sep 07 04:35	14°♒41'10	1°38'51
evening rise	1748 Oct 07 11:02	23°♓46'57		max. Earth dist.	1749 Sep 14 06:21	27°♒34'09	1.39596 AU
desc. node	1748 Oct 07 17:20	24°♓12'16			1749 Sep 15 15:44	0°♓	
	1748 Oct 11 09:04	0°♔		evening rise	1749 Sep 18 08:12	4°♓36'08	

desc. node	1749 Sep 24 14:21	14°♄52'03		evening rise	1750 Aug 31 05:07	16°♊32'18	
	1749 Oct 04 12:59	0°♌			1750 Sep 08 02:45	0°♌	
evening max el	1749 Oct 23 11:57	24°♌06'51	24°03'11	desc. node	1750 Sep 11 11:22	5°♌21'53	
	1749 Oct 31 13:36	0°♍			1750 Sep 29 00:11	0°♌	
retrograde	1749 Nov 03 12:12	0°♍34'51		evening max el	1750 Oct 05 23:58	7°♌46'00	25°18'51
	1749 Nov 06 06:12	30°♌		retrograde	1750 Oct 17 23:43	14°♌40'52	
evening set	1749 Nov 08 18:27	28°♌23'10		evening set	1750 Oct 23 20:22	12°♌13'22	
asc. node	1749 Nov 13 02:24	23°♌27'45		min. Earth dist.	1750 Oct 28 07:02	7°♌16'32	0.67159 AU
min. Earth dist.	1749 Nov 13 13:12	22°♌51'31	0.67652 AU	inferior conj	1750 Oct 29 09:08	5°♌51'56	-0°33'02
inferior conj	1749 Nov 14 04:30	21°♌59'44	0°22'25	minimum elong	1750 Oct 29 09:58	5°♌49'12	0°32'40
minimum elong	1749 Nov 14 03:58	22°♌01'34	0°22'11	asc. node	1750 Oct 30 23:27	3°♌50'09	
morning rise	1749 Nov 19 13:27	15°♌54'32		morning rise	1750 Nov 03 23:46	29°♌54'14	
direct	1749 Nov 23 11:42	14°♌26'54			1750 Nov 03 20:20	30°♌	
morning max el	1749 Dec 01 12:21	19°♌04'46	20°35'01	direct	1750 Nov 07 10:06	28°♌46'18	
	1749 Dec 10 09:12	0°♍			1750 Nov 11 04:44	0°♌	
desc. node	1749 Dec 21 13:35	16°♍15'46		morning max el	1750 Nov 14 15:46	2°♌51'33	19°30'22
morning set	1749 Dec 30 05:52	29°♍31'36		greatest brilliancy	1750 Nov 28 02:43	20°♌53'22	-0.7m
	1749 Dec 30 13:10	0°♎			1750 Dec 04 02:17	0°♍	
max. Earth dist.	1750 Jan 08 12:48	14°♎13'29	1.43230 AU	desc. node	1750 Dec 08 10:40	6°♍42'25	
				morning set	1750 Dec 09 04:03	7°♍49'41	
superior conj	1750 Jan 15 00:03	24°♎50'38	-2°01'14	max. Earth dist.	1750 Dec 22 02:18	28°♍02'19	1.44510 AU
minimum elong	1750 Jan 14 20:40	24°♎36'32	2°01'07		1750 Dec 23 07:58	0°♎	
	1750 Jan 18 01:33	0°♏					
evening rise	1750 Jan 27 05:06	15°♏52'03		superior conj	1750 Dec 25 22:13	4°♎08'12	-1°40'41
	1750 Feb 04 08:05	0°♐		minimum elong	1750 Dec 25 14:04	3°♎35'34	1°40'00
asc. node	1750 Feb 09 01:43	7°♐25'35		evening rise	1751 Jan 08 23:45	27°♎11'40	
evening max el	1750 Feb 13 10:46	12°♐48'57	18°07'55		1751 Jan 10 15:55	0°♏	
retrograde	1750 Feb 19 23:10	16°♐12'42		asc. node	1751 Jan 26 22:45	25°♏03'00	
evening set	1750 Feb 22 17:56	15°♐34'52		evening max el	1751 Jan 27 23:16	26°♏08'34	18°21'43
inferior conj	1750 Mar 01 02:40	10°♐27'36	3°41'30	retrograde	1751 Feb 03 11:02	29°♏40'03	
minimum elong	1750 Mar 01 03:36	10°♐25'12	3°41'28	evening set	1751 Feb 06 10:54	28°♏51'22	
min. Earth dist.	1750 Mar 04 00:57	7°♐29'07	0.62077 AU	inferior conj	1751 Feb 12 09:46	23°♏24'48	3°42'35
morning rise	1750 Mar 07 11:58	4°♐30'10		minimum elong	1751 Feb 12 08:54	23°♏27'16	3°42'33
direct	1750 Mar 14 10:02	1°♐59'47		min. Earth dist.	1751 Feb 14 17:14	20°♏47'00	0.63971 AU
desc. node	1750 Mar 19 12:43	3°♐12'28		morning rise	1751 Feb 18 06:15	17°♏18'46	
morning max el	1750 Mar 28 11:52	9°♐54'21	27°49'26	direct	1751 Feb 25 03:48	14°♏30'40	
	1750 Apr 13 03:00	0°♑		desc. node	1751 Mar 06 09:48	18°♏26'21	
	1750 Apr 30 01:20	0°♒		morning max el	1751 Mar 10 20:26	22°♏23'55	27°33'47
morning set	1750 Apr 30 23:00	1°♒49'39			1751 Mar 17 13:27	0°♐	
max. Earth dist.	1750 May 06 16:27	13°♒51'59	1.32529 AU		1751 Apr 06 07:53	0°♑	
				morning set	1751 Apr 14 18:42	15°♑48'37	
superior conj	1750 May 08 09:52	17°♒36'24	0°03'55	max. Earth dist.	1751 Apr 19 19:11	26°♑02'00	1.33257 AU
minimum elong	1750 May 08 09:41	17°♒35'24	0°03'53		1751 Apr 21 16:22	0°♒	
behind sun begin	1750 May 08 04:40	17°♒08'09					
behind sun end	1750 May 08 14:42	18°♒02'41		superior conj	1751 Apr 22 16:17	2°♒07'20	-0°23'25
asc. node	1750 May 08 01:01	16°♒48'20		minimum elong	1751 Apr 22 17:27	2°♒13'31	0°23'11
	1750 May 14 02:41	0°♓		asc. node	1751 Apr 24 22:04	6°♒55'40	
evening rise	1750 May 15 08:17	2°♓38'00		evening rise	1751 Apr 29 19:53	17°♒25'39	
	1750 May 30 05:06	0°♔			1751 May 06 01:49	0°♓	
evening max el	1750 Jun 09 06:59	12°♔29'29	24°18'59	evening max el	1751 May 21 21:25	22°♓58'30	22°42'57
desc. node	1750 Jun 15 11:58	17°♔16'24		desc. node	1751 Jun 02 09:00	29°♓25'48	
retrograde	1750 Jun 23 03:36	19°♔28'57		retrograde	1751 Jun 04 02:38	29°♓32'40	
evening set	1750 Jun 27 20:17	18°♔39'48		evening set	1751 Jun 07 08:13	29°♓09'41	
min. Earth dist.	1750 Jul 03 17:54	15°♔43'19	0.56663 AU	min. Earth dist.	1751 Jun 15 05:35	25°♓42'14	0.55360 AU
inferior conj	1750 Jul 06 09:31	14°♔03'14	-4°43'20	inferior conj	1751 Jun 16 14:01	24°♓55'48	-3°44'26
minimum elong	1750 Jul 06 05:15	14°♔09'59	4°42'50	minimum elong	1751 Jun 16 06:15	25°♓06'57	3°42'30
morning rise	1750 Jul 14 16:55	10°♔01'06		morning rise	1751 Jun 25 06:36	21°♓03'49	
direct	1750 Jul 17 08:51	9°♔42'04		direct	1751 Jun 28 03:43	20°♓44'38	
morning max el	1750 Jul 26 22:23	14°♔08'37	19°36'13	morning max el	1751 Jul 09 08:19	25°♓56'08	20°52'43
asc. node	1750 Aug 04 00:15	24°♔34'14			1751 Jul 13 03:04	0°♕	
	1750 Aug 07 04:08	0°♖		asc. node	1751 Jul 21 21:20	13°♕24'33	
morning set	1750 Aug 13 10:47	12°♖06'40		morning set	1751 Jul 28 17:50	26°♕48'12	
					1751 Jul 30 06:55	0°♗	
superior conj	1750 Aug 21 10:06	28°♗07'23	1°45'37				
minimum elong	1750 Aug 21 10:38	28°♗10'00	1°45'36	superior conj	1751 Aug 05 05:18	12°♗19'03	1°44'04
	1750 Aug 22 09:02	0°♘		minimum elong	1751 Aug 05 04:18	12°♗13'56	1°44'02
max. Earth dist.	1750 Aug 27 10:32	9°♘40'02	1.37566 AU	max. Earth dist.	1751 Aug 09 18:56	21°♗30'29	1.35739 AU

evening rise	1751 Aug 13 21:54	29° Ω 25'30		max. Earth dist.	1752 Jul 22 11:54	3° Ω 29'57	1.34263 AU
	1751 Aug 14 05:17	0° \mathbb{M}		evening rise	1752 Jul 27 05:57	13° Ω 03'31	
desc. node	1751 Aug 29 08:23	25° \mathbb{M} 35'43			1752 Aug 05 11:54	0° \mathbb{M}	
	1751 Sep 01 07:08	0° Ω		desc. node	1752 Aug 15 05:22	15° \mathbb{M} 26'18	
evening max el	1751 Sep 18 11:54	21° Ω 24'22	26°22'49		1752 Aug 26 08:03	0° Ω	
retrograde	1751 Oct 01 06:23	28° Ω 36'00		evening max el	1752 Aug 31 00:02	4° Ω 54'41	27°07'29
evening set	1751 Oct 07 16:47	25° Ω 56'37		retrograde	1752 Sep 13 07:37	12° Ω 13'01	
min. Earth dist.	1751 Oct 11 20:01	21° Ω 36'01	0.66322 AU	evening set	1752 Sep 20 05:21	9° Ω 28'58	
inferior conj	1751 Oct 13 09:35	19° Ω 41'26	-1°30'45	min. Earth dist.	1752 Sep 24 01:53	5° Ω 44'34	0.65131 AU
minimum elong	1751 Oct 13 11:59	19° Ω 34'07	1°29'45	inferior conj	1752 Sep 26 03:45	3° Ω 24'23	-2°28'49
asc. node	1751 Oct 17 20:32	14° Ω 54'59		minimum elong	1752 Sep 26 07:41	3° Ω 13'19	2°27'21
morning rise	1751 Oct 19 07:41	13° Ω 53'57			1752 Sep 29 09:50	30° \mathbb{R} \mathbb{M}	
direct	1751 Oct 22 08:14	13° Ω 02'09		morning rise	1752 Oct 02 10:50	27° \mathbb{M} 50'06	
morning max el	1751 Oct 29 01:54	16° Ω 45'23	18°41'00	asc. node	1752 Oct 03 17:36	27° \mathbb{M} 21'39	
	1751 Nov 07 23:53	0° \mathbb{M}		direct	1752 Oct 05 04:00	27° \mathbb{M} 10'33	
morning set	1751 Nov 18 22:34	17° \mathbb{M} 13'10			1752 Oct 10 23:22	0° Ω	
desc. node	1751 Nov 25 07:42	27° \mathbb{M} 19'16		morning max el	1752 Oct 11 16:25	0° Ω 40'57	18°08'10
	1751 Nov 27 00:29	0° \mathbb{X}		morning set	1752 Oct 29 22:14	28° Ω 03'33	
					1752 Oct 31 02:24	0° \mathbb{M}	
superior conj	1751 Dec 05 01:47	12° \mathbb{X} 39'33	-1°02'07	desc. node	1752 Nov 11 04:42	18° \mathbb{M} 02'39	
minimum elong	1751 Dec 04 18:12	12° \mathbb{X} 09'45	1°01'12				
max. Earth dist.	1751 Dec 04 19:53	12° \mathbb{X} 16'23	1.45101 AU	superior conj	1752 Nov 13 06:19	21° \mathbb{M} 20'20	-0°13'50
	1751 Dec 16 01:32	0° \mathbb{Z}		minimum elong	1752 Nov 13 04:34	21° \mathbb{M} 13'21	0°13'36
evening rise	1751 Dec 20 19:12	7° \mathbb{Z} 33'07		behind sun begin	1752 Nov 12 22:35	20° \mathbb{M} 49'36	
greatest brilliancy	1751 Dec 28 13:04	19° \mathbb{Z} 56'26	-0.9m	behind sun end	1752 Nov 13 10:33	21° \mathbb{M} 37'06	
	1752 Jan 04 00:54	0° \approx		max. Earth dist.	1752 Nov 16 14:36	26° \mathbb{M} 37'52	1.44957 AU
evening max el	1752 Jan 11 09:56	9° \approx 34'47	18°53'37		1752 Nov 18 18:02	0° \mathbb{X}	
asc. node	1752 Jan 13 19:47	11° \approx 43'04		evening rise	1752 Nov 29 16:31	17° \mathbb{X} 02'23	
retrograde	1752 Jan 18 05:08	13° \approx 24'55			1752 Dec 08 01:57	0° \mathbb{Z}	
evening set	1752 Jan 21 10:56	12° \approx 24'23		greatest brilliancy	1752 Dec 12 14:55	6° \mathbb{Z} 53'46	-0.7m
inferior conj	1752 Jan 27 02:58	6° \approx 40'47	3°27'42	evening max el	1752 Dec 24 16:43	23° \mathbb{Z} 03'41	19°42'04
minimum elong	1752 Jan 27 00:56	6° \approx 47'09	3°27'23	asc. node	1752 Dec 30 16:50	27° \mathbb{Z} 10'41	
min. Earth dist.	1752 Jan 28 19:03	4° \approx 36'27	0.65506 AU	retrograde	1753 Jan 01 02:16	27° \mathbb{Z} 21'25	
morning rise	1752 Feb 01 14:33	0° \approx 30'05		evening set	1753 Jan 04 15:29	26° \mathbb{Z} 07'38	
	1752 Feb 02 04:53	30° \mathbb{R} \mathbb{Z}		inferior conj	1753 Jan 10 03:06	20° \mathbb{Z} 09'29	3°00'53
direct	1752 Feb 08 04:34	27° \mathbb{Z} 38'34		minimum elong	1753 Jan 10 00:31	20° \mathbb{Z} 18'02	3°00'15
	1752 Feb 14 22:09	0° \approx		min. Earth dist.	1753 Jan 11 04:49	18° \mathbb{Z} 44'41	0.66645 AU
desc. node	1752 Feb 21 06:53	5° \approx 21'12		morning rise	1753 Jan 15 09:19	13° \mathbb{Z} 56'38	
morning max el	1752 Feb 21 06:22	5° \approx 19'55	26°46'13	direct	1753 Jan 21 11:15	11° \mathbb{Z} 14'09	
	1752 Mar 11 03:55	0° \mathbb{X}		morning max el	1753 Feb 02 15:23	18° \mathbb{Z} 28'57	25°35'01
morning set	1752 Mar 28 03:46	29° \mathbb{X} 12'16		desc. node	1753 Feb 07 03:55	23° \mathbb{Z} 27'25	
	1752 Mar 28 13:46	0° \mathbb{Y}			1753 Feb 12 09:07	0° \approx	
max. Earth dist.	1752 Apr 01 11:25	7° \mathbb{Y} 38'31	1.34436 AU		1753 Mar 04 04:49	0° \mathbb{X}	
				morning set	1753 Mar 10 21:36	11° \mathbb{X} 46'18	
superior conj	1752 Apr 05 17:06	16° \mathbb{Y} 17'06	-0°51'15	max. Earth dist.	1753 Mar 14 15:43	18° \mathbb{X} 45'12	1.36071 AU
minimum elong	1752 Apr 05 19:40	16° \mathbb{Y} 30'28	0°50'46				
asc. node	1752 Apr 10 19:07	26° \mathbb{Y} 56'53		superior conj	1753 Mar 20 09:31	29° \mathbb{X} 57'09	-1°18'02
	1752 Apr 12 06:02	0° \mathbb{X}		minimum elong	1753 Mar 20 13:18	0° \mathbb{Y} 16'02	1°17'27
evening rise	1752 Apr 13 05:32	2° \mathbb{X} 02'31			1753 Mar 20 10:06	0° \mathbb{Y}	
	1752 Apr 29 09:38	0° \mathbb{I}		evening rise	1753 Mar 28 11:05	16° \mathbb{Y} 21'18	
evening max el	1752 May 02 18:58	3° \mathbb{I} 43'34	21°12'31	asc. node	1753 Mar 28 16:08	16° \mathbb{Y} 46'58	
retrograde	1752 May 14 16:43	9° \mathbb{I} 32'00			1753 Apr 04 12:04	0° \mathbb{X}	
evening set	1752 May 16 23:11	9° \mathbb{I} 20'05		evening max el	1753 Apr 15 03:53	15° \mathbb{X} 04'01	19°57'04
desc. node	1752 May 19 06:02	8° \mathbb{I} 45'37		retrograde	1753 Apr 25 08:02	19° \mathbb{X} 58'36	
inferior conj	1752 May 26 08:17	5° \mathbb{I} 21'07	-2°02'03	evening set	1753 Apr 27 08:47	19° \mathbb{X} 47'44	
minimum elong	1752 May 26 02:38	5° \mathbb{I} 29'04	2°00'06	inferior conj	1753 May 06 06:19	15° \mathbb{X} 47'41	-0°02'21
min. Earth dist.	1752 May 26 18:00	5° \mathbb{I} 07'26	0.54910 AU	minimum elong	1753 May 06 06:13	15° \mathbb{X} 47'51	0°02'19
morning rise	1752 Jun 04 06:18	1° \mathbb{I} 20'46		transit middle	1753 May 06 06:13	15° \mathbb{X} 47'51	0°02'19
direct	1752 Jun 07 13:33	0° \mathbb{I} 57'08		transit begin	1753 May 06 02:16	15° \mathbb{X} 53'50	
morning max el	1752 Jun 20 07:28	7° \mathbb{I} 01'04	22°26'14	transit end	1753 May 06 10:09	15° \mathbb{X} 41'51	
	1752 Jul 06 08:15	0° \mathbb{O}		desc. node	1753 May 06 03:05	15° \mathbb{X} 52'36	
asc. node	1752 Jul 07 18:24	2° \mathbb{O} 43'51		min. Earth dist.	1753 May 08 07:39	14° \mathbb{X} 32'58	0.55433 AU
morning set	1752 Jul 12 04:07	11° \mathbb{O} 39'52		morning rise	1753 May 15 01:31	11° \mathbb{X} 21'07	
				direct	1753 May 19 04:07	10° \mathbb{X} 43'58	
superior conj	1752 Jul 19 08:13	26° \mathbb{O} 53'53	1°35'57	morning max el	1753 Jun 01 23:15	17° \mathbb{X} 34'25	24°08'03
minimum elong	1752 Jul 19 06:15	26° \mathbb{O} 43'26	1°35'47		1753 Jun 12 02:39	0° \mathbb{I}	
	1752 Jul 20 19:33	0° Ω		asc. node	1753 Jun 24 15:25	22° \mathbb{I} 23'55	

morning set	1753 Jun 26 15:50	26°II35'46			1754 Jun 05 10:33	0°II	
	1753 Jun 28 06:15	0°☾		morning set	1754 Jun 11 03:23	11°II30'51	
				asc. node	1754 Jun 11 12:26	12°II18'44	
superior conj	1753 Jul 03 16:07	11°☾42'49	1°22'30				
minimum elong	1753 Jul 03 13:43	11°☾29'51	1°22'11	superior conj	1754 Jun 18 02:51	26°II38'53	1°04'41
max. Earth dist.	1753 Jul 05 14:02	15°☾50'09	1.33188 AU	minimum elong	1754 Jun 18 00:32	26°II26'14	1°04'17
evening rise	1753 Jul 11 01:04	27°☾13'51		max. Earth dist.	1754 Jun 18 23:01	28°II29'23	1.32510 AU
	1753 Jul 12 10:15	0°♊			1754 Jun 19 15:36	0°☾	
	1753 Jul 29 18:42	0°♋		evening rise	1754 Jun 25 03:55	11°☾46'23	
desc. node	1753 Aug 02 02:23	4°♋43'42			1754 Jul 04 14:52	0°♊	
evening max el	1753 Aug 13 11:05	18°♋05'26	27°25'52	desc. node	1754 Jul 19 23:24	23°♊13'48	
retrograde	1753 Aug 27 02:43	25°♋23'15			1754 Jul 26 00:53	0°♋	
evening set	1753 Sep 03 07:04	22°♋44'52		evening max el	1754 Jul 26 18:24	0°♋42'19	27°12'38
min. Earth dist.	1753 Sep 06 22:32	19°♋33'45	0.63586 AU	retrograde	1754 Aug 09 14:45	7°♋57'09	
inferior conj	1753 Sep 09 13:02	16°♋55'06	-3°24'23	evening set	1754 Aug 16 17:57	5°♋37'01	
minimum elong	1753 Sep 09 18:05	16°♋42'13	3°22'51	min. Earth dist.	1754 Aug 20 08:35	2°♋50'55	0.61734 AU
morning rise	1753 Sep 16 06:18	11°♋37'21		inferior conj	1754 Aug 23 10:18	0°♋05'17	-4°13'00
direct	1753 Sep 18 18:44	11°♋06'28		minimum elong	1754 Aug 23 15:26	29°♋53'42	4°11'54
asc. node	1753 Sep 20 14:39	11°♋23'05			1754 Aug 23 12:38	30°♋♊	
morning max el	1753 Sep 25 08:32	14°♋32'10	17°52'49	morning rise	1754 Aug 30 14:28	25°♋07'36	
	1753 Oct 06 02:32	0°♌		direct	1754 Sep 02 00:52	24°♋42'29	
morning set	1753 Oct 11 23:58	10°♌09'51		asc. node	1754 Sep 07 11:40	26°♋52'49	
	1753 Oct 23 15:49	0°♍		morning max el	1754 Sep 08 23:19	28°♋11'34	17°55'52
					1754 Sep 10 15:34	0°♋	
superior conj	1753 Oct 24 07:06	1°♍03'05	0°31'57	morning set	1754 Sep 24 21:20	23°♋12'04	
minimum elong	1753 Oct 24 10:22	1°♍16'30	0°31'31		1754 Sep 28 15:11	0°♌	
desc. node	1753 Oct 29 01:43	8°♍49'36					
max. Earth dist.	1753 Oct 30 08:04	10°♍51'23	1.44102 AU	superior conj	1754 Oct 05 11:03	12°♌05'46	1°07'27
evening rise	1753 Nov 09 01:22	26°♍06'05		minimum elong	1754 Oct 05 15:40	12°♌25'45	1°06'55
	1753 Nov 11 14:20	0°♎		max. Earth dist.	1754 Oct 12 21:30	24°♌38'31	1.42640 AU
	1753 Dec 02 04:59	0°♏		desc. node	1754 Oct 15 22:43	29°♌36'22	
evening max el	1753 Dec 07 18:18	6°♏34'06	20°44'35		1754 Oct 16 04:36	0°♍	
retrograde	1753 Dec 16 00:03	11°♏26'19		evening rise	1754 Oct 19 14:08	5°♍24'24	
asc. node	1753 Dec 17 13:53	11°♏12'24			1754 Nov 04 22:39	0°♎	
evening set	1753 Dec 19 22:30	9°♏57'38		evening max el	1754 Nov 20 14:12	20°♎04'56	21°57'52
inferior conj	1753 Dec 25 07:41	3°♏47'45	2°24'55	retrograde	1754 Nov 29 20:39	25°♎35'50	
minimum elong	1753 Dec 25 05:06	3°♏56'35	2°24'05	evening set	1754 Dec 04 06:11	23°♎50'48	
min. Earth dist.	1753 Dec 25 20:33	3°♏03'46	0.67391 AU	asc. node	1754 Dec 04 10:55	23°♎41'04	
	1753 Dec 28 04:50	30°♎♏		inferior conj	1754 Dec 09 14:35	17°♎32'28	1°41'42
morning rise	1753 Dec 30 11:32	27°♎34'38		minimum elong	1754 Dec 09 12:29	17°♎39'43	1°40'55
direct	1754 Jan 04 22:57	25°♎09'49		min. Earth dist.	1754 Dec 09 15:55	17°♎27'51	0.67762 AU
	1754 Jan 14 04:15	0°♏		morning rise	1754 Dec 14 18:39	11°♎20'49	
morning max el	1754 Jan 15 23:40	1°♏44'25	24°10'13	direct	1754 Dec 19 14:56	9°♎18'04	
desc. node	1754 Jan 25 00:56	12°♏24'32		morning max el	1754 Dec 29 09:48	15°♎05'30	22°41'50
	1754 Feb 06 10:19	0°♐			1755 Jan 10 12:08	0°♏	
morning set	1754 Feb 20 18:28	23°♐14'59		desc. node	1755 Jan 11 21:58	1°♏57'43	
max. Earth dist.	1754 Feb 24 12:02	29°♐49'45	1.38074 AU		1755 Jan 30 10:31	0°♐	
	1754 Feb 24 14:19	0°♑		morning set	1755 Feb 01 12:20	3°♐23'10	
				max. Earth dist.	1755 Feb 06 07:57	11°♐27'26	1.40223 AU
superior conj	1754 Mar 03 14:11	12°♑58'32	-1°41'32				
minimum elong	1754 Mar 03 18:25	13°♑18'47	1°41'04	superior conj	1755 Feb 14 02:37	25°♐09'36	-1°58'30
evening rise	1754 Mar 12 10:06	0°♒15'20		minimum elong	1755 Feb 14 05:46	25°♐23'54	1°58'20
	1754 Mar 12 06:59	0°♒			1755 Feb 16 17:58	0°♑	
asc. node	1754 Mar 15 13:10	6°♒21'08		evening rise	1755 Feb 23 23:33	13°♑36'46	
evening max el	1754 Mar 28 23:56	27°♒03'31	19°00'45	asc. node	1755 Mar 02 10:12	25°♑33'26	
	1754 Apr 01 22:07	0°♓			1755 Mar 05 00:35	0°♒	
retrograde	1754 Apr 06 13:31	1°♓12'41		evening max el	1755 Mar 12 04:35	9°♒36'18	18°24'38
evening set	1754 Apr 08 18:01	0°♓57'33		retrograde	1755 Mar 19 14:13	13°♒15'43	
	1754 Apr 11 11:42	30°♓♒		evening set	1755 Mar 22 00:29	12°♒53'13	
inferior conj	1754 Apr 16 20:36	26°♒42'53	1°41'32	inferior conj	1755 Mar 29 08:09	8°♒18'37	2°52'44
minimum elong	1754 Apr 17 00:10	26°♒36'37	1°40'23	minimum elong	1755 Mar 29 11:57	8°♒10'48	2°51'53
min. Earth dist.	1754 Apr 19 23:09	24°♒33'26	0.56808 AU	min. Earth dist.	1755 Apr 01 18:41	5°♒30'55	0.58733 AU
desc. node	1754 Apr 23 00:06	22°♒42'16		morning rise	1755 Apr 05 20:42	2°♒48'11	
morning rise	1754 Apr 25 03:17	21°♒42'15		desc. node	1755 Apr 09 21:07	1°♒21'28	
direct	1754 Apr 30 07:07	20°♒39'20		direct	1755 Apr 11 23:40	1°♒09'47	
morning max el	1754 May 14 13:48	28°♒01'59	25°44'19	morning max el	1755 Apr 26 08:39	8°♒52'11	26°59'30
	1754 May 16 12:21	0°♓			1755 May 12 10:00	0°♓	

morning set	1755 May 26 13:09	26°♄19'52		morning set	1756 May 09 19:16	10°♄55'25	
	1755 May 28 06:47	0°♄		asc. node	1756 May 15 06:31	22°♄32'23	
asc. node	1755 May 29 09:29	2°♄23'22		max. Earth dist.	1756 May 15 22:44	24°♄00'42	1.32296 AU
superior conj	1755 Jun 02 14:38	11°♄36'23	0°43'16	superior conj	1756 May 17 01:44	26°♄28'19	0°18'57
minimum elong	1755 Jun 02 12:52	11°♄26'37	0°42'54	minimum elong	1756 May 17 00:53	26°♄23'37	0°18'45
max. Earth dist.	1755 Jun 02 11:14	11°♄17'38	1.32211 AU		1756 May 18 16:21	0°♄	
evening rise	1755 Jun 09 11:53	26°♄32'52		evening rise	1756 May 23 22:44	11°♄24'55	
	1755 Jun 11 03:39	0°♄			1756 Jun 02 10:05	0°♄	
	1755 Jun 28 07:00	0°♄		evening max el	1756 Jun 19 13:19	23°♄41'24	25°11'05
desc. node	1755 Jul 06 20:25	10°♄37'23		desc. node	1756 Jun 22 17:26	26°♄26'21	
evening max el	1755 Jul 08 19:24	12°♄34'59	26°26'14		1756 Jun 28 23:43	0°♄	
retrograde	1755 Jul 22 18:58	19°♄47'21		retrograde	1756 Jul 03 13:27	0°♄48'44	
evening set	1755 Jul 29 09:29	17°♄58'16			1756 Jul 08 03:16	30°♄	
min. Earth dist.	1755 Aug 02 08:32	15°♄22'13	0.59689 AU	evening set	1756 Jul 09 01:41	29°♄38'36	
inferior conj	1755 Aug 05 16:06	12°♄46'22	-4°47'14	min. Earth dist.	1756 Jul 14 01:04	26°♄53'56	0.57676 AU
minimum elong	1755 Aug 05 19:20	12°♄39'59	4°46'54	inferior conj	1756 Jul 17 03:02	24°♄48'07	-4°55'42
morning rise	1755 Aug 13 07:17	8°♄11'21		minimum elong	1756 Jul 17 01:54	24°♄50'05	4°55'40
direct	1755 Aug 15 18:09	7°♄49'50		morning rise	1756 Jul 25 04:43	20°♄35'19	
morning max el	1755 Aug 23 09:43	11°♄31'52	18°18'25	direct	1756 Jul 27 18:09	20°♄15'51	
asc. node	1755 Aug 25 08:43	13°♄37'25		morning max el	1756 Aug 05 12:31	24°♄22'43	19°01'40
	1755 Sep 04 16:41	0°♄			1756 Aug 10 07:16	0°♄	
morning set	1755 Sep 08 08:51	6°♄55'02		asc. node	1756 Aug 11 05:46	1°♄20'53	
				morning set	1756 Aug 22 06:17	21°♄06'44	
superior conj	1755 Sep 17 15:34	24°♄21'14	1°30'45		1756 Aug 26 18:05	0°♄	
minimum elong	1755 Sep 17 19:05	24°♄37'18	1°30'26				
	1755 Sep 20 18:43	0°♄		superior conj	1756 Aug 30 15:00	7°♄32'41	1°42'55
max. Earth dist.	1755 Sep 25 05:06	7°♄44'00	1.40762 AU	minimum elong	1756 Aug 30 16:36	7°♄40'24	1°42'50
evening rise	1755 Sep 29 21:30	15°♄34'55		max. Earth dist.	1756 Sep 06 08:39	20°♄05'29	1.38715 AU
desc. node	1755 Oct 02 19:45	20°♄19'49		evening rise	1756 Sep 10 05:00	26°♄52'46	
	1755 Oct 09 00:11	0°♄			1756 Sep 12 00:45	0°♄	
	1755 Oct 30 20:38	0°♄		desc. node	1756 Sep 18 16:47	10°♄55'38	
evening max el	1755 Nov 03 05:20	3°♄37'45	23°17'09		1756 Oct 01 13:30	0°♄	
retrograde	1755 Nov 13 14:39	9°♄47'01		evening max el	1756 Oct 15 17:51	17°♄14'25	24°36'22
evening set	1755 Nov 18 12:57	7°♄44'54		retrograde	1756 Oct 27 04:55	23°♄55'49	
asc. node	1755 Nov 21 07:57	4°♄48'17		evening set	1756 Nov 01 17:09	21°♄37'10	
inferior conj	1755 Nov 23 22:00	1°♄21'56	0°52'44	min. Earth dist.	1756 Nov 06 08:20	16°♄19'54	0.67475 AU
minimum elong	1755 Nov 23 20:47	1°♄26'05	0°52'14	inferior conj	1756 Nov 07 04:10	15°♄13'47	-0°00'43
min. Earth dist.	1755 Nov 23 12:39	1°♄54'03	0.67785 AU	minimum elong	1756 Nov 07 04:10	15°♄13'44	0°00'43
	1755 Nov 24 22:01	30°♄		transit middle	1756 Nov 07 04:10	15°♄13'44	0°00'43
morning rise	1755 Nov 29 04:34	25°♄13'39		transit begin	1756 Nov 07 01:26	15°♄22'54	
direct	1755 Dec 03 10:21	23°♄33'45		transit end	1756 Nov 07 06:55	15°♄04'35	
morning max el	1755 Dec 12 01:11	28°♄35'20	21°18'21	asc. node	1756 Nov 07 05:00	15°♄11'00	
	1755 Dec 13 09:29	0°♄		morning rise	1756 Nov 12 15:17	9°♄11'16	
desc. node	1755 Dec 29 19:01	21°♄57'02		direct	1756 Nov 16 08:08	7°♄52'30	
	1756 Jan 04 04:16	0°♄		morning max el	1756 Nov 24 00:03	12°♄15'42	20°05'44
morning set	1756 Jan 12 01:36	12°♄11'27			1756 Dec 07 12:12	0°♄	
max. Earth dist.	1756 Jan 19 09:24	23°♄58'01	1.42236 AU	desc. node	1756 Dec 15 16:04	12°♄15'12	
	1756 Jan 23 00:36	0°♄		morning set	1756 Dec 20 22:09	20°♄19'03	
					1756 Dec 27 03:14	0°♄	
superior conj	1756 Jan 26 17:37	6°♄18'14	-2°04'37	max. Earth dist.	1756 Dec 31 18:26	7°♄20'46	1.43844 AU
minimum elong	1756 Jan 26 17:16	6°♄16'45	2°04'37				
evening rise	1756 Feb 06 23:46	26°♄17'14		superior conj	1757 Jan 06 06:50	16°♄16'02	-1°54'55
	1756 Feb 09 00:57	0°♄		minimum elong	1757 Jan 06 01:07	15°♄52'41	1°54'35
asc. node	1756 Feb 17 07:15	14°♄16'32			1757 Jan 14 12:25	0°♄	
evening max el	1756 Feb 23 14:42	22°♄33'46	18°08'26	evening rise	1757 Jan 19 06:26	8°♄08'24	
retrograde	1756 Mar 01 07:54	25°♄59'13			1757 Feb 01 11:13	0°♄	
evening set	1756 Mar 03 23:37	25°♄27'27		asc. node	1757 Feb 03 04:18	2°♄21'31	
inferior conj	1756 Mar 10 15:39	20°♄32'07	3°31'24	evening max el	1757 Feb 06 03:14	5°♄48'04	18°11'33
minimum elong	1756 Mar 10 17:46	20°♄27'05	3°31'10	retrograde	1757 Feb 12 14:19	9°♄13'31	
min. Earth dist.	1756 Mar 13 20:55	17°♄30'11	0.60871 AU	evening set	1757 Feb 15 11:10	8°♄31'16	
morning rise	1756 Mar 17 10:03	14°♄41'49		inferior conj	1757 Feb 21 15:20	3°♄15'55	3°44'12
direct	1756 Mar 24 04:02	12°♄27'38		minimum elong	1757 Feb 21 15:27	3°♄15'37	3°44'13
desc. node	1756 Mar 26 18:11	12°♄46'12		min. Earth dist.	1757 Feb 24 07:44	0°♄23'50	0.62921 AU
morning max el	1756 Apr 07 09:46	20°♄20'42	27°41'52		1757 Feb 24 17:03	30°♄	
	1756 Apr 15 17:02	0°♄		morning rise	1757 Feb 27 18:42	27°♄14'13	
	1756 May 04 07:01	0°♄		direct	1757 Mar 06 17:44	24°♄34'09	

desc. node	1757 Mar 13 15:14	26° \approx 46'28	morning rise	1758 Feb 10 19:24	10° \approx 13'23	
	1757 Mar 17 23:59	0° \mathbb{H}	direct	1758 Feb 17 14:38	7° \approx 22'04	
morning max el	1757 Mar 20 16:08	2° \mathbb{H} 29'43 27°46'58	desc. node	1758 Feb 28 12:17	12° \approx 47'03	
	1757 Apr 10 01:05	0° \mathbb{Y}	morning max el	1758 Mar 03 01:21	15° \approx 11'03 27°16'58	
morning set	1757 Apr 23 19:33	25° \mathbb{Y} 10'21		1758 Mar 15 04:50	0° \mathbb{H}	
	1757 Apr 26 04:16	0° \mathbb{B}		1758 Apr 02 17:59	0° \mathbb{Y}	
max. Earth dist.	1757 Apr 29 05:38	6° \mathbb{B} 25'37 1.32786 AU	morning set	1758 Apr 07 11:09	8° \mathbb{Y} 55'20	
			max. Earth dist.	1758 Apr 12 04:09	18° \mathbb{Y} 21'19 1.33709 AU	
superior conj	1757 May 01 10:26	11° \mathbb{B} 09'04 -0°07'33				
minimum elong	1757 May 01 10:48	11° \mathbb{B} 11'02 0°07'28	superior conj	1758 Apr 15 14:45	25° \mathbb{Y} 31'54 -0°35'14	
behind sun begin	1757 May 01 06:09	10° \mathbb{B} 45'56	minimum elong	1758 Apr 15 16:31	25° \mathbb{Y} 41'13 0°34'52	
behind sun end	1757 May 01 15:27	11° \mathbb{B} 36'10		1758 Apr 17 17:17	0° \mathbb{B}	
asc. node	1757 May 02 03:35	12° \mathbb{B} 41'47	asc. node	1758 Apr 19 00:38	2° \mathbb{B} 47'08	
evening rise	1757 May 08 10:36	26° \mathbb{B} 16'12	evening rise	1758 Apr 22 21:36	11° \mathbb{B} 00'05	
	1757 May 10 05:20	0° \mathbb{H}		1758 May 02 18:38	0° \mathbb{H}	
	1757 May 28 04:34	0° \mathbb{E}	evening max el	1758 May 13 20:06	14° \mathbb{H} 49'26 22°03'02	
evening max el	1757 Jun 01 03:20	4° \mathbb{E} 16'47 23°38'19	retrograde	1758 May 26 13:23	21° \mathbb{H} 05'25	
desc. node	1757 Jun 09 14:27	10° \mathbb{E} 06'01	desc. node	1758 May 27 11:28	21° \mathbb{H} 03'30	
retrograde	1757 Jun 14 19:34	11° \mathbb{E} 07'43	evening set	1758 May 29 07:12	20° \mathbb{H} 48'42	
evening set	1757 Jun 18 20:28	10° \mathbb{E} 31'54	min. Earth dist.	1758 Jun 07 01:27	17° \mathbb{H} 04'19 0.55060 AU	
min. Earth dist.	1757 Jun 25 13:48	7° \mathbb{E} 23'29 0.56023 AU	inferior conj	1758 Jun 07 16:29	16° \mathbb{H} 43'14 -3°05'16	
inferior conj	1757 Jun 27 17:50	6° \mathbb{E} 05'19 -4°24'21	minimum elong	1758 Jun 07 08:52	16° \mathbb{H} 53'54 3°02'59	
minimum elong	1757 Jun 27 11:34	6° \mathbb{E} 14'47 4°23'16	morning rise	1758 Jun 16 12:05	12° \mathbb{H} 50'10	
morning rise	1757 Jul 06 05:18	2° \mathbb{E} 08'50	direct	1758 Jun 19 12:54	12° \mathbb{H} 29'39	
direct	1757 Jul 08 23:02	1° \mathbb{E} 50'01	morning max el	1758 Jul 01 09:52	18° \mathbb{H} 03'00 21°30'46	
morning max el	1757 Jul 19 04:56	6° \mathbb{E} 34'49 20°06'16		1758 Jul 10 20:47	0° \mathbb{E}	
asc. node	1757 Jul 29 02:49	19° \mathbb{E} 49'59	asc. node	1758 Jul 15 23:53	8° \mathbb{E} 53'48	
	1757 Aug 03 14:45	0° \mathbb{O}	morning set	1758 Jul 21 19:11	20° \mathbb{E} 26'02	
morning set	1757 Aug 06 10:30	5° \mathbb{O} 39'11		1758 Jul 26 08:35	0° \mathbb{O}	
superior conj	1757 Aug 14 04:10	21° \mathbb{O} 25'34 1°45'51	superior conj	1758 Jul 29 03:01	5° \mathbb{O} 48'12 1°41'20	
minimum elong	1757 Aug 14 03:59	21° \mathbb{O} 24'40 1°45'51	minimum elong	1758 Jul 29 01:32	5° \mathbb{O} 40'29 1°41'16	
	1757 Aug 18 12:38	0° \mathbb{P}	max. Earth dist.	1758 Aug 02 01:51	13° \mathbb{O} 54'02 1.35068 AU	
max. Earth dist.	1757 Aug 19 13:45	2° \mathbb{P} 00'24 1.36756 AU	evening rise	1758 Aug 06 10:47	22° \mathbb{O} 28'26	
evening rise	1757 Aug 23 10:56	9° \mathbb{P} 14'25		1758 Aug 10 11:59	0° \mathbb{P}	
	1757 Sep 04 17:31	0° \mathbb{A}	desc. node	1758 Aug 23 10:48	21° \mathbb{P} 24'17	
desc. node	1757 Sep 05 13:48	1° \mathbb{A} 19'06		1758 Aug 29 10:54	0° \mathbb{A}	
	1757 Sep 27 08:06	0° \mathbb{M}	evening max el	1758 Sep 10 18:08	14° \mathbb{A} 31'00 26°44'41	
evening max el	1757 Sep 28 05:51	0° \mathbb{M} 54'00 25°48'08	retrograde	1758 Sep 23 18:36	21° \mathbb{A} 45'41	
retrograde	1757 Oct 10 14:24	7° \mathbb{M} 57'12	evening set	1758 Sep 30 10:18	19° \mathbb{A} 03'28	
evening set	1757 Oct 16 16:56	5° \mathbb{M} 24'19	min. Earth dist.	1758 Oct 04 10:40	14° \mathbb{A} 58'23 0.65860 AU	
min. Earth dist.	1757 Oct 21 00:29	0° \mathbb{M} 42'30 0.66839 AU	inferior conj	1758 Oct 06 05:19	12° \mathbb{A} 52'32 -1°55'27	
	1757 Oct 21 13:57	30° \mathbb{R} \mathbb{A}	minimum elong	1758 Oct 06 08:23	12° \mathbb{A} 43'29 1°54'14	
inferior conj	1757 Oct 22 07:15	29° \mathbb{A} 05'00 -0°57'20	asc. node	1758 Oct 11 23:06	7° \mathbb{A} 21'20	
minimum elong	1757 Oct 22 08:44	29° \mathbb{A} 00'18 0°56'42	morning rise	1758 Oct 12 07:02	7° \mathbb{A} 10'14	
asc. node	1757 Oct 25 02:04	25° \mathbb{A} 44'37	direct	1758 Oct 15 04:16	6° \mathbb{A} 23'56	
morning rise	1757 Oct 28 00:49	23° \mathbb{A} 11'00	morning max el	1758 Oct 21 18:41	10° \mathbb{A} 00'19 18°24'59	
direct	1757 Oct 31 06:45	22° \mathbb{A} 10'17		1758 Nov 04 19:45	0° \mathbb{M}	
morning max el	1757 Nov 07 06:24	26° \mathbb{A} 05'04 19°07'22	morning set	1758 Nov 10 09:35	8° \mathbb{M} 59'34	
	1757 Nov 10 16:26	0° \mathbb{M}	desc. node	1758 Nov 19 10:07	23° \mathbb{M} 26'27	
morning set	1757 Nov 30 02:44	28° \mathbb{M} 58'30		1758 Nov 23 13:37	0° \mathbb{X}	
	1757 Nov 30 18:30	0° \mathbb{X}	superior conj	1758 Nov 25 20:29	3° \mathbb{X} 36'01 -0°42'04	
desc. node	1757 Dec 02 13:06	2° \mathbb{X} 46'16	minimum elong	1758 Nov 25 15:03	3° \mathbb{X} 14'39 0°41'22	
max. Earth dist.	1757 Dec 14 09:54	21° \mathbb{X} 21'55 1.44849 AU	max. Earth dist.	1758 Nov 27 04:57	5° \mathbb{X} 43'35 1.45134 AU	
superior conj	1757 Dec 16 19:21	25° \mathbb{X} 08'45 -1°26'15	evening rise	1758 Dec 12 00:53	29° \mathbb{X} 00'37	
minimum elong	1757 Dec 16 10:34	24° \mathbb{X} 33'58 1°25'21		1758 Dec 12 15:58	0° \mathbb{Z}	
	1757 Dec 19 20:44	0° \mathbb{Z}	greatest brilliancy	1758 Dec 22 05:51	15° \mathbb{Z} 01'42 -0.8m	
evening rise	1757 Dec 31 15:22	19° \mathbb{Z} 02'46		1759 Jan 01 16:17	0° \mathbb{A}	
	1758 Jan 07 07:30	0° \mathbb{A}	evening max el	1759 Jan 04 00:33	2° \mathbb{A} 38'57 19°12'17	
evening max el	1758 Jan 20 15:18	19° \mathbb{A} 11'20 18°33'13	asc. node	1759 Jan 07 22:24	5° \mathbb{A} 47'26	
asc. node	1758 Jan 21 01:22	19° \mathbb{A} 36'20	retrograde	1759 Jan 11 00:54	6° \mathbb{A} 39'36	
retrograde	1758 Jan 27 05:09	22° \mathbb{A} 49'07	evening set	1759 Jan 14 09:44	5° \mathbb{A} 33'25	
evening set	1758 Jan 30 07:30	21° \mathbb{A} 55'25	inferior conj	1759 Jan 19 23:36	29° \mathbb{Z} 43'06 3°17'35	
inferior conj	1758 Feb 05 03:08	16° \mathbb{A} 21'28 3°37'55	minimum elong	1759 Jan 19 21:15	29° \mathbb{Z} 50'37 3°17'07	
minimum elong	1758 Feb 05 01:41	16° \mathbb{A} 25'45 3°37'47		1759 Jan 19 18:19	30° \mathbb{R} \mathbb{Z}	
min. Earth dist.	1758 Feb 07 04:00	13° \mathbb{A} 56'53 0.64677 AU	min. Earth dist.	1759 Jan 21 09:17	27° \mathbb{Z} 55'31 0.66043 AU	

morning rise	1759 Jan 25 08:31	23° Z 31'22		asc. node	1759 Dec 25 19:25	20° Z 39'55	
direct	1759 Jan 31 17:47	20° Z 42'43		evening set	1759 Dec 29 15:34	19° Z 20'02	
morning max el	1759 Feb 13 11:05	28° Z 13'50	26°18'18	inferior conj	1760 Jan 04 01:55	13° Z 16'14	2°46'37
desc. node	1759 Feb 15 09:20	0° \approx 15'01		minimum elong	1760 Jan 03 23:16	13° Z 25'08	2°45'53
	1759 Feb 15 03:47	0° \approx		min. Earth dist.	1760 Jan 04 21:54	12° Z 09'01	0.67003 AU
	1759 Mar 08 22:49	0° H		morning rise	1760 Jan 09 06:45	7° Z 02'55	
morning set	1759 Mar 21 14:20	21° H 59'21		direct	1760 Jan 15 02:33	4° Z 27'23	
max. Earth dist.	1759 Mar 25 15:34	29° H 44'53	1.35085 AU	morning max el	1760 Jan 26 19:53	11° Z 26'59	25°00'06
	1759 Mar 25 18:40	0° Y		desc. node	1760 Feb 02 06:22	18° Z 45'01	
					1760 Feb 10 16:19	0° \approx	
superior conj	1759 Mar 30 12:21	9° Y 29'52	-1°02'51		1760 Feb 29 15:45	0° H	
minimum elong	1759 Mar 30 15:29	9° Y 45'55	1°02'17	morning set	1760 Mar 03 00:06	4° H 08'18	
asc. node	1759 Apr 05 21:41	22° Y 44'14		max. Earth dist.	1760 Mar 06 15:58	10° H 47'39	1.36882 AU
evening rise	1759 Apr 07 05:47	25° Y 30'15					
	1759 Apr 09 10:45	0° B		superior conj	1760 Mar 13 00:15	22° H 54'53	-1°28'34
evening max el	1759 Apr 25 22:07	25° B 47'34	20°38'06	minimum elong	1760 Mar 13 04:21	23° H 15'02	1°28'01
	1759 May 01 18:37	0° II			1760 Mar 16 13:48	0° Y	
retrograde	1759 May 07 02:27	1° II 13'20		evening rise	1760 Mar 21 08:56	9° Y 39'57	
evening set	1759 May 09 04:51	1° II 02'36		asc. node	1760 Mar 22 18:43	12° Y 28'39	
	1759 May 12 18:27	30° R 8			1760 Apr 01 12:54	0° B	
desc. node	1759 May 14 08:31	29° B 17'38		evening max el	1760 Apr 07 11:58	7° B 25'24	19°30'42
inferior conj	1759 May 18 10:27	27° B 04'49	-1°11'12	retrograde	1760 Apr 16 23:07	11° B 59'34	
minimum elong	1759 May 18 07:05	27° B 09'40	1°09'58	evening set	1760 Apr 19 00:35	11° B 47'31	
min. Earth dist.	1759 May 19 13:57	26° B 25'17	0.55017 AU	inferior conj	1760 Apr 27 14:26	7° B 42'17	0°45'05
morning rise	1759 May 27 08:34	22° B 55'33		minimum elong	1760 Apr 27 16:19	7° B 39'15	0°44'24
direct	1759 May 30 22:53	22° B 27'42		min. Earth dist.	1760 Apr 30 04:31	6° B 02'56	0.55920 AU
morning max el	1759 Jun 13 05:15	28° B 52'06	23°09'22	desc. node	1760 Apr 30 05:33	6° B 01'20	
	1759 Jun 14 09:08	0° II		morning rise	1760 May 06 05:18	3° B 01'03	
asc. node	1759 Jul 02 20:55	28° II 22'56		direct	1760 May 10 18:02	2° B 14'40	
	1759 Jul 03 16:13	0° E		morning max el	1760 May 24 20:02	9° B 21'10	24°50'38
morning set	1759 Jul 06 06:17	5° E 20'31			1760 Jun 09 05:12	0° II	
				asc. node	1760 Jun 18 17:57	18° II 10'33	
superior conj	1759 Jul 13 08:20	20° E 30'10	1°30'50	morning set	1760 Jun 19 18:09	20° II 17'26	
minimum elong	1759 Jul 13 06:07	20° E 18'18	1°30'36		1760 Jun 24 06:22	0° E	
max. Earth dist.	1759 Jul 15 23:03	26° E 02'50	1.33755 AU				
	1759 Jul 17 20:36	0° O		superior conj	1760 Jun 26 17:43	5° E 23'45	1°15'27
evening rise	1759 Jul 20 23:59	6° O 21'27		minimum elong	1760 Jun 26 15:18	5° E 10'35	1°15'05
	1759 Aug 03 02:21	0° P		max. Earth dist.	1760 Jun 28 04:21	8° E 31'50	1.32849 AU
desc. node	1759 Aug 10 07:49	11° P 02'29		evening rise	1760 Jul 03 22:46	20° E 42'49	
evening max el	1759 Aug 24 05:54	27° P 54'10	27°18'47		1760 Jul 08 15:27	0° O	
	1759 Aug 26 13:56	0° A		desc. node	1760 Jul 27 04:49	0° P 02'07	
retrograde	1759 Sep 06 17:07	5° A 12'44			1760 Jul 27 04:11	0° P	
evening set	1759 Sep 13 18:37	2° A 29'23		evening max el	1760 Aug 05 15:27	10° P 51'29	27°24'09
	1759 Sep 16 13:20	30° R 8		retrograde	1760 Aug 19 09:34	18° P 08'59	
min. Earth dist.	1759 Sep 17 12:37	29° P 00'07	0.64520 AU	evening set	1760 Aug 26 14:35	15° P 36'25	
inferior conj	1759 Sep 19 19:59	26° P 30'52	-2°52'54	min. Earth dist.	1760 Aug 30 04:47	12° P 37'28	0.62833 AU
minimum elong	1759 Sep 20 00:29	26° P 18'45	2°51'21	inferior conj	1760 Sep 02 00:33	9° P 53'46	-3°46'15
morning rise	1759 Sep 26 07:19	21° P 03'28		minimum elong	1760 Sep 02 05:49	9° P 40'59	3°44'49
direct	1759 Sep 28 22:11	20° P 28'00		morning rise	1760 Sep 08 22:27	4° P 44'27	
asc. node	1759 Sep 28 20:08	20° P 28'03		direct	1760 Sep 11 09:35	4° P 16'29	
morning max el	1759 Oct 05 10:17	23° P 55'06	17°59'31	asc. node	1760 Sep 14 17:10	5° P 08'24	
	1759 Oct 10 07:50	0° A		morning max el	1760 Sep 18 02:16	7° P 42'39	17°51'47
morning set	1759 Oct 22 20:59	20° A 24'13			1760 Oct 02 16:02	0° A	
	1759 Oct 28 14:21	0° M		morning set	1760 Oct 04 07:47	2° A 56'05	
superior conj	1759 Nov 05 07:52	12° M 38'18	0°06'32	superior conj	1760 Oct 15 20:06	22° A 55'01	0°48'30
minimum elong	1759 Nov 05 08:38	12° M 41'25	0°06'26	minimum elong	1760 Oct 16 00:21	23° A 12'53	0°47'56
behind sun begin	1759 Nov 04 23:01	12° M 02'39			1760 Oct 20 02:30	0° M	
behind sun end	1759 Nov 05 18:16	13° M 20'07		max. Earth dist.	1760 Oct 22 15:05	4° M 06'24	1.43542 AU
desc. node	1759 Nov 06 07:07	14° M 11'42		desc. node	1760 Oct 23 04:08	4° M 59'02	
max. Earth dist.	1759 Nov 09 23:40	20° M 04'25	1.44675 AU	evening rise	1760 Oct 30 23:24	17° M 18'17	
	1759 Nov 16 07:28	0° X			1760 Nov 08 07:21	0° X	
evening rise	1759 Nov 21 15:09	8° X 14'26		evening max el	1760 Nov 30 04:08	29° X 37'51	21°14'45
	1759 Dec 05 23:33	0° Z			1760 Nov 30 12:53	0° Z	
greatest brilliancy	1759 Dec 05 21:33	29° X 52'39	-0.6m	retrograde	1760 Dec 08 20:13	4° Z 46'50	
evening max el	1759 Dec 18 05:07	16° Z 07'56	20°07'05	asc. node	1760 Dec 11 16:26	4° Z 01'54	
retrograde	1759 Dec 25 22:41	20° Z 40'01		evening set	1760 Dec 12 23:03	3° Z 11'31	

	1760 Dec 16 01:02	30° RX		asc. node	1761 Nov 28 13:27	15° X 53'37	
inferior conj	1760 Dec 18 07:43	26° X 57'31	2°07'22	inferior conj	1761 Dec 02 15:04	10° X 45'04	1°21'34
minimum elong	1760 Dec 18 05:17	27° X 05'54	2°06'32	minimum elong	1761 Dec 02 13:18	10° X 51'10	1°20'53
min. Earth dist.	1760 Dec 18 15:35	26° X 30'22	0.67586 AU	min. Earth dist.	1761 Dec 02 11:52	10° X 56'06	0.67813 AU
morning rise	1760 Dec 23 11:20	20° X 44'32		morning rise	1761 Dec 07 19:55	4° X 34'27	
direct	1760 Dec 28 16:15	18° X 28'42		direct	1761 Dec 12 09:59	2° X 41'14	
morning max el	1761 Jan 08 04:30	24° X 44'24	23°32'28	morning max el	1761 Dec 21 16:19	8° X 08'29	22°05'15
	1761 Jan 12 21:58	0° Z		desc. node	1762 Jan 06 00:26	27° X 44'35	
desc. node	1761 Jan 19 03:23	7° Z 58'52			1762 Jan 07 13:58	0° Z	
	1761 Feb 03 04:02	0° \approx		morning set	1762 Jan 23 15:23	24° Z 36'28	
morning set	1761 Feb 12 10:07	15° \approx 04'15			1762 Jan 26 22:46	0° \approx	
max. Earth dist.	1761 Feb 16 10:35	21° \approx 59'57	1.38976 AU	max. Earth dist.	1762 Jan 29 08:07	3° \approx 58'21	1.41116 AU
	1761 Feb 20 21:52	0° X					
				superior conj	1762 Feb 06 02:35	17° \approx 22'29	-2°02'43
superior conj	1761 Feb 23 22:35	5° X 36'03	-1°49'46	minimum elong	1762 Feb 06 04:34	17° \approx 31'18	2°02'40
minimum elong	1761 Feb 24 02:36	5° X 54'53	1°49'26		1762 Feb 13 01:33	0° X	
evening rise	1761 Mar 05 04:16	23° X 20'46		evening rise	1762 Feb 16 12:34	6° X 25'37	
	1761 Mar 08 15:24	0° Y		asc. node	1762 Feb 24 12:48	20° X 55'03	
asc. node	1761 Mar 09 15:45	1° Y 54'17			1762 Mar 02 15:06	0° Y	
evening max el	1761 Mar 21 12:07	19° Y 40'22	18°43'03	evening max el	1762 Mar 04 19:33	2° Y 24'57	18°15'22
retrograde	1761 Mar 29 12:26	23° Y 34'42		retrograde	1762 Mar 11 20:35	5° Y 56'07	
evening set	1761 Mar 31 19:18	23° Y 16'49		evening set	1762 Mar 14 09:24	5° Y 29'43	
inferior conj	1761 Apr 08 13:37	18° Y 54'25	2°15'54	inferior conj	1762 Mar 21 09:57	0° Y 46'20	3°12'43
minimum elong	1761 Apr 08 17:39	18° Y 46'52	2°14'47	minimum elong	1762 Mar 21 13:10	0° Y 39'18	3°12'10
min. Earth dist.	1761 Apr 11 21:45	16° Y 25'47	0.57574 AU		1762 Mar 22 07:03	30° RX	
morning rise	1761 Apr 16 12:53	13° Y 39'54		min. Earth dist.	1762 Mar 24 19:36	27° X 49'34	0.59643 AU
desc. node	1761 Apr 17 02:35	13° Y 25'07		morning rise	1762 Mar 28 14:36	25° X 06'35	
direct	1761 Apr 22 03:22	12° Y 22'19		desc. node	1762 Apr 03 23:38	23° X 12'14	
morning max el	1761 May 06 11:53	19° Y 55'26	26°19'35	direct	1762 Apr 04 01:24	23° X 12'13	
	1761 May 15 02:15	0° B			1762 Apr 17 08:12	0° Y	
	1761 Jun 01 17:06	0° II		morning max el	1762 Apr 18 09:03	0° Y 59'28	27°21'55
morning set	1761 Jun 04 05:09	5° II 10'34			1762 May 09 05:05	0° B	
asc. node	1761 Jun 05 15:00	8° II 10'12		morning set	1762 May 19 13:35	19° B 54'12	
				asc. node	1762 May 23 12:04	28° B 17'05	
superior conj	1761 Jun 11 05:09	20° II 21'25	0°56'01		1762 May 24 07:00	0° II	
minimum elong	1761 Jun 11 03:01	20° II 09'41	0°55'37	max. Earth dist.	1762 May 26 03:22	4° II 02'55	1.32204 AU
max. Earth dist.	1761 Jun 11 14:59	21° II 15'30	1.32337 AU				
	1761 Jun 15 15:17	0° B		superior conj	1762 May 26 16:51	5° II 17'01	0°33'17
evening rise	1761 Jun 18 04:06	5° B 22'26		minimum elong	1762 May 26 15:25	5° II 09'10	0°32'58
	1761 Jul 01 06:54	0° Ω		evening rise	1762 Jun 02 13:33	20° II 12'10	
desc. node	1761 Jul 14 01:51	18° Ω 06'58			1762 Jun 07 08:41	0° B	
evening max el	1761 Jul 18 20:26	23° Ω 10'58	26°56'51		1762 Jun 26 08:03	0° Ω	
	1761 Jul 29 15:31	0° M		desc. node	1762 Jun 30 22:53	4° Ω 54'18	
retrograde	1761 Aug 01 18:45	0° M 25'00		evening max el	1762 Jun 30 18:36	4° Ω 44'09	25°57'19
	1761 Aug 04 20:24	30° $\text{R}\Omega$		retrograde	1762 Jul 14 18:47	11° Ω 54'07	
evening set	1761 Aug 08 17:52	28° Ω 16'52		evening set	1762 Jul 20 23:43	10° Ω 21'34	
min. Earth dist.	1761 Aug 12 10:38	25° Ω 36'52	0.60876 AU	min. Earth dist.	1762 Jul 25 07:07	7° Ω 43'58	0.58815 AU
inferior conj	1761 Aug 15 15:42	22° Ω 53'04	-4°29'54	inferior conj	1762 Jul 28 13:52	5° Ω 18'48	-4°54'49
minimum elong	1761 Aug 15 20:20	22° Ω 43'12	4°29'07	minimum elong	1762 Jul 28 15:31	5° Ω 15'43	4°54'44
morning rise	1761 Aug 23 00:35	18° Ω 04'39		morning rise	1762 Aug 05 09:32	0° Ω 53'09	
direct	1761 Aug 25 10:43	17° Ω 41'23		direct	1762 Aug 07 21:22	0° Ω 32'33	
morning max el	1761 Sep 01 15:34	21° Ω 15'09	18°02'56	morning max el	1762 Aug 15 23:01	4° Ω 23'39	18°34'10
asc. node	1761 Sep 01 14:12	21° Ω 11'51		asc. node	1762 Aug 19 11:16	8° Ω 23'12	
	1761 Sep 08 07:16	0° M		morning set	1762 Sep 01 04:01	0° M 14'20	
morning set	1761 Sep 17 11:49	16° M 17'36			1762 Sep 01 01:03	0° M	
	1761 Sep 24 22:39	0° $\underline{\Omega}$					
				superior conj	1762 Sep 10 00:21	17° M 11'34	1°37'10
superior conj	1761 Sep 27 11:07	4° $\underline{\Omega}$ 30'30	1°18'48	minimum elong	1762 Sep 10 03:05	17° M 24'20	1°36'58
minimum elong	1761 Sep 27 15:28	4° $\underline{\Omega}$ 49'44	1°18'20		1762 Sep 17 02:10	0° $\underline{\Omega}$	
max. Earth dist.	1761 Oct 05 01:47	17° $\underline{\Omega}$ 36'13	1.41879 AU	max. Earth dist.	1762 Sep 17 07:42	0° $\underline{\Omega}$ 24'12	1.39901 AU
desc. node	1761 Oct 10 01:10	25° $\underline{\Omega}$ 45'12		evening rise	1762 Sep 21 12:22	7° $\underline{\Omega}$ 35'03	
evening rise	1761 Oct 10 18:52	26° $\underline{\Omega}$ 56'09		desc. node	1762 Sep 26 22:11	16° $\underline{\Omega}$ 26'04	
	1761 Oct 12 17:08	0° M			1762 Oct 05 18:19	0° M	
	1761 Nov 02 01:51	0° X		evening max el	1762 Oct 26 11:50	26° M 45'13	23°51'19
evening max el	1761 Nov 12 21:56	13° X 10'13	22°31'17		1762 Oct 30 02:56	0° X	
retrograde	1761 Nov 22 15:50	18° X 57'40		retrograde	1762 Nov 06 08:12	3° X 08'27	
evening set	1761 Nov 27 06:32	17° X 05'39		evening set	1762 Nov 11 12:24	0° X 59'09	

	1762 Nov 12 13:47	30° \mathbb{M}	evening set	1763 Oct 26 14:57	14° \mathbb{M} 49'53	
asc. node	1762 Nov 15 10:31	26° \mathbb{M} 35'53	min. Earth dist.	1763 Oct 31 02:44	9° \mathbb{M} 47'47	0.67254 AU
inferior conj	1762 Nov 16 22:09	24° \mathbb{M} 35'46 0°30'32	inferior conj	1763 Nov 01 03:13	8° \mathbb{M} 27'44	-0°24'26
minimum elong	1762 Nov 16 21:25	24° \mathbb{M} 38'14 0°30'14	minimum elong	1763 Nov 01 03:50	8° \mathbb{M} 25'43	0°24'10
min. Earth dist.	1762 Nov 16 08:22	25° \mathbb{M} 22'35 0.67699 AU	asc. node	1763 Nov 02 07:34	6° \mathbb{M} 56'13	
morning rise	1762 Nov 22 06:25	18° \mathbb{M} 29'48	morning rise	1763 Nov 06 16:54	2° \mathbb{M} 28'47	
direct	1762 Nov 26 06:35	16° \mathbb{M} 59'04	direct	1763 Nov 10 04:50	1° \mathbb{M} 18'14	
morning max el	1762 Dec 04 10:41	21° \mathbb{M} 42'35 20°45'52	morning max el	1763 Nov 17 12:57	5° \mathbb{M} 27'47	19°39'00
	1762 Dec 11 09:35	0° \mathbb{A}	greatest brilliancy	1763 Nov 30 20:06	23° \mathbb{M} 09'26	-0.7m
desc. node	1762 Dec 23 21:28	17° \mathbb{A} 52'46		1763 Dec 05 08:51	0° \mathbb{A}	
	1762 Dec 31 20:43	0° \mathbb{B}	desc. node	1763 Dec 10 18:29	8° \mathbb{A} 17'03	
morning set	1763 Jan 02 19:01	2° \mathbb{B} 59'30	morning set	1763 Dec 12 15:50	11° \mathbb{A} 12'04	
max. Earth dist.	1763 Jan 11 13:18	16° \mathbb{B} 54'14 1.42992 AU		1763 Dec 24 16:25	0° \mathbb{B}	
			max. Earth dist.	1763 Dec 25 01:37	0° \mathbb{B} 36'28	1.44357 AU
superior conj	1763 Jan 18 06:57	28° \mathbb{B} 01'30 -2°02'42				
minimum elong	1763 Jan 18 04:24	27° \mathbb{B} 50'48 2°02'38	superior conj	1763 Dec 29 08:48	7° \mathbb{B} 28'33	-1°45'03
	1763 Jan 19 11:02	0° \mathbb{C}	minimum elong	1763 Dec 29 01:08	6° \mathbb{B} 57'46	1°44'27
evening rise	1763 Jan 30 05:49	18° \mathbb{C} 46'01	evening rise	1764 Jan 12 03:39	0° \mathbb{C} 13'50	
	1763 Feb 05 14:50	0° \mathbb{H}		1764 Jan 12 00:23	0° \mathbb{C}	
asc. node	1763 Feb 11 09:50	9° \mathbb{H} 23'00	asc. node	1764 Jan 29 06:53	27° \mathbb{C} 08'06	
evening max el	1763 Feb 16 07:00	15° \mathbb{H} 30'12 18°07'23	evening max el	1764 Jan 30 19:33	28° \mathbb{C} 48'33	18°18'30
retrograde	1763 Feb 22 20:21	18° \mathbb{H} 54'01		1764 Feb 01 02:16	0° \mathbb{H}	
evening set	1763 Feb 25 14:19	18° \mathbb{H} 17'48	retrograde	1764 Feb 06 06:56	2° \mathbb{H} 18'15	
inferior conj	1763 Mar 04 00:48	13° \mathbb{H} 13'27 3°39'34	evening set	1764 Feb 09 05:58	1° \mathbb{H} 31'19	
minimum elong	1763 Mar 04 02:03	13° \mathbb{H} 10'19 3°39'29		1764 Feb 11 10:55	30° \mathbb{R} \mathbb{C}	
min. Earth dist.	1763 Mar 07 01:02	10° \mathbb{H} 13'25 0.61771 AU	inferior conj	1764 Feb 15 06:06	26° \mathbb{C} 07'37	3°43'34
morning rise	1763 Mar 10 12:21	7° \mathbb{H} 17'36	minimum elong	1764 Feb 15 05:29	26° \mathbb{C} 09'22	3°43'32
direct	1763 Mar 17 09:37	4° \mathbb{H} 51'09	min. Earth dist.	1764 Feb 17 15:56	23° \mathbb{C} 25'33	0.63707 AU
desc. node	1763 Mar 21 20:40	5° \mathbb{H} 46'28	morning rise	1764 Feb 21 04:13	20° \mathbb{C} 02'26	
morning max el	1763 Mar 31 12:38	12° \mathbb{H} 45'28 27°48'44	direct	1764 Feb 28 02:21	17° \mathbb{C} 15'56	
	1763 Apr 14 06:00	0° \mathbb{Y}	desc. node	1764 Mar 07 17:43	20° \mathbb{C} 42'16	
	1763 May 01 13:28	0° \mathbb{B}	morning max el	1764 Mar 12 20:48	25° \mathbb{C} 10'28	27°38'18
morning set	1763 May 03 17:32	4° \mathbb{B} 22'06		1764 Mar 17 06:57	0° \mathbb{H}	
max. Earth dist.	1763 May 09 13:36	16° \mathbb{B} 40'59 1.32453 AU		1764 Apr 06 16:44	0° \mathbb{Y}	
asc. node	1763 May 10 09:08	18° \mathbb{B} 26'57	morning set	1764 Apr 16 14:30	18° \mathbb{Y} 25'38	
			max. Earth dist.	1764 Apr 21 17:30	28° \mathbb{Y} 55'14	1.33119 AU
superior conj	1763 May 11 03:09	20° \mathbb{B} 04'59 0°07'56		1764 Apr 22 05:48	0° \mathbb{B}	
minimum elong	1763 May 11 02:47	20° \mathbb{B} 02'57 0°07'51				
behind sun begin	1763 May 10 22:18	19° \mathbb{B} 38'32	superior conj	1764 Apr 24 10:11	4° \mathbb{B} 38'40	-0°19'13
behind sun end	1763 May 11 07:15	20° \mathbb{B} 27'23	minimum elong	1764 Apr 24 11:08	4° \mathbb{B} 43'44	0°19'01
	1763 May 15 16:15	0° \mathbb{I}	asc. node	1764 Apr 26 06:10	8° \mathbb{B} 35'03	
evening rise	1763 May 18 01:05	5° \mathbb{I} 05'03	evening rise	1764 May 01 12:47	19° \mathbb{B} 53'48	
	1763 May 31 07:11	0° \mathbb{E}		1764 May 06 11:41	0° \mathbb{I}	
evening max el	1763 Jun 12 10:13	15° \mathbb{E} 34'52 24°32'55	evening max el	1764 May 24 00:12	26° \mathbb{I} 04'17	22°57'13
desc. node	1763 Jun 17 19:55	19° \mathbb{E} 53'33		1764 May 28 21:21	0° \mathbb{E}	
retrograde	1763 Jun 26 08:01	22° \mathbb{E} 36'59	desc. node	1764 Jun 03 16:57	2° \mathbb{E} 27'30	
evening set	1763 Jul 01 06:04	21° \mathbb{E} 42'35	retrograde	1764 Jun 06 08:58	2° \mathbb{E} 43'44	
min. Earth dist.	1763 Jul 06 21:16	18° \mathbb{E} 49'41 0.56909 AU	evening set	1764 Jun 09 19:10	2° \mathbb{E} 17'58	
inferior conj	1763 Jul 09 16:13	17° \mathbb{E} 02'22 -4°48'04		1764 Jun 15 10:56	30° \mathbb{R} \mathbb{I}	
minimum elong	1763 Jul 09 12:45	17° \mathbb{E} 07'57 4°47'45	min. Earth dist.	1764 Jun 17 09:09	28° \mathbb{I} 55'48	0.55504 AU
morning rise	1763 Jul 17 22:10	12° \mathbb{E} 57'53	inferior conj	1764 Jun 18 23:08	28° \mathbb{I} 00'52	-3°56'32
direct	1763 Jul 20 13:27	12° \mathbb{E} 38'46	minimum elong	1764 Jun 18 15:35	28° \mathbb{I} 11'50	3°54'47
morning max el	1763 Jul 29 21:42	16° \mathbb{E} 59'38 19°26'36	morning rise	1764 Jun 27 14:28	24° \mathbb{I} 08'15	
asc. node	1763 Aug 06 08:21	26° \mathbb{E} 28'06	direct	1764 Jun 30 10:29	23° \mathbb{I} 49'18	
	1763 Aug 08 11:33	0° \mathbb{O}	morning max el	1764 Jul 11 09:19	28° \mathbb{I} 53'42	20°40'06
morning set	1763 Aug 16 04:43	14° \mathbb{O} 36'43		1764 Jul 12 12:36	0° \mathbb{E}	
	1763 Aug 23 21:27	0° \mathbb{P}	asc. node	1764 Jul 23 05:24	15° \mathbb{E} 13'04	
			morning set	1764 Jul 30 11:05	29° \mathbb{E} 15'58	
superior conj	1763 Aug 24 06:16	0° \mathbb{P} 43'18 1°45'10		1764 Jul 30 19:39	0° \mathbb{O}	
minimum elong	1763 Aug 24 07:04	0° \mathbb{P} 47'15 1°45'09				
max. Earth dist.	1763 Aug 30 11:34	12° \mathbb{P} 33'51 1.37859 AU	superior conj	1764 Aug 07 00:01	14° \mathbb{O} 50'28	1°44'45
evening rise	1763 Sep 03 05:55	19° \mathbb{P} 21'39	minimum elong	1764 Aug 06 23:13	14° \mathbb{O} 46'23	1°44'44
	1763 Sep 09 11:26	0° \mathbb{U}	max. Earth dist.	1764 Aug 11 18:46	24° \mathbb{O} 23'54	1.35991 AU
desc. node	1763 Sep 13 19:13	6° \mathbb{U} 57'47		1764 Aug 14 16:52	0° \mathbb{P}	
	1763 Sep 29 21:54	0° \mathbb{M}	evening rise	1764 Aug 15 20:01	2° \mathbb{P} 07'05	
evening max el	1763 Oct 08 23:51	10° \mathbb{M} 23'30 25°08'07	desc. node	1764 Aug 30 16:15	27° \mathbb{P} 14'30	
retrograde	1763 Oct 20 20:27	17° \mathbb{M} 15'18		1764 Sep 01 11:58	0° \mathbb{U}	

evening max el	1764 Sep 20 11:43	24° Ω 02'21	26°14'23	evening max el	1765 Sep 02 23:58	7° Ω 34'59	27°02'25
	1764 Sep 28 10:11	0° \mathbb{M}		retrograde	1765 Sep 16 05:56	14° Ω 52'35	
retrograde	1764 Oct 03 03:56	1° \mathbb{M} 12'26		evening set	1765 Sep 23 02:11	12° Ω 08'52	
	1764 Oct 07 12:00	30° \mathbb{R} Ω		min. Earth dist.	1765 Sep 26 23:43	8° Ω 19'05	0.65327 AU
evening set	1764 Oct 09 12:19	28° Ω 34'32		inferior conj	1765 Sep 28 23:39	6° Ω 02'30	-2°20'06
min. Earth dist.	1764 Oct 13 16:38	24° Ω 08'21	0.66466 AU	minimum elong	1765 Sep 29 03:22	5° Ω 51'54	2°18'42
inferior conj	1764 Oct 15 04:25	22° Ω 18'01	-1°21'55	morning rise	1765 Oct 05 05:17	0° Ω 25'54	
minimum elong	1764 Oct 15 06:35	22° Ω 11'22	1°21'01	asc. node	1765 Oct 06 01:38	0° Ω 04'34	
asc. node	1764 Oct 19 04:36	17° Ω 51'35			1765 Oct 06 07:15	30° \mathbb{R} \mathbb{M}	
morning rise	1764 Oct 21 01:17	16° Ω 28'43		direct	1765 Oct 07 23:26	29° \mathbb{M} 44'43	
direct	1764 Oct 24 03:07	15° Ω 34'47			1765 Oct 09 15:53	0° Ω	
morning max el	1764 Oct 30 22:10	19° Ω 20'51	18°47'16	morning max el	1765 Oct 14 12:09	3° Ω 16'28	18°11'58
	1764 Nov 08 03:45	0° \mathbb{M}			1765 Nov 01 10:46	0° \mathbb{M}	
morning set	1764 Nov 21 06:20	20° \mathbb{M} 23'18		morning set	1765 Nov 02 01:45	1° \mathbb{M} 01'33	
desc. node	1764 Nov 26 15:31	28° \mathbb{M} 52'41		desc. node	1765 Nov 13 12:32	19° \mathbb{M} 35'30	
	1764 Nov 27 08:37	0° \mathbb{X}					
max. Earth dist.	1764 Dec 06 18:32	14° \mathbb{X} 47'13	1.45057 AU	superior conj	1765 Nov 16 17:07	24° \mathbb{M} 39'53	-0°21'16
				minimum elong	1765 Nov 16 14:23	24° \mathbb{M} 29'04	0°20'52
superior conj	1764 Dec 07 14:08	16° \mathbb{X} 04'13	-1°08'51	max. Earth dist.	1765 Nov 19 13:28	29° \mathbb{M} 09'36	1.45027 AU
minimum elong	1764 Dec 07 06:00	15° \mathbb{X} 32'15	1°07'55		1765 Nov 20 02:16	0° \mathbb{X}	
	1764 Dec 16 09:42	0° \mathbb{Z}		evening rise	1765 Dec 03 02:51	20° \mathbb{X} 20'09	
evening rise	1764 Dec 23 02:36	10° \mathbb{Z} 43'53			1765 Dec 09 08:15	0° \mathbb{Z}	
	1765 Jan 04 04:09	0° \approx		greatest brilliancy	1765 Dec 15 09:47	9° \mathbb{Z} 18'04	-0.7m
evening max el	1765 Jan 13 06:39	12° \approx 14'26	18°47'50	evening max el	1765 Dec 27 14:09	25° \mathbb{Z} 43'23	19°33'53
asc. node	1765 Jan 15 03:54	13° \approx 57'59		asc. node	1766 Jan 02 00:56	29° \mathbb{Z} 37'40	
retrograde	1765 Jan 20 00:17	16° \approx 01'04		retrograde	1766 Jan 03 21:03	29° \mathbb{Z} 56'16	
evening set	1765 Jan 23 05:07	15° \approx 02'24		evening set	1766 Jan 07 09:07	28° \mathbb{Z} 44'28	
inferior conj	1765 Jan 28 22:00	9° \approx 21'20	3°30'46	inferior conj	1766 Jan 12 21:16	22° \mathbb{Z} 48'22	3°05'32
minimum elong	1765 Jan 28 20:06	9° \approx 27'12	3°30'30	minimum elong	1766 Jan 12 18:43	22° \mathbb{Z} 56'42	3°04'58
min. Earth dist.	1765 Jan 30 16:22	7° \approx 11'23	0.65304 AU	min. Earth dist.	1766 Jan 14 01:01	21° \mathbb{Z} 17'35	0.66505 AU
morning rise	1765 Feb 03 10:41	3° \approx 11'12		morning rise	1766 Jan 18 04:05	16° \mathbb{Z} 35'50	
direct	1765 Feb 10 02:15	0° \approx 19'11		direct	1766 Jan 24 08:03	13° \mathbb{Z} 51'24	
desc. node	1765 Feb 22 14:43	7° \approx 23'56		morning max el	1766 Feb 05 15:41	21° \mathbb{Z} 10'37	25°46'42
morning max el	1765 Feb 23 06:33	8° \approx 03'08	26°54'58	desc. node	1766 Feb 09 11:44	25° \mathbb{Z} 20'47	
	1765 Mar 12 08:42	0° \mathbb{X}			1766 Feb 13 07:35	0° \approx	
	1765 Mar 30 01:08	0° \mathbb{Y}			1766 Mar 05 13:28	0° \mathbb{X}	
morning set	1765 Mar 31 01:20	1° \mathbb{Y} 55'18		morning set	1766 Mar 13 21:45	14° \mathbb{X} 37'34	
max. Earth dist.	1765 Apr 04 11:18	10° \mathbb{Y} 36'21	1.34233 AU	max. Earth dist.	1766 Mar 17 17:20	21° \mathbb{X} 46'41	1.35805 AU
					1766 Mar 21 22:23	0° \mathbb{Y}	
superior conj	1765 Apr 08 11:57	18° \mathbb{Y} 52'09	-0°47'04				
minimum elong	1765 Apr 08 14:19	19° \mathbb{Y} 04'29	0°46'35	superior conj	1766 Mar 23 05:49	2° \mathbb{Y} 37'17	-1°14'08
asc. node	1765 Apr 13 03:13	28° \mathbb{Y} 37'40		minimum elong	1766 Mar 23 09:26	2° \mathbb{Y} 55'32	1°13'33
	1765 Apr 13 18:49	0° \mathbb{Z}		evening rise	1766 Mar 31 05:06	18° \mathbb{Y} 54'42	
evening rise	1765 Apr 15 22:49	4° \mathbb{Z} 32'42		asc. node	1766 Mar 31 00:15	18° \mathbb{Y} 29'56	
	1765 Apr 30 03:01	0° \mathbb{I}			1766 Apr 05 20:09	0° \mathbb{Z}	
evening max el	1765 May 05 20:20	6° \mathbb{I} 45'24	21°25'09	evening max el	1766 Apr 18 03:28	18° \mathbb{Z} 00'06	20°07'06
retrograde	1765 May 17 23:33	12° \mathbb{I} 41'12		retrograde	1766 Apr 28 13:46	23° \mathbb{Z} 02'27	
evening set	1765 May 20 08:21	12° \mathbb{I} 28'25		evening set	1766 Apr 30 14:38	22° \mathbb{Z} 51'46	
desc. node	1765 May 21 13:57	12° \mathbb{I} 12'08		desc. node	1766 May 08 10:57	19° \mathbb{Z} 33'42	
inferior conj	1765 May 29 18:02	8° \mathbb{I} 28'24	-2°19'29	inferior conj	1766 May 09 14:34	18° \mathbb{Z} 52'49	-0°20'05
minimum elong	1765 May 29 11:43	8° \mathbb{I} 37'16	2°17'21	minimum elong	1766 May 09 13:38	18° \mathbb{Z} 54'12	0°19'45
min. Earth dist.	1765 May 29 21:24	8° \mathbb{I} 23'40	0.54920 AU	min. Earth dist.	1766 May 11 10:39	17° \mathbb{Z} 47'07	0.55298 AU
morning rise	1765 Jun 07 15:38	4° \mathbb{I} 30'25		morning rise	1766 May 18 10:51	14° \mathbb{Z} 31'13	
direct	1765 Jun 10 20:59	4° \mathbb{I} 07'48		direct	1766 May 22 10:09	13° \mathbb{Z} 56'49	
morning max el	1765 Jun 23 09:47	10° \mathbb{I} 04'02	22°11'30	morning max el	1766 Jun 05 02:16	20° \mathbb{Z} 40'45	23°52'56
	1765 Jul 07 17:13	0° \mathbb{O}			1766 Jun 13 01:23	0° \mathbb{I}	
asc. node	1765 Jul 10 02:26	4° \mathbb{O} 28'23		asc. node	1766 Jun 26 23:29	24° \mathbb{I} 06'15	
morning set	1765 Jul 14 20:57	14° \mathbb{O} 06'14		morning set	1766 Jun 29 08:35	29° \mathbb{I} 02'20	
					1766 Jun 29 19:30	0° \mathbb{O}	
superior conj	1765 Jul 22 01:55	29° \mathbb{O} 22'09	1°37'33				
minimum elong	1765 Jul 22 00:04	29° \mathbb{O} 12'20	1°37'24	superior conj	1766 Jul 06 09:14	14° \mathbb{O} 09'49	1°24'51
	1765 Jul 22 09:06	0° \mathbb{Q}		minimum elong	1766 Jul 06 06:52	13° \mathbb{O} 57'03	1°24'33
max. Earth dist.	1765 Jul 25 10:19	6° \mathbb{Q} 20'47	1.34460 AU	max. Earth dist.	1766 Jul 08 11:23	18° \mathbb{O} 39'02	1.33322 AU
evening rise	1765 Jul 30 02:03	15° \mathbb{Q} 39'09		evening rise	1766 Jul 13 19:46	29° \mathbb{O} 45'46	
	1765 Aug 06 21:05	0° \mathbb{M}			1766 Jul 13 22:36	0° \mathbb{Q}	
desc. node	1765 Aug 17 13:17	17° \mathbb{M} 09'18			1766 Jul 30 22:21	0° \mathbb{M}	
	1765 Aug 27 01:38	0° Ω		desc. node	1766 Aug 04 10:17	6° \mathbb{M} 32'51	

evening max el	1766 Aug 16 11:23	20° \cap 50'04	27°25'02	desc. node	1767 Jul 22 07:19	25° Ω 11'34	
retrograde	1766 Aug 30 01:53	28° \cap 07'51			1767 Jul 26 08:35	0° \cap	
evening set	1766 Sep 06 05:44	25° \cap 27'52		evening max el	1767 Jul 29 19:20	3° \cap 32'42	27°16'40
min. Earth dist.	1766 Sep 09 21:48	22° \cap 12'15	0.63839 AU	retrograde	1767 Aug 12 15:03	10° \cap 48'14	
inferior conj	1766 Sep 12 10:27	19° \cap 35'50	-3°16'19	evening set	1767 Aug 19 19:09	8° \cap 24'20	
minimum elong	1766 Sep 12 15:23	19° \cap 23'04	3°14'45	min. Earth dist.	1767 Aug 23 09:23	5° \cap 35'28	0.62028 AU
morning rise	1766 Sep 19 02:08	14° \cap 15'25		inferior conj	1767 Aug 26 09:44	2° \cap 49'47	-4°06'24
direct	1766 Sep 21 15:09	13° \cap 43'24		minimum elong	1767 Aug 26 14:58	2° \cap 37'46	4°05'11
asc. node	1766 Sep 22 22:40	13° \cap 52'05			1767 Aug 29 16:44	30° κ Ω	
morning max el	1766 Sep 28 04:15	17° \cap 09'08	17°54'01	morning rise	1767 Sep 02 12:18	27° Ω 49'06	
	1766 Oct 07 09:19	0° Ω		direct	1767 Sep 04 22:48	27° Ω 23'18	
morning set	1766 Oct 15 00:02	12° Ω 58'14		asc. node	1767 Sep 09 19:44	29° Ω 09'31	
	1766 Oct 25 01:04	0° \cap			1767 Sep 10 21:15	0° \cap	
				morning max el	1767 Sep 11 19:29	0° \cap 51'13	17°54'13
superior conj	1766 Oct 27 14:09	4° \cap 11'38	0°25'34	morning set	1767 Sep 27 18:51	25° \cap 53'13	
minimum elong	1766 Oct 27 16:53	4° \cap 22'47	0°25'11		1767 Sep 30 01:29	0° Ω	
desc. node	1766 Oct 31 09:35	10° \cap 22'28					
max. Earth dist.	1766 Nov 02 07:37	13° \cap 26'47	1.44274 AU	superior conj	1767 Oct 08 14:06	15° Ω 02'48	1°02'52
evening rise	1766 Nov 12 12:41	29° \cap 25'45		minimum elong	1767 Oct 08 18:43	15° Ω 22'37	1°02'17
	1766 Nov 12 21:35	0° κ		max. Earth dist.	1767 Oct 15 21:39	27° Ω 18'30	1.42890 AU
	1766 Dec 03 04:06	0° Σ			1767 Oct 17 13:21	0° \cap	
evening max el	1766 Dec 10 16:34	9° Σ 13'42	20°34'27	desc. node	1767 Oct 18 06:37	1° \cap 09'42	
retrograde	1766 Dec 18 18:55	14° Σ 00'23		evening rise	1767 Oct 22 23:46	8° \cap 39'06	
asc. node	1766 Dec 19 21:56	13° Σ 53'17			1767 Nov 06 03:01	0° κ	
evening set	1766 Dec 22 15:54	12° Σ 33'55		evening max el	1767 Nov 23 13:14	22° κ 44'24	21°46'25
inferior conj	1766 Dec 28 01:20	6° Σ 25'27	2°30'50	retrograde	1767 Dec 02 15:54	28° κ 09'46	
minimum elong	1766 Dec 27 22:43	6° Σ 34'21	2°30'03	evening set	1767 Dec 06 23:39	26° κ 27'14	
min. Earth dist.	1766 Dec 28 15:58	5° Σ 35'36	0.67307 AU	asc. node	1767 Dec 06 18:59	26° κ 36'22	
morning rise	1767 Jan 02 05:22	0° Σ 12'19		inferior conj	1767 Dec 12 08:03	20° κ 09'48	1°48'41
	1767 Jan 02 10:58	30° κ κ		minimum elong	1767 Dec 12 05:52	20° κ 17'24	1°47'52
direct	1767 Jan 07 19:01	27° κ 44'38		min. Earth dist.	1767 Dec 12 11:02	19° κ 59'30	0.67726 AU
	1767 Jan 13 20:24	0° Σ		morning rise	1767 Dec 17 11:56	13° κ 57'43	
morning max el	1767 Jan 19 00:05	4° Σ 25'46	24°23'18	direct	1767 Dec 22 10:23	11° κ 51'38	
desc. node	1767 Jan 27 08:47	14° Σ 11'17		morning max el	1768 Jan 01 09:50	17° κ 46'32	22°54'53
	1767 Feb 07 15:53	0° \approx			1768 Jan 11 13:25	0° Σ	
morning set	1767 Feb 23 22:10	26° \approx 17'04		desc. node	1768 Jan 14 05:51	3° Σ 40'08	
	1767 Feb 26 00:43	0° κ			1768 Jan 31 18:37	0° \approx	
max. Earth dist.	1767 Feb 27 14:36	2° κ 50'02	1.37760 AU	morning set	1768 Feb 04 20:28	6° \approx 38'52	
				max. Earth dist.	1768 Feb 09 10:06	14° \approx 21'20	1.39900 AU
superior conj	1767 Mar 06 12:29	15° κ 45'04	-1°38'19				
minimum elong	1767 Mar 06 16:44	16° κ 05'31	1°37'49	superior conj	1768 Feb 17 03:44	28° \approx 05'00	-1°56'31
	1767 Mar 13 18:23	0° Υ		minimum elong	1768 Feb 17 07:11	28° \approx 20'48	1°56'19
evening rise	1767 Mar 15 05:18	2° Υ 53'08			1768 Feb 18 04:45	0° κ	
asc. node	1767 Mar 17 21:17	8° Υ 07'02		evening rise	1768 Feb 26 20:29	16° κ 20'40	
evening max el	1767 Mar 31 21:59	29° Υ 54'04	19°07'52	asc. node	1768 Mar 03 18:19	27° κ 23'30	
	1767 Apr 01 00:27	0° Σ			1768 Mar 05 05:47	0° Υ	
retrograde	1767 Apr 09 16:52	4° Σ 09'23		evening max el	1768 Mar 14 01:36	12° Υ 23'04	18°28'46
evening set	1767 Apr 11 20:28	3° Σ 55'10		retrograde	1768 Mar 21 14:46	16° Υ 05'59	
	1767 Apr 19 16:02	30° κ Υ		evening set	1768 Mar 24 00:05	15° Υ 44'49	
inferior conj	1767 Apr 20 01:59	29° Υ 43'01	1°27'42	inferior conj	1768 Mar 31 10:26	11° Υ 13'26	2°44'04
minimum elong	1767 Apr 20 05:14	29° Υ 37'28	1°26'39	minimum elong	1768 Mar 31 14:23	11° Υ 05'32	2°43'09
min. Earth dist.	1767 Apr 23 01:48	27° Υ 41'02	0.56554 AU	min. Earth dist.	1768 Apr 03 20:50	8° Υ 29'51	0.58419 AU
desc. node	1767 Apr 25 07:59	26° Υ 17'26		morning rise	1768 Apr 08 01:47	5° Υ 46'41	
morning rise	1767 Apr 28 11:00	24° Υ 47'25		desc. node	1768 Apr 11 05:02	4° Υ 35'04	
direct	1767 May 03 10:52	23° Υ 49'16		direct	1768 Apr 14 01:40	4° Υ 13'47	
	1767 May 16 11:24	0° Σ		morning max el	1768 Apr 28 10:51	11° Υ 54'21	26°50'09
morning max el	1767 May 17 16:44	1° Σ 08'03	25°31'04		1768 May 12 13:45	0° Σ	
	1767 Jun 06 20:19	0° Π		morning set	1768 May 28 06:28	28° Σ 49'03	
morning set	1767 Jun 13 20:17	13° Π 58'25			1768 May 28 19:57	0° Π	
asc. node	1767 Jun 13 20:32	13° Π 59'44		asc. node	1768 May 30 17:37	4° Π 03'34	
superior conj	1767 Jun 20 19:41	29° Π 05'41	1°07'39	superior conj	1768 Jun 04 07:28	14° Π 03'44	0°46'44
minimum elong	1767 Jun 20 17:20	28° Π 52'48	1°07'15	minimum elong	1768 Jun 04 05:35	13° Π 53'23	0°46'22
	1767 Jun 21 05:36	0° Σ		max. Earth dist.	1768 Jun 04 07:31	14° Π 04'00	1.32230 AU
max. Earth dist.	1767 Jun 21 19:36	1° Σ 16'28	1.32583 AU	evening rise	1768 Jun 11 05:02	29° Π 00'58	
evening rise	1767 Jun 27 21:39	14° Σ 15'52			1768 Jun 11 16:18	0° Σ	
	1767 Jul 05 23:53	0° Ω			1768 Jun 28 07:31	0° Ω	



































































































































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evening max el	1768 Jul 10 21:21	15°♎32'12	26°35'07		1769 Jun 26 12:16	0°♎	
retrograde	1768 Jul 24 20:44	22°♎45'17		retrograde	1769 Jul 06 16:48	3°♎53'39	
evening set	1768 Jul 31 13:53	20°♎50'51		evening set	1769 Jul 12 09:39	2°♎37'49	
min. Earth dist.	1768 Aug 04 10:47	18°♎14'24	0.60000 AU	min. Earth dist.	1769 Jul 17 04:21	29°♊55'25	0.57962 AU
inferior conj	1768 Aug 07 18:04	15°♎35'43	-4°43'26		1769 Jul 17 01:36	30°♊	
minimum elong	1768 Aug 07 21:45	15°♎28'17	4°43'00	inferior conj	1769 Jul 20 07:58	27°♊44'03	-4°56'43
morning rise	1768 Aug 15 07:39	10°♎57'17		minimum elong	1769 Jul 20 07:38	27°♊44'39	4°56'43
direct	1768 Aug 17 18:12	10°♎35'25		morning rise	1769 Jul 28 08:07	23°♊27'55	
morning max el	1768 Aug 25 06:45	14°♎14'59	18°13'43	direct	1769 Jul 30 21:00	23°♊08'14	
asc. node	1768 Aug 26 16:48	15°♎43'46		morning max el	1769 Aug 08 10:50	27°♊10'46	18°53'50
	1768 Sep 05 01:44	0°♏			1769 Aug 11 01:40	0°♎	
morning set	1768 Sep 10 04:32	9°♏30'38		asc. node	1769 Aug 13 13:52	3°♎19'23	
				morning set	1769 Aug 25 00:42	23°♎38'53	
					1769 Aug 28 06:07	0°♏	
superior conj	1768 Sep 19 15:15	27°♏08'08	1°27'58	superior conj	1769 Sep 02 12:12	10°♏12'19	1°41'41
minimum elong	1768 Sep 19 19:01	27°♏25'13	1°27'37	minimum elong	1769 Sep 02 14:06	10°♏21'24	1°41'36
	1768 Sep 21 05:25	0°♏		max. Earth dist.	1769 Sep 09 09:47	22°♏57'29	1.39021 AU
max. Earth dist.	1768 Sep 27 05:48	10°♏29'29	1.41058 AU	evening rise	1769 Sep 13 07:39	29°♏48'13	
evening rise	1768 Oct 02 03:44	18°♏40'05			1769 Sep 13 10:24	0°♏	
desc. node	1768 Oct 04 03:39	21°♏53'52		desc. node	1769 Sep 21 00:40	12°♏31'20	
	1768 Oct 09 07:17	0°♏			1769 Oct 02 16:29	0°♏	
	1768 Oct 30 14:55	0°♏		evening max el	1769 Oct 18 17:48	19°♏53'19	24°24'55
evening max el	1768 Nov 05 04:58	6°♏16'48	23°05'16	retrograde	1769 Oct 30 01:13	26°♏30'16	
retrograde	1768 Nov 15 10:26	12°♏20'50		evening set	1769 Nov 04 11:18	24°♏14'06	
evening set	1768 Nov 20 06:39	10°♏21'23		min. Earth dist.	1769 Nov 09 03:45	18°♏51'42	0.67543 AU
asc. node	1768 Nov 22 16:02	7°♏54'17		inferior conj	1769 Nov 09 21:58	17°♏50'37	0°07'39
inferior conj	1768 Nov 25 15:31	3°♏58'49	1°00'31	minimum elong	1769 Nov 09 21:46	17°♏51'15	0°07'34
minimum elong	1768 Nov 25 14:09	4°♏03'31	0°59'57	transit middle	1769 Nov 09 21:46	17°♏51'15	0°07'34
min. Earth dist.	1768 Nov 25 07:45	4°♏25'33	0.67799 AU	transit begin	1769 Nov 09 19:21	17°♏59'23	
	1768 Nov 28 16:56	30°♏		transit end	1769 Nov 10 00:12	17°♏43'08	
morning rise	1768 Nov 30 21:33	27°♏49'48		asc. node	1769 Nov 09 13:04	18°♏20'28	
direct	1768 Dec 05 05:25	26°♏06'29		morning rise	1769 Nov 15 08:16	11°♏47'02	
	1768 Dec 12 17:09	0°♏		direct	1769 Nov 19 02:59	10°♏25'11	
morning max el	1768 Dec 14 00:11	1°♏14'44	21°30'11	morning max el	1769 Nov 26 21:48	14°♏53'19	20°15'40
desc. node	1768 Dec 31 02:53	23°♏36'09			1769 Dec 08 15:59	0°♏	
	1769 Jan 04 10:27	0°♏		desc. node	1769 Dec 17 23:55	13°♏51'53	
morning set	1769 Jan 14 13:40	15°♏37'47		morning set	1769 Dec 24 11:12	23°♏46'46	
max. Earth dist.	1769 Jan 21 10:17	26°♏42'53	1.41954 AU		1769 Dec 28 11:07	0°♏	
	1769 Jan 23 09:46	0°♏		max. Earth dist.	1770 Jan 03 18:14	9°♏58'43	1.43643 AU
superior conj	1769 Jan 28 22:16	9°♏23'54	-2°04'37	superior conj	1770 Jan 09 15:27	19°♏32'24	-1°57'35
minimum elong	1769 Jan 28 22:37	9°♏25'25	2°04'36	minimum elong	1770 Jan 09 10:33	19°♏12'13	1°57'20
evening rise	1769 Feb 08 22:56	29°♏07'48			1770 Jan 15 21:30	0°♏	
	1769 Feb 09 10:22	0°♏		evening rise	1770 Jan 22 08:26	11°♏06'34	
asc. node	1769 Feb 18 15:22	16°♏11'36			1770 Feb 02 12:24	0°♏	
evening max el	1769 Feb 25 11:09	25°♏17'40	18°09'36	asc. node	1770 Feb 05 12:24	4°♏22'51	
retrograde	1769 Mar 04 06:03	28°♏44'03		evening max el	1770 Feb 08 23:30	8°♏29'51	18°09'52
evening set	1769 Mar 06 21:00	28°♏13'44		retrograde	1770 Feb 15 10:48	11°♏54'18	
inferior conj	1769 Mar 13 15:08	23°♏21'38	3°27'20	evening set	1770 Feb 18 06:57	11°♏13'36	
minimum elong	1769 Mar 13 17:34	23°♏15'59	3°27'01	inferior conj	1770 Feb 24 12:38	6°♏01'05	3°43'37
min. Earth dist.	1769 Mar 16 21:53	20°♏20'08	0.60554 AU	minimum elong	1770 Feb 24 13:02	6°♏00'02	3°43'36
morning rise	1769 Mar 20 12:07	17°♏33'45		min. Earth dist.	1770 Feb 27 07:11	3°♏06'22	0.62636 AU
direct	1769 Mar 27 04:37	15°♏24'19		morning rise	1770 Mar 02 18:01	0°♏00'48	
desc. node	1769 Mar 29 02:04	15°♏34'13			1770 Mar 02 18:27	30°♏	
morning max el	1769 Apr 10 10:56	23°♏16'20	27°37'51	direct	1770 Mar 09 16:57	27°♏23'49	
	1769 Apr 16 11:20	0°♏		desc. node	1770 Mar 15 23:07	29°♏12'49	
	1769 May 05 17:13	0°♏			1770 Mar 17 06:47	0°♏	
morning set	1769 May 12 13:15	13°♏26'53		morning max el	1770 Mar 23 16:32	5°♏19'02	27°48'33
asc. node	1769 May 17 14:40	24°♏12'10			1770 Apr 11 07:00	0°♏	
max. Earth dist.	1769 May 18 19:16	26°♏48'08	1.32259 AU	morning set	1770 Apr 26 14:31	27°♏45'06	
superior conj	1769 May 19 18:47	28°♏56'52	0°22'48		1770 Apr 27 17:02	0°♏	
minimum elong	1769 May 19 17:46	28°♏51'17	0°22'35	max. Earth dist.	1770 May 02 03:06	9°♏16'27	1.32688 AU
	1769 May 20 06:17	0°♏		superior conj	1770 May 04 03:56	13°♏39'31	-0°03'26
evening rise	1769 May 26 15:35	13°♏52'36		minimum elong	1770 May 04 04:06	13°♏40'23	0°03'24
	1769 Jun 03 18:16	0°♏					
evening max el	1769 Jun 22 16:20	26°♏45'23	25°23'45				

behind sun begin	1770 May 03 23:00	13°♄12'47		minimum elong	1771 Apr 18 10:35	28°♄13'46	0°30'40
behind sun end	1770 May 04 09:12	14°♄08'00			1771 Apr 19 06:34	0°♄	
asc. node	1770 May 04 11:42	14°♄21'35		asc. node	1771 Apr 21 08:44	4°♄27'55	
evening rise	1770 May 11 03:24	28°♄44'22		evening rise	1771 Apr 25 14:39	13°♄30'05	
	1770 May 11 17:44	0°♄			1771 May 04 00:33	0°♄	
	1770 May 28 20:20	0°♄		evening max el	1771 May 16 22:24	17°♄55'00	22°16'49
evening max el	1770 Jun 04 06:35	7°♄23'51	23°52'39	retrograde	1771 May 29 20:08	24°♄17'43	
desc. node	1770 Jun 11 22:22	12°♄53'49		desc. node	1771 May 29 19:23	24°♄17'43	
retrograde	1770 Jun 18 00:35	14°♄18'00		evening set	1771 Jun 01 17:49	23°♄59'05	
evening set	1770 Jun 22 07:01	13°♄37'51		min. Earth dist.	1771 Jun 10 04:49	20°♄20'59	0.55147 AU
min. Earth dist.	1770 Jun 28 17:17	10°♄33'53	0.56232 AU	inferior conj	1771 Jun 11 02:11	19°♄50'52	-3°20'07
inferior conj	1770 Jul 01 01:40	9°♄07'55	-4°32'14	minimum elong	1771 Jun 10 18:23	20°♄01'53	3°17'55
minimum elong	1770 Jun 30 20:02	9°♄16'33	4°31'22	morning rise	1771 Jun 19 20:49	15°♄58'42	
morning rise	1770 Jul 09 11:42	5°♄09'40		direct	1771 Jun 22 20:17	15°♄38'43	
direct	1770 Jul 12 04:51	4°♄50'47		morning max el	1771 Jul 04 11:31	21°♄04'09	21°17'07
morning max el	1770 Jul 22 04:51	9°♄28'59	19°55'20		1771 Jul 11 22:00	0°♄	
asc. node	1770 Jul 31 10:55	21°♄42'29		asc. node	1771 Jul 18 07:58	10°♄41'48	
	1770 Aug 05 01:11	0°♄		morning set	1771 Jul 24 12:15	22°♄54'25	
morning set	1770 Aug 09 04:06	8°♄09'03			1771 Jul 27 21:44	0°♄	
superior conj	1770 Aug 16 23:36	24°♄00'01	1°45'54	superior conj	1771 Jul 31 21:16	8°♄19'15	1°42'27
minimum elong	1770 Aug 16 23:40	24°♄00'20	1°45'55	minimum elong	1771 Jul 31 19:56	8°♄12'25	1°42'23
	1770 Aug 20 00:41	0°♄		max. Earth dist.	1771 Aug 05 01:19	16°♄48'39	1.35296 AU
max. Earth dist.	1770 Aug 22 14:29	4°♄55'59	1.37034 AU	evening rise	1771 Aug 09 07:59	25°♄08'16	
evening rise	1770 Aug 26 10:29	12°♄01'07			1771 Aug 11 22:35	0°♄	
	1770 Sep 06 00:40	0°♄		desc. node	1771 Aug 25 18:43	23°♄05'52	
desc. node	1770 Sep 07 21:41	2°♄57'13			1771 Aug 30 12:24	0°♄	
	1770 Sep 27 20:19	0°♄		evening max el	1771 Sep 13 17:57	17°♄10'29	26°37'24
evening max el	1770 Oct 01 05:48	3°♄32'52	25°38'11	retrograde	1771 Sep 26 16:20	24°♄24'09	
retrograde	1770 Oct 13 11:20	10°♄33'09		evening set	1771 Oct 03 06:18	21°♄42'42	
evening set	1770 Oct 19 11:50	8°♄02'07		min. Earth dist.	1771 Oct 07 07:38	17°♄32'16	0.66034 AU
min. Earth dist.	1770 Oct 23 20:29	3°♄15'02	0.66960 AU	inferior conj	1771 Oct 09 00:31	15°♄30'15	-1°46'39
inferior conj	1770 Oct 25 01:35	1°♄42'02	-0°48'36	minimum elong	1771 Oct 09 03:21	15°♄21'46	1°45'30
minimum elong	1770 Oct 25 02:51	1°♄38'01	0°48'04	asc. node	1771 Oct 14 07:09	10°♄13'11	
	1770 Oct 26 10:01	30°♄		morning rise	1771 Oct 15 00:58	9°♄46'06	
asc. node	1770 Oct 27 10:07	28°♄48'36		direct	1771 Oct 17 23:18	8°♄57'58	
morning rise	1770 Oct 30 18:06	25°♄46'41		morning max el	1771 Oct 24 14:41	12°♄36'25	18°30'12
direct	1770 Nov 03 01:33	24°♄43'27			1771 Nov 06 02:14	0°♄	
morning max el	1770 Nov 10 03:06	28°♄41'33	19°15'03	morning set	1771 Nov 13 15:24	12°♄04'35	
	1770 Nov 11 08:41	0°♄		desc. node	1771 Nov 21 17:57	25°♄00'10	
	1770 Dec 02 01:44	0°♄			1771 Nov 24 21:49	0°♄	
morning set	1770 Dec 03 13:00	2°♄17'03		superior conj	1771 Nov 29 08:28	6°♄59'35	-0°49'21
desc. node	1770 Dec 04 20:55	4°♄21'13		minimum elong	1771 Nov 29 02:11	6°♄34'53	0°48'31
max. Earth dist.	1770 Dec 17 09:08	23°♄56'01	1.44747 AU	max. Earth dist.	1771 Nov 30 03:46	8°♄15'23	1.45140 AU
superior conj	1770 Dec 20 07:01	28°♄32'37	-1°31'45		1771 Dec 13 23:29	0°♄	
minimum elong	1770 Dec 19 22:18	27°♄58'02	1°30'55	evening rise	1771 Dec 15 09:36	2°♄14'54	
	1770 Dec 21 05:00	0°♄		greatest brilliancy	1771 Dec 24 19:36	17°♄07'16	-0.8m
evening rise	1771 Jan 03 20:44	22°♄09'21			1772 Jan 02 11:48	0°♄	
	1771 Jan 08 14:30	0°♄		evening max el	1772 Jan 06 21:27	5°♄18'30	19°05'28
asc. node	1771 Jan 23 09:25	21°♄45'51		asc. node	1772 Jan 10 06:26	8°♄07'17	
evening max el	1771 Jan 23 11:44	21°♄51'47	18°28'51	retrograde	1772 Jan 13 19:54	9°♄15'23	
retrograde	1771 Jan 30 00:39	25°♄27'06		evening set	1772 Jan 17 03:39	8°♄11'12	
evening set	1771 Feb 02 02:09	24°♄35'08		inferior conj	1772 Jan 22 18:12	2°♄23'06	3°21'22
inferior conj	1771 Feb 07 22:50	19°♄03'41	3°39'51	minimum elong	1772 Jan 22 15:57	2°♄30'15	3°20'59
minimum elong	1771 Feb 07 21:36	19°♄07'20	3°39'45	min. Earth dist.	1772 Jan 24 06:04	0°♄29'36	0.65861 AU
min. Earth dist.	1771 Feb 10 02:00	16°♄34'18	0.64437 AU		1772 Jan 24 15:37	30°♄	
morning rise	1771 Feb 13 16:30	12°♄56'17		morning rise	1772 Jan 28 03:58	26°♄11'39	
direct	1771 Feb 20 12:40	10°♄05'53		direct	1772 Feb 03 14:56	23°♄21'50	
desc. node	1771 Mar 02 20:07	14°♄57'23			1772 Feb 15 12:17	0°♄	
morning max el	1771 Mar 06 01:34	17°♄56'27	27°23'31	morning max el	1772 Feb 16 11:25	0°♄56'58	26°28'33
	1771 Mar 16 04:46	0°♄		desc. node	1772 Feb 17 17:09	2°♄13'44	
	1771 Apr 04 03:58	0°♄			1772 Mar 09 05:29	0°♄	
morning set	1771 Apr 10 07:38	11°♄35'26		morning set	1772 Mar 23 12:56	24°♄46'20	
max. Earth dist.	1771 Apr 15 03:16	21°♄18'05	1.33541 AU		1772 Mar 26 06:30	0°♄	
superior conj	1771 Apr 18 09:02	28°♄05'34	-0°31'00	max. Earth dist.	1772 Mar 27 16:24	2°♄45'56	1.34846 AU

superior conj	1772 Apr 01 07:46	12°♄07'30	-0°58'44			1773 Mar 02 01:13	0°♄	
minimum elong	1772 Apr 01 10:42	12°♄22'38	0°58'12	morning set		1773 Mar 06 01:39	7°♄04'15	
asc. node	1772 Apr 07 05:46	24°♄26'25		max. Earth dist.		1773 Mar 09 17:59	13°♄48'57	1.36590 AU
evening rise	1772 Apr 08 23:23	28°♄02'31						
	1772 Apr 09 22:13	0°♄		superior conj		1773 Mar 15 21:20	25°♄37'41	-1°24'54
evening max el	1772 Apr 27 22:45	28°♄47'58	20°49'50	minimum elong		1773 Mar 16 01:20	25°♄57'29	1°24'20
	1772 Apr 29 06:13	0°♄				1773 Mar 18 01:59	0°♄	
retrograde	1772 May 09 09:24	4°♄21'57		evening rise		1773 Mar 24 03:25	12°♄15'14	
evening set	1772 May 11 12:51	4°♄10'58		asc. node		1773 Mar 25 02:49	14°♄12'47	
desc. node	1772 May 15 16:24	2°♄54'10				1773 Apr 02 14:55	0°♄	
inferior conj	1772 May 20 19:57	0°♄13'01	-1°29'30	evening max el		1773 Apr 10 10:53	10°♄19'23	19°39'33
minimum elong	1772 May 20 15:43	0°♄19'03	1°28'00	retrograde		1773 Apr 20 03:55	15°♄00'30	
	1772 May 21 05:05	30°♄8		evening set		1773 Apr 22 04:56	14°♄48'58	
min. Earth dist.	1772 May 21 17:17	29°♄42'37	0.54959 AU	inferior conj		1773 Apr 30 21:36	10°♄45'52	0°28'36
morning rise	1772 May 29 18:13	26°♄07'14		minimum elong		1773 Apr 30 22:50	10°♄43'56	0°28'10
direct	1772 Jun 02 05:47	25°♄41'07		desc. node		1773 May 02 13:24	9°♄43'09	
	1772 Jun 13 01:05	0°♄		min. Earth dist.		1773 May 03 07:36	9°♄14'55	0.55732 AU
morning max el	1772 Jun 15 08:09	1°♄58'29	22°54'09	morning rise		1773 May 09 14:09	6°♄09'46	
asc. node	1772 Jul 04 05:00	0°♄07'25		direct		1773 May 13 23:14	5°♄26'52	
	1772 Jul 04 03:30	0°♄		morning max el		1773 May 27 23:10	12°♄28'15	24°35'56
morning set	1772 Jul 07 23:06	7°♄47'54				1773 Jun 10 10:26	0°♄	
				asc. node		1773 Jun 21 02:05	19°♄52'21	
superior conj	1772 Jul 15 01:48	22°♄58'50	1°32'48	morning set		1773 Jun 22 10:57	22°♄44'19	
minimum elong	1772 Jul 14 23:40	22°♄47'25	1°32'34			1773 Jun 25 20:13	0°♄	
max. Earth dist.	1772 Jul 17 20:59	28°♄53'32	1.33925 AU					
	1772 Jul 18 09:44	0°♄		superior conj		1773 Jun 29 10:43	7°♄50'46	1°18'04
evening rise	1772 Jul 22 19:28	8°♄56'07		minimum elong		1773 Jun 29 08:18	7°♄37'37	1°17'43
	1772 Aug 03 09:38	0°♄		max. Earth dist.		1773 Jul 01 01:11	11°♄19'05	1.32960 AU
desc. node	1772 Aug 11 15:45	12°♄48'40		evening rise		1773 Jul 06 17:02	23°♄13'39	
	1772 Aug 25 14:55	0°♄				1773 Jul 10 02:45	0°♄	
evening max el	1772 Aug 26 05:50	0°♄36'08	27°15'21			1773 Jul 28 03:08	0°♄	
retrograde	1772 Sep 08 15:54	7°♄54'55		desc. node		1773 Jul 29 12:46	1°♄54'45	
evening set	1772 Sep 15 16:12	5°♄11'02		evening max el		1773 Aug 08 15:59	13°♄38'19	27°25'25
min. Earth dist.	1772 Sep 19 11:00	1°♄36'35	0.64741 AU	retrograde		1773 Aug 22 09:22	20°♄56'04	
	1772 Sep 20 22:25	30°♄8		evening set		1773 Aug 29 14:16	18°♄21'14	
inferior conj	1772 Sep 21 16:28	29°♄10'16	-2°44'24	min. Earth dist.		1773 Sep 02 04:50	15°♄18'09	0.63101 AU
minimum elong	1772 Sep 21 20:47	28°♄58'28	2°42'52	inferior conj		1773 Sep 04 22:46	12°♄35'57	-3°38'41
morning rise	1772 Sep 28 02:18	23°♄40'28		minimum elong		1773 Sep 05 04:00	12°♄23'04	3°37'12
asc. node	1772 Sep 30 04:11	23°♄05'25		morning rise		1773 Sep 11 19:03	7°♄23'35	
direct	1772 Sep 30 17:54	23°♄03'41		direct		1773 Sep 14 06:32	6°♄54'42	
morning max el	1772 Oct 07 06:00	26°♄31'47	18°02'11	asc. node		1773 Sep 17 01:15	7°♄31'51	
	1772 Oct 10 05:54	0°♄		morning max el		1773 Sep 20 22:07	10°♄20'39	17°51'46
morning set	1772 Oct 24 22:53	23°♄17'54				1773 Oct 04 01:00	0°♄	
	1772 Oct 28 23:14	0°♄		morning set		1773 Oct 07 06:40	5°♄41'09	
superior conj	1772 Nov 07 17:14	15°♄54'02	-0°00'38	superior conj		1773 Oct 19 01:24	25°♄58'35	0°42'50
minimum elong	1772 Nov 07 17:09	15°♄53'42	0°00'37	minimum elong		1773 Oct 19 05:22	26°♄15'10	0°42'17
behind sun begin	1772 Nov 07 06:36	15°♄11'27				1773 Oct 21 11:38	0°♄	
behind sun end	1772 Nov 08 03:41	16°♄35'53		max. Earth dist.		1773 Oct 25 14:40	6°♄42'55	1.43749 AU
desc. node	1772 Nov 07 15:02	15°♄45'11		desc. node		1773 Oct 25 12:04	6°♄32'29	
max. Earth dist.	1772 Nov 11 22:31	22°♄36'49	1.44788 AU	evening rise		1773 Nov 03 10:18	20°♄36'48	
	1772 Nov 16 15:23	0°♄				1773 Nov 09 13:43	0°♄	
evening rise	1772 Nov 24 02:12	11°♄33'57				1773 Dec 01 00:11	0°♄	
	1772 Dec 06 03:54	0°♄		evening max el		1773 Dec 03 02:48	2°♄17'51	21°04'00
greatest brilliancy	1772 Dec 08 00:33	2°♄46'23	-0.6m	retrograde		1773 Dec 11 15:12	7°♄20'50	
evening max el	1772 Dec 20 02:50	18°♄47'37	19°58'02	asc. node		1773 Dec 14 00:30	6°♄49'04	
asc. node	1772 Dec 27 03:27	23°♄12'45		evening set		1773 Dec 15 16:27	5°♄47'56	
retrograde	1772 Dec 27 17:31	23°♄14'39				1773 Dec 20 18:06	30°♄8	
evening set	1772 Dec 31 09:04	21°♄56'54		inferior conj		1773 Dec 21 01:16	29°♄35'22	2°13'47
inferior conj	1773 Jan 05 19:49	15°♄54'59	2°51'51	minimum elong		1773 Dec 20 22:46	29°♄43'55	2°12'57
minimum elong	1773 Jan 05 17:11	16°♄03'49	2°51'10	min. Earth dist.		1773 Dec 21 10:52	29°♄02'17	0.67527 AU
min. Earth dist.	1773 Jan 06 17:48	14°♄41'32	0.66886 AU	morning rise		1773 Dec 26 04:54	23°♄22'15	
morning rise	1773 Jan 11 01:04	9°♄03'44		direct		1773 Dec 31 12:09	21°♄03'07	
direct	1773 Jan 16 23:02	7°♄03'34		morning max el		1774 Jan 11 04:45	27°♄25'33	23°45'39
morning max el	1773 Jan 28 20:19	14°♄08'56	25°12'31			1774 Jan 13 14:44	0°♄	
desc. node	1773 Feb 03 14:11	20°♄35'39		desc. node		1774 Jan 21 11:15	9°♄43'49	
	1773 Feb 10 18:43	0°♄				1774 Feb 04 10:57	0°♄	

morning set	1774 Feb 15 15:36	18° \approx 11'48			1775 Jan 28 07:36	0° \approx	
max. Earth dist.	1774 Feb 19 12:56	24° \approx 57'08	1.38661 AU	max. Earth dist.	1775 Feb 01 09:52	6° \approx 48'17	1.40812 AU
	1774 Feb 22 08:35	0° \mathbb{H}					
superior conj	1774 Feb 26 21:59	8° \mathbb{H} 26'02	-1°47'01	superior conj	1775 Feb 09 05:03	20° \approx 21'24	-2°01'30
minimum elong	1774 Feb 27 02:07	8° \mathbb{H} 45'32	1°46'37	minimum elong	1775 Feb 09 07:31	20° \approx 32'23	2°01'23
evening rise	1774 Mar 08 00:06	26° \mathbb{H} 00'33		evening rise	1775 Feb 14 12:08	0° \mathbb{H}	
	1774 Mar 10 01:27	0° \mathbb{Y}		asc. node	1775 Feb 19 10:18	9° \mathbb{H} 11'24	
asc. node	1774 Mar 11 23:51	3° \mathbb{Y} 41'17			1775 Feb 26 20:52	22° \mathbb{H} 46'07	
evening max el	1774 Mar 24 09:41	22° \mathbb{Y} 28'53	18°48'50	evening max el	1775 Mar 03 10:07	0° \mathbb{Y}	
retrograde	1774 Apr 01 14:21	26° \mathbb{Y} 27'56		retrograde	1775 Mar 07 16:12	5° \mathbb{Y} 09'25	18°18'10
evening set	1774 Apr 03 20:24	26° \mathbb{Y} 11'04		evening set	1775 Mar 14 19:58	8° \mathbb{Y} 43'06	
inferior conj	1774 Apr 11 17:35	21° \mathbb{Y} 51'30	2°04'19	inferior conj	1775 Mar 17 07:55	8° \mathbb{Y} 18'04	
minimum elong	1774 Apr 11 21:31	21° \mathbb{Y} 44'19	2°03'11	minimum elong	1775 Mar 24 10:52	3° \mathbb{Y} 37'40	3°06'14
min. Earth dist.	1774 Apr 15 00:10	19° \mathbb{Y} 29'10	0.57295 AU	min. Earth dist.	1775 Mar 24 14:20	3° \mathbb{Y} 30'17	3°05'33
desc. node	1774 Apr 19 10:25	16° \mathbb{Y} 51'57			1775 Mar 27 21:04	0° \mathbb{Y} 43'35	0.59322 AU
morning rise	1774 Apr 19 19:31	16° \mathbb{Y} 41'47		morning rise	1775 Mar 28 19:14	30° \mathbb{R} \mathbb{H}	
direct	1774 Apr 25 06:28	15° \mathbb{Y} 29'26		desc. node	1775 Mar 31 18:16	28° \mathbb{H} 01'01	
morning max el	1774 May 09 14:25	22° \mathbb{Y} 59'09	26°07'51	direct	1775 Apr 06 07:28	26° \mathbb{H} 13'55	
	1774 May 15 20:41	0° \mathbb{B}			1775 Apr 07 02:31	26° \mathbb{H} 12'14	
	1774 Jun 03 04:51	0° \mathbb{II}		morning max el	1775 Apr 16 20:11	0° \mathbb{Y}	
morning set	1774 Jun 06 22:13	7° \mathbb{II} 38'15			1775 Apr 21 10:42	3° \mathbb{Y} 57'45	27°14'53
asc. node	1774 Jun 07 23:09	9° \mathbb{II} 50'29		morning set	1775 May 10 12:25	0° \mathbb{B}	
				asc. node	1775 May 22 07:08	22° \mathbb{B} 23'35	
superior conj	1774 Jun 13 21:58	22° \mathbb{II} 48'04	0°59'11		1775 May 25 20:11	29° \mathbb{B} 56'22	
minimum elong	1774 Jun 13 19:45	22° \mathbb{II} 35'58	0°58'48		1775 May 25 20:52	0° \mathbb{II}	
max. Earth dist.	1774 Jun 14 11:21	24° \mathbb{II} 01'36	1.32385 AU	superior conj	1775 May 29 09:42	7° \mathbb{II} 44'06	0°36'54
	1774 Jun 17 05:01	0° \mathbb{E}		minimum elong	1775 May 29 08:09	7° \mathbb{II} 35'31	0°36'35
evening rise	1774 Jun 20 21:34	7° \mathbb{E} 51'07		max. Earth dist.	1775 May 28 23:46	6° \mathbb{II} 49'24	1.32195 AU
	1774 Jul 02 13:29	0° \mathbb{O}		evening rise	1775 Jun 05 06:31	22° \mathbb{II} 39'34	
desc. node	1774 Jul 16 09:46	20° \mathbb{O} 09'12			1775 Jun 08 20:02	0° \mathbb{E}	
evening max el	1774 Jul 21 21:57	26° \mathbb{O} 04'45	27°03'08		1775 Jun 26 23:35	0° \mathbb{O}	
	1774 Jul 26 16:35	0° \mathbb{P}		desc. node	1775 Jul 03 06:47	7° \mathbb{O} 09'50	
retrograde	1774 Aug 04 19:37	3° \mathbb{P} 18'55		evening max el	1775 Jul 03 21:07	7° \mathbb{O} 44'32	26°08'05
evening set	1774 Aug 11 20:24	1° \mathbb{P} 06'23		retrograde	1775 Jul 17 21:04	14° \mathbb{O} 55'18	
	1774 Aug 13 11:42	30° \mathbb{R} \mathbb{O}		evening set	1775 Jul 24 05:43	13° \mathbb{O} 16'48	
min. Earth dist.	1774 Aug 15 12:14	28° \mathbb{O} 24'32	0.61180 AU	min. Earth dist.	1775 Jul 28 09:47	10° \mathbb{O} 40'15	0.59119 AU
inferior conj	1774 Aug 18 16:13	25° \mathbb{O} 39'48	-4°24'16	inferior conj	1775 Jul 31 17:07	8° \mathbb{O} 10'55	-4°52'48
minimum elong	1774 Aug 18 21:05	25° \mathbb{O} 29'13	4°23'22	minimum elong	1775 Jul 31 19:24	8° \mathbb{O} 06'36	4°52'39
morning rise	1774 Aug 25 23:27	20° \mathbb{O} 47'59		morning rise	1775 Aug 08 11:14	3° \mathbb{O} 42'02	
direct	1774 Aug 28 09:38	20° \mathbb{O} 24'06		direct	1775 Aug 10 22:43	3° \mathbb{O} 21'07	
asc. node	1774 Sep 03 22:20	23° \mathbb{O} 23'55		morning max el	1775 Aug 18 20:34	7° \mathbb{O} 08'43	18°28'11
morning max el	1774 Sep 04 12:02	23° \mathbb{O} 56'03	18°00'00	asc. node	1775 Aug 21 19:25	10° \mathbb{O} 25'55	
	1774 Sep 09 09:31	0° \mathbb{P}			1775 Sep 02 11:58	0° \mathbb{P}	
morning set	1774 Sep 20 08:31	18° \mathbb{P} 56'30		morning set	1775 Sep 03 23:09	2° \mathbb{P} 48'36	
	1774 Sep 26 09:21	0° \mathbb{U}					
superior conj	1774 Sep 30 12:38	7° \mathbb{U} 22'55	1°14'59	superior conj	1775 Sep 12 22:56	19° \mathbb{P} 55'19	1°35'04
minimum elong	1774 Sep 30 17:07	7° \mathbb{U} 42'37	1°14'29	minimum elong	1775 Sep 13 01:57	20° \mathbb{P} 09'19	1°34'51
max. Earth dist.	1774 Oct 08 02:23	20° \mathbb{U} 19'18	1.42157 AU		1775 Sep 18 12:37	0° \mathbb{U}	
desc. node	1774 Oct 12 09:07	27° \mathbb{U} 19'02		max. Earth dist.	1775 Sep 20 08:59	3° \mathbb{U} 13'55	1.40208 AU
evening rise	1774 Oct 14 03:13	0° \mathbb{M} 07'24		evening rise	1775 Sep 24 17:06	10° \mathbb{U} 36'03	
	1774 Oct 14 01:21	0° \mathbb{M}		desc. node	1775 Sep 29 06:08	18° \mathbb{U} 00'46	
	1774 Nov 03 03:46	0° \mathbb{J}			1775 Oct 07 00:07	0° \mathbb{M}	
evening max el	1774 Nov 15 21:22	15° \mathbb{J} 49'48	22°19'29	evening max el	1775 Oct 29 11:38	29° \mathbb{M} 23'52	23°39'22
retrograde	1774 Nov 25 11:11	21° \mathbb{J} 31'21			1775 Oct 30 02:21	0° \mathbb{J}	
evening set	1774 Nov 30 00:04	19° \mathbb{J} 41'46		retrograde	1775 Nov 09 04:08	5° \mathbb{J} 42'15	
asc. node	1774 Nov 30 21:32	18° \mathbb{J} 53'43		evening set	1775 Nov 14 06:16	3° \mathbb{J} 35'24	
inferior conj	1774 Dec 05 08:31	13° \mathbb{J} 21'57	1°28'55	asc. node	1775 Nov 17 18:35	29° \mathbb{M} 43'50	
minimum elong	1774 Dec 05 06:38	13° \mathbb{J} 28'30	1°28'10		1775 Nov 17 13:35	30° \mathbb{R} \mathbb{M}	
min. Earth dist.	1774 Dec 05 06:54	13° \mathbb{J} 27'33	0.67807 AU	min. Earth dist.	1775 Nov 19 03:29	27° \mathbb{M} 53'52	0.67739 AU
morning rise	1774 Dec 10 13:03	7° \mathbb{J} 10'59		inferior conj	1775 Nov 19 15:45	27° \mathbb{M} 12'03	0°38'35
direct	1774 Dec 15 05:18	5° \mathbb{J} 14'23		minimum elong	1775 Nov 19 14:50	27° \mathbb{M} 15'08	0°38'12
morning max el	1774 Dec 24 15:53	10° \mathbb{J} 48'25	22°17'51	morning rise	1775 Nov 24 23:23	21° \mathbb{M} 05'19	
desc. node	1775 Jan 08 08:19	29° \mathbb{J} 25'20		direct	1775 Nov 29 01:29	19° \mathbb{M} 31'28	
	1775 Jan 08 18:02	0° \mathbb{B}		morning max el	1775 Dec 07 09:11	24° \mathbb{M} 20'59	20°56'57
morning set	1775 Jan 27 01:16	27° \mathbb{B} 56'26			1775 Dec 12 07:33	0° \mathbb{J}	
				desc. node	1775 Dec 26 05:22	19° \mathbb{J} 30'30	

	1776 Jan 02 03:54	0°♁		morning max el	1776 Nov 19 10:16	8°♁04'25	19°48'00
morning set	1776 Jan 06 07:58	6°♁27'28		greatest brilliancy	1776 Dec 02 22:24	25°♁58'49	-0.7m
max. Earth dist.	1776 Jan 14 13:53	19°♁36'11	1.42736 AU		1776 Dec 05 14:50	0°♁	
	1776 Jan 20 20:25	0°♁		desc. node	1776 Dec 12 02:23	9°♁52'27	
				morning set	1776 Dec 15 04:04	14°♁36'15	
superior conj	1776 Jan 21 13:14	1°♁11'07	-2°03'45		1776 Dec 25 00:43	0°♁	
minimum elong	1776 Jan 21 11:31	1°♁03'48	2°03'44	max. Earth dist.	1776 Dec 27 00:57	3°♁11'11	1.44190 AU
evening rise	1776 Feb 02 06:06	21°♁39'22					
	1776 Feb 06 22:30	0°♁		superior conj	1776 Dec 31 18:56	10°♁48'11	-1°48'58
asc. node	1776 Feb 13 17:53	11°♁19'50		minimum elong	1776 Dec 31 11:53	10°♁19'41	1°48'28
evening max el	1776 Feb 19 03:16	18°♁12'23	18°07'19		1777 Jan 12 09:04	0°♁	
retrograde	1776 Feb 25 17:46	21°♁36'34		evening rise	1777 Jan 14 07:04	3°♁15'03	
evening set	1776 Feb 28 10:56	21°♁01'55		asc. node	1777 Jan 30 14:55	29°♁12'03	
inferior conj	1776 Mar 05 23:16	16°♁00'40	3°37'07		1777 Jan 31 06:59	0°♁	
minimum elong	1776 Mar 06 00:50	15°♁56'50	3°36'59	evening max el	1777 Feb 01 15:49	1°♁29'04	18°15'42
min. Earth dist.	1776 Mar 09 01:21	12°♁59'28	0.61459 AU	retrograde	1777 Feb 08 02:58	4°♁57'06	
morning rise	1776 Mar 12 13:09	10°♁06'29		evening set	1777 Feb 11 01:12	4°♁11'53	
direct	1776 Mar 19 09:24	7°♁44'10			1777 Feb 16 01:28	30°♁	
desc. node	1776 Mar 23 04:30	8°♁24'12		inferior conj	1777 Feb 17 02:40	28°♁51'06	3°44'06
morning max el	1776 Apr 02 13:32	15°♁38'15	27°47'08	minimum elong	1777 Feb 17 02:18	28°♁52'08	3°44'05
	1776 Apr 14 07:11	0°♁		min. Earth dist.	1777 Feb 19 14:51	26°♁05'08	0.63438 AU
	1776 May 02 01:04	0°♁		morning rise	1777 Feb 23 02:32	22°♁46'59	
morning set	1776 May 05 11:52	6°♁54'21		direct	1777 Mar 02 01:08	20°♁02'21	
max. Earth dist.	1776 May 11 10:33	19°♁29'39	1.32391 AU	desc. node	1777 Mar 10 01:32	23°♁00'38	
asc. node	1776 May 11 17:13	20°♁05'52		morning max el	1777 Mar 15 21:07	27°♁57'42	27°42'02
					1777 Mar 17 20:06	0°♁	
superior conj	1776 May 12 20:18	22°♁33'29	0°11'55		1777 Apr 08 00:55	0°♁	
minimum elong	1776 May 12 19:45	22°♁30'29	0°11'48	morning set	1777 Apr 19 10:01	21°♁01'55	
behind sun begin	1776 May 12 16:19	22°♁11'44			1777 Apr 23 19:05	0°♁	
behind sun end	1776 May 12 23:11	22°♁49'14		max. Earth dist.	1777 Apr 24 15:30	1°♁47'24	1.32993 AU
	1776 May 16 05:58	0°♁					
evening rise	1776 May 19 17:51	7°♁32'11		superior conj	1777 Apr 27 03:57	7°♁09'36	-0°15'01
	1776 May 31 11:27	0°♁		minimum elong	1777 Apr 27 04:41	7°♁13'32	0°14'52
evening max el	1776 Jun 14 13:20	18°♁39'41	24°46'31	behind sun begin	1777 Apr 27 02:46	7°♁03'17	
desc. node	1776 Jun 19 03:46	22°♁27'06		behind sun end	1777 Apr 27 06:35	7°♁23'47	
retrograde	1776 Jun 28 12:07	25°♁43'59		asc. node	1777 Apr 28 14:13	10°♁14'15	
evening set	1776 Jul 03 15:20	24°♁44'10		evening rise	1777 May 04 05:37	22°♁21'41	
min. Earth dist.	1776 Jul 09 00:34	21°♁54'28	0.57169 AU		1777 May 07 22:29	0°♁	
inferior conj	1776 Jul 11 22:22	20°♁00'18	-4°51'48	evening max el	1777 May 27 03:06	29°♁10'09	23°11'31
minimum elong	1776 Jul 11 19:44	20°♁04'38	4°51'36		1777 May 28 00:20	0°♁	
morning rise	1776 Jul 20 02:52	15°♁53'09		desc. node	1777 Jun 06 00:46	5°♁24'47	
direct	1776 Jul 22 17:27	15°♁33'57		retrograde	1777 Jun 09 14:54	5°♁54'08	
morning max el	1776 Jul 31 20:41	19°♁49'34	19°17'28	evening set	1777 Jun 13 06:01	5°♁25'13	
asc. node	1776 Aug 07 16:28	28°♁23'04		min. Earth dist.	1777 Jun 20 12:44	2°♁08'00	0.55669 AU
	1776 Aug 08 16:57	0°♁		inferior conj	1777 Jun 22 07:53	1°♁04'50	-4°07'30
morning set	1776 Aug 17 22:44	17°♁06'58		minimum elong	1777 Jun 22 00:40	1°♁15'26	4°05'59
	1776 Aug 24 09:50	0°♁			1777 Jun 24 04:47	30°♁	
				morning rise	1777 Jun 30 21:53	27°♁11'08	
superior conj	1776 Aug 26 02:39	3°♁19'56	1°44'32	direct	1777 Jul 03 17:00	26°♁52'19	
minimum elong	1776 Aug 26 03:44	3°♁25'13	1°44'30		1777 Jul 12 05:16	0°♁	
max. Earth dist.	1776 Sep 01 12:33	15°♁26'46	1.38155 AU	morning max el	1777 Jul 14 09:59	1°♁49'48	20°27'56
evening rise	1776 Sep 05 07:08	22°♁12'18		asc. node	1777 Jul 25 13:29	17°♁02'22	
	1776 Sep 09 20:28	0°♁			1777 Aug 01 08:00	0°♁	
desc. node	1776 Sep 15 03:08	8°♁33'42		morning set	1777 Aug 02 04:22	1°♁43'46	
	1776 Sep 29 21:30	0°♁					
evening max el	1776 Oct 10 23:42	13°♁01'09	24°57'11	superior conj	1777 Aug 09 18:52	17°♁22'13	1°45'17
retrograde	1776 Oct 22 17:06	19°♁49'43		minimum elong	1777 Aug 09 18:17	17°♁19'13	1°45'16
evening set	1776 Oct 28 09:24	17°♁26'32		max. Earth dist.	1777 Aug 14 18:45	27°♁17'13	1.36248 AU
min. Earth dist.	1776 Nov 01 22:20	12°♁19'07	0.67339 AU		1777 Aug 16 04:40	0°♁	
inferior conj	1776 Nov 02 21:12	11°♁03'48	-0°15'54	evening rise	1777 Aug 18 18:28	4°♁49'38	
minimum elong	1776 Nov 02 21:36	11°♁02'29	0°15'44	desc. node	1777 Sep 02 00:08	28°♁52'54	
transit middle	1776 Nov 02 21:36	11°♁02'29	0°15'44		1777 Sep 02 17:38	0°♁	
transit begin	1776 Nov 02 20:55	11°♁04'43		evening max el	1777 Sep 23 11:36	26°♁40'33	26°05'35
transit end	1776 Nov 02 22:17	11°♁00'16			1777 Sep 27 06:27	0°♁	
asc. node	1776 Nov 03 15:38	10°♁03'26		retrograde	1777 Oct 06 01:21	3°♁48'37	
morning rise	1776 Nov 08 09:57	5°♁03'33		evening set	1777 Oct 12 07:40	1°♁12'26	
direct	1776 Nov 11 23:32	3°♁50'15			1777 Oct 13 14:58	30°♁	

min. Earth dist.	1777 Oct 16 13:06	26°  40'42	0.66601 AU	minimum elong	1778 Oct 01 22:53	8°  30'14	2°10'00
inferior conj	1777 Oct 17 23:07	24°  54'46	-1°13'08	morning rise	1778 Oct 07 23:38	3°  01'34	
minimum elong	1777 Oct 18 01:02	24°  48'47	1°12'18	asc. node	1778 Oct 08 09:45	2°  49'41	
asc. node	1777 Oct 21 12:41	20°  50'18		direct	1778 Oct 10 18:48	2°  18'38	
morning rise	1777 Oct 23 18:48	19°  03'43		morning max el	1778 Oct 17 07:58	5°  51'52	18°16'12
direct	1777 Oct 26 21:59	18°  07'31			1778 Nov 02 18:50	0° 	
morning max el	1777 Nov 02 18:33	21°  56'29	18°53'57	morning set	1778 Nov 05 05:55	4°  01'17	
	1777 Nov 09 05:50	0° 		desc. node	1778 Nov 15 20:27	21°  08'33	
morning set	1777 Nov 24 14:52	23°  35'54					
desc. node	1777 Nov 28 23:25	0°  26'39		superior conj	1778 Nov 20 04:23	28°  00'35	-0°28'42
	1777 Nov 28 16:38	0° 		minimum elong	1778 Nov 20 00:40	27°  04'55	0°28'12
max. Earth dist.	1777 Dec 09 17:20	17°  18'43	1.45002 AU		1778 Nov 21 10:40	0° 	
				max. Earth dist.	1778 Nov 22 12:30	1°  41'38	1.45082 AU
superior conj	1777 Dec 11 02:30	19°  29'11	-1°15'21	evening rise	1778 Dec 06 12:54	23°  27'05	
minimum elong	1777 Dec 10 17:59	18°  55'39	1°14'23		1778 Dec 10 15:04	0° 	
	1777 Dec 17 17:57	0° 		greatest brilliancy	1778 Dec 18 02:58	11°  35'52	-0.7m
evening rise	1777 Dec 26 09:31	13°  53'34		evening max el	1778 Dec 30 11:30	28°  22'49	19°26'00
	1778 Jan 05 08:55	0° 			1779 Jan 01 04:42	0° 	
evening max el	1778 Jan 16 03:19	14°  54'08	18°42'22	asc. node	1779 Jan 04 09:00	2°  02'26	
asc. node	1778 Jan 17 11:57	16°  11'07		retrograde	1779 Jan 06 15:56	2°  31'06	
retrograde	1778 Jan 22 19:28	18°  37'23		evening set	1779 Jan 10 02:52	1°  21'15	
evening set	1778 Jan 25 23:25	17°  40'29			1779 Jan 11 18:35	30°  R 	
inferior conj	1778 Jan 31 17:13	12°  01'57	3°33'32	inferior conj	1779 Jan 15 15:35	25°  27'07	3°10'01
minimum elong	1778 Jan 31 15:28	12°  07'16	3°33'19	minimum elong	1779 Jan 15 13:05	25°  35'12	3°09'29
min. Earth dist.	1778 Feb 02 13:53	9°  46'38	0.65096 AU	min. Earth dist.	1779 Jan 16 21:22	23°  50'27	0.66356 AU
morning rise	1778 Feb 06 07:05	5°  52'29		morning rise	1779 Jan 20 23:04	19°  31'45	
direct	1778 Feb 13 00:05	3°  00'22		direct	1779 Jan 27 04:59	16°  28'48	
desc. node	1778 Feb 24 22:35	9°  28'08		morning max el	1779 Feb 08 16:03	23°  52'17	25°58'04
morning max el	1778 Feb 26 06:42	10°  46'20	27°03'09	desc. node	1779 Feb 11 19:38	27°  15'05	
	1778 Mar 13 12:31	0° 			1779 Feb 14 03:54	0° 	
	1778 Mar 31 12:18	0° 			1779 Mar 06 21:47	0° 	
morning set	1778 Apr 02 22:36	4°  36'56		morning set	1779 Mar 16 21:31	17°  27'10	
max. Earth dist.	1778 Apr 07 10:56	13°  33'13	1.34041 AU	max. Earth dist.	1779 Mar 20 18:52	24°  47'55	1.35544 AU
					1779 Mar 23 10:44	0° 	
superior conj	1778 Apr 11 06:38	21°  36'20	-0°42'50				
minimum elong	1778 Apr 11 08:48	21°  37'37	0°42'25	superior conj	1779 Mar 26 01:55	5°  36'21	-1°10'10
asc. node	1778 Apr 15 11:15	0°  17'42		minimum elong	1779 Mar 26 05:22	5°  33'52	1°09'35
	1778 Apr 15 07:55	0° 		asc. node	1779 Apr 02 08:19	20°  11'58	
evening rise	1778 Apr 18 16:01	7°  02'14		evening rise	1779 Apr 02 23:03	21°  07'29	
	1778 May 01 01:45	0° 			1779 Apr 07 05:37	0° 	
evening max el	1778 May 08 21:59	9°  47'52	21°38'07	evening max el	1779 Apr 21 03:23	20°  57'02	20°17'36
retrograde	1778 May 21 06:22	15°  50'51		retrograde	1779 May 01 19:58	26°  07'30	
evening set	1778 May 23 17:57	15°  36'57		evening set	1779 May 03 21:09	25°  56'54	
desc. node	1778 May 23 21:48	15°  35'07		desc. node	1779 May 10 18:49	23°  51'12	
inferior conj	1778 Jun 02 03:51	11°  35'26	-2°36'22	inferior conj	1779 May 12 23:17	21°  58'39	-0°38'12
minimum elong	1778 Jun 01 20:57	11°  45'05	2°34'09	minimum elong	1779 May 12 21:29	22°  01'17	0°37'32
min. Earth dist.	1778 Jun 02 00:47	11°  39'43	0.54950 AU	min. Earth dist.	1779 May 14 13:45	21°  02'09	0.55180 AU
morning rise	1778 Jun 11 00:51	7°  39'32		morning rise	1779 May 21 20:25	17°  41'46	
direct	1778 Jun 14 04:32	7°  17'43		direct	1779 May 25 16:27	17°  09'54	
morning max el	1778 Jun 26 11:56	13°  06'03	21°57'01	morning max el	1779 Jun 08 05:21	23°  47'02	23°37'42
	1778 Jul 09 00:46	0° 			1779 Jun 13 20:06	0° 	
asc. node	1778 Jul 12 10:31	6°  13'38		asc. node	1779 Jun 29 07:35	25°  48'47	
morning set	1778 Jul 17 13:51	16°  32'42			1779 Jul 01 08:26	0° 	
	1778 Jul 23 22:43	0° 		morning set	1779 Jul 02 01:23	1°  28'46	
superior conj	1778 Jul 24 19:45	1°  50'39	1°39'02	superior conj	1779 Jul 09 02:27	16°  36'45	1°27'06
minimum elong	1778 Jul 24 18:00	1°  41'32	1°38'54	minimum elong	1779 Jul 09 00:07	16°  24'15	1°26'49
max. Earth dist.	1778 Jul 28 09:05	9°  12'33	1.34663 AU	max. Earth dist.	1779 Jul 11 08:58	21°  28'16	1.33468 AU
evening rise	1778 Aug 01 22:25	18°  15'27			1779 Jul 15 11:21	0° 	
	1778 Aug 08 06:47	0° 		evening rise	1779 Jul 16 14:41	2°  17'52	
desc. node	1778 Aug 19 21:09	18°  05'12			1779 Aug 01 03:23	0° 	
	1778 Aug 27 22:21	0° 		desc. node	1779 Aug 06 18:11	8°  20'25	
evening max el	1778 Sep 05 23:57	10°  14'59	26°56'47	evening max el	1779 Aug 19 11:34	23°  03'10	27°23'26
retrograde	1778 Sep 19 04:07	17°  31'37			1779 Aug 28 18:24	0° 	
evening set	1778 Sep 25 22:49	14°  48'19		retrograde	1779 Sep 02 00:53	0°  51'06	
min. Earth dist.	1778 Sep 29 21:21	10°  53'11	0.65519 AU		1779 Sep 06 01:48	30°  R 	
inferior conj	1778 Oct 01 19:23	8°  40'18	-2°11'22	evening set	1779 Sep 09 04:06	28°  09'43	

min. Earth dist.	1779 Sep 12 20:49	24° \mathbb{M} 49'26	0.64086 AU	min. Earth dist.	1780 Aug 25 09:57	8° \mathbb{M} 17'51	0.62316 AU
inferior conj	1779 Sep 15 07:36	22° \mathbb{M} 15'24	-3°08'06	inferior conj	1780 Aug 28 08:48	5° \mathbb{M} 32'31	-3°59'29
minimum elong	1779 Sep 15 12:24	22° \mathbb{M} 02'48	3°06'32	minimum elong	1780 Aug 28 14:05	5° \mathbb{M} 20'08	3°58'12
morning rise	1779 Sep 21 21:45	16° \mathbb{M} 52'28		morning rise	1780 Sep 04 09:45	0° \mathbb{M} 28'49	
direct	1779 Sep 24 11:24	16° \mathbb{M} 19'17		direct	1780 Sep 06 20:25	0° \mathbb{M} 02'20	
asc. node	1779 Sep 25 06:48	16° \mathbb{M} 22'37		asc. node	1780 Sep 11 03:51	1° \mathbb{M} 27'04	
morning max el	1779 Sep 30 23:57	19° \mathbb{M} 45'12	17°55'35	morning max el	1780 Sep 13 15:31	3° \mathbb{M} 29'24	17°52'59
	1779 Oct 08 14:54	0° \mathbb{L}		morning set	1780 Sep 29 16:38	28° \mathbb{M} 34'03	
morning set	1779 Oct 18 00:31	15° \mathbb{L} 46'57			1780 Sep 30 11:46	0° \mathbb{L}	
	1779 Oct 26 10:26	0° \mathbb{M}		superior conj	1780 Oct 10 17:38	18° \mathbb{L} 00'20	0°57'59
superior conj	1779 Oct 30 21:47	7° \mathbb{M} 21'09	0°18'59	minimum elong	1780 Oct 10 22:11	18° \mathbb{L} 19'43	0°57'25
minimum elong	1779 Oct 30 23:53	7° \mathbb{M} 29'43	0°18'41		1780 Oct 17 22:28	0° \mathbb{M}	
desc. node	1779 Nov 02 17:31	11° \mathbb{M} 54'54		max. Earth dist.	1780 Oct 17 21:30	29° \mathbb{L} 56'05	1.43125 AU
max. Earth dist.	1779 Nov 05 06:59	16° \mathbb{M} 00'35	1.44429 AU	desc. node	1780 Oct 19 14:33	2° \mathbb{M} 42'16	
	1779 Nov 14 05:17	0° \mathbb{X}		evening rise	1780 Oct 25 09:42	11° \mathbb{M} 53'43	
evening rise	1779 Nov 15 23:59	2° \mathbb{X} 44'43			1780 Nov 06 08:17	0° \mathbb{X}	
	1779 Dec 04 05:27	0° \mathbb{Z}		evening max el	1780 Nov 25 12:09	25° \mathbb{X} 23'06	21°35'12
evening max el	1779 Dec 13 14:42	11° \mathbb{Z} 52'39	20°24'36		1780 Dec 01 11:20	0° \mathbb{Z}	
retrograde	1779 Dec 21 13:51	16° \mathbb{Z} 34'07		retrograde	1780 Dec 04 11:06	0° \mathbb{Z} 42'54	
asc. node	1779 Dec 22 06:04	16° \mathbb{Z} 31'33			1780 Dec 07 06:21	30° \mathbb{R} \mathbb{X}	
evening set	1779 Dec 25 09:23	15° \mathbb{Z} 09'52		asc. node	1780 Dec 08 03:05	29° \mathbb{X} 28'46	
inferior conj	1779 Dec 30 19:05	9° \mathbb{Z} 02'55	2°36'38	evening set	1780 Dec 08 17:05	29° \mathbb{X} 02'54	
minimum elong	1779 Dec 30 16:27	9° \mathbb{Z} 11'52	2°35'51	inferior conj	1780 Dec 14 01:32	22° \mathbb{X} 46'33	1°55'32
min. Earth dist.	1779 Dec 31 11:33	8° \mathbb{Z} 07'06	0.67210 AU	minimum elong	1780 Dec 13 23:14	22° \mathbb{X} 54'27	1°54'42
morning rise	1780 Jan 04 23:21	2° \mathbb{Z} 49'43		min. Earth dist.	1780 Dec 14 06:11	22° \mathbb{X} 30'26	0.67681 AU
direct	1780 Jan 10 15:08	0° \mathbb{Z} 19'15		morning rise	1780 Dec 19 05:15	16° \mathbb{X} 34'04	
morning max el	1780 Jan 22 00:36	7° \mathbb{Z} 06'57	24°36'19	direct	1780 Dec 24 05:56	14° \mathbb{X} 24'33	
desc. node	1780 Jan 29 16:42	15° \mathbb{Z} 58'41		morning max el	1781 Jan 03 09:56	20° \mathbb{X} 26'57	23°08'01
	1780 Feb 08 20:53	0° \approx			1781 Jan 11 13:20	0° \mathbb{Z}	
morning set	1780 Feb 27 01:22	29° \approx 17'23		desc. node	1781 Jan 15 13:46	5° \mathbb{Z} 22'43	
	1780 Feb 27 11:02	0° \mathbb{H}			1781 Feb 01 02:37	0° \approx	
max. Earth dist.	1780 Mar 01 17:13	5° \mathbb{H} 50'51	1.37449 AU	morning set	1781 Feb 07 03:56	9° \approx 51'53	
				max. Earth dist.	1781 Feb 11 12:19	17° \approx 15'26	1.39578 AU
superior conj	1780 Mar 08 10:31	18° \mathbb{H} 30'22	-1°34'58		1781 Feb 18 15:43	0° \mathbb{H}	
minimum elong	1780 Mar 08 14:45	18° \mathbb{H} 50'50	1°34'26	superior conj	1781 Feb 19 04:22	0° \mathbb{H} 58'15	-1°54'20
	1780 Mar 14 06:13	0° \mathbb{Y}		minimum elong	1781 Feb 19 08:05	1° \mathbb{H} 15'21	1°54'03
evening rise	1780 Mar 17 00:22	5° \mathbb{Y} 30'07		evening rise	1781 Feb 28 17:06	19° \mathbb{H} 02'45	
asc. node	1780 Mar 19 05:22	9° \mathbb{Y} 51'49		asc. node	1781 Mar 06 02:25	29° \mathbb{H} 11'51	
	1780 Mar 31 07:53	0° \mathbb{B}			1781 Mar 06 13:02	0° \mathbb{Y}	
evening max el	1780 Apr 02 20:16	2° \mathbb{B} 45'07	19°15'25	evening max el	1781 Mar 16 22:44	15° \mathbb{Y} 09'25	18°33'17
retrograde	1780 Apr 11 20:43	7° \mathbb{B} 06'53		retrograde	1781 Mar 24 15:35	18° \mathbb{Y} 55'59	
evening set	1780 Apr 13 23:26	6° \mathbb{B} 53'32		evening set	1781 Mar 26 24:00	18° \mathbb{Y} 36'03	
inferior conj	1780 Apr 22 07:55	2° \mathbb{B} 43'53	1°13'07	inferior conj	1781 Apr 03 13:06	14° \mathbb{Y} 07'55	2°34'43
minimum elong	1780 Apr 22 10:45	2° \mathbb{B} 39'08	1°12'10	minimum elong	1781 Apr 03 17:08	14° \mathbb{Y} 00'02	2°33'41
min. Earth dist.	1780 Apr 25 04:38	0° \mathbb{B} 49'36	0.56316 AU	min. Earth dist.	1781 Apr 06 23:03	11° \mathbb{Y} 28'59	0.58118 AU
desc. node	1780 Apr 26 15:51	29° \mathbb{Y} 54'49		morning rise	1781 Apr 11 07:15	8° \mathbb{Y} 45'08	
	1780 Apr 26 12:24	30° \mathbb{R} \mathbb{Y}		desc. node	1781 Apr 13 12:53	7° \mathbb{Y} 51'24	
morning rise	1780 Apr 30 19:07	27° \mathbb{Y} 53'17		direct	1781 Apr 17 03:58	7° \mathbb{Y} 17'39	
direct	1780 May 05 14:59	26° \mathbb{Y} 59'34		morning max el	1781 May 01 13:08	14° \mathbb{Y} 56'03	26°40'05
	1780 May 14 13:57	0° \mathbb{B}			1781 May 13 15:56	0° \mathbb{B}	
morning max el	1780 May 19 19:51	4° \mathbb{B} 14'21	25°17'18		1781 May 30 09:00	0° \mathbb{H}	
	1780 Jun 07 05:16	0° \mathbb{H}		morning set	1781 May 30 23:41	1° \mathbb{H} 16'45	
asc. node	1780 Jun 15 04:38	15° \mathbb{H} 40'14		asc. node	1781 Jun 02 01:41	5° \mathbb{H} 42'32	
morning set	1780 Jun 15 13:12	16° \mathbb{H} 25'18					
	1780 Jun 21 19:46	0° \mathbb{E}		superior conj	1781 Jun 07 00:15	16° \mathbb{H} 29'51	0°50'07
superior conj	1780 Jun 22 12:35	1° \mathbb{E} 31'58	1°10'31	minimum elong	1781 Jun 06 22:17	16° \mathbb{H} 18'58	0°49'45
minimum elong	1780 Jun 22 10:12	1° \mathbb{E} 18'57	1°10'08	max. Earth dist.	1781 Jun 07 03:42	16° \mathbb{H} 48'47	1.32257 AU
max. Earth dist.	1780 Jun 23 16:14	4° \mathbb{E} 02'53	1.32668 AU		1781 Jun 13 05:30	0° \mathbb{E}	
evening rise	1780 Jun 29 15:32	16° \mathbb{E} 44'58		evening rise	1781 Jun 13 22:13	1° \mathbb{E} 28'04	
	1780 Jul 06 09:50	0° \mathbb{L}			1781 Jun 29 10:26	0° \mathbb{L}	
desc. node	1780 Jul 23 15:11	27° \mathbb{L} 06'51		desc. node	1781 Jul 10 12:11	14° \mathbb{L} 53'05	
	1780 Jul 25 22:52	0° \mathbb{M}		evening max el	1781 Jul 13 23:07	18° \mathbb{L} 27'23	26°43'23
evening max el	1780 Jul 31 20:05	6° \mathbb{M} 20'59	27°19'55	retrograde	1781 Jul 27 22:14	25° \mathbb{L} 41'00	
retrograde	1780 Aug 14 15:15	13° \mathbb{M} 37'15		evening set	1781 Aug 03 17:44	23° \mathbb{L} 41'31	
evening set	1780 Aug 21 19:55	11° \mathbb{M} 09'55		min. Earth dist.	1781 Aug 07 12:53	21° \mathbb{L} 04'12	0.60306 AU

































































































































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minimum elong	1781 Aug 10 23:40	18°♎14'52	4°38'35	min. Earth dist.	1782 Jul 20 07:30	2°♎55'02	0.58254 AU
morning rise	1781 Aug 18 07:33	13°♎41'21		inferior conj	1782 Jul 23 12:29	0°♎38'30	-4°56'54
direct	1781 Aug 20 17:51	13°♎19'05		minimum elong	1782 Jul 23 12:53	0°♎37'46	4°56'53
morning max el	1781 Aug 28 03:34	16°♎56'28	18°09'30		1782 Jul 24 10:12	30°♎	
asc. node	1781 Aug 29 00:54	17°♎50'41		morning rise	1782 Jul 31 11:03	26°♎19'02	
	1781 Sep 06 09:47	0°♎		direct	1782 Aug 02 23:32	25°♎59'04	
morning set	1781 Sep 13 00:24	12°♎06'01			1782 Aug 11 09:59	0°♎	
				morning max el	1782 Aug 11 08:55	29°♎57'27	18°46'28
superior conj	1781 Sep 22 15:18	29°♎55'21	1°24'55	asc. node	1782 Aug 15 21:57	5°♎18'24	
minimum elong	1781 Sep 22 19:18	0°♎13'19	1°24'32	morning set	1782 Aug 27 19:18	26°♎11'06	
	1781 Sep 22 16:20	0°♎			1782 Aug 29 18:04	0°♎	
max. Earth dist.	1781 Sep 30 06:22	13°♎13'10	1.41349 AU				
evening rise	1781 Oct 05 10:26	21°♎45'51		superior conj	1782 Sep 05 09:43	12°♎52'20	1°40'16
desc. node	1781 Oct 06 11:32	23°♎27'05		minimum elong	1782 Sep 05 11:55	13°♎02'46	1°40'08
	1781 Oct 10 14:55	0°♎		max. Earth dist.	1782 Sep 12 11:00	25°♎48'36	1.39332 AU
	1781 Oct 31 12:23	0°♎			1782 Sep 14 20:26	0°♎	
evening max el	1781 Nov 08 04:31	8°♎55'07	22°53'24	evening rise	1782 Sep 16 10:49	2°♎44'34	
retrograde	1781 Nov 18 06:01	14°♎53'36		desc. node	1782 Sep 23 08:32	14°♎06'08	
evening set	1781 Nov 23 00:15	12°♎56'49			1782 Oct 03 20:35	0°♎	
asc. node	1781 Nov 25 00:08	10°♎57'48		evening max el	1782 Oct 21 17:44	22°♎31'30	24°13'15
inferior conj	1781 Nov 28 08:57	6°♎34'50	1°08'09	retrograde	1782 Nov 01 21:19	29°♎03'40	
minimum elong	1781 Nov 28 07:26	6°♎40'04	1°07'32	evening set	1782 Nov 07 05:20	26°♎49'57	
min. Earth dist.	1781 Nov 28 02:48	6°♎56'05	0.67807 AU	asc. node	1782 Nov 11 21:10	21°♎28'45	
morning rise	1781 Dec 03 14:31	0°♎25'09		min. Earth dist.	1782 Nov 11 23:01	21°♎22'32	0.67608 AU
	1781 Dec 04 03:40	30°♎		inferior conj	1782 Nov 12 15:39	20°♎26'27	0°15'54
direct	1781 Dec 08 00:32	28°♎38'21		minimum elong	1782 Nov 12 15:16	20°♎27'46	0°15'45
	1781 Dec 12 06:08	0°♎		transit middle	1782 Nov 12 15:16	20°♎27'46	0°15'45
morning max el	1781 Dec 16 23:16	3°♎53'16	21°42'15	transit begin	1782 Nov 12 14:35	20°♎30'04	
desc. node	1782 Jan 02 10:47	25°♎15'06		transit end	1782 Nov 12 15:57	20°♎25'28	
	1782 Jan 05 16:21	0°♎		morning rise	1782 Nov 18 01:12	14°♎21'57	
morning set	1782 Jan 18 01:10	19°♎01'45		direct	1782 Nov 21 21:49	12°♎56'59	
max. Earth dist.	1782 Jan 24 11:16	29°♎27'52	1.41666 AU	morning max el	1782 Nov 29 19:40	17°♎30'10	20°25'54
	1782 Jan 24 19:00	0°♎			1782 Dec 09 18:55	0°♎	
				desc. node	1782 Dec 20 07:49	15°♎28'18	
superior conj	1782 Feb 01 02:17	12°♎26'54	-2°04'15	morning set	1782 Dec 28 00:15	27°♎13'45	
minimum elong	1782 Feb 01 03:16	12°♎31'13	2°04'14		1782 Dec 29 19:02	0°♎	
	1782 Feb 10 20:22	0°♎		max. Earth dist.	1783 Jan 06 18:12	12°♎36'44	1.43427 AU
evening rise	1782 Feb 11 21:38	1°♎56'08					
asc. node	1782 Feb 20 23:26	18°♎04'43		superior conj	1783 Jan 12 23:21	22°♎45'54	-1°59'48
evening max el	1782 Feb 28 07:37	28°♎00'55	18°11'13	minimum elong	1783 Jan 12 19:16	22°♎29'01	1°59'38
	1782 Mar 02 17:31	0°♎			1783 Jan 17 06:50	0°♎	
retrograde	1782 Mar 07 04:25	1°♎28'34		evening rise	1783 Jan 25 09:52	14°♎02'18	
evening set	1782 Mar 09 18:38	0°♎59'39			1783 Feb 03 16:26	0°♎	
	1782 Mar 11 19:23	30°♎		asc. node	1783 Feb 07 20:27	6°♎22'09	
inferior conj	1782 Mar 16 14:57	26°♎10'39	3°22'39	evening max el	1783 Feb 11 19:42	11°♎10'53	18°08'39
minimum elong	1782 Mar 16 17:40	26°♎04'27	3°22'14	retrograde	1783 Feb 18 07:28	14°♎34'48	
min. Earth dist.	1782 Mar 19 22:56	23°♎10'14	0.60237 AU	evening set	1783 Feb 21 02:54	13°♎55'37	
morning rise	1782 Mar 23 14:34	20°♎25'27		inferior conj	1783 Feb 27 10:11	8°♎45'55	3°42'32
direct	1782 Mar 30 05:21	18°♎21'03		minimum elong	1783 Feb 27 10:53	8°♎44'07	3°42'31
desc. node	1782 Mar 31 09:56	18°♎24'57		min. Earth dist.	1783 Mar 02 06:47	5°♎48'59	0.62337 AU
morning max el	1782 Apr 13 12:08	26°♎11'34	27°33'01	morning rise	1783 Mar 05 17:40	2°♎47'08	
	1782 Apr 17 01:46	0°♎		direct	1783 Mar 12 16:12	0°♎13'36	
	1782 May 07 02:54	0°♎		desc. node	1783 Mar 18 06:58	1°♎41'24	
morning set	1782 May 15 07:04	15°♎56'53		morning max el	1783 Mar 26 17:00	8°♎08'28	27°49'24
asc. node	1782 May 19 22:44	25°♎50'45			1783 Apr 12 11:58	0°♎	
max. Earth dist.	1782 May 21 15:42	29°♎34'17	1.32229 AU	morning set	1783 Apr 29 09:19	0°♎18'47	
	1782 May 21 20:23	0°♎			1783 Apr 29 05:36	0°♎	
				max. Earth dist.	1783 May 05 00:30	12°♎06'46	1.32598 AU
superior conj	1782 May 22 11:45	1°♎24'16	0°26'36	superior conj	1783 May 06 21:20	16°♎09'03	0°00'42
minimum elong	1782 May 22 10:34	1°♎17'50	0°26'21	minimum elong	1783 May 06 21:18	16°♎08'53	0°00'41
evening rise	1782 May 29 08:26	16°♎19'27		behind sun begin	1783 May 06 16:08	15°♎40'53	
	1782 Jun 05 03:39	0°♎		behind sun end	1783 May 07 02:27	16°♎36'55	
evening max el	1782 Jun 25 19:16	29°♎48'05	25°36'02	asc. node	1783 May 06 19:45	16°♎00'26	
	1782 Jun 26 00:17	0°♎			1783 May 13 06:39	0°♎	
desc. node	1782 Jun 27 09:11	1°♎14'29		evening rise	1783 May 13 20:12	1°♎12'02	
retrograde	1782 Jul 09 19:49	6°♎57'03					

	1783 May 29 17:09	0°☿			1784 May 04 08:17	0°♄	
evening max el	1783 Jun 07 09:54	10°☿30'30	24°06'54	evening max el	1784 May 19 00:54	21°♄00'28	22°30'47
desc. node	1783 Jun 14 06:12	15°☿37'38		desc. node	1784 May 31 03:13	27°♄27'19	
retrograde	1783 Jun 21 05:24	17°☿27'36		retrograde	1784 Jun 01 02:46	27°♄29'31	
evening set	1783 Jun 25 17:24	16°☿42'44		evening set	1784 Jun 04 04:38	27°♄08'39	
min. Earth dist.	1783 Jul 01 20:43	13°☿42'58	0.56459 AU	min. Earth dist.	1784 Jun 12 08:17	23°♄36'24	0.55258 AU
inferior conj	1783 Jul 04 09:09	12°☿09'18	-4°38'56	inferior conj	1784 Jun 13 11:44	22°♄57'26	-3°34'03
minimum elong	1783 Jul 04 04:15	12°☿16'57	4°38'18	minimum elong	1784 Jun 13 03:53	23°♄08'35	3°31'58
morning rise	1783 Jul 12 17:46	8°☿09'05		morning rise	1784 Jun 22 05:17	19°♄05'33	
direct	1783 Jul 15 10:17	7°☿50'06		direct	1784 Jun 25 03:28	18°♄46'01	
morning max el	1783 Jul 25 04:34	12°☿21'56	19°44'51	morning max el	1784 Jul 06 12:58	24°♄03'45	21°03'48
asc. node	1783 Aug 02 19:00	23°☿35'11			1784 Jul 11 19:22	0°☿	
	1783 Aug 06 10:45	0°♁		asc. node	1784 Jul 19 16:03	12°☿29'34	
morning set	1783 Aug 11 21:50	10°♁38'55		morning set	1784 Jul 26 05:24	25°☿22'12	
					1784 Jul 28 10:53	0°♁	
superior conj	1783 Aug 19 19:19	26°♁34'54	1°45'48	superior conj	1784 Aug 02 15:41	10°♁50'05	1°43'24
minimum elong	1783 Aug 19 19:39	26°♁36'29	1°45'48	minimum elong	1784 Aug 02 14:33	10°♁44'12	1°43'21
	1783 Aug 21 12:59	0°♂		max. Earth dist.	1784 Aug 07 00:54	19°♁42'16	1.35534 AU
max. Earth dist.	1783 Aug 25 15:27	7°♂51'18	1.37321 AU	evening rise	1784 Aug 11 05:31	27°♁48'18	
evening rise	1783 Aug 29 10:31	14°♂48'41			1784 Aug 12 09:42	0°♂	
	1783 Sep 07 08:31	0°♂		desc. node	1784 Aug 27 02:34	24°♂45'50	
desc. node	1783 Sep 10 05:33	4°♂34'20			1784 Aug 30 15:26	0°♂	
	1783 Sep 28 13:19	0°♂		evening max el	1784 Sep 15 17:45	19°♂49'00	26°29'43
evening max el	1783 Oct 04 05:45	6°♂11'00	25°27'51	retrograde	1784 Sep 28 14:03	27°♂01'42	
retrograde	1783 Oct 16 08:10	13°♂08'18		evening set	1784 Oct 05 02:09	24°♂21'17	
evening set	1783 Oct 22 06:37	10°♂39'08		min. Earth dist.	1784 Oct 09 04:30	20°♂05'25	0.66193 AU
min. Earth dist.	1783 Oct 26 16:21	5°♂46'49	0.67075 AU	inferior conj	1784 Oct 10 19:37	18°♂07'19	-1°37'49
inferior conj	1783 Oct 27 19:50	4°♂18'17	-0°39'55	minimum elong	1784 Oct 10 22:12	17°♂59'29	1°36'45
minimum elong	1783 Oct 27 20:52	4°♂15'00	0°39'28	asc. node	1784 Oct 15 15:16	13°♂06'30	
asc. node	1783 Oct 29 18:12	1°♂53'08		morning rise	1784 Oct 16 18:47	12°♂21'23	
	1783 Oct 31 11:32	30°♂♂		direct	1784 Oct 19 18:17	11°♂31'21	
morning rise	1783 Nov 02 11:20	28°♂21'41		morning max el	1784 Oct 26 10:50	15°♂12'14	18°35'50
direct	1783 Nov 05 20:20	27°♂15'56			1784 Nov 06 08:01	0°♂	
	1783 Nov 11 14:55	0°♂		morning set	1784 Nov 15 22:00	15°♂11'30	
morning max el	1783 Nov 12 23:59	1°♂17'40	19°23'04	desc. node	1784 Nov 23 01:53	26°♂34'03	
greatest brilliancy	1783 Nov 26 18:39	19°♂53'53	-0.7m		1784 Nov 25 06:04	0°♂	
	1783 Dec 03 08:51	0°♂		superior conj	1784 Dec 01 20:46	10°♂24'00	-0°56'28
morning set	1783 Dec 06 23:52	5°♂36'45		minimum elong	1784 Dec 01 13:42	9°♂56'18	0°55'35
desc. node	1783 Dec 07 04:51	5°♂56'07		max. Earth dist.	1784 Dec 02 02:34	10°♂46'47	1.45126 AU
max. Earth dist.	1783 Dec 20 08:26	26°♂29'53	1.44625 AU		1784 Dec 14 07:20	0°♂	
	1783 Dec 22 13:27	0°♂		evening rise	1784 Dec 17 17:59	5°♂28'15	
superior conj	1783 Dec 23 18:21	1°♂55'03	-1°36'52	greatest brilliancy	1784 Dec 26 07:45	19°♂06'12	-0.8m
minimum elong	1783 Dec 23 09:53	1°♂21'16	1°36'06		1785 Jan 02 11:17	0°♂	
evening rise	1784 Jan 07 01:35	25°♂14'06		evening max el	1785 Jan 08 18:20	7°♂58'05	18°58'57
	1784 Jan 09 22:12	0°♂		asc. node	1785 Jan 11 14:32	10°♂25'18	
asc. node	1784 Jan 25 17:29	23°♂53'27		retrograde	1785 Jan 15 14:59	11°♂51'19	
evening max el	1784 Jan 26 08:07	24°♂31'48	18°24'54	evening set	1785 Jan 18 21:41	10°♂49'06	
retrograde	1784 Feb 01 20:20	28°♂04'58		inferior conj	1785 Jan 24 12:59	5°♂03'23	3°24'58
evening set	1784 Feb 04 20:57	27°♂14'45		minimum elong	1785 Jan 24 10:51	5°♂10'06	3°24'36
inferior conj	1784 Feb 10 18:46	21°♂45'54	3°41'28	min. Earth dist.	1785 Jan 26 03:07	3°♂03'58	0.65672 AU
minimum elong	1784 Feb 10 17:44	21°♂48'53	3°41'24		1785 Jan 28 19:21	30°♂♂	
min. Earth dist.	1784 Feb 13 00:14	19°♂11'53	0.64184 AU	morning rise	1785 Jan 29 23:42	28°♂52'16	
morning rise	1784 Feb 16 13:54	15°♂39'12		direct	1785 Feb 05 12:18	26°♂01'26	
direct	1784 Feb 23 10:52	12°♂49'58			1785 Feb 14 10:41	0°♂	
desc. node	1784 Mar 04 04:02	17°♂09'35		morning max el	1785 Feb 18 11:46	3°♂40'10	26°38'18
morning max el	1784 Mar 08 01:51	20°♂42'10	27°29'26	desc. node	1785 Feb 19 01:05	4°♂14'04	
	1784 Mar 16 02:50	0°♂			1785 Mar 10 11:34	0°♂	
	1784 Apr 04 13:35	0°♂		morning set	1785 Mar 26 11:12	27°♂31'52	
morning set	1784 Apr 12 03:52	14°♂14'18			1785 Mar 27 18:13	0°♂	
max. Earth dist.	1784 Apr 17 02:09	24°♂13'44	1.33384 AU	max. Earth dist.	1785 Mar 30 16:55	5°♂45'48	1.34619 AU
	1784 Apr 19 19:59	0°♂		superior conj	1785 Apr 04 03:00	14°♂44'04	-0°54'36
superior conj	1784 Apr 20 03:10	0°♂38'14	-0°26'45	minimum elong	1785 Apr 04 05:45	14°♂58'15	0°54'04
minimum elong	1784 Apr 20 04:30	0°♂45'19	0°26'29	asc. node	1785 Apr 09 13:50	26°♂07'43	
asc. node	1784 Apr 22 16:48	6°♂07'46			1785 Apr 11 10:20	0°♂	
evening rise	1784 Apr 27 07:40	15°♂59'20					

evening rise	1785 Apr 11 16:52	0°♄33'54		superior conj	1786 Mar 18 18:08	28°♄19'27	-1°21'09
	1785 Apr 29 05:46	0°♄		minimum elong	1786 Mar 18 22:01	28°♄38'47	1°20'34
evening max el	1785 Apr 30 23:39	1°♄48'45	21°01'54		1786 Mar 19 14:17	0°♄	
retrograde	1785 May 12 16:24	7°♄30'41		evening rise	1786 Mar 26 21:44	14°♄49'40	
evening set	1785 May 14 21:18	7°♄19'17		asc. node	1786 Mar 27 10:53	15°♄56'05	
desc. node	1785 May 18 00:16	6°♄27'23			1786 Apr 03 19:56	0°♄	
inferior conj	1785 May 24 05:37	3°♄20'55	-1°47'42	evening max el	1786 Apr 13 10:03	13°♄14'00	19°48'49
minimum elong	1785 May 24 00:34	3°♄28'03	1°45'54	retrograde	1786 Apr 23 09:02	18°♄02'17	
min. Earth dist.	1785 May 24 20:43	2°♄59'32	0.54924 AU	evening set	1786 Apr 25 09:48	17°♄51'10	
	1785 May 30 21:40	30°♄		inferior conj	1786 May 04 05:10	13°♄49'54	0°11'40
morning rise	1785 Jun 02 03:48	29°♄18'13		minimum elong	1786 May 04 05:41	13°♄49'06	0°11'29
direct	1785 Jun 05 12:56	28°♄53'31		transit middle	1786 May 04 05:41	13°♄49'06	0°11'29
	1785 Jun 10 23:15	0°♄		transit begin	1786 May 04 02:56	13°♄53'21	
morning max el	1785 Jun 18 10:56	5°♄03'43	22°39'03	transit end	1786 May 04 08:26	13°♄44'52	
	1785 Jul 05 14:07	0°♄		desc. node	1786 May 04 21:18	13°♄24'56	
asc. node	1785 Jul 06 13:07	1°♄51'46		min. Earth dist.	1786 May 06 10:39	12°♄27'36	0.55559 AU
morning set	1785 Jul 10 15:57	10°♄14'49		morning rise	1786 May 12 23:11	9°♄19'00	
				direct	1786 May 17 04:47	8°♄39'17	
superior conj	1785 Jul 17 19:23	25°♄27'17	1°34'35	morning max el	1786 May 31 02:16	15°♄35'02	24°21'05
minimum elong	1785 Jul 17 17:20	25°♄16'23	1°34'24		1786 Jun 11 13:41	0°♄	
	1785 Jul 19 23:06	0°♄		asc. node	1786 Jun 23 10:09	21°♄34'09	
max. Earth dist.	1785 Jul 20 19:04	1°♄44'01	1.34103 AU	morning set	1786 Jun 25 03:45	25°♄11'08	
evening rise	1785 Jul 25 15:11	11°♄31'01			1786 Jun 27 09:54	0°♄	
	1785 Aug 04 17:46	0°♄					
desc. node	1785 Aug 13 23:35	14°♄33'13		superior conj	1786 Jul 02 03:45	10°♄17'52	1°20'35
	1785 Aug 26 00:38	0°♄		minimum elong	1786 Jul 02 01:21	10°♄04'47	1°20'16
evening max el	1785 Aug 29 05:49	3°♄17'35	27°11'23	max. Earth dist.	1786 Jul 03 22:12	14°♄07'06	1.33076 AU
retrograde	1785 Sep 11 14:38	10°♄36'17		evening rise	1786 Jul 09 11:27	25°♄44'59	
evening set	1785 Sep 18 13:34	7°♄52'15			1786 Jul 11 14:27	0°♄	
min. Earth dist.	1785 Sep 22 09:16	4°♄12'30	0.64951 AU		1786 Jul 29 04:10	0°♄	
inferior conj	1785 Sep 24 12:48	1°♄49'22	-2°35'47	desc. node	1786 Jul 31 20:37	3°♄45'57	
minimum elong	1785 Sep 24 16:55	1°♄37'57	2°34'18	evening max el	1786 Aug 11 16:28	16°♄24'45	27°26'00
	1785 Sep 26 05:06	30°♄		retrograde	1786 Aug 25 08:58	23°♄42'33	
morning rise	1785 Sep 30 21:09	26°♄17'09		evening set	1786 Sep 01 13:38	21°♄05'43	
asc. node	1785 Oct 02 12:19	25°♄44'51		min. Earth dist.	1786 Sep 05 04:40	17°♄58'21	0.63365 AU
direct	1785 Oct 03 13:33	25°♄38'56		inferior conj	1786 Sep 07 20:45	15°♄17'59	-3°30'53
morning max el	1785 Oct 10 01:47	29°♄08'15	18°05'15	minimum elong	1786 Sep 08 01:54	15°♄05'03	3°29'22
	1785 Oct 10 21:31	0°♄		morning rise	1786 Sep 14 15:24	10°♄02'38	
morning set	1785 Oct 28 01:23	26°♄13'14		direct	1786 Sep 17 03:21	9°♄32'44	
	1785 Oct 30 07:59	0°♄		asc. node	1786 Sep 19 09:23	9°♄57'32	
desc. node	1785 Nov 09 22:55	17°♄18'33		morning max el	1786 Sep 23 17:56	12°♄58'30	17°52'07
					1786 Oct 05 09:15	0°♄	
superior conj	1785 Nov 11 03:11	19°♄11'25	-0°07'55	morning set	1786 Oct 10 05:57	8°♄27'25	
minimum elong	1785 Nov 11 02:12	19°♄07'28	0°07'47				
behind sun begin	1785 Nov 10 16:42	18°♄29'35		superior conj	1786 Oct 22 07:17	29°♄03'54	0°36'54
behind sun end	1785 Nov 11 11:41	19°♄45'18		minimum elong	1786 Oct 22 10:53	29°♄18'51	0°36'25
max. Earth dist.	1785 Nov 14 21:24	25°♄09'00	1.44886 AU		1786 Oct 22 20:50	0°♄	
	1785 Nov 17 23:26	0°♄		desc. node	1786 Oct 27 19:56	8°♄05'36	
evening rise	1785 Nov 27 13:07	14°♄53'13		max. Earth dist.	1786 Oct 28 14:12	9°♄19'01	1.43947 AU
	1785 Dec 07 09:07	0°♄		evening rise	1786 Nov 06 21:25	23°♄55'57	
greatest brilliancy	1785 Dec 10 23:30	5°♄25'27	-0.7m		1786 Nov 10 20:26	0°♄	
evening max el	1785 Dec 23 00:31	21°♄27'32	19°49'15		1786 Dec 01 17:46	0°♄	
asc. node	1785 Dec 29 11:35	25°♄43'32		evening max el	1786 Dec 06 01:21	4°♄57'52	20°53'26
retrograde	1785 Dec 30 12:24	25°♄49'28		retrograde	1786 Dec 14 10:08	9°♄54'59	
evening set	1786 Jan 03 02:40	24°♄33'53		asc. node	1786 Dec 16 08:38	9°♄34'00	
inferior conj	1786 Jan 08 13:52	18°♄33'59	2°56'57	evening set	1786 Dec 18 09:51	8°♄24'22	
minimum elong	1786 Jan 08 11:15	18°♄42'40	2°56'16	inferior conj	1786 Dec 23 18:52	2°♄13'14	2°20'02
min. Earth dist.	1786 Jan 09 13:51	17°♄14'21	0.66765 AU	minimum elong	1786 Dec 23 16:19	2°♄21'58	2°19'12
morning rise	1786 Jan 13 19:36	12°♄20'52		min. Earth dist.	1786 Dec 24 06:13	1°♄34'18	0.67462 AU
direct	1786 Jan 19 19:44	9°♄40'16			1786 Dec 25 10:08	30°♄	
morning max el	1786 Jan 31 20:45	16°♄50'53	25°24'40	morning rise	1786 Dec 28 22:35	26°♄00'07	
desc. node	1786 Feb 05 22:09	22°♄27'39		direct	1787 Jan 03 08:06	23°♄37'50	
	1786 Feb 11 19:52	0°♄		morning max el	1787 Jan 14 05:03	0°♄06'50	23°58'49
	1786 Mar 03 10:26	0°♄			1787 Jan 14 02:20	0°♄	
morning set	1786 Mar 09 02:42	9°♄58'27		desc. node	1787 Jan 23 19:11	11°♄29'52	
max. Earth dist.	1786 Mar 12 19:50	16°♄49'57	1.36308 AU		1787 Feb 05 17:21	0°♄	
				morning set	1787 Feb 18 20:27	21°♄17'40	

max. Earth dist.	1787 Feb 22 15:23	27° \approx 55'40	1.38344 AU	max. Earth dist.	1788 Feb 04 11:50	9° \approx 40'09	1.40497 AU
	1787 Feb 23 19:08	0° \mathbb{H}					
superior conj	1787 Mar 01 21:00	11° \mathbb{H} 15'09	-1°44'04	superior conj	1788 Feb 12 07:01	23° \approx 19'17	-1°59'58
minimum elong	1787 Mar 02 01:13	11° \mathbb{H} 35'10	1°43'38	minimum elong	1788 Feb 12 09:53	23° \approx 32'12	1°59'51
evening rise	1787 Mar 10 19:44	28° \mathbb{H} 39'59		evening rise	1788 Feb 15 22:45	0° \mathbb{H}	
	1787 Mar 11 12:04	0° \mathbb{Y}		asc. node	1788 Feb 22 07:44	11° \mathbb{H} 56'51	
asc. node	1787 Mar 14 07:56	5° \mathbb{Y} 28'02		asc. node	1788 Feb 29 04:58	24° \mathbb{H} 37'15	
evening max el	1787 Mar 27 07:25	25° \mathbb{Y} 18'28	18°55'04		1788 Mar 03 10:27	0° \mathbb{Y}	
retrograde	1787 Apr 04 16:46	29° \mathbb{Y} 22'48		evening max el	1788 Mar 09 12:58	7° \mathbb{Y} 54'59	18°21'26
evening set	1787 Apr 06 21:57	29° \mathbb{Y} 06'54		retrograde	1788 Mar 16 19:45	11° \mathbb{Y} 31'39	
inferior conj	1787 Apr 14 22:02	24° \mathbb{Y} 50'02	1°51'59	evening set	1788 Mar 19 06:48	11° \mathbb{Y} 08'00	
minimum elong	1787 Apr 15 01:48	24° \mathbb{Y} 43'19	1°50'50	inferior conj	1788 Mar 26 12:15	6° \mathbb{Y} 30'41	2°58'58
min. Earth dist.	1787 Apr 18 02:38	22° \mathbb{Y} 34'29	0.57022 AU	minimum elong	1788 Mar 26 15:54	6° \mathbb{Y} 23'01	2°58'11
desc. node	1787 Apr 21 18:20	20° \mathbb{Y} 22'20		min. Earth dist.	1788 Mar 29 22:45	3° \mathbb{Y} 39'47	0.59002 AU
morning rise	1787 Apr 23 02:33	19° \mathbb{Y} 45'15		morning rise	1788 Apr 02 22:25	0° \mathbb{Y} 57'16	
direct	1787 Apr 28 09:44	18° \mathbb{Y} 38'03			1788 Apr 05 00:27	30° \mathbb{R} \mathbb{H}	
morning max el	1787 May 12 17:03	26° \mathbb{Y} 04'04	25°55'32	desc. node	1788 Apr 07 15:23	29° \mathbb{H} 20'15	
	1787 May 16 10:08	0° \mathbb{B}		direct	1788 Apr 09 03:52	29° \mathbb{H} 14'06	
	1787 Jun 04 15:51	0° \mathbb{II}			1788 Apr 13 09:54	0° \mathbb{Y}	
morning set	1787 Jun 09 15:12	10° \mathbb{II} 06'11		morning max el	1788 Apr 23 12:33	6° \mathbb{Y} 57'59	27°07'01
asc. node	1787 Jun 10 07:11	11° \mathbb{II} 30'50			1788 May 10 18:27	0° \mathbb{B}	
				morning set	1788 May 24 00:34	24° \mathbb{B} 53'17	
superior conj	1787 Jun 16 14:45	25° \mathbb{II} 15'01	1°02'18		1788 May 26 10:25	0° \mathbb{II}	
minimum elong	1787 Jun 16 12:29	25° \mathbb{II} 02'35	1°01'55	asc. node	1788 May 27 04:13	1° \mathbb{II} 35'52	
max. Earth dist.	1787 Jun 17 07:47	26° \mathbb{II} 48'26	1.32445 AU				
	1787 Jun 18 18:50	0° \mathbb{E}		superior conj	1788 May 31 02:31	10° \mathbb{II} 11'33	0°40'30
evening rise	1787 Jun 23 15:06	10° \mathbb{E} 20'20		minimum elong	1788 May 31 00:50	10° \mathbb{II} 02'18	0°40'09
	1787 Jul 03 21:03	0° \mathbb{O}		max. Earth dist.	1788 May 30 20:07	9° \mathbb{II} 36'19	1.32198 AU
desc. node	1787 Jul 18 17:37	22° \mathbb{O} 09'43		evening rise	1788 Jun 06 23:31	25° \mathbb{II} 07'29	
evening max el	1787 Jul 24 23:14	28° \mathbb{O} 57'28	27°08'35		1788 Jun 09 07:53	0° \mathbb{E}	
	1787 Jul 26 02:25	0° \mathbb{P}			1788 Jun 26 19:19	0° \mathbb{O}	
retrograde	1787 Aug 07 20:11	6° \mathbb{P} 11'52		desc. node	1788 Jul 04 14:38	9° \mathbb{O} 23'06	
evening set	1787 Aug 14 22:23	3° \mathbb{P} 55'08		evening max el	1788 Jul 05 23:21	10° \mathbb{O} 43'50	26°18'08
min. Earth dist.	1787 Aug 18 13:29	1° \mathbb{P} 11'08	0.61484 AU	retrograde	1788 Jul 19 23:03	17° \mathbb{O} 55'23	
	1787 Aug 19 22:08	30° \mathbb{R} \mathbb{O}		evening set	1788 Jul 26 11:02	16° \mathbb{O} 11'04	
inferior conj	1787 Aug 21 16:18	28° \mathbb{O} 25'46	-4°18'16	min. Earth dist.	1788 Jul 30 12:12	13° \mathbb{O} 35'02	0.59427 AU
minimum elong	1787 Aug 21 21:21	28° \mathbb{O} 14'35	4°17'14	inferior conj	1788 Aug 02 19:48	11° \mathbb{O} 02'00	-4°50'07
morning rise	1787 Aug 28 21:55	23° \mathbb{O} 30'43		minimum elong	1788 Aug 02 22:39	10° \mathbb{O} 56'30	4°49'51
direct	1787 Aug 31 08:11	23° \mathbb{O} 06'11		morning rise	1788 Aug 10 12:22	6° \mathbb{O} 29'49	
asc. node	1787 Sep 06 06:25	25° \mathbb{O} 37'37		direct	1788 Aug 12 23:30	6° \mathbb{O} 08'36	
morning max el	1787 Sep 07 08:20	26° \mathbb{O} 36'28	17°57'31	morning max el	1788 Aug 20 17:52	9° \mathbb{O} 53'03	18°22'43
	1787 Sep 10 07:25	0° \mathbb{P}		asc. node	1788 Aug 23 03:26	12° \mathbb{O} 29'47	
morning set	1787 Sep 23 05:26	21° \mathbb{P} 36'08			1788 Sep 02 22:16	0° \mathbb{P}	
	1787 Sep 27 19:54	0° \mathbb{U}		morning set	1788 Sep 05 18:26	5° \mathbb{P} 23'23	
superior conj	1787 Oct 03 14:37	10° \mathbb{U} 16'49	1°10'54	superior conj	1788 Sep 14 21:51	22° \mathbb{P} 40'16	1°32'45
minimum elong	1787 Oct 03 19:12	10° \mathbb{U} 36'45	1°10'23	minimum elong	1788 Sep 15 01:09	22° \mathbb{P} 55'26	1°32'28
max. Earth dist.	1787 Oct 11 02:51	23° \mathbb{U} 01'24	1.42427 AU		1788 Sep 18 23:08	0° \mathbb{U}	
desc. node	1787 Oct 14 16:57	28° \mathbb{U} 52'20		max. Earth dist.	1788 Sep 22 10:02	6° \mathbb{U} 02'14	1.40509 AU
	1787 Oct 15 09:47	0° \mathbb{M}		evening rise	1788 Sep 26 22:17	13° \mathbb{U} 38'35	
evening rise	1787 Oct 17 11:58	3° \mathbb{M} 19'45		desc. node	1788 Sep 30 13:57	19° \mathbb{U} 35'07	
	1787 Nov 04 06:45	0° \mathbb{X}			1788 Oct 07 06:24	0° \mathbb{M}	
evening max el	1787 Nov 18 20:37	18° \mathbb{X} 29'12	22°07'47		1788 Oct 29 12:25	0° \mathbb{X}	
retrograde	1787 Nov 28 06:26	24° \mathbb{X} 04'58		evening max el	1788 Oct 31 11:19	2° \mathbb{X} 02'46	23°27'26
evening set	1787 Dec 02 17:31	22° \mathbb{X} 17'49		retrograde	1788 Nov 10 23:58	8° \mathbb{X} 16'21	
asc. node	1787 Dec 03 05:41	21° \mathbb{X} 51'46		evening set	1788 Nov 16 00:02	6° \mathbb{X} 12'00	
inferior conj	1787 Dec 08 01:56	15° \mathbb{X} 58'46	1°36'04	asc. node	1788 Nov 19 02:42	2° \mathbb{X} 51'20	
minimum elong	1787 Dec 07 23:55	16° \mathbb{X} 05'43	1°35'18	inferior conj	1788 Nov 21 09:16	29° \mathbb{M} 48'47	0°46'30
min. Earth dist.	1787 Dec 08 01:53	15° \mathbb{X} 58'55	0.67789 AU	minimum elong	1788 Nov 21 08:12	29° \mathbb{M} 52'29	0°46'03
morning rise	1787 Dec 13 06:11	9° \mathbb{X} 47'27		min. Earth dist.	1788 Nov 20 22:33	0° \mathbb{X} 25'30	0.67768 AU
direct	1787 Dec 18 00:36	7° \mathbb{X} 47'33			1788 Nov 21 06:00	30° \mathbb{R} \mathbb{M}	
morning max el	1787 Dec 27 15:34	13° \mathbb{X} 28'39	22°30'39	morning rise	1788 Nov 26 16:19	23° \mathbb{M} 41'15	
	1788 Jan 09 21:11	0° \mathbb{Z}		direct	1788 Nov 30 20:23	22° \mathbb{M} 04'11	
desc. node	1788 Jan 10 16:12	1° \mathbb{Z} 06'50		morning max el	1788 Dec 09 07:52	27° \mathbb{M} 00'06	21°08'20
	1788 Jan 29 16:06	0° \mathbb{A}			1788 Dec 12 01:55	0° \mathbb{X}	
morning set	1788 Jan 30 10:33	1° \mathbb{A} 15'08		desc. node	1788 Dec 27 13:13	21° \mathbb{X} 08'54	
					1789 Jan 02 10:39	0° \mathbb{Z}	

morning set	1789 Jan 08 20:39	9°♄55'15			1789 Dec 06 19:58	0°♄	
max. Earth dist.	1789 Jan 16 14:32	22°♄19'16	1.42471 AU	desc. node	1789 Dec 14 10:14	11°♄28'40	
	1789 Jan 21 05:41	0°♄		morning set	1789 Dec 18 16:42	18°♄02'26	
					1789 Dec 26 08:45	0°♄	
superior conj	1789 Jan 23 18:53	4°♄19'23	-2°04'25	max. Earth dist.	1789 Dec 30 00:23	5°♄47'12	1.44012 AU
minimum elong	1789 Jan 23 17:56	4°♄15'20	2°04'24				
evening rise	1789 Feb 04 05:56	24°♄31'49		superior conj	1790 Jan 04 04:34	14°♄07'14	-1°52'28
	1789 Feb 07 06:55	0°♄		minimum elong	1790 Jan 03 22:13	13°♄41'26	1°52'02
asc. node	1789 Feb 15 02:00	13°♄16'28			1790 Jan 13 17:52	0°♄	
evening max el	1789 Feb 20 23:33	20°♄55'15	18°07'43	evening rise	1790 Jan 17 09:57	6°♄15'33	
retrograde	1789 Feb 27 15:25	24°♄19'59			1790 Feb 01 00:00	0°♄	
evening set	1789 Mar 02 07:47	23°♄46'55		asc. node	1790 Feb 01 23:04	1°♄15'43	
inferior conj	1789 Mar 08 22:05	18°♄48'51	3°34'04	evening max el	1790 Feb 04 12:05	4°♄10'25	18°13'18
minimum elong	1789 Mar 08 23:57	18°♄44'20	3°33'53	retrograde	1790 Feb 10 23:09	7°♄36'58	
min. Earth dist.	1789 Mar 12 01:55	15°♄47'02	0.61144 AU	evening set	1790 Feb 13 20:38	6°♄53'22	
morning rise	1789 Mar 15 14:22	12°♄56'36		inferior conj	1790 Feb 19 23:31	1°♄35'31	3°44'14
direct	1789 Mar 22 09:28	10°♄38'35		minimum elong	1790 Feb 19 23:24	1°♄35'48	3°44'14
desc. node	1789 Mar 25 12:24	11°♄05'39			1790 Feb 21 10:25	30°♄	
morning max el	1789 Apr 05 14:32	18°♄32'17	27°44'39	min. Earth dist.	1790 Feb 22 14:00	28°♄46'02	0.63165 AU
	1789 Apr 15 06:11	0°♄		morning rise	1790 Feb 26 01:14	25°♄32'37	
	1789 May 03 12:06	0°♄		direct	1790 Mar 05 00:07	22°♄50'16	
morning set	1789 May 08 06:03	9°♄26'31		desc. node	1790 Mar 12 09:27	25°♄22'07	
asc. node	1789 May 14 01:16	21°♄45'06			1790 Mar 18 02:44	0°♄	
max. Earth dist.	1789 May 14 07:17	22°♄17'51	1.32336 AU	morning max el	1790 Mar 18 21:28	0°♄45'55	27°45'00
					1790 Apr 09 08:15	0°♄	
superior conj	1789 May 15 13:23	25°♄02'12	0°15'52	morning set	1790 Apr 22 05:22	23°♄38'03	
minimum elong	1789 May 15 12:40	24°♄58'14	0°15'42		1790 Apr 25 08:08	0°♄	
behind sun begin	1789 May 15 11:58	24°♄54'22		max. Earth dist.	1790 Apr 27 13:17	4°♄39'21	1.32875 AU
behind sun end	1789 May 15 13:22	25°♄02'06					
	1789 May 17 19:46	0°♄		superior conj	1790 Apr 29 21:38	9°♄40'49	-0°10'51
evening rise	1789 May 22 10:36	9°♄59'37		minimum elong	1790 Apr 29 22:09	9°♄43'39	0°10'44
	1789 Jun 01 17:23	0°♄		behind sun begin	1790 Apr 29 18:14	9°♄22'35	
evening max el	1789 Jun 17 16:23	21°♄44'26	24°59'52	behind sun end	1790 Apr 30 02:04	10°♄04'45	
desc. node	1789 Jun 21 11:40	24°♄58'00		asc. node	1790 Apr 30 22:20	11°♄54'10	
retrograde	1789 Jul 01 15:58	28°♄50'33		evening rise	1790 May 06 22:27	24°♄50'08	
evening set	1789 Jul 07 00:09	27°♄45'13			1790 May 09 09:56	0°♄	
min. Earth dist.	1789 Jul 12 03:54	24°♄58'21	0.57436 AU		1790 May 28 01:05	0°♄	
inferior conj	1789 Jul 15 04:05	22°♄57'47	-4°54'28	evening max el	1790 May 30 06:14	2°♄17'29	23°25'59
minimum elong	1789 Jul 15 02:17	23°♄00'49	4°54'24	desc. node	1790 Jun 08 08:41	8°♄19'27	
morning rise	1789 Jul 23 07:04	18°♄47'41		retrograde	1790 Jun 12 20:38	9°♄05'28	
direct	1789 Jul 25 21:01	18°♄28'23		evening set	1790 Jun 16 16:57	8°♄33'00	
morning max el	1789 Aug 03 19:26	22°♄39'11	19°08'49	min. Earth dist.	1790 Jun 23 16:24	5°♄20'39	0.55848 AU
	1789 Aug 09 19:20	0°♄		inferior conj	1790 Jun 25 16:27	4°♄09'21	-4°17'25
asc. node	1789 Aug 10 00:28	0°♄19'16		minimum elong	1790 Jun 25 09:42	4°♄19'24	4°16'08
morning set	1789 Aug 20 16:52	19°♄38'12		morning rise	1790 Jul 04 05:04	0°♄14'18	
	1789 Aug 25 22:04	0°♄			1790 Jul 05 15:14	30°♄	
				direct	1790 Jul 06 23:26	29°♄55'29	
superior conj	1789 Aug 28 23:18	5°♄57'59	1°43'42		1790 Jul 08 07:13	0°♄	
minimum elong	1789 Aug 29 00:40	6°♄04'37	1°43'38	morning max el	1790 Jul 17 10:27	4°♄46'10	20°16'08
max. Earth dist.	1789 Sep 04 13:30	18°♄19'28	1.38452 AU	asc. node	1790 Jul 27 21:32	18°♄53'15	
evening rise	1789 Sep 08 08:49	25°♄05'03			1790 Aug 02 19:38	0°♄	
	1789 Sep 11 05:40	0°♄		morning set	1790 Aug 04 21:49	4°♄13'05	
desc. node	1789 Sep 17 10:59	10°♄09'47					
	1789 Sep 30 22:27	0°♄		superior conj	1790 Aug 12 13:58	19°♄55'42	1°45'39
evening max el	1789 Oct 13 23:34	15°♄39'45	24°46'05	minimum elong	1790 Aug 12 13:36	19°♄53'52	1°45'39
retrograde	1789 Oct 25 13:39	22°♄24'42			1790 Aug 17 16:30	0°♄	
evening set	1789 Oct 31 03:45	20°♄03'56		max. Earth dist.	1790 Aug 17 19:05	0°♄12'25	1.36515 AU
min. Earth dist.	1789 Nov 04 17:53	14°♄51'12	0.67416 AU	evening rise	1790 Aug 21 17:21	7°♄34'32	
inferior conj	1789 Nov 05 15:08	13°♄40'45	-0°07'25		1790 Sep 03 23:50	0°♄	
minimum elong	1789 Nov 05 15:19	13°♄40'09	0°07'20	desc. node	1790 Sep 04 08:01	0°♄31'41	
transit middle	1789 Nov 05 15:19	13°♄40'09	0°07'20	evening max el	1790 Sep 26 11:35	29°♄19'48	25°56'19
transit begin	1789 Nov 05 12:51	13°♄48'19			1790 Sep 27 04:24	0°♄	
transit end	1789 Nov 05 17:46	13°♄32'00		retrograde	1790 Oct 08 22:37	6°♄25'19	
asc. node	1789 Nov 05 23:44	13°♄12'16		evening set	1790 Oct 15 02:53	3°♄50'56	
morning rise	1789 Nov 11 02:59	7°♄39'16			1790 Oct 18 18:26	30°♄	
direct	1789 Nov 14 18:18	6°♄23'04		min. Earth dist.	1790 Oct 19 09:27	29°♄13'44	0.66734 AU
morning max el	1789 Nov 22 07:46	10°♄41'59	19°57'21	inferior conj	1790 Oct 20 17:43	27°♄32'17	-1°04'17



























































































































minimum elong	1790 Oct 20 19:23	27°  27'01	1°03'35	asc. node	1791 Oct 10 17:48	5°  38'03	
asc. node	1790 Oct 23 20:45	23°  51'48		direct	1791 Oct 13 14:07	4°  53'17	
morning rise	1790 Oct 26 12:14	21°  39'35		morning max el	1791 Oct 20 03:52	8°  28'04	18°20'45
direct	1790 Oct 29 16:53	20°  40'58			1791 Nov 04 02:17	0° 	
morning max el	1790 Nov 05 15:02	24°  32'57	19°00'59	morning set	1791 Nov 08 10:42	7°  103'27	
	1790 Nov 10 05:15	0° 		desc. node	1791 Nov 18 04:20	22°  142'15	
morning set	1790 Nov 28 00:03	26°  151'10			1791 Nov 22 18:55	0° 	
	1790 Nov 30 00:18	0° 					
desc. node	1790 Dec 01 07:18	2°  101'22		superior conj	1791 Nov 23 16:00	1°  123'07	-0°36'07
max. Earth dist.	1790 Dec 12 16:20	19°  151'44	1.44931 AU	minimum elong	1791 Nov 23 11:19	1°  104'40	0°35'30
				max. Earth dist.	1791 Nov 25 11:30	4°  14'12	1.45119 AU
superior conj	1790 Dec 14 14:43	22°  154'29	-1°21'31	evening rise	1791 Dec 09 22:35	26°  153'56	
minimum elong	1790 Dec 14 05:58	22°  120'00	1°20'35		1791 Dec 11 22:03	0° 	
	1790 Dec 19 02:07	0° 		greatest brilliancy	1791 Dec 20 19:07	13°  350'37	-0.8m
evening rise	1790 Dec 29 15:56	17°  302'41			1792 Jan 01 09:14	0° 	
	1791 Jan 06 14:39	0° 		evening max el	1792 Jan 02 08:44	1°  03'03	19°18'28
evening max el	1791 Jan 18 23:57	17°  034'38	18°37'16	asc. node	1792 Jan 06 17:07	4°  026'14	
asc. node	1791 Jan 19 20:06	18°  023'35		retrograde	1792 Jan 09 10:53	5°  007'06	
retrograde	1791 Jan 25 14:45	21°  014'45		evening set	1792 Jan 12 20:42	3°  059'12	
evening set	1791 Jan 28 17:51	20°  019'34			1792 Jan 16 22:15	30°  103	
inferior conj	1791 Feb 03 12:37	14°  043'31	3°36'02	inferior conj	1792 Jan 18 10:00	28°  037'05	3°14'17
minimum elong	1791 Feb 03 11:02	14°  048'16	3°35'51	minimum elong	1792 Jan 18 07:35	28°  0314'52	3°13'48
min. Earth dist.	1791 Feb 05 11:33	12°  023'04	0.64878 AU	min. Earth dist.	1792 Jan 19 17:52	26°  0324'32	0.66192 AU
morning rise	1791 Feb 09 03:45	8°  034'45		morning rise	1792 Jan 23 18:14	21°  0355'09	
direct	1791 Feb 15 22:01	5°  042'56		direct	1792 Jan 30 01:59	19°  0307'35	
desc. node	1791 Feb 27 06:30	11°  034'53		morning max el	1792 Feb 11 16:27	26°  0335'15	26°09'10
morning max el	1791 Mar 01 06:52	13°  030'38	27°10'49	desc. node	1792 Feb 14 03:34	29°  0311'46	
	1791 Mar 14 14:57	0° 			1792 Feb 14 20:46	0° 	
	1791 Apr 01 23:00	0° 			1792 Mar 07 05:21	0° 	
morning set	1791 Apr 05 19:37	7°  018'32		morning set	1792 Mar 18 20:55	20°  016'39	
max. Earth dist.	1791 Apr 10 10:25	16°  030'32	1.33855 AU	max. Earth dist.	1792 Mar 22 20:17	27°  0150'20	1.35292 AU
					1792 Mar 23 22:49	0° 	
superior conj	1791 Apr 14 01:14	24°  010'00	-0°38'37				
minimum elong	1791 Apr 14 03:10	24°  011'11	0°38'13	superior conj	1792 Mar 27 21:49	7°  055'37	-1°06'08
	1791 Apr 16 21:03	0° 		minimum elong	1792 Mar 28 01:06	8°  012'22	1°05'33
asc. node	1791 Apr 17 19:24	1°  058'49		asc. node	1792 Apr 03 16:27	21°  0154'52	
evening rise	1791 Apr 21 09:12	9°  032'36		evening rise	1792 Apr 04 16:55	24°  0100'51	
	1791 May 02 03:51	0° 			1792 Apr 07 15:55	0° 	
evening max el	1791 May 11 23:58	12°  052'22	21°51'27	evening max el	1792 Apr 23 03:32	23°  055'33	20°28'28
retrograde	1791 May 24 13:16	19°  0102'27		retrograde	1792 May 04 02:28	29°  014'18	
desc. node	1791 May 26 05:43	18°  0156'02		evening set	1792 May 06 04:11	29°  0103'42	
evening set	1791 May 27 04:03	18°  0147'10		desc. node	1792 May 12 02:44	26°  0154'01	
min. Earth dist.	1791 Jun 05 04:13	14°  0157'04	0.54998 AU	inferior conj	1792 May 15 08:18	25°  0105'49	-0°56'29
inferior conj	1791 Jun 05 13:46	14°  0143'41	-2°52'45	minimum elong	1792 May 15 05:38	25°  0109'41	0°55'30
minimum elong	1791 Jun 05 06:25	14°  0153'59	2°50'27	min. Earth dist.	1792 May 16 16:55	24°  0118'30	0.55085 AU
morning rise	1791 Jun 14 10:02	10°  0149'32		morning rise	1792 May 24 06:02	20°  0153'14	
direct	1791 Jun 17 12:10	10°  0128'27		direct	1792 May 27 22:55	20°  0123'38	
morning max el	1791 Jun 29 13:59	16°  0108'41	21°42'47	morning max el	1792 Jun 10 08:25	26°  0153'51	23°22'24
	1791 Jul 10 06:14	0° 			1792 Jun 13 08:36	0° 	
asc. node	1791 Jul 14 18:36	8°  0100'25		asc. node	1792 Jun 30 15:41	27°  0132'20	
morning set	1791 Jul 20 06:53	19°  0100'48			1792 Jul 01 20:47	0° 	
	1791 Jul 25 12:07	0° 		morning set	1792 Jul 03 18:11	3°  0155'54	
superior conj	1791 Jul 27 13:46	4°  0120'53	1°40'22	superior conj	1792 Jul 10 19:45	19°  0104'35	1°29'13
minimum elong	1791 Jul 27 12:11	4°  0112'32	1°40'16	minimum elong	1792 Jul 10 17:28	18°  0105'25	1°28'58
max. Earth dist.	1791 Jul 31 08:13	12°  0106'37	1.34877 AU	max. Earth dist.	1792 Jul 13 06:39	24°  0108'15	1.33621 AU
evening rise	1791 Aug 04 19:08	20°  0153'54			1792 Jul 16 00:15	0° 	
	1791 Aug 09 16:45	0° 		evening rise	1792 Jul 18 09:46	4°  0151'02	
desc. node	1791 Aug 22 05:02	20°  0113'34'48			1792 Aug 01 09:17	0° 	
	1791 Aug 28 21:07	0° 		desc. node	1792 Aug 08 02:02	10°  0110'38	
evening max el	1791 Sep 08 23:56	12°  0155'32	26°50'29	evening max el	1792 Aug 21 11:38	26°  0116'05	27°21'12
retrograde	1791 Sep 22 02:07	20°  0111'05			1792 Aug 25 21:56	0° 	
evening set	1791 Sep 28 19:15	17°  0128'20		retrograde	1792 Sep 03 23:48	3°  0134'19	
min. Earth dist.	1791 Oct 02 18:47	13°  0127'49	0.65707 AU	evening set	1792 Sep 11 02:11	0°  0151'46	
inferior conj	1791 Oct 04 14:58	11°  0118'44	-2°02'31		1792 Sep 12 03:39	30°  01103	
minimum elong	1791 Oct 04 18:14	11°  0109'12	2°01'15	min. Earth dist.	1792 Sep 14 19:34	27°  01126'43	0.64323 AU
morning rise	1791 Oct 10 17:51	5°  0138'00		inferior conj	1792 Sep 17 04:32	24°  01155'10	-2°59'46


































































































































minimum elong	1792 Sep 17 09:10	24° \mathbb{M} 42'48	2°58'12	minimum elong	1793 Aug 31 12:52	8° \mathbb{M} 02'49	3°50'59
morning rise	1792 Sep 23 17:09	19° \mathbb{M} 29'50		morning rise	1793 Sep 07 06:54	3° \mathbb{M} 08'44	
direct	1792 Sep 26 07:26	18° \mathbb{M} 55'28		direct	1793 Sep 09 17:45	2° \mathbb{M} 41'30	
asc. node	1792 Sep 26 14:52	18° \mathbb{M} 55'57		asc. node	1793 Sep 13 11:55	3° \mathbb{M} 47'07	
morning max el	1792 Oct 02 19:39	22° \mathbb{M} 21'53	17°57'31	morning max el	1793 Sep 16 11:30	6° \mathbb{M} 08'03	17°52'09
	1792 Oct 08 18:23	0° \mathbb{L}			1793 Oct 01 21:33	0° \mathbb{L}	
morning set	1792 Oct 20 01:26	18° \mathbb{L} 37'38		morning set	1793 Oct 02 14:45	1° \mathbb{L} 16'42	
	1792 Oct 26 19:33	0° \mathbb{M}					
superior conj	1792 Nov 02 06:00	10° \mathbb{M} 33'12	0°12'10	superior conj	1793 Oct 13 21:46	21° \mathbb{L} 00'20	0°52'50
minimum elong	1792 Nov 02 07:24	10° \mathbb{M} 38'52	0°11'58	minimum elong	1793 Oct 14 02:10	21° \mathbb{L} 19'00	0°52'15
behind sun begin	1792 Nov 02 00:26	10° \mathbb{M} 10'41			1793 Oct 19 07:30	0° \mathbb{M}	
behind sun end	1792 Nov 02 14:22	11° \mathbb{M} 07'01		max. Earth dist.	1793 Oct 20 21:12	2° \mathbb{M} 33'31	1.43352 AU
desc. node	1792 Nov 04 01:21	13° \mathbb{M} 27'48		desc. node	1793 Oct 21 22:21	4° \mathbb{M} 15'05	
max. Earth dist.	1792 Nov 07 06:10	18° \mathbb{M} 34'18	1.44566 AU	evening rise	1793 Oct 28 19:59	15° \mathbb{M} 10'09	
	1792 Nov 14 13:00	0° \mathbb{X}			1793 Nov 07 13:57	0° \mathbb{X}	
evening rise	1792 Nov 18 11:14	6° \mathbb{X} 04'22		evening max el	1793 Nov 28 10:57	28° \mathbb{X} 02'24	21°24'06
	1792 Dec 04 08:03	0° \mathbb{Z}			1793 Nov 30 12:32	0° \mathbb{Z}	
evening max el	1792 Dec 15 12:39	14° \mathbb{Z} 32'19	20°15'02	retrograde	1793 Dec 07 06:12	3° \mathbb{Z} 16'27	
retrograde	1792 Dec 23 08:44	19° \mathbb{Z} 08'42		asc. node	1793 Dec 10 11:10	2° \mathbb{Z} 19'26	
asc. node	1792 Dec 23 14:08	19° \mathbb{Z} 08'25		evening set	1793 Dec 11 10:27	1° \mathbb{Z} 38'59	
evening set	1792 Dec 27 02:51	17° \mathbb{Z} 46'44			1793 Dec 13 04:34	30° \mathbb{R} \mathbb{X}	
inferior conj	1793 Jan 01 12:52	11° \mathbb{Z} 41'25	2°42'15	inferior conj	1793 Dec 16 19:00	25° \mathbb{X} 23'49	2°02'10
minimum elong	1793 Jan 01 10:13	11° \mathbb{Z} 50'21	2°41'30	minimum elong	1793 Dec 16 16:37	25° \mathbb{X} 32'00	2°01'21
min. Earth dist.	1793 Jan 02 07:13	10° \mathbb{Z} 39'29	0.67102 AU	min. Earth dist.	1793 Dec 17 01:21	25° \mathbb{X} 01'48	0.67634 AU
morning rise	1793 Jan 06 17:25	5° \mathbb{Z} 28'07		morning rise	1793 Dec 21 22:37	19° \mathbb{X} 11'02	
direct	1793 Jan 12 11:21	2° \mathbb{Z} 54'54		direct	1793 Dec 27 01:35	16° \mathbb{X} 58'04	
morning max el	1793 Jan 24 01:07	9° \mathbb{Z} 49'06	24°49'12	morning max el	1794 Jan 06 10:04	23° \mathbb{X} 07'45	23°21'09
desc. node	1793 Jan 31 00:35	17° \mathbb{Z} 47'50			1794 Jan 12 11:04	0° \mathbb{Z}	
	1793 Feb 09 00:52	0° \mathbb{A}		desc. node	1794 Jan 17 21:36	7° \mathbb{Z} 06'13	
	1793 Feb 27 20:54	0° \mathbb{H}			1794 Feb 02 10:10	0° \mathbb{A}	
morning set	1793 Mar 01 03:58	2° \mathbb{H} 16'47		morning set	1794 Feb 10 10:36	13° \mathbb{A} 02'54	
max. Earth dist.	1793 Mar 04 19:43	8° \mathbb{H} 52'50	1.37144 AU	max. Earth dist.	1794 Feb 14 14:25	20° \mathbb{A} 10'12	1.39257 AU
					1794 Feb 20 02:32	0° \mathbb{H}	
superior conj	1793 Mar 11 08:12	21° \mathbb{H} 15'15	-1°31'28	superior conj	1794 Feb 22 04:29	3° \mathbb{H} 50'16	-1°51'54
minimum elong	1793 Mar 11 12:22	21° \mathbb{H} 35'37	1°30'56	minimum elong	1794 Feb 22 08:23	4° \mathbb{H} 08'26	1°51'36
	1793 Mar 15 18:08	0° \mathbb{Y}		evening rise	1794 Mar 03 13:23	21° \mathbb{H} 44'00	
evening rise	1793 Mar 19 19:13	8° \mathbb{Y} 06'59			1794 Mar 07 21:33	0° \mathbb{Y}	
asc. node	1793 Mar 21 13:28	11° \mathbb{Y} 36'57		asc. node	1794 Mar 08 10:29	0° \mathbb{Y} 59'58	
	1793 Apr 01 01:40	0° \mathbb{B}		evening max el	1794 Mar 19 19:59	17° \mathbb{Y} 56'42	18°38'18
evening max el	1793 Apr 05 18:44	5° \mathbb{B} 37'29	19°23'24	retrograde	1794 Mar 27 16:43	21° \mathbb{Y} 47'14	
retrograde	1793 Apr 15 00:53	10° \mathbb{B} 05'52		evening set	1794 Mar 30 00:17	21° \mathbb{Y} 28'27	
evening set	1793 Apr 17 02:51	9° \mathbb{B} 53'16		inferior conj	1794 Apr 06 16:11	17° \mathbb{Y} 03'26	2°24'33
inferior conj	1793 Apr 25 14:16	5° \mathbb{B} 46'03	0°57'51	minimum elong	1794 Apr 06 20:14	16° \mathbb{Y} 55'41	2°23'28
minimum elong	1793 Apr 25 16:36	5° \mathbb{B} 42'13	0°57'03	min. Earth dist.	1794 Apr 10 01:19	14° \mathbb{Y} 29'47	0.57824 AU
min. Earth dist.	1793 Apr 28 07:34	3° \mathbb{B} 59'41	0.56097 AU	morning rise	1794 Apr 14 13:06	11° \mathbb{Y} 44'57	
desc. node	1793 Apr 28 23:47	3° \mathbb{B} 34'22		desc. node	1794 Apr 15 20:49	11° \mathbb{Y} 11'44	
morning rise	1793 May 04 03:30	1° \mathbb{B} 00'28		direct	1794 Apr 20 06:33	10° \mathbb{Y} 22'47	
direct	1793 May 08 19:30	0° \mathbb{B} 10'50		morning max el	1794 May 04 15:26	17° \mathbb{Y} 58'32	26°29'23
morning max el	1793 May 22 22:59	7° \mathbb{B} 21'20	25°03'08		1794 May 14 15:40	0° \mathbb{B}	
	1793 Jun 08 12:58	0° \mathbb{I}			1794 May 31 21:34	0° \mathbb{I}	
asc. node	1793 Jun 17 12:44	17° \mathbb{I} 21'24		morning set	1794 Jun 02 16:48	3° \mathbb{I} 44'31	
morning set	1793 Jun 18 06:02	18° \mathbb{I} 52'19		asc. node	1794 Jun 04 09:46	7° \mathbb{I} 22'04	
	1793 Jun 23 09:47	0° \mathbb{G}					
superior conj	1793 Jun 25 05:29	3° \mathbb{G} 58'39	1°13'19	superior conj	1794 Jun 09 17:02	18° \mathbb{I} 56'21	0°53'27
minimum elong	1793 Jun 25 03:04	3° \mathbb{G} 45'32	1°12'56	minimum elong	1794 Jun 09 14:58	18° \mathbb{I} 44'58	0°53'03
max. Earth dist.	1793 Jun 26 12:52	6° \mathbb{G} 49'32	1.32760 AU	max. Earth dist.	1794 Jun 09 23:52	19° \mathbb{I} 33'55	1.32293 AU
evening rise	1793 Jul 02 09:30	19° \mathbb{G} 14'45			1794 Jun 14 18:54	0° \mathbb{G}	
	1793 Jul 07 20:19	0° \mathbb{Q}		evening rise	1794 Jun 16 15:29	3° \mathbb{G} 55'54	
desc. node	1793 Jul 25 23:03	29° \mathbb{Q} 01'28			1794 Jun 30 14:56	0° \mathbb{Q}	
	1793 Jul 26 17:09	0° \mathbb{P}		desc. node	1794 Jul 12 20:05	16° \mathbb{Q} 58'14	
evening max el	1793 Aug 03 20:43	9° \mathbb{P} 09'00	27°22'33	evening max el	1794 Jul 17 00:47	21° \mathbb{Q} 22'24	26°50'59
retrograde	1793 Aug 17 15:21	16° \mathbb{P} 26'01		retrograde	1794 Jul 30 23:32	28° \mathbb{Q} 36'20	
evening set	1793 Aug 24 20:17	13° \mathbb{P} 55'41		evening set	1794 Aug 06 21:06	26° \mathbb{Q} 32'05	
min. Earth dist.	1793 Aug 28 10:20	11° \mathbb{P} 00'05	0.62595 AU	min. Earth dist.	1794 Aug 10 14:51	23° \mathbb{Q} 53'30	0.60612 AU
inferior conj	1793 Aug 31 07:34	8° \mathbb{P} 15'27	-3°52'22	inferior conj	1794 Aug 13 20:44	21° \mathbb{Q} 10'50	-4°34'21
				minimum elong	1794 Aug 14 01:09	21° \mathbb{Q} 01'34	4°33'40

morning rise	1794 Aug 21 07:04	16°Ω25'24			1795 Aug 01 06:43	30°℞☿	
direct	1794 Aug 23 17:13	16°Ω02'39		morning rise	1795 Aug 03 13:32	29°☿09'13	
morning max el	1794 Aug 31 00:15	19°Ω38'02	18°05'44	direct	1795 Aug 06 01:39	28°☿48'54	
asc. node	1794 Aug 31 08:58	19°Ω59'34			1795 Aug 10 14:29	0°Ω	
	1794 Sep 07 16:06	0°℞		morning max el	1795 Aug 14 06:47	2°Ω43'19	18°39'37
morning set	1794 Sep 15 20:34	14°℞43'03		asc. node	1795 Aug 18 06:01	7°Ω18'22	
	1794 Sep 24 03:11	0°Ω		morning set	1795 Aug 30 14:06	28°Ω43'57	
					1795 Aug 31 05:45	0°℞	
superior conj	1794 Sep 25 15:54	2°Ω44'45	1°21'37	superior conj	1795 Sep 08 07:37	15°℞33'31	1°38'36
minimum elong	1794 Sep 25 20:06	3°Ω03'29	1°21'11	minimum elong	1795 Sep 08 10:07	15°℞45'15	1°38'26
max. Earth dist.	1794 Oct 03 06:56	15°Ω56'53	1.41639 AU	max. Earth dist.	1795 Sep 15 12:20	28°℞39'21	1.39643 AU
evening rise	1794 Oct 08 17:47	24°Ω54'07			1795 Sep 16 06:45	0°Ω	
desc. node	1794 Oct 08 19:22	25°Ω00'28		evening rise	1795 Sep 19 14:32	5°Ω42'24	
	1794 Oct 11 22:45	0°℞		desc. node	1795 Sep 25 16:24	15°Ω40'37	
	1794 Nov 01 11:51	0°♊			1795 Oct 05 01:29	0°℞	
evening max el	1794 Nov 11 04:03	11°♊34'08	22°41'29	evening max el	1795 Oct 24 17:39	25°℞09'46	24°01'28
retrograde	1794 Nov 21 01:29	17°♊26'45			1795 Oct 30 16:06	0°♊	
evening set	1794 Nov 25 17:48	15°♊32'34		retrograde	1795 Nov 04 17:21	1°♊37'02	
asc. node	1794 Nov 27 08:12	14°♊00'20			1795 Nov 09 05:58	30°℞℞	
inferior conj	1794 Dec 01 02:24	9°♊11'18	1°15'39	evening set	1795 Nov 09 23:18	29°℞25'42	
minimum elong	1794 Dec 01 00:44	9°♊17'02	1°15'00	asc. node	1795 Nov 14 05:15	24°℞36'53	
min. Earth dist.	1794 Nov 30 21:50	9°♊27'04	0.67816 AU	inferior conj	1795 Nov 15 09:19	23°℞02'13	0°24'05
morning rise	1794 Dec 06 07:33	3°♊01'05		minimum elong	1795 Nov 15 08:45	23°℞04'11	0°23'51
direct	1794 Dec 10 19:43	1°♊10'47		min. Earth dist.	1795 Nov 14 18:13	23°℞53'21	0.67665 AU
morning max el	1794 Dec 19 22:29	6°♊32'15	21°54'29	morning rise	1795 Nov 20 18:10	16°℞56'56	
desc. node	1795 Jan 04 18:37	26°♊54'32		direct	1795 Nov 24 16:42	15°℞28'51	
	1795 Jan 06 21:38	0°♊		morning max el	1795 Dec 02 17:47	20°℞07'23	20°36'26
morning set	1795 Jan 21 12:05	22°♊24'18			1795 Dec 10 20:28	0°♊	
	1795 Jan 26 04:05	0°♊		desc. node	1795 Dec 22 15:39	17°♊04'40	
max. Earth dist.	1795 Jan 27 12:26	2°♊14'15	1.41371 AU		1795 Dec 31 02:46	0°♊	
				morning set	1795 Dec 31 13:22	0°♊41'07	
superior conj	1795 Feb 04 05:43	15°♊28'24	-2°03'34	max. Earth dist.	1796 Jan 09 18:30	15°♊16'15	1.43197 AU
minimum elong	1795 Feb 04 07:17	15°♊35'18	2°03'32				
	1795 Feb 12 06:38	0°♊		superior conj	1796 Jan 16 06:42	25°♊57'48	-2°01'37
evening rise	1795 Feb 14 19:57	4°♊43'25		minimum elong	1796 Jan 16 03:28	25°♊44'18	2°01'30
asc. node	1795 Feb 23 07:32	19°♊57'17			1796 Jan 18 16:17	0°♊	
	1795 Mar 02 10:38	0°♊		evening rise	1796 Jan 28 10:54	16°♊56'57	
evening max el	1795 Mar 03 04:08	0°♊44'45	18°13'18		1796 Feb 04 22:19	0°♊	
retrograde	1795 Mar 10 03:06	4°♊14'08		asc. node	1796 Feb 10 04:34	8°♊20'26	
evening set	1795 Mar 12 16:35	3°♊46'34		evening max el	1796 Feb 14 15:56	13°♊52'04	18°07'51
	1795 Mar 18 12:03	30°℞♊		retrograde	1796 Feb 21 04:26	17°♊15'49	
inferior conj	1795 Mar 19 15:08	29°♊00'37	3°17'20	evening set	1796 Feb 23 23:06	16°♊38'12	
minimum elong	1795 Mar 19 18:08	28°♊53'56	3°16'50	inferior conj	1796 Mar 01 08:03	11°♊31'22	3°41'02
min. Earth dist.	1795 Mar 23 00:08	26°♊01'54	0.59914 AU	minimum elong	1796 Mar 01 09:03	11°♊28'49	3°40'58
morning rise	1795 Mar 26 17:27	23°♊18'18		min. Earth dist.	1796 Mar 04 06:39	8°♊32'35	0.62030 AU
direct	1795 Apr 02 06:11	21°♊19'14		morning rise	1796 Mar 07 17:42	5°♊34'06	
desc. node	1795 Apr 02 17:50	21°♊19'53		direct	1796 Mar 14 15:37	3°♊04'20	
morning max el	1795 Apr 16 13:26	29°♊08'03	27°27'27	desc. node	1796 Mar 19 14:52	4°♊13'03	
	1795 Apr 17 10:07	0°♊		morning max el	1796 Mar 28 17:39	10°♊58'57	27°49'28
	1795 May 08 11:44	0°♊			1796 Apr 12 15:45	0°♊	
morning set	1795 May 18 00:48	18°♊26'57			1796 Apr 29 17:53	0°♊	
asc. node	1795 May 22 06:49	27°♊29'47		morning set	1796 May 01 03:58	2°♊51'54	
	1795 May 23 10:24	0°♊		max. Earth dist.	1796 May 06 21:48	14°♊56'39	1.32517 AU
max. Earth dist.	1795 May 24 12:09	2°♊21'06	1.32210 AU	asc. node	1796 May 08 03:51	17°♊39'24	
superior conj	1795 May 25 04:41	3°♊51'52	0°30'22	superior conj	1796 May 08 14:39	18°♊38'10	0°04'46
minimum elong	1795 May 25 03:22	3°♊44'38	0°30'05	minimum elong	1796 May 08 14:26	18°♊36'56	0°04'43
evening rise	1795 Jun 01 01:20	18°♊46'53		behind sun begin	1796 May 08 09:30	18°♊10'05	
	1795 Jun 06 13:51	0°☿		behind sun end	1796 May 08 19:22	19°♊03'48	
	1795 Jun 26 03:46	0°Ω			1796 May 13 19:57	0°♊	
evening max el	1795 Jun 28 22:05	2°Ω50'10	25°47'44	evening rise	1796 May 15 12:59	3°♊39'28	
desc. node	1795 Jun 29 17:07	3°Ω34'32			1796 May 29 17:30	0°☿	
retrograde	1795 Jul 12 22:29	9°Ω59'36		evening max el	1796 Jun 09 13:11	13°☿36'27	24°20'57
evening set	1795 Jul 19 00:01	8°Ω32'05		desc. node	1796 Jun 15 14:10	18°☿17'42	
min. Earth dist.	1795 Jul 23 10:28	5°Ω53'22	0.58555 AU	retrograde	1796 Jun 23 09:56	20°☿36'15	
inferior conj	1795 Jul 26 16:31	3°Ω32'02	-4°56'11	evening set	1796 Jun 28 03:28	19°☿46'19	
minimum elong	1795 Jul 26 17:38	3°Ω29'59	4°56'09				

min. Earth dist.	1796 Jul 04 00:06	16° ☿ 50'22	0.56700 AU	desc. node	1797 Jun 02 11:10	0° ☿ 32'00	
inferior conj	1796 Jul 06 16:12	15° ☿ 09'15	-4°44'32	retrograde	1797 Jun 04 09:14	0° ☿ 40'24	
minimum elong	1796 Jul 06 12:05	15° ☿ 15'48	4°44'05	evening set	1797 Jun 07 15:31	0° ☿ 17'00	
morning rise	1796 Jul 14 23:23	11° ☿ 06'48			1797 Jun 08 16:49	30° ☿ II	
direct	1796 Jul 17 15:15	10° ☿ 47'45		min. Earth dist.	1797 Jun 15 11:47	26° II 50'18	0.55384 AU
morning max el	1796 Jul 27 04:03	15° ☿ 13'28	19°34'50	inferior conj	1797 Jun 16 21:03	26° II 02'39	-3°47'00
asc. node	1796 Aug 04 03:04	25° ☿ 28'13		minimum elong	1797 Jun 16 13:17	26° II 13'47	3°45'05
	1796 Aug 06 19:08	0° ☿		morning rise	1797 Jun 25 13:24	22° II 10'34	
morning set	1796 Aug 13 15:39	13° ☿ 08'30		direct	1797 Jun 28 10:24	21° II 51'23	
				morning max el	1797 Jul 09 14:11	27° II 01'48	20°50'53
superior conj	1796 Aug 21 15:16	29° ☿ 09'56	1°45'30		1797 Jul 12 10:46	0° ☿	
minimum elong	1796 Aug 21 15:51	29° ☿ 12'50	1°45'30	asc. node	1797 Jul 22 00:08	14° ☿ 17'21	
	1796 Aug 22 01:27	0° ☿		morning set	1797 Jul 28 22:35	27° ☿ 49'32	
max. Earth dist.	1796 Aug 27 16:26	10° ☿ 45'18	1.37610 AU		1797 Jul 29 23:51	0° ☿	
evening rise	1796 Aug 31 10:56	17° ☿ 36'46					
	1796 Sep 07 16:59	0° ☿		superior conj	1797 Aug 05 10:15	13° ☿ 20'49	1°44'12
desc. node	1796 Sep 11 13:28	6° ☿ 10'42		minimum elong	1797 Aug 05 09:17	13° ☿ 15'55	1°44'10
	1796 Sep 28 09:34	0° ☿		max. Earth dist.	1797 Aug 10 00:35	22° ☿ 35'16	1.35776 AU
evening max el	1796 Oct 06 05:39	8° ☿ 48'34	25°17'21		1797 Aug 13 21:12	0° ☿	
retrograde	1796 Oct 18 04:58	15° ☿ 43'01		evening rise	1797 Aug 14 03:20	0° ☿ 28'42	
evening set	1796 Oct 24 01:18	13° ☿ 15'50		desc. node	1797 Aug 29 10:30	26° ☿ 25'07	
min. Earth dist.	1796 Oct 28 12:08	8° ☿ 18'17	0.67175 AU		1797 Aug 31 19:43	0° ☿	
inferior conj	1796 Oct 29 14:01	6° ☿ 54'15	-0°31'15	evening max el	1797 Sep 18 17:34	22° ☿ 26'59	26°21'41
minimum elong	1796 Oct 29 14:49	6° ☿ 51'40	0°30'55	retrograde	1797 Oct 01 11:45	29° ☿ 38'30	
asc. node	1796 Oct 31 02:17	4° ☿ 58'40		evening set	1797 Oct 07 21:52	26° ☿ 59'22	
morning rise	1796 Nov 04 04:31	0° ☿ 56'24		min. Earth dist.	1797 Oct 12 01:15	22° ☿ 37'59	0.66341 AU
	1796 Nov 06 04:27	30° ☿		inferior conj	1797 Oct 13 14:35	20° ☿ 43'56	-1°28'58
direct	1796 Nov 07 15:05	29° ☿ 48'07		minimum elong	1797 Oct 13 16:56	20° ☿ 36'45	1°28'00
	1796 Nov 09 02:31	0° ☿		asc. node	1797 Oct 17 23:20	16° ☿ 01'35	
morning max el	1796 Nov 14 21:03	3° ☿ 53'53	19°31'29	morning rise	1797 Oct 19 12:30	14° ☿ 56'14	
greatest brilliancy	1796 Nov 28 07:11	21° ☿ 51'45	-0.7m	direct	1797 Oct 22 13:13	14° ☿ 04'09	
	1796 Dec 03 15:40	0° ☿		morning max el	1797 Oct 29 07:04	17° ☿ 47'44	18°41'50
desc. node	1796 Dec 08 12:42	7° ☿ 30'42			1797 Nov 07 12:47	0° ☿	
morning set	1796 Dec 09 11:19	8° ☿ 58'10		morning set	1797 Nov 19 05:16	18° ☿ 20'06	
max. Earth dist.	1796 Dec 22 07:50	29° ☿ 04'06	1.44488 AU	desc. node	1797 Nov 25 09:44	28° ☿ 07'24	
	1796 Dec 22 21:56	0° ☿			1797 Nov 26 14:18	0° ☿	
superior conj	1796 Dec 26 05:22	5° ☿ 16'32	-1°41'34	superior conj	1797 Dec 05 09:11	13° ☿ 48'39	-1°03'25
minimum elong	1796 Dec 25 21:17	4° ☿ 44'10	1°40'54	minimum elong	1797 Dec 05 01:29	13° ☿ 18'23	1°02'29
evening rise	1797 Jan 09 05:58	28° ☿ 17'33		max. Earth dist.	1797 Dec 05 01:21	13° ☿ 17'53	1.45097 AU
	1797 Jan 10 06:24	0° ☿			1797 Dec 15 15:26	0° ☿	
asc. node	1797 Jan 27 01:37	25° ☿ 59'26		evening rise	1797 Dec 21 01:55	8° ☿ 40'13	
evening max el	1797 Jan 28 04:27	27° ☿ 11'32	18°21'17	greatest brilliancy	1797 Dec 28 16:23	20° ☿ 50'38	-0.9m
	1797 Jan 31 20:15	0° ☿			1798 Jan 03 13:25	0° ☿	
retrograde	1797 Feb 03 16:09	0° ☿ 42'45		evening max el	1798 Jan 11 15:09	10° ☿ 37'25	18°52'45
	1797 Feb 06 11:30	30° ☿		asc. node	1798 Jan 13 22:39	12° ☿ 41'14	
evening set	1797 Feb 06 15:55	29° ☿ 54'18		retrograde	1798 Jan 18 10:06	14° ☿ 27'00	
inferior conj	1797 Feb 12 14:56	24° ☿ 28'11	3°42'42	evening set	1798 Jan 21 15:47	13° ☿ 26'43	
minimum elong	1797 Feb 12 14:07	24° ☿ 30'29	3°42'39	inferior conj	1798 Jan 27 07:55	7° ☿ 43'29	3°28'13
min. Earth dist.	1797 Feb 14 22:44	21° ☿ 49'42	0.63930 AU	minimum elong	1798 Jan 27 05:54	7° ☿ 49'45	3°27'55
morning rise	1797 Feb 18 11:38	18° ☿ 22'13		min. Earth dist.	1798 Jan 29 00:20	5° ☿ 38'16	0.65482 AU
direct	1797 Feb 25 09:16	15° ☿ 34'22		morning rise	1798 Feb 01 19:39	1° ☿ 32'49	
desc. node	1797 Mar 06 11:53	19° ☿ 23'22			1798 Feb 03 21:52	30° ☿	
morning max el	1797 Mar 11 02:12	23° ☿ 27'58	27°34'32	direct	1798 Feb 08 09:53	28° ☿ 41'13	
	1797 Mar 16 22:29	0° ☿			1798 Feb 13 08:04	0° ☿	
	1797 Apr 05 22:49	0° ☿		desc. node	1798 Feb 21 08:56	6° ☿ 15'09	
morning set	1797 Apr 14 23:50	16° ☿ 51'33		morning max el	1798 Feb 21 12:03	6° ☿ 22'59	26°47'27
max. Earth dist.	1797 Apr 20 00:41	27° ☿ 07'21	1.33236 AU		1798 Mar 11 17:02	0° ☿	
	1797 Apr 21 09:30	0° ☿		morning set	1798 Mar 29 09:05	0° ☿ 15'24	
					1798 Mar 29 05:51	0° ☿	
superior conj	1797 Apr 22 21:09	3° ☿ 09'31	-0°22'33	max. Earth dist.	1798 Apr 02 17:03	8° ☿ 43'37	1.34405 AU
minimum elong	1797 Apr 22 22:16	3° ☿ 15'29	0°22'18				
asc. node	1797 Apr 25 00:55	7° ☿ 47'06		superior conj	1798 Apr 06 22:02	17° ☿ 19'09	-0°50'26
evening rise	1797 Apr 30 00:36	18° ☿ 27'20		minimum elong	1798 Apr 07 00:35	17° ☿ 32'20	0°49'56
	1797 May 05 17:32	0° ☿		asc. node	1798 Apr 11 21:58	27° ☿ 48'19	
evening max el	1797 May 22 03:31	24° ☿ 05'29	22°44'57		1798 Apr 12 23:02	0° ☿	
	1797 May 31 04:31	0° ☿		evening rise	1798 Apr 14 10:15	3° ☿ 03'53	

	1798 Apr 29 18:29	0°♂		evening rise	1799 Mar 29 15:54	17°♂23'04	
evening max el	1798 May 04 00:48	4°♂49'30	21°14'18	asc. node	1799 Mar 29 19:00	17°♂38'46	
retrograde	1798 May 15 23:22	10°♂39'05			1799 Apr 05 03:10	0°♂	
evening set	1798 May 18 06:08	10°♂27'04		evening max el	1799 Apr 16 09:27	16°♂08'58	19°58'28
desc. node	1798 May 20 08:09	9°♂56'25		retrograde	1799 Apr 26 14:30	21°♂04'44	
inferior conj	1798 May 27 15:20	6°♂28'01	-2°05'29	evening set	1799 Apr 28 15:12	20°♂53'55	
minimum elong	1798 May 27 09:33	6°♂36'10	2°03'30	desc. node	1799 May 07 05:10	17°♂06'04	
min. Earth dist.	1798 May 28 00:08	6°♂15'38	0.54907 AU	inferior conj	1799 May 07 13:06	16°♂54'05	-0°05'45
morning rise	1798 Jun 05 13:14	2°♂28'05		minimum elong	1799 May 07 12:50	16°♂54'29	0°05'40
direct	1798 Jun 08 20:16	2°♂04'34		transit middle	1799 May 07 12:50	16°♂54'29	0°05'40
morning max el	1798 Jun 21 13:28	8°♂07'26	22°24'12	transit begin	1799 May 07 09:07	17°♂00'07	
	1798 Jul 06 23:48	0°♂		transit end	1799 May 07 16:34	16°♂48'50	
asc. node	1798 Jul 08 21:12	3°♂36'08		min. Earth dist.	1799 May 09 13:42	15°♂40'40	0.55406 AU
morning set	1798 Jul 13 08:49	12°♂41'17		morning rise	1799 May 16 08:24	12°♂28'20	
				direct	1799 May 20 10:35	11°♂51'34	
superior conj	1798 Jul 20 13:01	27°♂55'32	1°36'18	morning max el	1799 Jun 03 05:18	18°♂41'09	24°06'04
minimum elong	1798 Jul 20 11:04	27°♂45'13	1°36'08		1799 Jun 12 14:29	0°♂	
	1798 Jul 21 12:37	0°♂		asc. node	1799 Jun 25 18:15	23°♂16'01	
max. Earth dist.	1798 Jul 23 17:23	4°♂34'55	1.34288 AU	morning set	1799 Jun 27 20:31	27°♂37'26	
evening rise	1798 Jul 28 11:06	14°♂06'14			1799 Jun 28 23:24	0°♂	
	1798 Aug 06 02:37	0°♂					
desc. node	1798 Aug 16 07:30	16°♂16'56		superior conj	1799 Jul 04 20:50	12°♂44'30	1°23'01
	1798 Aug 26 15:48	0°♂		minimum elong	1799 Jul 04 18:26	12°♂31'34	1°22'42
evening max el	1798 Sep 01 05:46	5°♂58'14	27°06'48	max. Earth dist.	1799 Jul 06 19:24	16°♂55'13	1.33202 AU
retrograde	1798 Sep 14 13:08	13°♂16'27		evening rise	1799 Jul 12 06:00	28°♂16'15	
evening set	1798 Sep 21 10:38	10°♂32'30			1799 Jul 13 02:39	0°♂	
min. Earth dist.	1798 Sep 25 07:19	6°♂47'19	0.65159 AU		1799 Jul 30 07:01	0°♂	
inferior conj	1798 Sep 27 08:54	4°♂27'38	-2°27'07	desc. node	1799 Aug 03 04:31	5°♂35'43	
minimum elong	1798 Sep 27 12:48	4°♂16'39	2°25'40	evening max el	1799 Aug 14 16:51	19°♂09'46	27°25'47
	1798 Oct 01 20:53	30°♂♂		retrograde	1799 Aug 28 08:18	26°♂27'31	
morning rise	1798 Oct 03 15:47	28°♂53'00		evening set	1799 Sep 04 12:36	23°♂48'56	
asc. node	1798 Oct 04 20:22	28°♂25'53		min. Earth dist.	1799 Sep 08 04:10	20°♂37'09	0.63626 AU
direct	1798 Oct 06 09:05	28°♂13'15		inferior conj	1799 Sep 10 18:24	17°♂58'49	-3°22'56
	1798 Oct 10 22:24	0°♂		minimum elong	1799 Sep 10 23:27	17°♂45'56	3°21'22
morning max el	1798 Oct 12 21:32	1°♂43'49	18°08'40	morning rise	1799 Sep 17 11:28	12°♂40'39	
morning set	1798 Oct 31 04:24	29°♂09'21		direct	1799 Sep 19 23:57	12°♂09'38	
	1798 Oct 31 16:40	0°♂		asc. node	1799 Sep 21 17:25	12°♂24'29	
desc. node	1798 Nov 12 06:47	18°♂51'08		morning max el	1799 Sep 26 13:39	15°♂35'17	17°52'54
					1799 Oct 06 16:47	0°♂	
superior conj	1798 Nov 14 13:34	22°♂29'18	-0°15'16	morning set	1799 Oct 13 05:36	11°♂14'08	
minimum elong	1798 Nov 14 11:38	22°♂21'36	0°15'00		1799 Oct 24 06:14	0°♂	
behind sun begin	1798 Nov 14 07:27	22°♂04'58					
behind sun end	1798 Nov 14 15:49	22°♂38'14		superior conj	1799 Oct 25 13:45	2°♂10'11	0°30'44
max. Earth dist.	1798 Nov 17 20:11	27°♂40'09	1.44972 AU	minimum elong	1799 Oct 25 16:54	2°♂23'10	0°30'17
	1798 Nov 19 07:45	0°♂		desc. node	1799 Oct 30 03:48	9°♂38'01	
evening rise	1798 Nov 30 23:42	18°♂11'00		max. Earth dist.	1799 Oct 31 13:38	11°♂53'42	1.44133 AU
	1798 Dec 08 15:10	0°♂		evening rise	1799 Nov 10 08:36	27°♂14'39	
greatest brilliancy	1798 Dec 13 19:59	7°♂55'01	-0.7m		1799 Nov 12 03:39	0°♂	
evening max el	1798 Dec 25 22:03	24°♂06'39	19°40'48		1799 Dec 02 15:20	0°♂	
asc. node	1798 Dec 31 19:39	28°♂11'29		evening max el	1799 Dec 08 23:44	7°♂37'04	20°43'09
retrograde	1799 Jan 02 07:12	28°♂23'35		retrograde	1799 Dec 17 05:00	12°♂28'30	
evening set	1799 Jan 05 20:16	27°♂10'04		asc. node	1799 Dec 18 16:40	12°♂16'09	
inferior conj	1799 Jan 11 07:57	21°♂12'12	3°01'45	evening set	1799 Dec 21 03:16	11°♂00'05	
minimum elong	1799 Jan 11 05:22	21°♂20'43	3°01'09	inferior conj	1799 Dec 26 12:28	4°♂50'26	2°26'06
min. Earth dist.	1799 Jan 12 09:58	19°♂46'31	0.66634 AU	minimum elong	1799 Dec 26 09:53	4°♂59'15	2°25'18
morning rise	1799 Jan 16 14:14	14°♂59'22		min. Earth dist.	1799 Dec 27 01:35	4°♂05'37	0.67382 AU
direct	1799 Jan 22 16:29	12°♂16'34			1799 Dec 30 07:18	30°♂♂	
morning max el	1799 Feb 03 21:05	19°♂31'59	25°36'35	morning rise	1799 Dec 31 16:20	28°♂37'19	
desc. node	1799 Feb 08 05:59	24°♂19'38		direct	1800 Jan 06 04:05	26°♂12'04	
	1799 Feb 12 19:38	0°♂			1800 Jan 14 05:06	0°♂	
	1799 Mar 04 19:27	0°♂		morning max el	1800 Jan 17 05:24	2°♂47'37	24°12'03
morning set	1799 Mar 12 03:17	12°♂50'31		desc. node	1800 Jan 26 03:01	13°♂15'43	
max. Earth dist.	1799 Mar 15 21:31	19°♂50'26	1.36033 AU		1800 Feb 06 23:19	0°♂	
	1799 Mar 21 02:41	0°♂		morning set	1800 Feb 22 00:44	24°♂21'23	
					1800 Feb 25 05:39	0°♂	
superior conj	1799 Mar 21 14:40	0°♂59'52	-1°17'18	max. Earth dist.	1800 Feb 25 18:03	0°♂55'34	1.38027 AU
minimum elong	1799 Mar 21 18:26	1°♂18'39	1°16'43				

superior conj	1800 Mar 04 19:40	14°  02'45	-1°40'56	superior conj	1801 Feb 15 08:29	26°  15'08	-1°58'12
minimum elong	1800 Mar 04 23:55	14°  23'05	1°40'29	minimum elong	1801 Feb 15 11:42	26°  29'47	1°58'01
	1800 Mar 12 23:16	0° 			1801 Feb 17 09:35	0° 	
evening rise	1800 Mar 13 15:09	1°  18'22		evening rise	1801 Feb 25 04:52	14°  40'49	
asc. node	1800 Mar 16 16:01	7°  13'54		asc. node	1801 Mar 03 13:03	26°  27'04	
evening max el	1800 Mar 30 05:20	28°  08'17	19°01'45		1801 Mar 05 14:19	0° 	
	1800 Apr 01 10:05	0° 		evening max el	1801 Mar 13 09:52	10°  40'34	18°25'10
retrograde	1800 Apr 07 19:41	2°  18'24		retrograde	1801 Mar 20 19:58	14°  20'27	
evening set	1800 Apr 10 00:01	2°  03'26		evening set	1801 Mar 23 06:04	13°  58'11	
	1800 Apr 14 19:27	30° 		inferior conj	1801 Mar 30 14:08	9°  24'01	2°50'56
inferior conj	1800 Apr 18 03:02	27°  49'08	1°38'46	minimum elong	1801 Mar 30 17:58	9°  16'11	2°50'04
minimum elong	1800 Apr 18 06:32	27°  43'01	1°37'40	min. Earth dist.	1801 Apr 03 00:40	6°  36'51	0.58688 AU
min. Earth dist.	1800 Apr 21 05:13	25°  40'46	0.56765 AU	morning rise	1801 Apr 07 03:06	3°  54'03	
desc. node	1800 Apr 24 02:12	23°  55'13		desc. node	1801 Apr 10 23:14	2°  29'57	
morning rise	1800 Apr 26 10:02	22°  49'16		direct	1801 Apr 13 05:36	2°  16'27	
direct	1800 May 01 13:17	21°  47'05		morning max el	1801 Apr 27 14:38	9°  58'38	26°58'16
morning max el	1800 May 15 19:54	29°  09'12	25°42'35		1801 May 12 23:22	0° 	
	1800 May 16 16:30	0° 		morning set	1801 May 27 17:56	27°  21'47	
	1800 Jun 06 02:16	0° 			1801 May 28 23:55	0° 	
morning set	1800 Jun 12 08:07	12°  23'02		asc. node	1801 May 30 12:21	3°  15'07	
asc. node	1800 Jun 12 15:18	13° 					
				superior conj	1801 Jun 03 19:20	12°  23'02	0°44'00
superior conj	1800 Jun 19 07:33	27°  40'56	1°05'20	minimum elong	1801 Jun 03 17:32	12°  28'09	0°43'39
minimum elong	1800 Jun 19 05:14	27°  28'14	1°04'56	max. Earth dist.	1801 Jun 03 16:24	12°  21'52	1.32212 AU
max. Earth dist.	1800 Jun 20 04:17	29°  34'26	1.32516 AU	evening rise	1801 Jun 10 16:37	27°  23'43	
	1800 Jun 20 08:57	0° 			1801 Jun 11 20:27	0° 	
evening rise	1800 Jun 26 08:44	12°  28'46			1801 Jun 28 18:30	0° 	
	1800 Jul 05 05:46	0° 		desc. node	1801 Jul 07 22:33	11°  23'18	
desc. node	1800 Jul 21 01:31	24°  07'42		evening max el	1801 Jul 10 01:24	13°  41'01	26°27'34
	1800 Jul 26 04:47	0° 		retrograde	1801 Jul 24 00:56	20°  53'29	
evening max el	1800 Jul 28 00:17	1°  47'48	27°13'14	evening set	1801 Jul 30 15:52	19°  03'35	
retrograde	1800 Aug 10 20:32	9°  02'39		min. Earth dist.	1801 Aug 03 14:34	16°  27'33	0.59732 AU
evening set	1800 Aug 17 23:53	6°  41'57		inferior conj	1801 Aug 06 22:06	13°  51'19	-4°46'47
min. Earth dist.	1800 Aug 21 14:26	3°  55'29	0.61781 AU	minimum elong	1801 Aug 07 01:26	13°  44'43	4°46'27
inferior conj	1800 Aug 24 15:59	1°  09'49	-4°11'55	morning rise	1801 Aug 14 13:04	9°  15'50	
minimum elong	1800 Aug 24 21:09	0°  58'07	4°10'47	direct	1801 Aug 16 23:51	8°  54'18	
	1800 Aug 25 23:19	30° 		morning max el	1801 Aug 24 15:01	12°  36'02	18°17'44
morning rise	1800 Aug 31 19:57	26°  01'41		asc. node	1801 Aug 26 11:33	14°  34'25	
direct	1800 Sep 03 06:20	25°  46'30			1801 Sep 05 08:00	0° 	
asc. node	1800 Sep 08 14:29	27°  51'58		morning set	1801 Sep 09 13:56	7°  58'04	
morning max el	1800 Sep 10 04:31	29°  15'23	17°55'31				
	1800 Sep 10 21:58	0° 		superior conj	1801 Sep 18 21:12	25°  25'51	1°30'10
morning set	1800 Sep 26 02:38	24°  15'37		minimum elong	1801 Sep 19 00:46	25°  42'06	1°29'51
	1800 Sep 29 06:30	0° 			1801 Sep 21 09:55	0° 	
				max. Earth dist.	1801 Sep 26 10:56	8°  48'42	1.40804 AU
superior conj	1800 Oct 06 17:07	13°  41'29	1°06'33	evening rise	1801 Oct 01 04:04	16°  42'09	
minimum elong	1800 Oct 06 21:44	13°  31'26	1°05'59	desc. node	1801 Oct 03 21:52	21°  08'57	
max. Earth dist.	1800 Oct 14 03:10	25°  41'48	1.42682 AU		1801 Oct 09 13:20	0° 	
	1800 Oct 16 18:37	0° 			1801 Oct 31 04:27	0° 	
desc. node	1800 Oct 17 00:49	0° 		evening max el	1801 Nov 04 10:59	4°  41'16	23°15'28
evening rise	1800 Oct 20 21:09	6°  32'31		retrograde	1801 Nov 14 19:47	10°  49'52	
	1800 Nov 05 10:48	0° 		evening set	1801 Nov 19 17:46	8°  48'08	
evening max el	1800 Nov 21 19:44	21°  48'02	21°56'16	asc. node	1801 Nov 22 10:45	5°  57'46	
retrograde	1800 Dec 01 01:41	26°  43'11		min. Earth dist.	1801 Nov 24 17:39	2°  56'36	0.67790 AU
evening set	1800 Dec 05 10:58	24°  43'29		inferior conj	1801 Nov 25 02:48	2°  25'11	0°54'22
asc. node	1800 Dec 05 13:43	24°  47'53		minimum elong	1801 Nov 25 01:33	2°  29'27	0°53'51
inferior conj	1800 Dec 10 19:22	18°  43'51	1°43'09		1801 Nov 26 21:57	30° 	
minimum elong	1800 Dec 10 17:15	18°  42'34	1°42'21	morning rise	1801 Nov 30 09:17	26°  16'49	
min. Earth dist.	1800 Dec 10 20:55	18°  29'52	0.67759 AU	direct	1801 Dec 04 15:22	24°  36'24	
morning rise	1800 Dec 15 23:23	12°  43'33		morning max el	1801 Dec 13 06:45	29°  38'53	21°19'57
direct	1800 Dec 20 19:59	10°  42'20			1801 Dec 13 15:02	0° 	
morning max el	1800 Dec 30 15:28	16°  48'48	22°43'37	desc. node	1801 Dec 30 21:06	22°  47'03	
	1801 Jan 10 23:27	0° 			1802 Jan 04 17:14	0° 	
desc. node	1801 Jan 13 00:03	0°		morning set	1802 Jan 13 09:01	13° 21'37	
	1801 Jan 31 00:30	0°		max. Earth dist.	1802 Jan 20 15:13	25°	1.42199 AU
morning set	1801 Feb 02 19:12	4°			1802 Jan 23 15:02	0°	
max. Earth dist.	1801 Feb 07 13:59	12°	1.40177 AU				

superior conj	1802 Jan 27 23:59	7°  25'23	-2°04'42	max. Earth dist.	1803 Jan 02 23:59	8°  23'35	1.43822 AU
minimum elong	1802 Jan 27 23:46	7°  24'29	2°04'42				
evening rise	1802 Feb 08 05:23	27°  22'24		superior conj	1803 Jan 08 13:41	17°  24'23	-1°55'29
	1802 Feb 09 16:08	0°  18		minimum elong	1803 Jan 08 08:06	17°  01'34	1°55'10
asc. node	1802 Feb 18 10:06	15°  11'17			1803 Jan 16 02:58	0°  28	
evening max el	1802 Feb 24 19:54	23°  37'46	18°08'33	evening rise	1803 Jan 21 12:22	9°  14'12	
retrograde	1802 Mar 03 13:20	27°  03'17			1803 Feb 02 23:01	0°  18	
evening set	1802 Mar 06 04:56	26°  31'44		asc. node	1803 Feb 05 07:07	3°  17'22	
inferior conj	1802 Mar 12 21:15	21°  36'52	3°30'30	evening max el	1803 Feb 08 08:22	6°  51'31	18°11'18
minimum elong	1802 Mar 12 23:25	21°  31'43	3°30'14	retrograde	1803 Feb 14 19:28	10°  16'47	
min. Earth dist.	1802 Mar 16 02:43	18°  34'57	0.60828 AU	evening set	1803 Feb 17 16:14	9°  34'45	
morning rise	1802 Mar 19 16:02	15°  46'50		inferior conj	1803 Feb 23 20:36	4°  19'49	3°43'59
direct	1802 Mar 26 09:48	13°  33'20		minimum elong	1803 Feb 23 20:46	4°  19'21	3°43'59
desc. node	1802 Mar 28 20:16	13°  49'47		min. Earth dist.	1803 Feb 26 13:20	1°  27'15	0.62880 AU
morning max el	1802 Apr 09 15:36	21°  26'17	27°41'22		1803 Feb 28 00:40	30°  18	
	1802 Apr 17 02:47	0°  27		morning rise	1803 Mar 02 00:15	28°  18'16	
	1802 May 05 22:47	0°  8		direct	1803 Mar 08 23:15	25°  38'39	
morning set	1802 May 12 00:08	11°  8'57'39		desc. node	1803 Mar 15 17:18	27°  45'40	
asc. node	1802 May 17 09:24	23°  8'24'07			1803 Mar 18 22:36	0°  18	
max. Earth dist.	1802 May 18 03:55	25°  8'04'55	1.32289 AU	morning max el	1803 Mar 22 21:51	3°  34'17	27°47'19
					1803 Apr 11 14:51	0°  27	
superior conj	1802 May 19 06:29	27°  30'12	0°19'45	morning set	1803 Apr 26 00:34	26°  9'13'23	
minimum elong	1802 May 19 05:35	27°  30'25'19	0°19'34		1803 Apr 27 21:03	0°  8	
	1802 May 20 09:48	0°  22		max. Earth dist.	1803 May 01 10:59	7°  30'50	1.32765 AU
evening rise	1802 May 26 03:26	12°  22'26'35					
	1802 Jun 04 00:58	0°  28		superior conj	1803 May 03 15:15	12°  8'11'36	-0°06'42
evening max el	1802 Jun 21 19:27	24°  48'21	25°12'54	minimum elong	1803 May 03 15:34	12°  8'13'19	0°06'37
desc. node	1802 Jun 24 19:34	27°  25'31		behind sun begin	1803 May 03 10:47	11°  8'47'29	
	1802 Jun 28 17:14	0°  18		behind sun end	1803 May 03 20:21	12°  8'39'11	
retrograde	1802 Jul 05 19:38	1°  55'50		asc. node	1803 May 04 06:27	13°  33'49	
evening set	1802 Jul 11 08:35	0°  18'44'52		evening rise	1803 May 10 15:18	27°  8'18'21	
	1802 Jul 12 23:01	30°  18'30'36			1803 May 11 22:04	0°  22	
min. Earth dist.	1802 Jul 16 07:15	28°  50'03'34	0.57712 AU		1803 May 29 12:32	0°  28	
inferior conj	1802 Jul 19 09:26	25°  54'01	-4°56'16	evening max el	1803 Jun 03 09:32	5°  24'51	23°40'26
minimum elong	1802 Jul 19 08:26	25°  55'43	4°56'14	desc. node	1803 Jun 11 16:35	11°  10'14	
morning rise	1802 Jul 27 10:53	21°  40'46		retrograde	1803 Jun 17 02:04	12°  16'18	
direct	1802 Jul 30 00:14	21°  42'11'17		evening set	1803 Jun 21 03:48	11°  39'51	
morning max el	1802 Aug 07 18:00	25°  42'27'37	19°00'36	min. Earth dist.	1803 Jun 27 20:01	8°  32'09	0.56049 AU
	1802 Aug 11 17:38	0°  18		inferior conj	1803 Jun 30 00:43	7°  12'51	-4°26'13
asc. node	1802 Aug 13 08:37	2°  18'16'28		minimum elong	1803 Jun 29 18:33	7°  22'11	4°25'10
morning set	1802 Aug 24 11:12	22°  18'09'34		morning rise	1803 Jul 08 11:56	3°  16'10	
	1802 Aug 28 10:20	0°  18		direct	1803 Jul 11 05:38	2°  57'18	
				morning max el	1803 Jul 21 10:41	7°  41'13	20°04'42
superior conj	1802 Sep 01 20:18	8°  36'31	1°42'38	asc. node	1803 Jul 31 05:41	20°  44'54	
minimum elong	1802 Sep 01 21:58	8°  44'30	1°42'34		1803 Aug 05 06:41	0°  18	
max. Earth dist.	1802 Sep 08 14:33	21°  11'19	1.38756 AU	morning set	1803 Aug 08 15:21	6°  18'42'14	
evening rise	1802 Sep 12 11:05	27°  18'58'56					
	1802 Sep 13 15:18	0°  18		superior conj	1803 Aug 16 09:15	22°  18'29'12	1°45'51
desc. node	1802 Sep 20 18:54	11°  18'45'20		minimum elong	1803 Aug 16 09:07	22°  18'28'33	1°45'51
	1802 Oct 03 00:53	0°  18			1803 Aug 20 04:37	0°  18	
evening max el	1802 Oct 17 23:32	18°  18'18'08	24°34'44	max. Earth dist.	1803 Aug 21 19:40	3°  18'07'24	1.36794 AU
retrograde	1802 Oct 29 10:06	24°  58'55		evening rise	1803 Aug 25 16:37	10°  18'19'53	
evening set	1802 Nov 03 22:01	22°  18'40'40			1803 Sep 06 06:50	0°  18	
min. Earth dist.	1802 Nov 08 13:23	17°  18'22'42	0.67490 AU	desc. node	1803 Sep 07 15:56	2°  18'09'38	
inferior conj	1802 Nov 09 09:00	16°  18'17'13	0°01'02		1803 Sep 28 13:00	0°  18	
minimum elong	1802 Nov 09 08:58	16°  18'17'19	0°01'01	evening max el	1803 Sep 30 11:34	1°  18'58'09	25°46'40
transit middle	1802 Nov 09 08:58	16°  18'17'19	0°01'01	retrograde	1803 Oct 12 19:41	9°  18'00'53	
transit begin	1802 Nov 09 06:14	16°  18'26'28		evening set	1803 Oct 18 21:55	6°  18'28'18	
transit end	1802 Nov 09 11:43	16°  18'08'10		min. Earth dist.	1803 Oct 23 05:38	1°  18'45'45	0.66862 AU
asc. node	1802 Nov 09 07:48	16°  18'21'13		inferior conj	1803 Oct 24 12:10	0°  18'08'51	-0°55'32
morning rise	1802 Nov 14 20:00	10°  18'14'34		minimum elong	1803 Oct 24 13:37	0°  18'04'16	0°54'55
direct	1802 Nov 18 13:08	8°  18'55'21			1803 Oct 24 14:58	30°  18	
morning max el	1802 Nov 26 05:24	13°  18'19'07	20°07'01	asc. node	1803 Oct 27 04:51	26°  18'54'01	
	1802 Dec 09 00:29	0°  18		morning rise	1803 Oct 30 05:36	24°  18'14'39	
desc. node	1802 Dec 17 18:08	13°  18'27'04'45		direct	1803 Nov 02 11:44	23°  18'13'35	
morning set	1802 Dec 23 05:36	21°  18'29'03		morning max el	1803 Nov 09 11:38	27°  18'08'43	19°08'21
	1802 Dec 28 16:50	0°  28			1803 Nov 12 01:06	0°  18	

morning set	1803 Dec 02 09:48	0°♊07'34			1804 Nov 24 03:11	0°♊	
	1803 Dec 02 07:51	0°♊					
desc. node	1803 Dec 04 15:11	3°♊35'47		superior conj	1804 Nov 27 03:51	4°♊46'09	-0°43'29
max. Earth dist.	1803 Dec 16 15:27	22°♊24'44	1.44841 AU	minimum elong	1804 Nov 26 22:15	4°♊24'08	0°42'44
				max. Earth dist.	1804 Nov 28 10:27	6°♊46'22	1.45136 AU
superior conj	1803 Dec 19 02:39	26°♊18'33	-1°27'20	evening rise	1804 Dec 13 07:48	0°♊09'27	
minimum elong	1803 Dec 18 17:51	25°♊43'43	1°26'26		1804 Dec 13 05:24	0°♊	
	1803 Dec 21 10:28	0°♊		greatest brilliancy	1804 Dec 23 10:16	16°♊01'33	-0.8m
evening rise	1804 Jan 02 21:46	20°♊10'02			1805 Jan 02 01:05	0°♊	
	1804 Jan 08 21:19	0°♊		evening max el	1805 Jan 05 05:47	3°♊42'51	19°11'16
evening max el	1804 Jan 22 20:28	20°♊14'49	18°32'34	asc. node	1805 Jan 09 01:10	6°♊47'45	
asc. node	1804 Jan 23 04:09	20°♊34'01		retrograde	1805 Jan 12 05:51	7°♊42'56	
retrograde	1804 Jan 29 10:09	23°♊52'10		evening set	1805 Jan 15 14:33	6°♊37'01	
evening set	1804 Feb 01 12:24	22°♊58'42		inferior conj	1805 Jan 21 04:30	0°♊47'01	3°18'16
inferior conj	1804 Feb 07 08:09	17°♊25'06	3°38'12	minimum elong	1805 Jan 21 02:10	0°♊54'27	3°17'50
minimum elong	1804 Feb 07 06:45	17°♊29'15	3°38'05		1805 Jan 21 19:11	30°♊	
min. Earth dist.	1804 Feb 09 09:22	14°♊59'46	0.64645 AU	min. Earth dist.	1805 Jan 22 14:30	28°♊58'33	0.66020 AU
morning rise	1804 Feb 13 00:37	11°♊17'04		morning rise	1805 Jan 26 13:32	24°♊35'18	
direct	1804 Feb 19 19:59	8°♊25'54		direct	1805 Feb 01 23:01	21°♊46'28	
desc. node	1804 Mar 01 14:21	13°♊43'16		morning max el	1805 Feb 14 16:48	29°♊18'12	26°19'46
morning max el	1804 Mar 04 07:02	16°♊15'13	27°17'57		1805 Feb 15 09:10	0°♊	
	1804 Mar 15 16:00	0°♊		desc. node	1805 Feb 16 11:22	1°♊09'23	
	1804 Apr 03 09:19	0°♊			1805 Mar 09 12:22	0°♊	
morning set	1804 Apr 08 16:20	9°♊59'06		morning set	1805 Mar 22 19:49	23°♊04'19	
max. Earth dist.	1804 Apr 13 09:42	19°♊27'23	1.33680 AU		1805 Mar 26 10:46	0°♊	
				max. Earth dist.	1805 Mar 26 21:22	0°♊51'48	1.35051 AU
superior conj	1804 Apr 16 19:39	26°♊34'53	-0°34'22				
minimum elong	1804 Apr 16 21:22	26°♊43'59	0°34'01	superior conj	1805 Mar 31 17:24	10°♊33'33	-1°02'02
	1804 Apr 18 10:19	0°♊		minimum elong	1805 Mar 31 20:30	10°♊49'25	1°01'29
asc. node	1804 Apr 20 03:28	3°♊39'23		asc. node	1805 Apr 07 00:30	23°♊36'53	
evening rise	1804 Apr 24 02:18	12°♊02'32		evening rise	1805 Apr 08 10:35	26°♊33'10	
	1804 May 03 08:36	0°♊			1805 Apr 10 03:02	0°♊	
evening max el	1804 May 15 02:07	15°♊57'13	22°05'02	evening max el	1805 Apr 27 03:51	26°♊54'23	20°39'44
retrograde	1804 May 27 20:05	22°♊14'15			1805 Apr 30 23:50	0°♊	
desc. node	1804 May 28 13:36	22°♊13'02		retrograde	1805 May 08 09:07	2°♊21'25	
evening set	1804 May 30 14:27	21°♊57'16		evening set	1805 May 10 11:38	2°♊10'40	
inferior conj	1804 Jun 08 23:36	17°♊51'24	-3°08'17	desc. node	1805 May 15 10:35	0°♊31'27	
minimum elong	1804 Jun 08 15:56	18°♊02'10	3°06'01		1805 May 16 12:01	30°♊	
min. Earth dist.	1804 Jun 08 07:36	18°♊13'50	0.55071 AU	inferior conj	1805 May 19 17:29	28°♊12'52	-1°14'46
morning rise	1804 Jun 17 19:01	13°♊58'31		minimum elong	1805 May 19 13:56	28°♊17'57	1°13'29
direct	1804 Jun 20 19:41	13°♊38'04		min. Earth dist.	1805 May 20 20:06	27°♊34'40	0.55008 AU
morning max el	1804 Jul 02 15:49	19°♊10'11	21°28'48	morning rise	1805 May 28 15:34	24°♊04'09	
	1804 Jul 11 09:23	0°♊		direct	1805 Jun 01 05:32	23°♊36'32	
asc. node	1804 Jul 17 02:44	9°♊47'42			1805 Jun 14 11:24	0°♊	
morning set	1804 Jul 22 23:54	21°♊28'34		morning max el	1805 Jun 14 11:20	29°♊59'52	23°07'14
	1804 Jul 27 01:29	0°♊		asc. node	1805 Jul 03 23:46	29°♊16'09	
					1805 Jul 04 08:32	0°♊	
superior conj	1804 Jul 30 07:53	6°♊51'00	1°41'34	morning set	1805 Jul 07 10:58	6°♊22'49	
minimum elong	1804 Jul 30 06:27	6°♊43'28	1°41'29				
max. Earth dist.	1804 Aug 03 07:30	15°♊00'22	1.35101 AU	superior conj	1805 Jul 14 13:06	21°♊32'34	1°31'15
evening rise	1804 Aug 07 16:05	23°♊32'30		minimum elong	1805 Jul 14 10:54	21°♊20'48	1°31'01
	1804 Aug 11 03:15	0°♊		max. Earth dist.	1805 Jul 17 04:26	27°♊08'20	1.33778 AU
desc. node	1804 Aug 24 12:58	22°♊15'21			1805 Jul 18 13:21	0°♊	
	1804 Aug 29 21:52	0°♊		evening rise	1805 Jul 22 05:01	7°♊24'39	
evening max el	1804 Sep 11 23:49	15°♊34'56	26°43'41		1805 Aug 03 16:07	0°♊	
retrograde	1804 Sep 24 23:59	22°♊49'30		desc. node	1805 Aug 11 09:58	11°♊54'19	
evening set	1804 Oct 01 15:26	20°♊07'25		evening max el	1805 Aug 25 11:36	28°♊58'24	27°18'22
min. Earth dist.	1804 Oct 05 15:56	16°♊01'35	0.65885 AU		1805 Aug 26 14:08	0°♊	
inferior conj	1804 Oct 07 10:21	13°♊56'15	-1°53'44	retrograde	1805 Sep 07 22:39	6°♊17'00	
minimum elong	1804 Oct 07 13:22	13°♊47'18	1°52'31	evening set	1805 Sep 14 23:59	3°♊33'35	
morning rise	1804 Oct 13 11:54	8°♊13'42			1805 Sep 18 19:27	30°♊	
asc. node	1804 Oct 13 01:54	8°♊27'55		min. Earth dist.	1805 Sep 18 18:06	0°♊03'35	0.64550 AU
direct	1804 Oct 16 09:16	7°♊27'11		inferior conj	1805 Sep 21 01:12	27°♊34'44	-2°51'20
morning max el	1804 Oct 22 23:48	11°♊03'47	18°25'40	minimum elong	1805 Sep 21 05:40	27°♊22'39	2°49'47
	1804 Nov 05 09:16	0°♊		morning rise	1805 Sep 27 12:20	22°♊07'00	
morning set	1804 Nov 11 16:01	10°♊06'54		asc. node	1805 Sep 29 22:57	21°♊31'33	
desc. node	1804 Nov 20 12:13	24°♊15'56		direct	1805 Sep 30 03:17	21°♊31'23	

morning max el	1805 Oct 06 15:22	24° \mathbb{M} 58'37	17°59'51	asc. node	1806 Sep 16 20:01	6° \mathbb{M} 09'39	
	1805 Oct 10 18:57	0° \mathbb{L}		morning max el	1806 Sep 20 07:26	8° \mathbb{M} 46'55	17°51'45
morning set	1805 Oct 24 02:52	21° \mathbb{L} 29'54			1806 Oct 04 06:49	0° \mathbb{L}	
	1805 Oct 29 04:33	0° \mathbb{M}		morning set	1806 Oct 06 13:19	4° \mathbb{L} 01'05	
superior conj	1805 Nov 06 14:50	13° \mathbb{M} 47'16	0°05'11	superior conj	1806 Oct 18 02:33	24° \mathbb{L} 02'40	0°47'23
minimum elong	1805 Nov 06 15:27	13° \mathbb{M} 49'43	0°05'06	minimum elong	1806 Oct 18 06:45	24° \mathbb{L} 20'17	0°46'49
behind sun begin	1805 Nov 06 05:29	13° \mathbb{M} 09'37			1806 Oct 21 16:33	0° \mathbb{M}	
behind sun end	1805 Nov 07 01:25	14° \mathbb{M} 29'46		max. Earth dist.	1806 Oct 24 20:46	5° \mathbb{M} 10'22	1.43574 AU
desc. node	1805 Nov 07 09:15	15° \mathbb{M} 01'11		desc. node	1806 Oct 25 06:17	5° \mathbb{M} 48'45	
max. Earth dist.	1805 Nov 11 05:13	21° \mathbb{M} 07'27	1.44690 AU	evening rise	1806 Nov 02 06:39	18° \mathbb{M} 28'01	
	1805 Nov 16 20:51	0° \mathbb{X}			1806 Nov 09 20:03	0° \mathbb{X}	
evening rise	1805 Nov 22 22:23	9° \mathbb{X} 24'00			1806 Dec 01 17:32	0° \mathbb{Z}	
	1805 Dec 06 11:48	0° \mathbb{Z}		evening max el	1806 Dec 02 09:40	0° \mathbb{Z} 42'06	21°13'12
greatest brilliancy	1805 Dec 07 04:27	1° \mathbb{Z} 01'32	-0.6m	retrograde	1806 Dec 11 01:14	5° \mathbb{Z} 50'15	
evening max el	1805 Dec 19 10:29	17° \mathbb{Z} 11'57	20°05'44	asc. node	1806 Dec 13 19:15	5° \mathbb{Z} 08'09	
asc. node	1805 Dec 26 22:12	21° \mathbb{Z} 43'01		evening set	1806 Dec 15 03:50	4° \mathbb{Z} 15'15	
retrograde	1805 Dec 27 03:38	21° \mathbb{Z} 43'18			1806 Dec 19 01:39	30° \mathbb{R} \mathbb{X}	
evening set	1805 Dec 30 20:20	20° \mathbb{Z} 23'36		inferior conj	1806 Dec 20 12:31	28° \mathbb{X} 01'27	2°08'42
inferior conj	1806 Jan 05 06:43	14° \mathbb{Z} 20'04	2°47'39	minimum elong	1806 Dec 20 10:05	28° \mathbb{X} 09'52	2°07'52
minimum elong	1806 Jan 05 04:04	14° \mathbb{Z} 28'58	2°46'56	min. Earth dist.	1806 Dec 20 20:38	27° \mathbb{X} 33'28	0.67582 AU
min. Earth dist.	1806 Jan 06 03:00	13° \mathbb{Z} 11'58	0.66991 AU	morning rise	1806 Dec 25 16:07	21° \mathbb{X} 48'26	
morning rise	1806 Jan 10 11:37	8° \mathbb{Z} 06'45		direct	1806 Dec 30 21:23	19° \mathbb{X} 32'05	
direct	1806 Jan 16 07:43	5° \mathbb{Z} 30'49		morning max el	1807 Jan 10 10:15	25° \mathbb{X} 48'44	23°34'16
morning max el	1806 Jan 28 01:37	12° \mathbb{Z} 31'15	25°01'48		1807 Jan 14 06:01	0° \mathbb{Z}	
desc. node	1806 Feb 03 08:25	19° \mathbb{Z} 37'48		desc. node	1807 Jan 21 05:29	8° \mathbb{Z} 50'41	
	1806 Feb 11 03:55	0° \mathbb{X}			1807 Feb 04 17:20	0° \mathbb{X}	
	1806 Mar 02 06:29	0° \mathbb{X}		morning set	1807 Feb 14 16:37	16° \mathbb{X} 12'14	
morning set	1806 Mar 05 05:59	5° \mathbb{X} 14'16		max. Earth dist.	1807 Feb 18 16:34	23° \mathbb{X} 06'09	1.38935 AU
max. Earth dist.	1806 Mar 08 21:54	11° \mathbb{X} 54'17	1.36846 AU		1807 Feb 22 13:13	0° \mathbb{X}	
superior conj	1806 Mar 15 05:31	23° \mathbb{X} 58'58	-1°27'53	superior conj	1807 Feb 26 04:13	6° \mathbb{X} 41'27	-1°49'18
minimum elong	1806 Mar 15 09:36	24° \mathbb{X} 19'05	1°27'20	minimum elong	1807 Feb 26 08:16	7° \mathbb{X} 00'28	1°48'56
	1806 Mar 18 06:13	0° \mathbb{Y}		evening rise	1807 Mar 07 09:25	24° \mathbb{X} 24'46	
evening rise	1806 Mar 23 13:50	10° \mathbb{Y} 42'58			1807 Mar 10 07:00	0° \mathbb{Y}	
asc. node	1806 Mar 24 21:32	13° \mathbb{Y} 21'23		asc. node	1807 Mar 11 18:34	2° \mathbb{Y} 47'43	
	1806 Apr 03 01:13	0° \mathbb{Z}		evening max el	1807 Mar 23 17:25	20° \mathbb{Y} 45'15	18°43'47
evening max el	1806 Apr 09 17:24	8° \mathbb{Z} 30'41	19°31'50	retrograde	1807 Mar 31 18:20	24° \mathbb{Y} 40'12	
retrograde	1806 Apr 19 05:23	13° \mathbb{Z} 05'49		evening set	1807 Apr 03 01:03	24° \mathbb{Y} 22'30	
evening set	1806 Apr 21 06:43	12° \mathbb{Z} 53'52		inferior conj	1807 Apr 10 19:47	20° \mathbb{Y} 00'28	2°13'37
inferior conj	1806 Apr 29 21:01	8° \mathbb{Z} 48'59	0°41'54	minimum elong	1807 Apr 10 23:48	19° \mathbb{Y} 52'59	2°12'29
minimum elong	1806 Apr 29 22:46	8° \mathbb{Z} 46'10	0°41'18	min. Earth dist.	1807 Apr 14 03:44	17° \mathbb{Y} 32'42	0.57533 AU
desc. node	1806 May 02 07:35	7° \mathbb{Z} 15'24		morning rise	1807 Apr 18 19:26	14° \mathbb{Y} 46'39	
min. Earth dist.	1806 May 02 10:33	7° \mathbb{Z} 10'46	0.55891 AU	desc. node	1807 Apr 19 04:38	14° \mathbb{Y} 36'37	
morning rise	1806 May 08 12:05	4° \mathbb{Z} 08'30		direct	1807 Apr 24 09:26	13° \mathbb{Y} 29'46	
direct	1806 May 13 00:21	3° \mathbb{Z} 22'35		morning max el	1807 May 08 17:52	21° \mathbb{Y} 02'25	26°18'05
morning max el	1806 May 27 02:06	10° \mathbb{Z} 28'28	24°48'44		1807 May 16 12:15	0° \mathbb{Z}	
	1806 Jun 10 19:11	0° \mathbb{I}			1807 Jun 03 09:31	0° \mathbb{I}	
asc. node	1806 Jun 20 20:50	19° \mathbb{I} 03'12		morning set	1807 Jun 06 09:54	6° \mathbb{I} 12'55	
morning set	1806 Jun 21 22:52	21° \mathbb{I} 19'39		asc. node	1807 Jun 07 17:51	9° \mathbb{I} 02'31	
	1806 Jun 25 23:39	0° \mathbb{L}		superior conj	1807 Jun 13 09:50	21° \mathbb{I} 23'39	0°56'42
superior conj	1806 Jun 28 22:26	6° \mathbb{L} 25'57	1°16'00	minimum elong	1807 Jun 13 07:42	21° \mathbb{I} 11'51	0°56'18
minimum elong	1806 Jun 28 20:01	6° \mathbb{L} 12'48	1°15'39	max. Earth dist.	1807 Jun 13 20:09	22° \mathbb{I} 20'20	1.32337 AU
max. Earth dist.	1806 Jun 30 09:36	9° \mathbb{L} 36'55	1.32857 AU		1807 Jun 17 08:25	0° \mathbb{L}	
evening rise	1806 Jul 06 03:38	21° \mathbb{L} 45'33		evening rise	1807 Jun 20 08:52	6° \mathbb{L} 24'54	
	1806 Jul 10 07:16	0° \mathbb{O}			1807 Jul 02 20:40	0° \mathbb{O}	
	1806 Jul 28 14:23	0° \mathbb{M}		desc. node	1807 Jul 16 03:59	19° \mathbb{O} 02'17	
desc. node	1806 Jul 29 06:57	0° \mathbb{M} 55'29		evening max el	1807 Jul 21 02:25	24° \mathbb{O} 17'28	26°57'53
evening max el	1806 Aug 07 21:17	11° \mathbb{M} 56'56	27°24'28		1807 Jul 28 22:24	0° \mathbb{M}	
retrograde	1806 Aug 21 15:18	19° \mathbb{M} 14'30		retrograde	1807 Aug 04 00:39	1° \mathbb{M} 31'30	
evening set	1806 Aug 28 20:19	16° \mathbb{M} 41'35			1807 Aug 09 21:25	30° \mathbb{R} \mathbb{O}	
min. Earth dist.	1806 Sep 01 10:34	13° \mathbb{M} 42'04	0.62869 AU	evening set	1807 Aug 11 00:02	29° \mathbb{O} 22'43	
inferior conj	1806 Sep 04 06:04	10° \mathbb{M} 58'34	-3°44'55	min. Earth dist.	1807 Aug 14 16:38	26° \mathbb{O} 42'31	0.60918 AU
minimum elong	1806 Sep 04 11:20	10° \mathbb{M} 45'45	3°43'29	inferior conj	1807 Aug 17 21:33	23° \mathbb{O} 58'35	-4°29'02
morning rise	1806 Sep 11 03:46	5° \mathbb{M} 48'49		minimum elong	1807 Aug 18 02:15	23° \mathbb{O} 48'32	4°28'14
direct	1806 Sep 13 14:54	5° \mathbb{M} 20'45		morning rise	1807 Aug 25 06:14	19° \mathbb{O} 09'39	

















































































































































































































direct	1807 Aug 27 16:21	18° Ω 46'20		direct	1808 Aug 09 03:20	1° Ω 38'10	
asc. node	1807 Sep 03 17:05	22° Ω 10'49		morning max el	1808 Aug 17 04:26	5° Ω 28'47	18°33'16
morning max el	1807 Sep 03 20:51	22° Ω 19'51	18°02'27	asc. node	1808 Aug 20 14:08	9° Ω 20'08	
	1807 Sep 09 20:02	0° Π			1808 Sep 01 16:56	0° Π	
morning set	1807 Sep 19 17:04	17° Π 21'44		morning set	1808 Sep 02 09:03	1° Π 17'45	
	1807 Sep 26 13:53	0° Ω					
superior conj	1807 Sep 29 17:02	5° Ω 36'25	1°18'01	superior conj	1808 Sep 11 05:51	18° Π 16'15	1°36'43
minimum elong	1807 Sep 29 21:24	5° Ω 55'44	1°17'33	minimum elong	1808 Sep 11 08:39	18° Π 29'16	1°36'31
max. Earth dist.	1807 Oct 07 07:35	18° Ω 40'52	1.41924 AU		1808 Sep 17 17:06	0° Ω	
desc. node	1807 Oct 12 03:20	26° Ω 34'50		max. Earth dist.	1808 Sep 18 13:38	1° Ω 29'55	1.39948 AU
evening rise	1807 Oct 13 01:44	28° Ω 04'39		evening rise	1808 Sep 22 18:46	8° Ω 42'11	
	1807 Oct 14 06:43	0° Π		desc. node	1808 Sep 28 00:21	17° Ω 15'48	
	1807 Nov 03 12:49	0° \mathcal{A}			1808 Oct 06 06:51	0° Π	
evening max el	1807 Nov 15 03:34	14° \mathcal{A} 14'04	22°29'38	evening max el	1808 Oct 27 17:31	27° Π 48'55	23°49'37
retrograde	1807 Nov 24 20:53	20° \mathcal{A} 00'41			1808 Oct 30 01:40	0° \mathcal{A}	
evening set	1807 Nov 29 11:21	18° \mathcal{A} 09'00		retrograde	1808 Nov 07 13:20	4° \mathcal{A} 11'26	
asc. node	1807 Nov 30 16:18	17° \mathcal{A} 02'05		evening set	1808 Nov 12 17:15	2° \mathcal{A} 02'29	
inferior conj	1807 Dec 04 19:52	11° \mathcal{A} 48'30	1°23'07		1808 Nov 14 18:04	30° $\mathcal{R}\Pi$	
minimum elong	1807 Dec 04 18:05	11° \mathcal{A} 54'42	1°22'24	asc. node	1808 Nov 16 13:21	27° Π 45'45	
min. Earth dist.	1807 Dec 04 16:54	11° \mathcal{A} 58'48	0.67815 AU	min. Earth dist.	1808 Nov 17 13:23	26° Π 25'14	0.67709 AU
morning rise	1807 Dec 10 00:40	5° \mathcal{A} 37'52		inferior conj	1808 Nov 18 02:58	25° Π 39'03	0°32'13
direct	1807 Dec 14 15:02	3° \mathcal{A} 44'08		minimum elong	1808 Nov 18 02:12	25° Π 41'38	0°31'53
morning max el	1807 Dec 23 21:56	9° \mathcal{A} 12'16	22°06'57	morning rise	1808 Nov 23 11:09	19° Π 33'00	
desc. node	1808 Jan 08 02:33	28° \mathcal{A} 35'24		direct	1808 Nov 27 11:36	18° Π 01'48	
	1808 Jan 09 02:05	0° \mathcal{B}		morning max el	1808 Dec 05 16:09	22° Π 46'04	20°47'20
morning set	1808 Jan 25 22:32	25° \mathcal{B} 46'14			1808 Dec 11 19:50	0° \mathcal{A}	
	1808 Jan 28 12:53	0° \approx		desc. node	1808 Dec 24 23:36	18° \mathcal{A} 42'50	
max. Earth dist.	1808 Jan 31 14:02	5° \approx 03'35	1.41069 AU		1809 Jan 01 10:00	0° \mathcal{B}	
				morning set	1809 Jan 04 02:31	4° \mathcal{B} 09'53	
superior conj	1808 Feb 08 08:40	18° \approx 29'16	-2°02'34	max. Earth dist.	1809 Jan 12 19:03	17° \mathcal{B} 58'06	1.42955 AU
minimum elong	1808 Feb 08 10:45	18° \approx 38'32	2°02'30				
	1808 Feb 14 16:59	0° \mathcal{H}		superior conj	1809 Jan 19 13:31	29° \mathcal{B} 09'20	-2°02'59
evening rise	1808 Feb 18 18:00	7° \mathcal{H} 30'40		minimum elong	1809 Jan 19 11:08	28° \mathcal{B} 59'15	2°02'56
asc. node	1808 Feb 26 15:37	21° \mathcal{H} 49'35			1809 Jan 20 01:33	0° \approx	
	1808 Mar 02 23:55	0° \mathcal{Y}		evening rise	1809 Jan 31 11:34	19° \approx 51'42	
evening max el	1808 Mar 06 00:48	3° \mathcal{Y} 29'50	18°15'47		1809 Feb 06 05:17	0° \mathcal{H}	
retrograde	1808 Mar 13 02:12	7° \mathcal{Y} 01'23		asc. node	1809 Feb 12 12:39	10° \mathcal{H} 18'24	
evening set	1808 Mar 15 14:54	6° \mathcal{Y} 35'11		evening max el	1809 Feb 17 12:11	16° \mathcal{H} 34'20	18°07'23
inferior conj	1808 Mar 22 15:47	1° \mathcal{Y} 52'15	3°11'21	retrograde	1809 Feb 24 01:40	19° \mathcal{H} 58'12	
minimum elong	1808 Mar 22 19:03	1° \mathcal{Y} 45'08	3°10'45	evening set	1809 Feb 26 19:32	19° \mathcal{H} 22'12	
	1808 Mar 24 19:09	30° $\mathcal{R}\mathcal{H}$		inferior conj	1809 Mar 05 06:16	14° \mathcal{H} 18'18	3°38'58
min. Earth dist.	1808 Mar 26 01:32	28° \mathcal{H} 55'50	0.59592 AU	minimum elong	1809 Mar 05 07:34	14° \mathcal{H} 15'02	3°38'52
morning rise	1808 Mar 29 20:50	26° \mathcal{H} 12'54		min. Earth dist.	1809 Mar 08 06:45	11° \mathcal{H} 18'04	0.61724 AU
direct	1808 Apr 05 07:14	24° \mathcal{H} 19'24		morning rise	1809 Mar 11 18:10	8° \mathcal{H} 22'37	
desc. node	1808 Apr 05 01:41	24° \mathcal{H} 19'33		direct	1809 Mar 18 15:15	5° \mathcal{H} 56'49	
	1808 Apr 17 08:21	0° \mathcal{Y}		desc. node	1809 Mar 22 22:44	6° \mathcal{H} 48'32	
morning max el	1808 Apr 19 15:00	2° \mathcal{Y} 06'26	27°21'01	morning max el	1809 Apr 01 18:27	13° \mathcal{H} 51'11	27°48'36
	1808 May 09 19:31	0° \mathcal{B}			1809 Apr 14 17:55	0° \mathcal{Y}	
morning set	1808 May 20 18:25	20° \mathcal{B} 57'13			1809 May 02 05:40	0° \mathcal{B}	
asc. node	1808 May 24 14:55	29° \mathcal{B} 09'26		morning set	1809 May 04 22:26	5° \mathcal{B} 24'59	
	1808 May 25 00:14	0° Π		max. Earth dist.	1809 May 10 18:53	17° \mathcal{B} 46'13	1.32446 AU
				asc. node	1809 May 11 11:57	19° \mathcal{B} 18'47	
superior conj	1808 May 27 21:35	6° Π 19'43	0°34'03				
minimum elong	1808 May 27 20:07	6° Π 11'42	0°33'45	superior conj	1809 May 12 07:53	21° \mathcal{B} 07'21	0°08'47
max. Earth dist.	1808 May 27 08:37	5° Π 08'25	1.32202 AU	minimum elong	1809 May 12 07:29	21° \mathcal{B} 05'07	0°08'42
evening rise	1808 Jun 03 18:17	21° Π 14'51		behind sun begin	1809 May 12 03:10	20° \mathcal{B} 41'37	
	1808 Jun 08 00:43	0° \mathcal{B}		behind sun end	1809 May 12 11:48	21° \mathcal{B} 28'39	
	1808 Jun 26 15:36	0° Ω			1809 May 16 09:28	0° Π	
evening max el	1808 Jul 02 00:44	5° Ω 51'36	25°58'52	evening rise	1809 May 19 05:46	6° Π 07'09	
desc. node	1808 Jul 02 00:59	5° Ω 52'10			1809 May 31 20:20	0° \mathcal{B}	
retrograde	1808 Jul 16 00:51	13° Ω 01'34		evening max el	1809 Jun 13 16:21	16° \mathcal{B} 42'11	24°34'47
evening set	1808 Jul 22 06:23	11° Ω 28'05		desc. node	1809 Jun 18 21:58	20° \mathcal{B} 54'27	
min. Earth dist.	1808 Jul 26 13:15	8° Ω 50'40	0.58861 AU	retrograde	1809 Jun 27 14:14	23° \mathcal{B} 44'33	
inferior conj	1808 Jul 29 20:05	6° Ω 24'56	-4°54'45	evening set	1809 Jul 02 13:06	22° \mathcal{B} 49'20	
minimum elong	1808 Jul 29 21:52	6° Ω 21'36	4°54'39	min. Earth dist.	1809 Jul 08 03:26	19° \mathcal{B} 56'53	0.56949 AU
morning rise	1808 Aug 06 15:33	1° Ω 58'48		inferior conj	1809 Jul 10 22:46	18° \mathcal{B} 08'37	-4°49'07
				minimum elong	1809 Jul 10 19:27	18° \mathcal{B} 13'59	4°48'49

morning rise	1809 Jul 19 04:31	14°☿03'46		inferior conj	1810 Jun 21 06:04	29°♄07'53	-3°58'53
direct	1809 Jul 21 19:42	13°☿44'38		minimum elong	1810 Jun 20 22:33	29°♄18'49	3°57'10
morning max el	1809 Jul 31 03:15	18°☿04'44	19°25'18	morning rise	1810 Jun 29 21:09	25°♄15'10	
asc. node	1809 Aug 07 11:11	27°☿23'00		direct	1810 Jul 02 17:06	24°♄56'13	
	1809 Aug 09 01:41	0°♄		morning max el	1810 Jul 13 15:07	29°♄59'38	20°38'21
morning set	1809 Aug 17 09:34	15°♄39'05			1810 Jul 13 15:16	0°☿	
	1809 Aug 24 13:45	0°♄		asc. node	1810 Jul 25 08:14	16°☿06'51	
				morning set	1810 Aug 01 15:49	0°♄17'54	
					1810 Aug 01 12:19	0°♄	
superior conj	1809 Aug 25 11:26	1°♄46'30	1°45'02				
minimum elong	1809 Aug 25 12:17	1°♄50'43	1°45'00				
max. Earth dist.	1809 Aug 31 17:23	13°♄39'24	1.37900 AU	superior conj	1810 Aug 09 04:56	15°♄52'53	1°44'51
evening rise	1809 Sep 04 11:46	20°♄26'53		minimum elong	1810 Aug 09 04:11	15°♄49'02	1°44'50
	1809 Sep 10 01:39	0°♄		max. Earth dist.	1810 Aug 14 00:26	25°♄29'26	1.36026 AU
desc. node	1809 Sep 14 21:21	7°♄47'30			1810 Aug 16 08:44	0°♄	
	1809 Sep 30 07:50	0°♄		evening rise	1810 Aug 18 01:27	3°♄11'03	
evening max el	1809 Oct 10 05:31	11°♄27'01	25°06'37	desc. node	1810 Sep 01 18:20	28°♄04'26	
retrograde	1809 Oct 22 01:42	18°♄18'30			1810 Sep 03 00:42	0°♄	
evening set	1809 Oct 27 19:52	15°♄53'25		evening max el	1810 Sep 22 17:23	25°♄05'44	26°13'11
min. Earth dist.	1809 Nov 01 07:49	10°♄50'36	0.67265 AU		1810 Sep 28 18:16	0°♄	
inferior conj	1809 Nov 02 08:05	9°♄31'08	-0°22'41	retrograde	1810 Oct 05 09:17	2°♄15'33	
minimum elong	1809 Nov 02 08:40	9°♄29'17	0°22'26		1810 Oct 11 06:29	30°♄	
asc. node	1809 Nov 03 10:23	8°♄06'00		evening set	1810 Oct 11 17:20	29°♄37'57	
morning rise	1809 Nov 07 21:38	3°♄32'02		min. Earth dist.	1810 Oct 15 21:49	25°♄10'59	0.66485 AU
direct	1809 Nov 11 09:47	2°♄21'06		inferior conj	1810 Oct 17 09:22	23°♄21'13	-1°20'11
morning max el	1809 Nov 18 18:16	6°♄31'14	19°40'15	minimum elong	1810 Oct 17 11:29	23°♄14'42	1°19'17
greatest brilliancy	1809 Dec 02 01:18	24°♄11'32	-0.7m	asc. node	1810 Oct 21 07:26	18°♄59'09	
	1809 Dec 05 21:48	0°♄		morning rise	1810 Oct 23 06:04	17°♄31'41	
desc. node	1809 Dec 11 20:39	9°♄06'51		direct	1810 Oct 26 08:05	16°♄37'27	
morning set	1809 Dec 13 23:16	12°♄22'11		morning max el	1810 Nov 02 03:20	20°♄23'52	18°48'10
	1809 Dec 25 06:07	0°♄			1810 Nov 09 15:52	0°♄	
max. Earth dist.	1809 Dec 26 07:14	1°♄39'30	1.44336 AU	morning set	1810 Nov 23 13:10	21°♄31'14	
				desc. node	1810 Nov 28 17:39	29°♄41'51	
superior conj	1809 Dec 30 15:58	8°♄38'02	-1°45'52		1810 Nov 28 22:16	0°♄	
minimum elong	1809 Dec 30 08:24	8°♄07'36	1°45'17	max. Earth dist.	1810 Dec 09 00:03	15°♄49'31	1.45054 AU
	1810 Jan 12 14:45	0°♄					
evening rise	1810 Jan 13 09:53	1°♄20'41		superior conj	1810 Dec 09 21:33	17°♄14'00	-1°10'07
asc. node	1810 Jan 30 09:40	28°♄04'47		minimum elong	1810 Dec 09 13:20	16°♄41'41	1°09'10
evening max el	1810 Feb 01 00:44	29°♄52'12	18°18'03		1810 Dec 17 23:29	0°♄	
	1810 Feb 01 03:50	0°♄		evening rise	1810 Dec 25 09:15	11°♄51'24	
retrograde	1810 Feb 07 12:03	3°♄21'37			1811 Jan 05 17:09	0°♄	
evening set	1810 Feb 10 10:59	2°♄34'55		evening max el	1811 Jan 15 11:52	13°♄17'34	18°47'00
	1810 Feb 13 20:01	30°♄		asc. node	1811 Jan 17 06:42	14°♄56'11	
inferior conj	1810 Feb 16 11:17	27°♄11'38	3°43'32	retrograde	1811 Jan 22 05:15	17°♄03'37	
minimum elong	1810 Feb 16 10:43	27°♄13'14	3°43'31	evening set	1811 Jan 25 09:59	16°♄05'11	
min. Earth dist.	1810 Feb 18 21:28	24°♄28'54	0.63671 AU	inferior conj	1811 Jan 31 02:59	10°♄24'29	3°31'14
morning rise	1810 Feb 22 09:40	21°♄06'32		minimum elong	1811 Jan 31 01:06	10°♄30'14	3°30'59
direct	1810 Mar 01 07:50	18°♄20'17		min. Earth dist.	1811 Feb 01 21:41	8°♄13'41	0.65279 AU
desc. node	1810 Mar 09 19:47	21°♄40'13		morning rise	1811 Feb 05 15:49	4°♄14'23	
morning max el	1810 Mar 15 02:31	26°♄15'00	27°38'53	direct	1811 Feb 12 07:36	1°♄22'20	
	1810 Mar 18 14:24	0°♄		desc. node	1811 Feb 24 16:50	8°♄18'44	
	1810 Apr 08 07:20	0°♄		morning max el	1811 Feb 25 12:15	9°♄06'40	26°56'09
morning set	1810 Apr 18 19:34	19°♄28'41			1811 Mar 13 21:21	0°♄	
	1810 Apr 23 22:49	0°♄			1811 Mar 31 17:02	0°♄	
max. Earth dist.	1810 Apr 23 22:54	0°♄00'26	1.33099 AU	morning set	1811 Apr 02 06:39	2°♄58'48	
				max. Earth dist.	1811 Apr 06 16:54	11°♄41'43	1.34200 AU
superior conj	1810 Apr 26 15:01	5°♄40'59	-0°18'21				
minimum elong	1810 Apr 26 15:55	5°♄45'49	0°18'09	superior conj	1811 Apr 10 16:54	19°♄54'41	-0°46'13
asc. node	1810 Apr 28 08:59	9°♄26'37		minimum elong	1811 Apr 10 19:14	20°♄06'50	0°45'46
evening rise	1810 May 03 17:27	20°♄55'38		asc. node	1811 Apr 15 06:01	29°♄29'09	
	1810 May 08 03:43	0°♄			1811 Apr 15 11:51	0°♄	
evening max el	1810 May 26 06:16	27°♄11'31	22°59'14	evening rise	1811 Apr 18 03:32	5°♄34'32	
	1810 May 29 12:36	0°♄			1811 May 01 13:57	0°♄	
desc. node	1810 Jun 05 18:59	3°♄33'04		evening max el	1811 May 08 02:16	7°♄52'14	21°27'03
retrograde	1810 Jun 08 15:30	3°♄51'39		retrograde	1811 May 20 06:18	13°♄49'11	
evening set	1810 Jun 12 02:26	3°♄25'27		evening set	1811 May 22 15:26	13°♄36'17	
min. Earth dist.	1810 Jun 19 15:20	0°♄04'01	0.55526 AU	desc. node	1811 May 23 16:00	13°♄23'09	
	1810 Jun 19 18:08	30°♄		inferior conj	1811 Jun 01 01:10	9°♄36'07	-2°22'53

minimum elong	1811 May 31 18:43	9° Π 45'09	2°20'44	minimum elong	1812 May 10 20:24	20° \mathcal{B} 01'31	0°23'13
min. Earth dist.	1811 Jun 01 03:35	9° Π 32'44	0.54917 AU	min. Earth dist.	1812 May 12 16:47	18° \mathcal{B} 55'32	0.55276 AU
morning rise	1811 Jun 09 22:37	5° Π 38'33		morning rise	1812 May 19 17:51	15° \mathcal{B} 39'03	
direct	1811 Jun 13 03:46	5° Π 16'01		direct	1812 May 23 16:42	15° \mathcal{B} 05'00	
morning max el	1811 Jun 25 15:49	11° Π 11'08	22°09'27	morning max el	1812 Jun 06 08:23	21° \mathcal{B} 47'56	23°50'52
	1811 Jul 09 08:06	0° \mathcal{E}			1812 Jun 13 11:48	0° Π	
asc. node	1811 Jul 12 05:17	5° \mathcal{E} 21'35		asc. node	1812 Jun 28 02:19	24° Π 58'25	
morning set	1811 Jul 17 01:41	15° \mathcal{E} 08'25		morning set	1812 Jun 30 13:19	0° \mathcal{E} 04'08	
					1812 Jun 30 12:32	0° \mathcal{E}	
superior conj	1811 Jul 24 06:45	0° \mathcal{Q} 24'33	1°37'51	superior conj	1812 Jul 07 13:59	15° \mathcal{E} 11'36	1°25'20
minimum elong	1811 Jul 24 04:55	0° \mathcal{Q} 14'53	1°37'43	minimum elong	1812 Jul 07 11:38	14° \mathcal{E} 58'53	1°25'02
	1811 Jul 24 02:06	0° \mathcal{Q}			1812 Jul 09 16:47	19° \mathcal{E} 44'09	1.33342 AU
max. Earth dist.	1811 Jul 27 15:56	7° \mathcal{Q} 26'54	1.34488 AU	max. Earth dist.	1812 Jul 14 15:11	0° \mathcal{Q}	
evening rise	1811 Aug 01 07:15	16° \mathcal{Q} 42'41		evening rise	1812 Jul 15 00:45	0° \mathcal{Q} 48'15	
	1811 Aug 08 11:53	0° \mathcal{P}			1812 Jul 31 11:15	0° \mathcal{P}	
desc. node	1811 Aug 19 15:21	18° \mathcal{P} 00'01		desc. node	1812 Aug 05 12:22	7° \mathcal{P} 24'18	
	1811 Aug 28 10:33	0° \mathcal{A}			1812 Aug 17 17:08	21° \mathcal{P} 53'57	27°24'48
evening max el	1811 Sep 05 05:41	8° \mathcal{A} 38'48	27°01'35	evening max el	1812 Aug 31 07:27	29° \mathcal{P} 11'41	
retrograde	1811 Sep 18 11:23	15° \mathcal{A} 56'11		retrograde	1812 Sep 07 11:13	26° \mathcal{P} 31'31	
evening set	1811 Sep 25 07:25	13° \mathcal{A} 12'34		evening set	1812 Sep 11 03:23	23° \mathcal{P} 15'13	0.63878 AU
min. Earth dist.	1811 Sep 29 05:07	9° \mathcal{A} 21'58	0.65361 AU	min. Earth dist.	1812 Sep 13 15:46	20° \mathcal{P} 39'08	-3°14'47
inferior conj	1811 Oct 01 04:46	7° \mathcal{A} 05'54	-2°18'24	inferior conj	1812 Sep 13 20:42	20° \mathcal{P} 26'23	3°13'14
minimum elong	1811 Oct 01 08:27	6° \mathcal{A} 55'24	2°17'00	minimum elong	1812 Sep 20 07:16	15° \mathcal{P} 18'21	
morning rise	1811 Oct 07 10:14	1° \mathcal{A} 28'58		morning rise	1812 Sep 22 20:22	14° \mathcal{P} 46'12	
asc. node	1811 Oct 08 04:29	1° \mathcal{A} 09'24		direct	1812 Sep 24 01:32	14° \mathcal{P} 53'40	
direct	1811 Oct 10 04:30	0° \mathcal{A} 47'34		asc. node	1812 Sep 29 09:20	18° \mathcal{P} 11'54	17°54'08
morning max el	1811 Oct 16 17:15	4° \mathcal{A} 19'26	18°12'27	morning max el	1812 Oct 07 23:09	0° \mathcal{A}	
	1811 Nov 03 00:54	0° \mathcal{M}			1812 Oct 16 05:42	14° \mathcal{A} 02'18	
morning set	1811 Nov 04 07:55	2° \mathcal{M} 07'21		morning set	1812 Oct 25 15:32	0° \mathcal{M}	
desc. node	1811 Nov 15 14:40	20° \mathcal{M} 24'14					
superior conj	1811 Nov 19 00:19	25° \mathcal{M} 48'39	-0°22'39	superior conj	1812 Oct 28 20:50	5° \mathcal{M} 18'37	0°24'19
minimum elong	1811 Nov 18 21:24	25° \mathcal{M} 37'07	0°22'16	minimum elong	1812 Oct 28 23:27	5° \mathcal{M} 29'17	0°23'57
	1811 Nov 21 16:01	0° \mathcal{X}		desc. node	1812 Nov 01 11:42	11° \mathcal{M} 10'50	
max. Earth dist.	1811 Nov 21 18:56	0° \mathcal{X} 11'28	1.45041 AU	max. Earth dist.	1812 Nov 03 13:09	14° \mathcal{M} 28'44	1.44299 AU
evening rise	1811 Dec 05 09:54	21° \mathcal{X} 28'18			1812 Nov 13 11:03	0° \mathcal{X}	
	1811 Dec 10 21:37	0° \mathcal{Z}		evening rise	1812 Nov 13 19:53	0° \mathcal{X} 34'01	
greatest brilliancy	1811 Dec 17 14:38	10° \mathcal{Z} 18'33	-0.7m		1812 Dec 03 15:21	0° \mathcal{Z}	
evening max el	1811 Dec 29 19:28	26° \mathcal{Z} 46'21	19°32'46	evening max el	1812 Dec 11 21:59	10° \mathcal{Z} 16'35	20°33'05
	1812 Jan 02 18:24	0° \mathcal{A}		retrograde	1812 Dec 19 23:53	15° \mathcal{Z} 02'34	
asc. node	1812 Jan 04 03:45	0° \mathcal{A} 38'08		asc. node	1812 Dec 21 00:48	14° \mathcal{Z} 56'32	
retrograde	1812 Jan 06 02:00	0° \mathcal{A} 58'33		evening set	1812 Dec 23 20:41	13° \mathcal{Z} 36'22	
	1812 Jan 09 05:55	30° \mathcal{R} \mathcal{Z}		inferior conj	1812 Dec 29 06:09	7° \mathcal{Z} 28'08	2°32'02
evening set	1812 Jan 09 13:56	29° \mathcal{Z} 46'59		minimum elong	1812 Dec 29 03:32	7° \mathcal{Z} 37'02	2°31'14
inferior conj	1812 Jan 15 02:08	23° \mathcal{Z} 51'09	3°06'25	min. Earth dist.	1812 Dec 29 21:02	6° \mathcal{Z} 37'26	0.67293 AU
minimum elong	1812 Jan 14 23:36	23° \mathcal{Z} 59'26	3°05'50	morning rise	1813 Jan 03 10:11	1° \mathcal{Z} 14'59	
min. Earth dist.	1812 Jan 16 06:10	22° \mathcal{Z} 19'31	0.66487 AU		1813 Jan 05 01:16	30° \mathcal{R} \mathcal{X}	
morning rise	1812 Jan 20 09:02	17° \mathcal{Z} 38'39		direct	1813 Jan 09 00:08	28° \mathcal{X} 46'54	
direct	1812 Jan 26 13:17	14° \mathcal{Z} 53'57			1813 Jan 13 08:32	0° \mathcal{Z}	
morning max el	1812 Feb 07 21:24	22° \mathcal{Z} 13'49	25°48'19	morning max el	1813 Jan 20 05:51	5° \mathcal{Z} 29'00	24°25'09
desc. node	1812 Feb 11 13:53	26° \mathcal{Z} 13'36		desc. node	1813 Jan 28 10:55	15° \mathcal{Z} 02'49	
	1812 Feb 14 17:13	0° \mathcal{A}			1813 Feb 08 04:37	0° \mathcal{A}	
	1812 Mar 06 03:51	0° \mathcal{X}		morning set	1813 Feb 25 04:22	27° \mathcal{A} 23'22	
morning set	1812 Mar 15 03:25	15° \mathcal{X} 42'05			1813 Feb 26 15:58	0° \mathcal{X}	
max. Earth dist.	1812 Mar 18 23:12	22° \mathcal{X} 52'33	1.35765 AU	max. Earth dist.	1813 Feb 28 20:45	3° \mathcal{X} 56'28	1.37716 AU
	1812 Mar 22 14:53	0° \mathcal{Y}					
superior conj	1812 Mar 24 10:59	3° \mathcal{Y} 40'23	-1°13'22	superior conj	1813 Mar 07 17:58	16° \mathcal{X} 49'14	-1°37'42
minimum elong	1812 Mar 24 14:35	3° \mathcal{Y} 58'31	1°12'47	minimum elong	1813 Mar 07 22:13	17° \mathcal{X} 09'44	1°37'12
evening rise	1812 Apr 01 09:58	19° \mathcal{Y} 56'57			1813 Mar 14 10:48	0° \mathcal{Y}	
asc. node	1812 Apr 01 03:03	19° \mathcal{Y} 21'37		evening rise	1813 Mar 16 10:22	3° \mathcal{Y} 56'11	
	1812 Apr 06 11:45	0° \mathcal{B}		asc. node	1813 Mar 19 00:06	8° \mathcal{Y} 59'24	
evening max el	1812 Apr 19 09:08	19° \mathcal{B} 05'46	20°08'35		1813 Apr 01 04:18	0° \mathcal{B}	
retrograde	1812 Apr 29 20:21	24° \mathcal{B} 09'22		evening max el	1813 Apr 02 03:26	0° \mathcal{B} 58'50	19°08'52
evening set	1812 May 01 21:13	23° \mathcal{B} 58'43		retrograde	1813 Apr 10 23:05	5° \mathcal{B} 15'05	
desc. node	1812 May 09 13:03	20° \mathcal{B} 47'42		evening set	1813 Apr 13 02:32	5° \mathcal{B} 01'01	
inferior conj	1812 May 10 21:30	19° \mathcal{B} 59'53	-0°23'37	inferior conj	1813 Apr 21 08:30	0° \mathcal{B} 49'12	1°24'51
				minimum elong	1813 Apr 21 11:40	0° \mathcal{B} 43'48	1°23'48

	1813 Apr 22 13:15	30° Υ		minimum elong	1814 Apr 02 20:23	12° Υ 10'03	2°41'14
min. Earth dist.	1813 Apr 24 07:53	28° Υ 48'18	0.56519 AU	min. Earth dist.	1814 Apr 06 02:46	9° Υ 34'58	0.58376 AU
desc. node	1813 Apr 26 10:05	27° Υ 30'36		morning rise	1814 Apr 10 08:10	6° Υ 51'42	
morning rise	1813 Apr 29 17:49	25° Υ 54'17		desc. node	1814 Apr 13 07:08	5° Υ 43'16	
direct	1813 May 04 17:08	24° Υ 56'47		direct	1814 Apr 16 07:37	5° Υ 19'34	
	1813 May 16 10:17	0° ♄		morning max el	1814 Apr 30 16:49	12° Υ 59'54	26°48'53
morning max el	1813 May 18 22:52	2° ♄ 14'58	25°29'13		1814 May 14 02:41	0° ♄	
	1813 Jun 07 11:49	0° ♂		morning set	1814 May 30 11:15	29° ♄ 50'15	
asc. node	1813 Jun 14 23:22	14° ♂ 51'08			1814 May 30 13:06	0° ♂	
morning set	1813 Jun 15 01:03	14° ♂ 59'55		asc. node	1814 Jun 01 20:26	4° ♂ 54'21	
	1813 Jun 21 23:08	0° ♄					
				superior conj	1814 Jun 06 12:10	15° ♂ 04'44	0°47'28
superior conj	1813 Jun 22 00:25	0° ♄ 07'03	1°08'16	minimum elong	1814 Jun 06 10:16	14° ♂ 54'16	0°47'05
minimum elong	1813 Jun 21 22:03	29° ♂ 54'09	1°07'52	max. Earth dist.	1814 Jun 06 12:39	15° ♂ 07'24	1.32227 AU
max. Earth dist.	1813 Jun 23 00:51	2° ♄ 20'39	1.32593 AU	evening rise	1814 Jun 13 09:46	0° ♄ 02'02	
evening rise	1813 Jun 29 02:31	15° ♄ 17'34			1814 Jun 13 09:23	0° ♄	
	1813 Jul 06 15:17	0° ♂			1814 Jun 29 20:01	0° ♂	
desc. node	1813 Jul 23 09:24	26° ♂ 04'14		desc. node	1814 Jul 10 06:24	13° ♂ 41'43	
	1813 Jul 26 15:29	0° ♄		evening max el	1814 Jul 13 03:21	16° ♂ 37'45	26°36'26
evening max el	1813 Jul 31 01:11	4° ♄ 37'09	27°17'10	retrograde	1814 Jul 27 02:43	23° ♂ 50'59	
retrograde	1813 Aug 13 20:48	11° ♄ 52'44		evening set	1814 Aug 02 20:15	21° ♂ 55'47	
evening set	1813 Aug 21 01:00	9° ♄ 28'18		min. Earth dist.	1814 Aug 06 16:51	19° ♂ 19'16	0.60038 AU
min. Earth dist.	1813 Aug 24 15:11	6° ♄ 39'00	0.62069 AU	inferior conj	1814 Aug 10 00:02	16° ♂ 40'16	-4°42'56
inferior conj	1813 Aug 27 15:20	3° ♄ 53'23	-4°05'14	minimum elong	1814 Aug 10 03:49	16° ♂ 32'38	4°42'27
minimum elong	1813 Aug 27 20:35	3° ♄ 41'16	4°04'01	morning rise	1814 Aug 17 13:25	12° ♂ 01'23	
	1813 Sep 01 10:33	30° ♄		direct	1814 Aug 19 23:54	11° ♂ 39'29	
morning rise	1813 Sep 03 17:42	28° ♄ 52'15		morning max el	1814 Aug 27 12:04	15° ♄ 18'48	18°13'07
direct	1813 Sep 06 04:11	28° ♄ 26'24		asc. node	1814 Aug 28 19:39	16° ♄ 40'44	
asc. node	1813 Sep 10 22:36	0° ♄ 08'23			1814 Sep 06 16:44	0° ♄	
	1813 Sep 10 17:45	0° ♄		morning set	1814 Sep 12 09:41	10° ♄ 33'34	
morning max el	1813 Sep 13 00:38	1° ♄ 54'12	17°54'00				
morning set	1813 Sep 29 00:11	26° ♄ 56'16		superior conj	1814 Sep 21 20:59	28° ♄ 12'43	1°27'20
	1813 Sep 30 16:53	0° ♄		minimum elong	1814 Sep 22 00:48	28° ♄ 29'58	1°26'58
					1814 Sep 22 20:46	0° ♄	
superior conj	1813 Oct 09 20:14	16° ♄ 08'10	1°01'54	max. Earth dist.	1814 Sep 29 11:40	11° ♄ 33'51	1.41101 AU
minimum elong	1813 Oct 10 00:50	16° ♄ 27'54	1°01'20	evening rise	1814 Oct 04 10:25	19° ♄ 47'21	
max. Earth dist.	1813 Oct 17 03:20	28° ♄ 21'16	1.42925 AU	desc. node	1814 Oct 06 05:46	22° ♄ 42'32	
	1813 Oct 18 03:34	0° ♄			1814 Oct 10 20:43	0° ♄	
desc. node	1813 Oct 19 08:44	1° ♄ 57'56			1814 Nov 01 00:10	0° ♄	
evening rise	1813 Oct 24 06:48	9° ♄ 46'47		evening max el	1814 Nov 07 10:36	7° ♄ 19'49	23°03'31
	1813 Nov 06 15:33	0° ♄		retrograde	1814 Nov 17 15:30	13° ♄ 23'03	
evening max el	1813 Nov 24 18:45	23° ♄ 47'00	21°44'50	evening set	1814 Nov 22 11:27	11° ♄ 24'00	
retrograde	1813 Dec 03 20:54	29° ♄ 11'37		asc. node	1814 Nov 24 18:53	9° ♄ 02'43	
asc. node	1813 Dec 07 21:51	27° ♄ 42'07		inferior conj	1814 Nov 27 20:18	5° ♄ 01'28	1°02'06
evening set	1813 Dec 08 04:25	27° ♄ 29'25		minimum elong	1814 Nov 27 18:54	5° ♄ 06'17	1°01'32
inferior conj	1813 Dec 13 12:49	21° ♄ 12'07	1°50'04	min. Earth dist.	1814 Nov 27 12:45	5° ♄ 27'28	0.67808 AU
minimum elong	1813 Dec 13 10:36	21° ♄ 19'47	1°49'16		1814 Dec 01 20:40	30° ♄	
min. Earth dist.	1813 Dec 13 16:01	21° ♄ 01'03	0.67724 AU	morning rise	1814 Dec 03 02:16	28° ♄ 52'20	
morning rise	1813 Dec 18 16:40	14° ♄ 59'59		direct	1814 Dec 07 10:27	27° ♄ 08'30	
direct	1813 Dec 23 15:26	12° ♄ 53'23			1814 Dec 13 17:45	0° ♄	
morning max el	1814 Jan 02 15:31	18° ♄ 49'20	22°56'39	morning max el	1814 Dec 16 05:44	2° ♄ 17'35	21°31'45
	1814 Jan 12 00:21	0° ♄		desc. node	1815 Jan 02 05:01	24° ♄ 25'44	
desc. node	1814 Jan 15 07:58	4° ♄ 30'18			1815 Jan 05 23:27	0° ♄	
	1814 Feb 01 08:37	0° ♄		morning set	1815 Jan 16 20:55	16° ♄ 46'36	
morning set	1814 Feb 06 03:11	7° ♄ 46'09		max. Earth dist.	1815 Jan 23 15:58	27° ♄ 45'51	1.41919 AU
max. Earth dist.	1814 Feb 10 16:04	15° ♄ 25'54	1.39857 AU		1815 Jan 25 00:20	0° ♄	
superior conj	1814 Feb 18 09:28	29° ♄ 09'26	-1°56'11	superior conj	1815 Jan 31 04:28	10° ♄ 29'38	-2°04'37
minimum elong	1814 Feb 18 12:59	29° ♄ 25'33	1°55'57	minimum elong	1815 Jan 31 04:57	10° ♄ 31'42	2°04'37
	1814 Feb 18 20:30	0° ♄		evening rise	1815 Feb 11 04:25	0° ♄ 11'34	
evening rise	1814 Feb 28 01:42	17° ♄ 23'39			1815 Feb 11 01:53	0° ♄	
asc. node	1814 Mar 05 21:09	28° ♄ 16'09		asc. node	1815 Feb 20 18:11	17° ♄ 05'10	
	1814 Mar 06 20:28	0° ♄		evening max el	1815 Feb 27 16:18	26° ♄ 20'35	18°09'49
evening max el	1814 Mar 16 06:51	13° ♄ 26'27	18°29'22	retrograde	1815 Mar 06 11:27	29° ♄ 47'07	
retrograde	1814 Mar 23 20:31	17° ♄ 09'51		evening set	1815 Mar 09 02:18	29° ♄ 17'01	
evening set	1814 Mar 26 05:41	16° ♄ 48'52		inferior conj	1815 Mar 15 20:44	24° ♄ 25'20	3°26'17
inferior conj	1814 Apr 02 16:25	12° ♄ 17'57	2°42'12	minimum elong	1815 Mar 15 23:13	24° ♄ 19'35	3°25'58

min. Earth dist.	1815 Mar 19 03:41	21° H 23'55	0.60507 AU	evening set	1816 Feb 20 12:01	12° H 16'33	
morning rise	1815 Mar 22 18:06	18° H 37'49		inferior conj	1816 Feb 26 17:55	7° H 04'28	3°43'16
direct	1815 Mar 29 10:20	16° H 29'06		minimum elong	1816 Feb 26 18:22	7° H 03'15	3°43'16
desc. node	1815 Mar 31 04:10	16° H 37'29		min. Earth dist.	1816 Feb 29 12:47	4° H 09'21	0.62591 AU
morning max el	1815 Apr 12 16:44	24° H 20'58	27°37'18	morning rise	1816 Mar 03 23:36	1° H 04'21	
	1815 Apr 17 19:58	0° Y			1816 Mar 05 14:17	30° R \approx	
	1815 May 07 08:50	0° B		direct	1816 Mar 10 22:28	28° \approx 27'54	
morning set	1815 May 14 18:05	14° B 28'26			1816 Mar 16 15:58	0° H	
asc. node	1815 May 19 17:28	25° B 02'54		desc. node	1816 Mar 17 01:12	0° H 12'05	
max. Earth dist.	1815 May 21 00:27	27° B 51'52	1.32248 AU	morning max el	1816 Mar 24 22:16	6° H 23'12	27°48'48
					1816 Apr 11 20:30	0° Y	
superior conj	1815 May 21 23:30	29° B 58'07	0°23'37	morning set	1816 Apr 27 19:30	28° Y 47'27	
minimum elong	1815 May 21 22:27	29° B 52'21	0°23'23		1816 Apr 28 09:47	0° B	
	1815 May 21 23:51	0° II		max. Earth dist.	1816 May 03 08:27	10° B 21'15	1.32671 AU
evening rise	1815 May 28 20:16	14° II 53'42					
	1815 Jun 05 09:41	0° E		superior conj	1816 May 05 08:43	14° B 41'21	-0°02'34
evening max el	1815 Jun 24 22:31	27° E 52'06	25°25'37	minimum elong	1816 May 05 08:50	14° B 42'02	0°02'32
desc. node	1815 Jun 27 03:26	29° E 50'23		behind sun begin	1816 May 05 03:42	14° B 14'11	
	1815 Jun 27 08:05	0° Q		behind sun end	1816 May 05 13:58	15° B 09'53	
retrograde	1815 Jul 08 23:01	5° Q 00'27		asc. node	1816 May 05 14:30	15° B 12'42	
evening set	1815 Jul 14 16:34	3° Q 43'44		evening rise	1816 May 12 08:05	29° B 45'54	
min. Earth dist.	1815 Jul 19 10:33	1° Q 01'43	0.58001 AU		1816 May 12 10:44	0° II	
	1815 Jul 20 22:24	30° R E			1816 May 29 06:33	0° E	
inferior conj	1815 Jul 22 14:23	28° E 49'36	-4°57'07	evening max el	1816 Jun 05 12:48	8° E 31'17	23°54'44
minimum elong	1815 Jul 22 14:11	28° E 49'57	4°57'07	desc. node	1816 Jun 13 00:25	13° E 56'32	
morning rise	1815 Jul 30 14:18	24° E 32'59		retrograde	1816 Jun 19 07:00	15° E 25'49	
direct	1815 Aug 02 03:07	24° E 13'16		evening set	1816 Jun 23 14:20	14° E 44'57	
morning max el	1815 Aug 10 16:19	28° E 15'17	18°52'46	min. Earth dist.	1816 Jun 29 23:30	11° E 41'39	0.56267 AU
	1815 Aug 12 08:57	0° Q		inferior conj	1816 Jul 02 08:30	10° E 14'32	-4°33'49
asc. node	1815 Aug 15 16:41	4° Q 14'38		minimum elong	1816 Jul 02 03:00	10° E 23'00	4°33'01
morning set	1815 Aug 27 05:40	24° Q 41'19		morning rise	1816 Jul 10 18:19	6° E 16'01	
	1815 Aug 29 22:28	0° P		direct	1816 Jul 13 11:24	5° E 57'05	
				morning max el	1816 Jul 23 10:34	10° E 34'19	19°53'47
superior conj	1815 Sep 04 17:34	11° P 15'46	1°41'24	asc. node	1816 Aug 01 13:44	22° E 36'27	
minimum elong	1815 Sep 04 19:32	11° P 25'07	1°41'17		1816 Aug 05 16:57	0° Q	
max. Earth dist.	1815 Sep 11 15:44	24° P 02'50	1.39067 AU	morning set	1816 Aug 10 08:56	9° Q 11'02	
	1815 Sep 15 01:15	0° E					
evening rise	1815 Sep 15 13:50	0° E 54'05		superior conj	1816 Aug 18 04:42	25° Q 02'36	1°45'52
desc. node	1815 Sep 23 02:46	13° E 20'11		minimum elong	1816 Aug 18 04:49	25° Q 03'11	1°45'52
	1815 Oct 04 04:28	0° M			1816 Aug 20 17:00	0° P	
evening max el	1815 Oct 20 23:31	20° M 56'18	24°23'13	max. Earth dist.	1816 Aug 23 20:22	6° P 01'40	1.37077 AU
retrograde	1815 Nov 01 06:23	27° M 32'32		evening rise	1816 Aug 27 16:13	13° P 05'35	
evening set	1815 Nov 06 16:09	25° M 16'45			1816 Sep 06 14:31	0° E	
min. Earth dist.	1815 Nov 11 08:46	19° M 53'39	0.67558 AU	desc. node	1816 Sep 08 23:46	3° E 46'19	
asc. node	1815 Nov 11 15:54	19° M 29'45			1816 Sep 28 03:39	0° M	
inferior conj	1815 Nov 12 02:47	18° M 53'13	0°09'22	evening max el	1816 Oct 02 11:30	4° M 35'48	25°36'43
minimum elong	1815 Nov 12 02:33	18° M 53'59	0°09'16	retrograde	1816 Oct 14 16:36	11° M 35'41	
transit middle	1815 Nov 12 02:33	18° M 53'59	0°09'16	evening set	1816 Oct 20 16:48	9° M 04'56	
transit begin	1815 Nov 12 00:18	19° M 01'32		min. Earth dist.	1816 Oct 25 01:37	4° M 17'07	0.66978 AU
transit end	1815 Nov 12 04:48	18° M 46'26		inferior conj	1816 Oct 26 06:30	2° M 44'43	-0°46'50
morning rise	1815 Nov 17 12:59	12° M 49'30		minimum elong	1816 Oct 26 07:42	2° M 40'51	0°46'18
direct	1815 Nov 21 07:58	11° M 27'12			1816 Oct 28 11:55	30° R E	
morning max el	1815 Nov 29 03:10	15° M 55'56	20°17'00	asc. node	1816 Oct 28 12:57	29° E 57'01	
	1815 Dec 10 04:07	0° A		morning rise	1816 Oct 31 22:51	26° E 49'12	
desc. node	1815 Dec 20 02:04	14° A 41'01		direct	1816 Nov 04 06:32	25° E 45'37	
morning set	1815 Dec 26 18:41	24° A 56'08		morning max el	1816 Nov 11 08:20	29° E 44'09	19°16'08
	1815 Dec 30 00:50	0° B			1816 Nov 11 14:34	0° M	
max. Earth dist.	1816 Jan 05 23:51	11° B 01'02	1.43616 AU		1816 Dec 02 15:14	0° A	
				morning set	1816 Dec 04 20:12	3° A 25'38	
superior conj	1816 Jan 11 22:13	20° B 39'52	-1°58'05	desc. node	1816 Dec 05 23:04	5° A 10'09	
minimum elong	1816 Jan 11 17:27	20° B 20'14	1°57'51	max. Earth dist.	1816 Dec 18 14:43	24° A 58'10	1.44731 AU
	1816 Jan 17 12:13	0° \approx					
evening rise	1816 Jan 24 14:19	12° \approx 11'32		superior conj	1816 Dec 21 14:20	29° A 41'44	-1°32'47
	1816 Feb 04 01:30	0° H		minimum elong	1816 Dec 21 05:38	29° A 07'13	1°31'57
asc. node	1816 Feb 07 15:12	5° H 17'51			1816 Dec 21 18:56	0° B	
evening max el	1816 Feb 11 04:38	9° H 32'43	18°09'40	evening rise	1817 Jan 05 03:08	23° B 15'57	
retrograde	1816 Feb 17 15:58	12° H 57'03			1817 Jan 09 04:42	0° \approx	

evening max el	1817 Jan 24 16:55	22°  54'45	18°28'13	asc. node	1818 Jan 11 09:17	9°  06'50	
asc. node	1817 Jan 24 12:14	22°  42'45		retrograde	1818 Jan 15 00:54	10°  18'18	
retrograde	1817 Jan 31 05:42	26°  29'42		evening set	1818 Jan 18 08:31	9°  14'21	
evening set	1817 Feb 03 07:05	25°  37'57		inferior conj	1818 Jan 23 23:10	3°  26'37	3°22'04
inferior conj	1817 Feb 09 03:54	20°  06'52	3°40'05	minimum elong	1818 Jan 23 20:56	3°  33'40	3°21'40
minimum elong	1817 Feb 09 02:42	20°  10'23	3°39'59	min. Earth dist.	1818 Jan 25 11:22	1°  32'13	0.65839 AU
min. Earth dist.	1817 Feb 11 07:24	17°  36'46	0.64403 AU		1818 Jan 26 17:45	30°  R 	
morning rise	1817 Feb 14 21:47	13°  59'31		morning rise	1818 Jan 29 09:04	27°  Z  15'09	
direct	1817 Feb 21 18:04	11°  09'18		direct	1818 Feb 04 20:15	24°  Z  25'11	
desc. node	1817 Mar 03 22:16	15°  53'38			1818 Feb 15 14:43	0° 	
morning max el	1817 Mar 07 07:16	19°  00'08	27°24'24	morning max el	1818 Feb 17 17:12	2°  00'50	26°29'54
	1817 Mar 16 15:25	0°  X		desc. node	1818 Feb 18 19:19	3°  08'06	
	1817 Apr 04 19:17	0°  Y			1818 Mar 10 18:59	0°  X	
morning set	1817 Apr 11 12:46	12°  Y  38'11		morning set	1818 Mar 25 18:23	25°  X  50'14	
max. Earth dist.	1817 Apr 16 08:46	22°  Y  23'10	1.33519 AU		1818 Mar 27 22:43	0°  Y	
				max. Earth dist.	1818 Mar 29 22:10	3°  Y  51'49	1.34818 AU
superior conj	1817 Apr 19 13:53	29°  Y  07'30	-0°30'08	superior conj	1818 Apr 03 12:48	13°  Y  10'08	-0°57'55
minimum elong	1817 Apr 19 15:23	29°  Y  15'29	0°29'49	minimum elong	1818 Apr 03 15:42	13°  Y  25'06	0°57'23
	1817 Apr 19 23:46	0°  B		asc. node	1818 Apr 09 08:34	25°  Y  17'52	
asc. node	1817 Apr 22 11:31	5°  B  18'58		evening rise	1818 Apr 11 04:10	29°  Y  04'23	
evening rise	1817 Apr 26 19:20	14°  B  31'30			1818 Apr 11 14:57	0°  B	
	1817 May 04 15:27	0°  II		evening max el	1818 Apr 30 04:30	29°  B  53'39	20°51'26
evening max el	1817 May 18 04:23	19°  II  01'28	22°18'45		1818 Apr 30 07:08	0°  II	
desc. node	1817 May 30 21:26	25°  II  25'03		retrograde	1818 May 11 16:02	5°  II  28'48	
retrograde	1817 May 31 02:43	25°  II  25'10		evening set	1818 May 13 19:37	5°  II  17'47	
evening set	1817 Jun 03 01:01	25°  II  06'13		desc. node	1818 May 17 18:30	4°  II  06'03	
min. Earth dist.	1817 Jun 11 10:58	21°  II  28'59	0.55163 AU	inferior conj	1818 May 23 02:56	1°  II  19'49	-1°33'02
inferior conj	1817 Jun 12 09:12	20°  II  57'36	-3°22'59	minimum elong	1818 May 22 22:33	1°  II  26'04	1°31'28
minimum elong	1817 Jun 12 01:22	21°  II  08'40	3°20'47	min. Earth dist.	1818 May 23 23:24	0°  II  50'41	0.54952 AU
morning rise	1817 Jun 21 03:38	17°  II  05'32			1818 May 25 11:39	30°  R  B	
direct	1817 Jun 24 02:58	16°  II  45'36		morning rise	1818 Jun 01 01:08	27°  B  14'33	
morning max el	1817 Jul 05 17:24	22°  II  09'54	21°15'15	direct	1818 Jun 04 12:25	26°  B  48'35	
	1817 Jul 12 09:31	0°  E			1818 Jun 13 18:45	0°  II	
asc. node	1817 Jul 19 10:47	11°  E  34'32		morning max el	1818 Jun 17 14:12	3°  II  04'59	22°52'06
morning set	1817 Jul 25 16:59	23°  E  55'48			1818 Jul 05 19:43	0°  E	
	1817 Jul 28 14:48	0°  O		asc. node	1818 Jul 06 07:49	0°  E  59'33	
superior conj	1817 Aug 02 02:09	9°  O  20'58	1°42'37	morning set	1818 Jul 10 03:48	8°  E  49'18	
minimum elong	1817 Aug 02 00:52	9°  O  14'20	1°42'34	superior conj	1818 Jul 17 06:34	24°  E  00'23	1°33'09
max. Earth dist.	1817 Aug 06 06:56	17°  O  53'36	1.35328 AU	minimum elong	1818 Jul 17 04:27	23°  E  49'04	1°32'57
evening rise	1817 Aug 10 13:18	26°  O  11'18		max. Earth dist.	1818 Jul 20 02:24	29°  E  58'19	1.33946 AU
	1817 Aug 12 14:14	0°  P			1818 Jul 20 02:43	0°  O	
desc. node	1817 Aug 26 20:46	23°  P  55'24		evening rise	1818 Jul 25 00:31	9°  O  58'33	
	1817 Aug 31 00:12	0°  U			1818 Aug 04 23:54	0°  P	
evening max el	1817 Sep 14 23:39	18°  U  13'32	26°36'25	desc. node	1818 Aug 13 17:48	13°  P  39'16	
retrograde	1817 Sep 27 21:46	25°  U  27'09			1818 Aug 26 19:19	0°  U	
evening set	1817 Oct 04 11:26	22°  U  45'53		evening max el	1818 Aug 28 11:33	1°  U  39'46	27°14'53
min. Earth dist.	1817 Oct 08 12:55	18°  U  34'43	0.66052 AU	retrograde	1818 Sep 10 21:28	8°  U  58'35	
inferior conj	1817 Oct 10 05:34	16°  U  33'10	-1°44'53	evening set	1818 Sep 17 21:33	6°  U  14'41	
minimum elong	1817 Oct 10 08:21	16°  U  24'50	1°43'46	min. Earth dist.	1818 Sep 21 16:30	2°  U  39'30	0.64769 AU
asc. node	1817 Oct 15 10:01	11°  U  19'23		inferior conj	1818 Sep 23 21:42	0°  U  13'36	-2°42'46
morning rise	1817 Oct 16 05:49	10°  U  48'50		minimum elong	1818 Sep 24 01:59	0°  U  01'52	2°41'15
direct	1817 Oct 19 04:19	10°  U  00'27			1818 Sep 24 02:40	30°  R  P	
morning max el	1817 Oct 25 19:51	13°  U  39'13	18°31'00	morning rise	1818 Sep 30 07:20	24°  P  43'27	
	1817 Nov 06 15:41	0°  M		asc. node	1818 Oct 02 07:04	24°  P  08'51	
morning set	1817 Nov 14 22:02	13°  M  11'47		direct	1818 Oct 02 23:01	24°  P  06'31	
desc. node	1817 Nov 22 20:05	25°  M  49'04		morning max el	1818 Oct 09 11:08	27°  P  34'47	18°02'34
	1817 Nov 25 11:34	0°  X			1818 Oct 11 15:05	0°  U	
superior conj	1817 Nov 30 15:58	8°  X  09'31	-0°50'43	morning set	1818 Oct 27 04:53	24°  U  23'11	
minimum elong	1817 Nov 30 09:32	7°  X  44'13	0°49'54		1818 Oct 30 13:35	0°  M	
max. Earth dist.	1817 Dec 01 09:22	9°  X  17'50	1.45137 AU	desc. node	1818 Nov 09 17:05	16°  M  33'37	
	1817 Dec 14 13:10	0°  Z		superior conj	1818 Nov 10 00:17	17°  M  02'28	-0°02'02
evening rise	1817 Dec 16 16:34	3°  Z  23'18		minimum elong	1818 Nov 10 00:02	17°  M  01'29	0°01'59
greatest brilliancy	1817 Dec 25 23:59	18°  Z  06'19	-0.8m	behind sun begin	1818 Nov 09 13:31	16°  M  19'19	
	1818 Jan 02 22:33	0°		behind sun end	1818 Nov 10 10:34	17° M 43'35	
evening max el	1818 Jan 08 02:45	6° Z 22'00	19°04'27				

max. Earth dist.	1818 Nov 14 04:04	23° \mathbb{M} 39'04	1.44804 AU	evening rise	1819 Nov 05 17:33	21° \mathbb{M} 45'41	
	1818 Nov 18 05:01	0° \mathbb{A}			1819 Nov 11 02:47	0° \mathbb{A}	
evening rise	1818 Nov 26 09:24	12° \mathbb{A} 42'38			1819 Dec 02 08:05	0° \mathbb{B}	
	1818 Dec 07 16:41	0° \mathbb{B}		evening max el	1819 Dec 05 08:18	3° \mathbb{B} 21'08	21°02'30
greatest brilliancy	1818 Dec 10 06:27	3° \mathbb{B} 50'46	-0.6m	retrograde	1819 Dec 13 20:12	8° \mathbb{B} 23'18	
evening max el	1818 Dec 22 08:13	19° \mathbb{B} 50'55	19°56'47	asc. node	1819 Dec 16 03:24	7° \mathbb{B} 53'47	
asc. node	1818 Dec 29 06:21	24° \mathbb{B} 14'42		evening set	1819 Dec 17 21:14	6° \mathbb{B} 50'41	
retrograde	1818 Dec 29 22:32	24° \mathbb{B} 17'14		inferior conj	1819 Dec 23 06:05	0° \mathbb{B} 38'19	2°15'02
evening set	1819 Jan 02 13:54	22° \mathbb{B} 59'45		minimum elong	1819 Dec 23 03:34	0° \mathbb{B} 46'55	2°14'13
inferior conj	1819 Jan 08 00:41	16° \mathbb{B} 58'08	2°52'53	min. Earth dist.	1819 Dec 23 15:56	0° \mathbb{B} 04'24	0.67521 AU
minimum elong	1819 Jan 07 22:04	17° \mathbb{B} 06'55	2°52'11		1819 Dec 23 17:13	30° \mathbb{R} \mathbb{A}	
min. Earth dist.	1819 Jan 08 22:58	15° \mathbb{B} 43'48	0.66872 AU	morning rise	1819 Dec 28 09:43	24° \mathbb{A} 25'13	
morning rise	1819 Jan 13 06:00	10° \mathbb{B} 44'53		direct	1820 Jan 02 17:16	22° \mathbb{A} 05'36	
direct	1819 Jan 19 04:17	8° \mathbb{B} 06'20		morning max el	1820 Jan 13 10:29	28° \mathbb{A} 28'57	23°47'28
morning max el	1819 Jan 31 02:06	15° \mathbb{B} 12'32	25°14'13		1820 Jan 14 21:21	0° \mathbb{B}	
desc. node	1819 Feb 05 16:21	21° \mathbb{B} 28'14		desc. node	1820 Jan 23 13:23	10° \mathbb{B} 35'11	
	1819 Feb 12 06:04	0° \approx			1820 Feb 06 00:14	0° \approx	
	1819 Mar 03 15:58	0° \mathbb{H}		morning set	1820 Feb 17 22:02	19° \approx 19'04	
morning set	1819 Mar 08 07:32	8° \mathbb{H} 09'41		max. Earth dist.	1820 Feb 21 18:57	26° \approx 03'04	1.38612 AU
max. Earth dist.	1819 Mar 11 23:55	14° \mathbb{H} 55'03	1.36549 AU		1820 Feb 23 23:57	0° \mathbb{H}	
superior conj	1819 Mar 18 02:36	26° \mathbb{H} 41'22	-1°24'12	superior conj	1820 Feb 29 03:35	9° \mathbb{H} 30'58	-1°46'29
minimum elong	1819 Mar 18 06:36	27° \mathbb{H} 01'07	1°23'37	minimum elong	1820 Feb 29 07:44	9° \mathbb{H} 50'38	1°46'06
	1819 Mar 19 18:31	0° \mathbb{Y}		evening rise	1820 Mar 09 05:14	27° \mathbb{H} 04'13	
evening rise	1819 Mar 26 08:21	13° \mathbb{Y} 17'55			1820 Mar 10 17:22	0° \mathbb{Y}	
asc. node	1819 Mar 27 05:38	15° \mathbb{Y} 04'59		asc. node	1820 Mar 13 02:42	4° \mathbb{Y} 34'32	
	1819 Apr 04 04:36	0° \mathbb{B}		evening max el	1820 Mar 25 15:04	23° \mathbb{Y} 34'00	18°49'43
evening max el	1819 Apr 12 16:27	11° \mathbb{B} 24'48	19°40'50	retrograde	1820 Apr 02 20:24	27° \mathbb{Y} 33'51	
retrograde	1819 Apr 22 10:21	16° \mathbb{B} 06'59		evening set	1820 Apr 05 02:18	27° \mathbb{Y} 17'09	
evening set	1819 Apr 24 11:16	15° \mathbb{B} 55'33		inferior conj	1820 Apr 12 23:55	22° \mathbb{Y} 57'59	2°01'52
inferior conj	1819 May 03 04:21	11° \mathbb{B} 52'45	0°25'21	minimum elong	1820 Apr 13 03:49	22° \mathbb{Y} 50'52	2°00'42
minimum elong	1819 May 03 05:27	11° \mathbb{B} 51'01	0°24'56	min. Earth dist.	1820 Apr 16 06:13	20° \mathbb{Y} 36'38	0.57251 AU
desc. node	1819 May 04 15:32	10° \mathbb{B} 57'24		desc. node	1820 Apr 20 12:35	18° \mathbb{Y} 04'21	
min. Earth dist.	1819 May 05 13:43	10° \mathbb{B} 23'03	0.55702 AU	morning rise	1820 Apr 21 02:13	17° \mathbb{Y} 48'59	
morning rise	1819 May 11 21:04	7° \mathbb{B} 17'28		direct	1820 Apr 26 12:37	16° \mathbb{Y} 37'24	
direct	1819 May 16 05:42	6° \mathbb{B} 35'00		morning max el	1820 May 10 20:28	24° \mathbb{Y} 06'34	26°06'10
morning max el	1819 May 30 05:18	13° \mathbb{B} 35'36	24°33'56		1820 May 16 05:05	0° \mathbb{B}	
	1819 Jun 11 23:45	0° \mathbb{I}			1820 Jun 03 21:02	0° \mathbb{I}	
asc. node	1819 Jun 23 04:53	20° \mathbb{I} 44'25		morning set	1820 Jun 08 02:57	8° \mathbb{I} 40'33	
morning set	1819 Jun 24 15:41	23° \mathbb{I} 46'24		asc. node	1820 Jun 09 01:56	10° \mathbb{I} 42'17	
	1819 Jun 27 13:30	0° \mathbb{E}		superior conj	1820 Jun 15 02:40	23° \mathbb{I} 50'13	0°59'53
superior conj	1819 Jul 01 15:28	8° \mathbb{E} 52'52	1°18'37	minimum elong	1820 Jun 15 00:27	23° \mathbb{I} 38'03	0°59'28
minimum elong	1819 Jul 01 13:03	8° \mathbb{E} 39'44	1°18'16	max. Earth dist.	1820 Jun 15 16:35	25° \mathbb{I} 06'36	1.32394 AU
max. Earth dist.	1819 Jul 03 06:30	12° \mathbb{E} 24'13	1.32972 AU		1820 Jun 17 22:17	0° \mathbb{E}	
evening rise	1819 Jul 08 21:58	24° \mathbb{E} 16'20		evening rise	1820 Jun 22 02:22	8° \mathbb{E} 53'31	
	1819 Jul 11 18:50	0° \mathbb{O}			1820 Jul 03 03:47	0° \mathbb{O}	
	1819 Jul 29 14:19	0° \mathbb{N}		desc. node	1820 Jul 17 11:52	21° \mathbb{O} 03'32	
desc. node	1819 Jul 31 14:50	2° \mathbb{N} 47'17		evening max el	1820 Jul 23 03:52	27° \mathbb{O} 10'26	27°03'54
evening max el	1819 Aug 10 21:48	14° \mathbb{N} 43'19	27°25'33		1820 Jul 26 10:29	0° \mathbb{N}	
retrograde	1819 Aug 24 15:04	22° \mathbb{N} 01'04		retrograde	1820 Aug 06 01:24	4° \mathbb{N} 24'29	
evening set	1819 Aug 31 19:57	19° \mathbb{N} 25'58		evening set	1820 Aug 13 02:24	2° \mathbb{N} 11'20	
min. Earth dist.	1819 Sep 04 10:35	16° \mathbb{N} 22'16	0.63142 AU		1820 Aug 16 03:10	30° \mathbb{R} \mathbb{O}	
inferior conj	1819 Sep 07 04:15	13° \mathbb{N} 40'19	-3°37'16	min. Earth dist.	1820 Aug 16 18:08	29° \mathbb{O} 29'11	0.61226 AU
minimum elong	1819 Sep 07 09:29	13° \mathbb{N} 27'24	3°35'47	inferior conj	1820 Aug 19 21:57	26° \mathbb{O} 44'24	-4°23'20
morning rise	1819 Sep 14 00:20	8° \mathbb{N} 27'30		minimum elong	1820 Aug 20 02:51	26° \mathbb{O} 33'41	4°22'24
direct	1819 Sep 16 11:51	7° \mathbb{N} 58'30		morning rise	1820 Aug 27 04:59	21° \mathbb{O} 52'06	
asc. node	1819 Sep 19 04:06	8° \mathbb{N} 33'03		direct	1820 Aug 29 15:08	21° \mathbb{O} 28'09	
morning max el	1819 Sep 23 03:17	11° \mathbb{N} 24'24	17°51'43	asc. node	1820 Sep 05 01:08	24° \mathbb{O} 22'22	
	1819 Oct 05 15:42	0° \mathbb{U}		morning max el	1820 Sep 05 17:14	24° \mathbb{O} 59'54	17°59'36
morning set	1819 Oct 09 12:14	6° \mathbb{U} 45'36			1820 Sep 09 20:56	0° \mathbb{N}	
superior conj	1819 Oct 21 07:54	27° \mathbb{U} 05'40	0°41'40	morning set	1820 Sep 21 13:45	20° \mathbb{N} 00'02	
minimum elong	1819 Oct 21 11:49	27° \mathbb{U} 21'56	0°41'09		1820 Sep 27 00:42	0° \mathbb{U}	
	1819 Oct 23 01:56	0° \mathbb{M}		superior conj	1820 Oct 01 18:35	8° \mathbb{U} 28'26	1°14'11
desc. node	1819 Oct 27 14:08	7° \mathbb{M} 21'06		minimum elong	1820 Oct 01 23:05	8° \mathbb{U} 48'09	1°13'40
max. Earth dist.	1819 Oct 27 20:15	7° \mathbb{M} 45'42	1.43785 AU	max. Earth dist.	1820 Oct 09 08:09	21° \mathbb{U} 23'14	1.42199 AU

desc. node	1820 Oct 13 11:11	28° Ω 07'47		evening rise	1821 Sep 25 23:28	11° Ω 42'52	
	1820 Oct 14 15:10	0° \mathbb{M}		desc. node	1821 Sep 30 08:11	18° Ω 49'51	
evening rise	1820 Oct 15 10:07	1° \mathbb{M} 15'29			1821 Oct 07 12:55	0° \mathbb{M}	
	1820 Nov 03 15:17	0° \mathbb{A}			1821 Oct 30 06:25	0° \mathbb{A}	
evening max el	1820 Nov 17 02:57	16° \mathbb{A} 53'13	22°17'50	evening max el	1821 Oct 30 17:15	0° \mathbb{A} 27'21	23°37'41
retrograde	1820 Nov 26 16:12	22° \mathbb{A} 33'57		retrograde	1821 Nov 10 09:13	6° \mathbb{A} 45'10	
evening set	1820 Dec 01 04:50	20° \mathbb{A} 44'42		evening set	1821 Nov 15 11:04	4° \mathbb{A} 38'40	
asc. node	1820 Dec 02 00:24	20° \mathbb{A} 01'17		asc. node	1821 Nov 18 21:25	0° \mathbb{A} 53'27	
inferior conj	1820 Dec 06 13:17	14° \mathbb{A} 24'58	1°30'22		1821 Nov 19 13:40	30° \mathbb{R} \mathbb{M}	
minimum elong	1820 Dec 06 11:22	14° \mathbb{A} 31'35	1°29'38	inferior conj	1821 Nov 20 20:31	28° \mathbb{M} 15'18	0°40'13
min. Earth dist.	1820 Dec 06 11:53	14° \mathbb{A} 29'51	0.67806 AU	minimum elong	1821 Nov 20 19:34	28° \mathbb{M} 18'31	0°39'49
morning rise	1820 Dec 11 17:46	8° \mathbb{A} 13'59		min. Earth dist.	1821 Nov 20 08:28	28° \mathbb{M} 56'28	0.67746 AU
direct	1820 Dec 16 10:20	6° \mathbb{A} 16'53		morning rise	1821 Nov 26 04:04	22° \mathbb{M} 08'28	
morning max el	1820 Dec 25 21:31	11° \mathbb{A} 51'54	22°19'38	direct	1821 Nov 30 06:26	20° \mathbb{M} 34'09	
desc. node	1821 Jan 09 10:25	0° \mathbb{B} 15'55		morning max el	1821 Dec 08 14:40	25° \mathbb{M} 24'31	20°58'30
	1821 Jan 09 05:56	0° \mathbb{B}			1821 Dec 12 16:35	0° \mathbb{A}	
morning set	1821 Jan 28 08:20	29° \mathbb{B} 05'42		desc. node	1821 Dec 27 07:26	20° \mathbb{A} 20'29	
	1821 Jan 28 21:41	0° \approx			1822 Jan 02 17:03	0° \mathbb{B}	
max. Earth dist.	1821 Feb 02 15:51	7° \approx 53'36	1.40764 AU	morning set	1822 Jan 07 15:25	7° \mathbb{B} 37'43	
				max. Earth dist.	1822 Jan 15 19:37	20° \mathbb{B} 40'01	1.42703 AU
					1822 Jan 21 10:55	0° \approx	
superior conj	1821 Feb 10 11:04	21° \approx 27'41	-2°01'17				
minimum elong	1821 Feb 10 13:36	21° \approx 39'05	2°01'11				
	1821 Feb 15 03:39	0° \mathbb{H}		superior conj	1822 Jan 22 19:41	2° \approx 18'29	-2°03'59
evening rise	1821 Feb 20 15:41	10° \mathbb{H} 16'04		minimum elong	1822 Jan 22 18:06	2° \approx 11'46	2°03'56
asc. node	1821 Feb 27 23:45	23° \mathbb{H} 40'31		evening rise	1822 Feb 03 11:45	22° \approx 44'35	
	1821 Mar 03 21:34	0° \mathbb{Y}			1822 Feb 07 13:19	0° \mathbb{H}	
evening max el	1821 Mar 08 21:28	6° \mathbb{Y} 14'07	18°18'38	asc. node	1822 Feb 14 20:46	12° \mathbb{H} 15'03	
retrograde	1821 Mar 16 01:39	9° \mathbb{Y} 48'15		evening max el	1822 Feb 20 08:24	19° \mathbb{H} 16'05	18°07'21
evening set	1821 Mar 18 13:27	9° \mathbb{Y} 23'26		retrograde	1822 Feb 26 23:05	22° \mathbb{H} 40'19	
inferior conj	1821 Mar 25 16:46	4° \mathbb{Y} 43'29	3°04'39	evening set	1822 Mar 01 16:08	22° \mathbb{H} 05'55	
minimum elong	1821 Mar 25 20:16	4° \mathbb{Y} 36'01	3°03'59	inferior conj	1822 Mar 08 04:44	17° \mathbb{H} 05'06	3°36'23
min. Earth dist.	1821 Mar 29 03:00	1° \mathbb{Y} 49'51	0.59272 AU	minimum elong	1822 Mar 08 06:21	17° \mathbb{H} 01'07	3°36'15
	1821 Mar 31 14:15	30° \mathbb{R} \mathbb{H}		min. Earth dist.	1822 Mar 11 07:05	14° \mathbb{H} 03'44	0.61414 AU
morning rise	1821 Apr 02 00:35	29° \mathbb{H} 07'15		morning rise	1822 Mar 14 18:58	11° \mathbb{H} 11'08	
desc. node	1821 Apr 07 09:36	27° \mathbb{H} 21'46		direct	1822 Mar 21 15:02	8° \mathbb{H} 49'26	
direct	1821 Apr 08 08:24	27° \mathbb{H} 19'21		desc. node	1822 Mar 25 06:38	9° \mathbb{H} 26'29	
	1821 Apr 16 10:44	0° \mathbb{Y}		morning max el	1822 Apr 04 19:20	16° \mathbb{H} 43'35	27°46'55
morning max el	1821 Apr 22 16:40	5° \mathbb{Y} 04'41	27°13'52		1822 Apr 15 18:29	0° \mathbb{Y}	
	1821 May 11 02:28	0° \mathbb{B}			1822 May 03 17:06	0° \mathbb{B}	
morning set	1821 May 23 11:56	23° \mathbb{B} 26'16		morning set	1822 May 07 16:45	7° \mathbb{B} 57'02	
asc. node	1821 May 26 22:59	0° \mathbb{I} 48'16		max. Earth dist.	1822 May 13 15:46	20° \mathbb{B} 34'29	1.32375 AU
	1821 May 26 14:03	0° \mathbb{I}		asc. node	1822 May 13 20:03	20° \mathbb{B} 57'45	
max. Earth dist.	1821 May 30 04:59	7° \mathbb{I} 54'34	1.32195 AU				
				superior conj	1822 May 15 01:02	23° \mathbb{B} 35'44	0°12'45
superior conj	1821 May 30 14:25	8° \mathbb{I} 46'26	0°37'41	minimum elong	1822 May 15 00:27	23° \mathbb{B} 32'31	0°12'37
minimum elong	1821 May 30 12:50	8° \mathbb{I} 37'43	0°37'21	behind sun begin	1822 May 14 21:20	23° \mathbb{B} 15'33	
evening rise	1821 Jun 06 11:14	23° \mathbb{I} 41'54		behind sun end	1822 May 15 03:33	23° \mathbb{B} 49'30	
	1821 Jun 09 12:22	0° \mathbb{E}			1822 May 17 23:16	0° \mathbb{I}	
	1821 Jun 27 09:02	0° \mathbb{Q}		evening rise	1822 May 21 22:30	8° \mathbb{I} 34'11	
desc. node	1821 Jul 04 08:52	8° \mathbb{Q} 06'49			1822 Jun 02 01:16	0° \mathbb{E}	
evening max el	1821 Jul 05 03:09	8° \mathbb{Q} 51'14	26°09'29	evening max el	1822 Jun 16 19:30	19° \mathbb{E} 47'29	24°48'32
retrograde	1821 Jul 19 02:59	16° \mathbb{Q} 01'59		desc. node	1822 Jun 21 05:52	23° \mathbb{E} 27'58	
evening set	1821 Jul 25 12:12	14° \mathbb{Q} 22'34		retrograde	1822 Jun 30 18:26	26° \mathbb{E} 52'08	
min. Earth dist.	1821 Jul 29 15:50	11° \mathbb{Q} 46'07	0.59166 AU	evening set	1822 Jul 05 22:26	25° \mathbb{E} 51'29	
inferior conj	1821 Aug 01 23:11	9° \mathbb{Q} 16'18	-4°52'35	min. Earth dist.	1822 Jul 11 06:47	23° \mathbb{E} 02'17	0.57203 AU
minimum elong	1821 Aug 02 01:35	9° \mathbb{Q} 11'45	4°52'25	inferior conj	1822 Jul 14 04:57	21° \mathbb{E} 07'09	-4°52'39
morning rise	1821 Aug 09 17:07	4° \mathbb{Q} 46'55		minimum elong	1822 Jul 14 02:28	21° \mathbb{E} 11'15	4°52'30
direct	1821 Aug 12 04:32	4° \mathbb{Q} 25'59		morning rise	1822 Jul 22 09:13	16° \mathbb{E} 59'37	
morning max el	1821 Aug 20 01:53	8° \mathbb{Q} 13'07	18°27'22	direct	1822 Jul 24 23:43	16° \mathbb{E} 40'25	
asc. node	1821 Aug 22 22:10	11° \mathbb{Q} 22'24		morning max el	1822 Aug 03 02:16	20° \mathbb{E} 55'23	19°16'11
	1821 Sep 03 03:42	0° \mathbb{P}		asc. node	1822 Aug 09 19:14	29° \mathbb{E} 18'31	
morning set	1821 Sep 05 04:08	3° \mathbb{P} 51'30			1822 Aug 10 05:54	0° \mathbb{Q}	
				morning set	1822 Aug 20 03:36	18° \mathbb{Q} 10'05	
superior conj	1821 Sep 14 04:25	20° \mathbb{P} 59'36	1°34'36		1822 Aug 26 02:02	0° \mathbb{P}	
minimum elong	1821 Sep 14 07:29	21° \mathbb{P} 13'50	1°34'21				
	1821 Sep 19 03:42	0° \mathbb{Q}		superior conj	1822 Aug 28 07:52	4° \mathbb{P} 23'57	1°44'20
max. Earth dist.	1821 Sep 21 14:48	4° \mathbb{Q} 18'48	1.40251 AU	minimum elong	1822 Aug 28 09:00	4° \mathbb{P} 29'31	1°44'18

max. Earth dist.	1822 Sep 03 18:26	16° \mathbb{M} 33'07	1.38198 AU	asc. node	1823 Jul 27 16:18	17° \mathbb{G} 57'00	
evening rise	1822 Sep 07 13:05	23° \mathbb{M} 18'29			1823 Aug 03 00:19	0° \mathbb{Q}	
	1822 Sep 11 10:43	0° \mathbb{L}		morning set	1823 Aug 04 09:11	2° \mathbb{Q} 46'54	
desc. node	1822 Sep 17 05:12	9° \mathbb{L} 23'38					
	1822 Oct 01 07:57	0° \mathbb{M}		superior conj	1823 Aug 11 23:53	18° \mathbb{Q} 25'51	1°45'20
evening max el	1822 Oct 13 05:23	14° \mathbb{M} 05'11	24°55'34	minimum elong	1823 Aug 11 23:21	18° \mathbb{Q} 23'07	1°45'20
retrograde	1822 Oct 24 22:20	20° \mathbb{M} 53'16		max. Earth dist.	1823 Aug 17 00:36	28° \mathbb{Q} 24'24	1.36287 AU
evening set	1822 Oct 30 14:18	18° \mathbb{M} 30'28			1823 Aug 17 20:29	0° \mathbb{M}	
min. Earth dist.	1822 Nov 04 03:24	13° \mathbb{M} 22'19	0.67354 AU	evening rise	1823 Aug 21 00:02	5° \mathbb{M} 54'58	
inferior conj	1822 Nov 05 02:03	12° \mathbb{M} 07'37	-0°14'08	desc. node	1823 Sep 04 02:13	29° \mathbb{M} 43'28	
minimum elong	1822 Nov 05 02:25	12° \mathbb{M} 06'27	0°13'59		1823 Sep 04 06:31	0° \mathbb{L}	
transit middle	1822 Nov 05 02:25	12° \mathbb{M} 06'27	0°13'59	evening max el	1823 Sep 25 17:19	27° \mathbb{L} 44'42	26°04'13
transit begin	1822 Nov 05 01:00	12° \mathbb{M} 11'05			1823 Sep 28 04:38	0° \mathbb{M}	
transit end	1822 Nov 05 03:49	12° \mathbb{M} 01'50		retrograde	1823 Oct 08 06:41	4° \mathbb{M} 52'21	
asc. node	1822 Nov 05 18:26	11° \mathbb{M} 13'52		evening set	1823 Oct 14 12:41	2° \mathbb{M} 16'28	
morning rise	1822 Nov 10 14:40	6° \mathbb{M} 07'13			1823 Oct 16 20:11	30° \mathbb{R} \mathbb{L}	
direct	1822 Nov 14 04:30	4° \mathbb{M} 53'29		min. Earth dist.	1823 Oct 18 18:19	27° \mathbb{L} 43'55	0.66627 AU
morning max el	1822 Nov 21 15:36	9° \mathbb{M} 08'15	19°49'15	inferior conj	1823 Oct 20 04:05	25° \mathbb{L} 58'36	-1°11'18
	1822 Dec 07 03:28	0° \mathbb{X}		minimum elong	1823 Oct 20 05:57	25° \mathbb{L} 52'46	1°10'32
desc. node	1822 Dec 14 04:28	10° \mathbb{X} 42'21		asc. node	1823 Oct 23 15:29	21° \mathbb{L} 59'00	
morning set	1822 Dec 17 11:31	15° \mathbb{X} 46'39		morning rise	1823 Oct 25 23:36	20° \mathbb{L} 07'18	
	1822 Dec 26 14:18	0° \mathbb{Z}		direct	1823 Oct 29 02:59	19° \mathbb{L} 10'45	
max. Earth dist.	1822 Dec 29 06:33	4° \mathbb{Z} 14'28	1.44171 AU	morning max el	1823 Nov 04 23:44	23° \mathbb{L} 00'05	18°54'49
					1823 Nov 10 16:57	0° \mathbb{M}	
superior conj	1823 Jan 03 01:59	11° \mathbb{Z} 57'33	-1°49'42	morning set	1823 Nov 26 21:44	24° \mathbb{M} 44'25	
minimum elong	1823 Jan 02 19:03	11° \mathbb{Z} 29'30	1°49'13		1823 Nov 30 06:06	0° \mathbb{X}	
	1823 Jan 13 23:28	0° \mathbb{X}		desc. node	1823 Dec 01 01:30	1° \mathbb{X} 16'08	
evening rise	1823 Jan 16 13:10	4° \mathbb{X} 21'45		max. Earth dist.	1823 Dec 11 22:48	18° \mathbb{X} 21'20	1.44995 AU
asc. node	1823 Feb 01 17:47	0° \mathbb{H} 08'48					
	1823 Feb 01 14:56	0° \mathbb{H}		superior conj	1823 Dec 13 09:52	20° \mathbb{X} 39'18	-1°16'32
evening max el	1823 Feb 03 20:58	2° \mathbb{H} 32'47	18°15'17	minimum elong	1823 Dec 13 01:17	20° \mathbb{X} 05'30	1°15'36
retrograde	1823 Feb 10 08:04	6° \mathbb{H} 00'32			1823 Dec 19 07:38	0° \mathbb{Z}	
evening set	1823 Feb 13 06:12	5° \mathbb{H} 15'31		evening rise	1823 Dec 28 16:05	15° \mathbb{Z} 01'26	
inferior conj	1823 Feb 19 07:52	29° \mathbb{X} 55'10	3°44'01		1824 Jan 06 22:12	0° \mathbb{X}	
minimum elong	1823 Feb 19 07:33	29° \mathbb{X} 56'02	3°44'01	evening max el	1824 Jan 18 08:32	15° \mathbb{X} 58'03	18°41'37
	1823 Feb 19 06:07	30° \mathbb{R} \mathbb{X}		asc. node	1824 Jan 19 14:48	17° \mathbb{X} 09'51	
min. Earth dist.	1823 Feb 21 20:24	27° \mathbb{X} 08'34	0.63402 AU	retrograde	1824 Jan 25 00:28	19° \mathbb{X} 40'48	
morning rise	1823 Feb 25 08:00	23° \mathbb{X} 51'08		evening set	1824 Jan 28 04:19	18° \mathbb{X} 44'08	
direct	1823 Mar 04 06:37	21° \mathbb{X} 06'50		inferior conj	1824 Feb 02 22:13	13° \mathbb{X} 05'57	3°33'59
desc. node	1823 Mar 12 03:40	23° \mathbb{X} 59'11		minimum elong	1824 Feb 02 20:30	13° \mathbb{X} 11'10	3°33'45
morning max el	1823 Mar 18 02:50	29° \mathbb{X} 02'20	27°42'31	min. Earth dist.	1824 Feb 04 19:13	10° \mathbb{X} 49'51	0.65065 AU
	1823 Mar 19 01:28	0° \mathbb{H}		morning rise	1824 Feb 08 12:16	6° \mathbb{X} 56'34	
	1823 Apr 09 15:12	0° \mathbb{Y}		direct	1824 Feb 15 05:27	4° \mathbb{X} 04'29	
morning set	1823 Apr 21 15:04	22° \mathbb{Y} 05'09		desc. node	1824 Feb 27 00:43	10° \mathbb{X} 24'12	
	1823 Apr 25 11:59	0° \mathbb{Z}		morning max el	1824 Feb 28 12:24	11° \mathbb{X} 50'49	27°04'19
max. Earth dist.	1823 Apr 26 20:51	2° \mathbb{Z} 52'40	1.32970 AU		1824 Mar 14 00:28	0° \mathbb{H}	
					1824 Apr 01 03:52	0° \mathbb{Y}	
superior conj	1823 Apr 29 08:46	8° \mathbb{Z} 12'14	-0°14'10	morning set	1824 Apr 04 03:55	5° \mathbb{Y} 41'24	
minimum elong	1823 Apr 29 09:27	8° \mathbb{Z} 15'57	0°14'00	max. Earth dist.	1824 Apr 08 16:34	14° \mathbb{Y} 39'42	1.34011 AU
behind sun begin	1823 Apr 29 06:56	8° \mathbb{Z} 02'20					
behind sun end	1823 Apr 29 11:59	8° \mathbb{Z} 29'34		superior conj	1824 Apr 12 11:38	22° \mathbb{Y} 29'55	-0°41'59
asc. node	1823 Apr 30 17:05	11° \mathbb{Z} 06'22		minimum elong	1824 Apr 12 13:45	22° \mathbb{Y} 41'00	0°41'33
evening rise	1823 May 06 10:18	23° \mathbb{Z} 23'53			1824 Apr 16 00:52	0° \mathbb{Z}	
	1823 May 09 14:47	0° \mathbb{II}		asc. node	1824 Apr 16 14:08	1° \mathbb{Z} 10'24	
	1823 May 29 01:45	0° \mathbb{G}		evening rise	1824 Apr 19 20:48	8° \mathbb{Z} 05'11	
evening max el	1823 May 29 09:17	0° \mathbb{G} 18'25	23°13'41		1824 May 01 14:01	0° \mathbb{II}	
desc. node	1823 Jun 08 02:54	6° \mathbb{G} 30'37		evening max el	1824 May 10 04:00	10° \mathbb{II} 55'50	21°40'02
retrograde	1823 Jun 11 21:32	7° \mathbb{G} 03'06		retrograde	1824 May 22 13:07	16° \mathbb{II} 59'55	
evening set	1823 Jun 15 13:25	6° \mathbb{G} 33'40		desc. node	1824 May 24 23:56	16° \mathbb{II} 46'23	
min. Earth dist.	1823 Jun 22 18:59	3° \mathbb{G} 17'17	0.55688 AU	evening set	1824 May 25 01:08	16° \mathbb{II} 45'50	
inferior conj	1823 Jun 24 14:54	2° \mathbb{G} 12'54	-4°09'44	inferior conj	1824 Jun 03 11:02	12° \mathbb{II} 44'06	-2°39'44
minimum elong	1823 Jun 24 07:45	2° \mathbb{G} 23'25	4°08'15	minimum elong	1824 Jun 03 04:02	12° \mathbb{II} 53'54	2°37'28
	1823 Jun 28 14:57	30° \mathbb{R} \mathbb{II}		min. Earth dist.	1824 Jun 03 07:01	12° \mathbb{II} 49'43	0.54953 AU
morning rise	1823 Jul 03 04:38	28° \mathbb{II} 19'04		morning rise	1824 Jun 12 07:52	8° \mathbb{II} 48'32	
direct	1823 Jul 05 23:40	28° \mathbb{II} 00'14		direct	1824 Jun 15 11:23	8° \mathbb{II} 26'48	
	1823 Jul 12 18:49	0° \mathbb{G}		morning max el	1824 Jun 27 17:59	14° \mathbb{II} 13'56	21°55'00
morning max el	1823 Jul 16 15:49	2° \mathbb{G} 56'47	20°26'14		1824 Jul 09 14:49	0° \mathbb{G}	

asc. node	1824 Jul 13 13:23	7°☿07'36		asc. node	1825 Jun 30 10:26	26°♄41'39	
morning set	1824 Jul 18 18:39	17°☿35'49			1825 Jul 02 01:11	0°☿	
	1824 Jul 24 15:37	0°♁		morning set	1825 Jul 03 06:07	2°☿31'08	
superior conj	1824 Jul 26 00:39	2°♁53'57	1°39'17	superior conj	1825 Jul 10 07:13	17°☿39'08	1°27'33
minimum elong	1824 Jul 25 22:57	2°♁45'00	1°39'11	minimum elong	1825 Jul 10 04:55	17°☿26'43	1°27'16
max. Earth dist.	1824 Jul 29 14:45	10°♁19'28	1.34694 AU	max. Earth dist.	1825 Jul 12 14:21	22°☿33'46	1.33484 AU
evening rise	1824 Aug 03 03:43	19°♁19'57			1825 Jul 16 03:58	0°♁	
	1824 Aug 08 21:41	0°♄		evening rise	1825 Jul 17 19:41	3°♁20'59	
desc. node	1824 Aug 20 23:15	19°♄42'42			1825 Aug 01 16:32	0°♄	
	1824 Aug 28 08:03	0°♂		desc. node	1825 Aug 07 20:17	9°♄12'35	
evening max el	1824 Sep 07 05:41	11°♂19'29	26°55'52	evening max el	1825 Aug 20 17:20	24°♄38'00	27°23'14
retrograde	1824 Sep 20 09:33	18°♂35'52			1825 Aug 27 17:08	0°♂	
evening set	1824 Sep 27 04:02	15°♂52'42		retrograde	1825 Sep 03 06:30	1°♂55'59	
min. Earth dist.	1824 Oct 01 02:43	11°♂56'46	0.65550 AU		1825 Sep 09 07:34	30°♄	
inferior conj	1824 Oct 03 00:31	9°♂44'25	-2°09'37	evening set	1825 Sep 10 09:36	29°♄14'26	
minimum elong	1824 Oct 03 03:58	9°♂34'25	2°08'17	min. Earth dist.	1825 Sep 14 02:23	25°♄53'32	0.64117 AU
morning rise	1824 Oct 09 04:34	4°♂05'22		inferior conj	1825 Sep 16 12:56	23°♄19'49	-3°06'34
asc. node	1824 Oct 09 12:34	3°♂55'48		minimum elong	1825 Sep 16 17:43	23°♄07'15	3°04'59
direct	1824 Oct 11 23:53	3°♂22'13		morning rise	1825 Sep 23 02:53	17°♄56'34	
morning max el	1824 Oct 18 13:06	6°♂55'33	18°16'43	direct	1825 Sep 25 16:36	17°♄23'14	
	1824 Nov 03 08:40	0°♄		asc. node	1825 Sep 26 09:37	17°♄25'48	
morning set	1824 Nov 06 12:11	5°♄08'04		morning max el	1825 Oct 02 05:05	20°♄49'13	17°55'48
desc. node	1824 Nov 16 22:32	21°♄57'47			1825 Oct 09 03:48	0°♂	
				morning set	1825 Oct 19 06:19	16°♂52'40	
superior conj	1824 Nov 21 11:39	29°♄10'16	-0°30'06		1825 Oct 27 00:38	0°♄	
minimum elong	1824 Nov 21 07:45	28°♄54'53	0°29'34				
	1824 Nov 22 00:15	0°♂		superior conj	1825 Nov 01 04:38	8°♄29'55	0°17'39
max. Earth dist.	1824 Nov 23 17:58	2°♂44'12	1.45091 AU	minimum elong	1825 Nov 01 06:36	8°♄37'56	0°17'23
evening rise	1824 Dec 07 19:54	24°♂45'56		desc. node	1825 Nov 03 19:34	12°♄44'09	
	1824 Dec 11 04:21	0°♂		max. Earth dist.	1825 Nov 06 12:39	17°♄04'13	1.44451 AU
greatest brilliancy	1824 Dec 19 07:49	12°♂37'10	-0.7m		1825 Nov 14 18:32	0°♂	
evening max el	1824 Dec 31 16:49	29°♂26'43	19°24'56	evening rise	1825 Nov 17 07:16	3°♂54'29	
	1825 Jan 01 06:05	0°♂			1825 Dec 04 16:59	0°♂	
asc. node	1825 Jan 05 11:51	3°♂03'30		evening max el	1825 Dec 14 20:07	12°♂56'44	20°23'13
retrograde	1825 Jan 07 20:54	3°♂34'23		retrograde	1825 Dec 22 18:49	17°♂37'27	
evening set	1825 Jan 11 07:42	2°♂24'46		asc. node	1825 Dec 23 08:53	17°♂35'32	
	1825 Jan 14 00:10	30°♄		evening set	1825 Dec 26 14:10	16°♂13'30	
inferior conj	1825 Jan 16 20:28	26°♂30'57	3°10'50	inferior conj	1825 Dec 31 23:54	10°♂06'46	2°37'45
minimum elong	1825 Jan 16 18:00	26°♂38'58	3°10'18	minimum elong	1825 Dec 31 21:16	10°♂15'42	2°36'59
min. Earth dist.	1825 Jan 18 02:33	24°♂53'25	0.66334 AU	min. Earth dist.	1826 Jan 01 16:37	9°♂10'05	0.67199 AU
morning rise	1825 Jan 22 04:03	20°♂18'45		morning rise	1826 Jan 06 04:12	3°♂53'32	
direct	1825 Jan 28 10:13	17°♂32'26		direct	1826 Jan 11 20:18	1°♂22'39	
morning max el	1825 Feb 09 21:47	24°♂56'33	25°59'40	morning max el	1826 Jan 23 06:23	8°♂11'18	24°38'04
desc. node	1825 Feb 12 21:45	28°♂09'10		desc. node	1826 Jan 30 18:47	16°♂51'13	
	1825 Feb 14 12:08	0°♂			1826 Feb 09 09:04	0°♂	
	1825 Mar 07 11:42	0°♄		morning set	1826 Feb 28 07:24	0°♄23'58	
morning set	1825 Mar 18 03:08	18°♄32'32			1826 Feb 28 01:57	0°♄	
max. Earth dist.	1825 Mar 22 00:48	25°♄55'10	1.35510 AU	max. Earth dist.	1826 Mar 03 23:15	6°♄57'49	1.37409 AU
	1825 Mar 24 02:59	0°♄					
superior conj	1825 Mar 27 07:03	6°♄20'18	-1°09'23	superior conj	1826 Mar 10 15:53	19°♄34'52	-1°34'19
minimum elong	1825 Mar 27 10:29	6°♄37'42	1°08'48	minimum elong	1826 Mar 10 20:06	19°♄55'23	1°33'48
asc. node	1825 Apr 03 11:11	21°♄04'49			1826 Mar 15 22:33	0°♄	
evening rise	1825 Apr 04 03:55	22°♄30'36		evening rise	1826 Mar 19 05:21	6°♄33'33	
	1825 Apr 07 21:27	0°♂		asc. node	1826 Mar 21 08:13	10°♄44'59	
evening max el	1825 Apr 22 09:04	22°♂03'26	20°19'03		1826 Apr 01 16:30	0°♂	
retrograde	1825 May 03 02:31	27°♂15'07		evening max el	1826 Apr 05 01:42	3°♂50'26	19°16'28
evening set	1825 May 05 03:45	27°♂04'32		retrograde	1826 Apr 14 02:56	8°♂13'08	
desc. node	1825 May 11 20:59	24°♂28'19		evening set	1826 Apr 16 05:30	7°♂59'55	
inferior conj	1825 May 14 06:12	23°♂06'20	-0°41'41	inferior conj	1826 Apr 24 14:25	3°♂50'35	1°10'10
minimum elong	1825 May 14 04:15	23°♂09'12	0°40'59	minimum elong	1826 Apr 24 17:10	3°♂46'00	1°09'15
min. Earth dist.	1825 May 15 19:51	22°♂11'08	0.55166 AU	min. Earth dist.	1826 Apr 27 10:40	1°♂57'25	0.56285 AU
morning rise	1825 May 23 03:23	18°♂50'06		desc. node	1826 Apr 28 18:01	1°♂08'33	
direct	1825 May 26 23:02	18°♂18'32			1826 Apr 30 19:22	30°♄	
morning max el	1825 Jun 09 11:27	24°♂54'39	23°35'38	morning rise	1826 May 03 01:54	29°♄00'41	
	1825 Jun 14 04:26	0°♄		direct	1826 May 07 21:16	28°♄07'32	
					1826 May 14 21:53	0°♂	

morning max el	1826 May 22 01:55	5°♄21'41	25°15'25		1827 May 15 03:43	0°♄	
	1826 Jun 08 20:10	0°♄			1827 Jun 01 01:44	0°♄	
asc. node	1826 Jun 17 07:29	16°♄32'28		morning set	1827 Jun 02 04:25	2°♄19'10	
morning set	1826 Jun 17 17:54	17°♄27'20		asc. node	1827 Jun 04 04:31	6°♄34'42	
	1826 Jun 23 13:08	0°♄					
superior conj	1826 Jun 24 17:17	2°♄33'56	1°11'08	superior conj	1827 Jun 09 04:57	17°♄32'08	0°50'51
minimum elong	1826 Jun 24 14:53	2°♄20'53	1°10'44	minimum elong	1827 Jun 09 02:57	17°♄21'08	0°50'28
max. Earth dist.	1826 Jun 25 21:26	5°♄07'33	1.32676 AU	max. Earth dist.	1827 Jun 09 08:52	17°♄53'39	1.32257 AU
evening rise	1826 Jul 01 20:22	17°♄47'19		evening rise	1827 Jun 14 22:28	0°♄	
	1826 Jul 08 01:20	0°♄			1827 Jun 16 02:58	2°♄30'29	
desc. node	1826 Jul 25 17:19	28°♄00'26		desc. node	1827 Jun 30 23:19	0°♄	
	1826 Jul 27 07:12	0°♄		evening max el	1827 Jul 12 14:20	15°♄49'01	
evening max el	1826 Aug 03 01:55	7°♄26'20	27°20'26	retrograde	1827 Jul 16 05:07	19°♄34'04	26°44'34
retrograde	1826 Aug 16 21:01	14°♄42'47		evening set	1827 Jul 30 04:12	26°♄47'42	
evening set	1826 Aug 24 01:44	12°♄15'00		min. Earth dist.	1827 Aug 06 00:01	24°♄47'29	
min. Earth dist.	1826 Aug 27 15:45	9°♄22'29	0.62352 AU	inferior conj	1827 Aug 09 18:56	22°♄10'01	0.60349 AU
inferior conj	1826 Aug 30 14:23	6°♄37'14	-3°58'19	minimum elong	1827 Aug 13 01:31	19°♄28'50	-4°38'29
minimum elong	1826 Aug 30 19:41	6°♄24'47	3°56'59	morning rise	1827 Aug 13 05:40	19°♄20'15	4°37'53
morning rise	1826 Sep 06 15:08	1°♄33'07		direct	1827 Aug 20 13:16	14°♄46'24	
direct	1826 Sep 09 01:46	1°♄06'34		morning max el	1827 Aug 22 23:31	14°♄24'05	
asc. node	1826 Sep 13 06:40	2°♄27'25		asc. node	1827 Aug 30 08:52	18°♄01'14	18°08'56
morning max el	1826 Sep 15 20:42	4°♄33'36	17°52'51		1827 Aug 31 03:42	18°♄48'51	
morning set	1826 Oct 01 22:04	29°♄38'39		morning set	1827 Sep 07 24:00	0°♄	
	1826 Oct 02 02:49	0°♄			1827 Sep 15 05:35	13°♄10'01	
					1827 Sep 24 07:34	0°♄	
superior conj	1826 Oct 12 23:55	19°♄07'23	0°56'58	superior conj	1827 Sep 24 21:08	1°♄01'05	1°24'15
minimum elong	1826 Oct 13 04:26	19°♄26'37	0°56'23	minimum elong	1827 Sep 25 01:10	1°♄19'11	1°23'50
	1826 Oct 19 12:28	0°♄		max. Earth dist.	1827 Oct 02 12:13	14°♄18'09	1.41395 AU
max. Earth dist.	1826 Oct 20 03:14	1°♄00'10	1.43160 AU	evening rise	1827 Oct 07 17:15	22°♄54'18	
desc. node	1826 Oct 21 16:36	3°♄31'25		desc. node	1827 Oct 08 13:37	24°♄16'27	
evening rise	1826 Oct 27 16:52	13°♄03'02			1827 Oct 12 04:18	0°♄	
	1826 Nov 07 20:44	0°♄			1827 Nov 01 22:18	0°♄	
evening max el	1826 Nov 27 17:40	26°♄26'51	21°33'34	evening max el	1827 Nov 10 10:10	9°♄58'59	22°51'38
	1826 Dec 01 20:20	0°♄		retrograde	1827 Nov 20 11:05	15°♄56'35	
retrograde	1826 Dec 06 16:05	1°♄45'50		evening set	1827 Nov 25 05:02	14°♄00'11	
asc. node	1826 Dec 10 05:55	0°♄35'15		asc. node	1827 Nov 27 02:56	12°♄06'52	
evening set	1826 Dec 10 21:50	0°♄06'10		inferior conj	1827 Nov 30 13:44	7°♄38'16	1°09'43
	1826 Dec 11 00:54	30°♄♄		minimum elong	1827 Nov 30 12:12	7°♄43'36	1°09'06
inferior conj	1826 Dec 16 06:18	23°♄49'56	1°56'51	min. Earth dist.	1827 Nov 30 07:48	7°♄58'47	0.67816 AU
minimum elong	1826 Dec 16 04:00	23°♄57'54	1°56'03	morning rise	1827 Dec 05 19:14	1°♄28'30	
min. Earth dist.	1826 Dec 16 11:11	23°♄33'01	0.67683 AU		1827 Dec 08 08:22	30°♄♄	
morning rise	1826 Dec 21 10:00	17°♄37'24		direct	1827 Dec 10 05:34	29°♄41'10	
direct	1826 Dec 26 11:00	15°♄27'22			1827 Dec 12 04:50	0°♄	
morning max el	1827 Jan 05 15:37	21°♄30'43	23°09'44	morning max el	1827 Dec 19 04:50	4°♄56'54	21°43'52
	1827 Jan 12 23:15	0°♄		desc. node	1828 Jan 04 12:50	26°♄05'18	
desc. node	1827 Jan 17 15:49	6°♄13'42			1828 Jan 07 04:57	0°♄	
	1827 Feb 02 16:15	0°♄		morning set	1828 Jan 20 08:23	20°♄11'18	
morning set	1827 Feb 09 10:30	10°♄59'37			1828 Jan 26 09:19	0°♄	
max. Earth dist.	1827 Feb 13 18:09	18°♄20'26	1.39534 AU	max. Earth dist.	1828 Jan 26 17:02	0°♄32'00	1.41627 AU
	1827 Feb 20 07:12	0°♄					
superior conj	1827 Feb 21 10:01	2°♄03'16	-1°53'56	superior conj	1828 Feb 03 08:26	13°♄33'22	-2°04'13
minimum elong	1827 Feb 21 13:46	2°♄20'37	1°53'40	minimum elong	1828 Feb 03 09:32	13°♄38'12	2°04'11
evening rise	1827 Mar 02 22:15	20°♄06'23			1828 Feb 12 11:48	0°♄	
asc. node	1827 Mar 08 05:15	0°♄05'25		evening rise	1828 Feb 14 03:05	3°♄00'39	
	1827 Mar 08 04:04	0°♄		asc. node	1828 Feb 23 02:16	18°♄59'04	
evening max el	1827 Mar 19 03:59	16°♄13'52	18°34'00	evening max el	1828 Mar 01 12:47	29°♄04'50	18°11'30
retrograde	1827 Mar 26 21:23	20°♄01'02			1828 Mar 02 12:52	0°♄	
evening set	1827 Mar 29 05:39	19°♄41'18		retrograde	1828 Mar 08 09:51	2°♄32'41	
inferior conj	1827 Apr 05 19:09	15°♄13'38	2°32'39	evening set	1828 Mar 10 23:58	2°♄03'58	
minimum elong	1827 Apr 05 23:11	15°♄05'46	2°31'38		1828 Mar 14 14:43	30°♄♄	
min. Earth dist.	1827 Apr 09 05:01	12°♄35'25	0.58071 AU	inferior conj	1828 Mar 17 20:35	27°♄15'25	3°21'30
morning rise	1827 Apr 13 13:41	9°♄51'27		minimum elong	1828 Mar 17 23:21	27°♄09'08	3°21'05
desc. node	1827 Apr 15 15:01	9°♄01'27		min. Earth dist.	1828 Mar 21 04:45	24°♄15'11	0.60187 AU
direct	1827 Apr 19 09:55	8°♄24'44		morning rise	1828 Mar 24 20:36	21°♄30'36	
morning max el	1827 May 03 19:05	16°♄02'51	26°38'44	direct	1828 Mar 31 11:04	19°♄27'00	
				desc. node	1828 Apr 01 12:02	19°♄29'58	

morning max el	1828 Apr 14 17:57	27° X 17'22	27°32'23	direct	1829 Mar 13 21:48	1° X 18'38	
	1828 Apr 17 08:10	0° Y		desc. node	1829 Mar 19 09:04	2° X 42'00	
	1828 May 07 18:01	0° B		morning max el	1829 Mar 27 22:47	9° X 13'28	27°49'29
morning set	1828 May 16 11:53	16° B 59'20			1829 Apr 13 00:54	0° Y	
asc. node	1828 May 21 01:33	26° B 42'36			1829 Apr 29 22:09	0° B	
	1828 May 22 13:45	0° II		morning set	1829 Apr 30 14:16	1° B 21'23	
max. Earth dist.	1828 May 22 20:54	0° II 39'10	1.32223 AU	max. Earth dist.	1829 May 06 05:48	13° B 11'39	1.32585 AU
				asc. node	1829 May 07 22:36	16° B 52'10	
superior conj	1828 May 23 16:26	2° II 26'24	0°27'25				
minimum elong	1828 May 23 15:14	2° II 19'47	0°27'09	superior conj	1829 May 08 02:06	17° B 11'10	0°01'33
evening rise	1828 May 30 13:06	17° II 21'29		minimum elong	1829 May 08 02:01	17° B 10'44	0°01'32
	1828 Jun 05 19:16	0° B		behind sun begin	1829 May 07 20:52	16° B 42'48	
	1828 Jun 26 02:51	0° Q		behind sun end	1829 May 08 07:10	17° B 38'41	
evening max el	1828 Jun 27 01:23	0° Q 55'11	25°37'44		1829 May 13 23:45	0° II	
desc. node	1828 Jun 28 11:20	2° Q 12'57		evening rise	1829 May 15 00:51	2° II 13'46	
retrograde	1828 Jul 11 01:52	8° Q 04'06			1829 May 30 04:45	0° B	
evening set	1828 Jul 16 23:51	6° Q 41'33		evening max el	1829 Jun 08 16:03	11° B 37'46	24°08'54
min. Earth dist.	1828 Jul 21 13:38	4° Q 01'26	0.58300 AU	desc. node	1829 Jun 15 08:21	16° B 39'44	
inferior conj	1828 Jul 24 18:45	1° Q 44'14	-4°57'03	retrograde	1829 Jun 22 11:42	18° B 35'13	
minimum elong	1828 Jul 24 19:18	1° Q 43'15	4°57'03	evening set	1829 Jun 27 00:35	17° B 49'35	
	1828 Jul 27 07:08	30° R B		min. Earth dist.	1829 Jul 03 02:53	14° B 50'24	0.56494 AU
morning rise	1828 Aug 01 17:08	27° B 24'15		inferior conj	1829 Jul 05 15:51	13° B 15'40	-4°40'20
direct	1828 Aug 04 05:33	27° B 04'15		minimum elong	1829 Jul 05 11:05	13° B 23'08	4°39'44
	1828 Aug 11 10:09	0° Q		morning rise	1829 Jul 14 00:15	9° B 15'09	
morning max el	1828 Aug 12 14:19	1° Q 02'04	18°45'27	direct	1829 Jul 16 16:43	8° B 56'08	
asc. node	1828 Aug 17 00:45	6° Q 14'09		morning max el	1829 Jul 26 10:12	13° B 27'03	19°43'23
morning set	1828 Aug 29 00:15	27° Q 13'45		asc. node	1829 Aug 03 21:49	24° B 29'26	
	1828 Aug 30 10:15	0° R			1829 Aug 07 02:01	0° Q	
				morning set	1829 Aug 13 02:38	11° Q 40'50	
superior conj	1828 Sep 06 15:05	13° R 56'06	1°39'54				
minimum elong	1828 Sep 06 17:21	14° R 06'47	1°39'47	superior conj	1829 Aug 21 00:24	27° Q 37'27	1°45'43
max. Earth dist.	1828 Sep 13 16:52	26° R 53'49	1.39378 AU	minimum elong	1829 Aug 21 00:46	27° Q 39'19	1°45'43
	1828 Sep 15 11:20	0° B			1829 Aug 22 05:19	0° R	
evening rise	1828 Sep 17 17:01	3° B 50'43		max. Earth dist.	1829 Aug 26 21:15	8° R 56'36	1.37362 AU
desc. node	1828 Sep 24 10:39	14° B 55'22		evening rise	1829 Aug 30 16:13	15° R 53'06	
	1828 Oct 04 08:47	0° R			1829 Sep 07 22:32	0° B	
evening max el	1828 Oct 22 23:25	23° R 34'58	24°11'38	desc. node	1829 Sep 11 07:41	5° B 23'44	
	1828 Nov 01 20:31	0° X			1829 Sep 28 21:56	0° R	
retrograde	1828 Nov 03 02:28	0° X 06'29		evening max el	1829 Oct 05 11:25	7° R 14'04	25°26'27
	1828 Nov 04 07:33	30° R R		retrograde	1829 Oct 17 13:27	14° R 11'04	
evening set	1828 Nov 08 10:11	27° R 53'07		evening set	1829 Oct 23 11:35	11° R 42'12	
asc. node	1828 Nov 12 23:58	22° R 38'44		min. Earth dist.	1829 Oct 27 21:28	6° R 49'11	0.67087 AU
min. Earth dist.	1828 Nov 13 04:02	22° R 25'03	0.67616 AU	inferior conj	1829 Oct 29 00:45	5° R 21'13	-0°38'09
inferior conj	1828 Nov 13 20:29	21° R 29'36	0°17'38	minimum elong	1829 Oct 29 01:43	5° R 18'03	0°37'43
minimum elong	1828 Nov 13 20:03	21° R 31'03	0°17'26	asc. node	1829 Oct 30 21:02	3° R 02'06	
morning rise	1828 Nov 19 05:55	15° R 25'01			1829 Nov 02 20:28	30° R B	
direct	1828 Nov 23 02:48	13° R 59'36		morning rise	1829 Nov 03 16:05	29° B 24'28	
morning max el	1828 Dec 01 01:06	18° R 33'29	20°27'21	direct	1829 Nov 07 01:18	28° B 18'22	
	1828 Dec 10 06:22	0° X			1829 Nov 11 12:28	0° R	
desc. node	1828 Dec 21 09:53	16° X 17'53		morning max el	1829 Nov 14 05:15	2° R 20'37	19°24'14
morning set	1828 Dec 29 07:51	28° X 24'19		greatest brilliancy	1829 Nov 27 21:08	20° R 45'25	-0.7m
	1828 Dec 30 08:30	0° B			1829 Dec 03 22:09	0° X	
max. Earth dist.	1829 Jan 07 23:58	13° B 40'26	1.43395 AU	morning set	1829 Dec 08 07:09	6° X 46'04	
				desc. node	1829 Dec 08 06:54	6° X 45'05	
superior conj	1829 Jan 14 06:08	23° B 54'15	-2°00'15	max. Earth dist.	1829 Dec 21 14:06	27° X 32'44	1.44607 AU
minimum elong	1829 Jan 14 02:13	23° B 37'59	2°00'05		1829 Dec 23 03:16	0° B	
	1829 Jan 17 21:23	0° B					
evening rise	1829 Jan 26 15:46	15° B 08'13		superior conj	1829 Dec 25 01:38	3° B 04'30	-1°37'49
	1829 Feb 04 06:08	0° X		minimum elong	1829 Dec 24 17:13	2° B 30'53	1°37'05
asc. node	1829 Feb 08 23:18	7° X 17'49		evening rise	1830 Jan 08 07:57	26° B 21'03	
evening max el	1829 Feb 13 00:53	12° X 14'40	18°08'29		1830 Jan 10 12:27	0° B	
retrograde	1829 Feb 19 12:43	15° X 38'29		asc. node	1830 Jan 26 20:21	24° B 50'31	
evening set	1829 Feb 22 08:02	14° X 59'32		evening max el	1830 Jan 27 13:19	25° B 35'12	18°24'19
inferior conj	1829 Feb 28 15:32	9° X 50'14	3°42'08	retrograde	1830 Feb 03 01:25	29° B 08'01	
minimum elong	1829 Feb 28 16:18	9° X 48'16	3°42'06	evening set	1830 Feb 06 01:56	28° B 18'02	
min. Earth dist.	1829 Mar 03 12:26	6° X 52'59	0.62294 AU	inferior conj	1830 Feb 11 23:54	22° B 49'34	3°41'35
morning rise	1829 Mar 06 23:21	3° X 51'36		minimum elong	1830 Feb 11 22:55	22° B 52'25	3°41'32

min. Earth dist.	1830 Feb 14 05:43	20° \approx 14'51	0.64153 AU	morning rise	1831 Feb 01 04:50	29° \approx 55'34	
morning rise	1830 Feb 17 19:17	16° \approx 42'53			1831 Feb 01 02:50	30° \approx 5	
direct	1830 Feb 24 16:19	13° \approx 53'52		direct	1831 Feb 07 17:41	27° \approx 04'36	
desc. node	1830 Mar 06 06:06	18° \approx 06'22			1831 Feb 15 06:37	0° \approx	
morning max el	1830 Mar 10 07:36	21° \approx 46'15	27°30'09	morning max el	1831 Feb 20 17:33	4° \approx 43'51	26°39'35
	1830 Mar 17 12:33	0° \approx		desc. node	1831 Feb 21 03:09	5° \approx 08'14	
	1830 Apr 06 04:40	0° \approx			1831 Mar 12 00:49	0° \approx	
morning set	1830 Apr 14 08:59	15° \approx 17'00		morning set	1831 Mar 28 16:38	28° \approx 35'35	
max. Earth dist.	1830 Apr 19 07:37	25° \approx 18'34	1.33362 AU		1831 Mar 29 10:21	0° \approx	
	1830 Apr 21 13:11	0° \approx		max. Earth dist.	1831 Apr 01 22:38	6° \approx 51'19	1.34588 AU
superior conj	1830 Apr 22 08:02	1° \approx 40'09	-0°25'54	superior conj	1831 Apr 06 08:03	15° \approx 46'39	-0°53'45
minimum elong	1830 Apr 22 09:19	1° \approx 47'00	0°25'38	minimum elong	1831 Apr 06 10:45	16° \approx 00'38	0°53'15
asc. node	1830 Apr 24 19:40	6° \approx 59'13		asc. node	1831 Apr 11 16:43	26° \approx 59'22	
evening rise	1830 Apr 29 12:21	17° \approx 00'43			1831 Apr 13 03:16	0° \approx	
	1830 May 05 23:45	0° \approx		evening rise	1831 Apr 13 21:40	1° \approx 35'42	
evening max el	1830 May 21 06:55	22° \approx 07'08	22°32'47		1831 Apr 30 12:30	0° \approx	
desc. node	1830 Jun 02 05:22	28° \approx 34'02		evening max el	1831 May 03 05:29	2° \approx 54'47	21°03'36
retrograde	1830 Jun 03 09:24	28° \approx 37'09		retrograde	1831 May 14 23:06	8° \approx 37'52	
evening set	1830 Jun 06 11:52	28° \approx 15'57		evening set	1831 May 17 04:11	8° \approx 26'24	
min. Earth dist.	1830 Jun 14 14:26	24° \approx 44'33	0.55270 AU	desc. node	1831 May 20 02:23	7° \approx 38'54	
inferior conj	1830 Jun 15 18:45	24° \approx 04'19	-3°36'46	inferior conj	1831 May 26 12:40	4° \approx 27'58	-1°51'09
minimum elong	1830 Jun 15 10:53	24° \approx 15'31	3°34'42	minimum elong	1831 May 26 07:28	4° \approx 35'19	1°49'20
morning rise	1830 Jun 24 12:04	20° \approx 12'32		min. Earth dist.	1831 May 27 02:53	4° \approx 07'52	0.54917 AU
direct	1830 Jun 27 10:08	19° \approx 53'02		morning rise	1831 Jun 04 10:44	0° \approx 25'44	
morning max el	1830 Jul 08 18:51	25° \approx 09'47	21°02'02	direct	1831 Jun 07 19:38	0° \approx 01'10	
	1830 Jul 13 04:46	0° \approx		morning max el	1831 Jun 20 16:59	6° \approx 10'22	22°37'03
asc. node	1830 Jul 21 18:54	13° \approx 22'53			1831 Jul 07 05:55	0° \approx	
morning set	1830 Jul 28 10:10	26° \approx 24'09		asc. node	1831 Jul 08 15:57	2° \approx 44'16	
	1830 Jul 30 03:47	0° \approx		morning set	1831 Jul 12 20:41	11° \approx 16'34	
superior conj	1830 Aug 04 20:37	11° \approx 52'26	1°43'34	superior conj	1831 Jul 20 00:12	26° \approx 29'13	1°34'58
minimum elong	1830 Aug 04 19:31	11° \approx 46'46	1°43'31	minimum elong	1831 Jul 19 22:10	26° \approx 18'27	1°34'46
max. Earth dist.	1830 Aug 09 06:37	20° \approx 48'08	1.35564 AU		1831 Jul 21 16:07	0° \approx	
evening rise	1830 Aug 13 10:54	28° \approx 52'03		max. Earth dist.	1831 Jul 23 00:35	2° \approx 49'22	1.34125 AU
	1830 Aug 14 01:24	0° \approx		evening rise	1831 Jul 27 20:18	12° \approx 33'57	
desc. node	1830 Aug 29 04:43	25° \approx 36'07			1831 Aug 06 08:17	0° \approx	
	1830 Sep 01 03:35	0° \approx		desc. node	1831 Aug 16 01:45	15° \approx 24'16	
evening max el	1830 Sep 17 23:28	20° \approx 52'29	26°28'36		1831 Aug 27 07:18	0° \approx	
retrograde	1830 Sep 30 19:29	28° \approx 05'03		evening max el	1831 Aug 31 11:31	4° \approx 21'14	27°10'45
evening set	1830 Oct 07 07:17	25° \approx 24'50		retrograde	1831 Sep 13 20:08	11° \approx 39'53	
min. Earth dist.	1830 Oct 11 09:47	21° \approx 08'11	0.66216 AU	evening set	1831 Sep 20 18:52	8° \approx 55'52	
inferior conj	1830 Oct 13 00:39	19° \approx 10'36	-1°36'02	min. Earth dist.	1831 Sep 24 14:43	5° \approx 15'19	0.64985 AU
minimum elong	1830 Oct 13 03:12	19° \approx 02'53	1°34'59	inferior conj	1831 Sep 26 18:00	2° \approx 52'38	-2°34'08
asc. node	1830 Oct 17 18:05	14° \approx 13'34		minimum elong	1831 Sep 26 22:04	2° \approx 41'18	2°32'38
morning rise	1830 Oct 18 23:39	13° \approx 24'25			1831 Sep 29 11:22	30° \approx 5	
direct	1830 Oct 21 23:19	12° \approx 34'06		morning rise	1831 Oct 03 02:09	27° \approx 20'04	
morning max el	1830 Oct 28 16:01	16° \approx 15'20	18°36'37	asc. node	1831 Oct 04 15:08	26° \approx 48'43	
	1830 Nov 07 21:04	0° \approx		direct	1831 Oct 05 18:40	26° \approx 41'40	
morning set	1830 Nov 18 04:41	16° \approx 18'52			1831 Oct 12 02:25	0° \approx	
desc. node	1830 Nov 25 03:58	27° \approx 22'49		morning max el	1831 Oct 12 06:53	0° \approx 11'06	18°05'38
	1830 Nov 26 19:48	0° \approx		morning set	1831 Oct 30 07:26	27° \approx 18'24	
superior conj	1830 Dec 04 04:14	11° \approx 33'45	-0°57'49		1831 Oct 31 22:21	0° \approx	
minimum elong	1830 Dec 03 21:02	11° \approx 05'31	0°56'55	desc. node	1831 Nov 12 01:02	18° \approx 06'54	
max. Earth dist.	1830 Dec 04 08:08	11° \approx 49'04	1.45126 AU	superior conj	1831 Nov 13 10:17	20° \approx 19'37	-0°09'18
	1830 Dec 15 21:06	0° \approx		minimum elong	1831 Nov 13 09:07	20° \approx 14'59	0°09'09
evening rise	1830 Dec 20 00:50	6° \approx 36'11		behind sun begin	1831 Nov 13 00:09	19° \approx 39'17	
greatest brilliancy	1830 Dec 28 11:49	20° \approx 03'52	-0.8m	behind sun end	1831 Nov 13 18:04	20° \approx 50'40	
	1831 Jan 03 23:12	0° \approx		max. Earth dist.	1831 Nov 17 02:49	26° \approx 10'25	1.44903 AU
evening max el	1831 Jan 10 23:37	9° \approx 01'21	18°58'02		1831 Nov 19 13:12	0° \approx	
asc. node	1831 Jan 13 17:24	11° \approx 24'15		evening rise	1831 Nov 29 20:14	16° \approx 01'17	
retrograde	1831 Jan 17 20:01	12° \approx 54'00			1831 Dec 08 22:14	0° \approx	
evening set	1831 Jan 21 02:34	11° \approx 52'02		greatest brilliancy	1831 Dec 13 04:57	6° \approx 27'54	-0.7m
inferior conj	1831 Jan 26 17:59	6° \approx 06'41	3°25'31	evening max el	1831 Dec 25 05:52	22° \approx 30'22	19°48'06
minimum elong	1831 Jan 26 15:52	6° \approx 13'18	3°25'11	asc. node	1831 Dec 31 14:24	26° \approx 34'38	
min. Earth dist.	1831 Jan 28 08:26	4° \approx 06'23	0.65649 AU	retrograde	1832 Jan 01 17:21	26° \approx 51'37	

evening set	1832 Jan 05 07:28	25° Z 36'17		asc. node	1832 Dec 17 11:25	10° Z 37'51	
inferior conj	1832 Jan 10 18:44	19° Z 36'42	2°57'53	evening set	1832 Dec 19 14:36	9° Z 26'34	
minimum elong	1832 Jan 10 16:07	19° Z 45'21	2°57'14	inferior conj	1832 Dec 24 23:38	3° Z 15'39	2°21'16
min. Earth dist.	1832 Jan 11 19:01	18° Z 16'10	0.66745 AU	minimum elong	1832 Dec 24 21:05	3° Z 24'24	2°20'26
morning rise	1832 Jan 16 00:31	13° Z 23'39		min. Earth dist.	1832 Dec 25 11:14	2° Z 35'53	0.67453 AU
direct	1832 Jan 22 00:57	10° Z 42'41			1832 Dec 27 10:15	30° R Z	
morning max el	1832 Feb 03 02:31	17° Z 54'06	25°26'25	morning rise	1832 Dec 30 03:22	27° Z 02'32	
desc. node	1832 Feb 08 00:12	23° Z 19'50		direct	1833 Jan 04 13:13	24° Z 39'49	
	1832 Feb 13 06:43	0° \approx			1833 Jan 14 06:16	0° Z	
	1832 Mar 04 01:04	0° H		morning max el	1833 Jan 15 10:46	1° Z 09'45	24°00'40
morning set	1832 Mar 10 08:34	11° H 03'47		desc. node	1833 Jan 24 21:14	12° Z 20'37	
max. Earth dist.	1832 Mar 14 01:49	17° H 56'21	1.36263 AU		1833 Feb 06 06:32	0° \approx	
				morning set	1833 Feb 20 02:46	22° \approx 24'05	
superior conj	1832 Mar 19 23:25	29° H 23'10	-1°20'24	max. Earth dist.	1833 Feb 23 21:28	29° \approx 01'33	1.38297 AU
minimum elong	1832 Mar 20 03:17	29° H 42'26	1°19'49		1833 Feb 24 10:32	0° H	
	1832 Mar 20 06:48	0° Y					
evening rise	1832 Mar 28 02:41	15° Y 52'25		superior conj	1833 Mar 03 02:31	12° H 19'18	-1°43'31
asc. node	1832 Mar 28 13:45	16° Y 48'24		minimum elong	1833 Mar 03 06:45	12° H 39'25	1°43'04
	1832 Apr 04 10:31	0° B		evening rise	1833 Mar 12 00:48	29° H 42'53	
evening max el	1832 Apr 14 15:42	14° B 19'50	19°50'11		1833 Mar 12 04:17	0° Y	
retrograde	1832 Apr 24 15:34	19° B 09'15		asc. node	1833 Mar 15 10:46	6° Y 20'32	
evening set	1832 Apr 26 16:17	18° B 58'13		evening max el	1833 Mar 28 12:49	26° Y 22'59	18°56'01
inferior conj	1832 May 05 12:03	14° B 57'10	0°08'12		1833 Apr 03 01:52	0° B	
minimum elong	1832 May 05 12:25	14° B 56'36	0°08'05	retrograde	1833 Apr 05 22:52	0° B 28'11	
transit middle	1832 May 05 12:25	14° B 56'36	0°08'05	evening set	1833 Apr 08 03:55	0° B 12'26	
transit begin	1832 May 05 09:00	15° B 01'51			1833 Apr 08 22:18	30° R Y	
transit end	1832 May 05 15:50	14° B 51'20		inferior conj	1833 Apr 16 04:27	25° Y 55'56	1°49'19
desc. node	1832 May 05 23:24	14° B 39'40		minimum elong	1833 Apr 16 08:09	25° Y 49'20	1°48'11
min. Earth dist.	1832 May 07 16:50	13° B 36'12	0.55535 AU	min. Earth dist.	1833 Apr 19 08:40	23° Y 41'27	0.56984 AU
morning rise	1832 May 14 06:14	10° B 27'03		desc. node	1833 Apr 22 20:25	21° Y 34'40	
direct	1832 May 18 11:22	9° B 47'45		morning rise	1833 Apr 24 09:19	20° Y 51'51	
morning max el	1832 Jun 01 08:26	16° B 42'32	24°18'57	direct	1833 Apr 29 15:57	19° Y 45'25	
	1832 Jun 12 02:07	0° II		morning max el	1833 May 13 23:09	27° Y 10'50	25°53'44
asc. node	1832 Jun 24 13:01	22° II 26'20			1833 May 16 16:32	0° B	
morning set	1832 Jun 26 08:29	26° II 12'55			1833 Jun 05 07:55	0° II	
	1832 Jun 28 03:08	0° E		morning set	1833 Jun 10 19:55	11° II 07'29	
				asc. node	1833 Jun 11 10:03	12° II 22'19	
superior conj	1832 Jul 03 08:31	11° E 19'38	1°21'07				
minimum elong	1832 Jul 03 06:07	11° E 06'36	1°20'47	superior conj	1833 Jun 17 19:27	26° II 16'09	1°02'57
max. Earth dist.	1832 Jul 05 03:33	15° E 11'56	1.33095 AU	minimum elong	1833 Jun 17 17:10	26° II 03'39	1°02'34
evening rise	1832 Jul 10 16:24	26° E 47'22		max. Earth dist.	1833 Jun 18 13:00	27° II 52'25	1.32455 AU
	1832 Jul 12 06:49	0° Q			1833 Jun 19 12:20	0° E	
	1832 Jul 29 16:12	0° P		evening rise	1833 Jun 24 19:54	11° E 21'47	
desc. node	1832 Aug 01 22:45	4° P 37'57			1833 Jul 04 11:57	0° Q	
evening max el	1832 Aug 12 22:16	17° P 28'57	27°25'58	desc. node	1833 Jul 19 19:45	23° Q 02'57	
retrograde	1832 Aug 26 14:36	24° P 46'38		evening max el	1833 Jul 26 05:06	0° P 02'05	27°09'18
evening set	1832 Sep 02 19:12	22° P 09'34			1833 Jul 26 04:14	0° P	
min. Earth dist.	1832 Sep 06 10:19	19° P 01'33	0.63405 AU	retrograde	1833 Aug 09 01:55	7° P 16'27	
inferior conj	1832 Sep 09 02:08	16° P 21'29	-3°29'27	evening set	1833 Aug 16 04:20	4° P 59'08	
minimum elong	1832 Sep 09 07:17	16° P 08'33	3°27'55	min. Earth dist.	1833 Aug 19 19:22	2° P 14'47	0.61525 AU
morning rise	1832 Sep 15 20:36	11° P 05'42			1833 Aug 22 08:19	30° R Q	
direct	1832 Sep 18 08:35	10° P 35'40		inferior conj	1833 Aug 22 21:58	29° Q 29'26	-4°17'15
asc. node	1832 Sep 20 12:11	10° P 58'20		minimum elong	1833 Aug 23 03:03	29° Q 18'07	4°16'12
morning max el	1832 Sep 24 23:02	14° P 01'25	17°52'10	morning rise	1833 Aug 30 03:22	24° Q 33'56	
	1832 Oct 05 23:47	0° A		direct	1833 Sep 01 13:37	24° Q 09'20	
morning set	1832 Oct 11 11:32	9° A 31'23		asc. node	1833 Sep 07 09:14	26° Q 35'41	
	1832 Oct 23 11:17	0° M		morning max el	1833 Sep 08 13:30	27° Q 39'26	17°57'13
					1833 Sep 10 16:35	0° P	
superior conj	1832 Oct 23 13:50	0° M 10'36	0°35'43	morning set	1833 Sep 24 10:42	22° P 39'07	
minimum elong	1832 Oct 23 17:22	0° M 25'10	0°35'13		1833 Sep 28 11:22	0° A	
desc. node	1832 Oct 28 22:03	8° M 53'57					
max. Earth dist.	1832 Oct 29 19:47	10° M 21'14	1.43978 AU	superior conj	1833 Oct 04 20:38	11° A 21'59	1°10'02
evening rise	1832 Nov 08 04:38	25° M 04'17		minimum elong	1833 Oct 05 01:13	11° A 41'54	1°09'30
	1832 Nov 11 09:45	0° Z		max. Earth dist.	1833 Oct 12 08:38	24° A 04'51	1.42463 AU
	1832 Dec 02 03:27	0° Z		desc. node	1833 Oct 15 19:04	29° A 40'51	
evening max el	1832 Dec 07 06:48	6° Z 00'38	20°51'59		1833 Oct 15 23:50	0° M	
retrograde	1832 Dec 15 15:04	10° Z 56'55		evening rise	1833 Oct 18 18:57	4° M 27'34	

	1833 Nov 04 18:45	0°♊		retrograde	1834 Nov 13 05:05	9°♊18'31	
evening max el	1833 Nov 20 02:11	19°♊32'16	22°06'08	evening set	1834 Nov 18 04:51	7°♊14'33	
retrograde	1833 Nov 29 11:27	25°♊07'16		asc. node	1834 Nov 21 05:30	4°♊00'13	
evening set	1833 Dec 03 22:17	23°♊20'26		min. Earth dist.	1834 Nov 23 03:33	1°♊27'20	0.67775 AU
asc. node	1833 Dec 04 08:26	22°♊58'54		inferior conj	1834 Nov 23 14:03	0°♊51'19	0°48'09
inferior conj	1833 Dec 09 06:42	17°♊01'28	1°37'34	minimum elong	1834 Nov 23 12:57	0°♊55'08	0°47'41
minimum elong	1833 Dec 09 04:40	17°♊08'31	1°36'47		1834 Nov 24 05:05	30°♋♌	
min. Earth dist.	1833 Dec 09 06:52	17°♊00'54	0.67789 AU	morning rise	1834 Nov 28 21:00	24°♌43'40	
morning rise	1833 Dec 14 10:54	10°♊50'08		direct	1834 Dec 03 01:21	23°♌06'07	
direct	1833 Dec 19 05:39	8°♊49'43		morning max el	1834 Dec 11 13:22	28°♌02'52	21°09'53
morning max el	1833 Dec 28 21:15	14°♊31'49	22°32'27		1834 Dec 13 09:25	0°♊	
	1834 Jan 10 08:51	0°♋		desc. node	1834 Dec 29 15:20	21°♊58'14	
desc. node	1834 Jan 11 18:17	1°♋56'54			1835 Jan 03 23:54	0°♋	
	1834 Jan 30 06:14	0°♌		morning set	1835 Jan 11 04:04	11°♋04'36	
morning set	1834 Jan 31 17:28	2°♌23'20		max. Earth dist.	1835 Jan 18 20:14	23°♋22'13	1.42437 AU
max. Earth dist.	1834 Feb 05 17:48	10°♌44'49	1.40456 AU		1835 Jan 22 20:20	0°♌	
superior conj	1834 Feb 13 12:54	24°♌24'24	-1°59'43	superior conj	1835 Jan 26 01:17	5°♌25'44	-2°04'34
minimum elong	1834 Feb 13 15:51	24°♌37'42	1°59'34	minimum elong	1835 Jan 26 00:28	5°♌22'17	2°04'33
	1834 Feb 16 14:27	0°♍		evening rise	1835 Feb 06 11:33	25°♌36'03	
evening rise	1834 Feb 23 13:02	13°♍00'21			1835 Feb 08 22:09	0°♍	
asc. node	1834 Mar 02 07:46	25°♍30'15		asc. node	1835 Feb 17 04:48	14°♍10'19	
	1834 Mar 04 23:40	0°♎		evening max el	1835 Feb 23 04:41	21°♍58'09	18°07'48
evening max el	1834 Mar 11 18:11	8°♎58'30	18°21'55	retrograde	1835 Mar 01 20:45	25°♍22'58	
retrograde	1834 Mar 19 01:27	12°♎35'36		evening set	1835 Mar 04 13:00	24°♍50'08	
evening set	1834 Mar 21 12:20	12°♎12'11		inferior conj	1835 Mar 11 03:34	19°♍52'32	3°33'17
inferior conj	1834 Mar 28 18:09	7°♎35'17	2°57'19	minimum elong	1835 Mar 11 05:30	19°♍47'53	3°33'04
minimum elong	1834 Mar 28 21:51	7°♎27'35	2°56'31	min. Earth dist.	1835 Mar 14 07:42	16°♍50'34	0.61097 AU
min. Earth dist.	1834 Apr 01 04:41	4°♎44'53	0.58956 AU	morning rise	1835 Mar 17 20:14	14°♍00'32	
morning rise	1834 Apr 05 04:44	2°♎02'19		direct	1835 Mar 24 15:07	11°♍43'11	
desc. node	1834 Apr 09 17:26	0°♎27'28		desc. node	1835 Mar 27 14:29	12°♍07'44	
direct	1834 Apr 11 09:46	0°♎19'58		morning max el	1835 Apr 07 20:21	19°♍36'57	27°44'23
morning max el	1834 Apr 25 18:31	8°♎03'39	27°05'54		1835 Apr 16 16:49	0°♎	
	1834 May 12 08:18	0°♏			1835 May 05 04:05	0°♏	
morning set	1834 May 26 05:21	25°♏54'42		morning set	1835 May 10 10:58	10°♏28'36	
	1834 May 28 03:44	0°♐		asc. node	1835 May 16 04:08	22°♏36'26	
asc. node	1834 May 29 07:06	2°♐27'07		max. Earth dist.	1835 May 16 12:33	23°♏22'11	1.32321 AU
superior conj	1834 Jun 02 07:13	11°♐12'43	0°41'14	superior conj	1835 May 17 18:10	26°♏03'54	0°16'41
minimum elong	1834 Jun 02 05:30	11°♐03'19	0°40'54	minimum elong	1835 May 17 17:24	25°♏59'45	0°16'32
max. Earth dist.	1834 Jun 02 01:17	10°♐40'04	1.32196 AU		1835 May 19 13:15	0°♐	
evening rise	1834 Jun 09 04:14	26°♐08'39		evening rise	1835 May 24 15:19	11°♐01'08	
	1834 Jun 11 00:39	0°♑			1835 Jun 03 07:59	0°♑	
	1834 Jun 28 06:19	0°♒		evening max el	1835 Jun 19 22:37	22°♑51'48	25°01'52
desc. node	1834 Jul 06 16:45	10°♒18'49		desc. node	1835 Jun 23 13:46	25°♑57'43	
evening max el	1834 Jul 08 05:23	11°♒49'33	26°19'33	retrograde	1835 Jul 03 22:20	29°♑58'10	
retrograde	1834 Jul 22 05:03	19°♒01'15		evening set	1835 Jul 09 07:17	28°♑51'57	
evening set	1834 Jul 28 17:32	17°♒16'03		min. Earth dist.	1835 Jul 14 10:10	26°♑05'35	0.57474 AU
min. Earth dist.	1834 Aug 01 18:17	14°♒40'05	0.59469 AU	inferior conj	1835 Jul 17 10:41	24°♑04'05	-4°55'13
inferior conj	1834 Aug 05 01:53	12°♒06'36	-4°49'46	minimum elong	1835 Jul 17 09:02	24°♑06'52	4°55'08
minimum elong	1834 Aug 05 04:50	12°♒00'52	4°49'30	morning rise	1835 Jul 25 13:27	19°♑53'33	
morning rise	1834 Aug 12 18:14	7°♒33'57		direct	1835 Jul 28 03:17	19°♑34'14	
direct	1834 Aug 15 05:18	7°♒12'42		morning max el	1835 Aug 06 01:03	23°♑44'25	19°07'34
morning max el	1834 Aug 22 23:12	10°♒56'47	18°21'58		1835 Aug 11 07:00	0°♒	
asc. node	1834 Aug 25 06:18	13°♒26'07		asc. node	1835 Aug 12 03:23	1°♒14'41	
	1834 Sep 04 13:55	0°♓		morning set	1835 Aug 22 21:49	20°♒40'46	
morning set	1834 Sep 07 23:28	6°♓25'47			1835 Aug 27 14:27	0°♓	
superior conj	1834 Sep 17 03:25	23°♓44'10	1°32'12	superior conj	1835 Aug 31 04:37	7°♓01'28	1°43'27
minimum elong	1834 Sep 17 06:46	23°♓59'33	1°31'56	minimum elong	1835 Aug 31 06:03	7°♓08'23	1°43'24
	1834 Sep 20 14:27	0°♔		max. Earth dist.	1835 Sep 06 19:27	19°♓25'07	1.38501 AU
max. Earth dist.	1834 Sep 24 15:53	7°♔06'27	1.40552 AU	evening rise	1835 Sep 10 14:55	26°♓10'45	
evening rise	1834 Sep 29 04:47	14°♔45'04			1835 Sep 12 20:18	0°♔	
desc. node	1834 Oct 02 16:05	20°♔23'44		desc. node	1835 Sep 19 13:07	10°♔58'55	
	1834 Oct 08 19:37	0°♕			1835 Oct 02 09:45	0°♕	
	1834 Oct 30 19:25	0°♖		evening max el	1835 Oct 16 05:17	16°♕42'44	24°44'24
evening max el	1834 Nov 02 16:57	3°♖05'35	23°25'43	retrograde	1835 Oct 27 18:53	23°♕27'03	

evening set	1835 Nov 02 08:39	21°♍06'41			1836 Sep 04 13:18	0°♌	
min. Earth dist.	1835 Nov 06 22:58	15°♍53'11	0.67433 AU	desc. node	1836 Sep 05 10:09	1°♌21'13	
inferior conj	1835 Nov 07 19:59	14°♍43'24	-0°05'40		1836 Sep 27 08:01	0°♍	
minimum elong	1835 Nov 07 20:08	14°♍42'56	0°05'36	evening max el	1836 Sep 27 17:18	0°♍22'47	25°54'58
transit middle	1835 Nov 07 20:08	14°♍42'56	0°05'36	retrograde	1836 Oct 10 03:56	7°♍27'55	
transit begin	1835 Nov 07 17:33	14°♍51'31		evening set	1836 Oct 16 07:54	4°♍53'50	
transit end	1835 Nov 07 22:43	14°♍34'22		min. Earth dist.	1836 Oct 20 14:39	0°♍15'52	0.66756 AU
asc. node	1835 Nov 08 02:34	14°♍21'35			1836 Oct 20 19:44	30°♌♌	
morning rise	1835 Nov 13 07:43	8°♍41'44		inferior conj	1836 Oct 21 22:41	28°♌35'02	-1°02'32
direct	1835 Nov 16 23:17	7°♍25'06		minimum elong	1836 Oct 22 00:19	28°♌29'54	1°01'50
morning max el	1835 Nov 24 13:07	11°♍44'38	19°58'36	asc. node	1836 Oct 24 23:38	24°♌59'42	
	1835 Dec 08 08:40	0°♌		morning rise	1836 Oct 27 17:03	22°♌42'08	
desc. node	1835 Dec 16 12:22	12°♌17'38		direct	1836 Oct 30 21:54	21°♌43'11	
morning set	1835 Dec 21 00:08	19°♌11'42		morning max el	1836 Nov 06 20:15	25°♌35'31	19°01'55
	1835 Dec 27 22:34	0°♌			1836 Nov 10 15:24	0°♍	
max. Earth dist.	1836 Jan 01 05:57	6°♌49'20	1.43988 AU	morning set	1836 Nov 29 07:01	27°♍59'02	
					1836 Nov 30 13:56	0°♌	
superior conj	1836 Jan 06 11:31	15°♌15'16	-1°53'06	desc. node	1836 Dec 02 09:25	2°♌50'06	
minimum elong	1836 Jan 06 05:18	14°♌49'57	1°52'43	max. Earth dist.	1836 Dec 13 21:50	20°♌53'32	1.44919 AU
	1836 Jan 15 08:33	0°♌					
evening rise	1836 Jan 19 16:00	7°♌21'03		superior conj	1836 Dec 15 22:03	24°♌03'38	-1°22'40
	1836 Feb 02 10:56	0°♌		minimum elong	1836 Dec 15 13:17	23°♌28'59	1°21'43
asc. node	1836 Feb 04 01:51	2°♌11'08			1836 Dec 19 16:01	0°♌	
evening max el	1836 Feb 06 17:15	5°♌13'24	18°13'00	evening rise	1836 Dec 30 22:26	18°♌09'34	
retrograde	1836 Feb 13 04:17	8°♌39'41			1837 Jan 07 04:27	0°♌	
evening set	1836 Feb 16 01:40	7°♌56'18		evening max el	1837 Jan 20 05:10	18°♌37'52	18°36'36
inferior conj	1836 Feb 22 04:44	2°♌38'53	3°44'05	asc. node	1837 Jan 20 22:54	19°♌21'12	
minimum elong	1836 Feb 22 04:41	2°♌39'01	3°44'05	retrograde	1837 Jan 26 19:47	22°♌17'33	
	1836 Feb 24 15:21	30°♌		evening set	1837 Jan 29 22:47	21°♌22'35	
min. Earth dist.	1836 Feb 24 19:34	29°♌48'53	0.63123 AU	inferior conj	1837 Feb 04 17:40	15°♌46'54	3°36'21
morning rise	1836 Feb 28 06:45	26°♌36'07		minimum elong	1837 Feb 04 16:07	15°♌51'31	3°36'12
direct	1836 Mar 06 05:39	23°♌54'10		min. Earth dist.	1837 Feb 06 16:56	13°♌25'42	0.64844 AU
desc. node	1836 Mar 13 11:32	26°♌20'23		morning rise	1837 Feb 10 08:59	9°♌38'13	
	1836 Mar 18 05:03	0°♌		direct	1837 Feb 17 03:23	6°♌46'29	
morning max el	1836 Mar 20 03:12	1°♌49'57	27°45'27	desc. node	1837 Feb 28 08:34	12°♌30'30	
	1836 Apr 09 22:23	0°♌		morning max el	1837 Mar 02 12:34	14°♌34'28	27°11'54
morning set	1836 Apr 23 10:25	24°♌40'39			1837 Mar 15 02:35	0°♌	
	1836 Apr 26 01:04	0°♌			1837 Apr 02 14:33	0°♌	
max. Earth dist.	1836 Apr 28 18:40	5°♌44'07	1.32855 AU	morning set	1837 Apr 07 00:52	8°♌21'59	
				max. Earth dist.	1837 Apr 11 16:02	17°♌36'17	1.33830 AU
superior conj	1836 May 01 02:28	10°♌42'52	-0°09'58				
minimum elong	1836 May 01 02:57	10°♌45'28	0°09'52	superior conj	1837 Apr 15 06:10	25°♌03'34	-0°37'44
behind sun begin	1836 Apr 30 22:48	10°♌23'05		minimum elong	1837 Apr 15 08:04	25°♌13'32	0°37'22
behind sun end	1836 May 01 07:06	11°♌07'51			1837 Apr 17 14:11	0°♌	
asc. node	1836 May 02 01:10	12°♌45'26		asc. node	1837 Apr 18 22:13	2°♌50'20	
evening rise	1836 May 08 03:09	25°♌51'44		evening rise	1837 Apr 22 13:57	10°♌34'33	
	1836 May 10 02:38	0°♌			1837 May 02 17:28	0°♌	
	1836 May 28 07:25	0°♌		evening max el	1837 May 13 05:57	13°♌59'09	21°53'19
evening max el	1836 May 31 12:27	3°♌24'56	23°28'05	retrograde	1837 May 25 19:54	20°♌10'16	
desc. node	1836 Jun 09 10:48	9°♌23'37		desc. node	1837 May 27 07:48	20°♌05'12	
retrograde	1836 Jun 14 03:10	10°♌13'27		evening set	1837 May 28 11:12	19°♌54'44	
evening set	1836 Jun 18 00:18	9°♌40'24		inferior conj	1837 Jun 06 20:51	15°♌50'57	-2°55'50
min. Earth dist.	1836 Jun 24 22:40	6°♌28'48	0.55876 AU	minimum elong	1837 Jun 06 13:25	16°♌01'21	2°53'33
inferior conj	1836 Jun 26 23:24	5°♌16'20	-4°19'25	min. Earth dist.	1837 Jun 06 10:22	16°♌05'37	0.55008 AU
minimum elong	1836 Jun 26 16:44	5°♌26'17	4°18'10	morning rise	1837 Jun 15 16:56	11°♌57'02	
morning rise	1836 Jul 05 11:47	1°♌21'05		direct	1837 Jun 18 18:57	11°♌36'00	
direct	1836 Jul 08 06:05	1°♌02'15		morning max el	1837 Jun 30 19:57	17°♌15'03	21°40'50
morning max el	1836 Jul 18 16:16	5°♌51'58	20°14'28		1837 Jul 10 19:43	0°♌	
asc. node	1836 Jul 29 00:26	19°♌47'18		asc. node	1837 Jul 15 21:28	8°♌53'27	
	1836 Aug 03 11:57	0°♌		morning set	1837 Jul 21 11:38	20°♌02'33	
morning set	1836 Aug 06 02:39	5°♌15'07			1837 Jul 26 05:13	0°♌	
superior conj	1836 Aug 13 19:01	20°♌58'14	1°45'41	superior conj	1837 Jul 28 18:39	5°♌22'54	1°40'37
minimum elong	1836 Aug 13 18:42	20°♌56'39	1°45'40	minimum elong	1837 Jul 28 17:05	5°♌14'43	1°40'30
	1836 Aug 18 08:40	0°♌		max. Earth dist.	1837 Aug 01 13:50	13°♌12'03	1.34907 AU
max. Earth dist.	1836 Aug 19 00:55	1°♌18'08	1.36558 AU	evening rise	1837 Aug 06 00:25	21°♌57'07	
evening rise	1836 Aug 22 22:58	8°♌38'46			1837 Aug 10 08:06	0°♌	

desc. node	1837 Aug 23 07:11	21° \mathbb{M} 24'09			1838 Jul 17 17:02	0° \mathcal{O}	
	1837 Aug 29 07:55	0° \mathcal{O}		evening rise	1838 Jul 20 14:47	5° \mathcal{O} 53'50	
evening max el	1837 Sep 10 05:39	13° \mathcal{O} 58'57	26°49'34		1838 Aug 02 22:55	0° \mathbb{M}	
retrograde	1837 Sep 23 07:34	21° \mathcal{O} 14'21		desc. node	1838 Aug 10 04:10	10° \mathbb{M} 59'26	
evening set	1837 Sep 30 00:26	18° \mathcal{O} 31'43		evening max el	1838 Aug 23 17:23	27° \mathbb{M} 20'32	27°20'53
min. Earth dist.	1837 Oct 04 00:06	14° \mathcal{O} 30'29	0.65733 AU		1838 Aug 26 17:51	0° \mathcal{O}	
inferior conj	1837 Oct 05 20:04	12° \mathcal{O} 21'52	-2°00'49	retrograde	1838 Sep 06 05:24	4° \mathcal{O} 38'54	
minimum elong	1837 Oct 05 23:17	12° \mathcal{O} 12'27	1°59'32	evening set	1838 Sep 13 07:38	1° \mathcal{O} 56'14	
morning rise	1837 Oct 11 22:46	6° \mathcal{O} 40'54			1838 Sep 15 13:22	30° \mathcal{R} \mathbb{M}	
asc. node	1837 Oct 11 20:41	6° \mathcal{O} 43'39		min. Earth dist.	1838 Sep 17 01:07	28° \mathbb{M} 30'31	0.64354 AU
direct	1837 Oct 14 19:10	5° \mathcal{O} 55'57		inferior conj	1838 Sep 19 09:49	25° \mathbb{M} 59'19	-2°58'09
morning max el	1837 Oct 21 09:00	9° \mathcal{O} 30'56	18°21'22	minimum elong	1838 Sep 19 14:26	25° \mathbb{M} 47'00	2°56'36
	1837 Nov 04 16:08	0° \mathbb{M}		morning rise	1838 Sep 25 22:15	20° \mathbb{M} 33'39	
morning set	1837 Nov 09 17:03	8° \mathbb{M} 09'47		direct	1838 Sep 28 12:36	19° \mathbb{M} 59'08	
desc. node	1837 Nov 19 06:27	23° \mathbb{M} 31'01		asc. node	1838 Sep 28 17:43	19° \mathbb{M} 59'22	
	1837 Nov 23 08:41	0° \mathcal{X}		morning max el	1838 Oct 05 00:48	23° \mathbb{M} 25'39	17°57'49
					1838 Oct 10 06:21	0° \mathcal{O}	
superior conj	1837 Nov 24 23:19	2° \mathcal{X} 32'15	-0°37'31	morning set	1838 Oct 22 07:21	19° \mathcal{O} 43'21	
minimum elong	1837 Nov 24 18:27	2° \mathcal{X} 13'08	0°36'52		1838 Oct 28 09:50	0° \mathbb{M}	
max. Earth dist.	1837 Nov 26 17:03	5° \mathcal{X} 16'25	1.45125 AU				
evening rise	1837 Dec 11 05:32	28° \mathcal{X} 01'58		superior conj	1838 Nov 04 13:00	11° \mathbb{M} 42'04	0°10'49
	1837 Dec 12 11:38	0° \mathcal{Z}		minimum elong	1838 Nov 04 14:15	11° \mathbb{M} 47'07	0°10'38
greatest brilliancy	1837 Dec 21 23:45	14° \mathcal{Z} 50'23	-0.8m	behind sun begin	1838 Nov 04 06:25	11° \mathbb{M} 15'28	
	1838 Jan 01 16:37	0° \mathcal{Z}		behind sun end	1838 Nov 04 22:05	12° \mathbb{M} 18'43	
evening max el	1838 Jan 03 14:00	2° \mathcal{Z} 06'04	19°17'25	desc. node	1838 Nov 06 03:30	14° \mathbb{M} 17'06	
asc. node	1838 Jan 07 19:57	5° \mathcal{Z} 26'01		max. Earth dist.	1838 Nov 09 11:49	19° \mathbb{M} 37'26	1.44591 AU
retrograde	1838 Jan 10 15:50	6° \mathcal{Z} 09'31			1838 Nov 16 02:26	0° \mathcal{X}	
evening set	1838 Jan 14 01:31	5° \mathcal{Z} 01'51		evening rise	1838 Nov 20 18:34	7° \mathcal{X} 13'51	
	1838 Jan 18 23:16	30° \mathcal{R} \mathcal{Z}		greatest brilliancy	1838 Dec 04 22:27	28° \mathcal{X} 40'12	-0.6m
inferior conj	1838 Jan 19 14:53	29° \mathcal{Z} 10'02	3°15'00		1838 Dec 05 20:12	0° \mathcal{Z}	
minimum elong	1838 Jan 19 12:29	29° \mathcal{Z} 17'44	3°14'32	evening max el	1838 Dec 17 18:03	15° \mathcal{Z} 35'43	20°13'37
min. Earth dist.	1838 Jan 20 23:03	27° \mathcal{Z} 26'37	0.66173 AU	retrograde	1838 Dec 25 13:42	20° \mathcal{Z} 11'20	
morning rise	1838 Jan 24 23:14	22° \mathcal{Z} 58'05		asc. node	1838 Dec 25 16:58	20° \mathcal{Z} 11'14	
direct	1838 Jan 31 07:13	20° \mathcal{Z} 10'21		evening set	1838 Dec 29 07:38	18° \mathcal{Z} 49'40	
morning max el	1838 Feb 12 22:10	27° \mathcal{Z} 38'38	26°10'36	inferior conj	1839 Jan 03 17:41	12° \mathcal{Z} 44'34	2°43'19
desc. node	1838 Feb 15 05:37	0° \mathcal{Z} 05'02		minimum elong	1839 Jan 03 15:03	12° \mathcal{Z} 53'30	2°42'34
	1838 Feb 15 03:47	0° \mathcal{Z}		min. Earth dist.	1839 Jan 04 12:18	11° \mathcal{Z} 41'45	0.67096 AU
	1838 Mar 08 19:15	0° \mathcal{X}		morning rise	1839 Jan 08 22:17	6° \mathcal{Z} 31'15	
morning set	1838 Mar 21 02:24	21° \mathcal{X} 20'35		direct	1839 Jan 14 16:32	3° \mathcal{Z} 57'37	
max. Earth dist.	1838 Mar 25 02:04	28° \mathcal{X} 56'08	1.35259 AU	morning max el	1839 Jan 26 06:53	10° \mathcal{Z} 52'41	24°50'52
	1838 Mar 25 15:09	0° \mathcal{Y}		desc. node	1839 Feb 02 02:40	18° \mathcal{Z} 39'51	
					1839 Feb 10 12:55	0° \mathcal{Z}	
superior conj	1838 Mar 30 02:51	8° \mathcal{Y} 58'17	-1°05'20		1839 Mar 01 11:51	0° \mathcal{X}	
minimum elong	1838 Mar 30 06:07	9° \mathcal{Y} 14'53	1°04'46	morning set	1839 Mar 03 09:54	3° \mathcal{X} 22'17	
asc. node	1838 Apr 05 19:15	22° \mathcal{Y} 46'30		max. Earth dist.	1839 Mar 07 01:36	9° \mathcal{X} 58'32	1.37102 AU
evening rise	1838 Apr 06 21:41	25° \mathcal{Y} 02'44					
	1838 Apr 09 08:15	0° \mathcal{B}		superior conj	1839 Mar 13 13:29	22° \mathcal{X} 18'50	-1°30'50
evening max el	1838 Apr 25 09:12	25° \mathcal{B} 01'05	20°30'00	minimum elong	1839 Mar 13 17:39	22° \mathcal{X} 39'12	1°30'16
	1838 May 03 12:35	0° \mathbb{I}			1839 Mar 17 10:38	0° \mathcal{Y}	
retrograde	1838 May 06 09:02	0° \mathbb{I} 21'05		evening rise	1839 Mar 22 00:08	9° \mathcal{Y} 09'34	
evening set	1838 May 08 10:48	0° \mathbb{I} 10'28		asc. node	1839 Mar 23 16:16	12° \mathcal{Y} 29'14	
	1838 May 09 07:40	30° \mathcal{R} \mathcal{B}			1839 Apr 02 13:01	0° \mathcal{B}	
desc. node	1838 May 14 04:47	28° \mathcal{B} 06'56		evening max el	1839 Apr 08 00:10	6° \mathcal{B} 42'26	19°24'34
inferior conj	1838 May 17 15:12	26° \mathcal{B} 12'37	-1°00'00	retrograde	1839 Apr 17 07:11	11° \mathcal{B} 11'50	
minimum elong	1838 May 17 12:21	26° \mathcal{B} 16'44	0°58'57	evening set	1839 Apr 19 08:59	10° \mathcal{B} 59'22	
min. Earth dist.	1838 May 18 22:58	25° \mathcal{B} 26'36	0.55069 AU	inferior conj	1839 Apr 27 20:50	6° \mathcal{B} 52'30	0°54'45
morning rise	1838 May 26 12:56	22° \mathcal{B} 00'40		minimum elong	1839 Apr 27 23:03	6° \mathcal{B} 48'51	0°54'00
direct	1838 May 30 05:27	21° \mathcal{B} 31'20		min. Earth dist.	1839 Apr 30 13:37	5° \mathcal{B} 07'17	0.56061 AU
morning max el	1838 Jun 12 14:27	28° \mathcal{B} 00'37	23°20'25	desc. node	1839 May 01 01:49	4° \mathcal{B} 48'13	
	1838 Jun 14 14:11	0° \mathbb{I}		morning rise	1839 May 06 10:17	2° \mathcal{B} 07'41	
asc. node	1838 Jul 02 18:31	28° \mathbb{I} 24'45		direct	1839 May 11 01:46	1° \mathcal{B} 18'34	
	1838 Jul 03 13:22	0° \mathcal{E}		morning max el	1839 May 25 05:03	8° \mathcal{B} 28'28	25°01'15
morning set	1838 Jul 05 22:54	4° \mathcal{E} 57'44			1839 Jun 10 03:21	0° \mathbb{I}	
				asc. node	1839 Jun 19 15:33	18° \mathbb{I} 13'36	
superior conj	1838 Jul 13 00:31	20° \mathcal{E} 06'33	1°29'39	morning set	1839 Jun 20 10:44	19° \mathbb{I} 54'22	
minimum elong	1838 Jul 12 22:15	19° \mathcal{E} 54'28	1°29'24		1839 Jun 25 03:07	0° \mathcal{E}	
max. Earth dist.	1838 Jul 15 12:04	25° \mathcal{E} 23'31	1.33636 AU				

superior conj	1839 Jun 27 10:10	5°☿00'41	1°13'53	minimum elong	1840 Jun 10 19:38	19°♄47'17	0°53'46
minimum elong	1839 Jun 27 07:46	4°☿47'33	1°13'31	max. Earth dist.	1840 Jun 11 05:04	20°♄39'08	1.32296 AU
max. Earth dist.	1839 Jun 28 18:06	7°☿54'26	1.32767 AU		1840 Jun 15 11:58	0°☿	
evening rise	1839 Jul 04 14:21	20°☿17'14		evening rise	1840 Jun 17 20:14	4°☿58'29	
	1839 Jul 09 12:03	0°♊			1840 Jul 01 04:24	0°♊	
desc. node	1839 Jul 28 01:10	29°♊54'45		desc. node	1840 Jul 13 22:09	17°♊53'30	
	1839 Jul 28 02:46	0°♋		evening max el	1840 Jul 18 06:46	22°♊28'51	26°52'02
evening max el	1839 Aug 06 02:31	10°♋14'15	27°22'55	retrograde	1840 Aug 01 05:25	29°♊42'41	
retrograde	1839 Aug 19 21:05	17°♋31'22		evening set	1840 Aug 08 03:17	27°♊37'44	
evening set	1839 Aug 27 02:02	15°♋00'40		min. Earth dist.	1840 Aug 11 20:52	24°♊58'55	0.60658 AU
min. Earth dist.	1839 Aug 30 16:06	12°♋04'31	0.62634 AU	inferior conj	1840 Aug 15 02:35	22°♊16'06	-4°33'34
inferior conj	1839 Sep 02 13:06	9°♋20'02	-3°51'02	minimum elong	1840 Aug 15 07:04	22°♊06'40	4°32'51
minimum elong	1839 Sep 02 18:24	9°♋07'20	3°49'40	morning rise	1840 Aug 22 12:42	17°♊30'07	
morning rise	1839 Sep 09 12:13	4°♋12'53		direct	1840 Aug 24 22:49	17°♊07'19	
direct	1839 Sep 11 23:05	3°♋45'34		morning max el	1840 Sep 01 05:30	20°♊42'27	18°05'13
asc. node	1839 Sep 15 14:45	4°♋47'46		asc. node	1840 Sep 01 11:49	20°♊57'58	
morning max el	1839 Sep 18 16:40	7°♋12'04	17°52'03		1840 Sep 08 05:33	0°♋	
	1839 Oct 03 12:31	0°♌		morning set	1840 Sep 17 01:45	15°♋46'46	
morning set	1839 Oct 04 20:15	2°♌21'18			1840 Sep 24 18:28	0°♌	
superior conj	1839 Oct 16 04:09	22°♌07'30	0°51'45	superior conj	1840 Sep 26 21:43	3°♌50'19	1°20'53
minimum elong	1839 Oct 16 08:31	22°♌25'57	0°51'11	minimum elong	1840 Sep 27 01:57	4°♌09'08	1°20'27
	1839 Oct 20 21:37	0°♍		max. Earth dist.	1840 Oct 04 12:44	17°♌01'27	1.41682 AU
max. Earth dist.	1839 Oct 23 02:51	3°♍36'58	1.43389 AU	desc. node	1840 Oct 09 21:31	25°♌50'02	
desc. node	1839 Oct 24 00:31	5°♍04'31		evening rise	1840 Oct 10 00:36	26°♌02'24	
evening rise	1839 Oct 31 03:13	16°♍19'27			1840 Oct 12 12:17	0°♍	
	1839 Nov 09 02:40	0°♎			1840 Nov 01 22:27	0°♎	
evening max el	1839 Nov 30 16:28	29°♎06'06	21°22'31	evening max el	1840 Nov 12 09:41	12°♎38'09	22°39'49
	1839 Dec 01 14:13	0°♏		retrograde	1840 Nov 22 06:33	18°♎29'57	
retrograde	1839 Dec 09 11:12	4°♏19'18		evening set	1840 Nov 26 22:36	16°♎36'07	
asc. node	1839 Dec 12 13:59	3°♏25'28		asc. node	1840 Nov 28 11:02	15°♎09'17	
evening set	1839 Dec 13 15:14	2°♏42'11		inferior conj	1840 Dec 02 07:12	10°♎14'56	1°17'15
	1839 Dec 16 07:23	30°♏♎		minimum elong	1840 Dec 02 05:31	10°♎20'46	1°16'34
inferior conj	1839 Dec 18 23:47	26°♎27'12	2°03'33	min. Earth dist.	1840 Dec 02 02:51	10°♎29'59	0.67818 AU
minimum elong	1839 Dec 18 21:24	26°♎35'26	2°02'42	morning rise	1840 Dec 07 12:17	4°♎04'41	
min. Earth dist.	1839 Dec 19 06:24	26°♎04'20	0.67632 AU	direct	1840 Dec 12 00:47	2°♎13'53	
morning rise	1839 Dec 24 03:24	20°♎14'23		morning max el	1840 Dec 21 04:07	7°♎36'16	21°56'12
direct	1839 Dec 29 06:42	18°♎00'54		desc. node	1841 Jan 05 20:47	27°♎45'32	
morning max el	1840 Jan 08 15:48	24°♎11'33	23°22'56		1841 Jan 07 09:54	0°♏	
	1840 Jan 13 20:03	0°♐		morning set	1841 Jan 22 19:20	23°♏34'22	
desc. node	1840 Jan 19 23:44	7°♏57'35			1841 Jan 26 18:14	0°♐	
	1840 Feb 03 23:40	0°♑		max. Earth dist.	1841 Jan 28 18:24	3°♑19'38	1.41331 AU
morning set	1840 Feb 12 17:11	14°♑10'48					
max. Earth dist.	1840 Feb 16 20:22	21°♑15'52	1.39211 AU	superior conj	1841 Feb 05 11:52	16°♑35'23	-2°03'27
	1840 Feb 21 17:57	0°♒		minimum elong	1841 Feb 05 13:33	16°♑42'47	2°03'25
superior conj	1840 Feb 24 10:09	4°♒55'32	-1°51'28		1841 Feb 12 22:03	0°♒	
minimum elong	1840 Feb 24 14:06	5°♒13'54	1°51'09	evening rise	1841 Feb 16 01:26	5°♒48'32	
evening rise	1840 Mar 04 18:32	22°♒47'52		asc. node	1841 Feb 24 10:21	20°♒51'43	
	1840 Mar 08 12:58	0°♓			1841 Mar 02 16:52	0°♓	
asc. node	1840 Mar 09 13:18	1°♓53'21		evening max el	1841 Mar 04 09:22	1°♓49'15	18°13'34
evening max el	1840 Mar 21 01:18	19°♓01'37	18°39'04	retrograde	1841 Mar 11 08:38	5°♓18'51	
retrograde	1840 Mar 28 22:38	22°♓52'49		evening set	1841 Mar 13 21:59	4°♓51'31	
evening set	1840 Mar 31 06:02	22°♓34'12		inferior conj	1841 Mar 20 20:53	0°♓05'59	3°16'02
inferior conj	1840 Apr 07 22:22	18°♓09'40	2°22'21	minimum elong	1841 Mar 20 23:56	29°♓59'12	3°15'31
minimum elong	1840 Apr 08 02:25	18°♓01'58	2°21'15		1841 Mar 20 23:34	30°♓♈	
min. Earth dist.	1840 Apr 11 07:22	15°♓36'51	0.57776 AU	min. Earth dist.	1841 Mar 24 06:00	27°♈07'33	0.59870 AU
morning rise	1840 Apr 15 19:41	12°♓51'52		morning rise	1841 Mar 27 23:37	24°♈24'02	
desc. node	1840 Apr 16 22:51	12°♓23'05		direct	1841 Apr 03 12:01	22°♈25'48	
direct	1840 Apr 21 12:37	11°♓30'29		desc. node	1841 Apr 03 19:55	22°♈26'06	
morning max el	1840 May 05 21:28	19°♓05'53	26°27'53		1841 Apr 17 13:28	0°♓	
	1840 May 15 02:23	0°♉		morning max el	1841 Apr 17 19:20	0°♓14'21	27°26'36
	1840 Jun 01 14:04	0°♊			1841 May 09 02:29	0°♉	
morning set	1840 Jun 03 21:33	4°♊47'06		morning set	1841 May 19 05:36	19°♉29'19	
asc. node	1840 Jun 05 12:36	8°♊14'25		asc. node	1841 May 23 09:39	28°♉21'40	
					1841 May 24 03:44	0°♊	
superior conj	1840 Jun 10 21:44	19°♊58'45	0°54'08	max. Earth dist.	1841 May 25 17:19	3°♊25'43	1.32208 AU




























































































































superior conj	1841 May 26 09:23	4° Π 53'56	0°31'09	superior conj	1842 May 10 19:26	19° \mathcal{B} 40'30	0°05'37
minimum elong	1841 May 26 08:02	4° Π 46'31	0°30'52	minimum elong	1842 May 10 19:10	19° \mathcal{B} 39'04	0°05'33
evening rise	1841 Jun 02 06:01	19° Π 48'52		behind sun begin	1842 May 10 14:19	19° \mathcal{B} 12'43	
	1841 Jun 07 05:48	0° \mathfrak{E}		behind sun end	1842 May 11 00:01	20° \mathcal{B} 05'26	
	1841 Jun 26 09:57	0° Ω			1842 May 15 13:09	0° Π	
evening max el	1841 Jun 30 04:10	3° Ω 57'06	25°49'22	evening rise	1842 May 17 17:40	4° Π 41'31	
desc. node	1841 Jun 30 19:10	4° Ω 32'14			1842 May 31 06:06	0° \mathfrak{E}	
retrograde	1841 Jul 14 04:30	11° Ω 06'34		evening max el	1842 Jun 11 19:19	14° \mathfrak{E} 43'56	24°22'54
evening set	1841 Jul 20 06:42	9° Ω 38'10		desc. node	1842 Jun 17 16:12	19° \mathfrak{E} 19'18	
min. Earth dist.	1841 Jul 24 16:35	6° Ω 59'41	0.58597 AU	retrograde	1842 Jun 25 16:15	21° \mathfrak{E} 44'09	
inferior conj	1841 Jul 27 22:44	4° Ω 37'46	-4°56'17	evening set	1842 Jun 30 10:35	20° \mathfrak{E} 53'26	
minimum elong	1841 Jul 27 23:59	4° Ω 35'28	4°56'13	min. Earth dist.	1842 Jul 06 06:15	17° \mathfrak{E} 58'04	0.56731 AU
morning rise	1841 Aug 04 19:33	0° Ω 14'29		inferior conj	1842 Jul 08 22:49	16° \mathfrak{E} 15'57	-4°45'46
	1841 Aug 05 23:38	30° $\mathfrak{R}\mathfrak{E}$		minimum elong	1842 Jul 08 18:50	16° \mathfrak{E} 22'18	4°45'21
direct	1841 Aug 07 07:37	29° \mathfrak{E} 54'08		morning rise	1842 Jul 17 05:48	12° \mathfrak{E} 13'14	
	1841 Aug 08 15:08	0° Ω		direct	1842 Jul 19 21:35	11° \mathfrak{E} 54'09	
morning max el	1841 Aug 15 12:10	3° Ω 48'01	18°38'42	morning max el	1842 Jul 29 09:39	16° \mathfrak{E} 19'08	19°33'30
asc. node	1841 Aug 19 08:53	8° Ω 14'51		asc. node	1842 Aug 06 05:57	26° \mathfrak{E} 23'29	
morning set	1841 Aug 31 19:04	29° Ω 47'00			1842 Aug 08 09:39	0° Ω	
	1841 Aug 31 21:44	0° \mathfrak{M}		morning set	1842 Aug 15 20:30	14° Ω 11'22	
superior conj	1841 Sep 09 13:01	16° \mathfrak{M} 37'45	1°38'12	superior conj	1842 Aug 23 20:24	0° \mathfrak{M} 13'33	1°45'24
minimum elong	1841 Sep 09 15:34	16° \mathfrak{M} 49'44	1°38'02	minimum elong	1842 Aug 23 21:03	0° \mathfrak{M} 16'43	1°45'22
	1841 Sep 16 21:39	0° \mathfrak{L}			1842 Aug 23 17:39	0° \mathfrak{M}	
max. Earth dist.	1841 Sep 16 18:12	29° \mathfrak{M} 44'55	1.39684 AU	max. Earth dist.	1842 Aug 29 22:18	11° \mathfrak{M} 51'45	1.37648 AU
evening rise	1841 Sep 20 20:48	6° \mathfrak{L} 49'08		evening rise	1842 Sep 02 16:43	18° \mathfrak{M} 42'19	
desc. node	1841 Sep 26 18:32	16° \mathfrak{L} 30'20			1842 Sep 09 06:59	0° \mathfrak{L}	
	1841 Oct 05 13:49	0° \mathfrak{M}		desc. node	1842 Sep 13 15:33	7° \mathfrak{L} 00'42	
evening max el	1841 Oct 25 23:21	26° \mathfrak{M} 13'55	23°59'50		1842 Sep 29 18:54	0° \mathfrak{M}	
	1841 Oct 30 07:05	0° \mathfrak{J}		evening max el	1842 Oct 08 11:20	9° \mathfrak{M} 52'31	25°15'52
retrograde	1841 Nov 05 22:31	2° \mathfrak{J} 40'37		retrograde	1842 Oct 20 10:14	16° \mathfrak{M} 46'35	
evening set	1841 Nov 11 04:11	0° \mathfrak{J} 29'38		evening set	1842 Oct 26 06:15	14° \mathfrak{M} 19'42	
	1841 Nov 11 17:27	30° $\mathfrak{R}\mathfrak{M}$		min. Earth dist.	1842 Oct 30 17:13	9° \mathfrak{M} 21'27	0.67190 AU
asc. node	1841 Nov 15 08:06	25° \mathfrak{M} 47'30		inferior conj	1842 Oct 31 18:54	7° \mathfrak{M} 57'58	-0°29'31
min. Earth dist.	1841 Nov 15 23:16	24° \mathfrak{M} 56'38	0.67670 AU	minimum elong	1842 Oct 31 19:39	7° \mathfrak{M} 55'32	0°29'11
inferior conj	1841 Nov 16 14:10	24° \mathfrak{M} 06'09	0°25'47	asc. node	1842 Nov 02 05:10	6° \mathfrak{M} 08'28	
minimum elong	1841 Nov 16 13:33	24° \mathfrak{M} 08'15	0°25'32	morning rise	1842 Nov 06 09:16	1° \mathfrak{M} 59'58	
morning rise	1841 Nov 21 22:54	18° \mathfrak{M} 00'47		direct	1842 Nov 09 20:03	0° \mathfrak{M} 51'18	
direct	1841 Nov 25 21:42	16° \mathfrak{M} 32'15		morning max el	1842 Nov 17 02:21	4° \mathfrak{M} 57'37	19°32'39
morning max el	1841 Dec 03 23:16	21° \mathfrak{M} 11'32	20°37'59	greatest brilliancy	1842 Nov 30 11:24	22° \mathfrak{M} 50'32	-0.7m
	1841 Dec 11 07:04	0° \mathfrak{J}			1842 Dec 05 04:39	0° \mathfrak{J}	
desc. node	1841 Dec 23 17:49	17° \mathfrak{J} 55'29		desc. node	1842 Dec 10 14:51	8° \mathfrak{J} 20'46	
	1841 Dec 31 15:58	0° \mathfrak{Z}		morning set	1842 Dec 11 18:39	10° \mathfrak{J} 08'15	
morning set	1842 Jan 01 21:03	1° \mathfrak{Z} 52'41			1842 Dec 24 11:33	0° \mathfrak{Z}	
max. Earth dist.	1842 Jan 11 00:22	16° \mathfrak{Z} 21'07	1.43165 AU	max. Earth dist.	1842 Dec 24 13:26	0° \mathfrak{Z} 07'28	1.44468 AU
superior conj	1842 Jan 17 13:28	27° \mathfrak{Z} 06'51	-2°01'57	superior conj	1842 Dec 28 12:33	6° \mathfrak{Z} 26'22	-1°42'28
minimum elong	1842 Jan 17 10:23	26° \mathfrak{Z} 53'59	2°01'52	minimum elong	1842 Dec 28 04:32	5° \mathfrak{Z} 54'16	1°41'47
	1842 Jan 19 06:40	0° \mathfrak{A}		evening rise	1843 Jan 11 12:14	29° \mathfrak{Z} 24'51	
evening rise	1842 Jan 29 16:48	18° \mathfrak{A} 03'39			1843 Jan 11 20:37	0° \mathfrak{A}	
	1842 Feb 05 12:24	0° \mathfrak{H}		asc. node	1843 Jan 29 04:27	26° \mathfrak{A} 56'52	
asc. node	1842 Feb 11 07:24	9° \mathfrak{H} 16'24		evening max el	1843 Jan 30 09:38	28° \mathfrak{A} 15'41	18°20'49
evening max el	1842 Feb 15 21:09	14° \mathfrak{H} 56'33	18°07'40		1843 Feb 01 08:39	0° \mathfrak{H}	
retrograde	1842 Feb 22 09:45	18° \mathfrak{H} 20'15		retrograde	1843 Feb 05 21:16	1° \mathfrak{H} 46'36	
evening set	1842 Feb 25 04:17	17° \mathfrak{H} 42'52		evening set	1843 Feb 08 20:55	0° \mathfrak{H} 58'23	
inferior conj	1842 Mar 03 13:29	12° \mathfrak{H} 36'25	3°40'28		1843 Feb 10 08:52	30° $\mathfrak{R}\mathfrak{A}$	
minimum elong	1842 Mar 03 14:33	12° \mathfrak{H} 33'43	3°40'24	inferior conj	1843 Feb 14 20:06	25° \mathfrak{A} 32'42	3°42'45
min. Earth dist.	1842 Mar 06 12:22	9° \mathfrak{H} 37'22	0.61992 AU	minimum elong	1843 Feb 14 19:20	25° \mathfrak{A} 34'51	3°42'43
morning rise	1842 Mar 09 23:29	6° \mathfrak{H} 39'17		min. Earth dist.	1843 Feb 17 04:16	22° \mathfrak{A} 53'32	0.63893 AU
direct	1842 Mar 16 21:16	4° \mathfrak{H} 10'06		morning rise	1843 Feb 20 17:03	19° \mathfrak{A} 26'47	
desc. node	1842 Mar 21 16:59	5° \mathfrak{H} 14'52		direct	1843 Feb 27 14:45	16° \mathfrak{A} 39'11	
morning max el	1842 Mar 30 23:28	12° \mathfrak{H} 04'39	27°49'21	desc. node	1843 Mar 08 14:02	20° \mathfrak{A} 21'37	
	1842 Apr 14 04:04	0° \mathfrak{Y}		morning max el	1843 Mar 13 07:58	24° \mathfrak{A} 33'06	27°35'14
	1842 May 01 10:13	0° \mathcal{B}			1843 Mar 18 06:42	0° \mathfrak{H}	
morning set	1842 May 03 08:54	3° \mathcal{B} 54'45			1843 Apr 07 13:27	0° \mathfrak{Y}	
max. Earth dist.	1842 May 09 03:04	16° \mathcal{B} 01'36	1.32507 AU	morning set	1843 Apr 17 04:59	17° \mathfrak{Y} 55'29	
asc. node	1842 May 10 06:42	18° \mathcal{B} 31'14		max. Earth dist.	1843 Apr 22 06:11	28° \mathfrak{Y} 13'27	1.33214 AU

	1843 Apr 23 02:27	0°♄		morning max el	1844 Feb 23 17:46	7°♁27'24	26°48'47
					1844 Mar 12 05:39	0°♄	
superior conj	1843 Apr 25 02:03	4°♄12'43	-0°21'40		1844 Mar 29 21:36	0°♄	
minimum elong	1843 Apr 25 03:08	4°♄18'27	0°21'27	morning set	1844 Mar 30 14:29	1°♄20'16	
asc. node	1843 Apr 27 03:44	8°♄39'14		max. Earth dist.	1844 Apr 03 22:46	9°♄50'36	1.34371 AU
evening rise	1843 May 02 05:20	19°♄30'01					
	1843 May 07 09:13	0°♄		superior conj	1844 Apr 08 03:03	18°♄22'59	-0°49'34
evening max el	1843 May 24 09:38	25°♄13'37	22°46'58	minimum elong	1844 Apr 08 05:33	18°♄35'58	0°49'05
	1843 May 30 18:06	0°♄		asc. node	1844 Apr 13 00:45	28°♄40'44	
desc. node	1843 Jun 04 13:14	1°♄39'11			1844 Apr 13 15:49	0°♄	
retrograde	1843 Jun 06 15:54	1°♄49'21		evening rise	1844 Apr 15 15:02	4°♄07'01	
evening set	1843 Jun 09 22:51	1°♄25'34			1844 Apr 30 03:50	0°♄	
	1843 Jun 13 22:40	30°♄		evening max el	1844 May 05 06:44	5°♄57'14	21°16'06
min. Earth dist.	1843 Jun 17 18:01	27°♄59'40	0.55402 AU	retrograde	1844 May 17 06:05	11°♄47'56	
inferior conj	1843 Jun 19 04:05	27°♄10'47	-3°49'31	evening set	1844 May 19 13:11	11°♄35'47	
minimum elong	1843 Jun 18 20:21	27°♄21'55	3°47'39	desc. node	1844 May 21 10:16	11°♄08'53	
morning rise	1843 Jun 27 20:13	23°♄18'41		inferior conj	1844 May 28 22:30	7°♄36'36	-2°08'58
direct	1843 Jun 30 17:05	22°♄59'31		minimum elong	1844 May 28 16:34	7°♄44'56	2°06'56
morning max el	1843 Jul 11 20:04	28°♄08'57	20°49'06	min. Earth dist.	1844 May 29 06:21	7°♄25'32	0.54909 AU
	1843 Jul 13 16:30	0°♄		morning rise	1844 Jun 06 20:16	3°♄37'01	
asc. node	1843 Jul 24 02:59	15°♄11'50		direct	1844 Jun 10 03:06	3°♄13'37	
morning set	1843 Jul 31 03:23	28°♄52'35		morning max el	1844 Jun 22 19:33	9°♄15'17	22°22'02
	1843 Jul 31 16:28	0°♄			1844 Jul 07 14:57	0°♄	
				asc. node	1844 Jul 10 00:00	4°♄29'26	
superior conj	1843 Aug 07 15:13	14°♄24'17	1°44'20	morning set	1844 Jul 14 13:32	13°♄43'46	
minimum elong	1843 Aug 07 14:19	14°♄19'37	1°44'18				
max. Earth dist.	1843 Aug 12 06:21	23°♄42'12	1.35811 AU	superior conj	1844 Jul 21 17:51	28°♄58'12	1°36'37
	1843 Aug 15 12:51	0°♄		minimum elong	1844 Jul 21 15:55	28°♄48'02	1°36'27
evening rise	1843 Aug 16 08:48	1°♄33'40			1844 Jul 22 05:33	0°♄	
desc. node	1843 Aug 31 12:34	27°♄15'48		max. Earth dist.	1844 Jul 24 22:52	5°♄40'44	1.34320 AU
	1843 Sep 02 08:02	0°♄		evening rise	1844 Jul 29 16:15	15°♄09'56	
evening max el	1843 Sep 20 23:14	23°♄31'07	26°20'26		1844 Aug 06 17:14	0°♄	
	1843 Sep 30 02:50	0°♄		desc. node	1844 Aug 17 09:35	17°♄08'04	
retrograde	1843 Oct 03 17:06	0°♄42'23			1844 Aug 26 23:53	0°♄	
	1843 Oct 07 01:43	30°♄		evening max el	1844 Sep 02 11:27	7°♄02'18	27°06'04
evening set	1843 Oct 10 02:55	28°♄03'30		retrograde	1844 Sep 15 18:36	14°♄20'23	
min. Earth dist.	1843 Oct 14 06:28	23°♄41'17	0.66367 AU	evening set	1844 Sep 22 15:52	11°♄36'33	
inferior conj	1843 Oct 15 19:34	21°♄47'49	-1°27'13	min. Earth dist.	1844 Sep 26 12:42	7°♄50'35	0.65188 AU
minimum elong	1843 Oct 15 21:52	21°♄40'45	1°26'15	inferior conj	1844 Sep 28 14:02	5°♄31'23	-2°25'26
asc. node	1843 Oct 20 02:12	17°♄09'28		minimum elong	1844 Sep 28 17:53	5°♄20'29	2°24'00
morning rise	1843 Oct 21 17:20	15°♄59'49		morning rise	1844 Oct 04 20:43	29°♄56'26	
direct	1843 Oct 24 18:12	15°♄07'28			1844 Oct 04 17:50	30°♄	
morning max el	1843 Oct 31 12:13	18°♄51'21	18°42'36	asc. node	1844 Oct 05 23:13	29°♄30'42	
	1843 Nov 09 01:09	0°♄		direct	1844 Oct 07 14:08	29°♄16'28	
morning set	1843 Nov 21 11:57	19°♄27'59			1844 Oct 10 11:02	0°♄	
desc. node	1843 Nov 27 11:52	28°♄56'58		morning max el	1844 Oct 14 02:36	2°♄47'12	18°09'08
	1843 Nov 28 03:51	0°♄		morning set	1844 Nov 01 10:30	0°♄15'33	
					1844 Nov 01 06:44	0°♄	
superior conj	1843 Dec 07 16:32	14°♄58'36	-1°04'42	desc. node	1844 Nov 13 08:54	19°♄40'25	
minimum elong	1843 Dec 07 08:43	14°♄27'54	1°03'45				
max. Earth dist.	1843 Dec 07 06:44	14°♄20'07	1.45095 AU	superior conj	1844 Nov 15 20:43	23°♄38'36	-0°16'40
	1843 Dec 17 05:05	0°♄		minimum elong	1844 Nov 15 18:36	23°♄30'10	0°16'23
evening rise	1843 Dec 23 08:33	9°♄48'07		max. Earth dist.	1844 Nov 19 01:38	28°♄42'37	1.44983 AU
greatest brilliancy	1843 Dec 30 19:32	21°♄45'18	-0.9m		1844 Nov 19 21:18	0°♄	
	1844 Jan 05 01:53	0°♄		evening rise	1844 Dec 02 06:46	19°♄19'56	
evening max el	1844 Jan 13 20:22	11°♄41'12	18°51'59		1844 Dec 09 04:13	0°♄	
asc. node	1844 Jan 16 01:28	13°♄40'27		greatest brilliancy	1844 Dec 15 01:06	8°♄57'22	-0.7m
retrograde	1844 Jan 20 15:06	15°♄30'19		evening max el	1844 Dec 27 03:22	25°♄10'31	19°39'41
evening set	1844 Jan 23 20:40	14°♄30'15		asc. node	1845 Jan 01 22:30	29°♄13'11	
inferior conj	1844 Jan 29 12:53	8°♄47'24	3°28'46	retrograde	1845 Jan 03 12:07	29°♄26'45	
minimum elong	1844 Jan 29 10:55	8°♄53'33	3°28'29	evening set	1845 Jan 07 01:03	28°♄13'28	
min. Earth dist.	1844 Jan 31 05:39	6°♄41'20	0.65450 AU	inferior conj	1845 Jan 12 12:47	22°♄15'55	3°02'41
morning rise	1844 Feb 04 00:46	2°♄36'48		minimum elong	1845 Jan 12 10:13	22°♄24'22	3°02'05
	1844 Feb 08 15:21	30°♄		min. Earth dist.	1845 Jan 13 15:06	20°♄49'20	0.66612 AU
direct	1844 Feb 10 15:13	29°♄45'06		morning rise	1845 Jan 17 19:09	16°♄03'07	
	1844 Feb 12 17:02	0°♄		direct	1845 Jan 23 21:41	13°♄20'01	
desc. node	1844 Feb 23 11:04	7°♄10'38		morning max el	1845 Feb 05 02:49	20°♄36'08	25°38'19

desc. node	1845 Feb 09 08:05	25°♄13'14	direct	1846 Jan 07 09:11	27°♄14'54	
	1845 Feb 13 05:28	0°♄		1846 Jan 14 02:32	0°♄	
	1845 Mar 05 09:39	0°♄	morning max el	1846 Jan 18 11:07	3°♄51'20	24°13'50
morning set	1845 Mar 13 09:02	13°♄56'27	desc. node	1846 Jan 27 05:08	14°♄07'35	
max. Earth dist.	1845 Mar 17 03:30	20°♄57'58 1.35992 AU		1846 Feb 07 12:05	0°♄	
	1845 Mar 21 18:58	0°♄	morning set	1846 Feb 23 06:53	25°♄27'51	
				1846 Feb 25 20:50	0°♄	
superior conj	1845 Mar 22 19:52	2°♄04'15 -1°16'33	max. Earth dist.	1846 Feb 27 00:01	2°♄01'35 1.37985 AU	
minimum elong	1845 Mar 22 23:36	2°♄22'56 1°15'57				
evening rise	1845 Mar 30 20:47	18°♄26'31	superior conj	1846 Mar 06 01:05	15°♄07'01 -1°40'23	
asc. node	1845 Mar 30 21:47	18°♄31'38	minimum elong	1846 Mar 06 05:20	15°♄27'26 1°39'54	
	1845 Apr 05 18:11	0°♄		1846 Mar 13 15:30	0°♄	
evening max el	1845 Apr 17 15:07	17°♄15'44 19°59'55	evening rise	1846 Mar 14 20:08	2°♄21'28	
retrograde	1845 Apr 27 21:03	22°♄12'41	asc. node	1846 Mar 17 18:50	8°♄06'45	
evening set	1845 Apr 29 21:45	22°♄01'54	evening max el	1846 Mar 31 10:42	29°♄13'06 19°02'44	
desc. node	1845 May 08 07:16	18°♄21'26		1846 Apr 01 07:03	0°♄	
inferior conj	1845 May 08 20:02	18°♄02'12 -0°09'17	retrograde	1846 Apr 09 01:49	3°♄24'08	
minimum elong	1845 May 08 19:37	18°♄02'50 0°09'07	evening set	1846 Apr 11 05:57	3°♄09'19	
transit middle	1845 May 08 19:37	18°♄02'50 0°09'07		1846 Apr 17 19:33	30°♄	
transit begin	1845 May 08 16:20	18°♄07'47	inferior conj	1846 Apr 19 09:25	28°♄55'23 1°36'05	
transit end	1845 May 08 22:53	17°♄57'53	minimum elong	1846 Apr 19 12:51	28°♄49'23 1°34'59	
min. Earth dist.	1845 May 10 19:49	16°♄50'10 0.55387 AU	min. Earth dist.	1846 Apr 22 11:12	26°♄48'04 0.56724 AU	
morning rise	1845 May 17 15:28	13°♄37'13	desc. node	1846 Apr 25 04:17	25°♄08'07	
direct	1845 May 21 17:13	13°♄00'49	morning rise	1846 Apr 27 16:43	23°♄56'16	
morning max el	1845 Jun 04 11:28	19°♄49'19 24°03'53	direct	1846 May 02 19:26	22°♄54'44	
	1845 Jun 13 01:34	0°♄		1846 May 16 19:06	0°♄	
asc. node	1845 Jun 26 21:03	24°♄08'37	morning max el	1846 May 17 01:57	0°♄16'22 25°40'53	
morning set	1845 Jun 29 01:14	28°♄39'46		1846 Jun 06 17:50	0°♄	
	1845 Jun 29 16:24	0°♄	morning set	1846 Jun 13 12:52	13°♄35'19	
			asc. node	1846 Jun 13 18:07	14°♄03'02	
superior conj	1845 Jul 06 01:35	13°♄46'49 1°23'30				
minimum elong	1845 Jul 05 23:12	13°♄33'57 1°23'12	superior conj	1846 Jun 20 12:16	28°♄43'06 1°05'58	
max. Earth dist.	1845 Jul 08 00:45	18°♄00'40 1.33225 AU	minimum elong	1846 Jun 20 09:57	28°♄30'21 1°05'34	
evening rise	1845 Jul 13 10:58	29°♄19'14		1846 Jun 21 02:19	0°♄	
	1845 Jul 13 19:04	0°♄	max. Earth dist.	1846 Jun 21 09:32	0°♄39'32 1.32521 AU	
	1845 Jul 30 19:30	0°♄	evening rise	1846 Jun 27 13:34	13°♄51'17	
desc. node	1845 Aug 04 06:36	6°♄27'48		1846 Jul 05 20:46	0°♄	
evening max el	1845 Aug 15 22:37	20°♄14'18 27°25'39	desc. node	1846 Jul 22 03:36	25°♄01'39	
retrograde	1845 Aug 29 13:52	27°♄31'55		1846 Jul 26 09:47	0°♄	
evening set	1845 Sep 05 18:06	24°♄53'08	evening max el	1846 Jul 29 06:11	2°♄53'36 27°13'54	
min. Earth dist.	1845 Sep 09 09:47	21°♄40'40 0.63663 AU	retrograde	1846 Aug 12 02:20	10°♄08'32	
inferior conj	1845 Sep 11 23:44	19°♄02'43 -3°21'26	evening set	1846 Aug 19 05:51	7°♄47'15	
minimum elong	1845 Sep 12 04:46	18°♄49'51 3°19'54	min. Earth dist.	1846 Aug 22 20:20	5°♄00'25 0.61822 AU	
morning rise	1845 Sep 18 16:36	13°♄44'10	inferior conj	1846 Aug 25 21:40	2°♄14'45 -4°10'48	
direct	1845 Sep 21 05:08	13°♄13'01	minimum elong	1846 Aug 26 02:52	2°♄02'57 4°09'39	
asc. node	1845 Sep 22 20:16	13°♄26'16		1846 Aug 28 11:48	30°♄	
morning max el	1845 Sep 27 18:44	16°♄38'40 17°53'02	morning rise	1846 Sep 02 01:27	27°♄16'12	
	1845 Oct 07 06:46	0°♄	direct	1846 Sep 04 11:49	26°♄50'56	
morning set	1845 Oct 14 11:15	12°♄18'56	asc. node	1846 Sep 09 17:20	28°♄51'40	
	1845 Oct 24 20:31	0°♄		1846 Sep 11 01:31	0°♄	
superior conj	1845 Oct 26 20:23	3°♄17'52 0°29'30	morning max el	1846 Sep 11 09:44	0°♄19'39 17°55'15	
minimum elong	1845 Oct 26 23:26	3°♄30'25 0°29'04	morning set	1846 Sep 27 08:00	25°♄19'53	
desc. node	1845 Oct 31 05:55	10°♄27'06		1846 Sep 29 21:43	0°♄	
max. Earth dist.	1845 Nov 01 19:17	12°♄56'57 1.44158 AU	superior conj	1846 Oct 07 23:17	14°♄18'00 1°05'37	
evening rise	1845 Nov 11 15:51	28°♄23'53	minimum elong	1846 Oct 08 03:53	14°♄37'53 1°05'03	
	1845 Nov 12 16:51	0°♄	max. Earth dist.	1846 Oct 15 08:57	26°♄45'56 1.42721 AU	
	1845 Dec 03 01:51	0°♄		1846 Oct 17 08:33	0°♄	
evening max el	1845 Dec 10 05:10	8°♄40'40 20°41'41	desc. node	1846 Oct 18 02:56	1°♄14'15	
retrograde	1845 Dec 18 09:56	13°♄31'19	evening rise	1846 Oct 22 04:15	7°♄41'30	
asc. node	1845 Dec 19 19:32	13°♄20'21		1846 Nov 05 22:55	0°♄	
evening set	1845 Dec 22 08:00	12°♄03'11	evening max el	1846 Nov 23 01:18	22°♄11'44 21°54'35	
inferior conj	1845 Dec 27 17:14	5°♄53'41 2°27'18	retrograde	1846 Dec 02 06:42	27°♄41'06	
minimum elong	1845 Dec 27 14:39	6°♄02'32 2°26'29	evening set	1846 Dec 06 15:45	25°♄56'44	
min. Earth dist.	1845 Dec 28 06:35	5°♄08'05 0.67375 AU	asc. node	1846 Dec 06 16:35	25°♄55'03	
morning rise	1846 Jan 01 21:07	29°♄40'35	inferior conj	1846 Dec 12 00:08	19°♄38'36 1°44'34	
	1846 Jan 01 12:43	30°♄	minimum elong	1846 Dec 11 22:00	19°♄46'00 1°43'47	

min. Earth dist.	1846 Dec 12 01:55	19° ♁ 32'27	0.67761 AU	morning rise	1847 Dec 01 14:00	27° ♁ 19'43	
morning rise	1846 Dec 17 04:08	13° ♁ 26'50		direct	1847 Dec 05 20:24	25° ♁ 38'48	
direct	1846 Dec 22 01:02	11° ♁ 23'07			1847 Dec 13 19:07	0° ♁	
morning max el	1846 Dec 31 21:10	17° ♁ 12'34	22°45'22	morning max el	1847 Dec 14 12:17	0° ♁ 42'10	21°21'30
	1847 Jan 11 10:29	0° ♁		desc. node	1847 Dec 31 23:14	23° ♁ 37'07	
desc. node	1847 Jan 14 02:12	3° ♁ 39'04			1848 Jan 05 06:13	0° ♁	
	1847 Jan 31 14:23	0° ♁		morning set	1848 Jan 14 16:24	14° ♁ 31'27	
morning set	1847 Feb 04 02:01	5° ♁ 39'59		max. Earth dist.	1848 Jan 21 20:58	26° ♁ 06'01	1.42159 AU
max. Earth dist.	1847 Feb 08 19:53	13° ♁ 37'48	1.40135 AU		1848 Jan 24 05:29	0° ♁	
superior conj	1847 Feb 16 14:18	27° ♁ 20'31	-1°57'53	superior conj	1848 Jan 29 06:19	8° ♁ 32'18	-2°04'46
minimum elong	1847 Feb 16 17:36	27° ♁ 35'29	1°57'42	minimum elong	1848 Jan 29 06:15	8° ♁ 31'58	2°04'47
	1847 Feb 18 01:10	0° ♁		evening rise	1848 Feb 09 10:59	28° ♁ 27'17	
evening rise	1847 Feb 26 10:07	15° ♁ 44'39			1848 Feb 10 07:24	0° ♁	
asc. node	1847 Mar 04 15:53	27° ♁ 20'35		asc. node	1848 Feb 19 12:57	16° ♁ 05'56	
	1847 Mar 06 04:23	0° ♁		evening max el	1848 Feb 26 01:06	24° ♁ 41'41	18°08'43
evening max el	1847 Mar 14 15:05	11° ♁ 44'35	18°25'43	retrograde	1848 Mar 03 18:44	28° ♁ 07'18	
retrograde	1847 Mar 22 01:41	15° ♁ 24'59		evening set	1848 Mar 06 10:13	27° ♁ 35'58	
evening set	1847 Mar 24 11:37	15° ♁ 02'55		inferior conj	1848 Mar 13 02:50	22° ♁ 41'35	3°29'31
inferior conj	1847 Mar 31 20:04	10° ♁ 29'13	2°49'10	minimum elong	1848 Mar 13 05:04	22° ♁ 36'18	3°29'16
minimum elong	1847 Mar 31 23:55	10° ♁ 21'22	2°48'17	min. Earth dist.	1848 Mar 16 08:33	19° ♁ 39'39	0.60778 AU
min. Earth dist.	1847 Apr 04 06:37	7° ♁ 42'33	0.58637 AU	morning rise	1848 Mar 19 22:00	16° ♁ 51'51	
morning rise	1847 Apr 08 09:25	4° ♁ 59'44		direct	1848 Mar 26 15:32	14° ♁ 39'02	
desc. node	1847 Apr 12 01:22	3° ♁ 38'19		desc. node	1848 Mar 28 22:25	14° ♁ 53'31	
direct	1847 Apr 14 11:29	3° ♁ 22'55		morning max el	1848 Apr 09 21:28	22° ♁ 31'58	27°40'57
morning max el	1847 Apr 28 20:36	11° ♁ 04'58	26°57'10		1848 Apr 16 12:02	0° ♁	
	1847 May 13 12:28	0° ♁			1848 May 05 14:23	0° ♁	
morning set	1847 May 28 22:44	28° ♁ 24'11		morning set	1848 May 12 05:02	13° ♁ 00'19	
	1847 May 29 16:56	0° ♁		asc. node	1848 May 17 12:13	24° ♁ 15'46	
asc. node	1847 May 31 15:09	4° ♁ 06'52		max. Earth dist.	1848 May 18 09:09	26° ♁ 09'51	1.32278 AU
superior conj	1847 Jun 05 00:03	13° ♁ 40'11	0°44'46	superior conj	1848 May 19 11:14	28° ♁ 32'30	0°20'36
minimum elong	1847 Jun 04 22:14	13° ♁ 30'10	0°44'23	minimum elong	1848 May 19 10:19	28° ♁ 27'25	0°20'23
max. Earth dist.	1847 Jun 04 21:37	13° ♁ 26'44	1.32204 AU		1848 May 20 03:12	0° ♁	
evening rise	1847 Jun 11 21:20	28° ♁ 36'46		evening rise	1848 May 26 08:08	13° ♁ 28'40	
	1847 Jun 12 13:13	0° ♁			1848 Jun 03 15:57	0° ♁	
	1847 Jun 29 06:11	0° ♁		evening max el	1848 Jun 22 01:40	25° ♁ 56'02	25°14'49
desc. node	1847 Jul 09 00:38	12° ♁ 29'42		desc. node	1848 Jun 24 21:39	28° ♁ 25'01	
evening max el	1847 Jul 11 07:29	14° ♁ 47'58	26°28'58		1848 Jun 27 01:58	0° ♁	
retrograde	1847 Jul 25 07:00	22° ♁ 00'32		retrograde	1848 Jul 06 01:53	3° ♁ 03'36	
evening set	1847 Jul 31 22:22	20° ♁ 09'47		evening set	1848 Jul 11 15:35	1° ♁ 51'44	
min. Earth dist.	1847 Aug 04 20:41	17° ♁ 33'46	0.59777 AU		1848 Jul 15 04:51	30° ♁	
inferior conj	1847 Aug 08 04:12	14° ♁ 57'05	-4°46'21	min. Earth dist.	1848 Jul 16 13:30	29° ♁ 07'50	0.57754 AU
minimum elong	1847 Aug 08 07:38	14° ♁ 50'16	4°45'58	inferior conj	1848 Jul 19 15:56	27° ♁ 00'28	-4°56'46
morning rise	1847 Aug 15 18:59	10° ♁ 21'06		minimum elong	1848 Jul 19 15:06	27° ♁ 01'55	4°56'45
direct	1847 Aug 18 05:41	9° ♁ 59'32		morning rise	1848 Jul 27 17:11	22° ♁ 46'43	
morning max el	1847 Aug 25 20:25	13° ♁ 40'56	18°16'58	direct	1848 Jul 30 06:26	22° ♁ 27'12	
asc. node	1847 Aug 27 14:24	15° ♁ 32'01		morning max el	1848 Aug 07 23:33	26° ♁ 32'55	18°59'24
	1847 Sep 05 23:08	0° ♁			1848 Aug 11 02:54	0° ♁	
morning set	1847 Sep 10 19:03	9° ♁ 01'32		asc. node	1848 Aug 13 11:26	3° ♁ 12'08	
				morning set	1848 Aug 24 16:09	23° ♁ 12'21	
superior conj	1847 Sep 20 02:53	26° ♁ 30'49	1°29'35		1848 Aug 28 02:38	0° ♁	
minimum elong	1847 Sep 20 06:29	26° ♁ 47'16	1°29'15	superior conj	1848 Sep 02 01:38	9° ♁ 40'16	1°42'22
	1847 Sep 22 01:09	0° ♁		minimum elong	1848 Sep 02 03:21	9° ♁ 48'33	1°42'17
max. Earth dist.	1847 Sep 27 16:49	9° ♁ 53'34	1.40854 AU	max. Earth dist.	1848 Sep 08 20:29	22° ♁ 16'58	1.38806 AU
evening rise	1847 Oct 02 10:42	17° ♁ 49'40		evening rise	1848 Sep 12 17:13	29° ♁ 04'59	
desc. node	1847 Oct 04 23:57	21° ♁ 57'58			1848 Sep 13 06:01	0° ♁	
	1847 Oct 10 02:35	0° ♁		desc. node	1848 Sep 20 20:59	12° ♁ 34'24	
	1847 Oct 31 12:54	0° ♁			1848 Oct 02 12:33	0° ♁	
evening max el	1847 Nov 05 16:38	5° ♁ 44'37	23°13'45	evening max el	1848 Oct 18 05:15	19° ♁ 21'20	24°33'05
retrograde	1847 Nov 16 00:55	11° ♁ 52'27		retrograde	1848 Oct 29 15:18	26° ♁ 01'28	
evening set	1847 Nov 20 22:36	9° ♁ 51'07		evening set	1848 Nov 04 02:54	23° ♁ 43'35	
asc. node	1847 Nov 23 13:38	7° ♁ 06'45		min. Earth dist.	1848 Nov 08 18:28	18° ♁ 24'53	0.67505 AU
inferior conj	1847 Nov 26 07:37	3° ♁ 28'10	0°55'58	asc. node	1848 Nov 09 10:41	17° ♁ 30'44	
minimum elong	1847 Nov 26 06:20	3° ♁ 32'33	0°55'26	inferior conj	1848 Nov 09 13:52	17° ♁ 20'05	0°02'45
min. Earth dist.	1847 Nov 25 22:41	3° ♁ 58'53	0.67798 AU	minimum elong	1848 Nov 09 13:48	17° ♁ 20'19	0°02'43
	1847 Nov 28 22:52	30° ♁					

transit middle	1848 Nov 09 13:48	17° \mathbb{M} 20'19	0°02'43	evening set	1849 Oct 19 02:55	7° \mathbb{M} 31'35	
transit begin	1848 Nov 09 11:05	17° \mathbb{M} 29'22		min. Earth dist.	1849 Oct 23 10:47	2° \mathbb{M} 48'18	0.66880 AU
transit end	1848 Nov 09 16:30	17° \mathbb{M} 11'17		inferior conj	1849 Oct 24 17:07	1° \mathbb{M} 11'58	-0°53'44
morning rise	1848 Nov 15 00:44	11° \mathbb{M} 17'16		minimum elong	1849 Oct 24 18:31	1° \mathbb{M} 07'33	0°53'09
direct	1848 Nov 18 18:08	9° \mathbb{M} 57'37			1849 Oct 25 15:59	30° \mathbb{R} $\underline{\mathbb{A}}$	
morning max el	1848 Nov 26 10:46	14° \mathbb{M} 21'59	20°08'18	asc. node	1849 Oct 27 07:42	28° $\underline{\mathbb{A}}$ 02'41	
	1848 Dec 08 12:47	0° \mathbb{A}		morning rise	1849 Oct 30 10:23	25° $\underline{\mathbb{A}}$ 17'37	
desc. node	1848 Dec 17 20:16	13° \mathbb{A} 54'03		direct	1849 Nov 02 16:45	24° $\underline{\mathbb{A}}$ 16'11	
morning set	1848 Dec 23 13:05	22° \mathbb{A} 38'43		morning max el	1849 Nov 09 16:53	28° $\underline{\mathbb{A}}$ 11'43	19°09'24
	1848 Dec 28 06:31	0° \mathbb{B}			1849 Nov 11 09:00	0° \mathbb{M}	
max. Earth dist.	1849 Jan 03 05:35	9° \mathbb{B} 26'10	1.43795 AU		1849 Dec 01 21:22	0° \mathbb{A}	
				morning set	1849 Dec 02 16:57	1° \mathbb{A} 16'19	
superior conj	1849 Jan 08 20:34	18° \mathbb{B} 32'33	-1°56'04	desc. node	1849 Dec 04 17:17	4° \mathbb{A} 24'46	
minimum elong	1849 Jan 08 15:07	18° \mathbb{B} 10'16	1°55'46	max. Earth dist.	1849 Dec 16 21:04	23° \mathbb{A} 27'16	1.44830 AU
	1849 Jan 15 17:35	0° \mathbb{A}					
evening rise	1849 Jan 21 18:21	10° \mathbb{A} 19'56		superior conj	1849 Dec 19 10:02	27° \mathbb{A} 28'04	-1°28'25
	1849 Feb 02 11:23	0° \mathbb{H}		minimum elong	1849 Dec 19 01:13	26° \mathbb{A} 53'13	1°27'32
asc. node	1849 Feb 05 09:59	4° \mathbb{H} 13'10			1849 Dec 21 00:20	0° \mathbb{B}	
evening max el	1849 Feb 08 13:33	7° \mathbb{H} 54'55	18°11'02	evening rise	1850 Jan 03 04:15	21° \mathbb{B} 17'03	
retrograde	1849 Feb 15 00:38	11° \mathbb{H} 20'00			1850 Jan 08 11:20	0° \mathbb{A}	
evening set	1849 Feb 17 21:19	10° \mathbb{H} 38'10		evening max el	1850 Jan 23 01:40	21° \mathbb{A} 17'59	18°31'53
inferior conj	1849 Feb 24 01:52	5° \mathbb{H} 23'39	3°43'43	asc. node	1850 Jan 23 07:00	21° \mathbb{A} 31'23	
minimum elong	1849 Feb 24 02:06	5° \mathbb{H} 23'01	3°43'43	retrograde	1850 Jan 29 15:11	24° \mathbb{A} 54'55	
min. Earth dist.	1849 Feb 26 18:55	2° \mathbb{H} 30'40	0.62840 AU	evening set	1850 Feb 01 17:20	24° \mathbb{A} 01'40	
	1849 Mar 01 10:56	30° \mathbb{R} \mathbb{A}		inferior conj	1850 Feb 07 13:14	18° \mathbb{A} 28'26	3°38'29
morning rise	1849 Mar 02 05:50	29° \mathbb{A} 22'15		minimum elong	1850 Feb 07 11:52	18° \mathbb{A} 32'26	3°38'22
direct	1849 Mar 09 04:48	26° \mathbb{A} 43'06		min. Earth dist.	1850 Feb 09 14:47	16° \mathbb{A} 02'21	0.64615 AU
desc. node	1849 Mar 15 19:27	28° \mathbb{A} 44'58		morning rise	1850 Feb 13 05:55	12° \mathbb{A} 20'25	
	1849 Mar 17 18:01	0° \mathbb{H}		direct	1850 Feb 20 01:23	9° \mathbb{A} 29'25	
morning max el	1849 Mar 23 03:34	4° \mathbb{H} 38'42	27°47'35	desc. node	1850 Mar 02 16:29	14° \mathbb{A} 39'17	
	1849 Apr 11 04:33	0° \mathbb{Y}		morning max el	1850 Mar 05 12:45	17° \mathbb{A} 18'58	27°18'51
morning set	1849 Apr 26 05:32	27° \mathbb{Y} 15'46			1850 Mar 16 03:05	0° \mathbb{H}	
	1849 Apr 27 13:52	0° \mathbb{B}			1850 Apr 04 00:44	0° \mathbb{Y}	
max. Earth dist.	1849 May 01 16:17	8° \mathbb{B} 35'22	1.32752 AU	morning set	1850 Apr 09 21:31	11° \mathbb{Y} 01'54	
				max. Earth dist.	1850 Apr 14 15:14	20° \mathbb{Y} 32'28	1.33658 AU
superior conj	1849 May 03 20:02	13° \mathbb{B} 13'25	-0°05'50				
minimum elong	1849 May 03 20:19	13° \mathbb{B} 14'56	0°05'46	superior conj	1850 Apr 18 00:32	27° \mathbb{Y} 36'51	-0°33'31
behind sun begin	1849 May 03 15:25	12° \mathbb{B} 48'29		minimum elong	1850 Apr 18 02:12	27° \mathbb{Y} 45'43	0°33'10
behind sun end	1849 May 04 01:12	13° \mathbb{B} 41'25			1850 Apr 19 03:32	0° \mathbb{B}	
asc. node	1849 May 04 09:15	14° \mathbb{B} 24'59		asc. node	1850 Apr 21 06:17	4° \mathbb{B} 30'31	
evening rise	1849 May 10 19:58	28° \mathbb{B} 19'47		evening rise	1850 Apr 25 07:01	13° \mathbb{B} 03'55	
	1849 May 11 14:58	0° \mathbb{I}			1850 May 03 23:07	0° \mathbb{I}	
	1849 May 28 21:37	0° \mathbb{E}		evening max el	1850 May 16 08:05	17° \mathbb{I} 03'28	22°06'55
evening max el	1849 Jun 03 15:40	6° \mathbb{E} 31'47	23°42'26	retrograde	1850 May 29 02:40	23° \mathbb{I} 21'28	
desc. node	1849 Jun 11 18:40	12° \mathbb{E} 13'11		desc. node	1850 May 29 15:41	23° \mathbb{I} 20'48	
retrograde	1849 Jun 17 08:25	13° \mathbb{E} 23'40		evening set	1850 May 31 21:35	23° \mathbb{I} 04'13	
evening set	1849 Jun 21 11:00	12° \mathbb{E} 46'35		min. Earth dist.	1850 Jun 09 13:42	19° \mathbb{I} 21'41	0.55080 AU
min. Earth dist.	1849 Jun 28 02:12	9° \mathbb{E} 39'33	0.56077 AU	inferior conj	1850 Jun 10 06:35	18° \mathbb{I} 57'59	-3°11'16
inferior conj	1849 Jun 30 07:30	8° \mathbb{E} 19'10	-4°27'57	minimum elong	1850 Jun 09 22:52	19° \mathbb{I} 08'50	3°09'00
minimum elong	1849 Jun 30 01:26	8° \mathbb{E} 28'22	4°26'57	morning rise	1850 Jun 19 01:48	15° \mathbb{I} 05'18	
morning rise	1849 Jul 08 18:28	4° \mathbb{E} 22'16		direct	1850 Jun 22 02:22	14° \mathbb{I} 44'52	
direct	1849 Jul 11 12:09	4° \mathbb{E} 03'23		morning max el	1850 Jul 03 21:42	20° \mathbb{I} 15'54	21°26'59
morning max el	1849 Jul 21 16:22	8° \mathbb{E} 46'23	20°03'12		1850 Jul 11 21:48	0° \mathbb{E}	
asc. node	1849 Jul 31 08:28	21° \mathbb{E} 38'37		asc. node	1850 Jul 18 05:30	10° \mathbb{E} 40'14	
	1849 Aug 04 22:40	0° \mathbb{O}		morning set	1850 Jul 24 04:38	22° \mathbb{E} 30'04	
morning set	1849 Aug 08 20:10	7° \mathbb{O} 44'13			1850 Jul 27 18:34	0° \mathbb{O}	
superior conj	1849 Aug 16 14:18	23° \mathbb{O} 31'45	1°45'50	superior conj	1850 Jul 31 12:45	7° \mathbb{O} 52'49	1°41'47
minimum elong	1849 Aug 16 14:14	23° \mathbb{O} 31'22	1°45'50	minimum elong	1850 Jul 31 11:21	7° \mathbb{O} 45'29	1°41'43
	1849 Aug 19 20:52	0° \mathbb{P}		max. Earth dist.	1850 Aug 04 13:09	16° \mathbb{O} 05'46	1.35127 AU
max. Earth dist.	1849 Aug 22 01:29	4° \mathbb{P} 13'06	1.36831 AU	evening rise	1850 Aug 08 21:22	24° \mathbb{O} 35'37	
evening rise	1849 Aug 25 22:15	11° \mathbb{P} 24'16			1850 Aug 11 18:46	0° \mathbb{P}	
	1849 Sep 05 20:29	0° \mathbb{A}		desc. node	1850 Aug 25 15:00	23° \mathbb{P} 05'12	
desc. node	1849 Sep 07 17:59	2° $\underline{\mathbb{A}}$ 58'57			1850 Aug 30 09:16	0° \mathbb{A}	
	1849 Sep 27 19:06	0° \mathbb{M}		evening max el	1850 Sep 13 05:30	16° $\underline{\mathbb{A}}$ 38'17	26°42'42
evening max el	1849 Sep 30 17:18	3° \mathbb{M} 01'31	25°45'17	retrograde	1850 Sep 26 05:23	23° $\underline{\mathbb{A}}$ 52'45	
retrograde	1849 Oct 13 01:00	10° \mathbb{M} 03'52		evening set	1850 Oct 02 20:34	21° $\underline{\mathbb{A}}$ 10'49	

min. Earth dist.	1850 Oct 06 21:14	17°  04'14	0.65909 AU		1851 Aug 26 16:24	0° 	
inferior conj	1850 Oct 08 15:24	14°  59'24	-1°51'57	retrograde	1851 Sep 09 04:14	7°  20'52	
minimum elong	1850 Oct 08 18:23	14°  50'34	1°50'46	evening set	1851 Sep 16 05:22	4°  37'24	
asc. node	1850 Oct 14 04:43	9°  34'00		min. Earth dist.	1851 Sep 19 23:36	1°  06'38	0.64583 AU
morning rise	1850 Oct 14 16:46	9°  16'36			1851 Sep 21 00:25	30°  R 	
direct	1850 Oct 17 14:17	8°  29'49		inferior conj	1851 Sep 22 06:27	28°  ൬38'11	-2°49'41
morning max el	1850 Oct 24 04:57	12°  06'41	18°26'23	minimum elong	1851 Sep 22 10:53	28°  ൬26'09	2°48'08
	1850 Nov 05 22:55	0°  M		morning rise	1851 Sep 28 17:23	23°  ൬10'06	
morning set	1850 Nov 12 22:31	11°  M13'35		direct	1851 Oct 01 08:25	22°  ൬34'19	
desc. node	1850 Nov 21 14:18	25°  M04'22		asc. node	1851 Oct 01 01:45	22°  ൬34'44	
	1850 Nov 24 17:00	0°  X		morning max el	1851 Oct 07 20:29	26°  ൬01'40	18°00'11
					1851 Oct 11 05:31	0°  A	
superior conj	1850 Nov 28 11:15	5°  X55'26	-0°44'52	morning set	1851 Oct 25 08:49	22°  A35'00	
minimum elong	1850 Nov 28 05:29	5°  X32'46	0°44'07		1851 Oct 29 18:58	0°  M	
max. Earth dist.	1850 Nov 29 16:01	7°  X48'28	1.45143 AU				
	1850 Dec 13 19:07	0°  Z		superior conj	1851 Nov 07 21:52	14°  M55'30	0°03'48
evening rise	1850 Dec 14 14:43	1°  Z17'13		minimum elong	1851 Nov 07 22:20	14°  M57'21	0°03'44
greatest brilliancy	1850 Dec 24 14:27	16°  Z59'21	-0.8m	behind sun begin	1851 Nov 07 12:07	14°  M16'15	
	1851 Jan 02 11:04	0°  ≈		behind sun end	1851 Nov 08 08:33	15°  M38'22	
evening max el	1851 Jan 06 11:02	4°  ≈45'30	19°10'15	desc. node	1851 Nov 08 11:19	15°  M49'30	
asc. node	1851 Jan 10 04:02	7°  ≈46'51		max. Earth dist.	1851 Nov 12 10:43	22°  M09'22	1.44712 AU
retrograde	1851 Jan 13 10:49	8°  ≈45'00			1851 Nov 17 10:31	0°  X	
evening set	1851 Jan 16 19:23	7°  ≈39'20		evening rise	1851 Nov 24 05:39	10°  X32'36	
inferior conj	1851 Jan 22 09:25	1°  ≈49'38	3°18'59		1851 Dec 07 00:28	0°  Z	
minimum elong	1851 Jan 22 07:07	1°  ≈57'00	3°18'33	greatest brilliancy	1851 Dec 08 10:41	2°  Z06'46	-0.6m
	1851 Jan 23 19:49	30°  R  Z		evening max el	1851 Dec 20 15:51	18°  Z14'45	20°04'26
min. Earth dist.	1851 Jan 23 19:44	0°  ≈00'18	0.65999 AU	retrograde	1851 Dec 28 08:35	22°  Z45'21	
morning rise	1851 Jan 27 18:34	25°  Z37'56		asc. node	1851 Dec 28 01:04	22°  Z44'48	
direct	1851 Feb 03 04:18	22°  Z48'56		evening set	1852 Jan 01 01:08	21°  Z55'56	
	1851 Feb 15 14:01	0°  ≈		inferior conj	1852 Jan 06 11:33	15°  Z22'41	2°48'41
morning max el	1851 Feb 15 22:33	0°  ≈21'18	26°21'11	minimum elong	1852 Jan 06 08:55	15°  Z31'32	2°47'59
desc. node	1851 Feb 17 13:31	2°  ≈02'47		min. Earth dist.	1852 Jan 07 08:08	14°  Z13'38	0.66979 AU
	1851 Mar 10 02:09	0°  X		morning rise	1852 Jan 11 16:30	9°  Z09'20	
morning set	1851 Mar 24 01:18	24°  X08'01		direct	1852 Jan 17 12:55	6°  Z32'59	
	1851 Mar 27 03:06	0°  Y		morning max el	1852 Jan 29 07:23	13°  Z34'15	25°03'31
max. Earth dist.	1851 Mar 28 03:08	1°  Y57'16	1.35014 AU	desc. node	1852 Feb 04 10:33	20°  Z29'37	
					1852 Feb 11 15:42	0°  ≈	
superior conj	1851 Apr 01 22:27	11°  Y36'00	-1°01'15		1852 Mar 01 21:25	0°  X	
minimum elong	1851 Apr 02 01:31	11°  Y51'43	1°00'41	morning set	1852 Mar 05 11:54	6°  X19'20	
asc. node	1851 Apr 08 03:20	24°  Y28'21		max. Earth dist.	1852 Mar 09 03:51	12°  X59'54	1.36802 AU
evening rise	1851 Apr 09 15:22	27°  Y34'54					
	1851 Apr 10 19:40	0°  8		superior conj	1852 Mar 15 10:49	25°  X02'12	-1°27'12
evening max el	1851 Apr 28 09:38	28°  800'16	20°41'26	minimum elong	1852 Mar 15 14:54	25°  X22'18	1°26'38
	1851 Apr 30 16:25	0°  II			1852 Mar 17 22:49	0°  Y	
retrograde	1851 May 09 15:52	3°  II28'37		evening rise	1852 Mar 23 18:47	11°  Y45'13	
evening set	1851 May 11 18:27	3°  II17'51		asc. node	1852 Mar 25 00:23	14°  Y13'21	
desc. node	1851 May 16 12:43	1°  II44'16			1852 Apr 02 14:17	0°  8	
	1851 May 19 20:32	30°  R  8		evening max el	1852 Apr 09 22:57	9°  835'40	19°33'07
inferior conj	1851 May 21 00:32	29°  820'04	-1°18'22	retrograde	1852 Apr 19 11:48	14°  811'54	
minimum elong	1851 May 20 20:50	29°  825'23	1°17'01	evening set	1852 Apr 21 13:01	14°  800'04	
min. Earth dist.	1851 May 22 02:15	28°  843'13	0.54994 AU	inferior conj	1852 Apr 30 03:45	9°  855'31	0°38'42
morning rise	1851 May 29 22:35	25°  811'55		minimum elong	1852 Apr 30 05:23	9°  852'54	0°38'07
direct	1851 Jun 02 12:10	24°  844'32		desc. node	1852 May 02 09:46	8°  829'22	
	1851 Jun 14 11:38	0°  II		min. Earth dist.	1852 May 02 16:42	8°  818'33	0.55859 AU
morning max el	1851 Jun 15 17:27	1°  II06'53	23°05'08	morning rise	1852 May 08 19:02	5°  815'50	
asc. node	1851 Jul 05 02:33	0°  808'18		direct	1852 May 13 06:47	4°  830'25	
	1851 Jul 05 00:53	0°  8		morning max el	1852 May 27 08:15	11°  835'34	24°46'41
morning set	1851 Jul 08 15:42	7°  824'34			1852 Jun 10 09:04	0°  II	
				asc. node	1852 Jun 20 23:37	19°  II54'42	
superior conj	1851 Jul 15 17:53	22°  834'26	1°31'39	morning set	1852 Jun 22 03:34	22°  II21'06	
minimum elong	1851 Jul 15 15:42	22°  822'46	1°31'26		1852 Jun 25 17:04	0°  8	
max. Earth dist.	1851 Jul 18 09:54	28°  813'33	1.33799 AU				
	1851 Jul 19 06:16	0°  8		superior conj	1852 Jun 29 03:09	7°  827'23	1°16'34
evening rise	1851 Jul 23 10:05	8° 827'23		minimum elong	1852 Jun 29 00:45	7° 814'13	1°16'12
	1851 Aug 04 06:11	0° ൬		max. Earth dist.	1852 Jun 30 14:53	10° 841'18	1.32873 AU
desc. node	1851 Aug 12 12:01	12° ൬45'16		evening rise	1852 Jul 06 08:32	22° 847'27	
evening max el	1851 Aug 26 17:20	0° A02'13	27°17'53		1852 Jul 09 23:23	0° 8	

	1852 Jul 28 01:18	0°♍		desc. node	1853 Jul 16 06:06	19°♌56'06	
desc. node	1852 Jul 29 09:03	1°♍47'28		evening max el	1853 Jul 21 08:20	25°♌22'25	26°58'46
evening max el	1852 Aug 08 03:04	13°♍00'59	27°24'38		1853 Jul 27 05:07	0°♍	
retrograde	1852 Aug 21 21:00	20°♍18'30		retrograde	1853 Aug 04 06:27	2°♍36'22	
evening set	1852 Aug 29 01:59	17°♍45'17		evening set	1853 Aug 11 06:07	0°♍26'56	
min. Earth dist.	1852 Sep 01 16:18	14°♍45'08	0.62909 AU		1853 Aug 11 23:10	30°♌♌	
inferior conj	1852 Sep 04 11:31	12°♍01'54	-3°43'36	min. Earth dist.	1853 Aug 14 22:36	27°♌46'27	0.60963 AU
minimum elong	1852 Sep 04 16:48	11°♍49'02	3°42'09	inferior conj	1853 Aug 18 03:20	25°♌02'27	-4°28'13
morning rise	1852 Sep 11 09:01	6°♍51'40		minimum elong	1853 Aug 18 08:05	24°♌52'15	4°27'22
direct	1852 Sep 13 20:10	6°♍23'31		morning rise	1853 Aug 25 11:49	20°♌13'01	
asc. node	1852 Sep 16 22:49	7°♍09'26		direct	1853 Aug 27 21:54	19°♌49'38	
morning max el	1852 Sep 20 12:33	9°♍49'39	17°51'41	asc. node	1853 Sep 03 19:54	23°♌08'13	
	1852 Oct 03 21:50	0°♌		morning max el	1853 Sep 04 02:03	23°♌22'54	18°01'59
morning set	1852 Oct 06 18:48	5°♌04'35			1853 Sep 09 08:38	0°♍	
				morning set	1853 Sep 19 22:14	18°♍24'18	
superior conj	1852 Oct 18 08:58	25°♌08'51	0°46'16		1853 Sep 26 05:25	0°♌	
minimum elong	1852 Oct 18 13:06	25°♌26'13	0°45'43				
	1852 Oct 21 06:58	0°♌		superior conj	1853 Sep 29 22:52	6°♌40'52	1°17'16
max. Earth dist.	1852 Oct 25 02:22	6°♌12'44	1.43604 AU	minimum elong	1853 Sep 30 03:15	7°♌00'15	1°16'47
desc. node	1852 Oct 25 08:21	6°♌36'50		max. Earth dist.	1853 Oct 07 13:19	19°♌44'05	1.41963 AU
evening rise	1852 Nov 02 13:52	19°♌36'20		desc. node	1853 Oct 12 05:22	27°♌22'53	
	1852 Nov 09 09:09	0°♌		evening rise	1853 Oct 13 08:33	29°♌11'48	
	1852 Dec 01 00:00	0°♌			1853 Oct 13 20:38	0°♌	
evening max el	1852 Dec 02 15:11	1°♌45'12	21°11'41		1853 Nov 03 00:14	0°♌	
retrograde	1852 Dec 11 06:15	6°♌52'30		evening max el	1853 Nov 15 09:10	15°♌17'00	22°28'00
asc. node	1852 Dec 13 22:06	6°♌13'06		retrograde	1853 Nov 25 01:56	21°♌02'51	
evening set	1852 Dec 15 08:37	5°♌17'50		evening set	1853 Nov 29 16:08	19°♌11'30	
	1852 Dec 20 01:05	30°♌♌		asc. node	1853 Nov 30 19:09	18°♌09'32	
inferior conj	1852 Dec 20 17:19	29°♌04'13	2°10'00	inferior conj	1853 Dec 05 00:38	12°♌51'07	1°24'36
minimum elong	1852 Dec 20 14:52	29°♌12'41	2°09'11	minimum elong	1853 Dec 04 22:50	12°♌57'23	1°23'54
min. Earth dist.	1852 Dec 21 01:40	28°♌35'25	0.67575 AU	min. Earth dist.	1853 Dec 04 21:53	13°♌00'40	0.67815 AU
morning rise	1852 Dec 25 20:54	22°♌51'13		morning rise	1853 Dec 10 05:22	6°♌40'26	
direct	1852 Dec 31 02:31	20°♌34'22		direct	1853 Dec 14 20:04	4°♌46'12	
morning max el	1853 Jan 10 16:00	26°♌52'00	23°36'09	morning max el	1853 Dec 24 03:33	10°♌15'16	22°08'43
	1853 Jan 13 13:51	0°♌		desc. node	1854 Jan 08 04:37	29°♌25'14	
desc. node	1853 Jan 21 07:36	9°♌41'34			1854 Jan 08 14:19	0°♌	
	1853 Feb 04 06:48	0°♌		morning set	1854 Jan 26 05:39	26°♌55'00	
morning set	1853 Feb 14 23:10	17°♌19'27			1854 Jan 28 03:10	0°♌	
max. Earth dist.	1853 Feb 18 22:40	24°♌11'50	1.38891 AU	max. Earth dist.	1854 Jan 31 19:59	6°♌08'02	1.41030 AU
	1853 Feb 22 04:43	0°♌					
superior conj	1853 Feb 26 09:53	7°♌46'07	-1°48'48	superior conj	1854 Feb 08 14:43	19°♌34'56	-2°02'24
minimum elong	1853 Feb 26 13:58	8°♌05'18	1°48'26	minimum elong	1854 Feb 08 16:55	19°♌44'39	2°02'20
evening rise	1853 Mar 07 14:36	25°♌28'01			1854 Feb 14 08:39	0°♌	
	1853 Mar 09 22:54	0°♌		evening rise	1854 Feb 18 23:24	8°♌34'32	
asc. node	1853 Mar 11 21:27	3°♌40'33		asc. node	1854 Feb 26 18:29	22°♌43'06	
evening max el	1853 Mar 23 22:48	21°♌49'31	18°44'33		1854 Mar 03 10:21	0°♌	
retrograde	1853 Apr 01 00:18	25°♌45'08		evening max el	1854 Mar 07 06:00	4°♌33'10	18°16'05
evening set	1853 Apr 03 06:52	25°♌27'35		retrograde	1854 Mar 14 07:46	8°♌05'02	
inferior conj	1853 Apr 11 02:03	21°♌05'58	2°11'14	evening set	1854 Mar 16 20:19	7°♌39'03	
minimum elong	1853 Apr 11 06:02	20°♌58'33	2°10'07	inferior conj	1854 Mar 23 21:33	2°♌56'29	3°09'54
min. Earth dist.	1853 Apr 14 09:46	18°♌39'06	0.57493 AU	minimum elong	1854 Mar 24 00:51	2°♌49'18	3°09'18
morning rise	1853 Apr 19 02:05	15°♌52'50			1854 Mar 27 07:35	30°♌♌	
desc. node	1853 Apr 19 06:48	15°♌47'38		min. Earth dist.	1854 Mar 27 07:23	0°♌00'25	0.59548 AU
direct	1853 Apr 24 15:36	14°♌36'43		morning rise	1854 Mar 31 03:01	27°♌17'33	
morning max el	1853 May 08 23:56	22°♌08'51	26°16'29	desc. node	1854 Apr 06 03:50	25°♌25'14	
	1853 May 15 21:59	0°♌		direct	1854 Apr 06 13:02	25°♌24'51	
	1853 Jun 03 02:02	0°♌			1854 Apr 17 06:48	0°♌	
morning set	1853 Jun 06 14:39	7°♌14'20		morning max el	1854 Apr 20 20:53	3°♌11'39	27°20'08
asc. node	1853 Jun 07 20:42	9°♌53'44			1854 May 10 10:08	0°♌	
				morning set	1854 May 21 23:15	21°♌58'42	
superior conj	1853 Jun 13 14:33	22°♌24'54	0°57'23	asc. node	1854 May 25 17:46	0°♌00'28	
minimum elong	1853 Jun 13 12:24	22°♌13'01	0°56'59		1854 May 25 17:41	0°♌	
max. Earth dist.	1853 Jun 14 01:22	23°♌24'18	1.32344 AU	max. Earth dist.	1854 May 28 13:47	6°♌12'07	1.32194 AU
	1853 Jun 17 01:49	0°♌					
evening rise	1853 Jun 20 13:39	7°♌26'22		superior conj	1854 May 29 02:18	7°♌20'54	0°34'50
	1853 Jul 02 10:56	0°♌		minimum elong	1854 May 29 00:49	7°♌12'45	0°34'31
				evening rise	1854 Jun 04 22:59	22°♌16'01	

	1854 Jun 08 17:07	0°☿			1855 May 17 02:52	0°♄	
	1854 Jun 27 00:14	0°♄		evening rise	1855 May 20 10:27	7°♄08'39	
desc. node	1854 Jul 03 03:07	6°♄49'02			1855 Jun 01 09:53	0°☿	
evening max el	1854 Jul 03 06:51	6°♄57'58	26°00'31	evening max el	1855 Jun 14 22:33	17°☿49'29	24°36'49
retrograde	1854 Jul 17 06:56	14°♄08'04		desc. node	1855 Jun 20 00:09	21°☿55'19	
evening set	1854 Jul 23 13:03	12°♄33'42		retrograde	1855 Jun 28 20:37	24°☿52'13	
min. Earth dist.	1854 Jul 27 19:22	9°♄56'33	0.58900 AU	evening set	1855 Jul 03 20:17	23°☿56'10	
inferior conj	1854 Jul 31 02:18	7°♄30'13	-4°54'39	min. Earth dist.	1855 Jul 09 09:39	21°☿04'17	0.56982 AU
minimum elong	1854 Jul 31 04:13	7°♄26'38	4°54'33	inferior conj	1855 Jul 12 05:25	19°☿15'01	-4°50'07
morning rise	1854 Aug 07 21:35	3°♄03'39		minimum elong	1855 Jul 12 02:15	19°☿20'09	4°49'52
direct	1854 Aug 10 09:17	2°♄42'59		morning rise	1855 Jul 20 10:57	15°☿09'49	
morning max el	1854 Aug 18 09:51	6°♄33'09	18°32'23	direct	1855 Jul 23 02:02	14°☿50'41	
asc. node	1854 Aug 21 16:57	10°♄16'13		morning max el	1855 Aug 01 08:53	19°☿10'05	19°23'58
	1854 Sep 02 08:53	0°♄		asc. node	1855 Aug 08 13:59	28°☿17'44	
morning set	1854 Sep 03 14:05	2°♄20'31			1855 Aug 09 15:28	0°♄	
				morning set	1855 Aug 18 14:28	16°♄41'37	
superior conj	1854 Sep 12 11:21	19°♄20'16	1°36'16		1855 Aug 25 06:06	0°♄	
minimum elong	1854 Sep 12 14:12	19°♄33'31	1°36'03				
	1854 Sep 18 08:14	0°♄		superior conj	1855 Aug 26 16:39	2°♄49'52	1°44'51
max. Earth dist.	1854 Sep 19 19:35	2°♄35'05	1.39994 AU	minimum elong	1855 Aug 26 17:34	2°♄54'22	1°44'50
evening rise	1854 Sep 24 01:09	9°♄48'42		max. Earth dist.	1855 Sep 01 23:21	14°♄45'31	1.37945 AU
desc. node	1854 Sep 29 02:24	18°♄04'30		evening rise	1855 Sep 05 17:41	21°♄32'19	
	1854 Oct 06 19:38	0°♄			1855 Sep 10 16:00	0°♄	
evening max el	1854 Oct 28 23:12	28°♄52'04	23°47'54	desc. node	1855 Sep 15 23:27	8°♄36'47	
	1854 Oct 30 03:18	0°♄			1855 Sep 30 18:09	0°♄	
retrograde	1854 Nov 08 18:28	5°♄13'55		evening max el	1855 Oct 11 11:12	12°♄30'06	25°04'59
evening set	1854 Nov 13 22:05	3°♄05'19		retrograde	1855 Oct 23 06:55	19°♄21'06	
	1854 Nov 16 19:54	30°♄		evening set	1855 Oct 29 00:47	16°♄56'22	
asc. node	1854 Nov 17 16:11	28°♄55'09		min. Earth dist.	1855 Nov 02 12:53	11°♄52'47	0.67285 AU
inferior conj	1854 Nov 19 07:47	26°♄41'50	0°33'53	inferior conj	1855 Nov 03 12:57	10°♄33'57	-0°20'54
minimum elong	1854 Nov 19 06:59	26°♄44'34	0°33'32	minimum elong	1855 Nov 03 13:29	10°♄32'13	0°20'41
min. Earth dist.	1854 Nov 18 18:23	27°♄27'23	0.67719 AU	asc. node	1855 Nov 04 13:11	9°♄15'18	
morning rise	1854 Nov 24 15:51	20°♄35'42		morning rise	1855 Nov 09 02:22	4°♄34'39	
direct	1854 Nov 28 16:35	19°♄04'04		direct	1855 Nov 12 14:45	3°♄23'19	
morning max el	1854 Dec 06 21:37	23°♄49'06	20°48'49	morning max el	1855 Nov 19 23:34	7°♄34'02	19°41'23
	1854 Dec 12 05:49	0°♄		greatest brilliancy	1855 Dec 03 06:55	25°♄14'36	-0.7m
desc. node	1854 Dec 26 01:38	19°♄32'06			1855 Dec 06 10:50	0°♄	
	1855 Jan 01 23:23	0°♄		desc. node	1855 Dec 12 22:41	9°♄55'38	
morning set	1855 Jan 05 10:01	5°♄19'46		morning set	1855 Dec 15 06:35	13°♄31'13	
max. Earth dist.	1855 Jan 14 00:48	19°♄01'27	1.42922 AU		1855 Dec 25 19:55	0°♄	
				max. Earth dist.	1855 Dec 27 12:42	2°♄41'29	1.44314 AU
superior conj	1855 Jan 20 20:05	0°♄16'32	-2°03'17				
minimum elong	1855 Jan 20 17:50	0°♄07'04	2°03'13	superior conj	1855 Dec 31 23:01	9°♄46'30	-1°46'39
	1855 Jan 20 16:09	0°♄		minimum elong	1855 Dec 31 15:32	9°♄16'26	1°46'06
evening rise	1855 Feb 01 17:18	20°♄56'42			1856 Jan 13 05:15	0°♄	
	1855 Feb 06 20:00	0°♄		evening rise	1856 Jan 14 16:00	2°♄26'40	
asc. node	1855 Feb 13 15:30	11°♄13'13		asc. node	1856 Jan 31 12:31	29°♄01'13	
evening max el	1855 Feb 18 17:21	17°♄37'38	18°07'21		1856 Feb 01 08:55	0°♄	
retrograde	1855 Feb 25 06:58	21°♄01'30		evening max el	1856 Feb 02 05:53	0°♄55'32	18°17'42
evening set	1855 Feb 28 00:43	20°♄25'44		retrograde	1856 Feb 08 17:11	4°♄24'42	
inferior conj	1855 Mar 06 11:42	15°♄22'17	3°38'20	evening set	1856 Feb 11 16:00	3°♄38'14	
minimum elong	1855 Mar 06 13:04	15°♄18'52	3°38'14		1856 Feb 16 02:13	30°♄	
min. Earth dist.	1855 Mar 09 12:29	12°♄21'47	0.61678 AU	inferior conj	1856 Feb 17 16:28	28°♄15'25	3°43'34
morning rise	1855 Mar 12 23:56	9°♄26'45		minimum elong	1856 Feb 17 15:57	28°♄16'51	3°43'32
direct	1855 Mar 19 20:52	7°♄01'34		min. Earth dist.	1856 Feb 20 03:00	25°♄32'04	0.63628 AU
desc. node	1855 Mar 24 00:51	7°♄49'54		morning rise	1856 Feb 23 15:06	22°♄10'26	
morning max el	1855 Apr 03 00:16	14°♄56'01	27°48'28	direct	1856 Mar 01 13:19	19°♄24'28	
	1855 Apr 15 05:49	0°♄		desc. node	1856 Mar 09 21:52	22°♄38'09	
	1855 May 02 21:57	0°♄		morning max el	1856 Mar 15 08:16	27°♄19'29	27°39'33
morning set	1855 May 06 03:22	6°♄27'10			1856 Mar 17 21:11	0°♄	
max. Earth dist.	1855 May 12 00:10	18°♄50'39	1.32431 AU		1856 Apr 07 21:47	0°♄	
asc. node	1855 May 12 14:48	20°♄10'03		morning set	1856 Apr 19 00:40	20°♄32'05	
					1856 Apr 23 15:46	0°♄	
superior conj	1855 May 13 12:39	22°♄09'05	0°09'37	max. Earth dist.	1856 Apr 24 04:22	1°♄06'09	1.33077 AU
minimum elong	1855 May 13 12:12	22°♄06'39	0°09'32				
behind sun begin	1855 May 13 08:05	21°♄44'11		superior conj	1856 Apr 26 19:52	6°♄43'43	-0°17'28
behind sun end	1855 May 13 16:20	22°♄29'08		minimum elong	1856 Apr 26 20:44	6°♄48'20	0°17'16

asc. node	1856 Apr 28 11:50	10°♄18'36		minimum elong	1857 Apr 11 00:09	21°♄09'31	0°44'55
evening rise	1856 May 03 22:10	21°♄57'54		asc. node	1857 Apr 15 08:52	0°♄21'16	
	1856 May 07 19:51	0°♄			1857 Apr 15 04:50	0°♄	
evening max el	1856 May 26 12:27	28°♄19'26	23°01'19	evening rise	1857 Apr 18 08:16	6°♄36'45	
	1856 May 28 08:46	0°♄			1857 May 01 01:30	0°♄	
desc. node	1856 Jun 05 21:08	4°♄39'08		evening max el	1857 May 08 08:10	8°♄59'07	21°28'52
retrograde	1856 Jun 08 22:06	5°♄00'14		retrograde	1857 May 20 12:56	14°♄57'09	
evening set	1856 Jun 12 09:48	4°♄33'32		evening set	1857 May 22 22:29	14°♄44'05	
min. Earth dist.	1856 Jun 19 21:36	1°♄12'51	0.55552 AU	desc. node	1857 May 23 18:08	14°♄33'53	
inferior conj	1856 Jun 21 13:06	0°♄15'31	-4°01'16	inferior conj	1857 Jun 01 08:16	10°♄43'43	-2°26'14
minimum elong	1856 Jun 21 05:38	0°♄26'24	3°59'35	minimum elong	1857 Jun 01 01:42	10°♄52'55	2°24'03
	1856 Jun 21 23:48	30°♄		min. Earth dist.	1857 Jun 01 09:44	10°♄41'39	0.54922 AU
morning rise	1856 Jun 30 03:58	26°♄22'38		morning rise	1857 Jun 10 05:33	6°♄46'29	
direct	1856 Jul 02 23:49	26°♄03'41		direct	1857 Jun 13 10:35	6°♄24'01	
	1856 Jul 12 14:44	0°♄		morning max el	1857 Jun 25 21:50	12°♄17'59	22°07'26
morning max el	1856 Jul 13 20:58	1°♄06'03	20°36'35		1857 Jul 08 22:47	0°♄	
asc. node	1856 Jul 25 11:02	17°♄00'36		asc. node	1857 Jul 12 08:07	6°♄14'31	
	1856 Aug 01 04:55	0°♄		morning set	1857 Jul 17 06:25	16°♄10'21	
morning set	1856 Aug 01 20:37	1°♄20'13			1857 Jul 23 19:10	0°♄	
superior conj	1856 Aug 09 09:57	16°♄55'41	1°44'56	superior conj	1857 Jul 24 11:36	1°♄26'43	1°38'09
minimum elong	1856 Aug 09 09:15	16°♄52'04	1°44'55	minimum elong	1857 Jul 24 09:48	1°♄17'12	1°38'01
max. Earth dist.	1856 Aug 14 06:11	26°♄35'20	1.36066 AU	max. Earth dist.	1857 Jul 27 21:28	8°♄32'20	1.34516 AU
	1856 Aug 16 00:40	0°♄		evening rise	1857 Aug 01 12:27	17°♄45'58	
evening rise	1856 Aug 18 07:00	4°♄15'27			1857 Aug 08 02:51	0°♄	
desc. node	1856 Sep 01 20:28	28°♄54'25		desc. node	1857 Aug 19 17:28	18°♄50'50	
	1856 Sep 02 13:37	0°♄			1857 Aug 27 19:55	0°♄	
evening max el	1856 Sep 22 23:05	26°♄09'09	26°11'53	evening max el	1857 Sep 05 11:26	9°♄42'47	27°00'51
	1856 Sep 27 10:43	0°♄		retrograde	1857 Sep 18 16:53	17°♄00'03	
retrograde	1856 Oct 05 14:39	3°♄18'40		evening set	1857 Sep 25 12:40	14°♄16'32	
evening set	1856 Oct 11 22:23	0°♄41'22		min. Earth dist.	1857 Sep 29 10:31	10°♄25'10	0.65385 AU
	1856 Oct 12 16:58	30°♄		inferior conj	1857 Oct 01 09:55	8°♄09'38	-2°16'42
min. Earth dist.	1856 Oct 16 03:02	26°♄13'36	0.66508 AU	minimum elong	1857 Oct 01 13:33	7°♄59'13	2°15'18
inferior conj	1856 Oct 17 14:21	24°♄24'25	-1°18'21	morning rise	1857 Oct 07 15:11	2°♄32'25	
minimum elong	1856 Oct 17 16:25	24°♄18'02	1°17'30	asc. node	1857 Oct 08 07:17	2°♄14'45	
asc. node	1856 Oct 21 10:13	20°♄06'59		direct	1857 Oct 10 09:35	1°♄50'47	
morning rise	1856 Oct 23 10:53	18°♄34'39		morning max el	1857 Oct 16 22:24	5°♄22'52	18°13'03
direct	1856 Oct 26 13:05	17°♄40'05			1857 Nov 02 14:54	0°♄	
morning max el	1856 Nov 02 08:31	21°♄26'51	18°49'01	morning set	1857 Nov 04 14:14	3°♄14'10	
	1856 Nov 09 03:43	0°♄		desc. node	1857 Nov 15 16:46	21°♄13'22	
morning set	1856 Nov 23 19:59	22°♄39'01		superior conj	1857 Nov 19 07:41	26°♄58'36	-0°24'06
	1856 Nov 28 11:56	0°♄		minimum elong	1857 Nov 19 04:35	26°♄46'19	0°23'40
desc. node	1856 Nov 28 19:43	0°♄30'39			1857 Nov 21 05:38	0°♄	
max. Earth dist.	1856 Dec 09 05:29	16°♄51'21	1.45049 AU	max. Earth dist.	1857 Nov 22 00:36	1°♄14'38	1.45050 AU
superior conj	1856 Dec 10 04:57	18°♄23'36	-1°11'21	evening rise	1857 Dec 05 17:04	22°♄37'39	
minimum elong	1856 Dec 09 20:39	17°♄50'56	1°10'25		1857 Dec 10 10:51	0°♄	
	1856 Dec 17 13:17	0°♄		greatest brilliancy	1857 Dec 17 19:25	11°♄19'27	-0.7m
evening rise	1856 Dec 25 15:53	12°♄58'48		evening max el	1857 Dec 30 00:49	27°♄50'12	19°31'34
	1857 Jan 05 06:17	0°♄			1858 Jan 01 09:55	0°♄	
evening max el	1857 Jan 15 17:04	14°♄20'51	18°46'13	asc. node	1858 Jan 04 06:34	1°♄39'20	
asc. node	1857 Jan 17 09:32	15°♄54'33		retrograde	1858 Jan 06 06:58	2°♄01'40	
retrograde	1857 Jan 22 10:14	18°♄06'24		evening set	1858 Jan 09 18:45	0°♄50'21	
evening set	1857 Jan 25 14:51	17°♄08'11			1858 Jan 10 20:40	30°♄	
inferior conj	1857 Jan 31 07:58	11°♄27'53	3°31'43	inferior conj	1858 Jan 15 07:01	24°♄54'48	3°07'15
minimum elong	1857 Jan 31 06:07	11°♄33'31	3°31'28	minimum elong	1858 Jan 15 04:30	25°♄03'01	3°06'41
min. Earth dist.	1857 Feb 02 03:01	9°♄16'15	0.65249 AU	min. Earth dist.	1858 Jan 16 11:21	23°♄22'18	0.66472 AU
morning rise	1857 Feb 05 20:58	5°♄17'52		morning rise	1858 Jan 20 14:01	18°♄42'19	
direct	1857 Feb 12 12:57	2°♄25'48		direct	1858 Jan 26 18:33	15°♄57'23	
desc. node	1857 Feb 24 18:54	9°♄13'51		morning max el	1858 Feb 08 03:10	23°♄17'50	25°49'52
morning max el	1857 Feb 25 17:56	10°♄10'30	26°57'22	desc. node	1858 Feb 11 15:58	27°♄07'02	
	1857 Mar 13 09:43	0°♄			1858 Feb 14 02:17	0°♄	
	1857 Mar 31 08:46	0°♄			1858 Mar 06 18:00	0°♄	
morning set	1857 Apr 02 11:57	4°♄02'41		morning set	1858 Mar 16 09:04	16°♄46'57	
max. Earth dist.	1857 Apr 06 22:33	12°♄47'49	1.34171 AU	max. Earth dist.	1858 Mar 20 05:04	23°♄58'54	1.35730 AU
					1858 Mar 23 07:15	0°♄	
superior conj	1857 Apr 10 21:52	20°♄57'35	-0°45'22				

superior conj	1858 Mar 25 16:07	4° Υ 43'48	-1°12'36	superior conj	1859 Mar 08 23:22	17° Υ 53'35	-1°37'05
minimum elong	1858 Mar 25 19:42	5° Υ 01'49	1°12'01	minimum elong	1859 Mar 09 03:38	18° Υ 14'08	1°36'35
asc. node	1858 Apr 02 05:54	20° Υ 14'02			1859 Mar 15 03:08	0° Υ	
evening rise	1858 Apr 02 14:48	20° Υ 59'28		evening rise	1859 Mar 17 15:22	4° Υ 59'26	
	1858 Apr 07 03:25	0° Υ		asc. node	1859 Mar 20 02:58	9° Υ 52'25	
evening max el	1858 Apr 20 14:46	20° Υ 11'36	20°10'01		1859 Apr 01 10:21	0° Υ	
retrograde	1858 May 01 02:54	25° Υ 16'24		evening max el	1859 Apr 03 08:51	2° Υ 04'02	19°09'56
evening set	1858 May 03 03:45	25° Υ 05'47		retrograde	1859 Apr 12 05:20	6° Υ 21'18	
desc. node	1858 May 10 15:10	22° Υ 01'39		evening set	1859 Apr 14 08:35	6° Υ 07'23	
inferior conj	1858 May 12 04:22	21° Υ 07'03	-0°27'05	inferior conj	1859 Apr 22 14:59	1° Υ 55'57	1°21'58
minimum elong	1858 May 12 03:07	21° Υ 08'55	0°26'38	minimum elong	1859 Apr 22 18:04	1° Υ 50'42	1°20'57
min. Earth dist.	1858 May 13 22:51	20° Υ 04'03	0.55256 AU		1859 Apr 25 11:35	30° Υ	
morning rise	1858 May 21 00:48	16° Υ 46'59		min. Earth dist.	1859 Apr 25 13:57	29° Υ 56'09	0.56478 AU
direct	1858 May 24 23:15	16° Υ 13'16		desc. node	1859 Apr 27 12:12	28° Υ 44'20	
morning max el	1858 Jun 07 14:28	22° Υ 55'12	23°48'49	morning rise	1859 May 01 00:35	27° Υ 01'48	
	1858 Jun 13 21:30	0° Υ		direct	1859 May 05 23:19	26° Υ 04'57	
asc. node	1858 Jun 29 05:10	25° Υ 51'05			1859 May 16 05:28	0° Υ	
	1858 Jul 01 05:25	0° Υ		morning max el	1859 May 20 04:59	3° Υ 22'39	25°27'26
morning set	1858 Jul 01 18:01	1° Υ 06'10			1859 Jun 08 02:54	0° Υ	
				morning set	1859 Jun 16 05:47	16° Υ 02'38	
superior conj	1858 Jul 08 18:44	16° Υ 13'39	1°25'48	asc. node	1859 Jun 16 02:14	15° Υ 43'53	
minimum elong	1858 Jul 08 16:23	16° Υ 01'00	1°25'31		1859 Jun 22 16:25	0° Υ	
max. Earth dist.	1858 Jul 10 22:10	20° Υ 49'30	1.33357 AU				
	1858 Jul 15 07:45	0° Υ		superior conj	1859 Jun 23 05:08	1° Υ 09'39	1°08'54
evening rise	1858 Jul 16 05:43	1° Υ 51'03		minimum elong	1859 Jun 23 02:47	0° Υ 56'43	1°08'30
	1858 Aug 01 00:12	0° Υ		max. Earth dist.	1859 Jun 24 06:08	3° Υ 26'16	1.32598 AU
desc. node	1858 Aug 06 14:30	8° Υ 16'28		evening rise	1859 Jun 30 07:21	16° Υ 20'33	
evening max el	1858 Aug 18 22:54	22° Υ 58'38	27°24'40		1859 Jul 07 06:31	0° Υ	
	1858 Aug 30 03:38	0° Υ		desc. node	1859 Jul 24 11:32	26° Υ 58'30	
retrograde	1858 Sep 01 13:03	0° Υ 16'24			1859 Jul 26 22:38	0° Υ	
	1858 Sep 03 20:41	30° Υ		evening max el	1859 Aug 01 07:04	5° Υ 43'13	27°17'43
evening set	1858 Sep 08 16:44	27° Υ 36'03		retrograde	1859 Aug 15 02:36	12° Υ 58'52	
min. Earth dist.	1858 Sep 12 09:00	24° Υ 19'06	0.63912 AU	evening set	1859 Aug 22 06:54	10° Υ 33'54	
inferior conj	1858 Sep 14 21:08	21° Υ 43'21	-3°13'19	min. Earth dist.	1859 Aug 25 21:03	7° Υ 44'11	0.62113 AU
minimum elong	1858 Sep 15 02:02	21° Υ 30'37	3°11'43	inferior conj	1859 Aug 28 20:59	4° Υ 58'35	-4°04'04
morning rise	1858 Sep 21 12:26	16° Υ 22'13		minimum elong	1859 Aug 29 02:16	4° Υ 46'23	4°02'49
direct	1858 Sep 24 01:35	15° Υ 49'55		morning rise	1859 Sep 04 23:09	29° Υ 57'00	
asc. node	1858 Sep 25 04:22	15° Υ 56'13			1859 Sep 04 19:48	30° Υ	
morning max el	1858 Sep 30 14:29	19° Υ 15'37	17°54'18	direct	1859 Sep 07 09:38	29° Υ 31'05	
	1858 Oct 08 12:34	0° Υ			1859 Sep 09 22:20	0° Υ	
morning set	1858 Oct 17 11:27	15° Υ 07'33		asc. node	1859 Sep 12 01:26	1° Υ 08'44	
	1858 Oct 26 05:49	0° Υ		morning max el	1859 Sep 14 05:51	2° Υ 58'45	17°53'44
				morning set	1859 Sep 30 05:34	28° Υ 00'47	
superior conj	1858 Oct 30 03:37	6° Υ 26'50	0°23'02		1859 Oct 01 08:00	0° Υ	
minimum elong	1858 Oct 30 06:06	6° Υ 37'00	0°22'41				
desc. node	1858 Nov 02 13:47	11° Υ 59'52		superior conj	1859 Oct 11 02:27	17° Υ 15'01	1°00'55
max. Earth dist.	1858 Nov 04 18:48	15° Υ 32'03	1.44325 AU	minimum elong	1859 Oct 11 07:02	17° Υ 34'38	1°00'21
	1858 Nov 14 00:20	0° Υ		max. Earth dist.	1859 Oct 18 09:02	29° Υ 25'14	1.42966 AU
evening rise	1858 Nov 15 03:11	1° Υ 43'29			1859 Oct 18 17:33	0° Υ	
	1858 Dec 04 02:37	0° Υ		desc. node	1859 Oct 20 10:50	2° Υ 47'13	
evening max el	1858 Dec 13 03:26	11° Υ 20'17	20°31'38	evening rise	1859 Oct 25 13:56	10° Υ 55'56	
retrograde	1858 Dec 21 04:53	16° Υ 05'31			1859 Nov 07 03:53	0° Υ	
asc. node	1858 Dec 22 03:38	16° Υ 00'29		evening max el	1859 Nov 26 00:19	24° Υ 50'49	21°43'13
evening set	1858 Dec 25 01:29	14° Υ 39'36			1859 Dec 03 08:34	0° Υ	
inferior conj	1858 Dec 30 10:58	8° Υ 31'34	2°33'09	retrograde	1859 Dec 05 01:57	0° Υ 14'38	
minimum elong	1858 Dec 30 08:21	8° Υ 40'29	2°32'22		1859 Dec 06 17:44	30° Υ	
min. Earth dist.	1858 Dec 31 02:07	7° Υ 40'02	0.67287 AU	evening set	1859 Dec 09 09:12	28° Υ 32'47	
morning rise	1859 Jan 04 15:02	2° Υ 18'25		asc. node	1859 Dec 09 00:41	28° Υ 49'07	
	1859 Jan 08 17:14	30° Υ		inferior conj	1859 Dec 14 17:37	22° Υ 15'35	1°51'28
direct	1859 Jan 10 05:17	29° Υ 49'54		minimum elong	1859 Dec 14 15:23	22° Υ 23'19	1°50'39
	1859 Jan 11 18:41	0° Υ		min. Earth dist.	1859 Dec 14 21:02	22° Υ 03'44	0.67723 AU
morning max el	1859 Jan 21 11:36	6° Υ 32'55	24°26'54	morning rise	1859 Dec 19 21:25	16° Υ 03'25	
desc. node	1859 Jan 29 13:00	15° Υ 54'47		direct	1859 Dec 24 20:31	13° Υ 56'19	
	1859 Feb 08 17:06	0° Υ		morning max el	1860 Jan 03 21:13	19° Υ 53'18	22°58'25
morning set	1859 Feb 26 10:30	28° Υ 29'50			1860 Jan 12 10:42	0° Υ	
	1859 Feb 27 07:02	0° Υ		desc. node	1860 Jan 16 10:02	5° Υ 21'24	
max. Earth dist.	1859 Mar 02 02:43	5° Υ 02'40	1.37672 AU		1860 Feb 01 22:18	0° Υ	

morning set	1860 Feb 07 09:57	8° \approx 54'47		max. Earth dist.	1861 Jan 23 21:48	28° \approx 50'35	1.41877 AU
max. Earth dist.	1860 Feb 11 22:03	16° \approx 31'40	1.39811 AU		1861 Jan 24 14:34	0° \approx	
	1860 Feb 19 11:57	0° \approx					
superior conj	1860 Feb 19 15:17	0° \approx 15'16	-1°55'49	superior conj	1861 Jan 31 10:45	11° \approx 37'02	-2°04'39
minimum elong	1860 Feb 19 18:51	0° \approx 31'39	1°55'35	minimum elong	1861 Jan 31 11:21	11° \approx 39'39	2°04'38
evening rise	1860 Feb 29 06:57	18° \approx 28'02		evening rise	1861 Feb 10 17:08	0° \approx	
asc. node	1860 Mar 06 00:00	29° \approx 10'06		asc. node	1861 Feb 11 09:58	1° \approx 17'01	
	1860 Mar 06 11:07	0° \approx		evening max el	1861 Feb 20 21:02	18° \approx 00'15	
evening max el	1860 Mar 16 12:08	14° \approx 31'17	18°29'58		1861 Feb 27 21:31	27° \approx 25'13	18°10'01
retrograde	1860 Mar 24 02:18	18° \approx 15'12		retrograde	1861 Mar 03 07:46	0° \approx	
evening set	1860 Mar 26 11:18	17° \approx 54'26		evening set	1861 Mar 06 16:55	0° \approx 51'54	
inferior conj	1860 Apr 02 22:27	13° \approx 24'01	2°40'15		1861 Mar 09 07:38	0° \approx 22'00	
minimum elong	1860 Apr 03 02:25	13° \approx 16'06	2°39'17	inferior conj	1861 Mar 10 04:08	30° \approx 30'35	
min. Earth dist.	1860 Apr 06 08:45	10° \approx 41'39	0.58329 AU	minimum elong	1861 Mar 16 02:22	25° \approx 30'46	3°25'14
morning rise	1860 Apr 10 14:36	7° \approx 58'18		min. Earth dist.	1861 Mar 16 04:55	25° \approx 24'54	3°24'53
desc. node	1860 Apr 13 09:14	6° \approx 53'11		morning rise	1861 Mar 19 09:31	22° \approx 29'29	0.60462 AU
direct	1860 Apr 16 13:35	6° \approx 26'57		morning rise	1861 Mar 23 00:08	19° \approx 43'35	
morning max el	1860 Apr 30 22:49	14° \approx 07'05	26°47'35	direct	1861 Mar 29 16:06	17° \approx 35'37	
	1860 May 13 14:55	0° \approx		desc. node	1861 Mar 31 06:15	17° \approx 42'35	
	1860 May 30 05:53	0° \approx		morning max el	1861 Apr 12 22:35	25° \approx 27'17	27°36'40
morning set	1860 May 30 16:00	0° \approx 52'55			1861 Apr 17 03:30	0° \approx	
asc. node	1860 Jun 01 23:16	5° \approx 46'42		morning set	1861 May 07 00:04	0° \approx	
				asc. node	1861 May 14 22:55	15° \approx 31'12	
superior conj	1860 Jun 06 16:52	16° \approx 07'11	0°48'12	max. Earth dist.	1861 May 19 20:19	25° \approx 55'08	
minimum elong	1860 Jun 06 14:57	15° \approx 56'36	0°47'49		1861 May 21 05:37	28° \approx 56'45	1.32244 AU
max. Earth dist.	1860 Jun 06 17:50	16° \approx 12'31	1.32228 AU		1861 May 21 17:10	0° \approx	
	1860 Jun 13 02:15	0° \approx		superior conj	1861 May 22 04:13	1° \approx 00'33	0°24'25
evening rise	1860 Jun 13 14:30	1° \approx 04'33		minimum elong	1861 May 22 03:08	0° \approx 54'36	0°24'11
	1860 Jun 29 08:28	0° \approx		evening rise	1861 May 29 00:56	15° \approx 55'58	
desc. node	1860 Jul 10 08:34	14° \approx 37'56			1861 Jun 05 01:03	0° \approx	
evening max el	1860 Jul 13 09:19	17° \approx 44'21	26°37'38	evening max el	1861 Jun 25 04:36	28° \approx 59'23	25°27'20
retrograde	1860 Jul 27 08:38	24° \approx 57'34			1861 Jun 26 06:48	0° \approx	
evening set	1860 Aug 03 02:32	23° \approx 01'36		desc. node	1861 Jun 27 05:34	0° \approx 49'24	
min. Earth dist.	1860 Aug 06 22:53	20° \approx 24'58	0.60084 AU	retrograde	1861 Jul 09 05:05	6° \approx 07'45	
inferior conj	1860 Aug 10 05:58	17° \approx 45'42	-4°42'19	evening set	1861 Jul 14 23:20	4° \approx 50'11	
minimum elong	1860 Aug 10 09:50	17° \approx 37'51	4°41'50	min. Earth dist.	1861 Jul 19 16:41	2° \approx 08'28	0.58042 AU
morning rise	1860 Aug 17 19:09	13° \approx 06'17		inferior conj	1861 Jul 22 20:41	29° \approx 55'40	-4°57'26
direct	1860 Aug 20 05:34	12° \approx 44'21		minimum elong	1861 Jul 22 20:38	29° \approx 55'46	4°57'26
morning max el	1860 Aug 27 17:21	16° \approx 23'23	18°12'28		1861 Jul 22 18:13	30° \approx 30'35	
asc. node	1860 Aug 28 22:28	17° \approx 38'34		morning rise	1861 Jul 30 20:23	25° \approx 38'35	
	1860 Sep 06 07:21	0° \approx		direct	1861 Aug 02 09:09	25° \approx 18'50	
morning set	1860 Sep 12 14:46	11° \approx 37'03		morning max el	1861 Aug 10 21:44	29° \approx 20'18	18°51'43
					1861 Aug 11 13:58	0° \approx	
superior conj	1860 Sep 22 02:40	29° \approx 17'50	1°26'42	asc. node	1861 Aug 15 19:30	5° \approx 10'41	
minimum elong	1860 Sep 22 06:31	29° \approx 35'15	1°26'20	morning set	1861 Aug 27 10:35	25° \approx 44'18	
	1860 Sep 22 12:00	0° \approx			1861 Aug 29 14:37	0° \approx	
max. Earth dist.	1860 Sep 29 17:25	12° \approx 38'26	1.41146 AU	superior conj	1861 Sep 04 22:52	12° \approx 19'47	1°41'04
evening rise	1860 Oct 04 17:03	20° \approx 55'04		minimum elong	1861 Sep 05 00:53	12° \approx 29'24	1°40'57
desc. node	1860 Oct 06 07:52	23° \approx 31'58		max. Earth dist.	1861 Sep 11 21:34	25° \approx 08'28	1.39111 AU
	1860 Oct 10 10:02	0° \approx			1861 Sep 14 15:57	0° \approx	
evening max el	1860 Nov 07 16:13	8° \approx 23'32	23°01'52	evening rise	1861 Sep 15 19:57	2° \approx 00'28	
retrograde	1860 Nov 17 20:35	14° \approx 26'03		desc. node	1861 Sep 23 04:53	14° \approx 10'00	
evening set	1860 Nov 22 16:15	12° \approx 27'22			1861 Oct 03 16:19	0° \approx	
asc. node	1860 Nov 24 21:42	10° \approx 12'00		evening max el	1861 Oct 21 05:10	22° \approx 00'07	24°21'36
min. Earth dist.	1860 Nov 27 17:45	6° \approx 30'10	0.67811 AU	retrograde	1861 Nov 01 11:31	28° \approx 35'42	
inferior conj	1860 Nov 28 01:05	6° \approx 04'54	1°03'41	evening set	1861 Nov 06 21:00	26° \approx 20'18	
minimum elong	1860 Nov 27 23:39	6° \approx 09'49	1°03'06	min. Earth dist.	1861 Nov 11 13:47	20° \approx 56'32	0.67569 AU
morning rise	1860 Dec 03 06:58	29° \approx 55'42		asc. node	1861 Nov 11 18:43	20° \approx 40'01	
	1860 Dec 03 04:52	30° \approx 30'35		inferior conj	1861 Nov 12 07:36	19° \approx 56'43	0°11'05
direct	1860 Dec 07 15:28	28° \approx 11'20		minimum elong	1861 Nov 12 07:19	19° \approx 57'38	0°10'58
	1860 Dec 12 13:24	0° \approx		transit middle	1861 Nov 12 07:19	19° \approx 57'38	0°10'58
morning max el	1860 Dec 16 11:18	3° \approx 21'20	21°33'24	transit begin	1861 Nov 12 05:18	20° \approx 04'26	
desc. node	1861 Jan 02 07:04	25° \approx 16'08		transit end	1861 Nov 12 09:21	19° \approx 50'51	
	1861 Jan 05 12:05	0° \approx		morning rise	1861 Nov 17 17:40	13° \approx 52'55	
morning set	1861 Jan 17 04:16	17° \approx 56'59		direct	1861 Nov 21 12:57	12° \approx 30'09	

morning max el	1861 Nov 29 08:32	16° \mathbb{M} 59'30	20°18'23		1862 Oct 30 16:03	30° \mathbb{R} $\underline{\mathbf{a}}$	
	1861 Dec 09 15:47	0° \mathbb{X}		morning rise	1862 Nov 02 03:38	27° $\underline{\mathbf{a}}$ 53'08	
desc. node	1861 Dec 20 04:06	15° \mathbb{X} 30'49		direct	1862 Nov 05 11:32	26° $\underline{\mathbf{a}}$ 49'12	
morning set	1861 Dec 27 02:10	26° \mathbb{X} 06'33			1862 Nov 11 17:41	0° \mathbb{M}	
	1861 Dec 29 14:16	0° \mathbb{Z}		morning max el	1862 Nov 12 13:36	0° \mathbb{M} 48'09	19°17'12
max. Earth dist.	1862 Jan 06 05:30	12° \mathbb{Z} 04'36	1.43589 AU		1862 Dec 03 04:25	0° \mathbb{X}	
				morning set	1862 Dec 06 03:23	4° \mathbb{X} 35'22	
superior conj	1862 Jan 12 04:58	21° \mathbb{Z} 48'19	-1°58'35	desc. node	1862 Dec 07 01:09	5° \mathbb{X} 59'57	
minimum elong	1862 Jan 12 00:21	21° \mathbb{Z} 29'17	1°58'21	max. Earth dist.	1862 Dec 19 20:20	26° \mathbb{X} 01'29	1.44722 AU
	1862 Jan 17 02:40	0° \approx			1862 Dec 22 08:35	0° \mathbb{Z}	
evening rise	1862 Jan 24 20:11	13° \approx 17'34					
	1862 Feb 03 14:42	0° \mathbb{H}		superior conj	1862 Dec 22 21:36	0° \mathbb{Z} 51'43	-1°33'47
asc. node	1862 Feb 07 18:02	6° \mathbb{H} 13'52		minimum elong	1862 Dec 22 12:56	0° \mathbb{Z} 17'17	1°32'58
evening max el	1862 Feb 11 09:47	10° \mathbb{H} 36'37	18°09'29	evening rise	1863 Jan 06 09:29	24° \mathbb{Z} 23'20	
retrograde	1862 Feb 17 21:09	14° \mathbb{H} 00'49			1863 Jan 09 18:43	0° \approx	
evening set	1862 Feb 20 17:07	13° \mathbb{H} 20'31		asc. node	1863 Jan 25 15:03	23° \approx 40'18	
inferior conj	1862 Feb 26 23:13	8° \mathbb{H} 08'49	3°42'56	evening max el	1863 Jan 25 22:05	23° \approx 58'26	18°27'38
minimum elong	1862 Feb 26 23:45	8° \mathbb{H} 07'27	3°42'55	retrograde	1863 Feb 01 10:45	27° \approx 33'01	
min. Earth dist.	1862 Mar 01 18:24	5° \mathbb{H} 13'20	0.62550 AU	evening set	1863 Feb 04 12:01	26° \approx 41'30	
morning rise	1862 Mar 05 05:14	2° \mathbb{H} 08'51		inferior conj	1863 Feb 10 09:00	21° \approx 10'46	3°40'16
	1862 Mar 09 05:52	30° \mathbb{R} \approx		minimum elong	1863 Feb 10 07:50	21° \approx 14'08	3°40'11
direct	1862 Mar 12 04:00	29° \approx 32'55		min. Earth dist.	1863 Feb 12 12:50	18° \approx 39'57	0.64371 AU
	1862 Mar 15 04:58	0° \mathbb{H}		morning rise	1863 Feb 16 03:06	15° \approx 03'27	
desc. node	1862 Mar 18 03:16	1° \mathbb{H} 12'19		direct	1863 Feb 22 23:28	12° \approx 13'25	
morning max el	1862 Mar 26 03:59	7° \mathbb{H} 28'12	27°48'58	desc. node	1863 Mar 05 00:18	16° \approx 50'25	
	1862 Apr 12 09:38	0° \mathbb{Y}		morning max el	1863 Mar 08 12:59	20° \approx 04'33	27°25'15
morning set	1862 Apr 29 00:27	29° \mathbb{Y} 50'24			1863 Mar 17 01:33	0° \mathbb{H}	
	1862 Apr 29 02:21	0° \mathbb{B}			1863 Apr 05 10:20	0° \mathbb{Y}	
max. Earth dist.	1862 May 04 13:45	11° \mathbb{B} 26'23	1.32655 AU	morning set	1863 Apr 12 17:56	13° \mathbb{Y} 41'45	
				max. Earth dist.	1863 Apr 17 14:16	23° \mathbb{Y} 28'56	1.33492 AU
superior conj	1862 May 06 13:29	15° \mathbb{B} 43'50	-0°01'43				
minimum elong	1862 May 06 13:34	15° \mathbb{B} 44'14	0°01'41	superior conj	1863 Apr 20 18:46	0° \mathbb{B} 10'19	-0°29'17
behind sun begin	1862 May 06 08:24	15° \mathbb{B} 16'15		minimum elong	1863 Apr 20 20:14	0° \mathbb{B} 18'04	0°28'58
behind sun end	1862 May 06 18:44	16° \mathbb{B} 12'15			1863 Apr 20 16:49	0° \mathbb{B}	
asc. node	1862 May 06 17:22	16° \mathbb{B} 04'53		asc. node	1863 Apr 23 14:23	6° \mathbb{B} 11'13	
	1862 May 13 03:42	0° \mathbb{II}		evening rise	1863 Apr 28 00:03	15° \mathbb{B} 33'49	
evening rise	1862 May 13 12:44	0° \mathbb{II} 48'01			1863 May 05 06:24	0° \mathbb{II}	
	1862 May 29 17:10	0° \mathbb{B}		evening max el	1863 May 19 10:27	20° \mathbb{II} 09'16	22°20'48
evening max el	1862 Jun 06 18:59	9° \mathbb{B} 39'13	23°56'48	desc. node	1863 May 31 23:34	26° \mathbb{II} 33'36	
desc. node	1862 Jun 14 02:33	14° \mathbb{B} 59'50		retrograde	1863 Jun 01 09:25	26° \mathbb{II} 33'59	
retrograde	1862 Jun 20 13:25	16° \mathbb{B} 34'12		evening set	1863 Jun 04 08:19	26° \mathbb{II} 14'43	
evening set	1862 Jun 24 21:34	15° \mathbb{B} 52'38		min. Earth dist.	1863 Jun 12 17:09	22° \mathbb{II} 38'23	0.55173 AU
min. Earth dist.	1862 Jul 01 05:41	12° \mathbb{B} 50'01	0.56294 AU	inferior conj	1863 Jun 13 16:18	22° \mathbb{II} 05'42	-3°25'50
inferior conj	1862 Jul 03 15:16	11° \mathbb{B} 21'49	-4°35'26	minimum elong	1863 Jun 13 08:26	22° \mathbb{II} 16'49	3°23'40
minimum elong	1862 Jul 03 09:53	11° \mathbb{B} 30'07	4°34'39	morning rise	1863 Jun 22 10:31	18° \mathbb{II} 13'45	
morning rise	1862 Jul 12 00:51	7° \mathbb{B} 23'04		direct	1863 Jun 25 09:42	17° \mathbb{II} 53'51	
direct	1862 Jul 14 17:52	7° \mathbb{B} 04'06		morning max el	1863 Jul 06 23:20	23° \mathbb{II} 17'03	21°13'23
morning max el	1862 Jul 24 16:14	11° \mathbb{B} 40'30	19°52'20		1863 Jul 12 20:00	0° \mathbb{B}	
asc. node	1862 Aug 02 16:33	23° \mathbb{B} 31'29		asc. node	1863 Jul 20 13:37	12° \mathbb{B} 28'38	
	1862 Aug 06 08:19	0° \mathbb{Q}		morning set	1863 Jul 26 21:45	24° \mathbb{B} 58'38	
morning set	1862 Aug 11 13:46	10° \mathbb{Q} 14'10			1863 Jul 29 07:37	0° \mathbb{Q}	
superior conj	1862 Aug 19 09:48	26° \mathbb{Q} 06'24	1°45'50	superior conj	1863 Aug 03 07:05	10° \mathbb{Q} 24'09	1°42'50
minimum elong	1862 Aug 19 09:59	26° \mathbb{Q} 07'16	1°45'50	minimum elong	1863 Aug 03 05:50	10° \mathbb{Q} 17'44	1°42'45
	1862 Aug 21 09:05	0° \mathbb{P}		max. Earth dist.	1863 Aug 07 12:40	19° \mathbb{Q} 00'22	1.35360 AU
max. Earth dist.	1862 Aug 25 02:18	7° \mathbb{P} 08'48	1.37115 AU	evening rise	1863 Aug 11 18:41	27° \mathbb{Q} 15'52	
evening rise	1862 Aug 28 21:56	14° \mathbb{P} 11'18			1863 Aug 13 05:43	0° \mathbb{P}	
	1862 Sep 07 04:08	0° $\underline{\mathbf{a}}$		desc. node	1863 Aug 27 22:57	24° \mathbb{P} 46'36	
desc. node	1862 Sep 10 01:55	4° $\underline{\mathbf{a}}$ 37'04			1863 Aug 31 11:52	0° $\underline{\mathbf{a}}$	
	1862 Sep 28 11:06	0° \mathbb{M}		evening max el	1863 Sep 16 05:20	19° $\underline{\mathbf{a}}$ 17'41	26°35'17
evening max el	1862 Oct 03 17:14	5° \mathbb{M} 40'12	25°35'14	retrograde	1863 Sep 29 03:10	26° $\underline{\mathbf{a}}$ 31'11	
retrograde	1862 Oct 15 21:53	12° \mathbb{M} 39'39		evening set	1863 Oct 05 16:33	23° $\underline{\mathbf{a}}$ 50'07	
evening set	1862 Oct 21 21:46	10° \mathbb{M} 09'12		min. Earth dist.	1863 Oct 09 18:12	19° $\underline{\mathbf{a}}$ 38'08	0.66079 AU
min. Earth dist.	1862 Oct 26 06:45	5° \mathbb{M} 20'39	0.66999 AU	inferior conj	1863 Oct 11 10:36	17° $\underline{\mathbf{a}}$ 37'08	-1°43'07
inferior conj	1862 Oct 27 11:25	3° \mathbb{M} 48'49	-0°45'00	minimum elong	1863 Oct 11 13:20	17° $\underline{\mathbf{a}}$ 28'54	1°42'00
minimum elong	1862 Oct 27 12:35	3° \mathbb{M} 45'06	0°44'31	asc. node	1863 Oct 16 12:47	12° $\underline{\mathbf{a}}$ 26'46	
asc. node	1862 Oct 29 15:44	1° \mathbb{M} 07'06		morning rise	1863 Oct 17 10:41	11° $\underline{\mathbf{a}}$ 52'32	

direct	1863 Oct 20 09:20	11°♄03'54		minimum elong	1864 Sep 24 07:09	1°♄05'53	2°39'37
morning max el	1863 Oct 27 01:01	14°♄42'57	18°31'44		1864 Sep 25 07:30	30°♄	
	1863 Nov 07 04:49	0°♄		morning rise	1864 Sep 30 12:21	25°♄47'03	
morning set	1863 Nov 16 04:37	14°♄19'32		asc. node	1864 Oct 02 09:53	25°♄13'00	
desc. node	1863 Nov 23 22:14	26°♄38'41		direct	1864 Oct 03 04:08	25°♄09'56	
	1863 Nov 26 01:09	0°♄		morning max el	1864 Oct 09 16:14	28°♄38'21	18°02'56
					1864 Oct 10 22:42	0°♄	
superior conj	1863 Dec 01 23:24	9°♄19'49	-0°52'06	morning set	1864 Oct 27 10:52	25°♄29'06	
minimum elong	1863 Dec 01 16:49	8°♄53'55	0°51'15		1864 Oct 30 03:48	0°♄	
max. Earth dist.	1863 Dec 02 14:51	10°♄20'28	1.45140 AU	desc. node	1864 Nov 09 19:15	17°♄23'07	
	1863 Dec 15 02:43	0°♄					
evening rise	1863 Dec 17 23:26	4°♄31'53		superior conj	1864 Nov 10 07:23	18°♄11'38	-0°03'25
greatest brilliancy	1863 Dec 27 04:11	19°♄05'07	-0.8m	minimum elong	1864 Nov 10 06:58	18°♄09'58	0°03'22
	1864 Jan 03 09:40	0°♄		behind sun begin	1864 Nov 09 20:32	17°♄28'14	
evening max el	1864 Jan 09 08:00	7°♄25'45	19°03'30	behind sun end	1864 Nov 10 17:23	18°♄51'38	
asc. node	1864 Jan 12 12:04	10°♄06'33		max. Earth dist.	1864 Nov 14 09:35	24°♄41'45	1.44819 AU
retrograde	1864 Jan 16 05:53	11°♄21'31			1864 Nov 17 18:31	0°♄	
evening set	1864 Jan 19 13:22	10°♄17'50		evening rise	1864 Nov 26 16:38	13°♄52'01	
inferior conj	1864 Jan 25 04:06	4°♄30'26	3°22'41		1864 Dec 07 05:24	0°♄	
minimum elong	1864 Jan 25 01:54	4°♄37'23	3°22'19	greatest brilliancy	1864 Dec 10 12:21	4°♄55'51	-0.6m
min. Earth dist.	1864 Jan 26 16:39	2°♄35'07	0.65813 AU	evening max el	1864 Dec 22 13:36	20°♄54'50	19°55'30
	1864 Jan 28 21:21	30°♄		asc. node	1864 Dec 29 09:08	25°♄17'08	
morning rise	1864 Jan 30 14:08	28°♄18'59		retrograde	1864 Dec 30 03:29	25°♄20'24	
direct	1864 Feb 06 01:33	25°♄28'51		evening set	1865 Jan 02 18:42	24°♄03'12	
	1864 Feb 15 15:00	0°♄		inferior conj	1865 Jan 08 05:32	18°♄01'53	2°53'52
morning max el	1864 Feb 18 22:57	3°♄05'07	26°31'20	minimum elong	1865 Jan 08 02:55	18°♄10'39	2°53'12
desc. node	1864 Feb 19 21:22	4°♄02'41		min. Earth dist.	1865 Jan 09 04:06	16°♄46'38	0.66857 AU
	1864 Mar 10 08:12	0°♄		morning rise	1865 Jan 13 10:54	11°♄48'39	
morning set	1864 Mar 25 23:53	26°♄55'07		direct	1865 Jan 19 09:31	9°♄09'43	
	1864 Mar 27 14:42	0°♄		morning max el	1865 Jan 31 07:53	16°♄16'42	25°15'57
max. Earth dist.	1864 Mar 30 03:58	4°♄58'37	1.34781 AU	desc. node	1865 Feb 05 18:26	22°♄21'13	
					1865 Feb 11 17:02	0°♄	
superior conj	1864 Apr 03 17:52	14°♄13'48	-0°57'05		1865 Mar 03 06:32	0°♄	
minimum elong	1864 Apr 03 20:45	14°♄28'36	0°56'34	morning set	1865 Mar 08 13:24	9°♄15'32	
asc. node	1864 Apr 09 11:27	26°♄10'33		max. Earth dist.	1865 Mar 12 05:54	16°♄01'52	1.36511 AU
evening rise	1864 Apr 11 08:59	0°♄07'20					
	1864 Apr 11 07:34	0°♄		superior conj	1865 Mar 18 07:53	27°♄45'26	-1°23'29
	1864 Apr 29 10:14	0°♄		minimum elong	1865 Mar 18 11:51	28°♄05'08	1°22'54
evening max el	1864 Apr 30 10:21	1°♄00'55	20°53'11		1865 Mar 19 10:57	0°♄	
retrograde	1864 May 11 22:49	6°♄37'21		evening rise	1865 Mar 26 13:16	14°♄20'55	
evening set	1864 May 14 02:34	6°♄26'17		asc. node	1865 Mar 27 08:28	15°♄57'35	
desc. node	1864 May 17 20:34	5°♄19'40			1865 Apr 03 18:35	0°♄	
inferior conj	1864 May 23 10:05	2°♄28'17	-1°36'38	evening max el	1865 Apr 12 21:59	12°♄30'26	19°42'04
minimum elong	1864 May 23 05:32	2°♄34'46	1°35'01	retrograde	1865 Apr 22 16:44	17°♄13'36	
min. Earth dist.	1864 May 24 05:37	2°♄00'30	0.54943 AU	evening set	1865 Apr 24 17:34	17°♄02'16	
	1864 May 27 23:57	30°♄		inferior conj	1865 May 03 11:05	12°♄59'43	0°22'01
morning rise	1864 Jun 01 08:12	28°♄23'31		minimum elong	1865 May 03 12:03	12°♄58'13	0°21'41
direct	1864 Jun 04 19:11	27°♄57'45		desc. node	1865 May 04 17:37	12°♄11'49	
	1864 Jun 12 04:27	0°♄		min. Earth dist.	1865 May 05 19:48	11°♄31'15	0.55678 AU
morning max el	1864 Jun 17 20:21	4°♄13'04	22°49'57	morning rise	1865 May 12 03:59	8°♄25'12	
	1864 Jul 05 11:35	0°♄		direct	1865 May 16 12:11	7°♄43'09	
asc. node	1864 Jul 06 10:43	1°♄53'06		morning max el	1865 May 30 11:25	14°♄42'56	24°31'55
morning set	1864 Jul 10 08:33	9°♄51'56			1865 Jun 11 12:46	0°♄	
				asc. node	1865 Jun 23 07:47	21°♄36'56	
superior conj	1864 Jul 17 11:24	25°♄03'09	1°33'32	morning set	1865 Jun 24 20:24	24°♄48'17	
minimum elong	1864 Jul 17 09:18	24°♄51'58	1°33'20		1865 Jun 27 06:46	0°♄	
	1864 Jul 19 19:35	0°♄					
max. Earth dist.	1864 Jul 20 07:53	1°♄04'19	1.33972 AU	superior conj	1865 Jul 01 20:12	9°♄54'43	1°19'08
evening rise	1864 Jul 25 05:39	11°♄02'13		minimum elong	1865 Jul 01 17:47	9°♄41'37	1°18'48
	1864 Aug 04 14:07	0°♄		max. Earth dist.	1865 Jul 03 11:47	13°♄29'02	1.32985 AU
desc. node	1864 Aug 13 19:57	14°♄30'59		evening rise	1865 Jul 09 02:51	25°♄18'45	
	1864 Aug 26 00:29	0°♄			1865 Jul 11 11:02	0°♄	
evening max el	1864 Aug 28 17:17	2°♄44'07	27°14'18		1865 Jul 29 01:51	0°♄	
retrograde	1864 Sep 11 03:01	10°♄02'52		desc. node	1865 Jul 31 16:57	3°♄39'47	
evening set	1864 Sep 18 02:54	7°♄18'59		evening max el	1865 Aug 11 03:36	15°♄48'05	27°25'44
min. Earth dist.	1864 Sep 21 21:59	3°♄43'00	0.64802 AU	retrograde	1865 Aug 24 20:45	23°♄05'49	
inferior conj	1864 Sep 24 02:55	1°♄17'33	-2°41'08	evening set	1865 Sep 01 01:36	20°♄30'26	

























































































































min. Earth dist.	1865 Sep 04 16:19	17° \mathring{M} 26'07	0.63176 AU	min. Earth dist.	1866 Aug 18 00:04	0° \mathring{M} 33'57	0.61266 AU
inferior conj	1865 Sep 07 09:43	14° \mathring{M} 44'27	-3°35'54		1866 Aug 18 16:03	30° \mathring{R} \mathring{Q}	
minimum elong	1865 Sep 07 14:56	14° \mathring{M} 31'30	3°34'24	inferior conj	1866 Aug 21 03:43	27° \mathring{Q} 49'04	-4°22'23
morning rise	1865 Sep 14 05:35	9° \mathring{M} 31'13		minimum elong	1866 Aug 21 08:40	27° \mathring{Q} 38'13	4°21'26
direct	1865 Sep 16 17:08	9° \mathring{M} 02'06		morning rise	1866 Aug 28 10:33	22° \mathring{Q} 56'19	
asc. node	1865 Sep 19 06:58	9° \mathring{M} 34'11		direct	1866 Aug 30 20:41	22° \mathring{Q} 32'18	
morning max el	1865 Sep 23 08:25	12° \mathring{M} 27'59	17°51'44	asc. node	1866 Sep 06 04:01	25° \mathring{Q} 21'07	
	1865 Oct 05 06:16	0° \mathring{A}		morning max el	1866 Sep 06 22:27	26° \mathring{Q} 03'49	17°59'12
morning set	1865 Oct 09 17:48	7° \mathring{A} 50'12			1866 Sep 10 07:32	0° \mathring{M}	
				morning set	1866 Sep 22 19:00	21° \mathring{M} 03'39	
superior conj	1865 Oct 21 14:25	28° \mathring{A} 13'02	0°40'31		1866 Sep 27 16:03	0° \mathring{A}	
minimum elong	1865 Oct 21 18:14	28° \mathring{A} 28'59	0°39'59	superior conj	1866 Oct 03 00:32	9° \mathring{A} 34'00	1°13'20
	1865 Oct 22 16:10	0° \mathring{M}		minimum elong	1866 Oct 03 05:03	9° \mathring{A} 53'45	1°12'50
desc. node	1865 Oct 27 16:17	8° \mathring{M} 10'23		max. Earth dist.	1866 Oct 10 13:57	22° \mathring{A} 27'21	1.42239 AU
max. Earth dist.	1865 Oct 28 01:54	8° \mathring{M} 49'06	1.43811 AU	desc. node	1866 Oct 14 13:18	28° \mathring{A} 56'47	
evening rise	1865 Nov 06 00:48	22° \mathring{M} 55'04			1866 Oct 15 05:02	0° \mathring{M}	
	1865 Nov 10 15:46	0° \mathring{X}		evening rise	1866 Oct 16 17:02	2° \mathring{M} 23'39	
	1865 Dec 01 16:30	0° \mathring{Z}			1866 Nov 04 02:58	0° \mathring{X}	
evening max el	1865 Dec 05 13:49	4° \mathring{Z} 25'11	21°00'59	evening max el	1866 Nov 18 08:32	17° \mathring{X} 56'37	22°16'10
retrograde	1865 Dec 14 01:11	9° \mathring{Z} 26'31		retrograde	1866 Nov 27 21:14	23° \mathring{X} 36'32	
asc. node	1865 Dec 16 06:11	8° \mathring{Z} 59'20		evening set	1866 Dec 02 09:37	21° \mathring{X} 47'36	
evening set	1865 Dec 18 02:02	7° \mathring{Z} 54'12		asc. node	1866 Dec 03 03:14	21° \mathring{X} 08'52	
inferior conj	1865 Dec 23 10:53	1° \mathring{Z} 42'03	2°16'21	inferior conj	1866 Dec 07 18:04	15° \mathring{X} 27'57	1°31'53
minimum elong	1865 Dec 23 08:22	1° \mathring{Z} 50'40	2°15'31	minimum elong	1866 Dec 07 16:07	15° \mathring{X} 34'40	1°31'07
min. Earth dist.	1865 Dec 23 20:59	1° \mathring{Z} 07'19	0.67515 AU	min. Earth dist.	1866 Dec 07 16:52	15° \mathring{X} 32'06	0.67808 AU
	1865 Dec 24 16:44	30° \mathring{R} \mathring{X}		morning rise	1866 Dec 12 22:29	9° \mathring{X} 16'56	
morning rise	1865 Dec 28 14:31	25° \mathring{X} 28'57		direct	1866 Dec 17 15:22	7° \mathring{X} 19'21	
direct	1866 Jan 02 22:25	23° \mathring{X} 08'51		morning max el	1866 Dec 27 03:09	12° \mathring{X} 55'17	22°21'21
morning max el	1866 Jan 13 16:14	29° \mathring{X} 33'07	23°49'19		1867 Jan 09 17:44	0° \mathring{Z}	
	1866 Jan 14 02:47	0° \mathring{Z}		desc. node	1867 Jan 10 12:30	1° \mathring{Z} 06'20	
desc. node	1866 Jan 23 15:29	11° \mathring{Z} 27'00			1867 Jan 29 11:45	0° \mathring{A}	
	1866 Feb 05 13:18	0° \mathring{A}		morning set	1867 Jan 29 15:20	0° \mathring{A} 14'34	
morning set	1866 Feb 18 04:27	20° \mathring{A} 26'36		max. Earth dist.	1867 Feb 03 21:47	8° \mathring{A} 58'31	1.40720 AU
max. Earth dist.	1866 Feb 22 01:01	27° \mathring{A} 09'30	1.38572 AU				
	1866 Feb 23 15:13	0° \mathring{X}		superior conj	1867 Feb 11 17:01	22° \mathring{A} 33'33	-2°01'04
superior conj	1866 Mar 01 09:09	10° \mathring{X} 36'00	-1°45'58	minimum elong	1867 Feb 11 19:39	22° \mathring{A} 45'22	2°00'57
minimum elong	1866 Mar 01 13:21	10° \mathring{X} 55'48	1°45'33		1867 Feb 15 19:13	0° \mathring{X}	
evening rise	1866 Mar 10 10:21	28° \mathring{X} 07'53		evening rise	1867 Feb 21 21:01	11° \mathring{X} 20'16	
	1866 Mar 11 09:21	0° \mathring{Y}		asc. node	1867 Mar 01 02:31	24° \mathring{X} 34'08	
asc. node	1866 Mar 14 05:30	5° \mathring{Y} 27'28			1867 Mar 04 09:48	0° \mathring{Y}	
evening max el	1866 Mar 26 20:25	24° \mathring{Y} 38'40	18°50'30	evening max el	1867 Mar 10 02:41	7° \mathring{Y} 18'14	18°19'05
retrograde	1866 Apr 04 02:23	28° \mathring{Y} 39'13		retrograde	1867 Mar 17 07:18	10° \mathring{Y} 52'49	
evening set	1866 Apr 06 08:07	28° \mathring{Y} 22'40		evening set	1867 Mar 19 18:57	10° \mathring{Y} 28'13	
inferior conj	1866 Apr 14 06:10	24° \mathring{Y} 03'50	1°59'23	inferior conj	1867 Mar 26 22:37	5° \mathring{Y} 48'42	3°03'09
minimum elong	1866 Apr 14 10:02	23° \mathring{Y} 56'49	1°58'14	minimum elong	1867 Mar 27 02:09	5° \mathring{Y} 41'11	3°02'25
min. Earth dist.	1866 Apr 17 12:13	21° \mathring{Y} 43'25	0.57215 AU	min. Earth dist.	1867 Mar 30 08:55	2° \mathring{Y} 55'29	0.59223 AU
desc. node	1866 Apr 21 14:39	19° \mathring{Y} 16'13		morning rise	1867 Apr 03 06:50	0° \mathring{Y} 12'54	
morning rise	1866 Apr 22 08:51	18° \mathring{Y} 55'31			1867 Apr 03 16:22	30° \mathring{R} \mathring{X}	
direct	1866 Apr 27 18:44	17° \mathring{Y} 44'39		desc. node	1867 Apr 08 11:39	28° \mathring{X} 29'07	
morning max el	1866 May 12 02:29	25° \mathring{Y} 13'12	26°04'32	direct	1867 Apr 09 14:14	28° \mathring{X} 25'50	
	1866 May 16 12:57	0° \mathring{Z}			1867 Apr 15 17:22	0° \mathring{Y}	
	1866 Jun 04 13:12	0° \mathring{I}		morning max el	1867 Apr 23 22:37	6° \mathring{Y} 10'59	27°12'52
morning set	1866 Jun 09 07:41	9° \mathring{I} 42'13			1867 May 11 16:26	0° \mathring{Z}	
asc. node	1866 Jun 10 04:48	11° \mathring{I} 34'07		morning set	1867 May 24 16:45	24° \mathring{Z} 28'33	
					1867 May 27 07:17	0° \mathring{I}	
superior conj	1866 Jun 16 07:21	24° \mathring{I} 51'46	1°00'32	asc. node	1867 May 28 01:49	1° \mathring{I} 39'56	
minimum elong	1866 Jun 16 05:07	24° \mathring{I} 39'31	1°00'08	superior conj	1867 May 31 19:08	9° \mathring{I} 48'26	0°38'27
max. Earth dist.	1866 Jun 16 21:44	26° \mathring{I} 10'44	1.32397 AU	minimum elong	1867 May 31 17:31	9° \mathring{I} 39'33	0°38'08
	1866 Jun 18 15:39	0° \mathring{Z}		max. Earth dist.	1867 May 31 10:12	8° \mathring{I} 59'18	1.32192 AU
evening rise	1866 Jun 23 07:08	9° \mathring{Z} 55'19		evening rise	1867 Jun 07 15:58	24° \mathring{I} 43'55	
	1866 Jul 03 18:20	0° \mathring{Q}			1867 Jun 10 04:53	0° \mathring{Z}	
desc. node	1866 Jul 18 13:58	21° \mathring{Q} 57'40			1867 Jun 27 19:03	0° \mathring{Q}	
evening max el	1866 Jul 24 09:47	28° \mathring{Q} 16'01	27°04'49	desc. node	1867 Jul 05 10:58	9° \mathring{Q} 03'39	
	1866 Jul 26 08:04	0° \mathring{M}		evening max el	1867 Jul 06 09:15	9° \mathring{Q} 58'03	26°11'00
retrograde	1866 Aug 07 07:14	5° \mathring{M} 30'06		retrograde	1867 Jul 20 09:03	17° \mathring{Q} 08'52	
evening set	1866 Aug 14 08:28	3° \mathring{M} 16'21					

evening set	1867 Jul 26 18:48	15° Ω 28'32		retrograde	1868 Jul 01 00:40	27° \mathfrak{D} 59'25	
min. Earth dist.	1867 Jul 30 21:57	12° Ω 52'14	0.59209 AU	evening set	1868 Jul 06 05:28	26° \mathfrak{D} 57'54	
inferior conj	1867 Aug 03 05:21	10° Ω 21'54	-4°52'21	min. Earth dist.	1868 Jul 11 13:00	24° \mathfrak{D} 09'06	0.57246 AU
minimum elong	1867 Aug 03 07:52	10° Ω 17'06	4°52'09	inferior conj	1868 Jul 14 11:29	22° \mathfrak{D} 13'05	-4°53'28
morning rise	1867 Aug 10 23:04	5° Ω 52'02		minimum elong	1868 Jul 14 09:09	22° \mathfrak{D} 16'56	4°53'20
direct	1867 Aug 13 10:25	5° Ω 31'04		morning rise	1868 Jul 22 15:33	18° \mathfrak{D} 05'06	
morning max el	1867 Aug 21 07:17	9° Ω 17'47	18°26'33	direct	1868 Jul 25 05:58	17° \mathfrak{D} 45'52	
asc. node	1867 Aug 24 01:03	12° Ω 19'16		morning max el	1868 Aug 03 07:49	22° \mathfrak{D} 00'08	19°14'56
	1867 Sep 03 19:24	0° \mathfrak{N}		asc. node	1868 Aug 09 22:05	0° Ω 13'16	
morning set	1867 Sep 06 09:13	4° \mathfrak{N} 54'41			1868 Aug 09 18:36	0° Ω	
				morning set	1868 Aug 20 08:30	19° Ω 12'08	
					1868 Aug 25 18:29	0° \mathfrak{N}	
superior conj	1867 Sep 15 10:00	22° \mathfrak{N} 04'10	1°34'05	superior conj	1868 Aug 28 13:06	5° \mathfrak{N} 26'53	1°44'09
minimum elong	1867 Sep 15 13:08	22° \mathfrak{N} 18'37	1°33'50	minimum elong	1868 Aug 28 14:18	5° \mathfrak{N} 32'43	1°44'06
	1867 Sep 19 18:53	0° \mathfrak{D}		max. Earth dist.	1868 Sep 04 00:15	17° \mathfrak{N} 37'59	1.38242 AU
max. Earth dist.	1867 Sep 22 20:46	5° \mathfrak{D} 24'05	1.40299 AU	evening rise	1868 Sep 07 19:03	24° \mathfrak{N} 23'32	
evening rise	1867 Sep 27 05:59	12° \mathfrak{D} 49'56			1868 Sep 11 01:19	0° \mathfrak{D}	
desc. node	1867 Oct 01 10:19	19° \mathfrak{D} 38'59		desc. node	1868 Sep 17 07:21	10° \mathfrak{D} 12'42	
	1867 Oct 08 01:55	0° \mathfrak{M}			1868 Sep 30 18:57	0° \mathfrak{M}	
	1867 Oct 30 11:54	0° \mathfrak{X}		evening max el	1868 Oct 13 11:04	15° \mathfrak{M} 08'03	24°54'01
evening max el	1867 Oct 31 22:55	1° \mathfrak{X} 30'30	23°35'56	retrograde	1868 Oct 25 03:34	21° \mathfrak{M} 55'42	
retrograde	1867 Nov 11 14:20	7° \mathfrak{X} 47'35		evening set	1868 Oct 30 19:13	19° \mathfrak{M} 33'17	
evening set	1867 Nov 16 15:53	5° \mathfrak{X} 41'27		min. Earth dist.	1868 Nov 04 08:29	14° \mathfrak{M} 24'22	0.67366 AU
asc. node	1867 Nov 20 00:15	2° \mathfrak{X} 02'36		inferior conj	1868 Nov 05 06:56	13° \mathfrak{M} 10'18	-0°12'23
min. Earth dist.	1867 Nov 21 13:28	29° \mathfrak{M} 58'32	0.67756 AU	minimum elong	1868 Nov 05 07:14	13° \mathfrak{M} 09'17	0°12'15
	1867 Nov 21 13:02	30° \mathfrak{R} \mathfrak{M}		transit middle	1868 Nov 05 07:14	13° \mathfrak{M} 09'17	0°12'15
inferior conj	1867 Nov 22 01:19	29° \mathfrak{M} 18'03	0°41'52	transit begin	1868 Nov 05 05:25	13° \mathfrak{M} 15'16	
minimum elong	1867 Nov 22 00:20	29° \mathfrak{M} 21'23	0°41'27	transit end	1868 Nov 05 09:03	13° \mathfrak{M} 03'19	
morning rise	1867 Nov 27 08:46	23° \mathfrak{M} 11'06		asc. node	1868 Nov 05 21:18	12° \mathfrak{M} 23'04	
direct	1867 Dec 01 11:26	21° \mathfrak{M} 36'19		morning rise	1868 Nov 10 19:24	7° \mathfrak{M} 09'44	
morning max el	1867 Dec 09 20:09	26° \mathfrak{M} 27'29	20°59'59	direct	1868 Nov 14 09:29	5° \mathfrak{M} 55'36	
	1867 Dec 13 01:14	0° \mathfrak{X}		morning max el	1868 Nov 21 20:57	10° \mathfrak{M} 10'59	19°50'31
desc. node	1867 Dec 28 09:33	21° \mathfrak{X} 10'00			1868 Dec 06 16:20	0° \mathfrak{X}	
	1868 Jan 03 06:20	0° \mathfrak{Z}		desc. node	1868 Dec 14 06:36	11° \mathfrak{X} 31'26	
morning set	1868 Jan 08 22:52	8° \mathfrak{Z} 47'23		morning set	1868 Dec 17 18:59	16° \mathfrak{X} 56'09	
max. Earth dist.	1868 Jan 17 01:19	21° \mathfrak{Z} 43'09	1.42665 AU		1868 Dec 26 04:05	0° \mathfrak{Z}	
	1868 Jan 22 01:29	0° \approx		max. Earth dist.	1868 Dec 29 12:06	5° \mathfrak{Z} 16'42	1.44146 AU
superior conj	1868 Jan 24 02:09	3° \approx 25'23	-2°04'10	superior conj	1869 Jan 03 09:02	13° \mathfrak{Z} 06'04	-1°50'25
minimum elong	1868 Jan 24 00:42	3° \approx 19'17	2°04'09	minimum elong	1869 Jan 03 02:13	12° \mathfrak{Z} 38'26	1°49'58
evening rise	1868 Feb 04 17:25	23° \approx 49'25			1869 Jan 13 14:03	0° \approx	
	1868 Feb 08 04:17	0° \mathfrak{H}		evening rise	1869 Jan 16 19:17	5° \approx 27'42	
asc. node	1868 Feb 15 23:33	13° \mathfrak{H} 09'34			1869 Feb 01 00:22	0° \mathfrak{H}	
evening max el	1868 Feb 21 13:34	20° \mathfrak{H} 19'40	18°07'26	asc. node	1869 Feb 01 20:35	1° \mathfrak{H} 04'45	
retrograde	1868 Feb 28 04:26	23° \mathfrak{H} 43'58		evening max el	1869 Feb 04 02:09	3° \mathfrak{H} 36'05	18°14'57
evening set	1868 Mar 01 21:22	23° \mathfrak{H} 09'49		retrograde	1869 Feb 10 13:13	7° \mathfrak{H} 03'35	
inferior conj	1868 Mar 08 10:14	18° \mathfrak{H} 09'29	3°35'40	evening set	1869 Feb 13 11:16	6° \mathfrak{H} 18'48	
minimum elong	1868 Mar 08 11:54	18° \mathfrak{H} 05'22	3°35'31	inferior conj	1869 Feb 19 13:06	0° \mathfrak{H} 58'54	3°43'54
min. Earth dist.	1868 Mar 11 12:51	15° \mathfrak{H} 07'59	0.61362 AU	minimum elong	1869 Feb 19 12:50	0° \mathfrak{H} 59'36	3°43'55
morning rise	1868 Mar 15 00:49	12° \mathfrak{H} 15'46			1869 Feb 20 10:21	30° \mathfrak{R} \approx	
direct	1868 Mar 21 20:42	9° \mathfrak{H} 54'43		min. Earth dist.	1869 Feb 22 02:00	28° \approx 11'43	0.63360 AU
desc. node	1868 Mar 25 08:42	10° \mathfrak{H} 28'49		morning rise	1869 Feb 25 13:31	24° \approx 55'00	
morning max el	1868 Apr 05 01:10	17° \mathfrak{H} 48'58	27°46'42	direct	1869 Mar 04 12:09	22° \approx 11'02	
	1868 Apr 15 05:29	0° \mathfrak{Y}		desc. node	1869 Mar 12 05:45	24° \approx 57'24	
	1868 May 03 09:05	0° \mathfrak{B}			1869 Mar 18 05:55	0° \mathfrak{H}	
morning set	1868 May 07 21:40	8° \mathfrak{B} 59'35		morning max el	1869 Mar 18 08:36	0° \mathfrak{H} 06'40	27°43'02
asc. node	1868 May 13 22:50	21° \mathfrak{B} 49'06			1869 Apr 09 05:27	0° \mathfrak{Y}	
max. Earth dist.	1868 May 13 21:03	21° \mathfrak{B} 39'25	1.32367 AU	morning set	1869 Apr 21 20:08	23° \mathfrak{Y} 07'59	
superior conj	1868 May 15 05:47	24° \mathfrak{B} 37'51	0°13'36		1869 Apr 25 04:56	0° \mathfrak{B}	
minimum elong	1868 May 15 05:10	24° \mathfrak{B} 34'25	0°13'28	max. Earth dist.	1869 Apr 27 02:17	3° \mathfrak{B} 57'51	1.32951 AU
behind sun begin	1868 May 15 02:27	24° \mathfrak{B} 19'36		superior conj	1869 Apr 29 13:36	9° \mathfrak{B} 14'25	-0°13'17
behind sun end	1868 May 15 07:52	24° \mathfrak{B} 49'15		minimum elong	1869 Apr 29 14:15	9° \mathfrak{B} 17'54	0°13'09
	1868 May 17 16:39	0° \mathfrak{I}		behind sun begin	1869 Apr 29 11:15	9° \mathfrak{B} 01'44	
evening rise	1868 May 22 03:12	9° \mathfrak{I} 36'02		behind sun end	1869 Apr 29 17:15	9° \mathfrak{B} 34'04	
	1868 Jun 01 15:28	0° \mathfrak{D}		asc. node	1869 Apr 30 19:53	11° \mathfrak{B} 57'38	
evening max el	1868 Jun 17 01:39	20° \mathfrak{D} 54'35	24°50'25				
desc. node	1868 Jun 21 07:58	24° \mathfrak{D} 27'58					

evening rise	1869 May 06 14:59	24°♄25'35			1870 Apr 16 18:04	0°♄	
	1869 May 09 07:18	0°♄		asc. node	1870 Apr 17 16:57	2°♄01'25	
	1869 May 28 05:34	0°♄		evening rise	1870 Apr 21 01:30	9°♄06'27	
evening max el	1869 May 29 15:26	1°♄25'39	23°15'44		1870 May 02 03:06	0°♄	
desc. node	1869 Jun 08 04:59	7°♄35'08		evening max el	1870 May 11 09:58	12°♄02'11	21°41'58
retrograde	1869 Jun 12 04:03	8°♄10'51		retrograde	1870 May 23 19:50	18°♄07'25	
evening set	1869 Jun 15 20:44	7°♄40'54		evening set	1870 May 26 08:17	17°♄53'08	
min. Earth dist.	1869 Jun 23 01:13	4°♄25'14	0.55718 AU	desc. node	1870 May 26 01:59	17°♄55'55	
inferior conj	1869 Jun 24 21:51	3°♄19'39	-4°11'51	inferior conj	1870 Jun 04 18:09	13°♄51'10	-2°42'58
minimum elong	1869 Jun 24 14:46	3°♄30'06	4°10'25	minimum elong	1870 Jun 04 11:03	14°♄01'06	2°40'42
	1869 Jul 01 11:57	30°♄		min. Earth dist.	1870 Jun 04 13:10	13°♄58'08	0.54954 AU
morning rise	1869 Jul 03 11:21	29°♄25'38		morning rise	1870 Jun 13 14:48	9°♄55'58	
direct	1869 Jul 06 06:21	29°♄06'45		direct	1870 Jun 16 18:09	9°♄34'18	
	1869 Jul 10 19:20	0°♄		morning max el	1870 Jun 28 23:59	15°♄20'18	21°53'02
morning max el	1869 Jul 16 21:37	4°♄02'17	20°24'29		1870 Jul 10 04:51	0°♄	
asc. node	1869 Jul 27 19:08	18°♄50'28		asc. node	1870 Jul 14 16:13	8°♄00'23	
	1869 Aug 02 16:50	0°♄		morning set	1870 Jul 19 23:24	18°♄37'33	
morning set	1869 Aug 04 13:57	3°♄48'24			1870 Jul 25 08:44	0°♄	
superior conj	1869 Aug 12 04:53	19°♄27'51	1°45'24	superior conj	1870 Jul 27 05:31	3°♄55'56	1°39'34
minimum elong	1869 Aug 12 04:23	19°♄25'22	1°45'23	minimum elong	1870 Jul 27 03:51	3°♄47'09	1°39'27
max. Earth dist.	1869 Aug 17 06:19	29°♄29'23	1.36327 AU	max. Earth dist.	1870 Jul 30 20:25	11°♄25'14	1.34722 AU
	1869 Aug 17 12:40	0°♄		evening rise	1870 Aug 04 08:58	20°♄23'10	
evening rise	1869 Aug 21 05:34	6°♄58'36			1870 Aug 09 12:55	0°♄	
	1869 Sep 03 19:53	0°♄		desc. node	1870 Aug 22 01:22	20°♄33'01	
desc. node	1869 Sep 04 04:21	0°♄32'46			1870 Aug 28 18:25	0°♄	
evening max el	1869 Sep 25 23:02	28°♄47'33	26°02'58	evening max el	1870 Sep 08 11:27	12°♄23'01	26°54'58
	1869 Sep 27 05:49	0°♄		retrograde	1870 Sep 21 15:02	19°♄39'14	
retrograde	1869 Oct 08 12:02	5°♄54'52		evening set	1870 Sep 28 09:16	16°♄56'11	
evening set	1869 Oct 14 17:43	3°♄19'17		min. Earth dist.	1870 Oct 02 08:07	12°♄59'28	0.65580 AU
	1869 Oct 17 23:05	30°♄		inferior conj	1870 Oct 04 05:39	10°♄47'38	-2°07'52
min. Earth dist.	1869 Oct 18 23:30	28°♄46'00	0.66644 AU	minimum elong	1870 Oct 04 09:03	10°♄37'45	2°06'33
inferior conj	1869 Oct 20 09:03	27°♄01'15	-1°09'34	morning rise	1870 Oct 10 09:31	5°♄08'18	
minimum elong	1869 Oct 20 10:52	26°♄55'33	1°08'47	asc. node	1870 Oct 10 15:25	5°♄01'06	
asc. node	1869 Oct 23 18:22	23°♄06'29		direct	1870 Oct 13 04:59	4°♄24'54	
morning rise	1869 Oct 26 04:24	21°♄09'44		morning max el	1870 Oct 19 18:15	7°♄58'24	18°17'18
direct	1869 Oct 29 07:59	20°♄12'51			1870 Nov 03 22:42	0°♄	
morning max el	1869 Nov 05 04:56	24°♄02'34	18°55'47	morning set	1870 Nov 07 18:32	6°♄14'14	
	1869 Nov 10 03:58	0°♄		desc. node	1870 Nov 18 00:42	22°♄46'27	
morning set	1869 Nov 27 04:42	25°♄52'13					
	1869 Nov 29 19:50	0°♄		superior conj	1870 Nov 22 19:00	0°♄19'23	-0°31'31
desc. node	1869 Dec 01 03:39	2°♄04'49		minimum elong	1870 Nov 22 14:55	0°♄03'17	0°30'59
max. Earth dist.	1869 Dec 12 04:24	19°♄23'26	1.44988 AU		1870 Nov 22 14:06	0°♄	
superior conj	1869 Dec 13 17:17	21°♄48'35	-1°17'45	max. Earth dist.	1870 Nov 24 23:33	3°♄46'15	1.45102 AU
minimum elong	1869 Dec 13 08:39	21°♄14'34	1°16'47	evening rise	1870 Dec 09 03:00	25°♄54'08	
	1869 Dec 18 21:33	0°♄			1870 Dec 11 17:56	0°♄	
evening rise	1869 Dec 28 22:42	16°♄08'23		greatest brilliancy	1870 Dec 20 12:31	13°♄36'54	-0.7m
	1870 Jan 06 11:51	0°♄			1871 Jan 01 10:53	0°♄	
evening max el	1870 Jan 18 13:46	17°♄00'52	18°40'51	evening max el	1871 Jan 01 22:08	0°♄29'33	19°23'48
asc. node	1870 Jan 19 17:39	18°♄07'23		asc. node	1871 Jan 06 14:42	4°♄03'22	
retrograde	1870 Jan 25 05:28	20°♄43'04		retrograde	1871 Jan 09 01:52	4°♄36'34	
evening set	1870 Jan 28 09:13	19°♄46'37		evening set	1871 Jan 12 12:32	3°♄27'11	
inferior conj	1870 Feb 03 03:15	14°♄08'48	3°34'20		1871 Jan 16 02:49	30°♄	
minimum elong	1870 Feb 03 01:34	14°♄13'53	3°34'09	inferior conj	1871 Jan 18 01:22	27°♄33'37	3°11'37
min. Earth dist.	1870 Feb 05 00:35	11°♄51'55	0.65039 AU	minimum elong	1871 Jan 17 22:55	27°♄41'34	3°11'06
morning rise	1870 Feb 08 17:29	7°♄59'27		min. Earth dist.	1871 Jan 19 07:45	25°♄55'14	0.66317 AU
direct	1870 Feb 15 10:50	5°♄07'25		morning rise	1871 Jan 23 09:04	21°♄21'26	
desc. node	1870 Feb 27 02:49	11°♄18'58		direct	1871 Jan 29 15:29	18°♄34'53	
morning max el	1870 Feb 28 18:07	12°♄54'01	27°05'23	morning max el	1871 Feb 11 03:32	25°♄59'35	26°01'10
	1870 Mar 14 12:36	0°♄		desc. node	1871 Feb 13 23:53	29°♄01'58	
	1870 Apr 01 19:38	0°♄			1871 Feb 14 20:17	0°♄	
morning set	1870 Apr 05 09:11	6°♄44'11		morning set	1871 Mar 08 01:52	0°♄	
max. Earth dist.	1870 Apr 09 22:08	15°♄44'28	1.33981 AU	max. Earth dist.	1871 Mar 19 08:44	19°♄36'24	
					1871 Mar 23 06:36	27°♄00'28	1.35472 AU
superior conj	1870 Apr 13 16:34	23°♄31'50	-0°41'08		1871 Mar 24 19:28	0°♄	
minimum elong	1870 Apr 13 18:38	23°♄42'42	0°40'43	superior conj	1871 Mar 28 12:11	7°♄22'49	-1°08'36

minimum elong	1871 Mar 28 15:35	7° Υ 40'05	1°08'01	superior conj	1872 Mar 10 21:18	20° Υ 38'43	-1°33'41
asc. node	1871 Apr 04 14:00	21° Υ 56'07		minimum elong	1872 Mar 11 01:31	20° Υ 59'14	1°33'08
evening rise	1871 Apr 05 08:45	23° Υ 32'18			1872 Mar 15 15:04	0° Υ	
	1871 Apr 08 13:41	0° Υ		evening rise	1872 Mar 19 10:22	7° Υ 36'19	
evening max el	1871 Apr 23 14:44	23° Υ 08'43	20°20'35	asc. node	1872 Mar 21 11:02	11° Υ 37'08	
retrograde	1871 May 04 09:09	28° Υ 21'43			1872 Apr 01 02:30	0° Υ	
evening set	1871 May 06 10:23	28° Υ 11'10		evening max el	1872 Apr 05 07:10	4° Υ 55'20	19°17'35
desc. node	1871 May 12 23:02	25° Υ 41'33		retrograde	1872 Apr 14 09:15	9° Υ 19'02	
inferior conj	1871 May 15 13:08	24° Υ 13'04	-0°45'16	evening set	1872 Apr 16 11:39	9° Υ 05'57	
minimum elong	1871 May 15 11:01	24° Υ 16'11	0°44'29	inferior conj	1872 Apr 24 21:02	4° Υ 57'00	1°07'08
min. Earth dist.	1871 May 17 01:58	23° Υ 19'12	0.55144 AU	minimum elong	1872 Apr 24 23:40	4° Υ 52'36	1°06'14
morning rise	1871 May 24 10:21	19° Υ 57'33		min. Earth dist.	1872 Apr 27 16:47	3° Υ 04'58	0.56248 AU
direct	1871 May 28 05:33	19° Υ 26'19		desc. node	1872 Apr 28 20:04	2° Υ 22'21	
morning max el	1871 Jun 10 17:34	26° Υ 01'30	23°33'36	morning rise	1872 May 03 08:46	0° Υ 07'52	
	1871 Jun 14 12:04	0° Υ			1872 May 03 17:51	30° Υ	
asc. node	1871 Jul 01 13:16	27° Υ 33'47		direct	1872 May 08 03:35	29° Υ 15'18	
	1871 Jul 02 17:57	0° Υ			1872 May 12 13:09	0° Υ	
morning set	1871 Jul 04 10:51	3° Υ 32'52		morning max el	1872 May 22 08:05	6° Υ 28'53	25°13'31
					1872 Jun 08 10:58	0° Υ	
superior conj	1871 Jul 11 12:00	18° Υ 40'55	1°28'00	asc. node	1872 Jun 17 10:18	17° Υ 24'14	
minimum elong	1871 Jul 11 09:42	18° Υ 28'35	1°27'44	morning set	1872 Jun 17 22:39	18° Υ 29'09	
max. Earth dist.	1871 Jul 13 19:48	23° Υ 39'00	1.33502 AU		1872 Jun 23 06:35	0° Υ	
	1871 Jul 16 20:45	0° Υ					
evening rise	1871 Jul 19 00:42	4° Υ 23'32		superior conj	1872 Jun 24 22:01	3° Υ 35'39	1°11'43
	1871 Aug 02 06:01	0° Υ		minimum elong	1872 Jun 24 19:37	3° Υ 22'35	1°11'20
desc. node	1871 Aug 08 22:22	10° Υ 03'53		max. Earth dist.	1872 Jun 26 02:44	6° Υ 12'16	1.32685 AU
evening max el	1871 Aug 21 23:05	25° Υ 41'55	27°22'54	evening rise	1872 Jul 02 01:14	18° Υ 49'26	
	1871 Aug 27 05:12	0° Υ			1872 Jul 07 17:03	0° Υ	
retrograde	1871 Sep 04 12:04	2° Υ 59'54		desc. node	1872 Jul 25 19:22	28° Υ 53'06	
evening set	1871 Sep 11 15:03	0° Υ 18'12			1872 Jul 26 16:16	0° Υ	
	1871 Sep 12 00:27	30° Υ		evening max el	1872 Aug 03 07:44	8° Υ 31'03	27°20'49
min. Earth dist.	1871 Sep 15 07:57	26° Υ 56'36	0.64157 AU	retrograde	1872 Aug 17 02:45	15° Υ 47'33	
inferior conj	1871 Sep 17 18:15	24° Υ 23'13	-3°04'57	evening set	1872 Aug 24 07:31	13° Υ 19'19	
minimum elong	1871 Sep 17 23:00	24° Υ 10'40	3°03'23	min. Earth dist.	1872 Aug 27 21:33	10° Υ 26'16	0.62395 AU
morning rise	1871 Sep 24 08:01	18° Υ 59'36		inferior conj	1872 Aug 30 19:57	7° Υ 41'09	-3°57'02
direct	1871 Sep 26 21:47	18° Υ 26'08		minimum elong	1872 Aug 31 01:16	7° Υ 28'37	3°55'43
asc. node	1871 Sep 27 12:29	18° Υ 28'03		morning rise	1872 Sep 06 20:30	2° Υ 36'34	
morning max el	1871 Oct 03 10:12	21° Υ 52'07	17°55'58	direct	1872 Sep 09 07:07	2° Υ 09'57	
	1871 Oct 09 16:37	0° Υ		asc. node	1872 Sep 13 09:31	3° Υ 27'03	
morning set	1871 Oct 20 12:05	17° Υ 57'01		morning max el	1872 Sep 16 01:52	5° Υ 36'54	17°52'38
	1871 Oct 27 15:08	0° Υ			1872 Oct 01 18:03	0° Υ	
				morning set	1872 Oct 02 03:27	0° Υ 42'05	
superior conj	1871 Nov 02 11:27	9° Υ 37'16	0°16'21				
minimum elong	1871 Nov 02 13:17	9° Υ 44'44	0°16'05	superior conj	1872 Oct 13 06:10	20° Υ 13'15	0°55'56
behind sun begin	1871 Nov 02 12:17	9° Υ 40'36		minimum elong	1872 Oct 13 10:39	20° Υ 32'19	0°55'22
behind sun end	1871 Nov 02 14:18	9° Υ 48'51			1872 Oct 19 02:45	0° Υ	
desc. node	1871 Nov 04 21:43	13° Υ 32'34		max. Earth dist.	1872 Oct 20 08:51	2° Υ 02'46	1.43198 AU
max. Earth dist.	1871 Nov 07 18:10	18° Υ 05'59	1.44476 AU	desc. node	1872 Oct 21 18:43	4° Υ 19'51	
	1871 Nov 15 08:09	0° Υ		evening rise	1872 Oct 27 23:57	14° Υ 11'04	
evening rise	1871 Nov 18 14:30	5° Υ 02'45			1872 Nov 07 09:32	0° Υ	
	1871 Dec 05 05:03	0° Υ		evening max el	1872 Nov 27 23:10	27° Υ 29'36	21°32'01
evening max el	1871 Dec 16 01:31	13° Υ 59'26	20°21'52		1872 Nov 30 16:18	0° Υ	
retrograde	1871 Dec 23 23:48	18° Υ 39'26		retrograde	1872 Dec 06 21:05	2° Υ 47'49	
asc. node	1871 Dec 24 11:44	18° Υ 38'03		asc. node	1872 Dec 10 08:45	1° Υ 40'42	
evening set	1871 Dec 27 18:58	17° Υ 15'47		evening set	1872 Dec 11 02:36	1° Υ 08'29	
inferior conj	1872 Jan 02 04:43	11° Υ 09'17	2°38'54		1872 Dec 12 08:54	30° Υ	
minimum elong	1872 Jan 02 02:05	11° Υ 18'13	2°38'07	inferior conj	1872 Dec 16 11:04	24° Υ 52'25	1°58'15
min. Earth dist.	1872 Jan 02 21:43	10° Υ 11'43	0.67186 AU	minimum elong	1872 Dec 16 08:45	25° Υ 00'26	1°57'25
morning rise	1872 Jan 07 09:03	4° Υ 56'01		min. Earth dist.	1872 Dec 16 16:11	24° Υ 34'41	0.67678 AU
direct	1872 Jan 13 01:27	2° Υ 24'45		morning rise	1872 Dec 21 14:44	18° Υ 39'51	
morning max el	1872 Jan 24 12:09	9° Υ 14'23	24°39'54	direct	1872 Dec 26 16:05	16° Υ 29'18	
desc. node	1872 Jan 31 20:56	17° Υ 42'48		morning max el	1873 Jan 05 21:19	22° Υ 33'43	23°11'33
	1872 Feb 09 21:27	0° Υ			1873 Jan 12 09:05	0° Υ	
	1872 Feb 28 17:03	0° Υ		desc. node	1873 Jan 17 17:57	7° Υ 04'19	
morning set	1872 Feb 29 13:32	1° Υ 29'50			1873 Feb 02 06:00	0° Υ	
max. Earth dist.	1872 Mar 04 05:20	8° Υ 03'58	1.37362 AU	morning set	1873 Feb 09 17:09	12° Υ 07'03	
				max. Earth dist.	1873 Feb 14 00:08	19° Υ 25'32	1.39489 AU

	1873 Feb 19 22:48	0°♄		minimum elong	1874 Feb 03 15:49	14°≈44'52	2°04'08
superior conj	1873 Feb 21 15:44	3°♄07'58	-1°53'32	evening rise	1874 Feb 12 03:20	0°♄	
minimum elong	1873 Feb 21 19:32	3°♄25'35	1°53'14	asc. node	1874 Feb 14 08:34	4°♄04'52	
evening rise	1873 Mar 03 03:27	21°♄09'42		evening max el	1874 Feb 23 05:05	19°♄52'51	
	1873 Mar 07 19:24	0°♄			1874 Mar 02 17:59	0°♄08'24	18°11'45
asc. node	1873 Mar 08 08:04	0°♄58'11		retrograde	1874 Mar 02 14:35	0°♄	
evening max el	1873 Mar 19 09:17	17°♄17'53	18°34'40	evening set	1874 Mar 09 15:20	3°♄36'27	
retrograde	1873 Mar 27 03:14	21°♄05'36			1874 Mar 12 05:20	3°♄07'56	
evening set	1873 Mar 29 11:20	20°♄46'02		inferior conj	1874 Mar 17 04:33	30°♄	
inferior conj	1873 Apr 06 01:15	16°♄18'48	2°30'35	minimum elong	1874 Mar 19 02:17	28°♄19'49	3°20'18
minimum elong	1873 Apr 06 05:17	16°♄10'58	2°29'32	min. Earth dist.	1874 Mar 19 05:06	28°♄13'25	3°19'52
min. Earth dist.	1873 Apr 09 11:00	13°♄41'20	0.58029 AU	morning rise	1874 Mar 22 10:36	25°♄19'46	0.60143 AU
morning rise	1873 Apr 13 20:12	10°♄57'12		direct	1874 Mar 26 02:42	22°♄35'21	
desc. node	1873 Apr 15 17:06	10°♄11'08		desc. node	1874 Apr 01 16:51	20°♄32'32	
direct	1873 Apr 19 15:59	9°♄31'14		morning max el	1874 Apr 02 14:09	20°♄34'41	
morning max el	1873 May 04 01:05	17°♄08'58	26°37'17		1874 Apr 15 23:48	28°♄22'37	27°31'38
	1873 May 14 15:24	0°♄			1874 Apr 17 13:53	0°♄	
	1873 May 31 18:35	0°♄		morning set	1874 May 08 09:10	0°♄	
morning set	1873 Jun 02 09:10	3°♄20'29		asc. node	1874 May 17 16:42	18°♄00'58	
asc. node	1873 Jun 04 07:20	7°♄25'43			1874 May 22 04:22	27°♄33'34	
				max. Earth dist.	1874 May 23 07:15	0°♄	
superior conj	1873 Jun 09 09:38	18°♄33'16	0°51'33		1874 May 24 02:04	1°♄42'59	1.32218 AU
minimum elong	1873 Jun 09 07:37	18°♄22'10	0°51'10	superior conj	1874 May 24 21:10	3°♄27'45	0°28'13
max. Earth dist.	1873 Jun 09 13:59	18°♄57'12	1.32259 AU	minimum elong	1874 May 24 19:55	3°♄20'58	0°27'56
	1873 Jun 14 15:42	0°♄		evening rise	1874 May 31 17:47	18°♄22'45	
evening rise	1873 Jun 16 07:41	3°♄31'44			1874 Jun 06 11:12	0°♄	
	1873 Jun 30 12:44	0°♄			1874 Jun 26 07:14	0°♄	
desc. node	1873 Jul 12 16:23	16°♄43'28		evening max el	1874 Jun 28 07:31	2°♄01'43	25°39'28
evening max el	1873 Jul 16 11:04	20°♄39'27	26°45'44	desc. node	1874 Jun 29 13:24	3°♄10'28	
retrograde	1873 Jul 30 10:06	27°♄53'08		retrograde	1874 Jul 12 08:00	9°♄10'40	
evening set	1873 Aug 06 06:16	25°♄52'14		evening set	1874 Jul 18 06:38	7°♄47'15	
min. Earth dist.	1873 Aug 10 00:57	23°♄14'37	0.60389 AU	min. Earth dist.	1874 Jul 22 19:47	5°♄07'27	0.58337 AU
inferior conj	1873 Aug 13 07:23	20°♄33'14	-4°37'50	inferior conj	1874 Jul 26 01:03	2°♄49'36	-4°57'17
minimum elong	1873 Aug 13 11:38	20°♄24'28	4°37'12	minimum elong	1874 Jul 26 01:44	2°♄48'22	4°57'16
morning rise	1873 Aug 20 18:56	15°♄50'19			1874 Jul 30 08:18	30°♄	
direct	1873 Aug 23 05:08	15°♄27'57		morning rise	1874 Aug 02 23:12	28°♄29'10	
morning max el	1873 Aug 30 14:08	19°♄04'53	18°08'24	direct	1874 Aug 05 11:33	28°♄09'06	
asc. node	1873 Aug 31 06:33	19°♄46'11			1874 Aug 11 04:33	0°♄	
	1873 Sep 07 14:08	0°♄		morning max el	1874 Aug 13 19:45	2°♄06'28	18°44'31
morning set	1873 Sep 15 10:44	14°♄13'01		asc. node	1874 Aug 18 03:36	7°♄09'53	
	1873 Sep 23 22:59	0°♄		morning set	1874 Aug 30 05:15	28°♄16'31	
					1874 Aug 31 02:27	0°♄	
superior conj	1873 Sep 25 02:54	2°♄05'50	1°23'33	superior conj	1874 Sep 07 20:30	15°♄00'00	1°39'33
minimum elong	1873 Sep 25 06:58	2°♄24'05	1°23'09	minimum elong	1874 Sep 07 22:49	15°♄10'57	1°39'24
max. Earth dist.	1873 Oct 02 18:01	15°♄22'16	1.41436 AU	max. Earth dist.	1874 Sep 14 22:52	27°♄59'31	1.39420 AU
evening rise	1873 Oct 07 23:59	24°♄01'49			1874 Sep 16 02:18	0°♄	
desc. node	1873 Oct 08 15:44	25°♄05'14		evening rise	1874 Sep 18 23:17	4°♄57'08	
	1873 Oct 11 17:55	0°♄		desc. node	1874 Sep 25 12:45	15°♄44'30	
	1873 Nov 01 08:39	0°♄			1874 Oct 04 21:06	0°♄	
evening max el	1873 Nov 10 15:48	11°♄02'19	22°49'56	evening max el	1874 Oct 24 05:08	24°♄38'29	24°09'54
retrograde	1873 Nov 20 16:09	16°♄59'06			1874 Oct 31 01:49	0°♄	
evening set	1873 Nov 25 09:50	15°♄03'05		retrograde	1874 Nov 04 07:38	1°♄09'19	
asc. node	1873 Nov 27 05:47	13°♄15'20			1874 Nov 08 04:18	30°♄	
inferior conj	1873 Nov 30 18:32	8°♄41'14	1°11'18	evening set	1874 Nov 09 15:03	28°♄56'18	
minimum elong	1873 Nov 30 16:57	8°♄46'41	1°10'40	asc. node	1874 Nov 14 02:49	23°♄48'30	
min. Earth dist.	1873 Nov 30 12:48	9°♄01'01	0.67821 AU	min. Earth dist.	1874 Nov 14 09:04	23°♄27'33	0.67630 AU
morning rise	1873 Dec 05 23:57	2°♄31'25		inferior conj	1874 Nov 15 01:19	22°♄32'45	0°19'19
direct	1873 Dec 10 10:37	0°♄43'34		minimum elong	1874 Nov 15 00:51	22°♄34'19	0°19'08
morning max el	1873 Dec 19 10:25	6°♄00'08	21°45'31	morning rise	1874 Nov 20 10:38	16°♄28'04	
desc. node	1874 Jan 04 14:59	26°♄55'29		direct	1874 Nov 24 07:49	15°♄02'11	
	1874 Jan 06 17:33	0°♄		morning max el	1874 Dec 02 06:32	19°♄36'43	20°28'45
morning set	1874 Jan 20 15:37	21°♄20'32			1874 Dec 10 17:40	0°♄	
	1874 Jan 25 23:40	0°♄		desc. node	1874 Dec 22 12:02	17°♄07'35	
max. Earth dist.	1874 Jan 26 22:52	1°≈36'01	1.41590 AU	morning set	1874 Dec 30 15:22	29°♄34'16	
					1874 Dec 30 22:01	0°♄	
superior conj	1874 Feb 03 14:35	14°≈39'30	-2°04'09				

max. Earth dist.	1875 Jan 09 05:40	14°  43'34	1.43369 AU	desc. node	1875 Dec 09 09:04	7°  34'35	
				morning set	1875 Dec 09 14:26	7°  55'26	
superior conj	1875 Jan 15 12:50	25°  01'53	-2°00'39	max. Earth dist.	1875 Dec 22 19:40	28°  35'19	1.44592 AU
minimum elong	1875 Jan 15 09:03	24°  46'12	2°00'30		1875 Dec 23 17:03	0° 	
	1875 Jan 18 12:00	0° 					
evening rise	1875 Jan 27 21:35	16°  13'27		superior conj	1875 Dec 26 08:53	4°  13'52	-1°38'46
	1875 Feb 04 20:09	0° 		minimum elong	1875 Dec 26 00:31	3°  40'28	1°38'01
asc. node	1875 Feb 10 02:07	8°  12'51		evening rise	1876 Jan 09 14:15	27°  32'50	
evening max el	1875 Feb 14 06:01	13°  17'54	18°08'20		1876 Jan 11 02:44	0° 	
retrograde	1875 Feb 20 17:57	16°  14'39		asc. node	1876 Jan 27 23:11	25°  47'26	
evening set	1875 Feb 23 13:10	16°  02'55		evening max el	1876 Jan 28 18:29	26°  38'31	18°23'46
inferior conj	1875 Mar 01 20:53	10°  54'02	3°41'40		1876 Feb 02 20:22	0° 	
minimum elong	1875 Mar 01 21:42	10°  51'55	3°41'38	retrograde	1876 Feb 04 06:30	0°  11'02	
min. Earth dist.	1875 Mar 04 18:06	7°  56'27	0.62249 AU		1876 Feb 05 16:27	30° 	
morning rise	1875 Mar 08 05:01	4°  55'33		evening set	1876 Feb 07 06:54	29°  21'17	
direct	1875 Mar 15 03:21	2°  12'31		inferior conj	1876 Feb 13 05:01	23°  53'13	3°41'44
desc. node	1875 Mar 20 11:12	3°  42'20		minimum elong	1876 Feb 13 04:05	23°  55'55	3°41'41
morning max el	1875 Mar 29 04:33	10°  18'08	27°49'37	min. Earth dist.	1876 Feb 15 11:11	21°  17'47	0.64116 AU
	1875 Apr 13 13:42	0° 		morning rise	1876 Feb 19 00:37	17°  46'36	
	1875 Apr 30 14:40	0° 		direct	1876 Feb 25 21:44	14°  57'47	
morning set	1875 May 01 19:14	2°  24'01		desc. node	1876 Mar 06 08:16	19°  03'36	
max. Earth dist.	1875 May 07 11:09	14°  16'37	1.32568 AU	morning max el	1876 Mar 10 13:20	22°  50'30	27°30'58
					1876 Mar 16 21:45	0° 	
superior conj	1875 May 09 06:54	18°  13'19	0°02'26		1876 Apr 05 19:33	0° 	
minimum elong	1875 May 09 06:47	18°  12'41	0°02'23	morning set	1876 Apr 14 14:08	16°  12'23	
behind sun begin	1875 May 09 01:40	17°  44'55		max. Earth dist.	1876 Apr 19 13:07	26°  12'17	1.33338 AU
behind sun end	1875 May 09 11:54	18°  40'29			1876 Apr 21 06:14	0° 	
asc. node	1875 May 09 01:25	17°  43'34					
	1875 May 14 16:56	0° 		superior conj	1876 Apr 22 12:54	2°  42'45	-0°25'02
evening rise	1875 May 16 05:34	3°  15'41		minimum elong	1876 Apr 22 14:09	2°  49'23	0°24'46
	1875 May 30 16:45	0° 		asc. node	1876 Apr 24 22:28	7°  50'50	
evening max el	1875 Jun 09 22:17	12°  45'33	24°10'58	evening rise	1876 Apr 29 17:04	18°  02'51	
desc. node	1875 Jun 16 10:25	17°  42'02			1876 May 05 15:16	0° 	
retrograde	1875 Jun 23 18:07	19°  43'26		evening max el	1876 May 21 13:00	23°  14'41	22°34'49
evening set	1875 Jun 28 07:52	18°  56'59		desc. node	1876 Jun 02 07:28	29°  14'25	
min. Earth dist.	1875 Jul 04 09:07	15°  58'26	0.56527 AU	retrograde	1876 Jun 03 16:04	29°  14'53'37	
inferior conj	1875 Jul 06 22:38	14°  52'38	-4°41'43	evening set	1876 Jun 06 19:12	29°  12'40'3	
minimum elong	1875 Jul 06 18:00	14°  52'54	4°41'09	min. Earth dist.	1876 Jun 14 20:40	25°  15'30	0.55289 AU
morning rise	1875 Jul 15 06:49	10°  52'14'9		inferior conj	1876 Jun 16 01:50	25°  11'59	-3°39'26
direct	1875 Jul 17 23:12	10°  50'24'8		minimum elong	1876 Jun 15 17:58	25°  12'31'2	3°37'24
morning max el	1875 Jul 27 15:54	14°  53'25'0	19°41'57	morning rise	1876 Jun 24 18:56	21°  12'01'2	
asc. node	1875 Aug 05 00:40	25°  52'41'2		direct	1876 Jun 27 16:53	21°  12'00'44	
	1875 Aug 07 16:59	0° 		morning max el	1876 Jul 09 00:47	26°  16'23	21°00'08
morning set	1875 Aug 14 07:31	12°  43'35			1876 Jul 12 12:59	0° 	
				asc. node	1876 Jul 21 21:44	14°  51'6'28	
superior conj	1875 Aug 22 05:34	28°  40'53	1°45'38	morning set	1876 Jul 28 14:56	27°  52'6'16	
minimum elong	1875 Aug 22 06:00	28°  43'02	1°45'38		1876 Jul 29 20:38	0° 	
	1875 Aug 22 21:36	0° 					
max. Earth dist.	1875 Aug 28 03:12	10°  03'05	1.37404 AU	superior conj	1876 Aug 05 01:33	12°  54'55	1°43'42
evening rise	1875 Aug 31 22:03	16°  08'58'30		minimum elong	1876 Aug 05 00:29	12°  54'28	1°43'40
	1875 Sep 08 12:33	0° 		max. Earth dist.	1876 Aug 09 12:16	21°  53'43	1.35600 AU
desc. node	1875 Sep 12 09:45	6°  13'20		evening rise	1876 Aug 13 16:18	29°  55'54	
	1875 Sep 29 06:50	0° 			1876 Aug 13 17:10	0° 	
evening max el	1875 Oct 06 17:09	8°  17'40	25°24'54	desc. node	1876 Aug 29 06:47	26°  08'26'04	
retrograde	1875 Oct 18 18:43	15°  14'15			1876 Aug 31 15:54	0° 	
evening set	1875 Oct 24 16:32	12°  14'54'2		evening max el	1876 Sep 18 05:09	21°  55'56	26°27'31
min. Earth dist.	1875 Oct 29 02:35	7°  15'51'56	0.67106 AU	retrograde	1876 Oct 01 00:54	29°  08'23	
inferior conj	1875 Oct 30 05:39	6°  12'24'33	-0°36'22	evening set	1876 Oct 07 12:23	26°  08'28'23	
minimum elong	1875 Oct 30 06:35	6°  12'21'33	0°35'58	min. Earth dist.	1876 Oct 11 15:02	22°  10'59	0.66235 AU
asc. node	1875 Oct 31 23:53	4°  11'11'29		inferior conj	1876 Oct 13 05:41	20°  13'54	-1°34'17
morning rise	1875 Nov 04 20:51	0° 		minimum elong	1876 Oct 13 08:11	20°  13'06'20	1°33'15
	1875 Nov 05 16:00	30° 		asc. node	1876 Oct 17 20:57	15°  12'20'37	
direct	1875 Nov 08 06:17	29°  12'21'12		morning rise	1876 Oct 19 04:30	14°  12'27'31	
	1875 Nov 10 23:05	0°		direct	1876 Oct 22 04:18	13° 12'36'56	
morning max el	1875 Nov 15 10:32	3° 12'23'55	19°25'21	morning max el	1876 Oct 28 21:11	17° 12'18'31	18°37'25
greatest brilliancy	1875 Nov 29 01:04	21° 12'42'35	-0.7m		1876 Nov 07 09:53	0°	
	1875 Dec 04 11:22	0°		morning set	1876 Nov 18 11:22	17° 12'26'37	

desc. node	1876 Nov 25 06:05	28°♄12'06		morning max el	1877 Oct 12 11:59	1°♄14'21	18°06'04
	1876 Nov 26 09:25	0°♄		morning set	1877 Oct 30 13:28	28°♄24'18	
					1877 Oct 31 12:32	0°♄	
superior conj	1876 Dec 04 11:42	12°♄44'01 -0°59'09		desc. node	1877 Nov 12 03:06	18°♄55'55	
minimum elong	1876 Dec 04 04:22	12°♄15'17 0°58'15					
max. Earth dist.	1876 Dec 04 13:39	12°♄51'42 1.45120 AU		superior conj	1877 Nov 13 17:23	21°♄28'45 -0°10'43	
	1876 Dec 15 10:43	0°♄		minimum elong	1877 Nov 13 16:03	21°♄23'24 0°10'31	
evening rise	1876 Dec 20 07:40	7°♄44'41		behind sun begin	1877 Nov 13 07:46	20°♄50'25	
greatest brilliancy	1876 Dec 28 15:53	21°♄02'10 -0.8m		behind sun end	1877 Nov 14 00:19	21°♄56'21	
	1877 Jan 03 11:13	0°♄		max. Earth dist.	1877 Nov 17 08:20	27°♄13'09 1.44914 AU	
evening max el	1877 Jan 11 04:53	10°♄05'20 18°57'07			1877 Nov 19 02:45	0°♄	
asc. node	1877 Jan 13 20:14	12°♄23'54		evening rise	1877 Nov 30 03:23	17°♄10'25	
retrograde	1877 Jan 18 01:01	13°♄57'27			1877 Dec 08 11:10	0°♄	
evening set	1877 Jan 21 07:27	12°♄55'44		greatest brilliancy	1877 Dec 13 10:27	7°♄31'33 -0.7m	
inferior conj	1877 Jan 26 22:57	7°♄10'46 3°26'08		evening max el	1877 Dec 25 11:13	23°♄34'16 19°46'52	
minimum elong	1877 Jan 26 20:52	7°♄17'17 3°25'48		asc. node	1877 Dec 31 17:17	27°♄46'41	
min. Earth dist.	1877 Jan 28 13:45	5°♄09'34 0.65623 AU		retrograde	1878 Jan 01 22:19	27°♄54'47	
morning rise	1877 Feb 01 09:57	0°♄59'41		evening set	1878 Jan 05 12:16	26°♄39'43	
	1877 Feb 02 15:48	30°♄♄		inferior conj	1878 Jan 10 23:34	20°♄40'25 2°58'49	
direct	1877 Feb 07 23:01	28°♄08'36		minimum elong	1878 Jan 10 20:58	20°♄49'01 2°58'11	
	1877 Feb 13 20:33	0°♄		min. Earth dist.	1878 Jan 12 00:09	19°♄19'01 0.66731 AU	
morning max el	1877 Feb 20 23:18	5°♄48'22 26°40'55		morning rise	1878 Jan 16 05:26	14°♄27'23	
desc. node	1877 Feb 21 05:18	6°♄03'33		direct	1878 Jan 22 06:11	11°♄46'06	
	1877 Mar 11 13:41	0°♄		morning max el	1878 Feb 03 08:14	18°♄58'12 25°28'04	
morning set	1877 Mar 28 22:03	29°♄40'11		desc. node	1878 Feb 08 02:19	24°♄13'12	
	1877 Mar 29 02:13	0°♄			1878 Feb 12 17:02	0°♄	
max. Earth dist.	1877 Apr 02 04:23	7°♄58'00 1.34559 AU			1878 Mar 04 15:27	0°♄	
				morning set	1878 Mar 11 14:19	12°♄09'16	
superior conj	1877 Apr 06 13:04	16°♄50'04 -0°52'55		max. Earth dist.	1878 Mar 15 07:41	19°♄02'48 1.36228 AU	
minimum elong	1877 Apr 06 15:44	17°♄03'52 0°52'25			1878 Mar 20 23:11	0°♄	
asc. node	1877 Apr 11 19:31	27°♄51'32					
	1877 Apr 12 20:03	0°♄		superior conj	1878 Mar 21 04:37	0°♄27'02 -1°19'41	
evening rise	1877 Apr 14 02:27	2°♄38'21		minimum elong	1878 Mar 21 08:28	0°♄46'13 1°19'05	
	1877 Apr 29 20:17	0°♄		evening rise	1878 Mar 29 07:33	16°♄55'18	
evening max el	1877 May 03 11:19	4°♄01'39 21°05'18		asc. node	1878 Mar 29 16:34	17°♄40'57	
retrograde	1877 May 15 05:48	9°♄45'51			1878 Apr 05 01:16	0°♄	
evening set	1877 May 17 11:07	9°♄34'19		evening max el	1878 Apr 15 21:14	15°♄25'32 19°51'28	
desc. node	1877 May 20 04:30	8°♄51'07		retrograde	1878 Apr 25 21:58	20°♄16'02	
inferior conj	1877 May 26 19:45	5°♄35'49 -1°54'40		evening set	1878 Apr 27 22:37	20°♄05'03	
minimum elong	1877 May 26 14:24	5°♄43'22 1°52'47		inferior conj	1878 May 06 18:47	16°♄04'13 0°04'52	
min. Earth dist.	1877 May 27 09:02	5°♄17'02 0.54916 AU		minimum elong	1878 May 06 19:00	16°♄03'53 0°04'47	
morning rise	1877 Jun 04 17:43	1°♄34'01		transit middle	1878 May 06 19:00	16°♄03'53 0°04'47	
direct	1877 Jun 08 02:24	1°♄09'35		transit begin	1878 May 06 15:13	16°♄09'41	
morning max el	1877 Jun 20 23:02	7°♄17'41 22°34'56		transit end	1878 May 06 22:47	15°♄58'04	
	1877 Jul 06 21:27	0°♄		desc. node	1878 May 07 01:30	15°♄53'53	
asc. node	1877 Jul 08 18:46	3°♄37'07		min. Earth dist.	1878 May 08 22:53	14°♄44'30 0.55511 AU	
morning set	1877 Jul 13 01:23	12°♄18'34		morning rise	1878 May 15 13:06	11°♄34'54	
				direct	1878 May 19 17:48	10°♄55'59	
superior conj	1877 Jul 20 04:59	27°♄31'24 1°35'17		morning max el	1878 Jun 02 14:29	17°♄49'55 24°16'58	
minimum elong	1877 Jul 20 02:59	27°♄20'46 1°35'07			1878 Jun 12 14:03	0°♄	
	1877 Jul 21 09:06	0°♄		asc. node	1878 Jun 25 15:48	23°♄18'46	
max. Earth dist.	1877 Jul 23 06:02	3°♄54'47 1.34152 AU		morning set	1878 Jun 27 13:11	27°♄15'13	
evening rise	1877 Jul 28 01:25	13°♄37'06			1878 Jun 28 20:13	0°♄	
	1877 Aug 05 22:51	0°♄					
desc. node	1877 Aug 16 03:48	16°♄15'10		superior conj	1878 Jul 04 13:15	12°♄21'58 1°21'37	
	1877 Aug 26 14:35	0°♄		minimum elong	1878 Jul 04 10:51	12°♄08'58 1°21'18	
evening max el	1877 Aug 31 17:13	5°♄25'08 27°10'10		max. Earth dist.	1878 Jul 06 08:51	16°♄17'21 1.33107 AU	
retrograde	1877 Sep 14 01:39	12°♄43'43		evening rise	1878 Jul 11 21:19	27°♄50'22	
evening set	1877 Sep 21 00:09	9°♄59'46			1878 Jul 12 23:05	0°♄	
min. Earth dist.	1877 Sep 24 20:10	6°♄18'26 0.65012 AU			1878 Jul 30 04:14	0°♄	
inferior conj	1877 Sep 26 23:10	3°♄56'14 -2°32'28		desc. node	1878 Aug 03 00:49	5°♄30'38	
minimum elong	1877 Sep 27 03:12	3°♄44'58 2°31'00		evening max el	1878 Aug 14 04:04	18°♄34'15 27°26'01	
	1877 Sep 30 20:37	30°♄♄		retrograde	1878 Aug 27 20:16	25°♄51'55	
morning rise	1877 Oct 03 07:08	28°♄23'19		evening set	1878 Sep 04 00:49	23°♄14'38	
asc. node	1877 Oct 04 18:00	27°♄52'58		min. Earth dist.	1878 Sep 07 16:01	20°♄06'00 0.63442 AU	
direct	1877 Oct 05 23:44	27°♄44'44		inferior conj	1878 Sep 10 07:34	17°♄26'12 -3°27'59	
	1877 Oct 11 03:39	0°♄		minimum elong	1878 Sep 10 12:42	17°♄13'16 3°26'27	

morning rise	1878 Sep 17 01:49	12° \cap 10'01		inferior conj	1879 Aug 24 03:41	0° \cap 34'46	-4°16'12
direct	1878 Sep 19 13:52	11° \cap 39'51		minimum elong	1879 Aug 24 08:48	0° \cap 23'20	4°15'08
asc. node	1878 Sep 21 15:01	12° \cap 00'28			1879 Aug 24 19:20	30° \cap	
morning max el	1878 Sep 26 04:10	15° \cap 05'34	17°52'13	morning rise	1879 Aug 31 08:53	25° \cap 38'49	
	1878 Oct 06 13:56	0° \cap		direct	1879 Sep 02 19:07	25° \cap 14'09	
morning set	1878 Oct 12 17:11	10° \cap 36'38		asc. node	1879 Sep 08 12:02	27° \cap 35'19	
	1878 Oct 24 01:30	0° \cap		morning max el	1879 Sep 09 18:43	28° \cap 44'03	17°56'53
					1879 Sep 10 23:41	0° \cap	
superior conj	1878 Oct 24 20:28	1° \cap 18'36	0°34'29	morning set	1879 Sep 25 16:01	23° \cap 43'32	
minimum elong	1878 Oct 24 23:53	1° \cap 32'47	0°34'02		1879 Sep 29 02:35	0° \cap	
desc. node	1878 Oct 30 00:08	9° \cap 43'13					
max. Earth dist.	1878 Oct 31 01:24	11° \cap 24'44	1.44009 AU	superior conj	1879 Oct 06 02:43	12° \cap 28'29	1°09'09
evening rise	1878 Nov 09 11:55	26° \cap 13'57		minimum elong	1879 Oct 06 07:17	12° \cap 48'24	1°08'36
	1878 Nov 11 22:48	0° \cap		max. Earth dist.	1879 Oct 13 14:25	25° \cap 09'19	1.42506 AU
	1878 Dec 02 13:16	0° \cap		desc. node	1879 Oct 16 21:09	0° \cap 30'10	
evening max el	1878 Dec 08 12:17	7° \cap 04'36	20°50'30		1879 Oct 16 13:41	0° \cap	
retrograde	1878 Dec 16 20:02	12° \cap 00'04		evening rise	1879 Oct 20 01:58	5° \cap 36'30	
asc. node	1878 Dec 18 14:18	11° \cap 34'45			1879 Nov 05 06:38	0° \cap	
evening set	1878 Dec 20 19:23	10° \cap 30'00		evening max el	1879 Nov 21 07:45	20° \cap 36'06	22°04'30
inferior conj	1878 Dec 26 04:26	4° \cap 19'17	2°22'29	retrograde	1879 Nov 30 16:29	26° \cap 10'19	
minimum elong	1878 Dec 26 01:52	4° \cap 28'03	2°21'40	evening set	1879 Dec 05 03:04	24° \cap 23'49	
min. Earth dist.	1878 Dec 26 16:17	3° \cap 38'41	0.67446 AU	asc. node	1879 Dec 05 11:18	24° \cap 06'31	
	1878 Dec 29 12:06	30° \cap		inferior conj	1879 Dec 10 11:29	18° \cap 04'56	1°39'00
morning rise	1878 Dec 31 08:10	28° \cap 06'10		minimum elong	1879 Dec 10 09:26	18° \cap 12'02	1°38'13
direct	1879 Jan 05 18:20	25° \cap 43'00		min. Earth dist.	1879 Dec 10 11:52	18° \cap 03'37	0.67788 AU
	1879 Jan 14 07:55	0° \cap		morning rise	1879 Dec 15 15:39	11° \cap 53'34	
morning max el	1879 Jan 16 16:30	2° \cap 13'49	24°02'29	direct	1879 Dec 20 10:42	9° \cap 52'39	
desc. node	1879 Jan 25 23:21	13° \cap 12'42		morning max el	1879 Dec 30 02:56	15° \cap 35'48	22°34'13
	1879 Feb 06 19:20	0° \cap			1880 Jan 10 20:07	0° \cap	
morning set	1879 Feb 21 09:05	23° \cap 31'29		desc. node	1880 Jan 12 20:24	2° \cap 48'01	
max. Earth dist.	1879 Feb 25 03:30	0° \cap 08'11	1.38252 AU		1880 Jan 30 20:04	0° \cap	
	1879 Feb 25 01:40	0° \cap		morning set	1880 Feb 02 00:26	3° \cap 32'42	
				max. Earth dist.	1880 Feb 06 23:47	11° \cap 50'38	1.40405 AU
superior conj	1879 Mar 04 08:02	13° \cap 24'25	-1°42'57				
minimum elong	1879 Mar 04 12:17	13° \cap 44'39	1°42'30	superior conj	1880 Feb 14 18:50	25° \cap 30'51	-1°59'26
	1879 Mar 12 20:21	0° \cap		minimum elong	1880 Feb 14 21:51	25° \cap 44'31	1°59'17
evening rise	1879 Mar 13 05:52	0° \cap 46'46			1880 Feb 17 05:52	0° \cap	
asc. node	1879 Mar 16 13:36	7° \cap 14'02		evening rise	1880 Feb 24 18:21	14° \cap 05'17	
evening max el	1879 Mar 29 18:11	27° \cap 28'23	18°56'56	asc. node	1880 Mar 02 10:38	26° \cap 24'55	
	1879 Apr 01 23:06	0° \cap			1880 Mar 04 12:57	0° \cap	
retrograde	1879 Apr 07 04:57	1° \cap 34'27		evening max el	1880 Mar 11 23:29	10° \cap 03'48	18°22'30
evening set	1879 Apr 09 09:50	1° \cap 18'51		retrograde	1880 Mar 19 07:14	13° \cap 41'25	
	1879 Apr 12 19:42	30° \cap		evening set	1880 Mar 21 17:57	13° \cap 18'13	
inferior conj	1879 Apr 17 10:48	27° \cap 02'43	1°46'43	inferior conj	1880 Mar 29 00:09	8° \cap 41'48	2°55'34
minimum elong	1879 Apr 17 14:27	26° \cap 56'14	1°45'35	minimum elong	1880 Mar 29 03:52	8° \cap 34'04	2°54'47
min. Earth dist.	1879 Apr 20 14:42	24° \cap 49'15	0.56942 AU	min. Earth dist.	1880 Apr 01 10:40	5° \cap 51'58	0.58903 AU
desc. node	1879 Apr 23 22:32	22° \cap 47'49		morning rise	1880 Apr 05 11:09	3° \cap 09'20	
morning rise	1879 Apr 25 16:01	21° \cap 59'22		desc. node	1880 Apr 09 19:34	1° \cap 36'49	
direct	1879 Apr 30 22:04	20° \cap 53'39		direct	1880 Apr 11 15:43	1° \cap 27'50	
morning max el	1879 May 15 05:13	28° \cap 18'32	25°52'02	morning max el	1880 Apr 26 00:33	9° \cap 11'22	27°04'45
	1879 May 16 21:28	0° \cap			1880 May 11 21:30	0° \cap	
	1879 Jun 05 23:34	0° \cap		morning set	1880 May 26 10:10	26° \cap 58'00	
morning set	1879 Jun 12 00:39	12° \cap 10'12			1880 May 27 20:40	0° \cap	
asc. node	1879 Jun 12 12:50	13° \cap 14'37		asc. node	1880 May 29 09:54	3° \cap 19'37	
superior conj	1879 Jun 19 00:09	27° \cap 18'44	1°03'37	superior conj	1880 Jun 02 11:57	12° \cap 15'42	0°42'01
minimum elong	1879 Jun 18 21:52	27° \cap 06'11	1°03'13	minimum elong	1880 Jun 02 10:13	12° \cap 06'11	0°41'40
max. Earth dist.	1879 Jun 19 18:14	28° \cap 57'56	1.32461 AU	max. Earth dist.	1880 Jun 02 06:32	11° \cap 45'55	1.32197 AU
	1879 Jun 20 05:35	0° \cap		evening rise	1880 Jun 09 08:59	27° \cap 11'40	
evening rise	1879 Jun 26 00:42	12° \cap 24'41			1880 Jun 10 17:12	0° \cap	
	1879 Jul 05 02:40	0° \cap			1880 Jun 27 17:17	0° \cap	
desc. node	1879 Jul 20 21:51	23° \cap 57'35		desc. node	1880 Jul 06 18:51	11° \cap 15'56	
	1879 Jul 26 07:00	0° \cap		evening max el	1880 Jul 08 11:26	12° \cap 56'50	26°20'53
evening max el	1879 Jul 27 11:01	1° \cap 08'22	27°10'00	retrograde	1880 Jul 22 11:02	20° \cap 08'33	
retrograde	1879 Aug 10 07:43	8° \cap 22'44		evening set	1880 Jul 28 24:00	18° \cap 22'29	
evening set	1879 Aug 17 10:19	6° \cap 04'49		min. Earth dist.	1880 Aug 02 00:24	15° \cap 46'30	0.59518 AU
min. Earth dist.	1879 Aug 21 01:15	3° \cap 20'08	0.61570 AU	inferior conj	1880 Aug 05 07:57	13° \cap 12'35	-4°49'24

minimum elong	1880 Aug 05 11:01	13°♎06'38	4°49'06	inferior conj	1881 Jul 17 17:10	25°♊10'43	-4°55'50
morning rise	1880 Aug 13 00:07	8°♎39'27		minimum elong	1881 Jul 17 15:40	25°♊13'15	4°55'47
direct	1880 Aug 15 11:06	8°♎18'10		morning rise	1881 Jul 25 19:44	20°♊59'44	
morning max el	1880 Aug 23 04:33	12°♎01'51	18°21'11	direct	1881 Jul 28 09:29	20°♊40'23	
asc. node	1880 Aug 25 09:05	14°♎23'33		morning max el	1881 Aug 06 06:35	24°♊49'58	19°06'21
	1880 Sep 04 05:12	0°♎			1881 Aug 10 17:42	0°♎	
morning set	1880 Sep 08 04:32	7°♎29'25		asc. node	1881 Aug 12 06:10	2°♎10'22	
				morning set	1881 Aug 23 02:43	21°♎43'50	
					1881 Aug 27 06:41	0°♎	
superior conj	1880 Sep 17 09:02	24°♎49'18	1°31'40				
minimum elong	1880 Sep 17 12:26	25°♎04'53	1°31'22	superior conj	1881 Aug 31 09:53	8°♎05'31	1°43'13
	1880 Sep 20 05:34	0°♎		minimum elong	1881 Aug 31 11:22	8°♎12'42	1°43'09
max. Earth dist.	1880 Sep 24 21:42	8°♎11'39	1.40599 AU	max. Earth dist.	1881 Sep 07 01:18	20°♎31'05	1.38544 AU
evening rise	1880 Sep 29 11:20	15°♎52'45		evening rise	1881 Sep 10 20:57	27°♎17'04	
desc. node	1880 Oct 02 18:11	21°♎13'16			1881 Sep 12 10:48	0°♎	
	1880 Oct 08 08:38	0°♎		desc. node	1881 Sep 19 15:12	11°♎48'45	
	1880 Oct 30 02:45	0°♎			1881 Oct 01 20:56	0°♎	
evening max el	1880 Nov 02 22:36	4°♎09'29	23°24'01	evening max el	1881 Oct 16 11:01	17°♎46'55	24°42'48
retrograde	1880 Nov 13 10:12	10°♎21'45		retrograde	1881 Oct 28 00:08	24°♎30'42	
evening set	1880 Nov 18 09:40	8°♎18'10		evening set	1881 Nov 02 13:34	22°♎10'43	
asc. node	1880 Nov 21 08:21	5°♎10'04		min. Earth dist.	1881 Nov 07 04:03	16°♎56'31	0.67444 AU
inferior conj	1880 Nov 23 18:52	1°♎54'56	0°49'46	inferior conj	1881 Nov 08 00:52	15°♎47'22	-0°03'54
minimum elong	1880 Nov 23 17:43	1°♎58'52	0°49'18	minimum elong	1881 Nov 08 00:57	15°♎47'03	0°03'52
min. Earth dist.	1880 Nov 23 08:34	2°♎30'15	0.67781 AU	transit middle	1881 Nov 08 00:57	15°♎47'03	0°03'52
	1880 Nov 25 04:52	30°♎		transit begin	1881 Nov 07 22:17	15°♎55'57	
morning rise	1880 Nov 29 01:43	25°♎47'10		transit end	1881 Nov 08 03:38	15°♎38'10	
direct	1880 Dec 03 06:22	24°♎09'08		asc. node	1881 Nov 08 05:23	15°♎32'20	
morning max el	1880 Dec 11 18:55	29°♎06'46	21°11'27	morning rise	1881 Nov 13 12:27	9°♎45'34	
	1880 Dec 12 15:30	0°♎		direct	1881 Nov 17 04:18	8°♎28'29	
desc. node	1880 Dec 29 17:26	22°♎48'41		morning max el	1881 Nov 24 18:30	12°♎48'39	19°59'56
	1881 Jan 03 12:49	0°♎			1881 Dec 07 20:55	0°♎	
morning set	1881 Jan 11 11:31	12°♎15'10		desc. node	1881 Dec 16 14:29	13°♎07'50	
max. Earth dist.	1881 Jan 19 01:59	24°♎26'29	1.42398 AU	morning set	1881 Dec 21 07:43	20°♎22'43	
	1881 Jan 22 10:39	0°♎			1881 Dec 27 12:02	0°♎	
superior conj	1881 Jan 26 07:41	6°♎33'22	-2°04'42	max. Earth dist.	1882 Jan 01 11:39	7°♎53'12	1.43965 AU
minimum elong	1881 Jan 26 07:01	6°♎30'30	2°04'41				
evening rise	1881 Feb 06 17:12	26°♎41'39		superior conj	1882 Jan 06 18:34	16°♎24'53	-1°53'45
	1881 Feb 08 13:10	0°♎		minimum elong	1882 Jan 06 12:29	16°♎00'05	1°53'23
asc. node	1881 Feb 17 07:41	15°♎05'49			1882 Jan 14 22:56	0°♎	
evening max el	1881 Feb 23 09:53	23°♎02'35	18°07'55	evening rise	1882 Jan 19 22:06	8°♎28'00	
retrograde	1881 Mar 02 02:10	26°♎27'31			1882 Feb 01 22:15	0°♎	
evening set	1881 Mar 04 18:18	25°♎54'54		asc. node	1882 Feb 04 04:44	3°♎07'52	
inferior conj	1881 Mar 11 09:09	20°♎57'46	3°32'24	evening max el	1882 Feb 06 22:27	6°♎17'32	18°12'37
minimum elong	1881 Mar 11 11:08	20°♎52'59	3°32'11	retrograde	1882 Feb 13 09:26	9°♎43'32	
min. Earth dist.	1881 Mar 14 13:31	17°♎55'45	0.61049 AU	evening set	1882 Feb 16 06:44	9°♎00'21	
morning rise	1881 Mar 18 02:11	15°♎06'02		inferior conj	1882 Feb 22 10:00	3°♎43'22	3°43'54
direct	1881 Mar 24 20:50	12°♎49'21		minimum elong	1882 Feb 22 10:01	3°♎43'20	3°43'53
desc. node	1881 Mar 27 16:37	13°♎11'31		min. Earth dist.	1882 Feb 25 01:11	0°♎52'50	0.63087 AU
morning max el	1881 Apr 08 02:12	20°♎43'05	27°44'00		1882 Feb 25 21:52	30°♎	
	1881 Apr 16 02:40	0°♎		morning rise	1882 Feb 28 12:18	27°♎40'43	
	1881 May 04 19:44	0°♎		direct	1882 Mar 07 11:13	24°♎59'09	
morning set	1881 May 10 15:51	11°♎31'38		desc. node	1882 Mar 14 13:41	27°♎19'51	
asc. node	1881 May 16 06:58	23°♎28'37			1882 Mar 18 05:02	0°♎	
max. Earth dist.	1881 May 16 17:46	24°♎27'25	1.32312 AU	morning max el	1882 Mar 21 08:57	2°♎54'58	27°45'49
					1882 Apr 10 12:10	0°♎	
superior conj	1881 May 17 22:54	27°♎06'31	0°17'31	morning set	1882 Apr 24 15:27	25°♎43'51	
minimum elong	1881 May 17 22:06	27°♎02'09	0°17'21		1882 Apr 26 17:50	0°♎	
	1881 May 19 06:34	0°♎		max. Earth dist.	1882 Apr 30 00:01	6°♎49'24	1.32836 AU
evening rise	1881 May 24 20:00	12°♎03'30					
	1881 Jun 02 22:37	0°♎		superior conj	1882 May 02 07:17	11°♎45'29	-0°09'07
evening max el	1881 Jun 20 04:47	23°♎59'35	25°03'45	minimum elong	1882 May 02 07:43	11°♎47'52	0°09'01
desc. node	1881 Jun 23 15:52	26°♎57'53		behind sun begin	1882 May 02 03:22	11°♎24'22	
	1881 Jun 28 20:21	0°♎		behind sun end	1882 May 02 12:05	12°♎11'22	
retrograde	1881 Jul 04 04:35	1°♎06'06		asc. node	1882 May 03 04:02	13°♎37'33	
evening set	1881 Jul 09 14:16	29°♎59'02		evening rise	1882 May 09 07:50	26°♎53'55	
	1881 Jul 09 13:18	30°♎			1882 May 10 19:18	0°♎	
min. Earth dist.	1881 Jul 14 16:22	27°♎13'04	0.57514 AU		1882 May 28 14:41	0°♎	

evening max el	1882 Jun 01 18:37	4° \mathfrak{C} 32'56	23°30'10	retrograde	1883 May 27 02:39	21° \mathbb{I} 19'12	
desc. node	1882 Jun 10 12:54	10° \mathfrak{C} 28'10		desc. node	1883 May 28 09:56	21° \mathbb{I} 15'21	
retrograde	1882 Jun 15 09:41	11° \mathfrak{C} 21'58		evening set	1883 May 29 18:28	21° \mathbb{I} 03'25	
evening set	1882 Jun 19 07:37	10° \mathfrak{C} 48'20		min. Earth dist.	1883 Jun 07 16:35	17° \mathbb{I} 15'22	0.55012 AU
min. Earth dist.	1882 Jun 26 04:52	7° \mathfrak{C} 37'28	0.55900 AU	inferior conj	1883 Jun 08 04:01	16° \mathbb{I} 59'22	-2°59'03
inferior conj	1882 Jun 28 06:18	6° \mathfrak{C} 23'52	-4°21'23	minimum elong	1883 Jun 07 20:31	17° \mathbb{I} 09'53	2°56'45
minimum elong	1882 Jun 27 23:44	6° \mathfrak{C} 33'41	4°20'11	morning rise	1883 Jun 16 23:55	13° \mathbb{I} 05'44	
morning rise	1882 Jul 06 18:26	2° \mathfrak{C} 28'25		direct	1883 Jun 20 01:45	12° \mathbb{I} 44'46	
direct	1882 Jul 09 12:40	2° \mathfrak{C} 09'33		morning max el	1883 Jul 02 01:58	18° \mathbb{I} 22'39	21°38'52
morning max el	1882 Jul 19 22:01	6° \mathfrak{C} 58'20	20°12'51		1883 Jul 11 08:30	0° \mathfrak{C}	
asc. node	1882 Jul 30 03:15	20° \mathfrak{C} 41'54		asc. node	1883 Jul 17 00:18	9° \mathfrak{C} 47'24	
	1882 Aug 04 03:57	0° \mathfrak{Q}		morning set	1883 Jul 22 16:24	21° \mathfrak{C} 05'33	
morning set	1882 Aug 07 07:27	6° \mathfrak{Q} 17'57			1883 Jul 26 22:07	0° \mathfrak{Q}	
superior conj	1882 Aug 15 00:03	22° \mathfrak{Q} 01'36	1°45'41	superior conj	1883 Jul 29 23:33	6° \mathfrak{Q} 26'06	1°40'50
minimum elong	1882 Aug 14 23:47	22° \mathfrak{Q} 00'16	1°45'42	minimum elong	1883 Jul 29 22:01	6° \mathfrak{Q} 18'07	1°40'45
	1882 Aug 19 00:41	0° \mathfrak{P}		max. Earth dist.	1883 Aug 02 19:33	14° \mathfrak{Q} 19'03	1.34938 AU
max. Earth dist.	1882 Aug 20 06:46	2° \mathfrak{P} 24'59	1.36596 AU	evening rise	1883 Aug 07 05:43	23° \mathfrak{Q} 01'35	
evening rise	1882 Aug 24 04:35	9° \mathfrak{P} 43'55			1883 Aug 10 23:17	0° \mathfrak{P}	
	1882 Sep 05 02:37	0° \mathfrak{A}		desc. node	1883 Aug 24 09:14	22° \mathfrak{P} 15'06	
desc. node	1882 Sep 06 12:12	2° \mathfrak{A} 11'24			1883 Aug 29 18:42	0° \mathfrak{A}	
	1882 Sep 27 12:24	0° \mathfrak{M}		evening max el	1883 Sep 11 11:22	15° \mathfrak{A} 03'12	26°48'32
evening max el	1882 Sep 28 23:01	1° \mathfrak{M} 26'48	25°53'34	retrograde	1883 Sep 24 12:58	22° \mathfrak{A} 18'23	
retrograde	1882 Oct 11 09:14	8° \mathfrak{M} 31'32		evening set	1883 Oct 01 05:36	19° \mathfrak{A} 35'53	
evening set	1882 Oct 17 12:54	5° \mathfrak{M} 57'45		min. Earth dist.	1883 Oct 05 05:26	15° \mathfrak{A} 33'52	0.65766 AU
min. Earth dist.	1882 Oct 21 19:50	1° \mathfrak{M} 19'01	0.66778 AU	inferior conj	1883 Oct 07 01:09	13° \mathfrak{A} 25'45	-1°59'02
	1882 Oct 22 20:55	30° \mathfrak{R} \mathfrak{A}		minimum elong	1883 Oct 07 04:19	13° \mathfrak{A} 16'26	1°57'47
inferior conj	1882 Oct 23 03:37	29° \mathfrak{A} 38'47	-1°00'43	asc. node	1883 Oct 12 23:29	7° \mathfrak{A} 50'08	
minimum elong	1882 Oct 23 05:12	29° \mathfrak{A} 33'48	1°00'03	morning rise	1883 Oct 13 03:40	7° \mathfrak{A} 44'31	
asc. node	1882 Oct 26 02:27	26° \mathfrak{A} 08'45		direct	1883 Oct 16 00:14	6° \mathfrak{A} 59'19	
morning rise	1882 Oct 28 21:50	23° \mathfrak{A} 45'40		morning max el	1883 Oct 22 14:08	10° \mathfrak{A} 34'27	18°21'56
direct	1882 Nov 01 02:53	22° \mathfrak{A} 46'23			1883 Nov 05 05:47	0° \mathfrak{M}	
morning max el	1882 Nov 08 01:28	26° \mathfrak{A} 39'04	19°02'53	morning set	1883 Nov 10 23:24	9° \mathfrak{M} 16'35	
	1882 Nov 11 00:32	0° \mathfrak{M}		desc. node	1883 Nov 20 08:30	24° \mathfrak{M} 19'56	
morning set	1882 Nov 30 14:02	29° \mathfrak{M} 07'59			1883 Nov 23 22:21	0° \mathfrak{X}	
	1882 Dec 01 03:21	0° \mathfrak{X}		superior conj	1883 Nov 26 06:37	3° \mathfrak{X} 41'47	-0°38'55
desc. node	1882 Dec 03 11:30	3° \mathfrak{X} 39'33		minimum elong	1883 Nov 26 01:35	3° \mathfrak{X} 21'59	0°38'14
max. Earth dist.	1882 Dec 15 03:23	21° \mathfrak{X} 56'22	1.44912 AU	max. Earth dist.	1883 Nov 27 22:30	6° \mathfrak{X} 18'39	1.45134 AU
superior conj	1882 Dec 17 05:26	25° \mathfrak{X} 13'41	-1°23'47	evening rise	1883 Dec 12 12:28	29° \mathfrak{X} 10'19	
minimum elong	1882 Dec 16 20:37	24° \mathfrak{X} 38'55	1°22'52		1883 Dec 13 01:07	0° \mathfrak{Z}	
	1882 Dec 20 05:43	0° \mathfrak{Z}		greatest brilliancy	1883 Dec 23 04:20	15° \mathfrak{Z} 50'27	-0.8m
evening rise	1883 Jan 01 04:57	19° \mathfrak{Z} 17'11			1884 Jan 02 01:02	0° \mathfrak{A}	
	1883 Jan 07 18:11	0° \mathfrak{A}		evening max el	1884 Jan 04 19:16	3° \mathfrak{A} 09'29	19°16'24
evening max el	1883 Jan 21 10:22	19° \mathfrak{A} 41'32	18°35'53	asc. node	1884 Jan 08 22:47	6° \mathfrak{A} 26'11	
asc. node	1883 Jan 22 01:45	20° \mathfrak{A} 19'20		retrograde	1884 Jan 11 20:48	7° \mathfrak{A} 12'21	
retrograde	1883 Jan 28 00:48	23° \mathfrak{A} 20'46		evening set	1884 Jan 15 06:20	6° \mathfrak{A} 04'56	
evening set	1883 Jan 31 03:42	22° \mathfrak{A} 26'01		inferior conj	1884 Jan 20 19:47	0° \mathfrak{A} 13'25	3°15'46
inferior conj	1883 Feb 05 22:41	16° \mathfrak{A} 50'41	3°36'44	minimum elong	1884 Jan 20 17:24	0° \mathfrak{A} 21'03	3°15'18
minimum elong	1883 Feb 05 21:11	16° \mathfrak{A} 55'10	3°36'33		1884 Jan 20 23:57	30° \mathfrak{R} \mathfrak{Z}	
min. Earth dist.	1883 Feb 07 22:18	14° \mathfrak{A} 28'44	0.64814 AU	min. Earth dist.	1884 Jan 22 04:15	28° \mathfrak{Z} 29'07	0.66149 AU
morning rise	1883 Feb 11 14:13	10° \mathfrak{A} 42'03		morning rise	1884 Jan 26 04:13	24° \mathfrak{Z} 01'29	
direct	1883 Feb 18 08:46	7° \mathfrak{A} 50'25		direct	1884 Feb 01 12:27	21° \mathfrak{Z} 13'34	
desc. node	1883 Mar 01 10:44	13° \mathfrak{A} 26'46		morning max el	1884 Feb 14 03:53	28° \mathfrak{Z} 42'30	26°12'09
morning max el	1883 Mar 03 18:17	15° \mathfrak{A} 38'42	27°12'57		1884 Feb 15 09:51	0° \mathfrak{A}	
	1883 Mar 15 13:53	0° \mathfrak{H}		desc. node	1884 Feb 16 07:44	0° \mathfrak{A} 59'00	
	1883 Apr 03 05:55	0° \mathfrak{Y}			1884 Mar 08 08:56	0° \mathfrak{H}	
morning set	1883 Apr 08 06:08	9° \mathfrak{Y} 25'56		morning set	1884 Mar 21 07:58	22° \mathfrak{H} 25'25	
max. Earth dist.	1883 Apr 12 21:37	18° \mathfrak{Y} 42'15	1.33799 AU		1884 Mar 25 07:21	0° \mathfrak{Y}	
				max. Earth dist.	1884 Mar 25 07:57	0° \mathfrak{Y} 02'56	1.35222 AU
superior conj	1883 Apr 16 11:07	26° \mathfrak{Y} 06'40	-0°36'53	superior conj	1884 Mar 30 07:58	10° \mathfrak{Y} 01'49	-1°04'32
minimum elong	1883 Apr 16 12:59	26° \mathfrak{Y} 16'25	0°36'30	minimum elong	1884 Mar 30 11:11	10° \mathfrak{Y} 18'16	1°03'58
	1883 Apr 18 07:14	0° \mathfrak{B}		asc. node	1884 Apr 05 22:06	23° \mathfrak{Y} 38'54	
asc. node	1883 Apr 20 01:04	3° \mathfrak{B} 42'36		evening rise	1884 Apr 07 02:31	26° \mathfrak{Y} 05'29	
evening rise	1883 Apr 23 18:41	11° \mathfrak{B} 37'03			1884 Apr 09 00:33	0° \mathfrak{B}	
	1883 May 03 07:15	0° \mathbb{I}		evening max el	1884 Apr 25 14:56	26° \mathfrak{B} 07'36	20°31'36
evening max el	1883 May 14 11:59	15° \mathbb{I} 06'56	21°55'19				

	1884 Apr 30 19:56	0°♂			1885 Mar 17 03:03	0°♂	
retrograde	1884 May 06 15:43	1°♂28'53		evening rise	1885 Mar 22 05:06	10°♂12'42	
evening set	1884 May 08 17:34	1°♂18'17		asc. node	1885 Mar 23 19:08	13°♂22'00	
	1884 May 12 21:42	30°♂			1885 Apr 02 01:00	0°♂	
desc. node	1884 May 14 06:58	29°♂20'44		evening max el	1885 Apr 08 05:41	7°♂47'50	19°25'44
inferior conj	1884 May 17 22:13	27°♂20'27	-1°03'33	retrograde	1885 Apr 17 13:31	12°♂18'12	
minimum elong	1884 May 17 19:13	27°♂24'48	1°02'28	evening set	1885 Apr 19 15:11	12°♂05'51	
min. Earth dist.	1884 May 19 05:07	26°♂35'47	0.55054 AU	inferior conj	1885 Apr 28 03:28	7°♂59'17	0°51'39
morning rise	1884 May 26 19:57	23°♂09'06		minimum elong	1885 Apr 28 05:35	7°♂55'51	0°50'54
direct	1884 May 30 12:07	22°♂40'02		min. Earth dist.	1885 Apr 30 19:43	6°♂15'15	0.56033 AU
morning max el	1884 Jun 12 20:36	29°♂08'19	23°18'18	desc. node	1885 May 01 03:59	6°♂02'19	
	1884 Jun 13 17:59	0°♂		morning rise	1885 May 06 17:10	3°♂15'12	
asc. node	1884 Jul 02 21:20	29°♂17'28		direct	1885 May 11 08:10	2°♂26'34	
	1884 Jul 03 05:48	0°♂		morning max el	1885 May 25 11:10	9°♂35'46	24°59'17
morning set	1884 Jul 06 03:38	5°♂59'59			1885 Jun 09 17:34	0°♂	
				asc. node	1885 Jun 19 18:22	19°♂05'28	
superior conj	1884 Jul 13 05:18	21°♂08'51	1°30'05	morning set	1885 Jun 20 15:27	20°♂56'08	
minimum elong	1884 Jul 13 03:03	20°♂56'52	1°29'50		1885 Jun 24 20:32	0°♂	
max. Earth dist.	1884 Jul 15 17:30	26°♂29'05	1.33657 AU				
	1884 Jul 17 09:50	0°♂		superior conj	1885 Jun 27 14:54	6°♂02'25	1°14'28
evening rise	1884 Jul 20 19:50	6°♂56'54		minimum elong	1885 Jun 27 12:30	5°♂49'17	1°14'05
	1884 Aug 02 12:41	0°♂		max. Earth dist.	1885 Jun 28 23:21	8°♂58'53	1.32780 AU
desc. node	1884 Aug 10 06:16	11°♂51'03		evening rise	1885 Jul 04 19:14	21°♂19'25	
evening max el	1884 Aug 23 23:06	28°♂24'43	27°20'29		1885 Jul 09 04:00	0°♂	
	1884 Aug 25 16:53	0°♂			1885 Jul 27 12:59	0°♂	
retrograde	1884 Sep 06 10:58	5°♂43'05		desc. node	1885 Jul 28 03:18	0°♂47'31	
evening set	1884 Sep 13 13:02	3°♂00'19		evening max el	1885 Aug 06 08:19	11°♂18'52	27°23'14
	1884 Sep 16 20:30	30°♂		retrograde	1885 Aug 20 02:48	18°♂36'04	
min. Earth dist.	1884 Sep 17 06:38	29°♂33'52	0.64389 AU	evening set	1885 Aug 27 07:47	16°♂05'00	
inferior conj	1884 Sep 19 15:05	27°♂03'03	-2°56'35	min. Earth dist.	1885 Aug 30 21:53	13°♂08'17	0.62670 AU
minimum elong	1884 Sep 19 19:40	26°♂50'46	2°55'00	inferior conj	1885 Sep 02 18:36	10°♂23'59	-3°49'47
morning rise	1884 Sep 26 03:19	21°♂37'02		minimum elong	1885 Sep 02 23:56	10°♂11'14	3°48'23
direct	1884 Sep 28 17:44	21°♂02'22		morning rise	1885 Sep 09 17:31	5°♂16'24	
asc. node	1884 Sep 28 20:31	21°♂02'26		direct	1885 Sep 12 04:23	4°♂49'00	
morning max el	1884 Oct 05 05:54	24°♂28'59	17°58'04	asc. node	1885 Sep 15 17:33	5°♂47'52	
	1884 Oct 09 17:51	0°♂		morning max el	1885 Sep 18 21:49	8°♂15'28	17°51'59
morning set	1884 Oct 22 13:10	20°♂48'24			1885 Oct 03 03:33	0°♂	
	1884 Oct 28 00:11	0°♂		morning set	1885 Oct 05 01:43	3°♂25'17	
superior conj	1884 Nov 04 19:52	12°♂50'13	0°09'28	superior conj	1885 Oct 16 10:30	23°♂14'04	0°50'41
minimum elong	1884 Nov 04 20:59	12°♂54'40	0°09'19	minimum elong	1885 Oct 16 14:50	23°♂32'17	0°50'06
behind sun begin	1884 Nov 04 12:28	12°♂20'19			1885 Oct 20 11:53	0°♂	
behind sun end	1884 Nov 05 05:29	13°♂28'58		max. Earth dist.	1885 Oct 23 08:30	4°♂40'01	1.43422 AU
desc. node	1884 Nov 06 05:32	15°♂05'41		desc. node	1885 Oct 24 02:34	5°♂53'01	
max. Earth dist.	1884 Nov 09 17:20	20°♂39'53	1.44611 AU	evening rise	1885 Oct 31 10:24	17°♂28'08	
	1884 Nov 15 15:57	0°♂			1885 Nov 08 15:33	0°♂	
evening rise	1884 Nov 21 01:45	8°♂22'41			1885 Nov 30 18:21	0°♂	
	1884 Dec 05 08:29	0°♂		evening max el	1885 Nov 30 21:57	0°♂09'16	21°20'56
greatest brilliancy	1884 Dec 05 08:11	29°♂58'52	-0.6m	retrograde	1885 Dec 09 16:11	5°♂21'38	
evening max el	1884 Dec 17 23:25	16°♂39'06	20°12'19	asc. node	1885 Dec 12 16:49	4°♂30'49	
retrograde	1884 Dec 25 18:40	21°♂14'02		evening set	1885 Dec 13 19:59	3°♂44'51	
asc. node	1884 Dec 25 19:48	21°♂14'01			1885 Dec 17 08:11	30°♂	
evening set	1884 Dec 29 12:24	19°♂52'39		inferior conj	1885 Dec 19 04:33	27°♂30'02	2°04'50
inferior conj	1885 Jan 03 22:30	13°♂47'49	2°44'22	minimum elong	1885 Dec 19 02:10	27°♂38'19	2°04'01
minimum elong	1885 Jan 03 19:51	13°♂56'43	2°43'39	min. Earth dist.	1885 Dec 19 11:25	27°♂06'21	0.67630 AU
min. Earth dist.	1885 Jan 04 17:23	12°♂44'07	0.67081 AU	morning rise	1885 Dec 24 08:10	21°♂17'11	
morning rise	1885 Jan 09 03:08	7°♂34'29		direct	1885 Dec 29 11:48	19°♂03'12	
direct	1885 Jan 14 21:42	5°♂00'26		morning max el	1886 Jan 08 21:29	25°♂14'45	23°24'41
morning max el	1885 Jan 26 12:39	11°♂56'29	24°52'39		1886 Jan 13 04:43	0°♂	
desc. node	1885 Feb 02 04:45	19°♂32'07		desc. node	1886 Jan 20 01:47	8°♂48'12	
	1885 Feb 10 00:43	0°♂			1886 Feb 03 13:13	0°♂	
	1885 Mar 01 02:39	0°♂		morning set	1886 Feb 12 23:40	15°♂17'43	
morning set	1885 Mar 03 15:54	4°♂28'23		max. Earth dist.	1886 Feb 17 02:15	22°♂20'40	1.39169 AU
max. Earth dist.	1885 Mar 07 07:38	11°♂05'17	1.37060 AU		1886 Feb 21 09:28	0°♂	
superior conj	1885 Mar 13 18:49	23°♂23'00	-1°30'08	superior conj	1886 Feb 24 15:45	5°♂59'51	-1°51'01
minimum elong	1885 Mar 13 22:58	23°♂43'22	1°29'35	minimum elong	1886 Feb 24 19:45	6°♂18'26	1°50'42

evening rise	1886 Mar 05 23:39	23° Υ 50'49		evening rise	1887 Feb 17 06:50	6° Υ 52'14	
	1886 Mar 09 04:40	0° Υ		asc. node	1887 Feb 25 13:12	21° Υ 45'16	
asc. node	1886 Mar 10 16:10	2° Υ 46'14			1887 Mar 03 01:20	0° Υ	
evening max el	1886 Mar 22 06:35	20° Υ 05'31	18°39'49	evening max el	1887 Mar 05 14:33	2° Υ 52'31	18°13'54
retrograde	1886 Mar 30 04:30	23° Υ 57'21		retrograde	1887 Mar 12 14:09	6° Υ 22'24	
evening set	1886 Apr 01 11:45	23° Υ 38'55		evening set	1887 Mar 15 03:22	5° Υ 55'16	
inferior conj	1886 Apr 09 04:30	19° Υ 14'47	2°20'07	inferior conj	1887 Mar 22 02:35	1° Υ 10'09	3°14'44
minimum elong	1886 Apr 09 08:31	19° Υ 07'08	2°19'02	minimum elong	1887 Mar 22 05:41	1° Υ 03'18	3°14'13
min. Earth dist.	1886 Apr 12 13:21	16° Υ 42'46	0.57733 AU		1887 Mar 23 10:07	30° Υ	
morning rise	1886 Apr 17 02:11	13° Υ 57'39		min. Earth dist.	1887 Mar 25 11:51	28° Υ 12'00	0.59821 AU
desc. node	1886 Apr 18 00:59	13° Υ 33'15		morning rise	1887 Mar 29 05:43	25° Υ 28'35	
direct	1886 Apr 22 18:39	12° Υ 37'00		direct	1887 Apr 04 17:46	23° Υ 31'11	
morning max el	1886 May 07 03:26	20° Υ 11'59	26°26'27	desc. node	1887 Apr 04 22:02	23° Υ 31'16	
	1886 May 15 12:58	0° Υ			1887 Apr 17 15:41	0° Υ	
	1886 Jun 02 06:41	0° Υ		morning max el	1887 Apr 19 01:12	1° Υ 19'35	27°25'52
morning set	1886 Jun 05 02:19	5° Υ 48'44			1887 May 09 17:16	0° Υ	
asc. node	1886 Jun 06 15:27	9° Υ 05'51		morning set	1887 May 20 10:25	20° Υ 31'08	
				asc. node	1887 May 24 12:30	29° Υ 12'58	
superior conj	1886 Jun 12 02:27	21° Υ 00'17	0°54'51		1887 May 24 21:09	0° Υ	
minimum elong	1886 Jun 12 00:21	20° Υ 48'43	0°54'27	max. Earth dist.	1887 May 26 22:32	4° Υ 30'00	1.32199 AU
max. Earth dist.	1886 Jun 12 10:15	21° Υ 43'11	1.32296 AU				
	1886 Jun 16 05:16	0° Υ		superior conj	1887 May 27 14:06	5° Υ 55'28	0°31'56
evening rise	1886 Jun 19 01:01	6° Υ 00'12		minimum elong	1887 May 27 12:43	5° Υ 47'53	0°31'39
	1886 Jul 01 18:17	0° Υ		evening rise	1887 Jun 03 10:43	20° Υ 50'23	
desc. node	1886 Jul 15 00:19	18° Υ 48'23			1887 Jun 07 21:59	0° Υ	
evening max el	1886 Jul 19 12:47	23° Υ 34'47	26°53'08		1887 Jun 26 17:13	0° Υ	
	1886 Jul 29 01:30	0° Υ		evening max el	1887 Jul 01 10:20	5° Υ 03'55	25°51'05
retrograde	1886 Aug 02 11:23	0° Υ		desc. node	1887 Jul 01 21:21	5° Υ 29'50	
	1886 Aug 06 18:22	30° Υ		retrograde	1887 Jul 15 10:36	12° Υ 13'25	
evening set	1886 Aug 09 09:31	28° Υ 43'00		evening set	1887 Jul 21 13:27	10° Υ 44'04	
min. Earth dist.	1886 Aug 13 02:54	26° Υ 04'00	0.60697 AU	min. Earth dist.	1887 Jul 25 22:46	8° Υ 05'51	0.58640 AU
inferior conj	1886 Aug 16 08:29	23° Υ 21'01	-4°32'47	inferior conj	1887 Jul 29 05:02	5° Υ 43'18	-4°56'16
minimum elong	1886 Aug 16 13:02	23° Υ 11'25	4°32'03	minimum elong	1887 Jul 29 06:25	5° Υ 40'45	4°56'13
morning rise	1886 Aug 23 18:23	18° Υ 34'32		morning rise	1887 Aug 06 01:38	1° Υ 19'32	
direct	1886 Aug 26 04:28	18° Υ 11'40		direct	1887 Aug 08 13:38	0° Υ 59'09	
morning max el	1886 Sep 02 10:48	21° Υ 46'37	18°04'45	morning max el	1887 Aug 16 17:37	4° Υ 52'31	18°37'45
asc. node	1886 Sep 02 14:37	21° Υ 55'57		asc. node	1887 Aug 20 11:42	9° Υ 10'44	
	1886 Sep 08 18:42	0° Υ			1887 Sep 01 13:50	0° Υ	
morning set	1886 Sep 18 07:01	16° Υ 50'31		morning set	1887 Sep 02 00:06	0° Υ	
	1886 Sep 25 09:52	0° Υ					
superior conj	1886 Sep 28 03:39	4° Υ 55'53	1°20'08	superior conj	1887 Sep 10 18:31	17° Υ 41'41	1°37'47
minimum elong	1886 Sep 28 07:55	5° Υ 14'49	1°19'41	minimum elong	1887 Sep 10 21:07	17° Υ 53'55	1°37'37
max. Earth dist.	1886 Oct 05 18:39	18° Υ 06'09	1.41725 AU		1887 Sep 17 12:46	0° Υ	
desc. node	1886 Oct 10 23:38	26° Υ 38'58		max. Earth dist.	1887 Sep 18 00:12	0° Υ 50'14	1.39731 AU
evening rise	1886 Oct 11 07:31	27° Υ 10'42		evening rise	1887 Sep 22 03:10	7° Υ 55'33	
	1886 Oct 13 01:59	0° Υ		desc. node	1887 Sep 27 20:40	17° Υ 19'17	
	1886 Nov 02 09:24	0° Υ			1887 Oct 06 02:30	0° Υ	
evening max el	1886 Nov 13 15:21	13° Υ 41'40	22°38'03	evening max el	1887 Oct 27 05:03	27° Υ 17'04	23°58'07
retrograde	1886 Nov 23 11:37	19° Υ 32'32			1887 Oct 30 04:19	0° Υ	
evening set	1886 Nov 28 03:24	17° Υ 39'04		retrograde	1887 Nov 07 03:41	3° Υ 43'07	
asc. node	1886 Nov 29 13:51	16° Υ 17'35		evening set	1887 Nov 12 09:03	1° Υ 32'28	
inferior conj	1886 Dec 03 12:00	11° Υ 17'58	1°18'47		1887 Nov 13 23:07	30° Υ	
minimum elong	1886 Dec 03 10:17	11° Υ 23'53	1°18'06	asc. node	1887 Nov 16 10:54	26° Υ 57'07	
min. Earth dist.	1886 Dec 03 07:52	11° Υ 32'16	0.67826 AU	min. Earth dist.	1887 Nov 17 04:18	25° Υ 58'48	0.67681 AU
morning rise	1886 Dec 08 17:01	5° Υ 07'39		inferior conj	1887 Nov 17 19:00	25° Υ 08'57	0°27'31
direct	1886 Dec 13 05:52	3° Υ 16'19		minimum elong	1887 Nov 17 18:21	25° Υ 11'11	0°27'13
morning max el	1886 Dec 22 09:44	8° Υ 39'30	21°57'51	morning rise	1887 Nov 23 03:38	19° Υ 03'30	
desc. node	1887 Jan 06 22:50	28° Υ 35'19		direct	1887 Nov 27 02:43	17° Υ 34'30	
	1887 Jan 07 22:18	0° Υ		morning max el	1887 Dec 05 04:45	22° Υ 14'32	20°39'26
morning set	1887 Jan 24 02:27	24° Υ 43'03			1887 Dec 11 17:42	0° Υ	
	1887 Jan 27 08:34	0° Υ		desc. node	1887 Dec 24 19:54	18° Υ 44'40	
max. Earth dist.	1887 Jan 30 00:14	4° Υ 23'31	1.41294 AU		1888 Jan 01 05:26	0° Υ	
superior conj	1887 Feb 06 17:56	17° Υ 40'57	-2°03'21	morning set	1888 Jan 03 04:36	3° Υ 02'36	
minimum elong	1887 Feb 06 19:43	17° Υ 48'48	2°03'18	max. Earth dist.	1888 Jan 12 06:07	17° Υ 24'13	1.43133 AU
	1887 Feb 13 13:41	0° Υ		superior conj	1888 Jan 18 20:07	28° Υ 14'14	-2°02'18
				minimum elong	1888 Jan 18 17:12	28° Υ 02'00	2°02'13







































































































































	1888 Jan 19 21:18	0°♊		minimum elong	1888 Dec 28 11:51	7°♊03'34	1°42'41
evening rise	1888 Jan 30 22:36	19°♊08'42			1889 Jan 11 11:05	0°♊	
	1888 Feb 06 02:55	0°♋		evening rise	1889 Jan 11 18:32	0°♊31'19	
asc. node	1888 Feb 12 10:14	10°♋11'13		asc. node	1889 Jan 29 07:16	27°♊53'13	
evening max el	1888 Feb 17 02:18	15°♋59'45	18°07'35	evening max el	1889 Jan 30 14:49	29°♊18'46	18°20'17
retrograde	1888 Feb 23 15:02	19°♋23'25			1889 Jan 31 07:51	0°♋	
evening set	1888 Feb 26 09:27	18°♋46'17		retrograde	1889 Feb 06 02:22	2°♋49'22	
inferior conj	1888 Mar 03 18:53	13°♋40'15	3°39'56	evening set	1889 Feb 09 01:54	2°♋01'24	
minimum elong	1888 Mar 03 20:01	13°♋37'24	3°39'52		1889 Feb 11 19:49	30°♋	
min. Earth dist.	1888 Mar 06 18:03	10°♋40'56	0.61946 AU	inferior conj	1889 Feb 15 01:14	26°♋36'07	3°42'48
morning rise	1888 Mar 10 05:13	7°♋43'18		minimum elong	1889 Feb 15 00:32	26°♋38'07	3°42'46
direct	1888 Mar 17 02:51	5°♋14'43		min. Earth dist.	1889 Feb 17 09:46	23°♋56'16	0.63859 AU
desc. node	1888 Mar 21 19:04	6°♋15'40		morning rise	1889 Feb 20 22:27	20°♋30'15	
morning max el	1888 Mar 31 05:16	13°♋09'20	27°49'21	direct	1889 Feb 27 20:12	17°♋42'54	
	1888 Apr 13 16:21	0°♌		desc. node	1889 Mar 08 16:06	21°♋18'41	
	1888 May 01 02:35	0°♍		morning max el	1889 Mar 13 13:42	25°♋37'00	27°35'51
morning set	1888 May 03 13:50	4°♍57'02			1889 Mar 17 14:44	0°♋	
max. Earth dist.	1888 May 09 08:22	17°♍06'17	1.32492 AU		1889 Apr 07 04:14	0°♌	
asc. node	1888 May 10 09:33	19°♍22'41		morning set	1889 Apr 17 10:03	18°♌57'49	
				max. Earth dist.	1889 Apr 22 11:35	29°♌17'57	1.33196 AU
superior conj	1888 May 11 00:11	20°♍42'18	0°06'27		1889 Apr 22 19:36	0°♍	
minimum elong	1888 May 10 23:53	20°♍40'39	0°06'24				
behind sun begin	1888 May 10 19:10	20°♍14'54		superior conj	1889 Apr 25 06:52	5°♍14'17	-0°20'49
behind sun end	1888 May 11 04:37	21°♍06'25		minimum elong	1889 Apr 25 07:54	5°♍19'47	0°20'35
	1888 May 15 06:29	0°♎		asc. node	1889 Apr 27 06:35	9°♍30'22	
evening rise	1888 May 17 22:21	5°♎43'03		evening rise	1889 May 02 09:59	20°♍31'04	
	1888 May 30 19:09	0°♏			1889 May 07 01:20	0°♎	
evening max el	1888 Jun 12 01:31	15°♏51'11	24°24'57	evening max el	1889 May 24 15:39	26°♎19'56	22°48'56
desc. node	1888 Jun 17 18:21	20°♏20'33			1889 May 29 03:22	0°♏	
retrograde	1888 Jun 25 22:36	22°♏51'45		desc. node	1889 Jun 04 15:21	2°♏44'24	
evening set	1888 Jun 30 17:48	22°♏00'13		retrograde	1889 Jun 06 22:28	2°♏56'27	
min. Earth dist.	1888 Jul 06 12:28	19°♏05'24	0.56769 AU	evening set	1889 Jun 10 06:04	2°♏32'16	
inferior conj	1888 Jul 09 05:32	17°♏22'13	-4°46'57		1889 Jun 16 10:16	30°♎♎	
minimum elong	1888 Jul 09 01:42	17°♏28'21	4°46'33	min. Earth dist.	1889 Jun 18 00:10	29°♎07'10	0.55420 AU
morning rise	1888 Jul 17 12:18	13°♏19'10		inferior conj	1889 Jun 19 11:01	28°♎17'05	-3°52'01
direct	1888 Jul 20 04:01	13°♏00'04		minimum elong	1889 Jun 19 03:18	28°♎28'12	3°50'10
morning max el	1888 Jul 29 15:18	17°♏24'12	19°32'04	morning rise	1889 Jun 28 02:55	24°♎24'56	
asc. node	1888 Aug 06 08:46	27°♏17'47		direct	1889 Jun 30 23:41	24°♎05'47	
	1888 Aug 08 00:02	0°♐		morning max el	1889 Jul 12 01:53	29°♎14'16	20°47'22
morning set	1888 Aug 16 01:21	15°♐13'18			1889 Jul 12 20:59	0°♏	
	1888 Aug 23 10:06	0°♑		asc. node	1889 Jul 24 05:49	16°♏04'52	
				morning set	1889 Jul 31 08:07	29°♏53'56	
superior conj	1888 Aug 24 01:33	1°♑16'14	1°45'15		1889 Jul 31 09:18	0°♐	
minimum elong	1888 Aug 24 02:15	1°♑19'40	1°45'15				
max. Earth dist.	1888 Aug 30 04:09	12°♑56'57	1.37693 AU	superior conj	1889 Aug 07 20:09	15°♐26'06	1°44'26
evening rise	1888 Sep 02 22:34	19°♑46'59		minimum elong	1889 Aug 07 19:17	15°♐21'39	1°44'25
	1888 Sep 08 21:22	0°♒		max. Earth dist.	1889 Aug 12 12:01	24°♐47'17	1.35844 AU
desc. node	1888 Sep 13 17:41	7°♒49'47			1889 Aug 15 04:51	0°♑	
	1888 Sep 29 04:54	0°♓		evening rise	1889 Aug 16 14:13	2°♑36'59	
evening max el	1888 Oct 08 17:02	10°♓55'21	25°14'21	desc. node	1889 Aug 31 14:41	28°♑05'21	
retrograde	1888 Oct 20 15:30	17°♓49'03			1889 Sep 01 20:53	0°♒	
evening set	1888 Oct 26 11:12	15°♓22'29		evening max el	1889 Sep 21 04:57	24°♒34'09	26°19'18
min. Earth dist.	1888 Oct 30 22:20	10°♓23'30	0.67203 AU		1889 Sep 28 03:10	0°♓	
inferior conj	1888 Oct 31 23:48	9°♓00'37	-0°27'43	retrograde	1889 Oct 03 22:32	1°♓45'15	
minimum elong	1888 Nov 01 00:30	8°♓58'19	0°27'26		1889 Oct 09 04:01	30°♒♒	
asc. node	1888 Nov 02 07:58	7°♓17'31		evening set	1889 Oct 10 08:00	29°♒06'37	
morning rise	1888 Nov 06 14:01	3°♓02'27		min. Earth dist.	1889 Oct 14 11:43	24°♒43'38	0.66385 AU
direct	1888 Nov 10 01:01	1°♓53'25		inferior conj	1889 Oct 16 00:35	22°♒50'43	-1°25'26
morning max el	1888 Nov 17 07:39	6°♓00'17	19°33'50	minimum elong	1889 Oct 16 02:50	22°♒43'47	1°24'29
greatest brilliancy	1888 Nov 30 15:14	23°♓46'49	-0.7m	asc. node	1889 Oct 20 05:00	18°♒16'39	
	1888 Dec 04 17:51	0°♈		morning rise	1889 Oct 21 22:09	17°♒02'29	
desc. node	1888 Dec 10 16:55	9°♈09'32		direct	1889 Oct 24 23:13	16°♒09'49	
morning set	1888 Dec 12 02:02	11°♈17'29		morning max el	1889 Oct 31 17:25	19°♒54'07	18°43'29
	1888 Dec 24 01:25	0°♉			1889 Nov 08 13:33	0°♓	
max. Earth dist.	1888 Dec 24 19:04	1°♉09'52	1.44447 AU	morning set	1889 Nov 21 18:47	20°♓35'40	
				desc. node	1889 Nov 27 13:57	29°♓45'37	
superior conj	1888 Dec 28 19:47	7°♉35'22	-1°43'19		1889 Nov 27 17:36	0°♈	







































































































































max. Earth dist.	1889 Dec 07 12:19	15° ♁ 22'24	1.45089 AU	minimum elong	1890 Nov 17 01:36	24° ♁ 37'57	0°17'46
					1890 Nov 20 11:07	0° ♁	
superior conj	1889 Dec 08 00:03	16° ♁ 08'31	-1°06'00	max. Earth dist.	1890 Nov 20 07:07	29° ♁ 44'16	1.44997 AU
minimum elong	1889 Dec 07 16:08	15° ♁ 37'23	1°05'04	evening rise	1890 Dec 03 13:52	20° ♁ 28'00	
	1889 Dec 16 18:54	0° ♁			1890 Dec 09 17:35	0° ♁	
evening rise	1889 Dec 23 15:22	10° ♁ 56'00		greatest brilliancy	1890 Dec 16 06:11	9° ♁ 58'27	-0.7m
greatest brilliancy	1889 Dec 30 22:31	22° ♁ 38'32	-0.9m	evening max el	1890 Dec 28 08:43	26° ♁ 13'23	19°38'33
	1890 Jan 04 14:45	0° ♁			1891 Jan 02 09:42	0° ♁	
evening max el	1890 Jan 14 01:39	12° ♁ 44'33	18°51'05	asc. node	1891 Jan 03 01:19	0° ♁ 13'48	
asc. node	1890 Jan 16 04:17	14° ♁ 38'57		retrograde	1891 Jan 04 17:06	0° ♁ 28'56	
retrograde	1890 Jan 20 20:08	16° ♁ 33'03			1891 Jan 06 22:34	30° ♁	
evening set	1890 Jan 24 01:34	15° ♁ 33'15		evening set	1891 Jan 08 05:53	29° ♁ 15'53	
inferior conj	1890 Jan 29 17:54	9° ♁ 50'46	3°29'17	inferior conj	1891 Jan 13 17:41	23° ♁ 18'38	3°03'33
minimum elong	1890 Jan 29 15:57	9° ♁ 56'48	3°29'00	minimum elong	1891 Jan 13 15:07	23° ♁ 27'03	3°02'58
min. Earth dist.	1890 Jan 31 10:59	7° ♁ 43'52	0.65426 AU	min. Earth dist.	1891 Jan 14 20:17	21° ♁ 51'11	0.66593 AU
morning rise	1890 Feb 04 05:57	3° ♁ 40'12		morning rise	1891 Jan 19 00:07	17° ♁ 05'53	
direct	1890 Feb 10 20:37	0° ♁ 48'26		direct	1891 Jan 25 02:56	14° ♁ 22'31	
desc. node	1890 Feb 23 13:08	8° ♁ 05'14		morning max el	1891 Feb 06 08:34	21° ♁ 39'18	25°39'58
morning max el	1890 Feb 23 23:31	8° ♁ 31'06	26°49'59	desc. node	1891 Feb 10 10:10	26° ♁ 05'40	
	1890 Mar 12 18:24	0° ♁			1891 Feb 13 15:20	0° ♁	
	1890 Mar 30 13:33	0° ♁			1891 Mar 06 00:04	0° ♁	
morning set	1890 Mar 31 19:49	2° ♁ 23'33		morning set	1891 Mar 14 14:47	15° ♁ 01'14	
max. Earth dist.	1890 Apr 05 04:24	10° ♁ 55'44	1.34346 AU	max. Earth dist.	1891 Mar 18 09:27	22° ♁ 04'06	1.35950 AU
					1891 Mar 22 11:27	0° ♁	
superior conj	1890 Apr 09 08:02	19° ♁ 25'10	-0°48'43				
minimum elong	1890 Apr 09 10:30	19° ♁ 37'57	0°48'15	superior conj	1891 Mar 24 01:05	3° ♁ 07'32	-1°15'46
asc. node	1890 Apr 14 03:37	29° ♁ 32'03		minimum elong	1891 Mar 24 04:48	3° ♁ 26'08	1°15'12
	1890 Apr 14 08:55	0° ♁		evening rise	1891 Apr 01 01:41	19° ♁ 28'53	
evening rise	1890 Apr 16 19:47	5° ♁ 08'26		asc. node	1891 Apr 01 00:38	19° ♁ 23'36	
	1890 Apr 30 14:33	0° ♁			1891 Apr 06 09:40	0° ♁	
evening max el	1890 May 06 12:33	7° ♁ 02'53	21°17'48	evening max el	1891 Apr 18 20:46	18° ♁ 21'23	20°01'21
retrograde	1890 May 18 12:42	12° ♁ 54'38		retrograde	1891 Apr 29 03:37	23° ♁ 19'31	
evening set	1890 May 20 20:04	12° ♁ 42'23		evening set	1891 May 01 04:17	23° ♁ 08'47	
desc. node	1890 May 22 12:22	12° ♁ 18'57		desc. node	1891 May 09 09:23	19° ♁ 35'36	
inferior conj	1890 May 30 05:29	8° ♁ 43'04	-2°12'18	inferior conj	1891 May 10 02:57	19° ♁ 09'15	-0°12'46
minimum elong	1890 May 29 23:25	8° ♁ 51'35	2°10'15	minimum elong	1891 May 10 02:22	19° ♁ 10'08	0°12'34
min. Earth dist.	1890 May 30 12:28	8° ♁ 33'14	0.54909 AU	transit middle	1891 May 10 02:22	19° ♁ 10'08	0°12'34
morning rise	1890 Jun 08 03:08	4° ♁ 43'53		transit begin	1891 May 09 23:54	19° ♁ 13'50	
direct	1890 Jun 11 09:46	4° ♁ 20'34		transit end	1891 May 10 04:49	19° ♁ 06'25	
morning max el	1890 Jun 24 01:30	10° ♁ 21'11	22°20'05	min. Earth dist.	1891 May 12 01:58	17° ♁ 58'33	0.55364 AU
	1890 Jul 08 06:09	0° ♁		morning rise	1891 May 18 22:29	14° ♁ 45'02	
asc. node	1890 Jul 11 02:51	5° ♁ 21'43		direct	1891 May 22 23:48	14° ♁ 09'01	
morning set	1890 Jul 15 18:14	14° ♁ 44'59		morning max el	1891 Jun 05 17:36	20° ♁ 56'32	24°01'47
					1891 Jun 13 12:22	0° ♁	
superior conj	1890 Jul 22 22:38	29° ♁ 59'37	1°36'56	asc. node	1891 Jun 27 23:54	25° ♁ 00'49	
minimum elong	1890 Jul 22 20:44	29° ♁ 49'36	1°36'47	morning set	1891 Jun 30 05:57	29° ♁ 41'31	
	1890 Jul 22 22:43	0° ♁			1891 Jun 30 09:27	0° ♁	
max. Earth dist.	1890 Jul 26 04:22	6° ♁ 45'34	1.34341 AU				
evening rise	1890 Jul 30 21:23	16° ♁ 12'27		superior conj	1891 Jul 07 06:20	14° ♁ 48'36	1°24'01
	1890 Aug 07 08:11	0° ♁		minimum elong	1891 Jul 07 03:58	14° ♁ 35'46	1°23'42
desc. node	1890 Aug 18 11:42	17° ♁ 58'30		max. Earth dist.	1891 Jul 09 06:08	19° ♁ 05'40	1.33242 AU
	1890 Aug 27 08:43	0° ♁			1891 Jul 14 11:39	0° ♁	
evening max el	1890 Sep 03 17:09	8° ♁ 05'39	27°05'24	evening rise	1891 Jul 14 15:57	0° ♁ 21'43	
retrograde	1890 Sep 17 00:05	15° ♁ 23'39			1891 Jul 31 08:18	0° ♁	
evening set	1890 Sep 23 21:07	12° ♁ 39'55		desc. node	1891 Aug 05 08:44	7° ♁ 19'40	
min. Earth dist.	1890 Sep 27 18:07	8° ♁ 53'10	0.65217 AU	evening max el	1891 Aug 17 04:25	21° ♁ 18'36	27°25'31
inferior conj	1890 Sep 29 19:11	6° ♁ 34'28	-2°23'46	retrograde	1891 Aug 30 19:30	28° ♁ 36'10	
minimum elong	1890 Sep 29 23:00	6° ♁ 23'39	2°22'19	evening set	1891 Sep 06 23:38	25° ♁ 57'10	
morning rise	1890 Oct 06 01:41	0° ♁ 59'11		min. Earth dist.	1891 Sep 10 15:25	22° ♁ 44'04	0.63701 AU
asc. node	1890 Oct 07 02:02	0° ♁ 34'58		inferior conj	1891 Sep 13 05:07	20° ♁ 06'25	-3°19'57
direct	1890 Oct 08 19:13	0° ♁ 19'01		minimum elong	1891 Sep 13 10:08	19° ♁ 53'34	3°18'23
morning max el	1890 Oct 15 07:43	3° ♁ 49'53	18°09'37	morning rise	1891 Sep 19 21:47	14° ♁ 47'29	
	1890 Nov 01 21:00	0° ♁		direct	1891 Sep 22 10:23	14° ♁ 16'12	
morning set	1890 Nov 02 16:39	1° ♁ 21'02		asc. node	1891 Sep 23 23:05	17° ♁ 27'53	
desc. node	1890 Nov 14 10:58	20° ♁ 28'38		morning max el	1891 Sep 28 23:52	17° ♁ 41'50	17°53'08
					1891 Oct 07 20:42	0° ♁	
superior conj	1890 Nov 17 03:54	24° ♁ 47'06	-0°18'05	morning set	1891 Oct 15 16:56	13° ♁ 23'21	

	1891 Oct 25 10:59	0°♌			1892 Sep 10 01:14	0°♏		
				morning max el	1892 Sep 11 14:53	1°♏22'45	17°55'00	
superior conj	1891 Oct 28 03:05	4°♌25'08 0°28'15		morning set	1892 Sep 27 13:19	26°♏23'04		
minimum elong	1891 Oct 28 06:01	4°♌37'13 0°27'50			1892 Sep 29 13:08	0°♐		
desc. node	1891 Nov 01 08:01	11°♌15'30						
max. Earth dist.	1891 Nov 03 00:55	13°♌59'26 1.44188 AU		superior conj	1892 Oct 08 05:23	15°♐23'30 1°04'41		
evening rise	1891 Nov 12 23:07	29°♌32'29		minimum elong	1892 Oct 08 09:59	15°♐43'19 1°04'07		
	1891 Nov 13 06:16	0°♑		max. Earth dist.	1892 Oct 15 14:39	27°♐49'02 1.42757 AU		
	1891 Dec 03 12:54	0°♑			1892 Oct 16 22:44	0°♑		
evening max el	1891 Dec 11 10:37	9°♑43'36 20°40'16		desc. node	1892 Oct 18 05:05	2°♑02'51		
retrograde	1891 Dec 19 14:55	14°♑33'27		evening rise	1892 Oct 22 11:17	8°♑49'28		
asc. node	1891 Dec 20 22:21	14°♑23'51			1892 Nov 05 11:18	0°♒		
evening set	1891 Dec 23 12:48	13°♑05'35		evening max el	1892 Nov 23 06:51	23°♒14'48 21°52'58		
inferior conj	1891 Dec 28 22:03	6°♑56'17 2°28'29		retrograde	1892 Dec 02 11:44	28°♒43'27		
minimum elong	1891 Dec 28 19:28	7°♑05'08 2°27'41		evening set	1892 Dec 06 20:32	26°♒59'26		
min. Earth dist.	1891 Dec 29 11:40	6°♑09'50 0.67365 AU		asc. node	1892 Dec 06 19:23	27°♒01'43		
morning rise	1892 Jan 03 01:57	0°♑43'11		inferior conj	1892 Dec 12 04:55	20°♒41'24 1°46'01		
	1892 Jan 03 22:50	30°♒♑		minimum elong	1892 Dec 12 02:46	20°♒48'52 1°45'13		
direct	1892 Jan 08 14:20	28°♒17'05		min. Earth dist.	1892 Dec 12 06:55	20°♒34'29 0.67758 AU		
	1892 Jan 13 19:05	0°♑		morning rise	1892 Dec 17 08:52	14°♒29'36		
morning max el	1892 Jan 19 16:53	4°♑54'29 24°15'39		direct	1892 Dec 22 06:05	12°♒25'22		
desc. node	1892 Jan 28 07:13	14°♑58'40		morning max el	1893 Jan 01 02:52	18°♒15'54 22°47'12		
	1892 Feb 08 00:54	0°♒			1893 Jan 10 21:26	0°♑		
morning set	1892 Feb 24 13:08	26°♒34'14		desc. node	1893 Jan 14 04:17	4°♑29'27		
	1892 Feb 26 12:04	0°♒			1893 Jan 31 04:17	0°♒		
max. Earth dist.	1892 Feb 28 06:08	3°♒07'48 1.37936 AU		morning set	1893 Feb 04 08:54	6°♒48'21		
				max. Earth dist.	1893 Feb 09 01:53	14°♒42'57 1.40089 AU		
superior conj	1892 Mar 06 06:35	16°♒11'16 -1°39'47						
minimum elong	1892 Mar 06 10:51	16°♒31'46 1°39'18		superior conj	1893 Feb 16 20:11	28°♒25'57 -1°57'34		
	1892 Mar 13 07:51	0°♓		minimum elong	1893 Feb 16 23:32	28°♒41'14 1°57'22		
evening rise	1892 Mar 15 01:12	3°♓24'37			1893 Feb 17 16:45	0°♒		
asc. node	1892 Mar 17 21:41	8°♓59'24		evening rise	1893 Feb 26 15:25	16°♒48'35		
	1892 Mar 31 08:47	0°♓		asc. node	1893 Mar 04 18:44	28°♒14'00		
evening max el	1892 Mar 31 16:10	0°♓18'11 19°03'47			1893 Mar 05 18:46	0°♓		
retrograde	1892 Apr 09 08:04	4°♓30'11		evening max el	1893 Mar 14 20:23	12°♓48'51 18°26'18		
evening set	1892 Apr 11 12:02	4°♓15'31		retrograde	1893 Mar 22 07:30	16°♓29'46		
inferior conj	1892 Apr 19 15:57	0°♓01'56 1°33'14		evening set	1893 Mar 24 17:15	16°♓07'55		
minimum elong	1892 Apr 19 19:19	29°♓56'05 1°32'09		inferior conj	1893 Apr 01 02:06	11°♓34'42 2°47'20		
	1892 Apr 19 17:04	30°♓♓		minimum elong	1893 Apr 01 05:58	11°♓26'49 2°46'26		
min. Earth dist.	1892 Apr 22 17:18	27°♓55'47 0.56684 AU		min. Earth dist.	1893 Apr 04 12:37	8°♓48'37 0.58591 AU		
desc. node	1892 Apr 25 06:25	26°♓21'34		morning rise	1893 Apr 08 15:52	6°♓05'43		
morning rise	1892 Apr 27 23:35	25°♓03'34		desc. node	1893 Apr 12 03:26	4°♓47'14		
direct	1892 May 03 01:43	24°♓02'45		direct	1893 Apr 14 17:28	4°♓29'43		
	1892 May 15 19:45	0°♓		morning max el	1893 Apr 29 02:37	12°♓11'32 26°55'54		
morning max el	1892 May 17 08:07	1°♓23'47 25°38'59			1893 May 13 01:20	0°♓		
	1892 Jun 06 09:18	0°♐		morning set	1893 May 29 03:31	29°♓26'11		
morning set	1892 Jun 13 17:36	14°♐37'08			1893 May 29 09:58	0°♐		
asc. node	1892 Jun 13 20:58	14°♐54'52		asc. node	1893 May 31 18:02	4°♐58'36		
superior conj	1892 Jun 20 17:00	29°♐44'45 1°06'36		superior conj	1893 Jun 05 04:46	14°♐41'56 0°45'29		
minimum elong	1892 Jun 20 14:40	29°♐31'57 1°06'12		minimum elong	1893 Jun 05 02:56	14°♐31'47 0°45'08		
	1892 Jun 20 19:47	0°♑		max. Earth dist.	1893 Jun 05 02:48	14°♐31'05 1.32206 AU		
max. Earth dist.	1892 Jun 21 14:49	1°♑44'09 1.32534 AU		evening rise	1893 Jun 12 02:05	29°♐38'31		
evening rise	1892 Jun 27 18:24	14°♑53'16			1893 Jun 12 06:10	0°♑		
	1892 Jul 05 12:05	0°♒			1893 Jun 28 18:24	0°♒		
desc. node	1892 Jul 22 05:46	25°♒54'55		desc. node	1893 Jul 09 02:46	13°♒25'15		
	1892 Jul 25 16:07	0°♓		evening max el	1893 Jul 11 13:27	15°♒53'44 26°30'13		
evening max el	1892 Jul 29 12:02	3°♓58'15 27°14'25		retrograde	1893 Jul 25 12:56	23°♒06'20		
retrograde	1892 Aug 12 08:03	11°♓13'11		evening set	1893 Aug 01 04:43	21°♒14'47		
evening set	1892 Aug 19 11:42	8°♓51'22		min. Earth dist.	1893 Aug 05 02:43	18°♒38'42 0.59822 AU		
min. Earth dist.	1892 Aug 23 02:10	6°♓04'05 0.61866 AU		inferior conj	1893 Aug 08 10:10	16°♒01'40 -4°45'50		
inferior conj	1892 Aug 26 03:17	3°♓18'29 -4°09'41		minimum elong	1893 Aug 08 13:42	15°♒54'38 4°45'27		
minimum elong	1892 Aug 26 08:31	3°♓06'35 4°08'31		morning rise	1893 Aug 16 00:45	11°♒25'11		
	1892 Aug 30 03:01	30°♒♒		direct	1893 Aug 18 11:23	11°♒03'35		
morning rise	1892 Sep 02 06:52	28°♒19'30		morning max el	1893 Aug 26 01:42	14°♒44'40 18°16'16		
direct	1892 Sep 04 17:12	27°♒54'10		asc. node	1893 Aug 27 17:14	16°♒28'47		
asc. node	1892 Sep 09 20:09	29°♒50'19			1893 Sep 05 14:14	0°♓		

morning set	1893 Sep 11 00:06	10° \mathbb{M} 04'04		asc. node	1894 Aug 14 14:18	4° \mathcal{O} 08'07	
				morning set	1894 Aug 25 21:05	24° \mathcal{O} 15'20	
superior conj	1893 Sep 20 08:29	27° \mathbb{M} 34'57	1°28'59		1894 Aug 28 18:53	0° \mathbb{M}	
minimum elong	1893 Sep 20 12:09	27° \mathbb{M} 51'34	1°28'40				
	1893 Sep 21 16:32	0° \mathcal{O}		superior conj	1894 Sep 03 06:56	10° \mathbb{M} 44'15	1°42'04
max. Earth dist.	1893 Sep 27 22:32	10° \mathcal{O} 57'24	1.40895 AU	minimum elong	1894 Sep 03 08:43	10° \mathbb{M} 52'48	1°41'59
evening rise	1893 Oct 02 17:14	18° \mathcal{O} 56'25		max. Earth dist.	1894 Sep 10 02:26	23° \mathbb{M} 23'04	1.38852 AU
desc. node	1893 Oct 05 02:06	22° \mathcal{O} 46'51		evening rise	1894 Sep 13 23:20	0° \mathcal{O} 11'18	
	1893 Oct 09 16:00	0° \mathbb{M}			1894 Sep 13 20:43	0° \mathcal{O}	
	1893 Oct 30 21:51	0° \mathcal{O}		desc. node	1894 Sep 21 23:07	13° \mathcal{O} 24'07	
evening max el	1893 Nov 05 22:15	6° \mathcal{O} 47'44	23°12'05		1894 Oct 03 00:17	0° \mathbb{M}	
retrograde	1893 Nov 16 06:00	12° \mathcal{O} 54'54		evening max el	1894 Oct 19 10:57	20° \mathbb{M} 24'58	24°31'24
evening set	1893 Nov 21 03:24	10° \mathcal{O} 53'57		retrograde	1894 Oct 30 20:29	27° \mathbb{M} 04'27	
asc. node	1893 Nov 23 16:26	8° \mathcal{O} 15'39		evening set	1894 Nov 05 07:46	24° \mathbb{M} 46'57	
min. Earth dist.	1893 Nov 26 03:40	5° \mathcal{O} 01'03	0.67802 AU	min. Earth dist.	1894 Nov 09 23:30	19° \mathbb{M} 27'32	0.67520 AU
inferior conj	1893 Nov 26 12:23	4° \mathcal{O} 31'03	0°57'35	inferior conj	1894 Nov 10 18:42	18° \mathbb{M} 23'23	0°04'30
minimum elong	1893 Nov 26 11:04	4° \mathcal{O} 35'32	0°57'02	minimum elong	1894 Nov 10 18:35	18° \mathbb{M} 23'46	0°04'26
	1893 Nov 30 01:29	30° \mathcal{R} \mathbb{M}		transit middle	1894 Nov 10 18:35	18° \mathbb{M} 23'46	0°04'26
morning rise	1893 Dec 01 18:41	28° \mathbb{M} 22'30		transit begin	1894 Nov 10 15:56	18° \mathbb{M} 32'35	
direct	1893 Dec 06 01:23	26° \mathbb{M} 41'05		transit end	1894 Nov 10 21:13	18° \mathbb{M} 14'56	
	1893 Dec 12 21:00	0° \mathcal{O}		asc. node	1894 Nov 10 13:29	18° \mathbb{M} 40'50	
morning max el	1893 Dec 14 17:49	1° \mathcal{O} 45'20	21°23'07	morning rise	1894 Nov 16 05:27	12° \mathbb{M} 20'26	
desc. node	1894 Jan 01 01:19	24° \mathcal{O} 26'54		direct	1894 Nov 19 23:07	11° \mathbb{M} 00'19	
	1894 Jan 04 19:08	0° \mathcal{O}		morning max el	1894 Nov 27 16:08	15° \mathbb{M} 25'18	20°09'37
morning set	1894 Jan 14 23:47	15° \mathcal{O} 41'08			1894 Dec 09 00:50	0° \mathcal{O}	
max. Earth dist.	1894 Jan 22 02:45	27° \mathcal{O} 09'46	1.42124 AU	desc. node	1894 Dec 18 22:21	14° \mathcal{O} 43'41	
	1894 Jan 23 19:55	0° \approx		morning set	1894 Dec 24 20:34	23° \mathcal{O} 48'49	
					1894 Dec 28 20:04	0° \mathcal{O}	
superior conj	1894 Jan 29 12:37	9° \approx 38'53	-2°04'51	max. Earth dist.	1895 Jan 04 11:13	10° \mathcal{O} 29'15	1.43771 AU
minimum elong	1894 Jan 29 12:41	9° \approx 39'08	2°04'50				
evening rise	1894 Feb 09 16:33	29° \approx 31'49		superior conj	1895 Jan 10 03:25	19° \mathcal{O} 40'58	-1°56'37
	1894 Feb 09 22:45	0° \mathcal{H}		minimum elong	1895 Jan 09 22:07	19° \mathcal{O} 19'14	1°56'20
asc. node	1894 Feb 19 15:46	17° \mathcal{H} 00'06			1895 Jan 16 08:07	0° \approx	
evening max el	1894 Feb 26 06:15	25° \mathcal{H} 45'04	18°08'50	evening rise	1895 Jan 23 00:19	11° \approx 25'48	
retrograde	1894 Mar 05 00:07	29° \mathcal{H} 10'48			1895 Feb 03 00:06	0° \mathcal{H}	
evening set	1894 Mar 07 15:29	28° \mathcal{H} 39'40		asc. node	1895 Feb 06 12:47	5° \mathcal{H} 08'49	
inferior conj	1894 Mar 14 08:23	23° \mathcal{H} 45'45	3°28'36	evening max el	1895 Feb 09 18:41	8° \mathcal{H} 58'22	18°10'46
minimum elong	1894 Mar 14 10:41	23° \mathcal{H} 40'21	3°28'18	retrograde	1895 Feb 16 05:47	12° \mathcal{H} 23'14	
min. Earth dist.	1894 Mar 17 14:21	20° \mathcal{H} 43'47	0.60733 AU	evening set	1895 Feb 19 02:22	11° \mathcal{H} 41'37	
morning rise	1894 Mar 21 03:56	17° \mathcal{H} 56'19		inferior conj	1895 Feb 25 07:07	6° \mathcal{H} 27'29	3°43'26
direct	1894 Mar 27 21:14	15° \mathcal{H} 44'12		minimum elong	1895 Feb 25 07:24	6° \mathcal{H} 26'42	3°43'26
desc. node	1894 Mar 30 00:28	15° \mathcal{H} 56'51		min. Earth dist.	1895 Feb 28 00:29	3° \mathcal{H} 34'04	0.62800 AU
morning max el	1894 Apr 11 03:17	23° \mathcal{H} 37'06	27°40'30	morning rise	1895 Mar 03 11:23	0° \mathcal{H} 26'14	
	1894 Apr 16 20:54	0° \mathcal{Y}			1895 Mar 04 01:47	30° \mathcal{R} \approx	
	1894 May 06 05:57	0° \mathcal{O}		direct	1895 Mar 10 10:20	27° \approx 47'32	
morning set	1894 May 13 09:54	14° \mathcal{O} 02'35		desc. node	1895 Mar 16 21:30	29° \approx 44'17	
asc. node	1894 May 18 15:05	25° \mathcal{O} 07'27			1895 Mar 17 08:17	0° \mathcal{H}	
max. Earth dist.	1894 May 19 14:22	27° \mathcal{O} 14'16	1.32264 AU	morning max el	1895 Mar 24 09:16	5° \mathcal{H} 43'11	27°47'53
					1895 Apr 11 18:02	0° \mathcal{Y}	
superior conj	1894 May 20 15:59	29° \mathcal{O} 34'24	0°21'24	morning set	1895 Apr 27 10:32	28° \mathcal{Y} 18'34	
minimum elong	1894 May 20 15:01	29° \mathcal{O} 29'09	0°21'12		1895 Apr 28 06:33	0° \mathcal{O}	
	1894 May 20 20:39	0° \mathbb{I}		max. Earth dist.	1895 May 02 21:36	9° \mathcal{O} 40'16	1.32731 AU
evening rise	1894 May 27 12:49	14° \mathbb{I} 30'24					
	1894 Jun 04 07:10	0° \mathcal{O}		superior conj	1895 May 05 00:50	14° \mathcal{O} 15'45	-0°04'58
evening max el	1894 Jun 23 07:53	27° \mathcal{O} 03'35	25°16'46	minimum elong	1895 May 05 01:04	14° \mathcal{O} 17'02	0°04'55
desc. node	1894 Jun 25 23:45	29° \mathcal{O} 24'21		behind sun begin	1895 May 04 20:05	13° \mathcal{O} 50'04	
	1894 Jun 26 18:01	0° \mathcal{O}		behind sun end	1895 May 05 06:03	14° \mathcal{O} 44'01	
retrograde	1894 Jul 07 08:10	4° \mathcal{O} 11'18		asc. node	1895 May 05 12:06	15° \mathcal{O} 16'45	
evening set	1894 Jul 12 22:35	2° \mathcal{O} 58'32		evening rise	1895 May 12 00:38	29° \mathcal{O} 21'45	
min. Earth dist.	1894 Jul 17 19:44	0° \mathcal{O} 15'04	0.57792 AU		1895 May 12 07:52	0° \mathbb{I}	
	1894 Jul 18 04:46	30° \mathcal{R} \mathcal{O}			1895 May 29 07:12	0° \mathcal{O}	
inferior conj	1894 Jul 20 22:25	28° \mathcal{O} 06'54	-4°57'17	evening max el	1895 Jun 04 21:54	7° \mathcal{O} 39'52	23°44'35
minimum elong	1894 Jul 20 21:44	28° \mathcal{O} 08'05	4°57'16	desc. node	1895 Jun 12 20:46	13° \mathcal{O} 17'07	
morning rise	1894 Jul 28 23:27	23° \mathcal{O} 52'40		retrograde	1895 Jun 18 14:55	14° \mathcal{O} 32'17	
direct	1894 Jul 31 12:36	23° \mathcal{O} 33'08		evening set	1895 Jun 22 18:22	13° \mathcal{O} 54'32	
morning max el	1894 Aug 09 05:05	27° \mathcal{O} 38'17	18°58'14	min. Earth dist.	1895 Jun 29 08:27	10° \mathcal{O} 48'16	0.56104 AU
	1894 Aug 11 10:47	0° \mathcal{O}		inferior conj	1895 Jul 01 14:24	9° \mathcal{O} 26'44	-4°29'45

minimum elong	1895 Jul 01 08:26	9°☿35'47	4°28'47	morning rise	1896 Jun 19 08:44	16°♄13'45	
morning rise	1895 Jul 10 01:09	5°☿29'37		direct	1896 Jun 22 09:10	15°♄53'22	
direct	1895 Jul 12 18:45	5°☿10'42		morning max el	1896 Jul 04 03:41	21°♄23'15	21°25'03
morning max el	1895 Jul 22 22:07	9°☿52'46	20°01'37		1896 Jul 11 09:20	0°☿	
asc. node	1895 Aug 01 11:20	22°☿33'34		asc. node	1896 Jul 18 08:23	11°☿34'21	
	1895 Aug 05 14:20	0°♁		morning set	1896 Jul 24 09:26	23°☿32'53	
morning set	1895 Aug 10 01:00	8°♁47'07			1896 Jul 27 11:27	0°♁	
superior conj	1895 Aug 17 19:23	24°♁35'11	1°45'49	superior conj	1896 Jul 31 17:42	8°♁55'55	1°42'00
minimum elong	1895 Aug 17 19:22	24°♁35'04	1°45'49	minimum elong	1896 Jul 31 16:19	8°♁48'48	1°41'55
	1895 Aug 20 13:00	0°♄		max. Earth dist.	1896 Aug 04 18:51	17°♁12'20	1.35161 AU
max. Earth dist.	1895 Aug 23 07:23	5°♄19'53	1.36875 AU	evening rise	1896 Aug 09 02:44	25°♁40'01	
evening rise	1895 Aug 27 03:57	12°♄29'31			1896 Aug 11 10:12	0°♄	
	1895 Sep 06 10:06	0°♊		desc. node	1896 Aug 25 17:09	23°♄56'11	
desc. node	1895 Sep 08 20:08	3°♊49'14			1896 Aug 29 20:42	0°♊	
	1895 Sep 28 01:50	0°♋		evening max el	1896 Sep 13 11:13	17°♊42'21	26°41'38
evening max el	1895 Oct 01 22:59	4°♋05'10	25°43'49	retrograde	1896 Sep 26 10:48	24°♊56'38	
retrograde	1895 Oct 14 06:15	11°♋07'03		evening set	1896 Oct 03 01:43	22°♊14'50	
evening set	1895 Oct 20 07:53	8°♋35'04		min. Earth dist.	1896 Oct 07 02:32	18°♊07'30	0.65937 AU
min. Earth dist.	1895 Oct 24 15:56	3°♋51'02	0.66903 AU	inferior conj	1896 Oct 08 20:28	16°♊03'09	-1°50'13
inferior conj	1895 Oct 25 22:02	2°♋15'18	-0°51'58	minimum elong	1896 Oct 08 23:24	15°♊54'26	1°49'02
minimum elong	1895 Oct 25 23:23	2°♋11'01	0°51'23	asc. node	1896 Oct 14 07:34	10°♊40'46	
	1895 Oct 27 17:42	30°♋♊		morning rise	1896 Oct 14 21:40	10°♊20'06	
asc. node	1895 Oct 28 10:31	29°♊11'37		direct	1896 Oct 17 19:20	9°♊33'05	
morning rise	1895 Oct 31 15:09	26°♊20'45		morning max el	1896 Oct 24 10:06	13°♊10'11	18°27'03
direct	1895 Nov 03 21:44	25°♊18'59			1896 Nov 05 12:19	0°♋	
morning max el	1895 Nov 10 22:05	29°♊14'52	19°10'22	morning set	1896 Nov 13 04:59	12°♋20'45	
	1895 Nov 11 15:27	0°♌		desc. node	1896 Nov 21 16:26	25°♋53'50	
	1895 Dec 02 10:44	0°♍			1896 Nov 24 06:38	0°♍	
morning set	1895 Dec 03 23:59	2°♍25'00		superior conj	1896 Nov 28 18:36	7°♍05'15	-0°46'15
desc. node	1895 Dec 05 19:24	5°♍14'11		minimum elong	1896 Nov 28 12:40	6°♍41'58	0°45'28
max. Earth dist.	1895 Dec 18 02:33	24°♍29'38	1.44817 AU	max. Earth dist.	1896 Nov 29 21:32	8°♍51'02	1.45145 AU
superior conj	1895 Dec 20 17:17	28°♍37'35	-1°29'28		1896 Dec 13 08:38	0°♎	
minimum elong	1895 Dec 20 08:29	28°♍02'42	1°28'36	evening rise	1896 Dec 14 21:35	2°♎25'39	
	1895 Dec 21 14:04	0°♏		greatest brilliancy	1896 Dec 24 18:59	17°♎59'24	-0.8m
evening rise	1896 Jan 04 10:39	22°♎24'11			1897 Jan 01 21:22	0°♏	
	1896 Jan 09 01:17	0°♐		evening max el	1897 Jan 06 16:18	5°♏49'15	19°09'17
asc. node	1896 Jan 24 09:48	22°♏29'05		asc. node	1897 Jan 10 06:50	8°♏46'53	
evening max el	1896 Jan 24 06:51	22°♏21'40	18°31'17	retrograde	1897 Jan 13 15:48	9°♏48'11	
retrograde	1896 Jan 30 20:14	25°♏58'15		evening set	1897 Jan 17 00:14	8°♏42'46	
evening set	1896 Feb 02 22:16	25°♏05'13		inferior conj	1897 Jan 22 14:20	2°♏53'25	3°19'39
inferior conj	1896 Feb 08 18:17	19°♏32'21	3°38'44	minimum elong	1897 Jan 22 12:03	3°♏00'41	3°19'14
minimum elong	1896 Feb 08 16:58	19°♏36'14	3°38'38	min. Earth dist.	1897 Jan 24 00:58	1°♏03'11	0.65974 AU
min. Earth dist.	1896 Feb 10 20:10	17°♏05'32	0.64578 AU		1897 Jan 24 21:23	30°♋♎	
morning rise	1896 Feb 14 11:10	13°♏24'25		morning rise	1897 Jan 27 23:36	26°♎41'42	
direct	1896 Feb 21 06:44	10°♏33'33		direct	1897 Feb 03 09:34	23°♎52'33	
desc. node	1896 Mar 02 18:32	15°♏35'55			1897 Feb 14 17:07	0°♏	
morning max el	1896 Mar 05 18:27	18°♏23'26	27°19'52	morning max el	1897 Feb 16 04:17	1°♏25'35	26°22'38
	1896 Mar 15 13:38	0°♐		desc. node	1897 Feb 17 15:35	2°♏57'14	
	1896 Apr 03 15:52	0°♑			1897 Mar 09 15:30	0°♐	
morning set	1896 Apr 10 02:44	12°♑05'56		morning set	1897 Mar 24 06:47	25°♐12'46	
max. Earth dist.	1896 Apr 14 20:51	21°♑38'54	1.33632 AU		1897 Mar 26 19:08	0°♑	
				max. Earth dist.	1897 Mar 28 08:57	3°♑04'06	1.34982 AU
superior conj	1896 Apr 18 05:27	28°♑40'04	-0°32'38	superior conj	1897 Apr 02 03:30	12°♑39'30	-1°00'25
minimum elong	1896 Apr 18 07:05	28°♑48'43	0°32'18	minimum elong	1897 Apr 02 06:32	12°♑55'04	0°59'52
	1896 Apr 18 20:33	0°♒		asc. node	1897 Apr 08 06:09	25°♑20'41	
asc. node	1896 Apr 21 09:07	5°♒22'48		evening rise	1897 Apr 09 20:10	28°♑37'38	
evening rise	1896 Apr 25 11:45	14°♒06'37			1897 Apr 10 12:11	0°♒	
	1896 May 03 13:39	0°♓		evening max el	1897 Apr 28 15:22	29°♒06'45	20°43'00
evening max el	1896 May 16 14:08	18°♓11'20	22°08'53		1897 Apr 29 14:16	0°♓	
retrograde	1896 May 29 09:22	24°♓30'24		retrograde	1897 May 09 22:30	4°♓36'15	
desc. node	1896 May 29 17:46	24°♓30'07		evening set	1897 May 12 01:12	4°♓25'29	
evening set	1896 Jun 01 04:52	20°♓12'52		desc. node	1897 May 16 14:46	2°♓57'22	
min. Earth dist.	1896 Jun 09 19:54	20°♓31'16	0.55092 AU	inferior conj	1897 May 21 07:31	0°♓27'39	-1°21'54
inferior conj	1896 Jun 10 13:43	20°♓06'15	-3°14'15	minimum elong	1897 May 21 03:38	0°♓33'12	1°20'29
minimum elong	1896 Jun 10 05:57	20°♓17'10	3°12'00				

	1897 May 22 02:49	30° 		evening set	1898 Apr 22 19:16	15° 	06°50
min. Earth dist.	1897 May 22 08:21	29°  52°05	0.54986 AU	inferior conj	1898 May 01 10:25	11° 	02°35 0°35'28
morning rise	1897 May 30 05:31	26°  20°02		minimum elong	1898 May 01 11:56	11° 	00°11 0°34'56
direct	1897 Jun 02 18:48	25°  52°50		desc. node	1898 May 03 11:49	9° 	43°55
	1897 Jun 13 08:29	0° 		min. Earth dist.	1898 May 03 22:47	9° 	26°48 0.55831 AU
morning max el	1897 Jun 15 23:31	2°  14°12	23°03'06	morning rise	1898 May 10 01:53	6° 	23°39
	1897 Jul 04 17:01	0° 		direct	1898 May 14 13:11	5° 	38°41
asc. node	1897 Jul 05 05:26	1°  01°23		morning max el	1898 May 28 14:20	12° 	43°04 24°44'43
morning set	1897 Jul 08 20:26	8°  26°51			1898 Jun 10 22:29	0° 	
				asc. node	1898 Jun 22 02:29	20° 	47°18
superior conj	1897 Jul 15 22:42	23°  36°51	1°32'03	morning set	1898 Jun 23 08:16	23° 	12°3'19
minimum elong	1897 Jul 15 20:32	23°  25°18	1°31'50		1898 Jun 26 10:18	0° 	
max. Earth dist.	1897 Jul 18 15:20	29°  19°07	1.33818 AU				
	1897 Jul 18 23:09	0° 		superior conj	1898 Jun 30 07:53	8° 	29°38 1°17'07
evening rise	1897 Jul 23 15:10	9°  13°04		minimum elong	1898 Jun 30 05:28	8° 	16°29 1°16'46
	1897 Aug 03 20:14	0° 		max. Earth dist.	1898 Jul 01 20:07	11° 	46°19 1.32883 AU
desc. node	1897 Aug 12 14:09	13°  17°08		evening rise	1898 Jul 07 13:25	23° 	50°14
	1897 Aug 25 19:45	0° 			1898 Jul 10 15:24	0° 	
evening max el	1897 Aug 26 23:04	1°  06°53	27°17'29		1898 Jul 28 12:13	0° 	
retrograde	1897 Sep 09 09:50	8°  25°39		desc. node	1898 Jul 30 11:10	2° 	40°40
evening set	1897 Sep 16 10:47	5°  42°09		evening max el	1898 Aug 09 08:54	14° 	06°29 27°24'56
min. Earth dist.	1897 Sep 20 05:09	2°  10°40	0.64611 AU	retrograde	1898 Aug 23 02:45	21° 	17°24'05
inferior conj	1897 Sep 22 11:43	29°  17°42	-2°48'04	evening set	1898 Aug 30 07:43	18° 	50°34
minimum elong	1897 Sep 22 16:08	29°  17°30	2°46'31	min. Earth dist.	1898 Sep 02 22:04	15° 	49°52 0.62943 AU
	1897 Sep 22 05:21	30°  17°17		inferior conj	1898 Sep 05 17:02	13° 	06°50 -3°42'14
morning rise	1897 Sep 28 22:27	24°  17°14		minimum elong	1898 Sep 05 22:19	12° 	53°56 3°40'46
asc. node	1897 Oct 01 04:38	23°  17°39		morning rise	1898 Sep 12 14:19	7° 	56°11
direct	1897 Oct 01 13:34	23°  17°38		direct	1898 Sep 15 01:30	7° 	56°11
morning max el	1897 Oct 08 01:39	27°  17°05	18°00'33	asc. node	1898 Sep 18 01:42	8° 	56°11
	1897 Oct 10 14:55	0° 		morning max el	1898 Sep 21 17:44	10° 	54°04 17°51'40
morning set	1897 Oct 25 14:49	23°  17°41			1898 Oct 04 12:27	0° 	
	1897 Oct 29 09:09	0° 		morning set	1898 Oct 08 00:23	6° 	09°51
superior conj	1897 Nov 08 04:58	16°  17°05	0°02'25	superior conj	1898 Oct 19 15:28	26° 	16°47 0°45'08
minimum elong	1897 Nov 08 05:15	16°  17°06	0°02'21	minimum elong	1898 Oct 19 19:33	26° 	16°47 0°44'35
behind sun begin	1897 Nov 07 18:52	15°  17°24			1898 Oct 21 21:05	0° 	
behind sun end	1897 Nov 08 15:38	16°  17°47		desc. node	1898 Oct 26 10:31	7° 	26°37
desc. node	1897 Nov 08 13:29	16°  17°39		max. Earth dist.	1898 Oct 26 08:05	7° 	16°49 1.43638 AU
max. Earth dist.	1897 Nov 12 16:20	23°  17°12	1.44731 AU	evening rise	1898 Nov 03 21:10	20° 	17°46'16
	1897 Nov 16 23:55	0° 			1898 Nov 09 21:57	0° 	
evening rise	1897 Nov 24 12:57	11°  17°42			1898 Dec 01 07:08	0° 	
	1897 Dec 06 12:55	0° 		evening max el	1898 Dec 03 20:43	2° 	49°20 21°10'05
greatest brilliancy	1897 Dec 08 16:51	3°  17°13	-0.6m	retrograde	1898 Dec 12 11:14	7° 	55°43
evening max el	1897 Dec 20 21:15	19°  17°18	20°03'06	asc. node	1898 Dec 15 00:56	7° 	55°43
asc. node	1897 Dec 28 03:52	23°  17°47		evening set	1898 Dec 16 13:25	6° 	55°43
retrograde	1897 Dec 28 13:34	23°  17°48		inferior conj	1898 Dec 21 22:07	0° 	07°58 2°11'20
evening set	1898 Jan 01 05:56	22°  17°29		minimum elong	1898 Dec 21 19:39	0° 	16°27 2°10'29
inferior conj	1898 Jan 06 16:25	16°  17°26	2°49'44		1898 Dec 22 00:26	30° 	17°26'37
minimum elong	1898 Jan 06 13:47	16°  17°35	2°49'01	min. Earth dist.	1898 Dec 22 06:43	29° 	17°38'19 0.67574 AU
min. Earth dist.	1898 Jan 07 13:16	15°  17°16	0.66969 AU	morning rise	1898 Dec 27 01:43	23° 	17°54'56
morning rise	1898 Jan 11 21:25	10°  17°13		direct	1899 Jan 01 07:40	21° 	17°37'35
direct	1898 Jan 17 18:09	7°  17°36		morning max el	1899 Jan 11 21:44	27° 	17°56'05 23°37'54
morning max el	1898 Jan 29 13:10	14°  17°38	25°05'12		1899 Jan 13 20:40	0° 	
desc. node	1898 Feb 04 12:40	21°  17°22		desc. node	1899 Jan 22 09:44	10° 	33°23
	1898 Feb 11 02:57	0° 			1899 Feb 04 19:59	0° 	
	1898 Mar 02 12:01	0° 		morning set	1899 Feb 16 05:36	18° 	27°06
morning set	1898 Mar 06 17:48	7°  17°25		max. Earth dist.	1899 Feb 20 04:36	25° 	27°47 1.38846 AU
max. Earth dist.	1898 Mar 10 09:46	14°  17°06	1.36763 AU		1899 Feb 22 19:59	0° 	
superior conj	1898 Mar 16 16:05	26°  17°06	-1°26'31	superior conj	1899 Feb 27 15:28	8° 	51°18 -1°48'19
minimum elong	1898 Mar 16 20:09	26°  17°26	1°25'56	minimum elong	1899 Feb 27 19:35	9° 	51°18 1°47'56
	1898 Mar 18 15:12	0° 		evening rise	1899 Mar 08 19:41	26° 	51°18
evening rise	1898 Mar 24 23:42	12°  17°48			1899 Mar 10 14:40	0° 	
asc. node	1898 Mar 26 03:11	15°  17°06		asc. node	1899 Mar 13 00:14	4° 	51°18
	1898 Apr 03 03:35	0°		evening max el	1899 Mar 25 04:08	22°	51°18 18°45'24
evening max el	1898 Apr 11 04:27	10° 17°41	19°34'20	retrograde	1899 Apr 02 06:16	26°	51°18
retrograde	1898 Apr 20 18:09	15° 17°18		evening set	1899 Apr 04 12:41	26°	51°18

inferior conj	1899 Apr 12 08:17	22°  12'29	2°08'54	inferior conj	1900 Mar 25 03:20	4°  02'04	3°08'30
minimum elong	1899 Apr 12 12:15	22°  05'08	2°07'45	minimum elong	1900 Mar 25 06:41	3°  54'50	3°07'52
min. Earth dist.	1899 Apr 15 15:48	19°  46'32	0.57446 AU	min. Earth dist.	1900 Mar 28 13:15	1°  06'22	0.59499 AU
morning rise	1899 Apr 20 08:42	17°  00'04			1900 Mar 29 23:07	30°  R 	
desc. node	1899 Apr 20 08:52	16°  59'53		morning rise	1900 Apr 01 09:12	28°  R  23'33	
direct	1899 Apr 25 21:41	15°  44'44		desc. node	1900 Apr 07 05:55	26°  R  32'29	
morning max el	1899 May 10 05:58	23°  16'27	26°14'56	direct	1900 Apr 07 18:51	26°  R  31'41	
	1899 May 16 06:45	0°  8			1900 Apr 17 01:05	0°  Y	
	1899 Jun 03 18:10	0°  II		morning max el	1900 Apr 22 02:47	4°  Y18'18	27°19'14
morning set	1899 Jun 07 19:24	8°  II17'11			1900 May 11 00:14	0°  8	
asc. node	1899 Jun 08 23:32	10°  II46'19		morning set	1900 May 23 04:02	23°  801'28	
					1900 May 26 10:51	0°  II	
superior conj	1899 Jun 14 19:16	23°  II27'36	0°58'04	asc. node	1900 May 26 20:34	0°  II52'33	
minimum elong	1899 Jun 14 17:05	23°  II15'37	0°57'40				
max. Earth dist.	1899 Jun 15 06:36	24°  II29'54	1.32347 AU	superior conj	1900 May 30 06:59	8°  II23'22	0°35'37
	1899 Jun 17 18:58	0°  6		minimum elong	1900 May 30 05:28	8°  II15'03	0°35'18
evening rise	1899 Jun 21 18:26	8°  629'19		max. Earth dist.	1900 May 29 18:59	7°  II17'21	1.32192 AU
	1899 Jul 03 01:01	0°  Omega		evening rise	1900 Jun 06 03:40	23°  II18'26	
desc. node	1899 Jul 17 08:10	20°  Omega51'20			1900 Jun 09 09:23	0°  6	
evening max el	1899 Jul 22 14:20	26°  Omega29'11	26°59'43		1900 Jun 27 09:13	0°  Omega	
	1899 Jul 26 19:07	0°  n		desc. node	1900 Jul 04 05:10	7°  Omega46'28	
retrograde	1899 Aug 05 12:19	3°  n43'03		evening max el	1900 Jul 04 12:54	8°  Omega05'02	26°02'02
evening set	1899 Aug 12 12:15	1°  n32'56		retrograde	1900 Jul 18 12:54	15°  Omega15'08	
	1899 Aug 14 18:24	30°  R  Omega		evening set	1900 Jul 24 19:38	13°  Omega39'51	
min. Earth dist.	1899 Aug 16 04:36	28°  Omega52'12	0.61008 AU	min. Earth dist.	1900 Jul 29 01:27	11°  Omega02'51	0.58947 AU
inferior conj	1899 Aug 19 09:10	26°  Omega08'06	-4°27'18	inferior conj	1900 Aug 01 08:27	8°  Omega35'58	-4°54'33
minimum elong	1899 Aug 19 13:58	25°  Omega57'45	4°26'26	minimum elong	1900 Aug 01 10:29	8°  Omega32'08	4°54'25
morning rise	1899 Aug 26 17:26	21°  Omega18'08		morning rise	1900 Aug 09 03:32	4°  Omega08'55	
direct	1899 Aug 29 03:29	20°  Omega54'41		direct	1900 Aug 11 15:10	3°  Omega48'13	
asc. node	1899 Sep 04 22:46	24°  Omega07'27		morning max el	1900 Aug 19 15:12	7°  Omega37'53	18°31'30
morning max el	1899 Sep 05 07:18	24°  Omega27'43	18°01'31	asc. node	1900 Aug 22 19:48	11°  Omega13'01	
	1899 Sep 09 20:12	0°  n			1900 Sep 03 00:39	0°  n	
morning set	1899 Sep 21 03:29	19°  n28'40		morning set	1900 Sep 04 19:03	3°  n23'36	
	1899 Sep 26 20:39	0°  u					
superior conj	1899 Oct 01 04:50	7°  u47'11	1°16'27	superior conj	1900 Sep 13 16:48	20°  n24'39	1°35'48
minimum elong	1899 Oct 01 09:14	8°  u06'38	1°15'59	minimum elong	1900 Sep 13 19:42	20°  n38'07	1°35'36
max. Earth dist.	1899 Oct 08 19:11	20°  u49'10	1.42007 AU		1900 Sep 18 23:18	0°  u	
desc. node	1899 Oct 13 07:32	28°  u12'42		max. Earth dist.	1900 Sep 21 01:24	3°  u40'13	1.40037 AU
	1899 Oct 14 10:17	0°  m		evening rise	1900 Sep 25 07:29	10°  u55'34	
evening rise	1899 Oct 14 15:30	0°  m20'49		desc. node	1900 Sep 30 04:32	18°  u54'03	
	1899 Nov 03 11:28	0°  x			1900 Oct 07 08:22	0°  m	
evening max el	1899 Nov 16 14:49	16°  x21'12	22°26'16	evening max el	1900 Oct 30 04:51	29°  m55'56	23°46'15
retrograde	1899 Nov 26 06:59	22°  x06'12			1900 Oct 30 06:29	0°  x	
evening set	1899 Nov 30 20:56	20°  x15'11		retrograde	1900 Nov 09 23:37	6°  x17'13	
asc. node	1899 Dec 01 22:00	19°  x18'11		evening set	1900 Nov 15 02:55	4°  x08'59	
inferior conj	1899 Dec 06 05:26	13°  x54'51	1°26'08	asc. node	1900 Nov 18 19:02	0°  x05'16	
minimum elong	1899 Dec 06 03:36	14°  x01'14	1°25'25		1900 Nov 18 20:38	30°  R  m	
min. Earth dist.	1899 Dec 06 02:53	14°  x03'43	0.67820 AU	min. Earth dist.	1900 Nov 19 23:24	28°  m30'22	0.67723 AU
morning rise	1899 Dec 11 10:06	7°  x44'10		inferior conj	1900 Nov 20 12:35	27°  m45'30	0°35'33
direct	1899 Dec 16 01:08	5°  x49'25		minimum elong	1900 Nov 20 11:45	27°  m48'20	0°35'12
morning max el	1899 Dec 25 09:12	11°  x19'23	22°10'26	morning rise	1900 Nov 25 20:33	21°  m39'17	
desc. node	1900 Jan 09 06:46	0°  316'24		direct	1900 Nov 29 21:34	20°  m07'11	
	1900 Jan 09 02:10	0°  3		morning max el	1900 Dec 08 03:07	24°  m53'03	20°50'24
morning set	1900 Jan 27 12:46	28°  304'42			1900 Dec 12 15:03	0°  x	
	1900 Jan 28 17:11	0°  approx		desc. node	1900 Dec 27 03:48	20°  x22'45	
max. Earth dist.	1900 Feb 02 01:54	7°  approx13'17	1.40988 AU		1901 Jan 02 12:27	0°  3	
				morning set	1901 Jan 06 17:39	6°  331'06	
superior conj	1900 Feb 09 20:46	20°  approx41'35	-2°02'14	max. Earth dist.	1901 Jan 15 06:38	20°  306'06	1.42885 AU
minimum elong	1900 Feb 09 23:03	20°  approx51'45	2°02'09		1901 Jan 21 06:30	0°  approx	
	1900 Feb 15 00:04	0°  x		superior conj	1901 Jan 22 02:44	1°  approx25'08	-2°03'32
evening rise	1900 Feb 20 04:48	9°  x39'26		minimum elong	1901 Jan 22 00:38	1°  approx16'19	2°03'29
asc. node	1900 Feb 27 21:17	23°  x37'22		evening rise	1901 Feb 02 23:07	22°  approx03'03	
	1900 Mar 03 21:21	0°  Y			1901 Feb 07 10:35	0°  x	
evening max el	1900 Mar 08 11:13	5°  Y37'45	18°16'28	asc. node	1901 Feb 14 18:19	12°  x08'54	
retrograde	1900 Mar 15 13:22	9°  Y09'58		evening max el	1901 Feb 19 22:32	18°  x42'06	18°07'16
evening set	1900 Mar 18 01:45	8°  Y44'12		retrograde	1901 Feb 26 12:18	22°  x05'59	

evening set	1901 Mar 01 05:55	21° Υ 30'27		retrograde	1902 Feb 09 22:18	5° Υ 28'19	
inferior conj	1901 Mar 07 17:10	16° Υ 27'26	3°37'40	evening set	1902 Feb 12 21:01	4° Υ 42'05	
minimum elong	1901 Mar 07 18:35	16° Υ 23'52	3°37'33		1902 Feb 18 07:09	30° Υ	
min. Earth dist.	1901 Mar 10 18:14	13° Υ 26'43	0.61636 AU	inferior conj	1902 Feb 18 21:40	29° \approx 19'41	3°43'29
morning rise	1901 Mar 14 05:46	10° Υ 32'04		minimum elong	1902 Feb 18 21:12	29° \approx 20'58	3°43'29
direct	1901 Mar 21 02:30	8° Υ 07'30		min. Earth dist.	1902 Feb 21 08:34	26° \approx 35'43	0.63593 AU
desc. node	1901 Mar 25 02:57	8° Υ 52'30		morning rise	1902 Feb 24 20:34	23° \approx 14'46	
morning max el	1901 Apr 04 06:06	16° Υ 01'56	27°48'16	direct	1902 Mar 03 18:51	20° \approx 29'06	
	1901 Apr 15 17:10	0° Υ		desc. node	1902 Mar 11 23:59	23° \approx 36'33	
	1901 May 03 13:58	0° Υ		morning max el	1902 Mar 17 14:01	28° \approx 24'18	27°40'04
morning set	1901 May 07 08:16	7° Υ 30'05			1902 Mar 19 03:04	0° Υ	
max. Earth dist.	1901 May 13 05:25	19° Υ 55'46	1.32422 AU		1902 Apr 09 12:07	0° Υ	
asc. node	1901 May 13 17:35	21° Υ 01'51		morning set	1902 Apr 21 05:44	21° Υ 35'15	
					1902 Apr 25 08:41	0° Υ	
superior conj	1901 May 14 17:24	23° Υ 11'29	0°10'28	max. Earth dist.	1902 Apr 26 09:44	2° Υ 11'19	1.33057 AU
minimum elong	1901 May 14 16:54	23° Υ 08'50	0°10'21				
behind sun begin	1901 May 14 13:00	22° Υ 47'32		superior conj	1902 Apr 29 00:43	7° Υ 46'13	-0°16'36
behind sun end	1901 May 14 20:49	23° Υ 30'07		minimum elong	1902 Apr 29 01:32	7° Υ 50'35	0°16'25
	1901 May 17 20:08	0° Υ		asc. node	1902 Apr 30 14:38	11° Υ 10'13	
evening rise	1901 May 21 15:06	8° Υ 10'45		evening rise	1902 May 06 02:51	22° Υ 59'53	
	1901 Jun 01 23:35	0° Υ			1902 May 09 12:09	0° Υ	
evening max el	1901 Jun 16 04:40	18° Υ 56'56	24°38'44	evening max el	1902 May 28 18:34	29° Υ 27'02	23°03'22
desc. node	1901 Jun 21 02:11	22° Υ 56'07			1902 May 29 08:27	0° Υ	
retrograde	1901 Jun 30 02:52	25° Υ 59'56		desc. node	1902 Jun 07 23:12	5° Υ 44'45	
evening set	1901 Jul 05 03:20	25° Υ 03'05		retrograde	1902 Jun 11 04:42	6° Υ 08'33	
min. Earth dist.	1901 Jul 10 15:47	22° Υ 11'42	0.57019 AU	evening set	1902 Jun 14 17:07	5° Υ 41'23	
inferior conj	1901 Jul 13 11:58	20° Υ 21'28	-4°51'07	min. Earth dist.	1902 Jun 22 03:50	2° Υ 21'29	0.55570 AU
minimum elong	1901 Jul 13 08:57	20° Υ 26'22	4°50'53	inferior conj	1902 Jun 23 20:04	1° Υ 22'59	-4°03'32
morning rise	1901 Jul 21 17:17	16° Υ 15'54		minimum elong	1902 Jun 23 12:38	1° Υ 33'49	4°01'55
direct	1901 Jul 24 08:17	15° Υ 56'45			1902 Jun 26 06:27	30° Υ	
morning max el	1901 Aug 02 14:26	20° Υ 15'26	19°22'39	morning rise	1902 Jul 02 10:40	27° Υ 30'00	
asc. node	1901 Aug 09 16:50	29° Υ 12'57		direct	1902 Jul 05 06:26	27° Υ 11'03	
	1901 Aug 10 04:45	0° Υ			1902 Jul 13 09:31	0° Υ	
morning set	1901 Aug 19 19:17	17° Υ 44'07		morning max el	1902 Jul 16 02:48	2° Υ 12'30	20°34'54
	1901 Aug 25 22:24	0° Υ		asc. node	1902 Jul 27 13:52	17° Υ 54'48	
					1902 Aug 02 21:22	0° Υ	
superior conj	1901 Aug 27 21:46	3° Υ 53'10	1°44'42	morning set	1902 Aug 04 01:25	2° Υ 22'54	
minimum elong	1901 Aug 27 22:45	3° Υ 57'56	1°44'40				
max. Earth dist.	1901 Sep 03 05:08	15° Υ 51'09	1.37986 AU	superior conj	1902 Aug 11 14:57	17° Υ 58'52	1°45'02
evening rise	1901 Sep 06 23:30	22° Υ 37'37		minimum elong	1902 Aug 11 14:17	17° Υ 55'30	1°45'00
	1901 Sep 11 06:21	0° Υ		max. Earth dist.	1902 Aug 16 11:59	27° Υ 42'02	1.36100 AU
desc. node	1901 Sep 17 01:31	9° Υ 26'22			1902 Aug 17 16:34	0° Υ	
	1901 Oct 01 04:35	0° Υ		evening rise	1902 Aug 20 12:31	5° Υ 20'16	
evening max el	1901 Oct 12 16:51	13° Υ 33'38	25°03'31	desc. node	1902 Sep 03 22:33	29° Υ 44'49	
retrograde	1901 Oct 24 12:10	20° Υ 24'14			1902 Sep 04 02:30	0° Υ	
evening set	1901 Oct 30 05:41	17° Υ 59'50		evening max el	1902 Sep 25 04:48	27° Υ 13'07	26°10'36
min. Earth dist.	1901 Nov 03 17:57	12° Υ 55'33	0.67295 AU		1902 Sep 28 07:22	0° Υ	
inferior conj	1901 Nov 04 17:49	11° Υ 37'18	-0°19'11	retrograde	1902 Oct 07 20:00	4° Υ 22'21	
minimum elong	1901 Nov 04 18:18	11° Υ 35'43	0°18'58	evening set	1902 Oct 14 03:26	1° Υ 45'20	
asc. node	1901 Nov 05 16:04	10° Υ 24'54			1902 Oct 15 23:38	30° Υ	
morning rise	1901 Nov 10 07:04	5° Υ 37'51		min. Earth dist.	1902 Oct 18 08:16	27° Υ 16'45	0.66532 AU
direct	1901 Nov 13 19:42	4° Υ 26'08		inferior conj	1902 Oct 19 19:20	25° Υ 28'09	-1°16'35
morning max el	1901 Nov 21 04:52	8° Υ 37'28	19°42'38	minimum elong	1902 Oct 19 21:21	25° Υ 21'54	1°15'44
greatest brilliancy	1901 Dec 04 11:57	26° Υ 16'14	-0.7m	asc. node	1902 Oct 23 13:05	21° Υ 15'15	
	1901 Dec 06 23:38	0° Υ		morning rise	1902 Oct 25 15:42	19° Υ 38'07	
desc. node	1901 Dec 14 00:48	10° Υ 45'25		direct	1902 Oct 28 18:06	18° Υ 43'15	
morning set	1901 Dec 16 13:59	14° Υ 41'20		morning max el	1902 Nov 04 13:43	22° Υ 30'19	18°49'52
	1901 Dec 26 09:31	0° Υ			1902 Nov 10 15:08	0° Υ	
max. Earth dist.	1901 Dec 28 18:21	3° Υ 44'51	1.44291 AU	morning set	1902 Nov 26 02:49	23° Υ 47'13	
					1902 Nov 30 01:30	0° Υ	
superior conj	1902 Jan 02 06:08	10° Υ 55'59	-1°47'27	desc. node	1902 Nov 30 21:50	1° Υ 20'01	
minimum elong	1902 Jan 01 22:45	10° Υ 26'17	1°46'54	max. Earth dist.	1902 Dec 11 10:56	17° Υ 53'39	1.45045 AU
	1902 Jan 13 19:35	0° Υ					
evening rise	1902 Jan 15 22:11	3° \approx 33'37		superior conj	1902 Dec 12 12:21	19° Υ 33'31	-1°12'36
asc. node	1902 Feb 01 15:21	29° \approx 58'09		minimum elong	1902 Dec 12 03:58	19° Υ 00'33	1°11'38
	1902 Feb 01 15:58	0° Υ			1902 Dec 19 03:00	0° Υ	
evening max el	1902 Feb 03 11:04	1° Υ 59'28	18°17'16	evening rise	1902 Dec 27 22:30	14° Υ 06'29	

	1903 Jan 06 19:31	0°♊				1904 Jan 02 09:24	0°♊		
evening max el	1903 Jan 17 22:19	15°♊24'28	18°45'28	asc. node		1904 Jan 06 09:25	2°♊40'02		
asc. node	1903 Jan 19 12:23	16°♊53'09		retrograde		1904 Jan 08 11:56	3°♊04'19		
retrograde	1903 Jan 24 15:15	19°♊09'31		evening set		1904 Jan 11 23:35	1°♊53'14		
evening set	1903 Jan 27 19:47	18°♊11'30				1904 Jan 14 03:47	30°♊♊		
inferior conj	1903 Feb 02 12:59	12°♊31'34	3°32'09	inferior conj		1904 Jan 17 11:54	25°♊58'00	3°08'07	
minimum elong	1903 Feb 02 11:11	12°♊37'04	3°31'55	minimum elong		1904 Jan 17 09:24	26°♊06'09	3°07'34	
min. Earth dist.	1903 Feb 04 08:23	10°♊19'08	0.65220 AU	min. Earth dist.		1904 Jan 18 16:32	24°♊24'36	0.66449 AU	
morning rise	1903 Feb 08 02:10	6°♊21'37		morning rise		1904 Jan 22 19:00	19°♊45'33		
direct	1903 Feb 14 18:20	3°♊29'32		direct		1904 Jan 28 23:48	17°♊00'22		
desc. node	1903 Feb 26 21:02	10°♊09'18		morning max el		1904 Feb 10 08:55	24°♊21'32	25°51'33	
morning max el	1903 Feb 27 23:39	11°♊14'35	26°58'33	desc. node		1904 Feb 13 18:06	28°♊00'22		
	1903 Mar 14 21:52	0°♊				1904 Feb 15 10:59	0°♊		
	1903 Apr 02 00:25	0°♊				1904 Mar 07 08:04	0°♊		
morning set	1903 Apr 04 17:18	5°♊06'45		morning set		1904 Mar 17 14:47	17°♊52'17		
max. Earth dist.	1903 Apr 09 04:12	13°♊53'53	1.34141 AU	max. Earth dist.		1904 Mar 21 11:04	25°♊06'02	1.35688 AU	
						1904 Mar 23 23:34	0°♊		
superior conj	1903 Apr 13 02:52	22°♊00'43	-0°44'30						
minimum elong	1903 Apr 13 05:06	22°♊12'26	0°44'04	superior conj		1904 Mar 26 21:20	5°♊47'44	-1°11'50	
	1903 Apr 16 21:51	0°♊		minimum elong		1904 Mar 27 00:53	6°♊05'38	1°11'14	
asc. node	1903 Apr 17 11:41	1°♊13'09		asc. node		1904 Apr 03 08:44	21°♊06'29		
evening rise	1903 Apr 20 13:03	7°♊39'12		evening rise		1904 Apr 03 19:42	22°♊02'32		
	1903 May 02 13:36	0°♊				1904 Apr 07 19:13	0°♊		
evening max el	1903 May 10 14:09	10°♊06'25	21°30'44	evening max el		1904 Apr 21 20:31	21°♊18'14	20°11'33	
retrograde	1903 May 22 19:39	16°♊05'32		retrograde		1904 May 02 09:34	26°♊24'18		
evening set	1903 May 25 05:37	15°♊52'17		evening set		1904 May 04 10:26	26°♊13'43		
desc. node	1903 May 25 20:14	15°♊44'56		desc. node		1904 May 11 17:15	23°♊16'38		
inferior conj	1903 Jun 03 15:25	11°♊51'44	-2°29'36	inferior conj		1904 May 13 11:25	22°♊15'04	-0°30'44	
minimum elong	1903 Jun 03 08:44	12°♊01'06	2°27'24	minimum elong		1904 May 13 09:59	22°♊17'11	0°30'11	
min. Earth dist.	1903 Jun 03 15:57	11°♊50'59	0.54924 AU	min. Earth dist.		1904 May 15 05:01	21°♊13'28	0.55238 AU	
morning rise	1903 Jun 12 12:33	7°♊54'51		morning rise		1904 May 22 07:55	17°♊55'43		
direct	1903 Jun 15 17:24	7°♊32'28		direct		1904 May 26 05:57	17°♊22'21		
morning max el	1903 Jun 28 03:52	13°♊25'15	22°05'24	morning max el		1904 Jun 08 20:41	24°♊03'12	23°46'37	
	1903 Jul 10 13:08	0°♊				1904 Jun 14 06:23	0°♊		
asc. node	1903 Jul 14 10:55	7°♊07'39		asc. node		1904 Jun 30 08:00	26°♊43'34		
morning set	1903 Jul 19 11:10	17°♊12'43				1904 Jul 01 22:14	0°♊		
	1903 Jul 25 12:11	0°♊		morning set		1904 Jul 02 22:46	2°♊08'24		
superior conj	1903 Jul 26 16:28	2°♊29'18	1°38'27	superior conj		1904 Jul 09 23:31	17°♊15'53	1°26'16	
minimum elong	1903 Jul 26 14:42	2°♊19'57	1°38'19	minimum elong		1904 Jul 09 21:11	17°♊03'18	1°25'59	
max. Earth dist.	1903 Jul 30 03:04	9°♊38'25	1.34544 AU	max. Earth dist.		1904 Jul 12 03:36	21°♊55'01	1.33381 AU	
evening rise	1903 Aug 03 17:42	18°♊49'43				1904 Jul 16 00:26	0°♊		
	1903 Aug 09 17:51	0°♊		evening rise		1904 Jul 17 10:46	2°♊54'00		
desc. node	1903 Aug 21 19:35	19°♊41'44				1904 Aug 01 13:25	0°♊		
	1903 Aug 29 05:36	0°♊		desc. node		1904 Aug 07 16:35	9°♊08'03		
evening max el	1903 Sep 07 17:10	10°♊46'48	26°59'59	evening max el		1904 Aug 20 04:40	24°♊02'50	27°24'23	
retrograde	1903 Sep 20 22:21	18°♊03'49				1904 Aug 28 08:17	0°♊		
evening set	1903 Sep 27 17:54	15°♊20'26		retrograde		1904 Sep 02 18:37	1°♊20'31		
min. Earth dist.	1903 Oct 01 15:54	11°♊28'17	0.65417 AU			1904 Sep 07 20:25	30°♊♊		
inferior conj	1903 Oct 03 15:03	9°♊13'15	-2°14'57	evening set		1904 Sep 09 22:12	28°♊40'00		
minimum elong	1903 Oct 03 18:38	9°♊02'56	2°13'35	min. Earth dist.		1904 Sep 13 14:36	25°♊22'20	0.63949 AU	
morning rise	1903 Oct 09 20:07	3°♊35'43		inferior conj		1904 Sep 16 02:27	22°♊46'58	-3°11'44	
asc. node	1903 Oct 10 10:08	3°♊20'02		minimum elong		1904 Sep 16 07:20	22°♊34'14	3°10'10	
direct	1903 Oct 12 14:40	2°♊53'50		morning rise		1904 Sep 22 17:33	17°♊25'27		
morning max el	1903 Oct 19 03:31	6°♊26'03	18°13'34	direct		1904 Sep 25 06:46	16°♊53'01		
	1903 Nov 04 04:56	0°♊		asc. node		1904 Sep 26 07:12	16°♊58'16		
morning set	1903 Nov 06 20:27	4°♊20'21		morning max el		1904 Oct 01 19:35	20°♊18'44	17°54'30	
desc. node	1903 Nov 17 18:54	22°♊02'21				1904 Oct 09 01:50	0°♊		
				morning set		1904 Oct 18 17:11	16°♊12'12		
superior conj	1903 Nov 21 14:56	28°♊07'42	-0°25'30			1904 Oct 26 20:15	0°♊		
minimum elong	1903 Nov 21 11:38	27°♊54'42	0°25'04						
	1903 Nov 22 19:22	0°♊		superior conj		1904 Oct 31 10:23	7°♊34'29	0°21'45	
max. Earth dist.	1903 Nov 24 06:04	2°♊16'41	1.45062 AU	minimum elong		1904 Oct 31 12:45	7°♊44'08	0°21'25	
evening rise	1903 Dec 08 00:07	23°♊46'00		desc. node		1904 Nov 03 15:55	12°♊48'36		
	1903 Dec 12 00:14	0°♊		max. Earth dist.		1904 Nov 06 00:25	16°♊34'40	1.44349 AU	
greatest brilliancy	1903 Dec 20 00:17	12°♊20'15	-0.7m			1904 Nov 14 13:47	0°♊		
evening max el	1904 Jan 01 06:08	28°♊53'31	19°30'29	evening rise		1904 Nov 16 10:27	2°♊52'19		

	1904 Dec 04 14:14	0°♄		evening max el	1905 Nov 27 05:51	25°♄54'07	21°41'35
evening max el	1904 Dec 14 08:50	12°♄23'28	20°30'13		1905 Dec 02 04:46	0°♄	
retrograde	1904 Dec 22 09:50	17°♄07'57		retrograde	1905 Dec 06 06:57	1°♄17'11	
asc. node	1904 Dec 23 06:28	17°♄03'49		asc. node	1905 Dec 10 03:30	29°♄55'30	
evening set	1904 Dec 26 06:15	15°♄42'19			1905 Dec 10 00:57	30°♄♌	
inferior conj	1904 Dec 31 15:46	9°♄34'28	2°34'20	evening set	1905 Dec 10 13:58	29°♄35'40	
minimum elong	1904 Dec 31 13:08	9°♄43'23	2°33'33	inferior conj	1905 Dec 15 22:23	23°♄18'37	1°52'53
min. Earth dist.	1905 Jan 01 07:10	8°♄42'06	0.67275 AU	minimum elong	1905 Dec 15 20:08	23°♄26'24	1°52'04
morning rise	1905 Jan 05 19:52	3°♄21'18		min. Earth dist.	1905 Dec 16 02:03	23°♄05'57	0.67721 AU
direct	1905 Jan 11 10:25	0°♄52'22		morning rise	1905 Dec 21 02:09	17°♄06'22	
morning max el	1905 Jan 22 17:22	7°♄36'20	24°28'43	direct	1905 Dec 26 01:35	14°♄58'45	
desc. node	1905 Jan 30 15:09	16°♄46'33		morning max el	1906 Jan 05 02:55	20°♄56'44	23°00'13
	1905 Feb 09 05:35	0°♌			1906 Jan 12 20:56	0°♄	
morning set	1905 Feb 27 16:37	29°♌35'54		desc. node	1906 Jan 17 12:11	6°♄12'14	
	1905 Feb 27 22:07	0°♌			1906 Feb 02 12:04	0°♌	
max. Earth dist.	1905 Mar 03 08:46	6°♌08'48	1.37628 AU	morning set	1906 Feb 08 16:40	10°♌02'33	
				max. Earth dist.	1906 Feb 13 04:00	17°♌36'35	1.39770 AU
					1906 Feb 20 03:32	0°♌	
superior conj	1905 Mar 10 04:46	18°♌57'32	-1°36'29				
minimum elong	1905 Mar 10 09:02	19°♌18'07	1°35'57	superior conj	1906 Feb 20 21:01	1°♌20'05	-1°55'26
	1905 Mar 15 19:33	0°♌		minimum elong	1906 Feb 21 00:39	1°♌36'46	1°55'12
evening rise	1905 Mar 18 20:22	6°♌02'17		evening rise	1906 Mar 02 12:09	19°♌31'19	
asc. node	1905 Mar 21 05:47	10°♌44'50		asc. node	1906 Mar 08 02:48	0°♌02'56	
	1905 Apr 01 18:19	0°♌			1906 Mar 08 02:09	0°♌	
evening max el	1905 Apr 04 14:17	3°♌08'47	19°10'59	evening max el	1906 Mar 18 17:22	15°♌34'58	18°30'34
retrograde	1905 Apr 13 11:35	7°♌27'01		retrograde	1906 Mar 26 08:03	19°♌19'24	
evening set	1905 Apr 15 14:39	7°♌13'15		evening set	1906 Mar 28 16:54	18°♌58'50	
inferior conj	1905 Apr 23 21:31	3°♌02'10	1°19'05	inferior conj	1906 Apr 05 04:27	14°♌28'51	2°38'18
minimum elong	1905 Apr 24 00:31	2°♌57'05	1°18'04	minimum elong	1906 Apr 05 08:26	14°♌20'57	2°37'19
min. Earth dist.	1905 Apr 26 20:01	1°♌03'29	0.56443 AU	min. Earth dist.	1906 Apr 08 14:43	11°♌47'07	0.58285 AU
desc. node	1905 Apr 28 14:18	29°♌57'39		morning rise	1906 Apr 12 21:00	9°♌03'41	
	1905 Apr 28 12:43	30°♌♌		desc. node	1906 Apr 15 11:21	8°♌01'59	
morning rise	1905 May 02 07:24	28°♌08'46		direct	1906 Apr 18 19:32	7°♌33'06	
direct	1905 May 07 05:35	27°♌12'30		morning max el	1906 May 03 04:47	15°♌12'58	26°46'17
	1905 May 15 20:06	0°♌			1906 May 15 03:10	0°♌	
morning max el	1905 May 21 11:06	4°♌29'37	25°25'33		1906 May 31 22:49	0°♌	
	1905 Jun 08 18:00	0°♌		morning set	1906 Jun 01 20:46	1°♌54'24	
morning set	1905 Jun 17 10:31	17°♌04'13		asc. node	1906 Jun 04 02:05	6°♌37'49	
asc. node	1905 Jun 17 05:04	16°♌35'29					
	1905 Jun 23 09:54	0°♌		superior conj	1906 Jun 08 21:33	17°♌08'27	0°48'55
superior conj	1905 Jun 24 09:51	2°♌11'07	1°09'29	minimum elong	1906 Jun 08 19:37	16°♌57'45	0°48'32
minimum elong	1905 Jun 24 07:29	1°♌58'09	1°09'07	max. Earth dist.	1906 Jun 08 22:59	17°♌16'22	1.32226 AU
max. Earth dist.	1905 Jun 25 11:22	4°♌30'33	1.32607 AU		1906 Jun 14 19:23	0°♌	
evening rise	1905 Jul 01 12:11	17°♌22'21		evening rise	1906 Jun 15 19:13	2°♌05'55	
	1905 Jul 07 22:07	0°♌			1906 Jun 30 21:27	0°♌	
desc. node	1905 Jul 25 13:35	27°♌51'16		desc. node	1906 Jul 12 10:36	15°♌32'54	
	1905 Jul 27 06:51	0°♌		evening max el	1906 Jul 15 15:20	18°♌50'13	26°38'56
evening max el	1905 Aug 02 12:54	6°♌47'54	27°18'14	retrograde	1906 Jul 29 14:38	26°♌03'30	
retrograde	1905 Aug 16 08:22	14°♌03'41		evening set	1906 Aug 05 08:54	24°♌06'45	
evening set	1905 Aug 23 12:46	11°♌38'14		min. Earth dist.	1906 Aug 09 04:57	21°♌30'04	0.60126 AU
min. Earth dist.	1905 Aug 27 02:52	8°♌48'03	0.62152 AU	inferior conj	1906 Aug 12 11:57	18°♌50'27	-4°41'46
inferior conj	1905 Aug 30 02:36	6°♌02'31	-4°02'54	minimum elong	1906 Aug 12 15:55	18°♌42'25	4°41'14
minimum elong	1905 Aug 30 07:54	5°♌50'14	4°01'37	morning rise	1906 Aug 20 00:56	14°♌10'32	
morning rise	1905 Sep 06 04:33	1°♌00'32		direct	1906 Aug 22 11:16	13°♌48'34	
direct	1905 Sep 08 15:01	0°♌34'32		morning max el	1906 Aug 29 22:39	17°♌27'20	18°11'48
asc. node	1905 Sep 13 04:16	2°♌08'04		asc. node	1906 Aug 31 01:19	18°♌35'48	
morning max el	1905 Sep 15 11:02	4°♌02'07	17°53'31		1906 Sep 07 21:54	0°♌	
morning set	1905 Oct 01 10:56	29°♌04'23		morning set	1906 Sep 14 19:53	12°♌39'55	
	1905 Oct 01 23:17	0°♌					
superior conj	1905 Oct 12 08:39	18°♌21'03	0°59'55	superior conj	1906 Sep 24 08:23	0°♌22'22	1°26'03
minimum elong	1905 Oct 12 13:13	18°♌40'33	0°59'21	minimum elong	1906 Sep 24 12:16	0°♌39'55	1°25'40
	1905 Oct 19 07:45	0°♌			1906 Sep 24 03:26	0°♌	
max. Earth dist.	1905 Oct 19 14:43	0°♌28'28	1.42999 AU	max. Earth dist.	1906 Oct 01 23:16	13°♌42'37	1.41191 AU
desc. node	1905 Oct 21 12:55	3°♌35'51		evening rise	1906 Oct 06 23:44	22°♌02'15	
evening rise	1905 Oct 26 21:03	12°♌04'23		desc. node	1906 Oct 08 09:55	24°♌20'24	
	1905 Nov 07 16:27	0°♌			1906 Oct 11 23:37	0°♌	
					1906 Nov 01 19:33	0°♌	

































































































































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retrograde	1906 Nov 20 01:40	15°♊28'13		desc. node	1907 Sep 25 06:56	14°♏58'35	
evening set	1906 Nov 24 21:02	13°♊29'54			1907 Oct 05 04:36	0°♏	
asc. node	1906 Nov 27 00:33	11°♊20'14		evening max el	1907 Oct 23 10:52	23°♏02'57	24°19'53
inferior conj	1906 Nov 30 05:51	7°♊07'29	1°05'15	retrograde	1907 Nov 03 16:40	29°♏37'49	
minimum elong	1906 Nov 30 04:24	7°♊12'31	1°04'40	evening set	1907 Nov 09 01:51	27°♏22'46	
min. Earth dist.	1906 Nov 29 22:45	7°♊32'01	0.67818 AU	asc. node	1907 Nov 13 21:35	21°♏49'03	
morning rise	1906 Dec 05 11:39	0°♊58'12		min. Earth dist.	1907 Nov 13 18:50	21°♏58'17	0.67585 AU
	1906 Dec 06 22:06	30°♏		inferior conj	1907 Nov 14 12:25	20°♏59'10	0°12'46
direct	1906 Dec 09 20:28	29°♏13'19		minimum elong	1907 Nov 14 12:07	21°♏00'12	0°12'39
	1906 Dec 12 23:49	0°♊		transit middle	1907 Nov 14 12:07	21°♏00'12	0°12'39
morning max el	1906 Dec 18 16:50	4°♊24'11	21°35'01	transit begin	1907 Nov 14 10:24	21°♏05'59	
desc. node	1907 Jan 04 09:12	26°♊05'54		transit end	1907 Nov 14 13:50	20°♏54'26	
	1907 Jan 07 00:55	0°♊		morning rise	1907 Nov 19 22:23	14°♏55'13	
morning set	1907 Jan 19 11:33	19°♊06'05		direct	1907 Nov 23 17:56	13°♏32'00	
max. Earth dist.	1907 Jan 26 03:34	29°♊54'03	1.41838 AU	morning max el	1907 Dec 01 13:55	18°♏01'57	20°19'43
	1907 Jan 26 05:00	0°♏			1907 Dec 11 03:36	0°♊	
				desc. node	1907 Dec 22 06:13	16°♊19'49	
superior conj	1907 Feb 02 16:58	12°♏43'06	-2°04'37	morning set	1907 Dec 29 09:39	27°♊15'50	
minimum elong	1907 Feb 02 17:42	12°♏46'15	2°04'38		1907 Dec 31 03:57	0°♊	
	1907 Feb 12 08:38	0°♏		max. Earth dist.	1908 Jan 08 11:06	13°♊06'48	1.43559 AU
evening rise	1907 Feb 13 15:28	2°♏21'06					
asc. node	1907 Feb 22 23:50	18°♏54'00		superior conj	1908 Jan 14 11:44	22°♊55'42	-1°59'03
evening max el	1907 Mar 02 02:41	28°♏28'30	18°10'14	minimum elong	1908 Jan 14 07:16	22°♊37'14	1°58'51
	1907 Mar 03 20:52	0°♏			1908 Jan 18 17:22	0°♏	
retrograde	1907 Mar 08 22:19	1°♏55'19		evening rise	1908 Jan 27 02:04	14°♏22'34	
evening set	1907 Mar 11 12:56	1°♏25'38			1908 Feb 05 04:24	0°♏	
	1907 Mar 14 05:00	30°♏		asc. node	1908 Feb 09 20:52	7°♏08'53	
inferior conj	1907 Mar 18 07:59	26°♏34'52	3°24'09	evening max el	1908 Feb 13 14:56	11°♏39'35	18°09'19
minimum elong	1907 Mar 18 10:34	26°♏28'53	3°23'47	retrograde	1908 Feb 20 02:21	15°♏03'42	
min. Earth dist.	1907 Mar 21 15:19	23°♏33'40	0.60413 AU	evening set	1908 Feb 22 22:13	14°♏23'37	
morning rise	1907 Mar 25 06:08	20°♏48'01		inferior conj	1908 Feb 29 04:31	9°♏12'19	3°42'34
direct	1907 Mar 31 21:51	18°♏40'48		minimum elong	1908 Feb 29 05:06	9°♏10'48	3°42'33
desc. node	1907 Apr 02 08:23	18°♏46'31		min. Earth dist.	1908 Mar 03 00:00	6°♏16'28	0.62504 AU
morning max el	1907 Apr 15 04:24	26°♏32'22	27°36'08	morning rise	1908 Mar 06 10:51	3°♏12'31	
	1907 Apr 18 10:42	0°♏		direct	1908 Mar 13 09:32	0°♏37'07	
	1907 May 08 15:22	0°♏		desc. node	1908 Mar 19 05:26	2°♏11'59	
morning set	1907 May 17 03:47	16°♏33'12		morning max el	1908 Mar 27 09:42	8°♏32'24	27°49'12
asc. node	1907 May 21 23:06	26°♏46'13			1908 Apr 12 22:48	0°♏	
	1907 May 23 10:39	0°♏			1908 Apr 29 19:00	0°♏	
max. Earth dist.	1907 May 23 10:50	0°♏01'03	1.32234 AU	morning set	1908 Apr 30 05:25	0°♏52'38	
				max. Earth dist.	1908 May 05 19:05	12°♏30'57	1.32640 AU
superior conj	1907 May 24 08:57	2°♏02'16	0°25'15				
minimum elong	1907 May 24 07:50	1°♏56'08	0°25'00	superior conj	1908 May 07 18:16	16°♏45'32	-0°00'50
evening rise	1907 May 31 05:38	16°♏57'33		minimum elong	1908 May 07 18:18	16°♏45'45	0°00'50
	1907 Jun 06 16:43	0°♏		behind sun begin	1908 May 07 13:08	16°♏17'42	
	1907 Jun 27 08:05	0°♏		behind sun end	1908 May 07 23:29	17°♏13'49	
evening max el	1907 Jun 27 10:48	0°♏06'32	25°29'11	asc. node	1908 May 07 20:08	16°♏55'41	
desc. node	1907 Jun 29 07:37	1°♏47'46			1908 May 13 20:52	0°♏	
retrograde	1907 Jul 11 11:17	7°♏14'59		evening rise	1908 May 14 17:25	1°♏49'25	
evening set	1907 Jul 17 06:15	5°♏56'30			1908 May 30 04:34	0°♏	
min. Earth dist.	1907 Jul 21 22:55	3°♏15'08	0.58085 AU	evening max el	1908 Jun 08 01:09	10°♏46'11	23°58'48
inferior conj	1907 Jul 25 03:07	1°♏01'36	-4°57'46	desc. node	1908 Jun 15 04:39	16°♏01'58	
minimum elong	1907 Jul 25 03:12	1°♏01'26	4°57'46	retrograde	1908 Jun 21 19:46	17°♏41'34	
	1907 Jul 26 14:36	30°♏		evening set	1908 Jun 26 04:48	16°♏59'17	
morning rise	1907 Aug 02 02:37	26°♏44'02		min. Earth dist.	1908 Jul 02 11:52	13°♏57'17	0.56327 AU
direct	1907 Aug 04 15:18	26°♏24'14		inferior conj	1908 Jul 04 22:02	12°♏28'00	-4°36'55
	1907 Aug 12 16:20	0°♏		minimum elong	1908 Jul 04 16:46	12°♏36'08	4°36'11
morning max el	1907 Aug 13 03:15	0°♏25'07	18°50'37	morning rise	1908 Jul 13 07:23	8°♏28'59	
asc. node	1907 Aug 17 22:21	6°♏06'19		direct	1908 Jul 16 00:22	8°♏10'00	
morning set	1907 Aug 29 15:34	26°♏46'54		morning max el	1908 Jul 25 21:55	12°♏45'30	19°50'51
	1907 Aug 31 06:54	0°♏		asc. node	1908 Aug 03 19:22	24°♏25'14	
					1908 Aug 06 23:46	0°♏	
superior conj	1907 Sep 07 04:16	13°♏23'25	1°40'44	morning set	1908 Aug 12 18:37	11°♏15'58	
minimum elong	1907 Sep 07 06:20	13°♏33'18	1°40'37				
max. Earth dist.	1907 Sep 14 03:32	26°♏13'48	1.39162 AU	superior conj	1908 Aug 20 14:55	27°♏08'48	1°45'46
	1907 Sep 16 06:56	0°♏		minimum elong	1908 Aug 20 15:08	27°♏09'56	1°45'46

	1908 Aug 22 01:31	0°♎		max. Earth dist.	1909 Aug 08 18:19	20°♎05'29	1.35392 AU
max. Earth dist.	1908 Aug 26 08:09	8°♎14'06	1.37157 AU	evening rise	1909 Aug 13 00:03	28°♎18'59	
evening rise	1908 Aug 30 03:40	15°♎15'32			1909 Aug 13 21:32	0°♎	
	1908 Sep 07 18:14	0°♏		desc. node	1909 Aug 29 01:01	25°♎36'07	
desc. node	1908 Sep 11 03:58	5°♏25'51			1909 Sep 01 00:05	0°♏	
	1908 Sep 28 19:36	0°♍		evening max el	1909 Sep 17 11:01	20°♏20'41	26°34'14
evening max el	1908 Oct 04 22:56	6°♍42'58	25°33'48	retrograde	1909 Sep 30 08:34	27°♏34'07	
retrograde	1908 Oct 17 03:10	13°♍42'01		evening set	1909 Oct 06 21:42	24°♏53'13	
evening set	1908 Oct 23 02:45	11°♍11'52		min. Earth dist.	1909 Oct 10 23:29	20°♏40'30	0.66101 AU
min. Earth dist.	1908 Oct 27 11:52	6°♍22'37	0.67015 AU	inferior conj	1909 Oct 12 15:39	18°♏39'59	-1°41'20
inferior conj	1908 Oct 28 16:21	4°♍51'20	-0°43'15	minimum elong	1909 Oct 12 18:21	18°♏31'53	1°40'15
minimum elong	1908 Oct 28 17:27	4°♍47'45	0°42'46	asc. node	1909 Oct 17 15:40	13°♏33'04	
asc. node	1908 Oct 30 18:37	2°♍15'24		morning rise	1909 Oct 18 15:34	12°♏55'09	
	1908 Nov 01 22:44	30°♎♏		direct	1909 Oct 21 14:21	12°♏06'16	
morning rise	1908 Nov 03 08:24	28°♏55'31		morning max el	1909 Oct 28 06:12	15°♏45'38	18°32'28
direct	1908 Nov 06 16:32	27°♏51'14			1909 Nov 07 18:06	0°♍	
	1908 Nov 11 17:52	0°♍		morning set	1909 Nov 17 11:12	15°♍26'15	
morning max el	1908 Nov 13 18:53	1°♍50'38	19°18'16	desc. node	1909 Nov 25 00:17	27°♍26'58	
	1908 Dec 03 17:54	0°♎			1909 Nov 26 14:59	0°♎	
morning set	1908 Dec 07 10:36	5°♎43'50					
desc. node	1908 Dec 08 03:15	6°♎48'32		superior conj	1909 Dec 03 06:49	10°♎29'00	-0°53'26
max. Earth dist.	1908 Dec 21 01:56	27°♎03'35	1.44704 AU	minimum elong	1909 Dec 03 00:04	10°♎02'31	0°52'36
	1908 Dec 22 22:31	0°♏		max. Earth dist.	1909 Dec 03 20:24	11°♎22'22	1.45142 AU
					1909 Dec 15 16:33	0°♏	
superior conj	1908 Dec 24 04:53	2°♏00'36	-1°34'47	evening rise	1909 Dec 19 06:16	5°♏39'22	
minimum elong	1908 Dec 23 20:15	1°♏26'16	1°33'59	greatest brilliancy	1909 Dec 28 08:16	20°♏02'28	-0.8m
evening rise	1909 Jan 07 15:52	25°♏29'47			1910 Jan 03 21:27	0°♏	
	1909 Jan 10 09:00	0°♏		evening max el	1910 Jan 10 13:15	8°♏28'25	19°02'33
asc. node	1909 Jan 26 17:55	24°♏37'14		asc. node	1910 Jan 13 14:59	11°♏05'16	
evening max el	1909 Jan 27 03:18	25°♏01'32	18°27'04	retrograde	1910 Jan 17 10:53	12°♏23'37	
retrograde	1909 Feb 02 15:51	28°♏35'46		evening set	1910 Jan 20 18:14	11°♏20'11	
evening set	1909 Feb 05 17:01	27°♏44'29		inferior conj	1910 Jan 26 09:03	5°♏33'08	3°23'18
inferior conj	1909 Feb 11 14:07	22°♏14'09	3°40'29	minimum elong	1910 Jan 26 06:53	5°♏39'59	3°22'56
minimum elong	1909 Feb 11 13:00	22°♏17'22	3°40'24	min. Earth dist.	1910 Jan 27 21:55	3°♏36'56	0.65792 AU
min. Earth dist.	1909 Feb 13 18:18	19°♏42'36	0.64334 AU		1910 Jan 31 02:44	30°♎♏	
morning rise	1909 Feb 17 08:26	16°♏06'51		morning rise	1910 Jan 31 19:14	29°♏21'41	
direct	1909 Feb 24 04:54	13°♏17'02		direct	1910 Feb 07 06:52	26°♏31'23	
desc. node	1909 Mar 06 02:28	17°♏46'59			1910 Feb 15 13:10	0°♏	
morning max el	1909 Mar 09 18:45	21°♏08'30	27°26'07	morning max el	1910 Feb 20 04:41	4°♏08'13	26°32'38
	1909 Mar 17 11:31	0°♎		desc. node	1910 Feb 20 23:30	4°♏56'23	
	1909 Apr 06 01:27	0°♎			1910 Mar 11 21:34	0°♎	
morning set	1909 Apr 13 23:06	14°♎44'41		morning set	1910 Mar 28 05:17	27°♎58'26	
max. Earth dist.	1909 Apr 18 19:50	24°♎34'18	1.33470 AU		1910 Mar 29 06:52	0°♎	
	1909 Apr 21 10:00	0°♏		max. Earth dist.	1910 Apr 01 09:38	6°♎03'42	1.34747 AU
superior conj	1909 Apr 21 23:39	1°♏12'25	-0°28'24	superior conj	1910 Apr 05 22:52	15°♎15'58	-0°56'17
minimum elong	1909 Apr 22 01:05	1°♏19'57	0°28'06	minimum elong	1910 Apr 06 01:42	15°♎30'34	0°55'45
asc. node	1909 Apr 24 17:12	7°♏02'19		asc. node	1910 Apr 11 14:16	27°♎01'49	
evening rise	1909 Apr 29 04:46	16°♏35'23			1910 Apr 13 00:28	0°♏	
	1909 May 05 21:46	0°♏		evening rise	1910 Apr 13 13:44	1°♏08'46	
evening max el	1909 May 20 16:29	21°♏15'52	22°22'44		1910 Apr 30 15:53	0°♏	
desc. node	1909 Jun 02 01:42	27°♏40'40		evening max el	1910 May 02 16:08	2°♏06'40	20°54'54
retrograde	1909 Jun 02 16:03	27°♏41'29		retrograde	1910 May 14 05:30	7°♏44'19	
evening set	1909 Jun 05 15:33	27°♏21'53		evening set	1910 May 16 09:26	7°♏33'13	
min. Earth dist.	1909 Jun 13 23:18	23°♏46'22	0.55190 AU	desc. node	1910 May 19 22:42	6°♏31'24	
inferior conj	1909 Jun 14 23:20	23°♏12'25	-3°28'38	inferior conj	1910 May 25 17:07	3°♏35'11	-1°40'11
minimum elong	1909 Jun 14 15:26	23°♏23'35	3°26'28	minimum elong	1910 May 25 12:24	3°♏41'53	1°38'29
morning rise	1909 Jun 23 17:20	19°♏20'32		min. Earth dist.	1910 May 26 11:46	3°♏08'41	0.54933 AU
direct	1909 Jun 26 16:25	19°♏00'40			1910 Jun 01 23:39	30°♎♏	
morning max el	1909 Jul 08 05:14	24°♏22'46	21°11'33	morning rise	1910 Jun 03 15:09	29°♏30'54	
	1909 Jul 13 06:04	0°♏		direct	1910 Jun 07 01:50	29°♏05'18	
asc. node	1909 Jul 21 16:25	13°♏21'14			1910 Jun 12 00:14	0°♏	
morning set	1909 Jul 28 02:30	26°♏00'02		morning max el	1910 Jun 20 02:24	5°♏19'38	22°47'56
	1909 Jul 30 00:39	0°♏			1910 Jul 07 03:28	0°♏	
				asc. node	1910 Jul 08 13:29	2°♏45'09	
superior conj	1909 Aug 04 11:59	11°♏25'55	1°42'59	morning set	1910 Jul 12 13:16	10°♏53'34	
minimum elong	1909 Aug 04 10:47	11°♏19'43	1°42'56				

superior conj	1910 Jul 19 16:13	26° Ω 04'58	1°33'54	morning set	1911 Jun 27 01:06	25° Π 50'04	
minimum elong	1910 Jul 19 14:08	25° Ω 53'55	1°33'43		1911 Jun 28 23:59	0° Ω	
	1910 Jul 21 12:38	0° Ω					
max. Earth dist.	1910 Jul 22 13:22	2° Ω 09'26	1.33992 AU	superior conj	1911 Jul 04 00:55	10° Ω 56'32	1°19'41
evening rise	1910 Jul 27 10:45	12° Ω 05'01		minimum elong	1911 Jul 03 22:30	10° Ω 43'27	1°19'20
	1910 Aug 06 04:37	0° Π		max. Earth dist.	1911 Jul 05 17:06	14° Ω 34'01	1.32998 AU
desc. node	1910 Aug 15 22:02	15° Π 21'56		evening rise	1911 Jul 11 07:46	26° Ω 21'09	
	1910 Aug 27 06:42	0° Ω			1911 Jul 13 03:20	0° Ω	
evening max el	1910 Aug 30 23:01	3° Ω 48'03	27°13'46		1911 Jul 30 13:41	0° Π	
retrograde	1910 Sep 13 08:36	11° Ω 06'51		desc. node	1911 Aug 02 19:03	4° Π 32'04	
evening set	1910 Sep 20 08:16	8° Ω 23'00		evening max el	1911 Aug 13 09:24	16° Π 52'41	27°25'49
min. Earth dist.	1910 Sep 24 03:29	4° Ω 46'15	0.64832 AU	retrograde	1911 Aug 27 02:25	24° Π 10'20	
inferior conj	1910 Sep 26 08:09	2° Ω 21'13	-2°39'26	evening set	1911 Sep 03 07:13	21° Π 34'41	
minimum elong	1910 Sep 26 12:21	2° Ω 09'37	2°37'56	min. Earth dist.	1911 Sep 06 22:01	18° Π 29'44	0.63216 AU
	1910 Sep 28 13:20	30° \mathbb{R} Π		inferior conj	1911 Sep 09 15:08	15° Π 48'21	-3°34'29
morning rise	1910 Oct 02 17:23	26° Π 50'23		minimum elong	1911 Sep 09 20:21	15° Π 35'23	3°32'58
asc. node	1910 Oct 04 12:42	26° Π 16'58		morning rise	1911 Sep 16 10:48	10° Π 34'39	
direct	1910 Oct 05 09:16	26° Π 13'04		direct	1911 Sep 18 22:23	10° Π 05'25	
morning max el	1910 Oct 11 21:23	29° Π 41'39	18°03'20	asc. node	1911 Sep 21 09:44	10° Π 35'03	
	1910 Oct 12 04:36	0° Ω		morning max el	1911 Sep 25 13:32	13° Π 31'17	17°51'45
morning set	1910 Oct 29 16:57	26° Ω 34'49			1911 Oct 06 20:49	0° Ω	
	1910 Oct 31 18:09	0° \mathbb{M}		morning set	1911 Oct 11 23:22	8° Ω 54'28	
desc. node	1910 Nov 11 21:20	18° \mathbb{M} 11'41					
				superior conj	1911 Oct 23 20:57	29° Ω 20'05	0°39'20
superior conj	1910 Nov 12 14:33	19° \mathbb{M} 20'35	-0°04'51	minimum elong	1911 Oct 24 00:42	29° Ω 35'40	0°38'49
minimum elong	1910 Nov 12 13:57	19° \mathbb{M} 18'10	0°04'45		1911 Oct 24 06:33	0° \mathbb{M}	
behind sun begin	1910 Nov 12 03:43	18° \mathbb{M} 37'15		desc. node	1911 Oct 29 18:22	8° \mathbb{M} 58'56	
behind sun end	1910 Nov 13 00:11	19° \mathbb{M} 59'02		max. Earth dist.	1911 Oct 30 07:31	9° \mathbb{M} 51'54	1.43843 AU
max. Earth dist.	1910 Nov 16 15:08	25° \mathbb{M} 44'02	1.44840 AU	evening rise	1911 Nov 08 08:04	24° \mathbb{M} 03'58	
	1910 Nov 19 08:12	0° \mathbb{X}			1911 Nov 12 04:56	0° \mathbb{X}	
evening rise	1910 Nov 28 23:54	15° \mathbb{X} 00'55			1911 Dec 03 01:44	0° \mathbb{Z}	
	1910 Dec 08 18:22	0° \mathbb{Z}		evening max el	1911 Dec 07 19:18	5° \mathbb{Z} 28'30	20°59'28
greatest brilliancy	1910 Dec 12 17:55	5° \mathbb{Z} 58'56	-0.7m	retrograde	1911 Dec 16 06:10	10° \mathbb{Z} 29'00	
evening max el	1910 Dec 24 18:58	21° \mathbb{Z} 57'50	19°54'11	asc. node	1911 Dec 18 09:01	10° \mathbb{Z} 03'58	
asc. node	1910 Dec 31 12:00	26° \mathbb{Z} 18'34		evening set	1911 Dec 20 06:48	8° \mathbb{Z} 56'59	
retrograde	1911 Jan 01 08:26	26° \mathbb{Z} 22'36		inferior conj	1911 Dec 25 15:40	2° \mathbb{Z} 45'02	2°17'36
evening set	1911 Jan 04 23:29	25° \mathbb{Z} 05'41		minimum elong	1911 Dec 25 13:09	2° \mathbb{Z} 53'41	2°16'47
inferior conj	1911 Jan 10 10:23	19° \mathbb{Z} 04'40	2°54'50	min. Earth dist.	1911 Dec 26 02:00	2° \mathbb{Z} 09'29	0.67509 AU
minimum elong	1911 Jan 10 07:46	19° \mathbb{Z} 13'23	2°54'10		1911 Dec 27 16:35	30° \mathbb{R} \mathbb{X}	
min. Earth dist.	1911 Jan 11 09:15	17° \mathbb{Z} 48'29	0.66847 AU	morning rise	1911 Dec 30 19:18	26° \mathbb{X} 31'58	
morning rise	1911 Jan 15 15:49	12° \mathbb{Z} 51'25		direct	1912 Jan 05 03:33	24° \mathbb{X} 11'23	
direct	1911 Jan 21 14:44	10° \mathbb{Z} 12'07			1912 Jan 15 07:15	0° \mathbb{Z}	
morning max el	1911 Feb 02 13:37	17° \mathbb{Z} 19'48	25°17'34	morning max el	1912 Jan 15 21:59	0° \mathbb{Z} 36'37	23°51'10
desc. node	1911 Feb 07 20:33	23° \mathbb{Z} 13'22		desc. node	1912 Jan 25 17:35	12° \mathbb{Z} 18'19	
	1911 Feb 13 04:03	0° \approx			1912 Feb 07 02:24	0° \approx	
	1911 Mar 04 21:14	0° \mathbb{H}		morning set	1912 Feb 20 10:52	21° \approx 33'42	
morning set	1911 Mar 10 19:13	10° \mathbb{H} 20'17		max. Earth dist.	1912 Feb 24 07:04	28° \approx 15'27	1.38527 AU
max. Earth dist.	1911 Mar 14 11:46	17° \mathbb{H} 07'15	1.36470 AU		1912 Feb 25 06:32	0° \mathbb{H}	
superior conj	1911 Mar 20 13:06	28° \mathbb{H} 48'31	-1°22'46	superior conj	1912 Mar 02 14:44	11° \mathbb{H} 40'43	-1°45'25
minimum elong	1911 Mar 20 17:04	29° \mathbb{H} 08'09	1°22'11	minimum elong	1912 Mar 02 18:57	12° \mathbb{H} 00'40	1°45'01
	1911 Mar 21 03:30	0° \mathbb{Y}		evening rise	1912 Mar 11 15:27	29° \mathbb{H} 11'17	
evening rise	1911 Mar 28 18:09	15° \mathbb{Y} 23'01			1912 Mar 12 01:26	0° \mathbb{Y}	
asc. node	1911 Mar 29 11:20	16° \mathbb{Y} 49'33		asc. node	1912 Mar 15 08:22	6° \mathbb{Y} 20'34	
	1911 Apr 05 09:04	0° \mathbb{B}		evening max el	1912 Mar 28 01:47	25° \mathbb{Y} 43'27	18°51'22
evening max el	1911 Apr 15 03:32	13° \mathbb{B} 35'30	19°43'24	retrograde	1912 Apr 05 08:26	29° \mathbb{Y} 44'48	
retrograde	1911 Apr 24 23:09	18° \mathbb{B} 19'49		evening set	1912 Apr 07 13:59	29° \mathbb{Y} 28'25	
evening set	1911 Apr 26 23:54	18° \mathbb{B} 08'33		inferior conj	1912 Apr 15 12:30	25° \mathbb{Y} 09'59	1°56'50
inferior conj	1911 May 05 17:50	14° \mathbb{B} 06'19	0°18'43	minimum elong	1912 Apr 15 16:19	25° \mathbb{Y} 03'04	1°55'42
minimum elong	1911 May 05 18:39	14° \mathbb{B} 05'02	0°18'25	min. Earth dist.	1912 Apr 18 18:14	22° \mathbb{Y} 50'35	0.57172 AU
desc. node	1911 May 06 19:45	13° \mathbb{B} 25'46		desc. node	1912 Apr 22 16:46	20° \mathbb{Y} 28'31	
min. Earth dist.	1911 May 08 01:54	12° \mathbb{B} 39'07	0.55646 AU	morning rise	1912 Apr 23 15:32	20° \mathbb{Y} 02'26	
morning rise	1911 May 14 10:53	9° \mathbb{B} 32'38		direct	1912 Apr 29 00:53	18° \mathbb{Y} 52'19	
direct	1911 May 18 18:36	8° \mathbb{B} 51'01		morning max el	1912 May 13 08:33	26° \mathbb{Y} 20'22	26°02'51
morning max el	1911 Jun 01 17:31	15° \mathbb{B} 50'03	24°29'55		1912 May 16 19:54	0° \mathbb{B}	
	1911 Jun 13 01:26	0° Π			1912 Jun 05 05:10	0° Π	
asc. node	1911 Jun 25 10:33	22° Π 28'45		morning set	1912 Jun 10 12:24	10° Π 44'19	

asc. node	1912 Jun 11 07:37	12° Π 26'02		morning set	1913 May 25 21:31	25° \mathcal{B} 30'27	
					1913 May 28 00:30	0° Π	
superior conj	1912 Jun 17 12:02	25° Π 53'40	1°01'12	asc. node	1913 May 29 04:40	2° Π 31'33	
minimum elong	1912 Jun 17 09:48	25° Π 41'21	1°00'48				
max. Earth dist.	1912 Jun 18 02:58	27° Π 15'36	1.32404 AU	superior conj	1913 Jun 01 23:49	10° Π 50'02	0°39'13
	1912 Jun 19 09:00	0° \mathcal{E}		minimum elong	1913 Jun 01 22:10	10° Π 41'01	0°38'53
evening rise	1912 Jun 24 11:54	10° \mathcal{E} 57'30		max. Earth dist.	1913 Jun 01 15:21	10° Π 03'25	1.32189 AU
	1912 Jul 04 09:00	0° \mathcal{Q}		evening rise	1913 Jun 08 20:39	25° Π 45'30	
desc. node	1912 Jul 19 16:03	22° \mathcal{Q} 51'44			1913 Jun 10 21:31	0° \mathcal{E}	
evening max el	1912 Jul 25 15:41	29° \mathcal{Q} 21'31	27°05'35		1913 Jun 28 05:37	0° \mathcal{Q}	
	1912 Jul 26 08:13	0° \mathcal{M}		desc. node	1913 Jul 06 13:04	10° \mathcal{Q} 00'10	
retrograde	1912 Aug 08 12:58	6° \mathcal{M} 35'32		evening max el	1913 Jul 07 15:17	11° \mathcal{Q} 04'26	26°12'30
evening set	1912 Aug 15 14:28	4° \mathcal{M} 21'09		retrograde	1913 Jul 21 15:03	18° \mathcal{Q} 15'24	
min. Earth dist.	1912 Aug 19 05:58	1° \mathcal{M} 38'25	0.61312 AU	evening set	1913 Jul 28 01:19	16° \mathcal{Q} 34'12	
	1912 Aug 21 03:22	30° \mathcal{R} \mathcal{Q}		min. Earth dist.	1913 Aug 01 04:00	13° \mathcal{Q} 58'02	0.59250 AU
inferior conj	1912 Aug 22 09:26	28° \mathcal{Q} 53'30	-4°21'26	inferior conj	1913 Aug 04 11:27	11° \mathcal{Q} 27'11	-4°52'07
minimum elong	1912 Aug 22 14:26	28° \mathcal{Q} 42'30	4°20'27	minimum elong	1913 Aug 04 14:05	11° \mathcal{Q} 22'09	4°51'54
morning rise	1912 Aug 29 16:04	24° \mathcal{Q} 00'16		morning rise	1913 Aug 12 04:58	6° \mathcal{Q} 56'53	
direct	1912 Sep 01 02:11	23° \mathcal{Q} 36'10		direct	1913 Aug 14 16:14	6° \mathcal{Q} 35'54	
asc. node	1912 Sep 07 06:48	26° \mathcal{Q} 19'30		morning max el	1913 Aug 22 12:38	10° \mathcal{Q} 22'13	18°25'46
morning max el	1912 Sep 08 03:38	27° \mathcal{Q} 07'26	17°58'47	asc. node	1913 Aug 25 03:51	13° \mathcal{Q} 15'56	
	1912 Sep 10 17:07	0° \mathcal{M}			1913 Sep 04 10:58	0° \mathcal{M}	
morning set	1912 Sep 24 00:12	22° \mathcal{M} 06'55		morning set	1913 Sep 07 14:14	5° \mathcal{M} 57'44	
	1912 Sep 28 07:27	0° \mathcal{Q}					
superior conj	1912 Oct 04 06:28	10° \mathcal{Q} 39'17	1°12'31	superior conj	1913 Sep 16 15:31	23° \mathcal{M} 08'37	1°33'35
minimum elong	1912 Oct 04 10:59	10° \mathcal{Q} 59'03	1°11'59	minimum elong	1913 Sep 16 18:42	23° \mathcal{M} 23'17	1°33'19
max. Earth dist.	1912 Oct 11 19:39	23° \mathcal{Q} 30'55	1.42279 AU		1913 Sep 20 10:03	0° \mathcal{Q}	
desc. node	1912 Oct 15 15:21	29° \mathcal{Q} 45'25		max. Earth dist.	1913 Sep 24 02:37	6° \mathcal{Q} 29'12	1.40341 AU
	1912 Oct 15 18:58	0° \mathcal{M}		evening rise	1913 Sep 28 12:24	13° \mathcal{Q} 56'56	
evening rise	1912 Oct 17 23:55	3° \mathcal{M} 31'33		desc. node	1913 Oct 02 12:22	20° \mathcal{Q} 28'05	
	1912 Nov 04 14:46	0° \mathcal{M}			1913 Oct 08 14:53	0° \mathcal{M}	
evening max el	1912 Nov 19 14:06	19° \mathcal{M} 00'03	22°14'33	evening max el	1913 Oct 30 18:07	0° \mathcal{M}	
retrograde	1912 Nov 29 02:15	24° \mathcal{M} 39'14		retrograde	1913 Nov 02 04:35	2° \mathcal{M} 34'18	23°34'16
evening set	1912 Dec 03 14:24	22° \mathcal{M} 50'38		evening set	1913 Nov 12 19:28	8° \mathcal{M} 50'46	
asc. node	1912 Dec 04 06:03	22° \mathcal{M} 16'30		asc. node	1913 Nov 17 20:43	6° \mathcal{M} 44'59	
inferior conj	1912 Dec 08 22:50	16° \mathcal{M} 31'05	1°33'21	inferior conj	1913 Nov 21 03:04	3° \mathcal{M} 12'36	
minimum elong	1912 Dec 08 20:52	16° \mathcal{M} 37'53	1°32'36	minimum elong	1913 Nov 23 06:07	0° \mathcal{M} 21'34	0°43'32
min. Earth dist.	1912 Dec 08 21:50	16° \mathcal{M} 34'30	0.67805 AU	min. Earth dist.	1913 Nov 23 05:07	0° \mathcal{M} 25'01	0°43'06
morning rise	1912 Dec 14 03:12	10° \mathcal{M} 20'03			1913 Nov 22 18:28	1° \mathcal{M} 01'24	0.67761 AU
direct	1912 Dec 18 20:24	8° \mathcal{M} 21'58		morning rise	1913 Nov 23 12:26	30° \mathcal{R} \mathcal{M}	
morning max el	1912 Dec 28 08:48	13° \mathcal{M} 58'55	22°23'10	direct	1913 Nov 28 13:28	24° \mathcal{M} 14'33	
	1913 Jan 10 05:20	0° \mathcal{B}		morning max el	1913 Dec 02 16:26	22° \mathcal{M} 39'17	
desc. node	1913 Jan 11 14:36	1° \mathcal{B} 56'57			1913 Dec 11 01:40	27° \mathcal{M} 31'20	21°01'34
	1913 Jan 30 01:44	0° \approx		desc. node	1913 Dec 13 08:50	0° \mathcal{M}	
morning set	1913 Jan 30 22:23	1° \approx 23'47			1913 Dec 29 11:37	22° \mathcal{M} 00'14	
max. Earth dist.	1913 Feb 05 03:48	10° \approx 03'59	1.40678 AU	morning set	1914 Jan 03 19:20	0° \mathcal{B}	
				max. Earth dist.	1914 Jan 10 06:25	9° \mathcal{B} 58'16	
superior conj	1913 Feb 12 23:00	23° \approx 39'41	-2°00'49		1914 Jan 18 07:10	22° \mathcal{B} 47'46	1.42629 AU
minimum elong	1913 Feb 13 01:44	23° \approx 51'54	2°00'43		1914 Jan 22 15:51	0° \approx	
	1913 Feb 16 10:43	0° \mathcal{H}		superior conj	1914 Jan 25 08:40	4° \approx 33'22	-2°04'22
evening rise	1913 Feb 23 02:24	12° \mathcal{H} 24'44		minimum elong	1914 Jan 25 07:22	4° \approx 27'53	2°04'21
asc. node	1913 Mar 02 05:23	25° \mathcal{H} 28'10		evening rise	1914 Feb 05 23:09	24° \approx 55'14	
	1913 Mar 04 22:35	0° \mathcal{Y}			1914 Feb 08 19:11	0° \mathcal{H}	
evening max el	1913 Mar 11 07:55	8° \mathcal{Y} 22'23	18°19'28	asc. node	1914 Feb 17 02:25	14° \mathcal{H} 04'57	
retrograde	1913 Mar 18 12:57	11° \mathcal{Y} 57'21		evening max el	1914 Feb 22 18:46	21° \mathcal{H} 23'53	18°07'26
evening set	1913 Mar 21 00:26	11° \mathcal{Y} 32'59		retrograde	1914 Mar 01 09:48	24° \mathcal{H} 48'12	
inferior conj	1913 Mar 28 04:28	6° \mathcal{Y} 53'52	3°01'31	evening set	1914 Mar 04 02:37	24° \mathcal{H} 14'16	
minimum elong	1913 Mar 28 08:02	6° \mathcal{Y} 46'19	3°00'48	inferior conj	1914 Mar 10 15:45	19° \mathcal{H} 14'24	3°34'53
min. Earth dist.	1913 Mar 31 14:49	4° \mathcal{Y} 01'06	0.59180 AU	minimum elong	1914 Mar 10 17:29	19° \mathcal{H} 10'09	3°34'43
morning rise	1913 Apr 04 13:07	1° \mathcal{Y} 18'29		min. Earth dist.	1914 Mar 13 18:38	16° \mathcal{H} 12'45	0.61321 AU
	1913 Apr 07 15:02	30° \mathcal{R} \mathcal{H}		morning rise	1914 Mar 17 06:43	13° \mathcal{H} 20'51	
desc. node	1913 Apr 09 13:48	29° \mathcal{H} 36'29		direct	1914 Mar 24 02:24	11° \mathcal{H} 00'28	
direct	1913 Apr 10 20:05	29° \mathcal{H} 32'14		desc. node	1914 Mar 27 10:50	11° \mathcal{H} 31'45	
	1913 Apr 14 02:48	0° \mathcal{Y}		morning max el	1914 Apr 07 07:01	18° \mathcal{H} 54'41	27°46'21
morning max el	1913 Apr 25 04:33	7° \mathcal{Y} 17'08	27°11'47		1914 Apr 16 16:05	0° \mathcal{Y}	
	1913 May 12 06:15	0° \mathcal{B}			1914 May 05 00:58	0° \mathcal{B}	

morning set	1914 May 10 02:33	10°8'02.07		desc. node	1915 Mar 14 07:52	25°56'32	
max. Earth dist.	1914 May 16 02:16	22°8'44.00	1.32358 AU		1915 Mar 19 08:45	0°8'	
asc. node	1914 May 16 01:42	22°8'40.53		morning max el	1915 Mar 20 14:21	1°8'11.47	27°43'34
					1915 Apr 10 19:22	0°9'	
superior conj	1914 May 17 10:33	25°8'39.56	0°14'26	morning set	1915 Apr 24 01:15	24°9'11.50	
minimum elong	1914 May 17 09:53	25°8'36.20	0°14'17		1915 Apr 26 21:40	0°8'	
behind sun begin	1914 May 17 07:39	25°8'24.10		max. Earth dist.	1915 Apr 29 07:43	5°8'03.52	1.32931 AU
behind sun end	1914 May 17 12:06	25°8'48.30					
	1914 May 19 10:03	0°11'		superior conj	1915 May 01 18:29	10°8'17.39	-0°12'24
evening rise	1914 May 24 07:53	10°11'37.53		minimum elong	1915 May 01 19:05	10°8'20.54	0°12'16
	1914 Jun 03 05:53	0°8'		behind sun begin	1915 May 01 15:42	10°8'02.39	
evening max el	1914 Jun 19 07:50	22°8'01.59	24°52'20	behind sun end	1915 May 01 22:29	10°8'39.10	
desc. node	1914 Jun 23 10:06	25°8'28.13		asc. node	1915 May 02 22:45	12°8'50.05	
retrograde	1914 Jul 03 06:58	29°8'07.05		evening rise	1915 May 08 19:44	25°8'28.24	
evening set	1914 Jul 08 12:31	28°8'04.45			1915 May 10 23:47	0°11'	
min. Earth dist.	1914 Jul 13 19:12	25°8'16.26	0.57280 AU		1915 May 29 10:34	0°8'	
inferior conj	1914 Jul 16 18:01	23°8'19.32	-4°54'16	evening max el	1915 May 31 21:40	2°8'34.11	23°17'48
minimum elong	1914 Jul 16 15:51	23°8'23.09	4°54'09	desc. node	1915 Jun 10 07:08	8°8'40.51	
morning rise	1914 Jul 24 21:52	19°8'11.10		retrograde	1915 Jun 14 10:38	9°8'19.58	
direct	1914 Jul 27 12:10	18°8'51.56		evening set	1915 Jun 18 04:08	8°8'49.28	
morning max el	1914 Aug 05 13:23	23°8'05.37	19°13'43	min. Earth dist.	1915 Jun 25 07:32	5°8'34.32	0.55744 AU
	1914 Aug 11 06:30	0°9'		inferior conj	1915 Jun 27 04:51	4°8'27.48	-4°14'00
asc. node	1914 Aug 12 00:54	1°9'08.43		minimum elong	1915 Jun 26 21:50	4°8'38.10	4°12'36
morning set	1914 Aug 22 13:24	20°9'15.09		morning rise	1915 Jul 05 18:07	0°8'33.36	
	1914 Aug 27 10:46	0°10'		direct	1915 Jul 08 13:03	0°8'14.43	
				morning max el	1915 Jul 19 03:28	5°8'09.16	20°22'47
superior conj	1914 Aug 30 18:21	6°10'30.49	1°43'55	asc. node	1915 Jul 29 21:58	19°8'45.11	
minimum elong	1914 Aug 30 19:36	6°10'36.56	1°43'53		1915 Aug 04 09:00	0°9'	
max. Earth dist.	1914 Sep 06 06:11	18°10'44.25	1.38285 AU	morning set	1915 Aug 06 18:48	4°9'51.34	
evening rise	1914 Sep 10 01:02	25°10'29.39					
	1914 Sep 12 15:46	0°12'		superior conj	1915 Aug 14 09:57	20°9'31.32	1°45'26
desc. node	1914 Sep 19 09:25	11°12'02.24		minimum elong	1915 Aug 14 09:30	20°9'29.17	1°45'26
	1914 Oct 02 05:54	0°13'			1915 Aug 19 04:38	0°10'	
evening max el	1914 Oct 15 16:45	16°13'11.49	24°52'24	max. Earth dist.	1915 Aug 19 12:09	0°10'36.16	1.36368 AU
retrograde	1914 Oct 27 08:47	22°13'58.58		evening rise	1915 Aug 23 11:12	8°10'04.00	
evening set	1914 Nov 02 00:07	20°13'36.54			1915 Sep 05 09:02	0°12'	
min. Earth dist.	1914 Nov 06 13:33	15°13'27.15	0.67382 AU	desc. node	1915 Sep 06 06:27	1°12'23.16	
inferior conj	1914 Nov 07 11:47	14°13'13.49	-0°10'37	evening max el	1915 Sep 28 04:45	29°12'51.42	26°01'35
minimum elong	1914 Nov 07 12:03	14°13'12.57	0°10'31		1915 Sep 28 08:11	0°13'	
transit middle	1914 Nov 07 12:03	14°13'12.57	0°10'31	retrograde	1915 Oct 10 17:22	6°13'58.37	
transit begin	1914 Nov 07 09:57	14°13'19.54		evening set	1915 Oct 16 22:45	4°13'23.21	
transit end	1914 Nov 07 14:09	14°13'06.00		min. Earth dist.	1915 Oct 21 04:42	29°12'49.16	0.66668 AU
asc. node	1914 Nov 08 00:06	13°13'33.15			1915 Oct 21 01:14	30°13'12.16	
morning rise	1914 Nov 13 00:08	8°13'13.04		inferior conj	1915 Oct 22 14:00	28°12'05.07	-1°07'44
direct	1914 Nov 16 14:27	6°13'58.31		minimum elong	1915 Oct 22 15:47	27°12'59.33	1°07'00
morning max el	1914 Nov 24 02:16	11°13'14.29	19°51'44	asc. node	1915 Oct 25 21:10	24°12'15.26	
	1914 Dec 08 04:53	0°14'		morning rise	1915 Oct 28 09:12	22°12'13.22	
desc. node	1914 Dec 16 08:40	12°14'20.57		direct	1915 Oct 31 13:00	21°12'16.09	
morning set	1914 Dec 20 02:23	18°14'06.09		morning max el	1915 Nov 07 10:08	25°12'06.10	18°56'41
	1914 Dec 27 17:40	0°15'			1915 Nov 11 14:08	0°13'	
max. Earth dist.	1914 Dec 31 17:37	6°15'19.29	1.44122 AU	morning set	1915 Nov 29 11:37	27°13'00.49	
					1915 Dec 01 09:18	0°14'	
superior conj	1915 Jan 05 16:02	14°15'15.04	-1°51'08	desc. node	1915 Dec 03 05:42	2°14'54.09	
minimum elong	1915 Jan 05 09:20	13°15'47.54	1°50'41	max. Earth dist.	1915 Dec 14 09:51	20°14'25.49	1.44981 AU
	1915 Jan 15 04:28	0°16'					
evening rise	1915 Jan 19 01:21	6°16'34.11		superior conj	1915 Dec 16 00:38	22°14'58.32	-1°18'54
	1915 Feb 02 10:33	0°17'		minimum elong	1915 Dec 15 15:57	22°14'24.18	1°17'58
asc. node	1915 Feb 03 23:26	2°17'01.30			1915 Dec 20 11:14	0°18'	
evening max el	1915 Feb 06 07:20	4°17'40.04	18°14'39	evening rise	1915 Dec 31 05:13	17°17'15.57	
retrograde	1915 Feb 12 18:23	8°17'07.21			1916 Jan 08 01:22	0°19'	
evening set	1915 Feb 15 16:19	7°17'22.47		evening max el	1916 Jan 20 18:58	18°17'04.39	18°40'10
inferior conj	1915 Feb 21 18:20	2°17'03.19	3°43'50	asc. node	1916 Jan 21 20:28	19°17'05.51	
minimum elong	1915 Feb 21 18:08	2°17'03.53	3°43'49	retrograde	1916 Jan 27 10:28	21°17'46.25	
	1915 Feb 23 15:04	30°17'33.33		evening set	1916 Jan 30 14:08	20°17'50.09	
min. Earth dist.	1915 Feb 24 07:35	29°17'15.36	0.63317 AU	inferior conj	1916 Feb 05 08:16	15°17'12.44	3°34'45
morning rise	1915 Feb 27 19:02	25°17'59.34		minimum elong	1916 Feb 05 06:37	15°17'17.41	3°34'34
direct	1915 Mar 06 17:41	23°17'55.58		min. Earth dist.	1916 Feb 07 05:57	12°17'55.02	0.65004 AU

morning rise	1916 Feb 10 22:40	9°  03'28		morning rise	1917 Jan 24 14:02	22°  25'24	
direct	1916 Feb 17 16:11	6°  11'29		direct	1917 Jan 30 20:43	19°  38'39	
desc. node	1916 Feb 29 04:55	12°  15'05		morning max el	1917 Feb 12 09:16	27°  04'00	26°02'45
morning max el	1916 Mar 01 23:49	13°  58'27	27°06'35	desc. node	1917 Feb 15 01:56	29°  56'04	
	1916 Mar 15 00:08	0°  ✕			1917 Feb 15 03:21	0°  ≈	
	1916 Apr 02 11:00	0°  Y			1917 Mar 08 15:34	0°  ✕	
morning set	1916 Apr 06 14:29	7°  Y48'46		morning set	1917 Mar 20 14:19	20°  ✕41'45	
max. Earth dist.	1916 Apr 11 03:49	16°  Y51'29	1.33951 AU	max. Earth dist.	1917 Mar 24 12:29	28°  ✕07'40	1.35435 AU
					1917 Mar 25 11:35	0°  Y	
superior conj	1916 Apr 14 21:32	24°  Y35'31	-0°40'16	superior conj	1917 Mar 29 17:17	8°  Y26'48	-1°07'48
minimum elong	1916 Apr 14 23:33	24°  Y46'10	0°39'51	minimum elong	1917 Mar 29 20:39	8°  Y43'56	1°07'14
	1916 Apr 17 10:59	0°  8					
asc. node	1916 Apr 18 19:48	2°  854'07		asc. node	1917 Apr 05 16:50	22°  Y49'02	
evening rise	1916 Apr 22 06:16	10°  809'30		evening rise	1917 Apr 06 13:33	24°  Y35'28	
	1916 May 02 16:13	0°  II			1917 Apr 09 05:43	0°  8	
evening max el	1916 May 12 15:58	13°  II10'14	21°43'52	evening max el	1917 Apr 24 20:26	24°  815'32	20°22'08
retrograde	1916 May 25 02:33	19°  II16'31		retrograde	1917 May 05 15:47	29°  829'47	
desc. node	1916 May 27 04:10	19°  II06'52		evening set	1917 May 07 17:04	29°  819'14	
evening set	1916 May 27 15:30	19°  II02'02		desc. node	1917 May 14 01:10	26°  856'03	
inferior conj	1916 Jun 06 01:20	14°  II59'46	-2°46'14	inferior conj	1917 May 16 20:08	25°  821'10	-0°48'49
minimum elong	1916 Jun 05 18:08	15°  II09'50	2°43'57	minimum elong	1917 May 16 17:50	25°  824'31	0°47'59
min. Earth dist.	1916 Jun 05 19:22	15°  II08'06	0.54964 AU	min. Earth dist.	1917 May 18 08:04	24°  828'41	0.55129 AU
morning rise	1916 Jun 14 21:49	11°  II04'50		morning rise	1917 May 25 17:22	21°  806'20	
direct	1916 Jun 18 01:02	10°  II43'14		direct	1917 May 29 12:11	20°  835'22	
morning max el	1916 Jun 30 06:01	16°  II27'58	21°50'57	morning max el	1917 Jun 11 23:40	27°  809'29	23°31'27
	1916 Jul 10 18:17	0°  ☿			1917 Jun 14 18:14	0°  II	
asc. node	1916 Jul 15 19:02	8°  ☿54'04		asc. node	1917 Jul 02 16:05	28°  II26'53	
morning set	1916 Jul 21 04:08	19°  ☿40'09			1917 Jul 03 10:27	0°  ☿	
	1916 Jul 26 01:42	0°  Ω		morning set	1917 Jul 05 15:32	4°  ☿35'19	
superior conj	1916 Jul 28 10:23	4°  Ω58'44	1°39'50	superior conj	1917 Jul 12 16:44	19°  ☿43'24	1°28'27
minimum elong	1916 Jul 28 08:45	4°  Ω50'08	1°39'43	minimum elong	1917 Jul 12 14:28	19°  ☿31'08	1°28'10
max. Earth dist.	1916 Aug 01 02:01	12°  Ω31'25	1.34755 AU	max. Earth dist.	1917 Jul 15 01:11	24°  ☿44'43	1.33524 AU
evening rise	1916 Aug 05 14:13	21°  Ω27'08			1917 Jul 17 13:26	0°  Ω	
	1916 Aug 10 04:04	0°  ♍		evening rise	1917 Jul 20 05:42	5°  Ω26'46	
desc. node	1916 Aug 23 03:29	21°  ♍24'06			1917 Aug 02 19:31	0°  ♍	
	1916 Aug 29 04:52	0°  ♎		desc. node	1917 Aug 10 00:30	10°  ♍56'03	
evening max el	1916 Sep 09 17:10	13°  ♎27'09	26°54'05	evening max el	1917 Aug 23 04:48	26°  ♍46'27	27°22'35
retrograde	1916 Sep 22 20:27	20°  ♎43'12			1917 Aug 26 22:50	0°  ♎	
evening set	1916 Sep 29 14:27	18°  ♎00'16		retrograde	1917 Sep 05 17:37	4°  ♎04'29	
min. Earth dist.	1916 Oct 03 13:27	14°  ♎02'48	0.65606 AU	evening set	1917 Sep 12 20:28	1°  ♎22'39	
inferior conj	1916 Oct 05 10:44	11°  ♎51'29	-2°06'09		1917 Sep 14 12:12	30°  ♍♍	
minimum elong	1916 Oct 05 14:06	11°  ♎41'43	2°04'50	min. Earth dist.	1917 Sep 16 13:29	28°  ♍00'21	0.64190 AU
morning rise	1916 Oct 11 14:25	6°  ♎11'54		inferior conj	1917 Sep 18 23:31	25°  ♍27'19	-3°03'26
asc. node	1916 Oct 11 18:13	6°  ♎07'10		minimum elong	1917 Sep 19 04:16	25°  ♍14'49	3°01'51
direct	1916 Oct 14 10:01	5°  ♎28'16		morning rise	1917 Sep 25 13:05	20°  ♍03'23	
morning max el	1916 Oct 20 23:21	9°  ♎01'59	18°17'55	direct	1917 Sep 28 02:56	19°  ♍29'47	
	1916 Nov 04 12:25	0°  ♏		asc. node	1917 Sep 28 15:17	19°  ♍31'09	
morning set	1916 Nov 09 00:51	7°  ♏21'17		morning max el	1917 Oct 04 15:17	22°  ♍55'49	17°56'12
desc. node	1916 Nov 19 02:45	23°  ♏35'46			1917 Oct 10 04:48	0°  ♎	
	1916 Nov 23 03:39	0°  ♏♏		morning set	1917 Oct 21 17:51	19°  ♎02'28	
superior conj	1916 Nov 24 02:19	1°  ♏29'25	-0°32'57		1917 Oct 28 05:23	0°  ♏	
minimum elong	1916 Nov 23 22:03	1°  ♏12'36	0°32'22	superior conj	1917 Nov 03 18:17	10°  ♏45'50	0°15'02
max. Earth dist.	1916 Nov 26 05:07	4°  ♏49'22	1.45108 AU	minimum elong	1917 Nov 03 19:59	10°  ♏52'44	0°14'48
evening rise	1916 Dec 10 10:01	27°  ♏03'17		behind sun begin	1917 Nov 03 15:50	10°  ♏35'56	
	1916 Dec 12 07:13	0°  ♏		behind sun end	1917 Nov 04 00:07	11°  ♏09'31	
greatest brilliancy	1916 Dec 21 17:08	14°  ♏37'34	-0.7m	desc. node	1917 Nov 05 23:46	14°  ♏21'45	
	1917 Jan 01 17:07	0°  ♏		max. Earth dist.	1917 Nov 08 23:44	19°  ♏09'11	1.44498 AU
evening max el	1917 Jan 03 03:25	1°  ♏33'36	19°22'43		1917 Nov 15 21:29	0°  ♏♏	
asc. node	1917 Jan 07 17:30	5°  ♏04'23		evening rise	1917 Nov 19 21:45	6°  ♏12'18	
retrograde	1917 Jan 10 06:49	5°  ♏39'59			1917 Dec 05 16:56	0°  ♏	
evening set	1917 Jan 13 17:21	4°  ♏30'50		evening max el	1917 Dec 17 06:53	15°  ♏03'15	20°20'27
	1917 Jan 18 04:29	30°  ♏♏		retrograde	1917 Dec 25 04:44	19°  ♏42'33	
inferior conj	1917 Jan 19 06:14	28°  ♏37'33	3°12'24	asc. node	1917 Dec 25 14:32	19°  ♏41'36	
minimum elong	1917 Jan 19 03:48	28°  ♏45'26	3°11'54	evening set	1917 Dec 28 23:42	18°  ♏19'11	
min. Earth dist.	1917 Jan 20 12:55	26°  ♏58'18	0.66296 AU	inferior conj	1918 Jan 03 09:30	12°  ♏12'53	2°39'57

minimum elong	1918 Jan 03 06:52	12°♄21'49	2°39'12	min. Earth dist.	1918 Dec 18 21:12	25°♄37'28	0.67679 AU
min. Earth dist.	1918 Jan 04 02:45	11°♄14'27	0.67177 AU	morning rise	1918 Dec 23 19:29	19°♄43'24	
morning rise	1918 Jan 08 13:51	5°♄59'36		direct	1918 Dec 28 21:10	17°♄32'20	
direct	1918 Jan 14 06:34	3°♄27'55		morning max el	1919 Jan 08 03:01	23°♄37'44	23°13'18
morning max el	1918 Jan 25 17:52	10°♄18'25	24°41'37		1919 Jan 13 18:13	0°♄	
desc. node	1918 Feb 01 22:58	18°♄35'06		desc. node	1919 Jan 19 20:00	7°♄55'34	
	1918 Feb 10 09:24	0°♄			1919 Feb 03 19:27	0°♄	
	1918 Mar 01 07:52	0°♄		morning set	1919 Feb 11 23:45	13°♄15'07	
morning set	1918 Mar 02 19:30	2°♄35'59		max. Earth dist.	1919 Feb 16 06:03	20°♄31'06	1.39446 AU
max. Earth dist.	1918 Mar 06 11:14	9°♄10'09	1.37321 AU		1919 Feb 21 14:10	0°♄	
superior conj	1918 Mar 13 02:36	21°♄42'50	-1°33'02	superior conj	1919 Feb 23 21:25	4°♄13'19	-1°53'07
minimum elong	1918 Mar 13 06:49	22°♄03'23	1°32'30	minimum elong	1919 Feb 24 01:16	4°♄31'09	1°52'49
	1918 Mar 17 07:24	0°♄		evening rise	1919 Mar 05 08:36	22°♄13'36	
evening rise	1918 Mar 21 15:17	8°♄39'23			1919 Mar 09 10:42	0°♄	
asc. node	1918 Mar 23 13:52	12°♄30'08		asc. node	1919 Mar 10 10:54	1°♄51'50	
	1918 Apr 02 13:15	0°♄		evening max el	1919 Mar 21 14:32	18°♄22'29	18°35'21
evening max el	1918 Apr 07 12:34	6°♄00'32	19°18'42	retrograde	1919 Mar 29 09:01	22°♄10'45	
retrograde	1918 Apr 16 15:28	10°♄25'16		evening set	1919 Mar 31 16:58	21°♄51'23	
evening set	1918 Apr 18 17:42	10°♄12'20		inferior conj	1919 Apr 08 07:18	17°♄24'37	2°28'29
inferior conj	1918 Apr 27 03:31	6°♄03'45	1°04'08	minimum elong	1919 Apr 08 11:19	17°♄16'49	2°27'26
minimum elong	1918 Apr 27 06:04	5°♄59'32	1°03'17	min. Earth dist.	1919 Apr 11 16:57	14°♄47'51	0.57981 AU
min. Earth dist.	1918 Apr 29 22:49	4°♄12'49	0.56210 AU	morning rise	1919 Apr 16 02:37	12°♄03'38	
desc. node	1918 Apr 30 22:10	3°♄36'16		desc. node	1919 Apr 17 19:12	11°♄21'33	
morning rise	1918 May 05 15:30	1°♄15'22		direct	1919 Apr 21 21:57	10°♄38'25	
direct	1918 May 10 09:46	0°♄23'22		morning max el	1919 May 06 07:03	18°♄15'54	26°35'59
morning max el	1918 May 24 14:08	7°♄36'28	25°11'43		1919 May 16 02:25	0°♄	
	1918 Jun 10 01:22	0°♄			1919 Jun 02 11:06	0°♄	
asc. node	1918 Jun 19 13:08	18°♄16'59		morning set	1919 Jun 04 13:55	4°♄23'09	
morning set	1918 Jun 20 03:22	19°♄31'46		asc. node	1919 Jun 06 10:10	8°♄18'09	
	1918 Jun 24 23:50	0°♄		superior conj	1919 Jun 11 14:20	19°♄35'46	0°52'16
superior conj	1918 Jun 27 02:43	4°♄38'14	1°12'19	minimum elong	1919 Jun 11 12:17	19°♄24'34	0°51'53
minimum elong	1918 Jun 27 00:19	4°♄25'09	1°11'56	max. Earth dist.	1919 Jun 11 19:10	20°♄02'25	1.32256 AU
max. Earth dist.	1918 Jun 28 07:59	7°♄17'46	1.32691 AU		1919 Jun 16 08:44	0°♄	
evening rise	1918 Jul 04 06:04	19°♄52'27		evening rise	1919 Jun 18 12:25	4°♄34'23	
	1918 Jul 09 08:39	0°♄			1919 Jul 02 02:02	0°♄	
desc. node	1918 Jul 27 21:30	29°♄47'11		desc. node	1919 Jul 14 18:32	17°♄39'34	
	1918 Jul 28 01:27	0°♄		evening max el	1919 Jul 18 17:04	21°♄46'22	26°46'55
evening max el	1918 Aug 05 13:35	9°♄37'02	27°21'16	retrograde	1919 Aug 01 16:02	29°♄00'02	
retrograde	1918 Aug 19 08:32	16°♄53'37		evening set	1919 Aug 08 12:31	26°♄58'24	
evening set	1918 Aug 26 13:21	14°♄24'57		min. Earth dist.	1919 Aug 12 07:00	24°♄20'37	0.60434 AU
min. Earth dist.	1918 Aug 30 03:22	11°♄31'25	0.62436 AU	inferior conj	1919 Aug 15 13:19	21°♄39'00	-4°37'05
inferior conj	1918 Sep 02 01:32	8°♄46'22	-3°55'48	minimum elong	1919 Aug 15 17:38	21°♄30'03	4°36'27
minimum elong	1918 Sep 02 06:52	8°♄33'47	3°54'26	morning rise	1919 Aug 23 00:40	16°♄55'33	
morning rise	1918 Sep 09 01:53	3°♄41'21		direct	1919 Aug 25 10:48	16°♄33'09	
direct	1918 Sep 11 12:30	3°♄14'39		morning max el	1919 Sep 01 19:25	20°♄09'48	18°07'48
asc. node	1918 Sep 15 12:19	4°♄27'58		asc. node	1919 Sep 02 09:22	20°♄44'41	
morning max el	1918 Sep 18 07:03	6°♄41'32	17°52'28		1919 Sep 09 03:43	0°♄	
	1918 Oct 03 08:59	0°♄		morning set	1919 Sep 17 15:55	15°♄16'59	
morning set	1918 Oct 04 08:53	1°♄46'58			1919 Sep 25 14:16	0°♄	
superior conj	1918 Oct 15 12:29	21°♄20'37	0°54'54	superior conj	1919 Sep 27 08:42	3°♄11'30	1°22'51
minimum elong	1918 Oct 15 16:56	21°♄39'31	0°54'19	minimum elong	1919 Sep 27 12:48	3°♄29'52	1°22'26
	1918 Oct 20 16:47	0°♄		max. Earth dist.	1919 Oct 04 23:49	16°♄27'03	1.41484 AU
max. Earth dist.	1918 Oct 22 14:32	3°♄06'52	1.43237 AU	evening rise	1919 Oct 10 06:45	25°♄10'05	
desc. node	1918 Oct 23 20:48	5°♄09'19		desc. node	1919 Oct 10 17:50	25°♄54'44	
evening rise	1918 Oct 30 07:09	15°♄20'39			1919 Oct 13 07:25	0°♄	
	1918 Nov 08 22:06	0°♄			1919 Nov 02 19:06	0°♄	
evening max el	1918 Nov 30 04:41	28°♄33'34	21°30'22	evening max el	1919 Nov 12 21:25	12°♄06'05	22°48'15
	1918 Dec 01 16:19	0°♄		retrograde	1919 Nov 22 21:13	18°♄02'03	
retrograde	1918 Dec 09 02:05	3°♄50'55		evening set	1919 Nov 27 14:38	16°♄06'23	
asc. node	1918 Dec 12 11:34	2°♄47'15		asc. node	1919 Nov 29 08:35	14°♄24'14	
evening set	1918 Dec 13 07:21	2°♄11'56		inferior conj	1919 Dec 02 23:19	9°♄44'38	1°12'52
	1918 Dec 15 13:03	30°♄		minimum elong	1919 Dec 02 21:43	9°♄50'11	1°12'12
inferior conj	1918 Dec 18 15:50	25°♄56'01	1°59'35	min. Earth dist.	1919 Dec 02 17:49	10°♄03'40	0.67827 AU
minimum elong	1918 Dec 18 13:30	26°♄04'06	1°58'46	morning rise	1919 Dec 08 04:40	3°♄34'45	

direct	1919 Dec 12 15:39	1° ♄ 46'23		inferior conj	1920 Nov 16 06:09	23° ♄ 36'05	0°21'03
morning max el	1919 Dec 21 16:00	7° ♄ 03'50	21°47'10	minimum elong	1920 Nov 16 05:39	23° ♄ 37'48	0°20'49
desc. node	1920 Jan 06 17:03	27° ♄ 45'53		morning rise	1920 Nov 21 15:22	17° ♄ 31'20	
	1920 Jan 08 05:55	0° ♄		direct	1920 Nov 25 12:50	16° ♄ 04'59	
morning set	1920 Jan 22 22:51	22° ♄ 30'26		morning max el	1920 Dec 03 11:58	20° ♄ 40'11	20°30'10
	1920 Jan 27 13:49	0° ♄			1920 Dec 11 04:37	0° ♄	
max. Earth dist.	1920 Jan 29 04:41	2° ♄ 40'39	1.41547 AU	desc. node	1920 Dec 23 14:06	17° ♄ 57'20	
					1920 Dec 31 11:22	0° ♄	
superior conj	1920 Feb 05 20:46	15° ♄ 46'25	-2°04'06	morning set	1920 Dec 31 22:53	0° ♄ 44'38	
minimum elong	1920 Feb 05 22:06	15° ♄ 52'17	2°04'03	max. Earth dist.	1921 Jan 10 11:25	15° ♄ 47'18	1.43338 AU
	1920 Feb 13 18:41	0° ♄					
evening rise	1920 Feb 16 14:02	5° ♄ 09'55		superior conj	1921 Jan 16 19:32	26° ♄ 10'01	-2°01'03
asc. node	1920 Feb 25 07:56	20° ♄ 47'35		minimum elong	1921 Jan 16 15:54	25° ♄ 54'58	2°00'55
	1920 Mar 02 19:24	0° ♄			1921 Jan 19 02:28	0° ♄	
evening max el	1920 Mar 03 23:12	1° ♄ 12'56	18°12'02	evening rise	1921 Jan 29 03:26	17° ♄ 19'17	
retrograde	1920 Mar 10 20:51	4° ♄ 41'13			1921 Feb 05 10:14	0° ♄	
evening set	1920 Mar 13 10:43	4° ♄ 12'55		asc. node	1921 Feb 11 04:58	9° ♄ 08'29	
	1920 Mar 19 16:26	30° ♄		evening max el	1921 Feb 15 11:12	14° ♄ 21'45	18°08'12
inferior conj	1920 Mar 20 07:59	29° ♄ 25'13	3°19'06	retrograde	1921 Feb 21 23:12	17° ♄ 45'27	
minimum elong	1920 Mar 20 10:51	29° ♄ 18'43	3°18'38	evening set	1921 Feb 24 18:19	17° ♄ 06'55	
min. Earth dist.	1920 Mar 23 16:27	26° ♄ 25'24	0.60094 AU	inferior conj	1921 Mar 03 02:16	11° ♄ 58'27	3°41'12
morning rise	1920 Mar 27 08:48	23° ♄ 41'08		minimum elong	1921 Mar 03 03:09	11° ♄ 56'11	3°41'09
direct	1920 Apr 02 22:39	21° ♄ 39'07		min. Earth dist.	1921 Mar 05 23:46	9° ♄ 00'33	0.62208 AU
desc. node	1920 Apr 03 16:13	21° ♄ 40'35		morning rise	1921 Mar 09 10:44	6° ♄ 00'06	
morning max el	1920 Apr 17 05:40	29° ♄ 28'59	27°30'56	direct	1921 Mar 16 08:55	3° ♄ 28'19	
	1920 Apr 17 18:06	0° ♄		desc. node	1921 Mar 21 13:15	4° ♄ 43'13	
	1920 May 08 23:55	0° ♄		morning max el	1921 Mar 30 10:19	11° ♄ 23'13	27°49'36
morning set	1920 May 18 21:32	19° ♄ 03'48			1921 Apr 14 02:12	0° ♄	
asc. node	1920 May 23 07:13	28° ♄ 25'53			1921 May 01 07:03	0° ♄	
	1920 May 24 00:32	0° ♄		morning set	1921 May 03 00:09	3° ♄ 26'30	
max. Earth dist.	1920 May 25 07:16	2° ♄ 48'07	1.32212 AU	max. Earth dist.	1921 May 08 16:25	15° ♄ 21'21	1.32557 AU
superior conj	1920 May 26 01:53	4° ♄ 30'16	0°29'00	superior conj	1921 May 10 11:38	19° ♄ 15'17	0°03'15
minimum elong	1920 May 26 00:37	4° ♄ 23'19	0°28'45	minimum elong	1921 May 10 11:29	19° ♄ 14'27	0°03'14
evening rise	1920 Jun 01 22:29	19° ♄ 25'11		behind sun begin	1921 May 10 06:25	18° ♄ 46'55	
	1920 Jun 07 03:02	0° ♄		behind sun end	1921 May 10 16:33	19° ♄ 42'00	
	1920 Jun 26 12:30	0° ♄		asc. node	1921 May 10 04:16	18° ♄ 35'16	
evening max el	1920 Jun 29 13:40	3° ♄ 09'16	25°41'10		1921 May 15 10:09	0° ♄	
desc. node	1920 Jun 30 15:32	4° ♄ 09'06		evening rise	1921 May 17 10:13	4° ♄ 17'22	
retrograde	1920 Jul 13 14:05	10° ♄ 18'12			1921 May 31 05:12	0° ♄	
evening set	1920 Jul 19 13:24	8° ♄ 53'54		evening max el	1921 Jun 11 04:26	13° ♄ 52'45	24°12'57
min. Earth dist.	1920 Jul 24 01:57	6° ♄ 14'22	0.58381 AU	desc. node	1921 Jun 17 12:32	18° ♄ 43'48	
inferior conj	1920 Jul 27 07:21	3° ♄ 55'52	-4°57'24	retrograde	1921 Jun 25 00:26	20° ♄ 51'00	
minimum elong	1920 Jul 27 08:11	3° ♄ 54'22	4°57'23	evening set	1921 Jun 29 15:01	20° ♄ 03'49	
	1920 Aug 02 22:11	30° ♄		min. Earth dist.	1921 Jul 05 15:16	17° ♄ 05'51	0.56557 AU
morning rise	1920 Aug 04 05:18	29° ♄ 34'56		inferior conj	1921 Jul 08 05:17	15° ♄ 29'02	-4°43'04
direct	1920 Aug 06 17:37	29° ♄ 14'49		minimum elong	1921 Jul 08 00:47	15° ♄ 36'06	4°42'32
	1920 Aug 10 09:13	0° ♄		morning rise	1921 Jul 16 13:14	11° ♄ 27'57	
morning max el	1920 Aug 15 01:12	3° ♄ 11'38	18°43'31	direct	1921 Jul 19 05:33	11° ♄ 08'54	
asc. node	1920 Aug 19 06:25	8° ♄ 06'18		morning max el	1921 Jul 28 21:31	15° ♄ 38'08	19°40'37
morning set	1920 Aug 31 10:13	29° ♄ 19'44		asc. node	1921 Aug 06 03:30	26° ♄ 18'52	
	1920 Aug 31 18:29	0° ♄			1921 Aug 08 07:42	0° ♄	
				morning set	1921 Aug 15 12:22	13° ♄ 46'08	
superior conj	1920 Sep 09 01:55	16° ♄ 04'19	1°39'10	superior conj	1921 Aug 23 10:42	29° ♄ 44'12	1°45'33
minimum elong	1920 Sep 09 04:17	16° ♄ 15'31	1°39'01	minimum elong	1921 Aug 23 11:11	29° ♄ 46'37	1°45'32
max. Earth dist.	1920 Sep 16 04:46	29° ♄ 05'12	1.39467 AU		1921 Aug 23 13:54	0° ♄	
	1920 Sep 16 17:13	0° ♄		max. Earth dist.	1921 Aug 29 09:07	11° ♄ 09'27	1.37440 AU
evening rise	1920 Sep 20 05:33	6° ♄ 03'52		evening rise	1921 Sep 02 03:50	18° ♄ 03'47	
desc. node	1920 Sep 26 14:53	16° ♄ 34'11			1921 Sep 09 02:37	0° ♄	
	1920 Oct 05 09:27	0° ♄		desc. node	1921 Sep 13 11:55	7° ♄ 03'27	
evening max el	1920 Oct 25 10:50	25° ♄ 42'12	24°08'15		1921 Sep 29 16:01	0° ♄	
	1920 Oct 30 12:40	0° ♄		evening max el	1921 Oct 07 22:52	9° ♄ 21'37	25°23'26
retrograde	1920 Nov 05 12:47	2° ♄ 12'20		retrograde	1921 Oct 20 00:00	16° ♄ 17'51	
evening set	1920 Nov 10 19:55	29° ♄ 59'41		evening set	1921 Oct 25 21:31	13° ♄ 49'36	
	1920 Nov 10 19:45	30° ♄		min. Earth dist.	1921 Oct 30 07:43	8° ♄ 55'07	0.67121 AU
asc. node	1920 Nov 15 05:38	24° ♄ 58'39		inferior conj	1921 Oct 31 10:34	7° ♄ 28'18	-0°34'33
min. Earth dist.	1920 Nov 15 14:06	24° ♄ 30'16	0.67641 AU				

minimum elong	1921 Oct 31 11:27	7° \mathbb{M} 25'27	0°34'10		1922 Oct 05 01:45	30° \mathbb{R} $\underline{\mathbb{A}}$	
asc. node	1921 Nov 02 02:41	5° \mathbb{M} 21'32		evening set	1922 Oct 09 17:28	27° $\underline{\mathbb{A}}$ 32'07	
morning rise	1921 Nov 06 01:37	1° \mathbb{M} 31'14		min. Earth dist.	1922 Oct 13 20:16	23° $\underline{\mathbb{A}}$ 13'55	0.66257 AU
direct	1921 Nov 09 11:17	0° \mathbb{M} 24'24		inferior conj	1922 Oct 15 10:40	21° $\underline{\mathbb{A}}$ 17'23	-1°32'30
morning max el	1921 Nov 16 15:51	4° \mathbb{M} 27'39	19°26'31	minimum elong	1922 Oct 15 13:08	21° $\underline{\mathbb{A}}$ 09'55	1°31'29
greatest brilliancy	1921 Nov 30 05:08	22° \mathbb{M} 40'36	-0.7m	asc. node	1922 Oct 19 23:44	16° $\underline{\mathbb{A}}$ 28'02	
	1921 Dec 05 00:28	0° \mathbb{A}		morning rise	1922 Oct 21 09:19	15° $\underline{\mathbb{A}}$ 30'44	
desc. node	1921 Dec 10 11:10	8° \mathbb{A} 24'13		direct	1922 Oct 24 09:18	14° $\underline{\mathbb{A}}$ 39'52	
morning set	1921 Dec 10 21:47	9° \mathbb{A} 05'22		morning max el	1922 Oct 31 02:21	18° $\underline{\mathbb{A}}$ 21'46	18°38'14
max. Earth dist.	1921 Dec 24 01:20	29° \mathbb{A} 38'37	1.44578 AU		1922 Nov 08 22:31	0° \mathbb{M}	
	1921 Dec 24 06:45	0° \mathbb{Z}		morning set	1922 Nov 20 18:04	18° \mathbb{M} 34'16	
				desc. node	1922 Nov 27 08:12	29° \mathbb{M} 01'13	
					1922 Nov 27 23:05	0° \mathbb{A}	
superior conj	1921 Dec 27 16:10	5° \mathbb{Z} 23'41	-1°39'41				
minimum elong	1921 Dec 27 07:51	4° \mathbb{Z} 50'29	1°38'59				
evening rise	1922 Jan 10 20:37	28° \mathbb{Z} 35'00		superior conj	1922 Dec 06 19:08	13° \mathbb{A} 53'54	-1°00'29
	1922 Jan 11 16:58	0° \mathbb{A}		minimum elong	1922 Dec 06 11:41	13° \mathbb{A} 24'39	0°59'34
asc. node	1922 Jan 29 02:00	26° \mathbb{A} 44'25		max. Earth dist.	1922 Dec 06 19:07	13° \mathbb{A} 53'48	1.45121 AU
evening max el	1922 Jan 29 23:40	27° \mathbb{A} 42'03	18°23'11		1922 Dec 17 00:27	0° \mathbb{Z}	
	1922 Feb 01 17:43	0° \mathbb{H}		evening rise	1922 Dec 22 14:26	8° \mathbb{Z} 52'31	
retrograde	1922 Feb 05 11:36	1° \mathbb{H} 14'12		greatest brilliancy	1922 Dec 30 19:32	21° \mathbb{Z} 58'14	-0.8m
evening set	1922 Feb 08 11:52	0° \mathbb{H} 24'42			1923 Jan 04 23:40	0° \mathbb{A}	
	1922 Feb 09 04:25	30° \mathbb{R} \mathbb{A}		evening max el	1923 Jan 13 10:06	11° \mathbb{A} 08'26	18°56'13
inferior conj	1922 Feb 14 10:09	24° \mathbb{A} 57'01	3°41'49	asc. node	1923 Jan 15 23:01	13° \mathbb{A} 22'31	
minimum elong	1922 Feb 14 09:16	24° \mathbb{A} 59'34	3°41'46	retrograde	1923 Jan 20 05:59	14° \mathbb{A} 59'59	
min. Earth dist.	1922 Feb 16 16:40	22° \mathbb{A} 20'53	0.64086 AU	evening set	1923 Jan 23 12:17	13° \mathbb{A} 58'31	
morning rise	1922 Feb 20 06:00	18° \mathbb{A} 50'24		inferior conj	1923 Jan 29 03:54	8° \mathbb{A} 13'55	3°26'41
direct	1922 Feb 27 03:12	16° \mathbb{A} 01'49		minimum elong	1923 Jan 29 01:50	8° \mathbb{A} 20'19	3°26'22
desc. node	1922 Mar 08 10:19	20° \mathbb{A} 00'41		min. Earth dist.	1923 Jan 30 19:02	6° \mathbb{A} 11'49	0.65598 AU
morning max el	1922 Mar 12 19:04	23° \mathbb{A} 54'47	27°31'38	morning rise	1923 Feb 03 15:03	2° \mathbb{A} 02'51	
	1922 Mar 18 06:32	0° \mathbb{H}			1923 Feb 06 15:36	30° \mathbb{R} \mathbb{Z}	
	1922 Apr 07 10:22	0° \mathbb{Y}		direct	1923 Feb 10 04:20	29° \mathbb{Z} 11'39	
morning set	1922 Apr 16 19:14	17° \mathbb{Y} 23'15			1923 Feb 13 23:23	0° \mathbb{A}	
max. Earth dist.	1922 Apr 21 18:33	27° \mathbb{Y} 29'14	1.33317 AU	morning max el	1923 Feb 23 05:01	6° \mathbb{A} 51'55	26°42'13
	1922 Apr 22 23:19	0° \mathbb{B}		desc. node	1923 Feb 23 07:22	6° \mathbb{A} 57'51	
					1923 Mar 13 02:36	0° \mathbb{H}	
superior conj	1922 Apr 24 17:45	3° \mathbb{B} 44'52	-0°24'10		1923 Mar 30 18:09	0° \mathbb{Y}	
minimum elong	1922 Apr 24 18:57	3° \mathbb{B} 51'16	0°23'55	morning set	1923 Mar 31 03:26	0° \mathbb{Y} 44'01	
asc. node	1922 Apr 27 01:19	8° \mathbb{B} 42'26		max. Earth dist.	1923 Apr 04 10:03	9° \mathbb{Y} 03'43	1.34524 AU
evening rise	1922 May 01 21:45	19° \mathbb{B} 04'26					
	1922 May 07 07:03	0° \mathbb{I}		superior conj	1923 Apr 08 18:04	17° \mathbb{Y} 52'48	-0°52'05
evening max el	1922 May 23 19:01	24° \mathbb{I} 21'30	22°36'47	minimum elong	1923 Apr 08 20:42	18° \mathbb{Y} 06'25	0°51'35
	1922 Jun 01 03:08	0° \mathbb{E}		asc. node	1923 Apr 13 22:21	28° \mathbb{Y} 43'20	
desc. node	1922 Jun 04 09:33	0° \mathbb{E} 47'51			1923 Apr 14 12:58	0° \mathbb{B}	
retrograde	1922 Jun 05 22:38	0° \mathbb{E} 53'18		evening rise	1923 Apr 16 07:12	3° \mathbb{B} 40'22	
evening set	1922 Jun 09 02:25	0° \mathbb{E} 31'21			1923 May 01 05:18	0° \mathbb{I}	
	1922 Jun 10 22:13	30° \mathbb{R} \mathbb{I}		evening max el	1923 May 05 17:10	5° \mathbb{I} 08'16	21°07'07
min. Earth dist.	1922 Jun 17 02:48	27° \mathbb{I} 01'35	0.55303 AU	retrograde	1923 May 17 12:31	10° \mathbb{I} 53'41	
inferior conj	1922 Jun 18 08:46	26° \mathbb{I} 18'53	-3°42'04	evening set	1923 May 19 18:05	10° \mathbb{I} 42'04	
minimum elong	1922 Jun 18 00:55	26° \mathbb{I} 30'07	3°40'03	desc. node	1923 May 22 06:34	10° \mathbb{I} 03'05	
morning rise	1922 Jun 27 01:39	22° \mathbb{I} 27'06		inferior conj	1923 May 29 02:52	6° \mathbb{I} 43'30	-1°58'10
direct	1922 Jun 29 23:28	22° \mathbb{I} 07'40		minimum elong	1923 May 28 21:22	6° \mathbb{I} 51'16	1°56'15
morning max el	1922 Jul 11 06:36	27° \mathbb{I} 22'19	20°58'24	min. Earth dist.	1923 May 29 15:14	6° \mathbb{I} 26'03	0.54910 AU
	1922 Jul 13 20:04	0° \mathbb{E}		morning rise	1923 Jun 07 00:44	2° \mathbb{I} 42'10	
asc. node	1922 Jul 24 00:33	15° \mathbb{E} 09'57		direct	1923 Jun 10 09:10	2° \mathbb{I} 17'53	
morning set	1922 Jul 30 19:40	28° \mathbb{E} 28'16		morning max el	1923 Jun 23 05:07	8° \mathbb{I} 24'55	22°32'49
	1922 Jul 31 13:25	0° \mathbb{Q}			1923 Jul 08 12:47	0° \mathbb{E}	
				asc. node	1923 Jul 10 21:37	4° \mathbb{E} 30'08	
superior conj	1922 Aug 07 06:28	13° \mathbb{Q} 57'20	1°43'51	morning set	1923 Jul 15 06:05	13° \mathbb{E} 20'32	
minimum elong	1922 Aug 07 05:26	13° \mathbb{Q} 52'06	1°43'49				
max. Earth dist.	1922 Aug 11 17:57	22° \mathbb{Q} 59'33	1.35629 AU	superior conj	1923 Jul 22 09:47	28° \mathbb{E} 33'33	1°35'39
	1922 Aug 15 08:59	0° \mathbb{M}		minimum elong	1923 Jul 22 07:48	28° \mathbb{E} 23'03	1°35'28
evening rise	1922 Aug 15 21:41	0° \mathbb{M} 59'47			1923 Jul 23 02:07	0° \mathbb{Q}	
desc. node	1922 Aug 31 08:56	27° \mathbb{M} 16'29		max. Earth dist.	1923 Jul 25 11:31	5° \mathbb{Q} 00'17	1.34178 AU
	1922 Sep 02 04:20	0° $\underline{\mathbb{A}}$		evening rise	1923 Jul 30 06:32	14° \mathbb{Q} 40'15	
evening max el	1922 Sep 20 10:49	22° $\underline{\mathbb{A}}$ 59'32	26°26'23		1923 Aug 07 13:33	0° \mathbb{M}	
	1922 Oct 01 09:13	0° \mathbb{M}		desc. node	1923 Aug 18 05:55	17° \mathbb{M} 06'08	
retrograde	1922 Oct 03 06:17	0° \mathbb{M} 11'53			1923 Aug 27 22:29	0° $\underline{\mathbb{A}}$	

evening max el	1923 Sep 02 22:55	6° Ω 28'56	27°09'30	max. Earth dist.	1924 Jul 07 14:10	17° Ω 21'54	1.33127 AU
retrograde	1923 Sep 16 07:09	13° Ω 47'24		evening rise	1924 Jul 13 02:14	28° Ω 52'23	
evening set	1923 Sep 23 05:25	11° Ω 03'30			1924 Jul 13 15:38	0° Ω	
min. Earth dist.	1923 Sep 27 01:36	7° Ω 21'21	0.65043 AU		1924 Jul 30 16:48	0° Π	
inferior conj	1923 Sep 29 04:19	4° Ω 59'39	-2°30'49	desc. node	1924 Aug 04 02:56	6° Π 22'13	
minimum elong	1923 Sep 29 08:19	4° Ω 48'28	2°29'20	evening max el	1924 Aug 15 09:48	19° Π 38'00	27°25'59
	1923 Oct 04 11:53	30° Π		retrograde	1924 Aug 29 01:50	26° Π 55'36	
morning rise	1923 Oct 05 12:04	29° Π 26'22		evening set	1924 Sep 05 06:20	24° Π 18'06	
asc. node	1923 Oct 06 20:48	28° Π 57'08		min. Earth dist.	1924 Sep 08 21:39	21° Π 08'47	0.63479 AU
direct	1923 Oct 08 04:47	28° Π 47'35		inferior conj	1924 Sep 11 12:55	18° Π 29'21	-3°26'34
	1923 Oct 11 22:23	0° Ω		minimum elong	1924 Sep 11 18:02	18° Π 16'24	3°25'01
morning max el	1923 Oct 14 17:04	2° Ω 17'21	18°06'30	morning rise	1924 Sep 18 06:58	13° Π 12'45	
morning set	1923 Nov 01 19:32	29° Ω 29'58		direct	1924 Sep 20 19:04	12° Π 42'28	
	1923 Nov 02 02:47	0° Π		asc. node	1924 Sep 22 17:51	13° Π 01'11	
desc. node	1923 Nov 14 05:13	19° Π 44'43		morning max el	1924 Sep 27 09:14	16° Π 08'08	17°52'17
					1924 Oct 07 04:12	0° Ω	
superior conj	1923 Nov 16 00:32	22° Π 37'35	-0°12'07	morning set	1924 Oct 13 22:44	11° Ω 40'26	
minimum elong	1923 Nov 15 23:01	22° Π 31'31	0°11'54		1924 Oct 24 15:59	0° Π	
behind sun begin	1923 Nov 15 15:37	22° Π 02'03					
behind sun end	1923 Nov 16 06:25	23° Π 00'57		superior conj	1924 Oct 26 03:00	2° Π 25'16	0°33'18
max. Earth dist.	1923 Nov 19 13:50	28° Π 15'16	1.44929 AU	minimum elong	1924 Oct 26 06:20	2° Π 39'03	0°32'50
	1923 Nov 20 16:26	0° Ω		desc. node	1924 Oct 31 02:14	10° Π 31'38	
evening rise	1923 Dec 02 10:32	18° Ω 19'04		max. Earth dist.	1924 Nov 01 06:58	12° Π 27'01	1.44033 AU
	1923 Dec 10 00:18	0° Ω		evening rise	1924 Nov 10 19:07	27° Π 22'23	
greatest brilliancy	1923 Dec 15 15:42	8° Ω 33'44	-0.7m		1924 Nov 12 12:08	0° Ω	
evening max el	1923 Dec 27 16:33	24° Ω 37'30	19°45'40		1924 Dec 02 23:41	0° Ω	
asc. node	1924 Jan 02 20:02	28° Ω 47'54		evening max el	1924 Dec 09 17:44	8° Ω 07'51	20°49'04
retrograde	1924 Jan 04 03:15	28° Ω 57'15		retrograde	1924 Dec 18 01:00	13° Ω 02'34	
evening set	1924 Jan 07 17:03	27° Ω 42'27		asc. node	1924 Dec 19 17:05	12° Ω 47'00	
inferior conj	1924 Jan 13 04:24	21° Ω 43'27	2°59'45	evening set	1924 Dec 22 00:10	11° Ω 32'46	
minimum elong	1924 Jan 13 01:49	21° Ω 52'01	2°59'08	inferior conj	1924 Dec 27 09:13	5° Ω 22'16	2°23'43
min. Earth dist.	1924 Jan 14 05:16	20° Ω 21'09	0.66713 AU	minimum elong	1924 Dec 27 06:39	5° Ω 31'03	2°22'54
morning rise	1924 Jan 18 10:21	15° Ω 30'27		min. Earth dist.	1924 Dec 27 21:19	4° Ω 40'50	0.67435 AU
direct	1924 Jan 24 11:24	12° Ω 48'49			1924 Dec 31 15:52	30° Ω	
morning max el	1924 Feb 05 13:58	20° Ω 01'38	25°29'46	morning rise	1925 Jan 01 12:57	29° Ω 09'11	
desc. node	1924 Feb 10 04:24	25° Ω 05'47		direct	1925 Jan 06 23:27	26° Ω 45'32	
	1924 Feb 14 03:18	0° \approx			1925 Jan 14 07:15	0° Ω	
	1924 Mar 05 05:53	0° Π		morning max el	1925 Jan 17 22:15	3° Ω 17'19	24°04'23
morning set	1924 Mar 12 20:06	13° Π 14'20		desc. node	1925 Jan 27 01:26	14° Ω 04'05	
max. Earth dist.	1924 Mar 16 13:38	20° Π 09'05	1.36188 AU		1925 Feb 07 08:12	0° \approx	
	1924 Mar 21 15:37	0° Υ		morning set	1925 Feb 22 15:24	24° \approx 38'18	
					1925 Feb 25 16:53	0° Π	
superior conj	1924 Mar 22 09:49	1° Υ 30'29	-1°18'55	max. Earth dist.	1925 Feb 26 09:36	1° Π 14'29	1.38210 AU
minimum elong	1924 Mar 22 13:39	1° Υ 49'35	1°18'20				
evening rise	1924 Mar 30 12:25	17° Υ 57'45		superior conj	1925 Mar 05 13:34	14° Π 28'53	-1°42'23
asc. node	1924 Mar 30 19:22	18° Υ 32'55		minimum elong	1925 Mar 05 17:50	14° Π 49'13	1°41'55
	1924 Apr 05 16:23	0° Ω			1925 Mar 13 12:36	0° Υ	
evening max el	1924 Apr 17 02:50	16° Ω 31'03	19°52'50	evening rise	1925 Mar 14 10:57	1° Υ 49'58	
retrograde	1924 Apr 27 04:28	21° Ω 22'40		asc. node	1925 Mar 17 16:24	8° Υ 06'29	
evening set	1924 Apr 29 05:03	21° Ω 11'45		evening max el	1925 Mar 30 23:34	28° Υ 32'52	18°57'48
inferior conj	1924 May 08 01:37	17° Ω 11'06	0°01'26		1925 Apr 01 15:21	0° Ω	
minimum elong	1924 May 08 01:41	17° Ω 11'01	0°01'25	retrograde	1925 Apr 08 11:03	2° Ω 39'45	
transit middle	1924 May 08 01:41	17° Ω 11'01	0°01'25	evening set	1925 Apr 10 15:45	2° Ω 24'19	
transit begin	1924 May 07 21:44	17° Ω 17'04			1925 Apr 15 23:13	30° Ω	
transit end	1924 May 08 05:38	17° Ω 04'57		inferior conj	1925 Apr 18 17:10	28° Υ 08'29	1°44'03
desc. node	1924 May 08 03:35	17° Ω 08'05		minimum elong	1925 Apr 18 20:46	28° Υ 02'07	1°42'55
min. Earth dist.	1924 May 10 04:59	15° Ω 52'44	0.55488 AU	min. Earth dist.	1925 Apr 21 20:43	25° Υ 56'03	0.56908 AU
morning rise	1924 May 16 20:05	12° Ω 42'37		desc. node	1925 Apr 25 00:37	24° Υ 00'07	
direct	1924 May 21 00:21	12° Ω 04'05		morning rise	1925 Apr 26 22:44	23° Υ 05'50	
morning max el	1924 Jun 03 20:37	18° Ω 57'02	24°14'50	direct	1925 May 02 04:15	22° Υ 00'48	
	1924 Jun 13 01:42	0° Π		morning max el	1925 May 16 11:16	29° Υ 25'03	25°50'16
asc. node	1924 Jun 26 18:39	24° Π 10'51			1925 May 17 01:32	0° Ω	
morning set	1924 Jun 28 17:52	28° Π 16'39			1925 Jun 06 15:23	0° Π	
	1924 Jun 29 13:22	0° Ω		morning set	1925 Jun 13 05:22	13° Π 11'26	
				asc. node	1925 Jun 13 15:42	14° Π 06'03	
superior conj	1924 Jul 05 17:57	13° Ω 23'21	1°22'08				
minimum elong	1924 Jul 05 15:33	13° Ω 10'24	1°21'48	superior conj	1925 Jun 20 04:51	28° Π 19'49	1°04'15

minimum elong	1925 Jun 20 02:33	28° Π 07'13	1°03'51	minimum elong	1926 Jun 04 14:55	13° Π 07'23	0°42'25
	1925 Jun 20 23:07	0° \mathfrak{E}		max. Earth dist.	1926 Jun 04 11:44	12° Π 49'51	1.32193 AU
max. Earth dist.	1925 Jun 20 23:26	0° \mathfrak{E} 01'43	1.32470 AU	evening rise	1926 Jun 11 13:44	28° Π 13'03	
evening rise	1925 Jun 27 05:30	13° \mathfrak{E} 26'04			1926 Jun 12 10:08	0° \mathfrak{E}	
	1925 Jul 05 17:52	0° Ω			1926 Jun 29 05:01	0° Ω	
desc. node	1925 Jul 21 23:57	24° Ω 50'37		desc. node	1926 Jul 08 20:57	12° Ω 11'43	
	1925 Jul 26 11:46	0° \mathfrak{M}		evening max el	1926 Jul 10 17:30	14° Ω 02'55	26°22'20
evening max el	1925 Jul 28 16:52	2° \mathfrak{M} 12'51	27°10'41	retrograde	1926 Jul 24 17:05	21° Ω 14'46	
retrograde	1925 Aug 11 13:27	9° \mathfrak{M} 27'15		evening set	1926 Jul 31 06:30	19° Ω 27'51	
evening set	1925 Aug 18 16:14	7° \mathfrak{M} 08'45		min. Earth dist.	1926 Aug 04 06:30	16° Ω 51'57	0.59558 AU
min. Earth dist.	1925 Aug 22 07:05	4° \mathfrak{M} 23'45	0.61611 AU	inferior conj	1926 Aug 07 14:03	14° Ω 17'35	-4°49'00
inferior conj	1925 Aug 25 09:20	1° \mathfrak{M} 38'21	-4°15'09	minimum elong	1926 Aug 07 17:13	14° Ω 11'24	4°48'42
minimum elong	1925 Aug 25 14:29	1° \mathfrak{M} 26'48	4°14'04	morning rise	1926 Aug 15 06:01	9° Ω 43'59	
	1925 Aug 27 06:28	30° \mathfrak{R} Ω		direct	1926 Aug 17 16:54	9° Ω 22'42	
morning rise	1925 Sep 01 14:20	26° Ω 41'58		morning max el	1926 Aug 25 09:56	13° Ω 06'03	18°20'27
direct	1925 Sep 04 00:34	26° Ω 17'14		asc. node	1926 Aug 27 11:58	15° Ω 20'23	
asc. node	1925 Sep 09 14:55	28° Ω 33'35			1926 Sep 05 20:33	0° \mathfrak{M}	
morning max el	1925 Sep 10 23:53	29° Ω 46'58	17°56'33	morning set	1926 Sep 10 09:39	8° \mathfrak{M} 32'19	
	1925 Sep 11 05:09	0° \mathfrak{M}					
morning set	1925 Sep 26 21:16	24° \mathfrak{M} 46'19		superior conj	1926 Sep 19 14:41	25° \mathfrak{M} 53'43	1°31'06
	1925 Sep 29 18:04	0° \mathfrak{L}		minimum elong	1926 Sep 19 18:08	26° \mathfrak{M} 09'30	1°30'48
					1926 Sep 21 20:56	0° \mathfrak{L}	
superior conj	1925 Oct 07 08:42	13° \mathfrak{L} 33'22	1°08'15	max. Earth dist.	1926 Sep 27 03:39	9° \mathfrak{L} 16'25	1.40645 AU
minimum elong	1925 Oct 07 13:17	13° \mathfrak{L} 53'15	1°07'43	evening rise	1926 Oct 01 17:55	16° \mathfrak{L} 59'43	
max. Earth dist.	1925 Oct 14 20:06	26° \mathfrak{L} 12'15	1.42541 AU	desc. node	1926 Oct 04 20:19	22° \mathfrak{L} 02'02	
	1925 Oct 17 03:52	0° \mathfrak{M}			1926 Oct 09 21:58	0° \mathfrak{M}	
desc. node	1925 Oct 17 23:16	1° \mathfrak{M} 18'25			1926 Oct 31 11:01	0° \mathfrak{X}	
evening rise	1925 Oct 21 08:53	6° \mathfrak{M} 43'53		evening max el	1926 Nov 05 04:15	5° \mathfrak{X} 12'22	23°22'16
	1925 Nov 05 18:54	0° \mathfrak{X}		retrograde	1926 Nov 15 15:18	11° \mathfrak{X} 23'55	
evening max el	1925 Nov 22 13:18	21° \mathfrak{X} 38'53	22°02'53	evening set	1926 Nov 20 14:29	9° \mathfrak{X} 20'41	
retrograde	1925 Dec 01 21:30	27° \mathfrak{X} 12'22		asc. node	1926 Nov 23 11:11	6° \mathfrak{X} 18'47	
evening set	1925 Dec 06 07:51	25° \mathfrak{X} 26'11		inferior conj	1926 Nov 25 23:40	2° \mathfrak{X} 57'28	0°51'24
asc. node	1925 Dec 06 14:08	25° \mathfrak{X} 13'05		minimum elong	1926 Nov 25 22:29	3° \mathfrak{X} 01'30	0°50'55
inferior conj	1925 Dec 11 16:14	19° \mathfrak{X} 07'24	1°40'27	min. Earth dist.	1926 Nov 25 13:34	3° \mathfrak{X} 32'05	0.67791 AU
minimum elong	1925 Dec 11 14:10	19° \mathfrak{X} 14'35	1°39'40		1926 Nov 28 05:05	30° \mathfrak{R} \mathfrak{M}	
min. Earth dist.	1925 Dec 11 16:50	19° \mathfrak{X} 05'21	0.67785 AU	morning rise	1926 Dec 01 06:26	26° \mathfrak{M} 49'35	
morning rise	1925 Dec 16 20:21	12° \mathfrak{X} 55'59		direct	1926 Dec 05 11:22	25° \mathfrak{M} 11'03	
direct	1925 Dec 21 15:44	10° \mathfrak{X} 54'36			1926 Dec 13 20:38	0° \mathfrak{X}	
morning max el	1925 Dec 31 08:35	16° \mathfrak{X} 38'45	22°36'01	morning max el	1926 Dec 14 00:26	0° \mathfrak{X} 09'33	21°12'59
	1926 Jan 11 07:27	0° \mathfrak{Z}		desc. node	1926 Dec 31 19:32	23° \mathfrak{X} 37'59	
desc. node	1926 Jan 13 22:28	3° \mathfrak{Z} 38'02			1927 Jan 05 01:58	0° \mathfrak{Z}	
	1926 Jan 31 10:04	0° \approx		morning set	1927 Jan 13 18:55	13° \mathfrak{Z} 24'26	
morning set	1926 Feb 03 07:21	4° \approx 40'52		max. Earth dist.	1927 Jan 21 07:42	25° \mathfrak{Z} 29'27	1.42360 AU
max. Earth dist.	1926 Feb 08 05:47	12° \approx 55'27	1.40362 AU		1927 Jan 24 01:13	0° \approx	
superior conj	1926 Feb 16 00:43	26° \approx 36'00	-1°59'10	superior conj	1927 Jan 28 14:02	7° \approx 39'41	-2°04'49
minimum elong	1926 Feb 16 03:49	26° \approx 50'03	1°58'59	minimum elong	1927 Jan 28 13:31	7° \approx 37'26	2°04'48
	1926 Feb 17 21:30	0° \mathfrak{X}		evening rise	1927 Feb 08 22:47	27° \approx 45'57	
evening rise	1926 Feb 25 23:39	15° \mathfrak{X} 08'51			1927 Feb 10 04:28	0° \mathfrak{X}	
asc. node	1926 Mar 04 13:26	27° \mathfrak{X} 17'54		asc. node	1927 Feb 19 10:29	15° \mathfrak{X} 59'48	
	1926 Mar 06 02:57	0° \mathfrak{Y}		evening max el	1927 Feb 25 15:04	24° \mathfrak{X} 05'49	18°08'04
evening max el	1926 Mar 14 04:43	11° \mathfrak{Y} 07'23	18°22'59	retrograde	1927 Mar 04 07:34	27° \mathfrak{X} 30'51	
retrograde	1926 Mar 21 12:55	14° \mathfrak{Y} 45'27		evening set	1927 Mar 06 23:34	26° \mathfrak{X} 58'28	
evening set	1926 Mar 23 23:28	14° \mathfrak{Y} 22'28		inferior conj	1927 Mar 13 14:42	22° \mathfrak{X} 01'48	3°31'33
inferior conj	1926 Mar 31 06:03	9° \mathfrak{Y} 46'30	2°53'53	minimum elong	1927 Mar 13 16:44	21° \mathfrak{X} 56'54	3°31'19
minimum elong	1926 Mar 31 09:48	9° \mathfrak{Y} 38'43	2°53'04	min. Earth dist.	1927 Mar 16 19:18	18° \mathfrak{X} 59'44	0.60999 AU
min. Earth dist.	1926 Apr 03 16:36	6° \mathfrak{Y} 57'07	0.58857 AU	morning rise	1927 Mar 20 08:06	16° \mathfrak{X} 10'21	
morning rise	1926 Apr 07 17:27	4° \mathfrak{Y} 14'27		direct	1927 Mar 27 02:33	13° \mathfrak{X} 54'20	
desc. node	1926 Apr 11 21:38	2° \mathfrak{Y} 44'20		desc. node	1927 Mar 29 18:41	14° \mathfrak{X} 14'12	
direct	1926 Apr 13 21:35	2° \mathfrak{Y} 33'46		morning max el	1927 Apr 10 08:02	21° \mathfrak{X} 48'05	27°43'39
morning max el	1926 Apr 28 06:31	10° \mathfrak{Y} 17'08	27°03'38		1927 Apr 17 12:24	0° \mathfrak{Y}	
	1926 May 13 10:53	0° \mathfrak{Z}			1927 May 06 11:28	0° \mathfrak{Z}	
morning set	1926 May 28 14:58	27° \mathfrak{Z} 59'36		morning set	1927 May 12 20:44	12° \mathfrak{Z} 33'46	
	1926 May 29 13:51	0° Π		asc. node	1927 May 18 09:47	24° \mathfrak{Z} 19'44	
asc. node	1926 May 31 12:45	4° Π 10'46		max. Earth dist.	1927 May 18 23:01	25° \mathfrak{Z} 31'47	1.32301 AU
superior conj	1926 Jun 04 16:40	13° Π 17'04	0°42'46	superior conj	1927 May 20 03:40	28° \mathfrak{Z} 08'16	0°18'22

minimum elong	1927 May 20 02:50	28°♄03'43	0°18'11		1928 Apr 27 10:35	0°♄	
	1927 May 21 00:03	0°♄		max. Earth dist.	1928 May 01 05:25	7°♄54'43	1.32817 AU
evening rise	1927 May 27 00:42	13°♄05'02					
	1927 Jun 04 13:38	0°♄		superior conj	1928 May 03 12:06	12°♄47'47	-0°08'14
evening max el	1927 Jun 22 10:59	25°♄06'38	25°05'39	minimum elong	1928 May 03 12:30	12°♄49'56	0°08'09
desc. node	1927 Jun 25 17:59	27°♄57'10		behind sun begin	1928 May 03 07:58	12°♄25'27	
	1927 Jun 28 19:33	0°♄		behind sun end	1928 May 03 17:02	13°♄14'25	
retrograde	1927 Jul 06 10:50	2°♄13'19		asc. node	1928 May 04 06:49	14°♄28'56	
evening set	1927 Jul 11 21:18	1°♄05'22		evening rise	1928 May 10 12:32	27°♄55'47	
	1927 Jul 14 04:08	30°♄			1928 May 11 12:07	0°♄	
min. Earth dist.	1927 Jul 16 22:37	28°♄19'48	0.57555 AU		1928 May 28 23:03	0°♄	
inferior conj	1927 Jul 19 23:41	26°♄16'38	-4°56'27	evening max el	1928 Jun 03 00:50	5°♄40'36	23°32'16
minimum elong	1927 Jul 19 22:21	26°♄18'55	4°56'25	desc. node	1928 Jun 11 14:58	11°♄32'09	
morning rise	1927 Jul 28 02:02	22°♄05'10		retrograde	1928 Jun 16 16:11	12°♄30'04	
direct	1927 Jul 30 15:42	21°♄45'48		evening set	1928 Jun 20 14:59	11°♄55'50	
morning max el	1927 Aug 08 12:08	25°♄54'46	19°05'09	min. Earth dist.	1928 Jun 27 11:07	8°♄45'40	0.55933 AU
	1927 Aug 12 03:43	0°♄		inferior conj	1928 Jun 29 13:14	7°♄30'52	-4°23'17
asc. node	1927 Aug 14 09:01	3°♄05'28		minimum elong	1928 Jun 29 06:45	7°♄40'35	4°22'07
morning set	1927 Aug 25 07:39	22°♄46'06		morning rise	1928 Jul 08 01:08	3°♄35'10	
	1927 Aug 28 23:07	0°♄		direct	1928 Jul 10 19:21	3°♄16'16	
				morning max el	1928 Jul 21 03:47	8°♄04'02	20°11'10
superior conj	1927 Sep 02 15:11	9°♄08'42	1°42'58	asc. node	1928 Jul 31 06:04	21°♄35'46	
minimum elong	1927 Sep 02 16:44	9°♄16'10	1°42'53		1928 Aug 04 20:00	0°♄	
max. Earth dist.	1927 Sep 09 07:12	21°♄36'12	1.38592 AU	morning set	1928 Aug 08 12:15	7°♄19'48	
evening rise	1927 Sep 13 03:01	28°♄22'30					
	1927 Sep 14 01:37	0°♄		superior conj	1928 Aug 16 05:05	23°♄04'00	1°45'43
desc. node	1927 Sep 21 17:21	12°♄37'47		minimum elong	1928 Aug 16 04:52	23°♄02'55	1°45'42
	1927 Oct 03 08:38	0°♄			1928 Aug 19 16:59	0°♄	
evening max el	1927 Oct 18 16:42	18°♄49'41	24°41'10	max. Earth dist.	1928 Aug 21 12:33	3°♄30'24	1.36640 AU
retrograde	1927 Oct 30 05:19	25°♄32'53		evening rise	1928 Aug 25 10:12	10°♄48'03	
evening set	1927 Nov 04 18:27	23°♄13'18			1928 Sep 05 16:20	0°♄	
min. Earth dist.	1927 Nov 09 09:06	17°♄58'21	0.67460 AU	desc. node	1928 Sep 07 14:21	3°♄00'49	
inferior conj	1927 Nov 10 05:43	16°♄49'51	-0°02'10		1928 Sep 27 18:12	0°♄	
minimum elong	1927 Nov 10 05:46	16°♄49'41	0°02'09	evening max el	1928 Sep 30 04:44	2°♄29'44	25°52'12
transit middle	1927 Nov 10 05:46	16°♄49'41	0°02'09	retrograde	1928 Oct 12 14:32	9°♄34'02	
transit begin	1927 Nov 10 03:02	16°♄58'45		evening set	1928 Oct 18 17:53	7°♄00'32	
transit end	1927 Nov 10 08:29	16°♄40'37		min. Earth dist.	1928 Oct 23 00:59	2°♄21'04	0.66797 AU
asc. node	1927 Nov 10 08:13	16°♄41'30		inferior conj	1928 Oct 24 08:33	0°♄41'26	-0°58'57
morning rise	1927 Nov 15 17:10	10°♄47'54		minimum elong	1928 Oct 24 10:05	0°♄36'35	0°58'18
direct	1927 Nov 19 09:17	9°♄30'23			1928 Oct 24 21:43	30°♄	
morning max el	1927 Nov 26 23:50	13°♄51'07	20°01'11	asc. node	1928 Oct 27 05:16	27°♄16'43	
	1927 Dec 09 09:26	0°♄		morning rise	1928 Oct 30 02:36	24°♄48'08	
desc. node	1927 Dec 18 16:36	13°♄56'46		direct	1928 Nov 02 07:52	23°♄48'29	
morning set	1927 Dec 23 15:09	21°♄31'50		morning max el	1928 Nov 09 06:39	27°♄41'35	19°03'52
	1927 Dec 29 01:48	0°♄			1928 Nov 11 09:05	0°♄	
max. Earth dist.	1928 Jan 03 17:08	8°♄55'00	1.43938 AU	morning set	1928 Dec 01 21:04	0°♄16'03	
					1928 Dec 01 16:57	0°♄	
superior conj	1928 Jan 09 01:28	17°♄32'41	-1°54'22	desc. node	1928 Dec 04 13:39	4°♄28'26	
minimum elong	1928 Jan 08 19:30	17°♄08'23	1°54'01	max. Earth dist.	1928 Dec 16 08:58	22°♄58'30	1.44902 AU
	1928 Jan 16 13:35	0°♄					
evening rise	1928 Jan 22 04:05	9°♄33'19		superior conj	1928 Dec 18 12:47	26°♄22'53	-1°24'55
	1928 Feb 03 10:22	0°♄		minimum elong	1928 Dec 18 03:57	25°♄48'01	1°23'59
asc. node	1928 Feb 06 07:31	4°♄03'18			1928 Dec 20 19:37	0°♄	
evening max el	1928 Feb 09 03:36	7°♄20'37	18°12'23	evening rise	1929 Jan 02 11:26	20°♄23'59	
retrograde	1928 Feb 15 14:35	10°♄46'27			1929 Jan 08 08:09	0°♄	
evening set	1928 Feb 18 11:48	10°♄03'29		evening max el	1929 Jan 22 15:33	20°♄44'27	18°35'10
inferior conj	1928 Feb 24 15:15	4°♄46'56	3°43'41	asc. node	1929 Jan 23 04:33	21°♄16'33	
minimum elong	1928 Feb 24 15:19	4°♄46'45	3°43'42	retrograde	1929 Jan 29 05:48	24°♄23'13	
min. Earth dist.	1928 Feb 27 06:46	1°♄55'54	0.63040 AU	evening set	1929 Feb 01 08:35	23°♄28'41	
	1928 Feb 29 06:00	30°♄		inferior conj	1929 Feb 07 03:42	17°♄53'42	3°37'01
morning rise	1928 Mar 01 17:50	28°♄44'28		minimum elong	1929 Feb 07 02:14	17°♄58'04	3°36'52
direct	1928 Mar 08 16:44	26°♄03'20		min. Earth dist.	1929 Feb 09 03:39	15°♄31'00	0.64783 AU
desc. node	1928 Mar 15 15:44	28°♄18'32		morning rise	1929 Feb 12 19:25	11°♄45'07	
	1928 Mar 18 02:45	0°♄		direct	1929 Feb 19 14:07	8°♄53'37	
morning max el	1928 Mar 22 14:40	3°♄59'16	27°46'16	desc. node	1929 Mar 02 12:47	14°♄22'13	
	1928 Apr 11 01:55	0°♄		morning max el	1929 Mar 04 23:58	16°♄42'11	27°13'58
morning set	1928 Apr 25 20:29	26°♄46'43			1929 Mar 16 01:07	0°♄	

	1929 Apr 03 21:21	0°♿			1930 Mar 09 22:39	0°♿	
morning set	1929 Apr 09 11:19	10°♿28'49		morning set	1930 Mar 23 13:28	23°♿29'22	
max. Earth dist.	1929 Apr 14 03:08	19°♿47'23	1.33774 AU		1930 Mar 26 23:36	0°♿	
				max. Earth dist.	1930 Mar 27 13:42	1°♿08'32	1.35188 AU
superior conj	1929 Apr 17 16:00	27°♿08'43	-0°36'01				
minimum elong	1929 Apr 17 17:48	27°♿18'16	0°35'39	superior conj	1930 Apr 01 13:00	11°♿04'26	-1°03'44
	1929 Apr 19 00:23	0°♿		minimum elong	1930 Apr 01 16:12	11°♿20'43	1°03'10
asc. node	1929 Apr 21 03:51	4°♿33'47		asc. node	1930 Apr 08 00:53	24°♿30'21	
evening rise	1929 Apr 24 23:22	12°♿38'30		evening rise	1930 Apr 09 07:18	27°♿07'19	
	1929 May 03 21:34	0°♿			1930 Apr 10 17:05	0°♿	
evening max el	1929 May 15 17:55	16°♿13'25	21°57'14	evening max el	1930 Apr 27 20:36	27°♿13'07	20°33'10
retrograde	1929 May 28 09:17	22°♿26'43			1930 May 01 05:30	0°♿	
desc. node	1929 May 29 11:57	22°♿23'56		retrograde	1930 May 08 22:19	2°♿35'41	
evening set	1929 May 31 01:36	22°♿10'43		evening set	1930 May 11 00:13	2°♿25'05	
inferior conj	1929 Jun 09 11:04	18°♿06'20	-3°02'07	desc. node	1930 May 16 08:59	0°♿33'31	
minimum elong	1929 Jun 09 03:29	18°♿16'56	2°59'49		1930 May 17 11:06	30°♿♿	
min. Earth dist.	1929 Jun 08 22:42	18°♿23'39	0.55020 AU	inferior conj	1930 May 20 05:09	28°♿27'18	-1°07'08
morning rise	1929 Jun 18 06:47	14°♿12'57		minimum elong	1930 May 20 01:59	28°♿31'53	1°05'58
direct	1929 Jun 21 08:28	13°♿52'02		min. Earth dist.	1930 May 21 11:12	27°♿43'55	0.55038 AU
morning max el	1929 Jul 03 07:52	19°♿28'44	21°36'56	morning rise	1930 May 29 02:52	24°♿16'34	
	1929 Jul 11 21:07	0°♿		direct	1930 Jun 01 18:38	23°♿47'45	
asc. node	1929 Jul 18 03:07	10°♿40'17			1930 Jun 14 20:09	0°♿	
morning set	1929 Jul 23 21:07	22°♿07'10		morning max el	1930 Jun 15 02:39	0°♿15'06	23°16'17
	1929 Jul 27 15:11	0°♿			1930 Jul 04 22:10	0°♿	
				asc. node	1930 Jul 05 00:09	0°♿09'54	
superior conj	1929 Jul 31 04:24	7°♿27'59	1°41'05	morning set	1930 Jul 08 08:19	7°♿01'45	
minimum elong	1929 Jul 31 02:54	7°♿20'11	1°41'00				
max. Earth dist.	1929 Aug 04 01:11	15°♿24'31	1.34968 AU	superior conj	1930 Jul 15 10:02	22°♿10'43	1°30'29
evening rise	1929 Aug 08 10:59	24°♿04'45		minimum elong	1930 Jul 15 07:49	21°♿58'49	1°30'16
	1929 Aug 11 14:48	0°♿		max. Earth dist.	1930 Jul 17 22:54	27°♿34'16	1.33673 AU
desc. node	1929 Aug 25 11:19	23°♿05'15			1930 Jul 19 02:44	0°♿	
	1929 Aug 30 06:01	0°♿		evening rise	1930 Jul 23 00:50	7°♿59'34	
evening max el	1929 Sep 12 17:04	16°♿06'35	26°47'36		1930 Aug 04 02:38	0°♿	
retrograde	1929 Sep 25 18:24	23°♿21'41		desc. node	1930 Aug 12 08:19	12°♿42'20	
evening set	1929 Oct 02 10:46	20°♿39'20		evening max el	1930 Aug 26 04:49	29°♿28'49	27°20'07
min. Earth dist.	1929 Oct 06 10:45	16°♿36'33	0.65790 AU		1930 Aug 26 18:04	0°♿	
inferior conj	1929 Oct 08 06:13	14°♿28'57	-1°57'18	retrograde	1930 Sep 08 16:32	6°♿47'16	
minimum elong	1929 Oct 08 09:21	14°♿19'45	1°56'03	evening set	1930 Sep 15 18:26	4°♿04'23	
morning rise	1929 Oct 14 08:33	8°♿47'28		min. Earth dist.	1930 Sep 19 12:08	0°♿37'15	0.64422 AU
asc. node	1929 Oct 14 02:19	8°♿55'59			1930 Sep 20 02:16	30°♿♿	
direct	1929 Oct 17 05:15	8°♿02'02		inferior conj	1930 Sep 21 20:21	28°♿06'46	-2°54'58
morning max el	1929 Oct 23 19:16	11°♿37'24	18°22'38	minimum elong	1930 Sep 22 00:54	27°♿54'32	2°53'23
	1929 Nov 05 19:29	0°♿		morning rise	1930 Sep 28 08:23	22°♿40'25	
morning set	1929 Nov 12 05:51	10°♿23'23		direct	1930 Sep 30 22:53	22°♿05'36	
desc. node	1929 Nov 21 10:40	25°♿09'01		asc. node	1930 Sep 30 23:23	22°♿05'36	
	1929 Nov 24 12:06	0°♿		morning max el	1930 Oct 07 11:01	25°♿32'18	17°58'20
					1930 Oct 11 04:45	0°♿	
superior conj	1929 Nov 27 14:02	4°♿51'30	-0°40'19	morning set	1930 Oct 24 19:02	21°♿53'33	
minimum elong	1929 Nov 27 08:50	4°♿31'01	0°39'39		1930 Oct 29 14:35	0°♿	
max. Earth dist.	1929 Nov 29 04:07	7°♿21'10	1.45139 AU				
evening rise	1929 Dec 13 19:30	0°♿18'51		superior conj	1930 Nov 07 02:49	13°♿58'29	0°08'07
	1929 Dec 13 14:42	0°♿		minimum elong	1930 Nov 07 03:46	14°♿02'18	0°07'59
greatest brilliancy	1929 Dec 24 08:51	16°♿49'56	-0.8m	behind sun begin	1930 Nov 06 18:42	13°♿25'43	
	1930 Jan 02 10:25	0°♿		behind sun end	1930 Nov 07 12:49	14°♿38'49	
evening max el	1930 Jan 06 00:33	4°♿12'44	19°15'17	desc. node	1930 Nov 08 07:40	15°♿54'33	
asc. node	1930 Jan 10 01:35	7°♿25'59		max. Earth dist.	1930 Nov 11 22:52	21°♿42'13	1.44633 AU
retrograde	1930 Jan 13 01:46	8°♿14'59			1930 Nov 17 05:31	0°♿	
evening set	1930 Jan 16 11:09	7°♿07'49		evening rise	1930 Nov 23 08:59	9°♿31'29	
inferior conj	1930 Jan 22 00:40	1°♿16'36	3°16'29		1930 Dec 06 20:57	0°♿	
minimum elong	1930 Jan 21 22:19	1°♿24'09	3°16'02	greatest brilliancy	1930 Dec 07 16:29	1°♿12'04	-0.6m
	1930 Jan 23 00:30	30°♿♿		evening max el	1930 Dec 20 04:48	17°♿42'16	20°11'00
min. Earth dist.	1930 Jan 23 09:28	29°♿31'25	0.66131 AU	retrograde	1930 Dec 27 23:38	22°♿16'28	
morning rise	1930 Jan 27 09:15	25°♿04'39		asc. node	1930 Dec 27 22:37	22°♿16'28	
direct	1930 Feb 02 17:43	22°♿16'32		evening set	1930 Dec 31 17:12	20°♿55'23	
morning max el	1930 Feb 15 09:37	29°♿46'02	26°13'35	inferior conj	1931 Jan 06 03:20	14°♿50'49	2°45'28
	1930 Feb 15 15:08	0°♿		minimum elong	1931 Jan 06 00:41	14°♿59'42	2°44'43
desc. node	1930 Feb 17 09:51	1°♿52'37		min. Earth dist.	1931 Jan 06 22:30	13°♿46'12	0.67068 AU

morning rise	1931 Jan 11 08:00	8°♂37'27		direct	1931 Dec 31 16:55	20°♂05'42	
direct	1931 Jan 17 02:52	6°♂03'01		morning max el	1932 Jan 11 03:12	26°♂18'16	23°26'29
morning max el	1931 Jan 28 18:25	12°♂59'59	24°54'24		1932 Jan 14 12:46	0°♂	
desc. node	1931 Feb 04 06:54	20°♂24'21		desc. node	1932 Jan 22 03:56	9°♂39'31	
	1931 Feb 11 12:27	0°♂			1932 Feb 05 02:36	0°♂	
	1931 Mar 02 17:28	0°♂		morning set	1932 Feb 15 06:13	16°♂25'25	
morning set	1931 Mar 05 21:53	5°♂34'10		max. Earth dist.	1932 Feb 19 08:15	23°♂26'23	1.39122 AU
max. Earth dist.	1931 Mar 09 13:37	12°♂11'29	1.37016 AU		1932 Feb 23 00:50	0°♂	
superior conj	1931 Mar 16 00:09	24°♂26'54	-1°29'28	superior conj	1932 Feb 26 21:26	7°♂05'02	-1°50'34
minimum elong	1931 Mar 16 04:18	24°♂47'14	1°28'54	minimum elong	1932 Feb 27 01:28	7°♂23'50	1°50'13
	1931 Mar 18 19:31	0°♂		evening rise	1932 Mar 07 04:50	24°♂54'40	
evening rise	1931 Mar 24 10:03	11°♂15'32			1932 Mar 09 20:21	0°♂	
asc. node	1931 Mar 25 21:55	14°♂14'16		asc. node	1932 Mar 11 18:59	3°♂39'26	
	1931 Apr 03 13:37	0°♂		evening max el	1932 Mar 23 11:56	21°♂10'26	18°40'34
evening max el	1931 Apr 10 11:10	8°♂53'10	19°26'56	retrograde	1932 Mar 31 10:27	25°♂02'54	
retrograde	1931 Apr 19 19:51	13°♂24'35		evening set	1932 Apr 02 17:32	24°♂44'39	
evening set	1931 Apr 21 21:23	13°♂12'21		inferior conj	1932 Apr 10 10:42	20°♂20'55	2°17'54
inferior conj	1931 Apr 30 10:08	9°♂06'11	0°48'29	minimum elong	1932 Apr 10 14:43	20°♂13'20	2°16'46
minimum elong	1931 Apr 30 12:08	9°♂02'56	0°47'47	min. Earth dist.	1932 Apr 13 19:22	17°♂49'46	0.57690 AU
min. Earth dist.	1931 May 03 01:50	7°♂23'20	0.55997 AU	morning rise	1932 Apr 18 08:47	15°♂04'28	
desc. node	1931 May 03 06:02	7°♂16'44		desc. node	1932 Apr 19 03:06	14°♂44'40	
morning rise	1931 May 09 00:03	4°♂22'54		direct	1932 Apr 24 00:45	13°♂44'35	
direct	1931 May 13 14:32	3°♂34'48		morning max el	1932 May 08 09:28	21°♂19'05	26°24'55
morning max el	1931 May 27 17:19	10°♂43'25	24°57'20		1932 May 15 22:49	0°♂	
	1931 Jun 11 07:27	0°♂			1932 Jun 02 23:05	0°♂	
asc. node	1931 Jun 21 21:12	19°♂57'51		morning set	1932 Jun 06 07:03	6°♂50'56	
morning set	1931 Jun 22 20:11	21°♂58'29		asc. node	1932 Jun 07 18:14	9°♂57'38	
	1931 Jun 26 13:49	0°♂		superior conj	1932 Jun 13 07:09	22°♂02'20	0°55'33
superior conj	1931 Jun 29 19:38	7°♂04'44	1°15'02	minimum elong	1932 Jun 13 05:02	21°♂50'41	0°55'09
minimum elong	1931 Jun 29 17:14	6°♂51'35	1°14'41	max. Earth dist.	1932 Jun 13 15:25	22°♂47'51	1.32302 AU
max. Earth dist.	1931 Jul 01 04:39	10°♂04'16	1.32790 AU		1932 Jun 16 22:30	0°♂	
evening rise	1931 Jul 07 00:07	22°♂22'12		evening rise	1932 Jun 20 05:47	7°♂02'26	
	1931 Jul 10 19:56	0°♂			1932 Jul 02 08:16	0°♂	
	1931 Jul 28 23:24	0°♂		desc. node	1932 Jul 16 02:23	19°♂43'06	
desc. node	1931 Jul 30 05:20	1°♂40'30		evening max el	1932 Jul 20 18:43	24°♂40'40	26°54'06
evening max el	1931 Aug 08 14:09	12°♂24'13	27°23'31		1932 Jul 27 20:38	0°♂	
retrograde	1931 Aug 22 08:33	19°♂41'26		retrograde	1932 Aug 03 17:13	1°♂54'28	
evening set	1931 Aug 29 13:32	17°♂09'59			1932 Aug 10 07:32	30°♂00'00	
min. Earth dist.	1931 Sep 02 03:41	14°♂12'41	0.62713 AU	evening set	1932 Aug 10 15:39	29°♂48'11	
inferior conj	1931 Sep 05 00:09	11°♂28'34	-3°48'26	min. Earth dist.	1932 Aug 14 08:53	27°♂08'57	0.60741 AU
minimum elong	1931 Sep 05 05:29	11°♂15'46	3°47'01	inferior conj	1932 Aug 17 14:17	24°♂25'52	-4°31'59
morning rise	1931 Sep 11 22:52	6°♂20'31		minimum elong	1932 Aug 17 18:54	24°♂16'05	4°31'13
direct	1931 Sep 14 09:44	5°♂53'02		morning rise	1932 Aug 24 24:00	19°♂38'52	
asc. node	1931 Sep 17 20:26	6°♂48'40		direct	1932 Aug 27 10:02	19°♂15'57	
morning max el	1931 Sep 21 02:59	9°♂19'26	17°51'50	morning max el	1932 Sep 03 16:02	22°♂50'40	18°04'15
	1931 Oct 04 18:27	0°♂		asc. node	1932 Sep 03 17:28	22°♂54'11	
morning set	1931 Oct 07 07:11	4°♂29'35			1932 Sep 09 07:20	0°♂	
superior conj	1931 Oct 18 16:52	24°♂20'52	0°49'34	morning set	1932 Sep 19 12:11	17°♂54'00	
minimum elong	1931 Oct 18 21:08	24°♂38'52	0°49'01		1932 Sep 26 01:15	0°♂	
	1931 Oct 22 02:08	0°♂		superior conj	1932 Sep 29 09:29	6°♂01'11	1°19'23
max. Earth dist.	1931 Oct 25 14:06	5°♂43'06	1.43460 AU	minimum elong	1932 Sep 29 13:46	6°♂20'12	1°18'56
desc. node	1931 Oct 26 04:41	6°♂41'59		max. Earth dist.	1932 Oct 07 00:24	19°♂10'19	1.41767 AU
evening rise	1931 Nov 02 17:35	18°♂36'57		desc. node	1932 Oct 12 01:43	27°♂28'04	
	1931 Nov 10 04:27	0°♂		evening rise	1932 Oct 12 14:19	28°♂18'41	
	1931 Dec 01 24:00	0°♂			1932 Oct 13 15:41	0°♂	
evening max el	1931 Dec 03 03:28	1°♂12'38	21°19'25		1932 Nov 02 20:28	0°♂	
retrograde	1931 Dec 11 21:11	6°♂24'10		evening max el	1932 Nov 14 20:58	14°♂45'21	22°36'23
asc. node	1931 Dec 14 19:41	5°♂36'18		retrograde	1932 Nov 24 16:40	20°♂35'24	
evening set	1931 Dec 16 00:46	4°♂47'42		evening set	1932 Nov 29 08:12	18°♂42'17	
	1931 Dec 20 07:59	30°♂00'00		asc. node	1932 Nov 30 16:43	17°♂25'56	
inferior conj	1931 Dec 21 09:21	28°♂33'05	2°06'11	inferior conj	1932 Dec 04 16:47	12°♂21'16	1°20'19
minimum elong	1931 Dec 21 06:57	28°♂41'24	2°05'20	minimum elong	1932 Dec 04 15:02	12°♂27'18	1°19'37
min. Earth dist.	1931 Dec 21 16:27	28°♂08'34	0.67626 AU	min. Earth dist.	1932 Dec 04 12:51	12°♂34'51	0.67828 AU
morning rise	1931 Dec 26 12:56	22°♂20'12		morning rise	1932 Dec 09 21:44	6°♂10'56	

direct	1932 Dec 14 10:54	4°♊19'05		morning rise	1933 Nov 24 08:19	20°♍06'52	
morning max el	1932 Dec 23 15:20	9°♊43'09	21°59'35	direct	1933 Nov 28 07:41	18°♍37'24	
desc. node	1933 Jan 08 00:59	29°♊26'06		morning max el	1933 Dec 06 10:11	23°♍18'10	20°40'54
	1933 Jan 08 10:25	0°♊			1933 Dec 12 03:43	0°♊	
morning set	1933 Jan 25 09:39	25°♊52'48		desc. node	1933 Dec 25 22:00	19°♊34'49	
	1933 Jan 27 22:39	0°♊			1934 Jan 01 18:40	0°♊	
max. Earth dist.	1933 Jan 31 06:09	5°♊28'34	1.41252 AU	morning set	1934 Jan 04 12:05	4°♊12'58	
				max. Earth dist.	1934 Jan 13 11:51	18°♊28'06	1.43104 AU
superior conj	1933 Feb 08 00:03	18°♊47'39	-2°03'13				
minimum elong	1933 Feb 08 01:56	18°♊56'00	2°03'10	superior conj	1934 Jan 20 02:41	29°♊22'00	-2°02'37
	1933 Feb 14 05:06	0°♊		minimum elong	1934 Jan 19 23:55	29°♊10'23	2°02'32
evening rise	1933 Feb 18 12:17	7°♊57'09			1934 Jan 20 11:44	0°♊	
asc. node	1933 Feb 26 16:02	22°♊39'39		evening rise	1934 Feb 01 04:20	20°♊14'12	
	1933 Mar 03 10:49	0°♊			1934 Feb 06 17:24	0°♊	
evening max el	1933 Mar 06 19:48	3°♊57'00	18°14'13	asc. node	1934 Feb 13 13:04	11°♊06'31	
retrograde	1933 Mar 13 19:43	7°♊27'12		evening max el	1934 Feb 18 07:26	17°♊03'24	18°07'30
evening set	1933 Mar 16 08:49	7°♊00'16		retrograde	1934 Feb 24 20:17	20°♊27'03	
inferior conj	1933 Mar 23 08:22	2°♊15'34	3°13'23	evening set	1934 Feb 27 14:35	19°♊50'09	
minimum elong	1933 Mar 23 11:31	2°♊08'38	3°12'50	inferior conj	1934 Mar 06 00:16	14°♊44'33	3°39'20
	1933 Mar 25 21:49	30°♊		minimum elong	1934 Mar 06 01:27	14°♊41'33	3°39'17
min. Earth dist.	1933 Mar 26 17:43	29°♊17'44	0.59775 AU	min. Earth dist.	1934 Mar 08 23:43	11°♊44'57	0.61901 AU
morning rise	1933 Mar 30 11:54	26°♊34'23		morning rise	1934 Mar 12 10:56	8°♊47'44	
direct	1933 Apr 05 23:35	24°♊37'49		direct	1934 Mar 19 08:25	6°♊19'46	
desc. node	1933 Apr 06 00:09	24°♊37'49		desc. node	1934 Mar 23 21:11	7°♊17'04	
	1933 Apr 17 15:27	0°♊		morning max el	1934 Apr 02 11:03	14°♊14'29	27°49'19
morning max el	1933 Apr 20 07:06	2°♊25'56	27°24'59		1934 Apr 15 04:14	0°♊	
	1933 May 10 07:42	0°♊			1934 May 02 18:45	0°♊	
morning set	1933 May 21 15:14	21°♊33'33		morning set	1934 May 05 18:45	5°♊59'51	
asc. node	1933 May 25 15:18	0°♊04'36		max. Earth dist.	1934 May 11 13:38	18°♊11'19	1.32476 AU
	1933 May 25 14:27	0°♊		asc. node	1934 May 12 12:21	20°♊14'23	
max. Earth dist.	1933 May 28 03:44	5°♊34'42	1.32198 AU				
superior conj	1933 May 28 18:49	6°♊57'33	0°32'44	superior conj	1934 May 13 04:56	21°♊44'39	0°07'19
minimum elong	1933 May 28 17:24	6°♊49'49	0°32'25	minimum elong	1934 May 13 04:36	21°♊42'47	0°07'14
evening rise	1933 Jun 04 15:25	21°♊52'25		behind sun begin	1934 May 12 24:00	21°♊17'44	
	1933 Jun 08 14:12	0°♊		behind sun end	1934 May 13 09:12	22°♊07'51	
	1933 Jun 27 01:12	0°♊			1934 May 16 23:43	0°♊	
evening max el	1933 Jul 02 16:25	6°♊10'43	25°52'38	evening rise	1934 May 20 03:00	6°♊45'08	
desc. node	1933 Jul 02 23:24	6°♊27'14			1934 Jun 01 08:22	0°♊	
retrograde	1933 Jul 16 16:37	13°♊20'12		evening max el	1934 Jun 14 07:42	16°♊59'07	24°27'00
evening set	1933 Jul 22 20:04	11°♊49'57		desc. node	1934 Jun 19 20:25	21°♊22'18	
min. Earth dist.	1933 Jul 27 04:50	9°♊11'59	0.58682 AU	retrograde	1934 Jun 28 04:57	24°♊00'07	
inferior conj	1933 Jul 30 11:11	6°♊48'52	-4°56'17	evening set	1934 Jul 03 00:59	23°♊07'46	
minimum elong	1933 Jul 30 12:43	6°♊46'03	4°56'13	min. Earth dist.	1934 Jul 08 18:40	20°♊13'32	0.56800 AU
morning rise	1933 Aug 07 07:36	2°♊24'38		inferior conj	1934 Jul 11 12:12	18°♊29'20	-4°48'06
direct	1933 Aug 09 19:32	2°♊04'13		minimum elong	1934 Jul 11 08:30	18°♊35'15	4°47'44
morning max el	1933 Aug 17 22:58	5°♊57'07	18°36'52	morning rise	1934 Jul 19 18:44	14°♊25'58	
asc. node	1933 Aug 21 14:31	10°♊07'05		direct	1934 Jul 22 10:21	14°♊06'52	
	1933 Sep 02 05:44	0°♊		morning max el	1934 Jul 31 20:55	18°♊30'14	19°30'43
morning set	1933 Sep 03 05:04	1°♊52'47		asc. node	1934 Aug 08 11:34	28°♊13'09	
					1934 Aug 09 13:49	0°♊	
superior conj	1933 Sep 11 23:56	18°♊45'58	1°37'23	morning set	1934 Aug 18 06:13	16°♊16'33	
minimum elong	1933 Sep 12 02:36	18°♊58'26	1°37'11		1934 Aug 25 02:18	0°♊	
	1933 Sep 18 03:48	0°♊		superior conj	1934 Aug 26 06:43	2°♊20'17	1°45'08
max. Earth dist.	1933 Sep 19 06:07	1°♊55'51	1.39773 AU	minimum elong	1934 Aug 26 07:29	2°♊24'00	1°45'07
evening rise	1933 Sep 23 09:27	9°♊02'19		max. Earth dist.	1934 Sep 01 10:05	14°♊03'53	1.37734 AU
desc. node	1933 Sep 28 22:44	18°♊08'42		evening rise	1934 Sep 05 04:25	20°♊53'05	
	1933 Oct 06 15:04	0°♊			1934 Sep 10 11:29	0°♊	
evening max el	1933 Oct 28 10:43	28°♊20'52	23°56'26	desc. node	1934 Sep 15 19:45	8°♊39'58	
	1933 Oct 30 04:27	0°♊			1934 Sep 30 14:46	0°♊	
retrograde	1933 Nov 08 08:48	4°♊46'15		evening max el	1934 Oct 10 22:43	11°♊59'31	25°12'46
evening set	1933 Nov 13 13:52	2°♊35'56		retrograde	1934 Oct 22 20:44	18°♊52'49	
	1933 Nov 16 02:07	30°♊		evening set	1934 Oct 28 16:07	16°♊26'36	
asc. node	1933 Nov 17 13:45	28°♊07'01		min. Earth dist.	1934 Nov 02 03:24	11°♊26'52	0.67222 AU
inferior conj	1933 Nov 18 23:47	26°♊12'24	0°29'09	inferior conj	1934 Nov 03 04:40	10°♊04'34	-0°25'57
minimum elong	1933 Nov 18 23:06	26°♊14'45	0°28'52	minimum elong	1934 Nov 03 05:19	10°♊02'25	0°25'40
min. Earth dist.	1933 Nov 18 09:17	27°♊01'37	0.67691 AU	asc. node	1934 Nov 04 10:47	8°♊27'46	

morning rise	1934 Nov 08 18:44	4°♍06'14		min. Earth dist.	1935 Oct 16 16:55	25°♎46'53	0.66408 AU
direct	1934 Nov 12 05:58	2°♍56'50		inferior conj	1935 Oct 18 05:33	23°♎54'32	-1°23'38
morning max el	1934 Nov 19 12:56	7°♍04'14	19°35'00	minimum elong	1935 Oct 18 07:45	23°♎47'44	1°22'43
greatest brilliancy	1934 Dec 02 20:20	24°♍49'02	-0.7m	asc. node	1935 Oct 22 07:49	19°♎24'43	
	1934 Dec 06 06:41	0°♌		morning rise	1935 Oct 24 02:57	18°♎06'03	
desc. node	1934 Dec 12 19:02	9°♌59'34		direct	1935 Oct 27 04:11	17°♎13'06	
morning set	1934 Dec 14 09:21	12°♌27'35		morning max el	1935 Nov 02 22:33	20°♎57'44	18°44'19
	1934 Dec 25 14:59	0°♋			1935 Nov 10 01:24	0°♍	
max. Earth dist.	1934 Dec 27 00:35	2°♋12'54	1.44432 AU	morning set	1935 Nov 24 01:31	21°♍44'00	
					1935 Nov 29 07:05	0°♌	
superior conj	1934 Dec 31 02:54	8°♋44'55	-1°44'11	desc. node	1935 Nov 29 16:04	0°♌35'22	
minimum elong	1934 Dec 30 19:03	8°♋13'26	1°43'32	max. Earth dist.	1935 Dec 09 17:46	16°♌25'07	1.45084 AU
	1935 Jan 13 01:20	0°♋					
evening rise	1935 Jan 14 00:43	1°♋38'12		superior conj	1935 Dec 10 07:28	17°♌18'58	-1°07'17
asc. node	1935 Jan 31 10:05	28°♋50'10		minimum elong	1935 Dec 09 23:27	16°♌47'26	1°06'21
	1935 Feb 01 11:16	0°♊			1935 Dec 18 08:28	0°♋	
evening max el	1935 Feb 01 19:56	0°♊22'22	18°19'48	evening rise	1935 Dec 25 22:04	12°♋04'23	
retrograde	1935 Feb 08 07:25	3°♊52'40		greatest brilliancy	1936 Jan 02 01:13	23°♋31'36	-0.9m
evening set	1935 Feb 11 06:51	3°♊04'56			1936 Jan 06 03:32	0°♋	
	1935 Feb 15 03:02	30°♊		evening max el	1936 Jan 16 06:51	13°♋48'37	18°50'15
inferior conj	1935 Feb 17 06:21	27°♋40'04	3°42'50	asc. node	1936 Jan 18 07:07	15°♋38'17	
minimum elong	1935 Feb 17 05:42	27°♋41'55	3°42'48	retrograde	1936 Jan 23 01:05	17°♋36'34	
min. Earth dist.	1935 Feb 19 15:15	24°♋59'32	0.63823 AU	evening set	1936 Jan 26 06:25	16°♋37'00	
morning rise	1935 Feb 23 03:49	21°♋34'16		inferior conj	1936 Jan 31 22:51	10°♋54'55	3°29'48
direct	1935 Mar 02 01:37	18°♋47'08		minimum elong	1936 Jan 31 20:56	11°♋00'50	3°29'32
desc. node	1935 Mar 10 18:13	22°♋16'37		min. Earth dist.	1936 Feb 02 16:17	8°♋47'08	0.65398 AU
morning max el	1935 Mar 15 19:23	26°♋41'30	27°36'32	morning rise	1936 Feb 06 11:04	4°♋44'23	
	1935 Mar 18 21:53	0°♊		direct	1936 Feb 13 01:57	1°♋52'34	
	1935 Apr 08 18:40	0°♑		desc. node	1936 Feb 25 15:15	9°♋01'00	
morning set	1935 Apr 19 15:08	20°♑01'18		morning max el	1936 Feb 26 05:13	9°♋35'41	26°51'15
max. Earth dist.	1935 Apr 24 16:59	0°♑23'35	1.33169 AU		1936 Mar 13 06:40	0°♊	
	1935 Apr 24 12:29	0°♑			1936 Mar 31 05:08	0°♑	
				morning set	1936 Apr 02 01:10	3°♑28'14	
superior conj	1935 Apr 27 11:41	6°♑17'05	-0°19'56	max. Earth dist.	1936 Apr 06 10:04	12°♑02'29	1.34315 AU
minimum elong	1935 Apr 27 12:40	6°♑22'21	0°19'44				
asc. node	1935 Apr 29 09:22	10°♑22'19		superior conj	1936 Apr 10 13:01	20°♑28'50	-0°47'53
evening rise	1935 May 04 14:39	21°♑33'24		minimum elong	1936 Apr 10 15:26	20°♑41'25	0°47'24
	1935 May 08 17:20	0°♐		asc. node	1936 Apr 15 06:25	0°♑24'36	
evening max el	1935 May 26 21:46	27°♐28'07	22°51'05		1936 Apr 15 01:45	0°♑	
	1935 May 29 19:26	0°♐		evening rise	1936 Apr 18 00:32	6°♑11'22	
desc. node	1935 Jun 06 17:26	3°♐51'22			1936 May 01 01:29	0°♐	
retrograde	1935 Jun 09 05:06	4°♐05'29		evening max el	1936 May 07 18:28	8°♐10'34	21°19'38
evening set	1935 Jun 12 13:26	3°♐40'52		retrograde	1936 May 19 19:26	14°♐03'25	
min. Earth dist.	1935 Jun 20 06:24	0°♐16'36	0.55438 AU	evening set	1936 May 22 03:08	13°♐51'03	
	1935 Jun 20 17:58	30°♐		desc. node	1936 May 23 14:26	13°♐31'06	
inferior conj	1935 Jun 21 18:04	29°♐25'15	-3°54'29	inferior conj	1936 May 31 12:37	9°♐51'35	-2°15'48
minimum elong	1935 Jun 21 10:23	29°♐36'20	3°52'40	minimum elong	1936 May 31 06:26	10°♐00'17	2°13'41
morning rise	1935 Jun 30 09:44	25°♐33'03		min. Earth dist.	1936 May 31 18:39	9°♐43'07	0.54909 AU
direct	1935 Jul 03 06:24	25°♐13'54		morning rise	1936 Jun 09 10:08	5°♐52'48	
	1935 Jul 13 22:22	0°♐		direct	1936 Jun 12 16:35	5°♐29'35	
morning max el	1935 Jul 14 07:45	0°♐21'23	20°45'33	morning max el	1936 Jun 25 07:34	11°♐29'02	22°17'59
asc. node	1935 Jul 26 08:36	16°♐59'09			1936 Jul 08 20:47	0°♐	
	1935 Aug 02 01:48	0°♏		asc. node	1936 Jul 12 05:40	6°♐15'15	
morning set	1935 Aug 02 12:53	0°♏56'47		morning set	1936 Jul 16 22:57	15°♐47'41	
					1936 Jul 23 15:39	0°♏	
superior conj	1935 Aug 10 01:06	16°♏29'24	1°44'33				
minimum elong	1935 Aug 10 00:17	16°♏25'12	1°44'32	superior conj	1936 Jul 24 03:28	1°♏02'30	1°37'14
max. Earth dist.	1935 Aug 14 17:44	25°♏53'52	1.35881 AU	minimum elong	1936 Jul 24 01:36	0°♏52'37	1°37'06
	1935 Aug 16 20:39	0°♎		max. Earth dist.	1936 Jul 27 09:55	7°♏51'52	1.34371 AU
evening rise	1935 Aug 18 19:40	3°♎41'48		evening rise	1936 Aug 01 02:34	17°♏16'24	
desc. node	1935 Sep 02 16:45	28°♎55'55			1936 Aug 07 22:59	0°♎	
	1935 Sep 03 09:33	0°♎		desc. node	1936 Aug 19 13:46	18°♎49'41	
evening max el	1935 Sep 23 10:37	25°♎38'11	26°18'04		1936 Aug 27 17:43	0°♎	
	1935 Sep 28 15:52	0°♍		evening max el	1936 Sep 04 22:52	9°♎09'58	27°04'39
retrograde	1935 Oct 06 03:54	2°♍49'01		retrograde	1936 Sep 18 05:33	16°♎27'48	
evening set	1935 Oct 12 13:03	0°♍10'40		evening set	1936 Sep 25 02:22	13°♎44'08	
	1935 Oct 12 18:03	30°♌		min. Earth dist.	1936 Sep 28 23:32	9°♎56'35	0.65246 AU

inferior conj	1936 Oct 01 00:19	7° Ω 38'25	-2°22'03	retrograde	1937 Sep 01 01:08	29° Π 41'11	
minimum elong	1936 Oct 01 04:06	7° Ω 27'41	2°20'38	evening set	1937 Sep 08 05:11	27° Π 02'00	
morning rise	1936 Oct 07 06:37	2° Ω 02'48		min. Earth dist.	1937 Sep 11 21:03	23° Π 48'16	0.63734 AU
asc. node	1936 Oct 08 04:53	1° Ω 40'09		inferior conj	1937 Sep 14 10:30	21° Π 10'56	-3°18'27
direct	1936 Oct 10 00:17	1° Ω 22'25		minimum elong	1937 Sep 14 15:30	20° Π 58'04	3°16'53
morning max el	1936 Oct 16 12:48	4° Ω 53'26	18°10'07	morning rise	1937 Sep 21 02:58	15° Π 51'37	
	1936 Nov 02 11:00	0° Π		direct	1937 Sep 23 15:38	15° Π 20'12	
morning set	1936 Nov 03 22:47	2° Π 27'33		asc. node	1937 Sep 25 01:56	15° Π 30'26	
desc. node	1936 Nov 15 13:04	21° Π 18'06		morning max el	1937 Sep 30 05:00	18° Π 45'50	17°53'17
					1937 Oct 08 10:11	0° Ω	
superior conj	1936 Nov 18 11:06	25° Π 56'47	-0°19'30	morning set	1937 Oct 16 22:38	14° Ω 28'48	
minimum elong	1936 Nov 18 08:37	25° Π 46'54	0°19'09		1937 Oct 26 01:14	0° Π	
	1936 Nov 21 00:39	0° Σ					
max. Earth dist.	1936 Nov 21 12:38	0° Σ 47'11	1.45006 AU	superior conj	1937 Oct 29 09:48	5° Π 33'30	0°26'58
evening rise	1936 Dec 04 20:59	21° Σ 37'23		minimum elong	1937 Oct 29 12:38	5° Π 45'07	0°26'35
	1936 Dec 10 06:39	0° Σ		desc. node	1937 Nov 02 10:06	12° Π 04'52	
greatest brilliancy	1936 Dec 17 11:18	11° Σ 01'01	-0.7m	max. Earth dist.	1937 Nov 04 06:34	15° Π 03'07	1.44212 AU
evening max el	1936 Dec 29 14:03	27° Σ 17'36	19°37'22		1937 Nov 13 19:25	0° Σ	
	1937 Jan 01 16:41	0° \approx		evening rise	1937 Nov 14 06:24	0° Σ 42'19	
asc. node	1937 Jan 04 04:10	1° \approx 15'42			1937 Dec 03 23:51	0° Σ	
retrograde	1937 Jan 05 22:03	1° \approx 32'27		evening max el	1937 Dec 12 16:05	10° Σ 47'52	20°38'49
evening set	1937 Jan 09 10:41	0° \approx 19'39		retrograde	1937 Dec 20 19:54	15° Σ 36'57	
	1937 Jan 09 21:28	30° \Re Σ		asc. node	1937 Dec 22 01:13	15° Σ 28'36	
inferior conj	1937 Jan 14 22:32	24° Σ 22'42	3°04'28	evening set	1937 Dec 24 17:36	14° Σ 09'22	
minimum elong	1937 Jan 14 20:00	24° Σ 31'03	3°03'52	inferior conj	1937 Dec 30 02:53	8° Σ 00'17	2°29'40
min. Earth dist.	1937 Jan 16 01:26	22° Σ 54'23	0.66576 AU	minimum elong	1937 Dec 30 00:17	8° Σ 09'09	2°28'52
morning rise	1937 Jan 20 05:04	18° Σ 09'59		min. Earth dist.	1937 Dec 30 16:44	7° Σ 12'59	0.67356 AU
direct	1937 Jan 26 08:10	15° Σ 26'20		morning rise	1938 Jan 04 06:47	1° Σ 47'09	
morning max el	1937 Feb 07 14:18	22° Σ 43'45	25°41'36		1938 Jan 06 21:37	30° \Re Σ	
desc. node	1937 Feb 11 12:18	26° Σ 59'38		direct	1938 Jan 09 19:29	29° Σ 20'38	
	1937 Feb 14 00:26	0° \approx			1938 Jan 12 22:30	0° Σ	
	1937 Mar 06 14:06	0° \Re		morning max el	1938 Jan 20 22:40	5° Σ 58'57	24°17'29
morning set	1937 Mar 15 20:28	16° \Re 06'48		desc. node	1938 Jan 29 09:21	15° Σ 51'14	
max. Earth dist.	1937 Mar 19 15:21	23° \Re 11'05	1.35918 AU		1938 Feb 08 13:17	0° \approx	
	1937 Mar 23 03:41	0° Υ		morning set	1938 Feb 25 19:21	27° \approx 41'28	
					1938 Feb 27 03:00	0° \Re	
superior conj	1937 Mar 25 06:16	4° Υ 11'35	-1°15'02	max. Earth dist.	1938 Mar 01 12:14	4° \Re 14'56	1.37895 AU
minimum elong	1937 Mar 25 09:56	4° Υ 30'03	1°14'25				
evening rise	1937 Apr 02 06:32	20° Υ 31'58		superior conj	1938 Mar 08 12:02	17° \Re 16'16	-1°39'11
asc. node	1937 Apr 02 03:28	20° Υ 16'19		minimum elong	1938 Mar 08 16:19	17° \Re 36'50	1°38'41
	1937 Apr 07 01:09	0° Σ			1938 Mar 15 00:02	0° Υ	
evening max el	1937 Apr 20 02:21	19° Σ 27'20	20°02'40	evening rise	1938 Mar 17 06:15	4° Υ 28'25	
retrograde	1937 Apr 30 10:03	24° Σ 26'35		asc. node	1938 Mar 20 00:31	9° Υ 52'42	
evening set	1937 May 02 10:42	24° Σ 15'54			1938 Apr 01 13:24	0° Σ	
desc. node	1937 May 10 11:29	20° Σ 49'43		evening max el	1938 Apr 02 21:33	1° Σ 23'27	19°04'43
inferior conj	1937 May 11 09:44	20° Σ 16'28	-0°16'12	retrograde	1938 Apr 11 14:11	5° Σ 36'19	
minimum elong	1937 May 11 08:59	20° Σ 17'35	0°15'56	evening set	1938 Apr 13 18:00	5° Σ 21'49	
transit middle	1937 May 11 08:59	20° Σ 17'35	0°15'56	inferior conj	1938 Apr 21 22:22	1° Σ 08'34	1°30'29
transit begin	1937 May 11 08:53	20° Σ 17'45		minimum elong	1938 Apr 22 01:40	1° Σ 02'51	1°29'24
transit end	1937 May 11 09:06	20° Σ 17'25			1938 Apr 23 13:56	30° \Re Υ	
min. Earth dist.	1937 May 13 08:02	19° Σ 07'02	0.55346 AU	min. Earth dist.	1938 Apr 24 23:19	29° Υ 03'26	0.56650 AU
morning rise	1937 May 20 05:22	15° Σ 53'00		desc. node	1938 Apr 27 08:32	27° Υ 34'55	
direct	1937 May 24 06:16	15° Σ 17'19		morning rise	1938 Apr 30 06:18	26° Υ 10'52	
morning max el	1937 Jun 06 23:40	22° Σ 03'52	23°59'47	direct	1938 May 05 07:54	25° Υ 10'42	
	1937 Jun 13 22:27	0° Π			1938 May 16 17:46	0° Σ	
asc. node	1937 Jun 29 02:43	25° Π 53'24		morning max el	1938 May 19 14:11	2° Σ 31'09	25°37'13
morning set	1937 Jul 01 10:40	0° Ω 43'44			1938 Jun 08 00:32	0° Π	
	1937 Jul 01 02:21	0° Ω		morning set	1938 Jun 15 22:19	15° Π 39'20	
				asc. node	1938 Jun 15 23:46	15° Π 46'57	
superior conj	1937 Jul 08 11:05	15° Ω 50'49	1°24'29				
minimum elong	1937 Jul 08 08:43	15° Ω 38'03	1°24'11	superior conj	1938 Jun 22 21:41	0° Ω 46'49	1°07'14
max. Earth dist.	1937 Jul 10 11:28	20° Ω 10'57	1.33255 AU	minimum elong	1938 Jun 22 19:21	0° Ω 34'00	1°06'49
	1937 Jul 15 04:11	0° Ω			1938 Jun 22 13:09	0° Ω	
evening rise	1937 Jul 15 20:54	1° Ω 24'38		max. Earth dist.	1938 Jun 23 20:01	2° Ω 49'01	1.32539 AU
	1937 Jul 31 21:07	0° Π		evening rise	1938 Jun 29 23:13	15° Ω 55'41	
desc. node	1937 Aug 06 10:47	8° Π 11'55			1938 Jul 07 03:21	0° Ω	
evening max el	1937 Aug 18 10:11	22° Π 23'35	27°25'29	desc. node	1938 Jul 24 07:50	26° Ω 48'49	

	1938 Jul 26 22:55	0° \mathbb{M}		evening max el	1939 Jul 13 19:29	17° \mathbb{O} 00'36	26°31'29
evening max el	1938 Jul 31 17:55	5° \mathbb{M} 04'04	27°15'05	retrograde	1939 Jul 27 18:54	24° \mathbb{O} 13'14	
retrograde	1938 Aug 14 13:51	12° \mathbb{M} 19'08		evening set	1939 Aug 03 11:06	22° \mathbb{O} 20'52	
evening set	1938 Aug 21 17:38	9° \mathbb{M} 56'45		min. Earth dist.	1939 Aug 07 08:49	19° \mathbb{O} 44'42	0.59868 AU
min. Earth dist.	1938 Aug 25 08:01	7° \mathbb{M} 09'07	0.61904 AU	inferior conj	1939 Aug 10 16:10	17° \mathbb{O} 07'19	-4°45'20
inferior conj	1938 Aug 28 08:57	4° \mathbb{M} 23'32	-4°08'35	minimum elong	1939 Aug 10 19:48	17° \mathbb{O} 00'05	4°44'54
minimum elong	1938 Aug 28 14:13	4° \mathbb{M} 11'32	4°07'23	morning rise	1939 Aug 18 06:33	12° \mathbb{O} 30'20	
	1938 Sep 03 02:58	30° \mathbb{R} \mathbb{O}		direct	1939 Aug 20 17:07	12° \mathbb{O} 08'42	
morning rise	1938 Sep 04 12:20	29° \mathbb{O} 24'07		morning max el	1939 Aug 28 07:01	15° \mathbb{O} 49'27	18°15'35
direct	1938 Sep 06 22:39	28° \mathbb{O} 58'44		asc. node	1939 Aug 29 20:02	17° \mathbb{O} 26'26	
	1938 Sep 10 15:38	0° \mathbb{M}			1939 Sep 07 04:58	0° \mathbb{M}	
asc. node	1938 Sep 11 22:59	0° \mathbb{M} 50'19		morning set	1939 Sep 13 05:13	11° \mathbb{M} 07'40	
morning max el	1938 Sep 13 20:07	2° \mathbb{M} 27'11	17°54'45				
morning set	1938 Sep 29 18:41	27° \mathbb{M} 27'32		superior conj	1939 Sep 22 14:11	28° \mathbb{M} 40'08	1°28'23
	1938 Oct 01 04:19	0° \mathbb{O}		minimum elong	1939 Sep 22 17:53	28° \mathbb{M} 56'56	1°28'02
					1939 Sep 23 07:48	0° \mathbb{O}	
superior conj	1938 Oct 10 11:33	16° \mathbb{O} 30'12	1°03'44	max. Earth dist.	1939 Sep 30 04:21	12° \mathbb{O} 02'16	1.40942 AU
minimum elong	1938 Oct 10 16:08	16° \mathbb{O} 49'57	1°03'10	evening rise	1939 Oct 04 23:53	20° \mathbb{O} 04'13	
max. Earth dist.	1938 Oct 17 20:27	28° \mathbb{O} 53'29	1.42796 AU	desc. node	1939 Oct 07 04:10	23° \mathbb{O} 36'00	
	1938 Oct 18 12:43	0° \mathbb{M}			1939 Oct 11 05:20	0° \mathbb{M}	
desc. node	1938 Oct 20 07:08	2° \mathbb{M} 52'00			1939 Nov 01 07:03	0° \mathbb{X}	
evening rise	1938 Oct 24 18:22	9° \mathbb{M} 58'32		evening max el	1939 Nov 08 03:52	7° \mathbb{X} 51'17	23°10'21
	1938 Nov 06 23:33	0° \mathbb{X}		retrograde	1939 Nov 18 11:05	13° \mathbb{X} 57'42	
evening max el	1938 Nov 25 12:24	24° \mathbb{X} 18'35	21°51'20	evening set	1939 Nov 23 08:11	11° \mathbb{X} 57'07	
retrograde	1938 Dec 04 16:46	29° \mathbb{X} 46'27		asc. node	1939 Nov 25 19:17	9° \mathbb{X} 24'46	
asc. node	1938 Dec 08 22:15	28° \mathbb{X} 08'49		inferior conj	1939 Nov 28 17:10	5° \mathbb{X} 34'14	0°59'10
evening set	1938 Dec 09 01:19	28° \mathbb{X} 02'45		minimum elong	1939 Nov 28 15:49	5° \mathbb{X} 38'50	0°58'37
inferior conj	1938 Dec 14 09:43	21° \mathbb{X} 44'49	1°47'25	min. Earth dist.	1939 Nov 28 08:40	6° \mathbb{X} 03'30	0.67809 AU
minimum elong	1938 Dec 14 07:32	21° \mathbb{X} 52'21	1°46'37		1939 Dec 03 07:22	30° \mathbb{R} \mathbb{M}	
min. Earth dist.	1938 Dec 14 11:56	21° \mathbb{X} 37'08	0.67757 AU	morning rise	1939 Dec 03 23:23	29° \mathbb{M} 25'34	
morning rise	1938 Dec 19 13:37	15° \mathbb{X} 32'58		direct	1939 Dec 08 06:23	27° \mathbb{M} 43'39	
direct	1938 Dec 24 11:09	13° \mathbb{X} 28'14			1939 Dec 13 19:16	0° \mathbb{X}	
morning max el	1939 Jan 03 08:34	19° \mathbb{X} 19'49	22°48'57	morning max el	1939 Dec 16 23:20	2° \mathbb{X} 48'44	21°24'42
	1939 Jan 12 07:57	0° \mathbb{Z}		desc. node	1940 Jan 03 03:25	25° \mathbb{X} 17'03	
desc. node	1939 Jan 16 06:23	5° \mathbb{Z} 20'35			1940 Jan 06 07:56	0° \mathbb{Z}	
	1939 Feb 01 17:57	0° \approx		morning set	1940 Jan 17 07:06	16° \mathbb{Z} 50'56	
morning set	1939 Feb 06 15:43	7° \approx 57'07		max. Earth dist.	1940 Jan 24 08:25	28° \mathbb{Z} 13'23	1.42083 AU
max. Earth dist.	1939 Feb 11 07:50	15° \approx 48'32	1.40041 AU		1940 Jan 25 10:14	0° \approx	
superior conj	1939 Feb 19 01:59	29° \approx 31'51	-1°57'13	superior conj	1940 Jan 31 18:54	10° \approx 45'44	-2°04'53
minimum elong	1939 Feb 19 05:25	29° \approx 47'28	1°57'01	minimum elong	1940 Jan 31 19:05	10° \approx 46'33	2°04'54
	1939 Feb 19 08:09	0° \mathbb{H}		evening rise	1940 Feb 11 22:05	0° \mathbb{H} 36'43	
evening rise	1939 Feb 28 20:40	17° \mathbb{H} 53'01			1940 Feb 11 14:01	0° \mathbb{H}	
asc. node	1939 Mar 06 21:34	29° \mathbb{H} 08'06		asc. node	1940 Feb 21 18:36	17° \mathbb{H} 54'53	
	1939 Mar 07 09:14	0° \mathbb{Y}		evening max el	1940 Feb 28 11:25	26° \mathbb{H} 49'10	18°09'03
evening max el	1939 Mar 17 01:39	13° \mathbb{Y} 53'50	18°26'56		1940 Mar 04 10:09	0° \mathbb{Y}	
retrograde	1939 Mar 24 13:17	17° \mathbb{Y} 35'16		retrograde	1940 Mar 06 05:32	0° \mathbb{Y} 15'03	
evening set	1939 Mar 26 22:53	17° \mathbb{Y} 13'38			1940 Mar 08 01:26	30° \mathbb{R} \mathbb{H}	
inferior conj	1939 Apr 03 08:07	12° \mathbb{Y} 40'54	2°45'27	evening set	1940 Mar 08 20:46	29° \mathbb{H} 44'09	
minimum elong	1939 Apr 03 12:00	12° \mathbb{Y} 33'01	2°44'32	inferior conj	1940 Mar 15 13:58	24° \mathbb{H} 50'42	3°27'35
min. Earth dist.	1939 Apr 06 18:36	9° \mathbb{Y} 55'27	0.58541 AU	minimum elong	1940 Mar 15 16:19	24° \mathbb{H} 45'11	3°27'18
morning rise	1939 Apr 10 22:17	7° \mathbb{Y} 12'28		min. Earth dist.	1940 Mar 18 20:10	21° \mathbb{H} 48'47	0.60682 AU
desc. node	1939 Apr 14 05:35	5° \mathbb{Y} 57'00		morning rise	1940 Mar 22 09:54	19° \mathbb{H} 01'37	
direct	1939 Apr 16 23:26	5° \mathbb{Y} 37'17		direct	1940 Mar 29 02:57	16° \mathbb{H} 50'14	
morning max el	1939 May 01 08:38	13° \mathbb{Y} 18'55	26°54'38	desc. node	1940 Mar 31 02:37	17° \mathbb{H} 01'10	
	1939 May 14 13:43	0° \mathbb{B}		morning max el	1940 Apr 12 09:06	24° \mathbb{H} 43'02	27°40'01
morning set	1939 May 31 08:18	0° \mathbb{I} 29'01			1940 Apr 17 04:56	0° \mathbb{Y}	
	1939 May 31 02:45	0° \mathbb{I}			1940 May 06 21:14	0° \mathbb{B}	
asc. node	1939 Jun 02 20:49	5° \mathbb{I} 50'45		morning set	1940 May 14 14:44	15° \mathbb{B} 05'19	
				asc. node	1940 May 19 17:51	25° \mathbb{B} 59'13	
superior conj	1939 Jun 07 09:29	15° \mathbb{I} 44'32	0°46'15	max. Earth dist.	1940 May 20 19:35	28° \mathbb{B} 19'21	1.32258 AU
minimum elong	1939 Jun 07 07:37	15° \mathbb{I} 34'16	0°45'52				
max. Earth dist.	1939 Jun 07 08:01	15° \mathbb{I} 36'25	1.32208 AU	superior conj	1940 May 21 20:41	0° \mathbb{I} 36'46	0°22'14
	1939 Jun 13 23:01	0° \mathbb{B}		minimum elong	1940 May 21 19:41	0° \mathbb{I} 31'19	0°22'01
evening rise	1939 Jun 14 06:50	0° \mathbb{B} 41'11			1940 May 21 13:59	0° \mathbb{I}	
	1939 Jun 30 06:41	0° \mathbb{O}		evening rise	1940 May 28 17:29	15° \mathbb{I} 32'35	
desc. node	1939 Jul 11 04:51	14° \mathbb{O} 21'36			1940 Jun 04 22:29	0° \mathbb{B}	

evening max el	1940 Jun 24 13:59	28° ☿ 10'47	25°18'30	minimum elong	1941 May 06 05:48	15° ♄ 19'04	0°04'04
	1940 Jun 26 14:32	0° ♁		behind sun begin	1941 May 06 00:44	14° ♄ 51'41	
desc. node	1940 Jun 27 01:51	0° ♁ 23'25		behind sun end	1941 May 06 10:52	15° ♄ 46'28	
retrograde	1940 Jul 08 14:17	5° ♁ 18'29		asc. node	1941 May 06 14:54	16° ♄ 08'21	
evening set	1940 Jul 14 05:25	4° ♁ 04'52		evening rise	1941 May 13 05:17	0° ♁ 23'36	
min. Earth dist.	1940 Jul 19 01:53	1° ♁ 21'42	0.57839 AU		1941 May 13 00:50	0° ♁	
	1940 Jul 21 01:39	30° ♄			1941 May 29 17:32	0° ☿	
inferior conj	1940 Jul 22 04:47	29° ☿ 12'47	-4°57'40	evening max el	1941 Jun 06 04:03	8° ☿ 47'21	23°46'37
minimum elong	1940 Jul 22 04:15	29° ☿ 13'42	4°57'40	desc. node	1941 Jun 13 22:53	14° ☿ 20'16	
morning rise	1940 Jul 30 05:36	24° ☿ 58'02		retrograde	1941 Jun 19 21:17	15° ☿ 40'08	
direct	1940 Aug 01 18:42	24° ☿ 38'28		evening set	1941 Jun 24 01:36	15° ☿ 01'42	
morning max el	1940 Aug 10 10:31	28° ☿ 43'01	18°57'06	min. Earth dist.	1941 Jun 30 14:36	11° ☿ 56'05	0.56137 AU
	1940 Aug 11 17:06	0° ♁		inferior conj	1941 Jul 02 21:11	10° ☿ 33'26	-4°31'25
asc. node	1940 Aug 15 17:04	5° ♁ 03'25		minimum elong	1941 Jul 02 15:21	10° ☿ 42'20	4°30'30
morning set	1940 Aug 27 01:58	25° ♁ 17'43		morning rise	1941 Jul 11 07:43	6° ☿ 36'04	
	1940 Aug 29 11:11	0° ♄		direct	1941 Jul 14 01:15	6° ☿ 17'07	
				morning max el	1941 Jul 24 03:47	10° ☿ 58'12	20°00'02
superior conj	1940 Sep 04 12:13	11° ♄ 47'38	1°41'47	asc. node	1941 Aug 02 14:07	23° ☿ 27'33	
minimum elong	1940 Sep 04 14:03	11° ♄ 56'27	1°41'41		1941 Aug 06 05:57	0° ♁	
max. Earth dist.	1940 Sep 11 08:13	24° ♄ 28'00	1.38897 AU	morning set	1941 Aug 11 05:46	9° ♁ 49'04	
	1940 Sep 14 11:34	0° ♁					
evening rise	1940 Sep 15 05:24	1° ♁ 17'00		superior conj	1941 Aug 19 00:23	25° ♁ 37'41	1°45'47
desc. node	1940 Sep 23 01:10	14° ♁ 13'07		minimum elong	1941 Aug 19 00:25	25° ♁ 37'50	1°45'48
	1940 Oct 03 12:14	0° ♄			1941 Aug 21 05:18	0° ♄	
evening max el	1940 Oct 20 16:37	21° ♄ 28'20	24°29'49	max. Earth dist.	1941 Aug 24 13:11	6° ♄ 25'32	1.36916 AU
retrograde	1940 Nov 01 01:39	28° ♄ 07'12		evening rise	1941 Aug 28 09:33	13° ♄ 33'49	
evening set	1940 Nov 06 12:37	25° ♄ 50'05			1941 Sep 06 23:58	0° ♁	
min. Earth dist.	1940 Nov 11 04:31	20° ♄ 29'58	0.67528 AU	desc. node	1941 Sep 09 22:10	4° ♁ 38'30	
inferior conj	1940 Nov 11 23:30	19° ♄ 26'29	0°06'12		1941 Sep 28 09:21	0° ♄	
minimum elong	1940 Nov 11 23:21	19° ♄ 26'59	0°06'08	evening max el	1941 Oct 03 04:39	5° ♄ 08'15	25°42'26
transit middle	1940 Nov 11 23:21	19° ♄ 26'59	0°06'08	retrograde	1941 Oct 15 11:30	12° ♄ 09'46	
transit begin	1940 Nov 11 20:49	19° ♄ 35'29		evening set	1941 Oct 21 12:50	9° ♄ 38'05	
transit end	1940 Nov 12 01:53	19° ♄ 18'30		min. Earth dist.	1941 Oct 25 21:02	4° ♄ 53'19	0.66919 AU
asc. node	1940 Nov 11 16:18	19° ♄ 50'37		inferior conj	1941 Oct 27 02:56	3° ♄ 18'10	-0°50'11
morning rise	1940 Nov 17 10:08	13° ♄ 23'25		minimum elong	1941 Oct 27 04:14	3° ♄ 14'02	0°49'38
direct	1940 Nov 21 04:05	12° ♄ 02'50		asc. node	1941 Oct 29 13:20	0° ♄ 20'04	
morning max el	1940 Nov 28 21:29	16° ♄ 28'28	20°11'02		1941 Oct 29 20:34	30° ♄	
	1940 Dec 09 12:44	0° ♄		morning rise	1941 Nov 01 19:53	27° ♄ 23'28	
desc. node	1940 Dec 20 00:27	15° ♄ 33'16		direct	1941 Nov 05 02:41	26° ♄ 21'20	
morning set	1940 Dec 26 04:08	24° ♄ 59'14			1941 Nov 11 20:10	0° ♄	
	1940 Dec 29 09:35	0° ♄		morning max el	1941 Nov 12 03:17	0° ♄ 17'38	19°11'26
max. Earth dist.	1941 Jan 05 16:55	11° ♄ 32'38	1.43742 AU		1941 Dec 03 00:11	0° ♄	
				morning set	1941 Dec 05 07:06	3° ♄ 33'37	
superior conj	1941 Jan 11 10:20	20° ♄ 49'39	-1°57'10	desc. node	1941 Dec 06 21:27	6° ♄ 02'59	
minimum elong	1941 Jan 11 05:10	20° ♄ 28'30	1°56'54	max. Earth dist.	1941 Dec 19 08:09	25° ♄ 32'08	1.44805 AU
	1941 Jan 16 22:36	0° ♄					
evening rise	1941 Jan 24 06:18	12° ♄ 31'56		superior conj	1941 Dec 22 00:35	29° ♄ 46'53	-1°30'32
	1941 Feb 03 13:08	0° ♄		minimum elong	1941 Dec 21 15:47	29° ♄ 12'02	1°29'40
asc. node	1941 Feb 07 15:37	6° ♄ 04'49			1941 Dec 22 03:54	0° ♄	
evening max el	1941 Feb 10 23:51	10° ♄ 02'07	18°10'30	evening rise	1942 Jan 05 17:04	23° ♄ 31'02	
retrograde	1941 Feb 17 10:57	13° ♄ 26'47			1942 Jan 09 15:24	0° ♄	
evening set	1941 Feb 20 07:26	12° ♄ 45'23		evening max el	1942 Jan 25 12:02	23° ♄ 24'42	18°30'38
inferior conj	1941 Feb 26 12:24	7° ♄ 31'40	3°43'10	asc. node	1942 Jan 25 12:39	23° ♄ 26'18	
minimum elong	1941 Feb 26 12:45	7° ♄ 30'44	3°43'09	retrograde	1942 Feb 01 01:16	27° ♄ 00'53	
min. Earth dist.	1941 Mar 01 06:06	4° ♄ 37'50	0.62758 AU	evening set	1942 Feb 04 03:11	26° ♄ 08'04	
morning rise	1941 Mar 04 16:59	1° ♄ 30'33		inferior conj	1942 Feb 09 23:20	20° ♄ 35'32	3°39'00
	1941 Mar 07 02:22	30° ♄		minimum elong	1942 Feb 09 22:04	20° ♄ 39'16	3°38'53
direct	1941 Mar 11 15:52	28° ♄ 52'22		min. Earth dist.	1942 Feb 12 01:33	18° ♄ 08'00	0.64548 AU
	1941 Mar 16 12:26	0° ♄		morning rise	1942 Feb 15 16:26	14° ♄ 27'38	
desc. node	1941 Mar 17 23:39	0° ♄ 44'08		direct	1942 Feb 22 12:08	11° ♄ 36'55	
morning max el	1941 Mar 25 15:01	6° ♄ 48'01	27°48'10	desc. node	1942 Mar 04 20:40	16° ♄ 31'58	
	1941 Apr 12 07:19	0° ♄		morning max el	1942 Mar 08 00:09	19° ♄ 27'02	27°20'47
morning set	1941 Apr 28 15:31	29° ♄ 21'22			1942 Mar 17 00:10	0° ♄	
	1941 Apr 28 23:09	0° ♄			1942 Apr 05 07:06	0° ♄	
max. Earth dist.	1941 May 04 02:56	10° ♄ 45'23	1.32716 AU	morning set	1942 Apr 12 07:55	13° ♄ 08'49	
				max. Earth dist.	1942 Apr 17 02:20	22° ♄ 43'51	1.33603 AU
superior conj	1941 May 06 05:36	15° ♄ 18'00	-0°04'06				

superior conj	1942 Apr 20 10:20	29° Υ 42'08	-0°31'47	superior conj	1943 Apr 04 08:34	13° Υ 42'08	-0°59'37
minimum elong	1942 Apr 20 11:55	29° Υ 50'34	0°31'27	minimum elong	1943 Apr 04 11:34	13° Υ 57'31	0°59'04
	1942 Apr 20 13:42	0° B		asc. node	1943 Apr 10 09:01	26° Υ 12'22	
asc. node	1942 Apr 23 11:58	6° B 14'12		evening rise	1943 Apr 12 00:58	29° Υ 39'31	
evening rise	1942 Apr 27 16:26	15° B 08'09			1943 Apr 12 04:56	0° B	
	1942 May 05 04:37	0° II			1943 Apr 30 15:56	0° II	
evening max el	1942 May 18 20:08	19° II 18'14	22°10'54	evening max el	1943 Apr 30 21:09	0° II 12'46	20°44'42
retrograde	1942 May 31 16:03	25° II 38'26		retrograde	1943 May 12 05:13	5° II 43'35	
desc. node	1942 May 31 19:54	25° II 38'22		evening set	1943 May 14 08:02	5° II 32'47	
evening set	1942 Jun 03 12:07	25° II 20'36		desc. node	1943 May 18 16:56	4° II 10'02	
min. Earth dist.	1942 Jun 12 02:05	21° II 40'00	0.55098 AU	inferior conj	1943 May 23 14:34	1° II 34'59	-1°25'28
inferior conj	1942 Jun 12 20:49	21° II 13'40	-3°17'16	minimum elong	1943 May 23 10:32	1° II 40'46	1°24'00
minimum elong	1942 Jun 12 13:00	21° II 24'40	3°15'01	min. Earth dist.	1943 May 24 14:31	1° II 00'44	0.54971 AU
morning rise	1942 Jun 21 15:37	17° II 21'23			1943 May 26 10:04	30° R B	
direct	1942 Jun 24 15:54	17° II 01'04		morning rise	1943 Jun 01 12:31	27° B 27'56	
morning max el	1942 Jul 06 09:37	22° II 29'50	21°23'09	direct	1943 Jun 05 01:29	27° B 00'57	
	1942 Jul 12 20:24	0° E			1943 Jun 14 00:46	0° II	
asc. node	1942 Jul 20 11:10	12° E 27'35		morning max el	1943 Jun 18 05:39	3° II 21'22	23°01'02
morning set	1942 Jul 26 14:11	24° E 35'06			1943 Jul 06 09:05	0° E	
	1942 Jul 29 04:24	0° O		asc. node	1943 Jul 07 08:14	1° E 53'46	
				morning set	1943 Jul 11 01:10	9° E 28'49	
superior conj	1942 Aug 02 22:35	9° O 58'26	1°42'11	superior conj	1943 Jul 18 03:30	24° E 38'57	1°32'27
minimum elong	1942 Aug 02 21:15	9° O 51'31	1°42'08	minimum elong	1943 Jul 18 01:22	24° E 27'30	1°32'14
max. Earth dist.	1942 Aug 07 00:34	18° O 18'34	1.35192 AU		1943 Jul 20 16:08	0° O	
evening rise	1942 Aug 11 08:04	26° O 43'51		max. Earth dist.	1943 Jul 20 20:50	0° O 24'41	1.33840 AU
	1942 Aug 13 01:48	0° np		evening rise	1943 Jul 25 20:16	10° O 33'40	
desc. node	1942 Aug 27 19:12	24° np 46'27			1943 Aug 05 10:33	0° np	
	1942 Aug 31 08:27	0° A		desc. node	1943 Aug 14 16:15	14° np 28'15	
evening max el	1942 Sep 15 16:55	18° A 45'55	26°40'33		1943 Aug 27 00:36	0° A	
retrograde	1942 Sep 28 16:12	26° A 00'03		evening max el	1943 Aug 29 04:47	2° A 10'40	27°16'56
evening set	1942 Oct 05 06:52	23° A 18'24		retrograde	1943 Sep 11 15:23	9° A 29'23	
min. Earth dist.	1942 Oct 09 07:49	19° A 10'18	0.65967 AU	evening set	1943 Sep 18 16:08	6° A 45'50	
inferior conj	1942 Oct 11 01:31	17° A 06'26	-1°48'25	min. Earth dist.	1943 Sep 22 10:39	3° A 13'34	0.64648 AU
minimum elong	1942 Oct 11 04:25	16° A 57'50	1°47'16	inferior conj	1943 Sep 24 16:57	0° A 45'56	-2°46'25
asc. node	1942 Oct 16 10:22	11° A 47'13		minimum elong	1943 Sep 24 21:20	0° A 34'01	2°44'52
morning rise	1942 Oct 17 02:33	11° A 23'09			1943 Sep 25 09:56	30° R np	
direct	1942 Oct 20 00:22	10° A 35'53		morning rise	1943 Oct 01 03:30	25° np 17'09	
morning max el	1942 Oct 26 15:15	14° A 13'11	18°27'42	asc. node	1943 Oct 03 07:25	24° np 42'13	
	1942 Nov 07 01:44	0° ml		direct	1943 Oct 03 18:41	24° np 41'04	
morning set	1942 Nov 15 11:27	13° ml 27'23		morning max el	1943 Oct 10 06:45	28° np 08'40	18°00'50
desc. node	1942 Nov 23 18:29	26° ml 42'17			1943 Oct 11 23:27	0° A	
	1942 Nov 25 20:26	0° x		morning set	1943 Oct 27 20:43	24° A 46'07	
superior conj	1942 Dec 01 01:57	8° x 14'29	-0°47'37		1943 Oct 30 23:37	0° ml	
minimum elong	1942 Nov 30 19:52	7° x 50'34	0°46'50	superior conj	1943 Nov 10 11:56	17° ml 12'57	0°01'01
max. Earth dist.	1942 Dec 02 03:00	9° x 52'50	1.45152 AU	minimum elong	1943 Nov 10 12:03	17° ml 13'27	0°01'01
	1942 Dec 14 22:21	0° Z		behind sun begin	1943 Nov 10 01:36	16° ml 31'25	
evening rise	1942 Dec 17 04:28	3° Z 33'23		behind sun end	1943 Nov 10 22:31	17° ml 55'25	
greatest brilliancy	1942 Dec 26 23:25	18° Z 58'16	-0.8m	desc. node	1943 Nov 10 15:34	17° ml 27'34	
	1943 Jan 03 08:27	0° a		max. Earth dist.	1943 Nov 14 21:47	24° ml 14'24	1.44752 AU
evening max el	1943 Jan 08 21:34	6° a 52'06	19°08'19		1943 Nov 18 13:39	0° x	
asc. node	1943 Jan 12 09:42	9° a 46'03		evening rise	1943 Nov 26 20:06	12° x 50'38	
retrograde	1943 Jan 15 20:46	10° a 50'29			1943 Dec 08 01:47	0° Z	
evening set	1943 Jan 19 05:04	9° a 45'18		greatest brilliancy	1943 Dec 10 23:05	4° Z 18'16	-0.6m
inferior conj	1943 Jan 24 19:15	3° a 56'16	3°20'20	evening max el	1943 Dec 23 02:36	20° Z 21'37	20°01'51
minimum elong	1943 Jan 24 17:00	4° a 03'27	3°19'55	asc. node	1943 Dec 30 06:43	24° Z 49'26	
min. Earth dist.	1943 Jan 26 06:13	2° a 05'07	0.65952 AU	retrograde	1943 Dec 30 18:32	24° Z 50'47	
	1943 Jan 27 23:42	30° R Z		evening set	1944 Jan 03 10:43	23° Z 31'56	
morning rise	1943 Jan 30 04:39	27° Z 44'32		inferior conj	1944 Jan 08 21:14	17° Z 29'14	2°50'43
direct	1943 Feb 05 14:50	24° Z 55'12		minimum elong	1944 Jan 08 18:37	17° Z 38'02	2°50'02
	1943 Feb 15 19:00	0° a		min. Earth dist.	1944 Jan 09 18:23	16° Z 18'23	0.66952 AU
morning max el	1943 Feb 18 10:01	2° a 28'50	26°24'03	morning rise	1944 Jan 14 02:17	11° Z 15'53	
desc. node	1943 Feb 19 17:42	3° a 50'51		direct	1944 Jan 19 23:21	8° Z 38'44	
	1943 Mar 11 04:59	0° X		morning max el	1944 Jan 31 18:55	15° Z 41'44	25°06'58
morning set	1943 Mar 26 12:17	26° X 16'36		desc. node	1944 Feb 06 14:45	22° Z 14'35	
	1943 Mar 28 11:19	0° Υ			1944 Feb 12 14:17	0° a	
max. Earth dist.	1943 Mar 30 14:44	4° Υ 09'45	1.34945 AU				

	1944 Mar 03 02:45	0° H		morning set	1945 Feb 17 12:01	19° \approx 33'35	
morning set	1944 Mar 07 23:44	8° H 30'48		max. Earth dist.	1945 Feb 21 10:35	26° \approx 22'52	1.38802 AU
max. Earth dist.	1944 Mar 11 15:46	15° H 12'37	1.36718 AU		1945 Feb 23 11:25	0° H	
superior conj	1944 Mar 17 21:25	27° H 10'03	-1°25'48	superior conj	1945 Feb 28 21:01	9° H 55'20	-1°47'49
minimum elong	1944 Mar 18 01:28	27° H 30'04	1°25'13	minimum elong	1945 Mar 01 01:11	10° H 14'51	1°47'26
	1944 Mar 19 07:43	0° Y		evening rise	1945 Mar 10 00:47	27° H 34'33	
evening rise	1944 Mar 26 04:40	13° Y 51'02			1945 Mar 11 06:45	0° Y	
asc. node	1944 Mar 27 06:05	15° Y 58'25		asc. node	1945 Mar 14 03:06	5° Y 26'28	
	1944 Apr 03 17:29	0° B		evening max el	1945 Mar 26 09:27	23° Y 58'33	18°46'12
evening max el	1944 Apr 12 10:02	11° B 46'39	19°35'35	retrograde	1945 Apr 03 12:12	27° Y 55'36	
retrograde	1944 Apr 22 00:34	16° B 24'55		evening set	1945 Apr 05 18:28	27° Y 38'23	
evening set	1944 Apr 24 01:34	16° B 13'16		inferior conj	1945 Apr 13 14:30	23° Y 17'34	2°06'29
inferior conj	1944 May 02 17:10	12° B 09'18	0°32'12	minimum elong	1945 Apr 13 18:26	23° Y 10'18	2°05'21
minimum elong	1944 May 02 18:32	12° B 07'07	0°31'42	min. Earth dist.	1945 Apr 16 21:47	20° Y 52'31	0.57407 AU
desc. node	1944 May 04 13:57	10° B 58'07		desc. node	1945 Apr 21 10:59	18° Y 10'37	
min. Earth dist.	1944 May 05 04:55	10° B 34'46	0.55802 AU	morning rise	1945 Apr 21 15:17	18° Y 05'49	
morning rise	1944 May 11 08:50	7° B 31'09		direct	1945 Apr 27 03:46	16° Y 51'13	
direct	1944 May 15 19:39	6° B 46'38		morning max el	1945 May 11 11:58	24° Y 22'23	26°13'21
morning max el	1944 May 29 20:29	13° B 50'14	24°42'42		1945 May 16 15:21	0° B	
	1944 Jun 11 11:46	0° II			1945 Jun 04 10:30	0° II	
asc. node	1944 Jun 23 05:19	21° II 39'05		morning set	1945 Jun 09 00:08	9° II 18'16	
morning set	1944 Jun 24 13:01	24° II 25'00		asc. node	1945 Jun 10 02:23	11° II 37'25	
	1944 Jun 27 03:39	0° E		superior conj	1945 Jun 15 23:57	24° II 28'33	0°58'44
superior conj	1944 Jul 01 12:38	9° E 31'17	1°17'41	minimum elong	1945 Jun 15 21:45	24° II 16'30	0°58'20
minimum elong	1944 Jul 01 10:13	9° E 18'09	1°17'19	max. Earth dist.	1945 Jun 16 11:45	25° II 33'26	1.32350 AU
max. Earth dist.	1944 Jul 03 01:26	12° E 50'53	1.32897 AU		1945 Jun 18 12:27	0° E	
evening rise	1944 Jul 08 18:20	24° E 52'25		evening rise	1945 Jun 22 23:11	9° E 30'31	
	1944 Jul 11 07:41	0° O			1945 Jul 03 15:39	0° O	
	1944 Jul 28 23:44	0° np		desc. node	1945 Jul 18 10:18	21° O 45'10	
desc. node	1944 Jul 31 13:17	3° np 32'53		evening max el	1945 Jul 23 20:16	27° O 34'19	27°00'42
evening max el	1944 Aug 10 14:42	15° np 10'47	27°25'05		1945 Jul 26 14:47	0° np	
retrograde	1944 Aug 24 08:25	22° np 28'21		retrograde	1945 Aug 06 18:10	4° np 48'11	
evening set	1944 Aug 31 13:22	19° np 54'33		evening set	1945 Aug 13 18:21	2° np 37'27	
min. Earth dist.	1944 Sep 04 03:48	16° np 53'13	0.62984 AU		1945 Aug 17 08:50	30° R 0	
inferior conj	1944 Sep 06 22:30	14° np 10'25	-3°40'53	min. Earth dist.	1945 Aug 17 10:32	29° O 56'29	0.61046 AU
minimum elong	1944 Sep 07 03:47	13° np 57'29	3°39'23	inferior conj	1945 Aug 20 14:57	27° O 12'17	-4°26'26
morning rise	1944 Sep 13 19:35	8° np 59'19		minimum elong	1945 Aug 20 19:48	27° O 01'47	4°25'32
direct	1944 Sep 16 06:47	8° np 30'57		morning rise	1945 Aug 27 23:00	22° O 21'52	
asc. node	1944 Sep 19 04:29	9° np 11'12		direct	1945 Aug 30 09:02	21° O 58'21	
morning max el	1944 Sep 22 22:51	11° np 57'03	17°51'37	asc. node	1945 Sep 06 01:33	25° O 05'17	
	1944 Oct 05 03:17	0° A		morning max el	1945 Sep 06 12:31	25° O 31'12	18°01'08
morning set	1944 Oct 09 05:53	7° A 13'31			1945 Sep 10 07:20	0° np	
superior conj	1944 Oct 20 21:53	27° A 23'02	0°44'00	morning set	1945 Sep 22 08:44	20° np 31'57	
minimum elong	1944 Oct 21 01:54	27° A 39'49	0°43'27		1945 Sep 27 12:08	0° A	
	1944 Oct 22 11:33	0° M		superior conj	1945 Oct 02 10:46	8° A 52'26	1°15'40
max. Earth dist.	1944 Oct 27 13:38	8° M 19'00	1.43671 AU	minimum elong	1945 Oct 02 15:11	9° A 11'56	1°15'09
desc. node	1944 Oct 27 12:34	8° M 14'43		max. Earth dist.	1945 Oct 10 01:03	21° A 53'20	1.42047 AU
evening rise	1944 Nov 05 04:20	21° M 54'27		desc. node	1945 Oct 14 09:36	29° A 01'15	
	1944 Nov 10 11:09	0° X			1945 Oct 15 00:13	0° M	
	1944 Dec 01 15:31	0° B		evening rise	1945 Oct 15 22:26	1° M 28'48	
evening max el	1944 Dec 05 02:10	3° B 52'03	21°08'35		1945 Nov 03 23:06	0° X	
retrograde	1944 Dec 13 16:11	8° B 57'37		evening max el	1945 Nov 17 20:25	17° X 24'27	22°24'32
asc. node	1944 Dec 16 03:45	8° B 23'20		retrograde	1945 Nov 27 12:01	23° X 08'34	
evening set	1944 Dec 17 18:09	7° B 23'34		evening set	1945 Dec 02 01:42	21° X 17'53	
inferior conj	1944 Dec 23 02:53	1° B 10'22	2°12'34	asc. node	1945 Dec 03 00:46	20° X 25'52	
minimum elong	1944 Dec 23 00:25	1° B 18'53	2°11'45	inferior conj	1945 Dec 07 10:12	14° X 57'38	1°27'39
min. Earth dist.	1944 Dec 23 11:44	0° B 39'53	0.67569 AU	minimum elong	1945 Dec 07 08:20	15° X 04'06	1°26'55
	1944 Dec 23 23:21	30° R 7		min. Earth dist.	1945 Dec 07 07:51	15° X 05'47	0.67826 AU
morning rise	1944 Dec 28 06:28	24° X 57'20		morning rise	1945 Dec 12 14:49	8° X 46'55	
direct	1945 Jan 02 12:45	22° X 39'30		direct	1945 Dec 17 06:11	6° X 51'40	
morning max el	1945 Jan 13 03:25	28° X 58'53	23°39'42	morning max el	1945 Dec 26 14:49	12° X 22'31	22°12'07
	1945 Jan 14 03:04	0° B			1946 Jan 09 14:09	0° B	
desc. node	1945 Jan 23 11:47	11° B 23'53		desc. node	1946 Jan 10 08:49	1° B 06'14	
	1945 Feb 05 09:20	0° \approx		morning set	1946 Jan 28 19:46	29° B 13'01	

	1946 Jan 29 07:22	0°♊				1947 Jan 03 01:46	0°♊	
max. Earth dist.	1946 Feb 03 07:49	8°♊17'32	1.40951 AU	morning set		1947 Jan 08 01:07	7°♊40'40	
				max. Earth dist.		1947 Jan 16 12:19	21°♊08'58	1.42854 AU
superior conj	1946 Feb 11 02:43	21°♊46'47	-2°02'02			1947 Jan 21 21:06	0°♊	
minimum elong	1946 Feb 11 05:06	21°♊57'22	2°01'57					
	1946 Feb 15 15:43	0°♋		superior conj		1947 Jan 23 09:13	2°♊31'54	-2°03'47
evening rise	1946 Feb 21 10:08	10°♋42'53		minimum elong		1947 Jan 23 07:17	2°♊23'42	2°03'44
asc. node	1946 Mar 01 00:06	24°♋30'33		evening rise		1947 Feb 04 04:48	23°♊07'37	
	1946 Mar 04 09:26	0°♌				1947 Feb 08 01:31	0°♋	
evening max el	1946 Mar 09 16:24	6°♌40'54	18°16'51	asc. node		1947 Feb 15 21:07	13°♋03'12	
retrograde	1946 Mar 16 18:55	10°♌13'28		evening max el		1947 Feb 21 03:38	19°♋45'00	18°07'15
evening set	1946 Mar 19 07:10	9°♌47'55		retrograde		1947 Feb 27 17:35	23°♋08'56	
inferior conj	1946 Mar 26 09:06	5°♌06'11	3°07'02	evening set		1947 Mar 02 11:04	22°♋33'38	
minimum elong	1946 Mar 26 12:29	4°♌58'53	3°06'23	inferior conj		1947 Mar 08 22:34	17°♋31'05	3°37'02
min. Earth dist.	1946 Mar 29 19:05	2°♌10'51	0.59453 AU	minimum elong		1947 Mar 09 00:03	17°♋27'22	3°36'53
	1946 Apr 01 18:16	30°♌♋		min. Earth dist.		1947 Mar 11 23:55	14°♋30'08	0.61589 AU
morning rise	1946 Apr 02 15:22	29°♋28'03		morning rise		1947 Mar 15 11:31	11°♋35'56	
desc. node	1946 Apr 08 08:01	27°♋38'19		direct		1947 Mar 22 08:06	9°♋11'59	
direct	1946 Apr 09 00:38	27°♋37'02		desc. node		1947 Mar 26 05:02	9°♋53'48	
	1946 Apr 16 14:54	0°♍		morning max el		1947 Apr 05 11:52	17°♋06'31	27°48'09
morning max el	1946 Apr 23 08:40	5°♍23'26	27°18'19			1947 Apr 16 04:31	0°♌	
	1946 May 11 14:29	0°♎				1947 May 04 06:03	0°♋	
morning set	1946 May 24 08:48	24°♎02'44		morning set		1947 May 08 13:10	8°♎32'15	
	1946 May 27 04:13	0°♏		max. Earth dist.		1947 May 14 10:40	21°♎00'14	1.32406 AU
asc. node	1946 May 27 23:24	1°♏43'33		asc. node		1947 May 14 20:26	21°♎53'15	
superior conj	1946 May 31 11:39	9°♏24'21	0°36'23	superior conj		1947 May 15 22:08	24°♎13'12	0°11'18
minimum elong	1946 May 31 10:07	9°♏15'53	0°36'04	minimum elong		1947 May 15 21:36	24°♎10'21	0°11'12
max. Earth dist.	1946 May 31 00:08	8°♏20'58	1.32186 AU	behind sun begin		1947 May 15 17:58	23°♎50'27	
evening rise	1946 Jun 07 08:21	24°♏19'27		behind sun end		1947 May 16 01:15	24°♎30'15	
	1946 Jun 10 02:00	0°♐				1947 May 18 13:33	0°♏	
	1946 Jun 27 19:07	0°♑		evening rise		1947 May 22 19:46	9°♏12'15	
desc. node	1946 Jul 05 07:19	8°♑04'25				1947 Jun 02 13:40	0°♐	
evening max el	1946 Jul 05 18:59	9°♑11'08	26°03'39	evening max el		1947 Jun 17 10:52	20°♐04'14	24°40'46
retrograde	1946 Jul 19 18:55	16°♑21'22		desc. node		1947 Jun 22 04:18	23°♐56'41	
evening set	1946 Jul 26 02:15	14°♑45'09		retrograde		1947 Jul 01 09:13	27°♐07'36	
min. Earth dist.	1946 Jul 30 07:34	12°♑08'22	0.58986 AU	evening set		1947 Jul 06 10:30	26°♐09'53	
inferior conj	1946 Aug 02 14:37	9°♑40'56	-4°54'23	min. Earth dist.		1947 Jul 11 22:01	23°♐19'00	0.57056 AU
minimum elong	1946 Aug 02 16:47	9°♑36'52	4°54'16	inferior conj		1947 Jul 14 18:36	21°♐27'46	-4°52'05
morning rise	1946 Aug 10 09:29	5°♑13'26		minimum elong		1947 Jul 14 15:45	21°♐32'26	4°51'52
direct	1946 Aug 12 21:03	4°♑52'42		morning rise		1947 Jul 22 23:42	17°♐21'50	
morning max el	1946 Aug 20 20:34	8°♑41'55	18°30'41	direct		1947 Jul 25 14:37	17°♐02'39	
asc. node	1946 Aug 23 22:36	12°♑08'57		morning max el		1947 Aug 03 20:03	21°♐20'37	19°21'20
	1946 Sep 03 16:29	0°♒		asc. node		1947 Aug 10 19:40	0°♑07'44	
morning set	1946 Sep 06 00:05	4°♒26'15				1947 Aug 10 17:40	0°♒	
				morning set		1947 Aug 21 00:10	18°♒46'26	
superior conj	1946 Sep 14 22:19	21°♒28'40	1°35'20			1947 Aug 26 14:50	0°♒	
minimum elong	1946 Sep 15 01:16	21°♒42'23	1°35'07					
	1946 Sep 19 14:34	0°♓		superior conj		1947 Aug 29 03:00	4°♒56'22	1°44'30
max. Earth dist.	1946 Sep 22 07:23	4°♓45'25	1.40081 AU	minimum elong		1947 Aug 29 04:02	5°♒01'24	1°44'30
evening rise	1946 Sep 26 13:54	12°♓02'09		max. Earth dist.		1947 Sep 04 11:01	16°♒56'38	1.38031 AU
desc. node	1946 Oct 01 06:37	19°♓42'51		evening rise		1947 Sep 08 05:27	23°♒42'54	
	1946 Oct 07 21:21	0°♔				1947 Sep 11 20:54	0°♓	
	1946 Oct 30 11:23	0°♕		desc. node		1947 Sep 18 03:38	10°♓15'32	
evening max el	1946 Oct 31 10:30	0°♕59'01	23°44'29			1947 Oct 01 15:26	0°♔	
retrograde	1946 Nov 11 04:43	7°♕19'38		evening max el		1947 Oct 13 22:33	14°♔36'43	25°01'55
evening set	1946 Nov 16 07:44	5°♕11'45		retrograde		1947 Oct 25 17:25	21°♔26'52	
asc. node	1946 Nov 19 21:48	1°♕14'41		evening set		1947 Oct 31 10:36	19°♔02'50	
	1946 Nov 20 20:16	30°♕♔		min. Earth dist.		1947 Nov 04 23:02	13°♔57'48	0.67310 AU
min. Earth dist.	1946 Nov 21 04:23	29°♔32'27	0.67735 AU	inferior conj		1947 Nov 05 22:41	12°♔40'10	-0°17'23
inferior conj	1946 Nov 21 17:22	28°♔48'13	0°37'14	minimum elong		1947 Nov 05 23:07	12°♔38'44	0°17'12
minimum elong	1946 Nov 21 16:30	28°♔51'12	0°36'52	asc. node		1947 Nov 06 18:51	11°♔34'24	
morning rise	1946 Nov 27 01:14	22°♔41'54		morning rise		1947 Nov 11 11:48	6°♔40'33	
direct	1946 Dec 01 02:32	21°♔09'21		direct		1947 Nov 15 00:40	5°♔28'25	
morning max el	1946 Dec 09 08:35	25°♔55'59	20°51'53	morning max el		1947 Nov 22 10:11	9°♔40'21	19°43'51
	1946 Dec 13 00:03	0°♕		greatest brilliancy		1947 Dec 05 17:09	27°♔17'48	-0.7m
desc. node	1946 Dec 28 05:51	21°♕11'58				1947 Dec 07 12:32	0°♕	





































































































































desc. node	1947 Dec 15 02:53	11° ♁ 34'23		asc. node	1948 Oct 23 15:55	22° ♁ 22'52	
morning set	1947 Dec 17 21:25	15° ♁ 50'50		morning rise	1948 Oct 25 20:31	20° ♁ 40'49	
	1947 Dec 26 23:17	0° ♁		direct	1948 Oct 28 23:06	19° ♁ 45'37	
max. Earth dist.	1947 Dec 29 23:54	4° ♁ 47'10	1.44269 AU	morning max el	1948 Nov 04 18:54	23° ♁ 33'06	18°50'48
					1948 Nov 10 02:19	0° ♁	
superior conj	1948 Jan 03 13:15	12° ♁ 04'45	-1°48'13	morning set	1948 Nov 26 09:44	24° ♁ 55'18	
minimum elong	1948 Jan 03 05:59	11° ♁ 35'28	1°47'42		1948 Nov 29 15:09	0° ♁	
	1948 Jan 14 10:06	0° ♁		desc. node	1948 Nov 30 23:54	2° ♁ 08'49	
evening rise	1948 Jan 17 04:21	4° ♁ 39'46		max. Earth dist.	1948 Dec 11 16:31	18° ♁ 56'09	1.45034 AU
	1948 Feb 02 00:46	0° ♁					
asc. node	1948 Feb 02 18:09	0° ♁ 54'12		superior conj	1948 Dec 12 19:50	20° ♁ 43'31	-1°13'51
evening max el	1948 Feb 04 16:13	3° ♁ 02'36	18°16'50	minimum elong	1948 Dec 12 11:22	20° ♁ 10'14	1°12'53
retrograde	1948 Feb 11 03:24	6° ♁ 31'10			1948 Dec 18 16:46	0° ♁	
evening set	1948 Feb 14 02:00	5° ♁ 45'10		evening rise	1948 Dec 28 05:12	15° ♁ 14'21	
inferior conj	1948 Feb 20 02:50	0° ♁ 23'13	3°43'28		1949 Jan 06 08:53	0° ♁	
minimum elong	1948 Feb 20 02:25	0° ♁ 24'21	3°43'27	evening max el	1949 Jan 18 03:35	16° ♁ 28'11	18°44'40
	1948 Feb 20 11:08	30° ♁		asc. node	1949 Jan 19 15:12	17° ♁ 51'41	
min. Earth dist.	1948 Feb 22 14:05	27° ♁ 38'37	0.63554 AU	retrograde	1949 Jan 24 20:17	20° ♁ 12'42	
morning rise	1948 Feb 26 02:00	24° ♁ 18'25		evening set	1949 Jan 28 00:42	19° ♁ 14'56	
direct	1948 Mar 04 00:19	21° ♁ 33'03		inferior conj	1949 Feb 02 18:01	13° ♁ 35'22	3°32'36
desc. node	1948 Mar 12 02:04	24° ♁ 34'23		minimum elong	1949 Feb 02 16:15	13° ♁ 40'46	3°32'23
morning max el	1948 Mar 17 19:44	29° ♁ 28'26	27°40'38	min. Earth dist.	1949 Feb 04 13:44	11° ♁ 22'09	0.65192 AU
	1948 Mar 18 08:14	0° ♁		morning rise	1949 Feb 08 07:23	7° ♁ 25'29	
	1948 Apr 09 02:26	0° ♁		direct	1949 Feb 14 23:45	4° ♁ 33'25	
morning set	1948 Apr 21 10:48	22° ♁ 37'57		desc. node	1949 Feb 26 23:07	11° ♁ 04'48	
	1948 Apr 25 01:38	0° ♁		morning max el	1949 Feb 28 05:24	12° ♁ 18'46	26°59'42
max. Earth dist.	1948 Apr 26 15:09	3° ♁ 16'16	1.33038 AU		1949 Mar 14 09:51	0° ♁	
					1949 Apr 01 16:02	0° ♁	
superior conj	1948 Apr 29 05:32	8° ♁ 48'14	-0°15'44	morning set	1949 Apr 04 22:36	6° ♁ 10'27	
minimum elong	1948 Apr 29 06:18	8° ♁ 52'23	0°15'34	max. Earth dist.	1949 Apr 09 09:50	14° ♁ 59'39	1.34118 AU
behind sun begin	1948 Apr 29 05:10	8° ♁ 46'18					
behind sun end	1948 Apr 29 07:26	8° ♁ 58'27		superior conj	1949 Apr 13 07:50	23° ♁ 03'26	-0°43'39
asc. node	1948 Apr 30 17:28	12° ♁ 01'39		minimum elong	1949 Apr 13 10:02	23° ♁ 14'57	0°43'13
evening rise	1948 May 06 07:32	24° ♁ 01'25			1949 Apr 16 14:55	0° ♁	
	1948 May 09 04:38	0° ♁		asc. node	1949 Apr 17 14:31	2° ♁ 04'55	
	1948 May 28 10:50	0° ♁		evening rise	1949 Apr 20 17:48	8° ♁ 41'12	
evening max el	1948 May 29 00:40	0° ♁ 34'06	23°05'24		1949 May 02 02:19	0° ♁	
desc. node	1948 Jun 08 01:20	6° ♁ 49'40		evening max el	1949 May 10 20:03	11° ♁ 12'51	21°32'29
retrograde	1948 Jun 11 11:15	7° ♁ 16'14		retrograde	1949 May 23 02:16	17° ♁ 12'58	
evening set	1948 Jun 15 00:24	6° ♁ 48'37		evening set	1949 May 25 12:37	16° ♁ 59'35	
min. Earth dist.	1948 Jun 22 10:01	3° ♁ 29'28	0.55595 AU	desc. node	1949 May 25 22:22	16° ♁ 54'49	
inferior conj	1948 Jun 24 03:00	2° ♁ 29'47	-4°05'50	inferior conj	1949 Jun 03 22:28	12° ♁ 58'49	-2°32'51
minimum elong	1948 Jun 23 19:38	2° ♁ 40'33	4°04'13	minimum elong	1949 Jun 03 15:40	13° ♁ 08'20	2°30'38
	1948 Jun 28 17:57	30° ♁		min. Earth dist.	1949 Jun 03 22:06	12° ♁ 59'20	0.54930 AU
morning rise	1948 Jul 02 17:23	28° ♁ 36'38		morning rise	1949 Jun 12 19:27	9° ♁ 02'16	
direct	1948 Jul 05 13:04	28° ♁ 17'40		direct	1949 Jun 16 00:08	8° ♁ 39'57	
	1948 Jul 11 20:55	0° ♁		morning max el	1949 Jun 28 09:50	14° ♁ 31'34	22°03'24
morning max el	1948 Jul 16 08:36	3° ♁ 18'09	20°33'10		1949 Jul 10 03:19	0° ♁	
asc. node	1948 Jul 27 16:43	18° ♁ 48'19		asc. node	1949 Jul 14 13:46	8° ♁ 00'27	
	1948 Aug 02 13:54	0° ♁		morning set	1949 Jul 19 15:53	18° ♁ 14'17	
morning set	1948 Aug 04 06:11	3° ♁ 24'33			1949 Jul 25 05:20	0° ♁	
superior conj	1948 Aug 11 19:55	19° ♁ 00'59	1°45'06	superior conj	1949 Jul 26 21:17	3° ♁ 31'04	1°38'44
minimum elong	1948 Aug 11 19:18	18° ♁ 57'51	1°45'05	minimum elong	1949 Jul 26 19:32	3° ♁ 21'52	1°38'36
max. Earth dist.	1948 Aug 16 17:41	28° ♁ 47'15	1.36138 AU	max. Earth dist.	1949 Jul 30 08:36	10° ♁ 43'33	1.34571 AU
	1948 Aug 17 08:44	0° ♁		evening rise	1949 Aug 03 22:52	19° ♁ 52'38	
evening rise	1948 Aug 20 18:00	6° ♁ 23'57			1949 Aug 09 09:04	0° ♁	
	1948 Sep 03 15:47	0° ♁		desc. node	1949 Aug 21 21:42	20° ♁ 32'13	
desc. node	1948 Sep 04 00:40	0° ♁ 34'18			1949 Aug 28 15:47	0° ♁	
evening max el	1948 Sep 25 10:30	28° ♁ 16'11	26°09'25	evening max el	1949 Sep 07 22:53	11° ♁ 50'18	26°59'15
	1948 Sep 27 07:19	0° ♁		retrograde	1949 Sep 21 03:49	19° ♁ 07'13	
retrograde	1948 Oct 08 01:22	5° ♁ 25'10		evening set	1949 Sep 27 23:08	16° ♁ 23'56	
evening set	1948 Oct 14 08:30	2° ♁ 48'26		min. Earth dist.	1949 Oct 01 21:17	12° ♁ 31'03	0.65442 AU
	1948 Oct 17 03:33	30° ♁		inferior conj	1949 Oct 03 20:11	10° ♁ 16'30	-2°13'16
min. Earth dist.	1948 Oct 18 13:29	28° ♁ 19'05	0.66548 AU	minimum elong	1949 Oct 03 23:44	10° ♁ 06'17	2°11'53
inferior conj	1948 Oct 20 00:19	26° ♁ 31'05	-1°14'49	morning rise	1949 Oct 10 01:04	4° ♁ 38'41	
minimum elong	1948 Oct 20 02:17	26° ♁ 24'58	1°13'59	asc. node	1949 Oct 10 12:59	4° ♁ 25'04	

direct	1949 Oct 12 19:44	3° Ω 56'35		morning rise	1950 Sep 23 22:42	18° Π 29'21	
morning max el	1949 Oct 19 08:38	7° Ω 28'57	18°14'07	direct	1950 Sep 26 11:59	17° Π 56'47	
	1949 Nov 03 18:58	0° Π		asc. node	1950 Sep 27 10:01	18° Π 01'04	
morning set	1949 Nov 07 02:41	5° Π 26'25		morning max el	1950 Oct 03 00:43	21° Π 22'31	17°54'41
desc. node	1949 Nov 17 20:57	22° Π 50'53			1950 Oct 09 14:40	0° Ω	
				morning set	1950 Oct 19 22:57	17° Ω 17'28	
					1950 Oct 27 10:36	0° Π	
superior conj	1949 Nov 21 22:10	29° Π 16'46	-0°26'56				
minimum elong	1949 Nov 21 18:41	29° Π 03'03	0°26'27				
	1949 Nov 22 09:06	0° Σ		superior conj	1950 Nov 01 17:12	8° Π 42'42	0°20'27
max. Earth dist.	1949 Nov 24 11:36	3° Σ 18'57	1.45070 AU	minimum elong	1950 Nov 01 19:26	8° Π 51'49	0°20'08
evening rise	1949 Dec 08 07:09	24° Σ 54'27		desc. node	1950 Nov 04 18:02	13° Π 37'36	
	1949 Dec 11 13:37	0° Σ		max. Earth dist.	1950 Nov 07 06:03	17° Π 37'47	1.44377 AU
greatest brilliancy	1949 Dec 20 05:14	13° Σ 21'25	-0.7m		1950 Nov 15 03:10	0° Σ	
evening max el	1950 Jan 01 11:27	29° Σ 56'55	19°29'22	evening rise	1950 Nov 17 17:44	4° Σ 01'35	
	1950 Jan 01 12:39	0° \approx			1950 Dec 05 01:57	0° Σ	
asc. node	1950 Jan 06 12:16	3° \approx 40'44		evening max el	1950 Dec 15 14:16	13° Σ 26'53	20°28'49
retrograde	1950 Jan 08 16:54	4° \approx 07'05		retrograde	1950 Dec 23 14:48	18° Σ 10'35	
evening set	1950 Jan 12 04:25	2° \approx 56'13		asc. node	1950 Dec 24 09:17	18° Σ 07'16	
	1950 Jan 15 07:35	30° κ Σ		evening set	1950 Dec 27 11:02	16° Σ 45'15	
inferior conj	1950 Jan 17 16:48	27° Σ 01'16	3°08'54	inferior conj	1951 Jan 01 20:34	10° Σ 37'36	2°35'26
minimum elong	1950 Jan 17 14:19	27° Σ 09'22	3°08'22	minimum elong	1951 Jan 01 17:57	10° Σ 46'30	2°34'40
min. Earth dist.	1950 Jan 18 21:43	25° Σ 27'02	0.66431 AU	min. Earth dist.	1951 Jan 02 12:13	9° Σ 44'22	0.67266 AU
morning rise	1950 Jan 22 23:59	20° Σ 48'51		morning rise	1951 Jan 07 00:41	4° Σ 24'24	
direct	1950 Jan 29 05:03	18° Σ 03'26		direct	1951 Jan 12 15:34	1° Σ 55'04	
morning max el	1950 Feb 10 14:39	25° Σ 25'12	25°53'07	morning max el	1951 Jan 23 23:08	8° Σ 40'00	24°30'30
desc. node	1950 Feb 13 20:08	28° Σ 53'31		desc. node	1951 Jan 31 17:11	17° Σ 38'14	
	1950 Feb 14 19:12	0° \approx			1951 Feb 09 17:50	0° \approx	
	1950 Mar 07 22:04	0° κ		morning set	1951 Feb 28 22:44	0° κ 42'17	
morning set	1950 Mar 18 20:25	18° κ 57'01			1951 Feb 28 13:04	0° κ	
max. Earth dist.	1950 Mar 22 16:57	26° κ 12'22	1.35652 AU	max. Earth dist.	1951 Mar 04 14:47	7° κ 15'11	1.37581 AU
	1950 Mar 24 15:52	0° Υ					
				superior conj	1951 Mar 11 10:10	20° κ 01'52	-1°35'50
superior conj	1950 Mar 28 02:28	6° Υ 51'03	-1°11'02	minimum elong	1951 Mar 11 14:26	20° κ 22'30	1°35'19
minimum elong	1950 Mar 28 05:59	7° Υ 08'50	1°10'27		1951 Mar 16 11:53	0° Υ	
asc. node	1950 Apr 04 11:35	21° Υ 58'41		evening rise	1951 Mar 20 01:21	7° Υ 05'33	
evening rise	1950 Apr 05 00:32	23° Υ 04'59		asc. node	1951 Mar 22 08:37	11° Υ 37'47	
	1950 Apr 08 11:12	0° Σ			1951 Apr 02 03:27	0° Σ	
evening max el	1950 Apr 23 02:09	22° Σ 24'00	20°12'59	evening max el	1951 Apr 05 19:43	4° Σ 14'10	19°12'05
retrograde	1950 May 03 16:06	27° Σ 31'19		retrograde	1951 Apr 14 17:50	8° Σ 33'24	
evening set	1950 May 05 16:59	27° Σ 20'45		evening set	1951 Apr 16 20:43	8° Σ 19'47	
desc. node	1950 May 12 19:22	24° Σ 30'25		inferior conj	1951 Apr 25 04:02	4° Σ 09'04	1°16'07
inferior conj	1950 May 14 18:18	23° Σ 22'13	-0°34'13	minimum elong	1951 Apr 25 06:57	4° Σ 04'09	1°15'09
minimum elong	1950 May 14 16:42	23° Σ 24'35	0°33'37	min. Earth dist.	1951 Apr 28 02:04	2° Σ 11'33	0.56403 AU
min. Earth dist.	1950 May 16 11:06	22° Σ 21'56	0.55219 AU	desc. node	1951 Apr 29 16:23	1° Σ 11'44	
morning rise	1950 May 23 14:51	19° Σ 03'35			1951 May 01 21:25	30° κ Υ	
direct	1950 May 27 12:29	18° Σ 30'33		morning rise	1951 May 03 14:12	29° Υ 16'26	
morning max el	1950 Jun 10 02:46	25° Σ 10'27	23°44'34	direct	1951 May 08 11:50	28° Υ 20'48	
	1950 Jun 14 14:33	0° Π			1951 May 15 01:40	0° Σ	
asc. node	1950 Jul 01 10:50	27° Π 36'08		morning max el	1951 May 22 17:12	5° Σ 37'23	25°23'41
	1950 Jul 02 14:57	0° Σ			1951 Jun 09 08:43	0° Π	
morning set	1950 Jul 04 03:28	3° Σ 10'29		asc. node	1951 Jun 18 07:52	17° Π 27'55	
				morning set	1951 Jun 18 15:13	18° Π 06'38	
					1951 Jun 24 03:13	0° Σ	
superior conj	1950 Jul 11 04:17	18° Σ 18'00	1°26'45				
minimum elong	1950 Jul 11 01:57	18° Σ 05'30	1°26'27	superior conj	1951 Jun 25 14:33	3° Σ 13'26	1°10'07
max. Earth dist.	1950 Jul 13 09:00	23° Σ 00'24	1.33396 AU	minimum elong	1951 Jun 25 12:10	3° Σ 00'27	1°09'43
	1950 Jul 16 17:08	0° Ω		max. Earth dist.	1951 Jun 26 16:37	5° Σ 35'51	1.32618 AU
evening rise	1950 Jul 18 15:45	3° Ω 56'53		evening rise	1951 Jul 02 17:01	18° Σ 25'04	
	1950 Aug 02 02:44	0° Π			1951 Jul 08 13:39	0° Ω	
desc. node	1950 Aug 08 18:44	10° Π 00'17		desc. node	1951 Jul 26 15:45	28° Ω 45'06	
evening max el	1950 Aug 21 10:27	25° Π 07'33	27°24'11		1951 Jul 27 15:24	0° Π	
	1950 Aug 27 14:17	0° Ω		evening max el	1951 Aug 03 18:42	7° Π 53'15	27°18'40
retrograde	1950 Sep 04 00:14	2° Ω 25'16		retrograde	1951 Aug 17 14:04	15° Π 09'06	
	1950 Sep 10 19:16	30° κ Π		evening set	1951 Aug 24 18:33	12° Π 43'10	
evening set	1950 Sep 11 03:42	29° Π 44'35		min. Earth dist.	1951 Aug 28 08:40	9° Π 52'29	0.62195 AU
min. Earth dist.	1950 Sep 14 20:11	26° Π 26'17	0.63985 AU	inferior conj	1951 Aug 31 08:09	7° Π 07'04	-4°01'40
inferior conj	1950 Sep 17 07:48	23° Π 51'13	-3°10'12	minimum elong	1951 Aug 31 13:28	6° Π 54'42	4°00'23
minimum elong	1950 Sep 17 12:40	23° Π 38'31	3°08'37				



























































































































morning rise	1951 Sep 07 09:55	2° \mathbb{M} 04'38		direct	1952 Aug 22 16:54	14° Ω 53'14	
direct	1951 Sep 09 20:22	1° \mathbb{M} 38'34		morning max el	1952 Aug 30 03:54	18° Ω 31'43	18°11'09
asc. node	1951 Sep 14 07:03	3° \mathbb{M} 08'00		asc. node	1952 Aug 31 04:06	19° Ω 33'35	
morning max el	1951 Sep 16 16:10	5° \mathbb{M} 06'03	17°53'20		1952 Sep 07 12:02	0° \mathbb{M}	
morning set	1951 Oct 02 16:18	0° $\underline{\Omega}$ 08'30		morning set	1952 Sep 15 00:57	13° \mathbb{M} 43'14	
	1951 Oct 02 14:25	0° $\underline{\Omega}$			1952 Sep 23 18:45	0° $\underline{\Omega}$	
superior conj	1951 Oct 13 14:52	19° $\underline{\Omega}$ 27'35	0°58'56	superior conj	1952 Sep 24 14:03	1° $\underline{\Omega}$ 27'19	1°25'24
minimum elong	1951 Oct 13 19:24	19° $\underline{\Omega}$ 46'57	0°58'21	minimum elong	1952 Sep 24 17:58	1° $\underline{\Omega}$ 45'02	1°25'01
	1951 Oct 19 21:52	0° \mathbb{M}		max. Earth dist.	1952 Oct 02 04:56	14° $\underline{\Omega}$ 46'49	1.41235 AU
max. Earth dist.	1951 Oct 20 20:22	1° \mathbb{M} 31'58	1.43037 AU	evening rise	1952 Oct 07 06:21	23° $\underline{\Omega}$ 09'52	
desc. node	1951 Oct 22 15:04	4° \mathbb{M} 25'08		desc. node	1952 Oct 08 12:04	25° $\underline{\Omega}$ 09'55	
evening rise	1951 Oct 28 04:08	13° \mathbb{M} 13'12			1952 Oct 11 13:05	0° \mathbb{M}	
	1951 Nov 08 04:59	0° \mathbb{M}			1952 Nov 01 05:34	0° \mathbb{M}	
evening max el	1951 Nov 28 11:21	26° \mathbb{M} 57'37	21°39'59	evening max el	1952 Nov 10 03:27	10° \mathbb{M} 30'13	22°58'29
	1951 Dec 01 20:40	0° \mathbb{M}		retrograde	1952 Nov 20 06:43	16° \mathbb{M} 31'10	
retrograde	1951 Dec 07 11:57	2° \mathbb{M} 19'56		evening set	1952 Nov 25 01:49	14° \mathbb{M} 33'15	
asc. node	1951 Dec 11 06:17	1° \mathbb{M} 02'03		asc. node	1952 Nov 27 03:19	12° \mathbb{M} 29'27	
evening set	1951 Dec 11 18:43	0° \mathbb{M} 38'45		inferior conj	1952 Nov 30 10:37	8° \mathbb{M} 10'54	1°06'52
	1951 Dec 12 12:40	30° \mathbb{M} 38'45		minimum elong	1952 Nov 30 09:07	8° \mathbb{M} 16'02	1°06'15
inferior conj	1951 Dec 17 03:09	24° \mathbb{M} 21'51	1°54'17	min. Earth dist.	1952 Nov 30 03:43	8° \mathbb{M} 34'43	0.67821 AU
minimum elong	1951 Dec 17 00:53	24° \mathbb{M} 29'42	1°53'27	morning rise	1952 Dec 05 16:20	2° \mathbb{M} 01'34	
min. Earth dist.	1951 Dec 17 07:02	24° \mathbb{M} 08'21	0.67718 AU	direct	1952 Dec 10 01:28	0° \mathbb{M} 16'09	
morning rise	1951 Dec 22 06:53	18° \mathbb{M} 09'33		morning max el	1952 Dec 18 22:22	5° \mathbb{M} 27'54	21°36'41
direct	1951 Dec 27 06:38	16° \mathbb{M} 01'24		desc. node	1953 Jan 04 11:17	26° \mathbb{M} 56'25	
morning max el	1952 Jan 06 08:37	22° \mathbb{M} 00'27	23°02'02		1953 Jan 06 13:24	0° \mathbb{M}	
	1952 Jan 13 06:44	0° \mathbb{M}		morning set	1953 Jan 19 18:51	20° \mathbb{M} 16'10	
desc. node	1952 Jan 18 14:15	7° \mathbb{M} 03'11			1953 Jan 25 19:10	0° \mathbb{M}	
	1952 Feb 03 01:38	0° \mathbb{M}		max. Earth dist.	1953 Jan 26 09:23	0° \mathbb{M} 58'41	1.41800 AU
morning set	1952 Feb 09 23:24	11° \mathbb{M} 11'01					
max. Earth dist.	1952 Feb 14 09:54	18° \mathbb{M} 42'04	1.39721 AU	superior conj	1953 Feb 02 23:11	13° \mathbb{M} 50'04	-2°04'37
	1952 Feb 20 18:54	0° \mathbb{M}		minimum elong	1953 Feb 03 00:02	13° \mathbb{M} 53'46	2°04'36
					1953 Feb 11 23:57	0° \mathbb{M}	
superior conj	1952 Feb 22 02:47	2° \mathbb{M} 25'45	-1°55'04	evening rise	1953 Feb 13 20:58	3° \mathbb{M} 26'07	
minimum elong	1952 Feb 22 06:28	2° \mathbb{M} 42'43	1°54'49	asc. node	1953 Feb 23 02:39	19° \mathbb{M} 48'37	
evening rise	1952 Mar 02 17:22	20° \mathbb{M} 35'35		evening max el	1953 Mar 02 07:51	29° \mathbb{M} 32'41	18°10'27
	1952 Mar 07 17:10	0° \mathbb{M}			1953 Mar 02 19:21	0° \mathbb{M}	
asc. node	1952 Mar 08 05:38	0° \mathbb{M} 56'50		retrograde	1953 Mar 09 03:44	2° \mathbb{M} 59'39	
evening max el	1952 Mar 18 22:40	16° \mathbb{M} 39'59	18°31'16	evening set	1953 Mar 11 18:15	2° \mathbb{M} 30'10	
retrograde	1952 Mar 26 13:54	20° \mathbb{M} 25'01			1953 Mar 15 21:16	30° \mathbb{M} 38'45	
evening set	1952 Mar 28 22:35	20° \mathbb{M} 04'39		inferior conj	1953 Mar 18 13:36	27° \mathbb{M} 39'51	3°23'03
inferior conj	1952 Apr 05 10:33	15° \mathbb{M} 35'10	2°36'17	minimum elong	1953 Mar 18 16:15	27° \mathbb{M} 33'46	3°22'40
minimum elong	1952 Apr 05 14:32	15° \mathbb{M} 27'17	2°35'17	min. Earth dist.	1953 Mar 21 21:08	24° \mathbb{M} 38'46	0.60368 AU
min. Earth dist.	1952 Apr 08 20:44	12° \mathbb{M} 54'08	0.58235 AU	morning rise	1953 Mar 25 12:09	21° \mathbb{M} 53'20	
morning rise	1952 Apr 13 03:30	10° \mathbb{M} 10'36		direct	1953 Apr 01 03:36	19° \mathbb{M} 46'52	
desc. node	1952 Apr 15 13:23	9° \mathbb{M} 12'34		desc. node	1953 Apr 02 10:26	19° \mathbb{M} 51'25	
direct	1952 Apr 19 01:32	8° \mathbb{M} 40'50		morning max el	1953 Apr 15 10:14	27° \mathbb{M} 38'16	27°35'31
morning max el	1952 May 03 10:48	16° \mathbb{M} 20'25	26°44'55		1953 Apr 17 16:48	0° \mathbb{M}	
	1952 May 14 14:43	0° \mathbb{M}			1953 May 08 06:24	0° \mathbb{M}	
	1952 May 31 15:26	0° \mathbb{M}		morning set	1953 May 17 08:35	17° \mathbb{M} 35'43	
morning set	1952 Jun 02 01:31	2° \mathbb{M} 57'10		asc. node	1953 May 22 01:58	27° \mathbb{M} 38'22	
asc. node	1952 Jun 04 04:55	7° \mathbb{M} 30'21			1953 May 23 03:58	0° \mathbb{M}	
				max. Earth dist.	1953 May 23 16:00	1° \mathbb{M} 05'46	1.32226 AU
superior conj	1952 Jun 09 02:15	18° \mathbb{M} 11'00	0°49'38	superior conj	1953 May 24 13:39	3° \mathbb{M} 04'26	0°26'02
minimum elong	1952 Jun 09 00:17	18° \mathbb{M} 00'12	0°49'16	minimum elong	1953 May 24 12:30	2° \mathbb{M} 58'08	0°25'48
max. Earth dist.	1952 Jun 09 04:10	18° \mathbb{M} 21'37	1.32229 AU	evening rise	1953 May 31 10:17	17° \mathbb{M} 59'35	
	1952 Jun 14 12:22	0° \mathbb{M}			1953 Jun 06 08:23	0° \mathbb{M}	
evening rise	1952 Jun 15 23:57	3° \mathbb{M} 08'32			1953 Jun 26 11:01	0° \mathbb{M}	
	1952 Jun 30 10:27	0° \mathbb{M}		evening max el	1953 Jun 27 16:57	1° \mathbb{M} 14'02	25°31'00
desc. node	1952 Jul 12 12:44	16° \mathbb{M} 28'51		desc. node	1953 Jun 29 09:43	2° \mathbb{M} 46'36	
evening max el	1952 Jul 15 21:17	19° \mathbb{M} 56'41	26°40'03	retrograde	1953 Jul 11 17:25	8° \mathbb{M} 22'31	
retrograde	1952 Jul 29 20:31	27° \mathbb{M} 09'54		evening set	1953 Jul 17 13:04	7° \mathbb{M} 03'08	
evening set	1952 Aug 05 15:09	25° \mathbb{M} 12'25		min. Earth dist.	1953 Jul 22 05:05	4° \mathbb{M} 22'08	0.58125 AU
min. Earth dist.	1952 Aug 09 10:57	22° \mathbb{M} 35'35	0.60174 AU	inferior conj	1953 Jul 25 09:27	2° \mathbb{M} 07'54	-4°58'04
inferior conj	1952 Aug 12 17:51	19° \mathbb{M} 55'42	-4°41'05	minimum elong	1953 Jul 25 09:42	2° \mathbb{M} 07'29	4°58'03
minimum elong	1952 Aug 12 21:53	19° \mathbb{M} 47'28	4°40'33		1953 Jul 28 13:40	30° \mathbb{M} 38'45	
morning rise	1952 Aug 20 06:38	15° \mathbb{M} 15'14					

morning rise	1953 Aug 02 08:44	27° ☿ 49'50		retrograde	1954 Jun 23 02:09	18° ☿ 50'00	
direct	1953 Aug 04 21:21	27° ☿ 30'01		evening set	1954 Jun 27 12:03	18° ☿ 06'59	
	1953 Aug 11 14:04	0° ♊		min. Earth dist.	1954 Jul 03 18:04	15° ☿ 05'41	0.56354 AU
morning max el	1953 Aug 13 08:41	1° ♊ 30'21	18°49'33	inferior conj	1954 Jul 06 04:48	13° ☿ 35'19	-4°38'29
asc. node	1953 Aug 18 01:11	7° ♊ 02'43		minimum elong	1954 Jul 05 23:40	13° ☿ 43'16	4°37'46
morning set	1953 Aug 29 20:29	27° ♊ 50'08		morning rise	1954 Jul 14 13:56	9° ☿ 36'05	
	1953 Aug 30 22:59	0° ♋		direct	1954 Jul 17 06:50	9° ☿ 17'04	
				morning max el	1954 Jul 27 03:36	13° ☿ 51'42	19°49'24
superior conj	1953 Sep 07 09:35	14° ♋ 27'44	1°40'23	asc. node	1954 Aug 04 22:15	25° ☿ 20'35	
minimum elong	1953 Sep 07 11:44	14° ♋ 37'53	1°40'16		1954 Aug 07 14:44	0° ♌	
max. Earth dist.	1953 Sep 14 09:27	27° ♋ 19'59	1.39206 AU	morning set	1954 Aug 13 23:27	12° ♌ 19'06	
	1953 Sep 15 21:44	0° ♌					
evening rise	1953 Sep 18 08:20	4° ♌ 13'14		superior conj	1954 Aug 21 20:01	28° ♌ 12'34	1°45'43
desc. node	1953 Sep 25 09:05	15° ♌ 48'41		minimum elong	1954 Aug 21 20:17	28° ♌ 13'57	1°45'42
	1953 Oct 04 16:40	0° ♍			1954 Aug 22 17:42	0° ♍	
evening max el	1953 Oct 23 16:34	24° ♍ 07'09	24°18'14	max. Earth dist.	1954 Aug 27 14:04	9° ♍ 21'08	1.37197 AU
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retrograde	1953 Nov 03 21:50	0° ♎ 41'23			1954 Sep 08 08:05	0° ♏	
	1953 Nov 06 22:19	30° ♎		desc. node	1954 Sep 12 06:06	6° ♏ 16'20	
evening set	1953 Nov 09 06:43	28° ♎ 26'42			1954 Sep 29 04:06	0° ♐	
min. Earth dist.	1953 Nov 13 23:51	23° ♎ 01'33	0.67596 AU	evening max el	1954 Oct 06 04:37	7° ♐ 47'00	25°32'17
asc. node	1953 Nov 14 00:21	22° ♎ 59'52		retrograde	1954 Oct 18 08:25	14° ♐ 45'38	
inferior conj	1953 Nov 14 17:15	22° ♎ 03'04	0°14'32	evening set	1954 Oct 24 07:42	12° ♐ 15'47	
minimum elong	1953 Nov 14 16:54	22° ♎ 04'15	0°14'22	min. Earth dist.	1954 Oct 28 16:59	7° ♐ 25'48	0.67037 AU
transit middle	1953 Nov 14 16:54	22° ♎ 04'15	0°14'22	inferior conj	1954 Oct 29 21:15	5° ♐ 55'05	-0°41'28
transit begin	1953 Nov 14 15:37	22° ♎ 08'34		minimum elong	1954 Oct 29 22:19	5° ♐ 51'39	0°41'01
transit end	1953 Nov 14 18:11	21° ♎ 59'57		asc. node	1954 Oct 31 21:26	3° ♐ 25'05	
morning rise	1953 Nov 20 03:05	15° ♎ 59'02		morning rise	1954 Nov 04 13:10	29° ♏ 59'06	
direct	1953 Nov 23 22:55	14° ♎ 35'21			1954 Nov 04 12:36	30° ♏	
morning max el	1953 Dec 01 19:19	19° ♎ 05'59	20°21'08	direct	1954 Nov 07 21:30	28° ♏ 54'28	
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desc. node	1953 Dec 22 08:20	17° ♏ 10'15		morning max el	1954 Nov 15 00:07	2° ♑ 54'17	19°19'19
morning set	1953 Dec 29 17:13	28° ♏ 26'56			1954 Dec 04 07:02	0° ♒	
	1953 Dec 30 17:14	0° ♑		morning set	1954 Dec 08 17:45	6° ♒ 53'16	
max. Earth dist.	1954 Jan 08 16:52	14° ♑ 11'06	1.43534 AU	desc. node	1954 Dec 09 05:23	7° ♒ 38'24	
				max. Earth dist.	1954 Dec 22 07:27	28° ♒ 06'26	1.44690 AU
superior conj	1954 Jan 14 18:33	24° ♑ 04'42	-1°59'31		1954 Dec 23 12:10	0° ♓	
minimum elong	1954 Jan 14 14:14	23° ♑ 46'51	1°59'20				
	1954 Jan 18 07:43	0° ♒		superior conj	1954 Dec 25 12:07	3° ♓ 10'21	-1°35'46
evening rise	1954 Jan 27 08:00	15° ♒ 29'04		minimum elong	1954 Dec 25 03:31	2° ♓ 36'08	1°34'58
	1954 Feb 04 18:03	0° ♓		evening rise	1955 Jan 08 22:12	26° ♓ 37'05	
asc. node	1954 Feb 09 23:40	8° ♓ 04'51			1955 Jan 10 23:05	0° ♈	
evening max el	1954 Feb 13 20:05	12° ♓ 43'41	18°09'04	asc. node	1955 Jan 27 20:43	25° ♈ 34'44	
retrograde	1954 Feb 20 07:33	16° ♓ 07'38		evening max el	1955 Jan 28 08:28	26° ♈ 05'22	18°26'30
evening set	1954 Feb 23 03:19	15° ♓ 27'46		retrograde	1955 Feb 03 20:55	29° ♈ 39'18	
inferior conj	1954 Mar 01 09:51	10° ♓ 16'50	3°42'10	evening set	1955 Feb 06 21:58	28° ♈ 48'15	
minimum elong	1954 Mar 01 10:29	10° ♓ 15'09	3°42'08	inferior conj	1955 Feb 12 19:12	23° ♈ 18'18	3°40'38
min. Earth dist.	1954 Mar 04 05:37	7° ♓ 20'38	0.62467 AU	minimum elong	1955 Feb 12 18:09	23° ♈ 21'22	3°40'34
morning rise	1954 Mar 07 16:29	4° ♓ 17'10		min. Earth dist.	1955 Feb 14 23:44	20° ♈ 46'01	0.64299 AU
direct	1954 Mar 14 15:06	1° ♓ 42'17		morning rise	1955 Feb 18 13:45	17° ♈ 11'03	
desc. node	1954 Mar 20 07:29	3° ♓ 12'32		direct	1955 Feb 25 10:17	14° ♈ 21'25	
morning max el	1954 Mar 28 15:27	9° ♓ 37'31	27°49'18	desc. node	1955 Mar 07 04:33	18° ♈ 44'18	
	1954 Apr 13 11:34	0° ♈		morning max el	1955 Mar 11 00:28	22° ♈ 13'12	27°27'00
	1954 Apr 30 11:26	0° ♉			1955 Mar 17 20:49	0° ♉	
morning set	1954 May 01 10:23	1° ♉ 55'31			1955 Apr 06 16:14	0° ♊	
max. Earth dist.	1954 May 07 00:21	13° ♉ 35'53	1.32624 AU	morning set	1955 Apr 15 04:18	15° ♊ 48'42	
				max. Earth dist.	1955 Apr 20 01:23	25° ♊ 40'34	1.33444 AU
superior conj	1954 May 08 23:02	17° ♉ 47'55	0°00'01		1955 Apr 22 02:57	0° ♋	
minimum elong	1954 May 08 23:03	17° ♉ 47'56	0°00'01				
behind sun begin	1954 May 08 18:17	17° ♉ 22'04		superior conj	1955 Apr 23 04:35	2° ♋ 15'40	-0°27'31
behind sun end	1954 May 09 03:49	18° ♉ 13'49		minimum elong	1955 Apr 23 05:57	2° ♋ 22'58	0°27'14
asc. node	1954 May 08 23:00	17° ♉ 47'43		asc. node	1955 Apr 25 20:03	7° ♋ 54'43	
	1954 May 14 13:57	0° ♌		evening rise	1955 Apr 30 09:31	17° ♋ 38'07	
evening rise	1954 May 15 22:05	2° ♌ 51'30			1955 May 06 13:05	0° ♌	
	1954 May 30 16:13	0° ♍		evening max el	1955 May 21 22:34	22° ♌ 23'58	22°24'45
evening max el	1954 Jun 09 07:20	11° ♍ 54'08	24°00'53	desc. node	1955 Jun 03 03:45	28° ♌ 49'10	
desc. node	1954 Jun 16 06:44	17° ♍ 04'56		retrograde	1955 Jun 03 22:46	28° ♌ 50'36	

































































































































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min. Earth dist.	1955 Jun 15 05:31	24° Π 56'05	0.55201 AU	desc. node	1956 May 20 00:48	7° Π 44'19	
inferior conj	1955 Jun 16 06:26	24° Π 20'49	-3°31'26	inferior conj	1956 May 26 00:11	4° Π 43'18	-1°43'40
minimum elong	1955 Jun 15 22:32	24° Π 32'02	3°29'19	minimum elong	1956 May 25 19:19	4° Π 50'12	1°41'57
morning rise	1955 Jun 25 00:13	20° Π 29'03		min. Earth dist.	1956 May 26 17:56	4° Π 18'06	0.54930 AU
direct	1955 Jun 27 23:11	20° Π 09'13		morning rise	1956 Jun 03 22:08	0° Π 39'28	
morning max el	1955 Jul 09 11:12	25° Π 30'16	21°09'41	direct	1956 Jun 07 08:34	0° Π 14'01	
	1955 Jul 13 14:44	0° \mathfrak{C}		morning max el	1956 Jun 20 08:29	6° Π 27'16	22°45'50
asc. node	1955 Jul 22 19:19	14° \mathfrak{C} 15'51			1956 Jul 06 19:02	0° \mathfrak{C}	
morning set	1955 Jul 29 07:19	27° \mathfrak{C} 03'12		asc. node	1956 Jul 08 16:22	3° \mathfrak{C} 38'27	
	1955 Jul 30 17:22	0° Ω		morning set	1956 Jul 12 17:59	11° \mathfrak{C} 55'54	
superior conj	1955 Aug 05 16:57	12° Ω 29'25	1°43'10	superior conj	1956 Jul 19 21:01	27° \mathfrak{C} 07'27	1°34'16
minimum elong	1955 Aug 05 15:47	12° Ω 23'25	1°43'07	minimum elong	1956 Jul 19 18:57	26° \mathfrak{C} 56'31	1°34'05
max. Earth dist.	1955 Aug 10 00:04	21° Ω 12'30	1.35425 AU		1956 Jul 21 05:35	0° Ω	
evening rise	1955 Aug 14 05:27	29° Ω 23'49		max. Earth dist.	1956 Jul 22 18:48	3° Ω 15'03	1.34016 AU
	1955 Aug 14 13:08	0° \mathfrak{M}		evening rise	1956 Jul 27 15:51	13° Ω 08'25	
desc. node	1955 Aug 30 03:07	26° \mathfrak{M} 27'09			1956 Aug 05 19:06	0° \mathfrak{M}	
	1955 Sep 01 12:06	0° \mathfrak{L}		desc. node	1956 Aug 16 00:09	16° \mathfrak{M} 13'25	
evening max el	1955 Sep 18 16:43	21° \mathfrak{L} 24'55	26°33'05		1956 Aug 26 13:29	0° \mathfrak{L}	
retrograde	1955 Oct 01 13:58	28° \mathfrak{L} 38'09		evening max el	1956 Aug 31 04:42	4° \mathfrak{L} 52'17	27°13'15
evening set	1955 Oct 08 02:48	25° \mathfrak{L} 57'26		retrograde	1956 Sep 13 14:08	12° \mathfrak{L} 11'06	
min. Earth dist.	1955 Oct 12 04:45	21° \mathfrak{L} 43'56	0.66129 AU	evening set	1956 Sep 20 13:35	9° \mathfrak{L} 27'16	
inferior conj	1955 Oct 13 20:41	19° \mathfrak{L} 43'55	-1°39'36	min. Earth dist.	1956 Sep 24 08:57	5° \mathfrak{L} 49'45	0.64860 AU
minimum elong	1955 Oct 13 23:20	19° \mathfrak{L} 35'57	1°38'30	inferior conj	1956 Sep 26 13:20	3° \mathfrak{L} 25'11	-2°37'49
asc. node	1955 Oct 18 18:30	14° \mathfrak{L} 40'31		minimum elong	1956 Sep 26 17:31	3° \mathfrak{L} 13'38	2°36'18
morning rise	1955 Oct 19 20:25	13° \mathfrak{L} 58'50			1956 Sep 29 21:25	30° \mathfrak{R} \mathfrak{M}	
direct	1955 Oct 22 19:22	13° \mathfrak{L} 09'41		morning rise	1956 Oct 02 22:23	27° \mathfrak{M} 53'59	
morning max el	1955 Oct 29 11:21	16° \mathfrak{L} 49'19	18°33'10	asc. node	1956 Oct 04 15:33	27° \mathfrak{M} 21'19	
	1955 Nov 08 06:57	0° \mathfrak{M}		direct	1956 Oct 05 14:21	27° \mathfrak{M} 16'31	
morning set	1955 Nov 18 17:45	16° \mathfrak{M} 33'47			1956 Oct 11 07:30	0° \mathfrak{L}	
desc. node	1955 Nov 26 02:25	28° \mathfrak{M} 16'34		morning max el	1956 Oct 12 02:29	0° \mathfrak{L} 45'14	18°03'44
	1955 Nov 27 04:34	0° \mathfrak{X}		morning set	1956 Oct 29 22:56	27° \mathfrak{L} 40'48	
superior conj	1955 Dec 04 14:09	11° \mathfrak{X} 38'57	-0°54'47		1956 Oct 31 08:19	0° \mathfrak{M}	
minimum elong	1955 Dec 04 07:16	11° \mathfrak{X} 11'56	0°53'55	desc. node	1956 Nov 11 23:27	19° \mathfrak{M} 01'07	
max. Earth dist.	1955 Dec 05 01:51	12° \mathfrak{X} 24'50	1.45143 AU	superior conj	1956 Nov 12 21:36	20° \mathfrak{M} 29'40	-0°06'13
	1955 Dec 16 06:06	0° \mathfrak{Z}		minimum elong	1956 Nov 12 20:50	20° \mathfrak{M} 26'37	0°06'08
evening rise	1955 Dec 20 13:03	6° \mathfrak{Z} 47'38		behind sun begin	1956 Nov 12 10:53	19° \mathfrak{M} 46'52	
greatest brilliancy	1955 Dec 29 12:33	21° \mathfrak{Z} 01'42	-0.8m	behind sun end	1956 Nov 13 06:46	21° \mathfrak{M} 06'18	
	1956 Jan 04 09:16	0° \mathfrak{A}		max. Earth dist.	1956 Nov 16 20:36	26° \mathfrak{M} 46'44	1.44854 AU
evening max el	1956 Jan 11 18:29	9° \mathfrak{A} 32'12	19°01'40		1956 Nov 18 21:42	0° \mathfrak{X}	
asc. node	1956 Jan 14 17:46	12° \mathfrak{A} 04'53		evening rise	1956 Nov 29 07:03	16° \mathfrak{X} 10'09	
retrograde	1956 Jan 18 15:52	13° \mathfrak{A} 26'52			1956 Dec 08 07:11	0° \mathfrak{Z}	
evening set	1956 Jan 21 23:04	12° \mathfrak{A} 23'42		greatest brilliancy	1956 Dec 12 23:30	7° \mathfrak{Z} 02'59	-0.7m
inferior conj	1956 Jan 27 13:59	6° \mathfrak{A} 37'01	3°23'55	evening max el	1956 Dec 25 00:18	23° \mathfrak{Z} 01'43	19°52'58
minimum elong	1956 Jan 27 11:50	6° \mathfrak{A} 43'46	3°23'34	asc. node	1956 Dec 31 14:48	27° \mathfrak{Z} 20'51	
min. Earth dist.	1956 Jan 29 03:11	4° \mathfrak{A} 39'56	0.65764 AU	retrograde	1957 Jan 01 13:23	27° \mathfrak{Z} 25'46	
morning rise	1956 Feb 02 00:17	0° \mathfrak{A} 25'35		evening set	1957 Jan 05 04:16	26° \mathfrak{Z} 09'07	
	1956 Feb 02 12:18	30° \mathfrak{R} \mathfrak{Z}		inferior conj	1957 Jan 10 15:13	20° \mathfrak{Z} 08'23	2°55'48
direct	1956 Feb 08 12:10	27° \mathfrak{Z} 35'10		minimum elong	1957 Jan 10 12:36	20° \mathfrak{Z} 17'04	2°55'09
	1956 Feb 15 06:34	0° \mathfrak{A}		min. Earth dist.	1957 Jan 11 14:22	18° \mathfrak{Z} 51'18	0.66832 AU
morning max el	1956 Feb 21 10:25	5° \mathfrak{A} 12'39	26°34'03	morning rise	1957 Jan 15 20:43	13° \mathfrak{Z} 55'10	
desc. node	1956 Feb 22 01:36	5° \mathfrak{A} 51'22		direct	1957 Jan 21 19:56	11° \mathfrak{Z} 15'30	
	1956 Mar 11 10:27	0° \mathfrak{H}		morning max el	1957 Feb 02 19:20	18° \mathfrak{Z} 23'56	25°19'16
morning set	1956 Mar 28 10:44	29° \mathfrak{H} 03'21		desc. node	1957 Feb 07 22:38	24° \mathfrak{Z} 06'33	
	1956 Mar 28 22:41	0° \mathfrak{Y}			1957 Feb 12 14:30	0° \mathfrak{A}	
max. Earth dist.	1956 Apr 01 15:25	7° \mathfrak{Y} 10'43	1.34714 AU		1957 Mar 04 11:34	0° \mathfrak{H}	
superior conj	1956 Apr 06 03:55	16° \mathfrak{Y} 19'43	-0°55'26	morning set	1957 Mar 11 01:00	11° \mathfrak{H} 26'08	
minimum elong	1956 Apr 06 06:43	16° \mathfrak{Y} 34'09	0°54'55	max. Earth dist.	1957 Mar 14 17:41	18° \mathfrak{H} 14'08	1.36431 AU
asc. node	1956 Apr 11 17:05	27° \mathfrak{Y} 54'15		superior conj	1957 Mar 20 18:19	29° \mathfrak{H} 52'40	-1°22'02
	1956 Apr 12 17:10	0° \mathfrak{B}		minimum elong	1957 Mar 20 22:16	0° \mathfrak{Y} 12'14	1°21'27
evening rise	1956 Apr 13 18:32	2° \mathfrak{B} 11'46			1957 Mar 20 19:48	0° \mathfrak{Y}	
	1956 Apr 29 22:41	0° Π		evening rise	1957 Mar 28 23:02	16° \mathfrak{Y} 26'11	
evening max el	1956 May 02 21:57	3° Π 13'46	20°56'35	asc. node	1957 Mar 29 14:06	17° \mathfrak{Y} 42'08	
retrograde	1956 May 14 12:12	8° Π 52'34			1957 Apr 04 23:37	0° \mathfrak{B}	

evening max el	1957 Apr 15 09:04	14°  41'24	19°44'40		1958 Mar 12 17:31	0° 	
retrograde	1957 Apr 25 05:32	19°  26'45		asc. node	1958 Mar 16 11:08	7°  13'19	
evening set	1957 Apr 27 06:13	19°  15'33		evening max el	1958 Mar 29 07:05	26°  48'02	18°52'15
inferior conj	1957 May 06 00:34	15°  13'32	0°15'22		1958 Apr 02 19:17	0° 	
minimum elong	1957 May 06 01:14	15°  12'28	0°15'07	retrograde	1958 Apr 06 14:24	0°  50'11	
transit middle	1957 May 06 01:14	15°  12'28	0°15'07	evening set	1958 Apr 08 19:48	0°  33'58	
transit begin	1957 May 05 23:59	15°  14'26			1958 Apr 10 13:52	30°  R 	
transit end	1957 May 06 02:30	15°  10'31		inferior conj	1958 Apr 16 18:45	26°  15'55	1°54'21
desc. node	1957 May 06 21:48	14°  40'23		minimum elong	1958 Apr 16 22:31	26°  09'06	1°53'12
min. Earth dist.	1957 May 08 07:59	13°  47'35	0.55625 AU	min. Earth dist.	1958 Apr 20 00:11	23°  57'30	0.57129 AU
morning rise	1957 May 14 17:47	10°  40'35		desc. node	1958 Apr 23 18:48	21°  40'37	
direct	1957 May 19 01:04	9°  45'22		morning rise	1958 Apr 24 22:08	21°  09'05	
morning max el	1957 Jun 01 23:35	16°  57'28	24°27'51	direct	1958 Apr 30 06:57	19°  59'43	
	1957 Jun 12 13:40	0°  II		morning max el	1958 May 14 14:33	27°  27'18	26°01'15
asc. node	1957 Jun 25 13:23	23°  II21'07			1958 May 17 01:53	0°  B	
morning set	1957 Jun 27 05:47	26°  II51'57			1958 Jun 05 20:59	0°  II	
	1957 Jun 28 17:08	0°  ☿		morning set	1958 Jun 11 17:07	11°  II46'29	
				asc. node	1958 Jun 12 10:25	13°  II18'02	
superior conj	1957 Jul 04 05:37	11°  ☿58'26	1°20'12	superior conj	1958 Jun 18 16:43	26°  II55'42	1°01'51
minimum elong	1957 Jul 04 03:13	11°  ☿45'23	1°19'52	minimum elong	1958 Jun 18 14:28	26°  II43'19	1°01'28
max. Earth dist.	1957 Jul 05 22:20	15°  ☿38'42	1.33014 AU	max. Earth dist.	1958 Jun 19 08:11	28°  II20'32	1.32408 AU
evening rise	1957 Jul 11 12:39	27°  ☿23'38			1958 Jun 20 02:20	0°  ☿	
	1957 Jul 12 19:41	0°  Ω		evening rise	1958 Jun 25 16:41	11°  ☿59'52	
	1957 Jul 30 01:44	0°  ♊			1958 Jun 25 16:41	11°  ☿59'52	
desc. node	1957 Aug 02 21:09	5°  ♊24'31			1958 Jul 04 23:46	0°  Ω	
evening max el	1957 Aug 13 15:11	17°  ♊57'25	27°25'57	desc. node	1958 Jul 20 18:08	23°  Ω46'09	
retrograde	1957 Aug 27 08:04	25°  ♊15'03			1958 Jul 26 10:08	0°  ♊	
evening set	1957 Sep 03 12:49	22°  ♊39'10		evening max el	1958 Jul 26 21:37	0°  ♊27'33	27°06'26
min. Earth dist.	1957 Sep 07 03:41	19°  ♊33'36	0.63250 AU	retrograde	1958 Aug 09 18:47	7°  ♊41'34	
inferior conj	1957 Sep 09 20:32	16°  ♊52'30	-3°33'05	evening set	1958 Aug 16 20:30	5°  ♊26'33	
minimum elong	1957 Sep 10 01:45	16°  ♊39'31	3°31'33	min. Earth dist.	1958 Aug 20 11:54	2°  ♊43'31	0.61353 AU
morning rise	1957 Sep 16 15:59	11°  ♊38'23		inferior conj	1958 Aug 23 15:10	29°  Ω58'34	-4°20'25
direct	1957 Sep 19 03:37	11°  ♊09'01		minimum elong	1958 Aug 23 20:13	29°  Ω47'26	4°19'25
asc. node	1957 Sep 21 12:36	11°  ♊36'24			1958 Aug 23 14:31	30°  R  Ω	
morning max el	1957 Sep 25 18:38	14°  ♊34'54	17°51'49	morning rise	1958 Aug 30 21:36	25°  Ω04'51	
	1957 Oct 06 11:09	0°  ♊		direct	1958 Sep 02 07:42	24°  Ω40'41	
morning set	1957 Oct 12 04:56	9°  ♊59'14		asc. node	1958 Sep 08 09:38	27°  Ω18'41	
	1957 Oct 23 20:50	0°  ♊		morning max el	1958 Sep 09 08:51	28°  Ω11'45	17°58'27
superior conj	1957 Oct 24 03:28	0°  ♊27'34	0°38'10		1958 Sep 11 01:09	0°  ♊	
minimum elong	1957 Oct 24 07:08	0°  ♊42'49	0°37'39	morning set	1958 Sep 25 05:31	23°  ♊11'07	
desc. node	1957 Oct 29 20:29	9°  ♊48'12			1958 Sep 28 22:45	0°  ♊	
max. Earth dist.	1957 Oct 30 13:10	10°  ♊55'22	1.43872 AU	superior conj	1958 Oct 05 12:31	11°  ♊45'34	1°11'38
evening rise	1957 Nov 08 15:18	25°  ♊13'18		minimum elong	1958 Oct 05 17:02	12°  ♊05'21	1°11'07
	1957 Nov 11 18:00	0°  ♊		max. Earth dist.	1958 Oct 13 01:31	24°  ♊35'38	1.42320 AU
	1957 Dec 02 11:19	0°  ♊			1958 Oct 16 08:52	0°  ♊	
evening max el	1957 Dec 08 00:45	6°  ♊32'10	20°57'56	desc. node	1958 Oct 16 17:30	0°  ♊34'52	
retrograde	1957 Dec 16 11:05	11°  ♊31'46		evening rise	1958 Oct 19 06:57	4°  ♊40'28	
asc. node	1957 Dec 18 11:50	11°  ♊08'46			1958 Nov 05 02:36	0°  ♊	
evening set	1957 Dec 20 11:32	10°  ♊00'03		evening max el	1958 Nov 20 19:42	20°  ♊03'48	22°12'48
inferior conj	1957 Dec 25 20:25	3°  ♊48'17	2°18'51	retrograde	1958 Nov 30 07:16	25°  ♊42'09	
minimum elong	1957 Dec 25 17:53	3°  ♊56'58	2°18'01	evening set	1958 Dec 04 19:10	23°  ♊53'52	
min. Earth dist.	1957 Dec 26 07:00	3°  ♊11'55	0.67506 AU	asc. node	1958 Dec 05 08:52	23°  ♊24'15	
	1957 Dec 28 17:30	30°  R  ♊		inferior conj	1958 Dec 10 03:36	17°  ♊34'23	1°34'51
morning rise	1957 Dec 31 00:04	27°  ♊35'12		minimum elong	1958 Dec 10 01:37	17°  ♊41'16	1°34'05
direct	1958 Jan 05 08:38	25°  ♊14'10		min. Earth dist.	1958 Dec 10 02:49	17°  ♊37'05	0.67811 AU
	1958 Jan 14 10:03	0°  ♊		morning rise	1958 Dec 15 07:55	11°  ♊23'19	
morning max el	1958 Jan 16 03:40	1°  ♊40'13	23°52'55	direct	1958 Dec 20 01:27	9°  ♊24'43	
desc. node	1958 Jan 25 19:40	13°  ♊09'51		morning max el	1958 Dec 29 14:27	15°  ♊02'36	22°24'53
	1958 Feb 06 15:21	0°  ♊			1959 Jan 10 16:47	0°  ♊	
morning set	1958 Feb 20 17:07	22°  ♊40'24		desc. node	1959 Jan 12 16:43	2°  ♊47'40	
max. Earth dist.	1958 Feb 24 12:59	29°  ♊21'08	1.38484 AU		1959 Jan 30 15:41	0°  ♊	
	1958 Feb 24 21:44	0°  ♊		morning set	1959 Feb 01 05:20	2°  ♊32'27	
				max. Earth dist.	1959 Feb 06 09:41	11°  ♊08'42	1.40637 AU
superior conj	1958 Mar 03 20:12	12°  ♊45'06	-1°44'54	superior conj	1959 Feb 14 04:54	24°  ♊45'17	-2°00'35
minimum elong	1958 Mar 04 00:26	13°  ♊05'10	1°44'28	minimum elong	1959 Feb 14 07:43	24°  ♊57'54	2°00'27
evening rise	1958 Mar 12 20:28	0°  ♊					

	1959 Feb 17 02:15	0° H		evening rise	1960 Feb 07 04:51	26° \approx 00'35	
evening rise	1959 Feb 24 07:41	13° H 28'41			1960 Feb 09 10:13	0° H	
asc. node	1959 Mar 03 08:10	26° H 21'36		asc. node	1960 Feb 18 05:13	14° H 59'47	
	1959 Mar 05 11:52	0° Y		evening max el	1960 Feb 23 23:56	22° H 27'44	18°07'28
evening max el	1959 Mar 12 13:06	9° Y 26'15	18°19'56	retrograde	1960 Mar 01 15:10	25° H 52'08	
retrograde	1959 Mar 19 18:34	13° Y 01'39		evening set	1960 Mar 04 07:51	25° H 18'26	
evening set	1959 Mar 22 05:53	12° Y 37'30		inferior conj	1960 Mar 10 21:16	20° H 19'02	3°34'05
inferior conj	1959 Mar 29 10:17	7° Y 58'49	2°59'59	minimum elong	1960 Mar 10 23:04	20° H 14'38	3°33'55
minimum elong	1959 Mar 29 13:53	7° Y 51'13	2°59'13	min. Earth dist.	1960 Mar 14 00:26	17° H 17'14	0.61273 AU
min. Earth dist.	1959 Apr 01 20:42	5° Y 06'28	0.59129 AU	morning rise	1960 Mar 17 12:36	14° H 25'42	
morning rise	1959 Apr 05 19:20	2° Y 23'53		direct	1960 Mar 24 08:05	12° H 05'58	
desc. node	1959 Apr 10 15:52	0° Y 43'49		desc. node	1960 Mar 27 12:55	12° H 34'31	
direct	1959 Apr 12 01:53	0° Y 38'27		morning max el	1960 Apr 07 12:52	20° H 00'12	27°46'04
morning max el	1959 Apr 26 10:27	8° Y 23'14	27°10'49		1960 Apr 16 02:22	0° Y	
	1959 May 12 19:48	0° B			1960 May 04 16:45	0° B	
morning set	1959 May 27 02:18	26° B 32'43		morning set	1960 May 10 07:27	11° B 04'41	
	1959 May 28 17:35	0° II		asc. node	1960 May 16 04:30	23° B 32'25	
asc. node	1959 May 30 07:27	3° II 23'12		max. Earth dist.	1960 May 16 07:32	23° B 48'51	1.32347 AU
superior conj	1959 Jun 03 04:30	11° II 52'02	0°39'59	superior conj	1960 May 17 15:17	26° B 42'03	0°15'16
minimum elong	1959 Jun 03 02:50	11° II 42'52	0°39'38	minimum elong	1960 May 17 14:35	26° B 38'13	0°15'07
max. Earth dist.	1959 Jun 02 20:32	11° II 08'12	1.32184 AU	behind sun begin	1960 May 17 13:02	26° B 29'45	
evening rise	1959 Jun 10 01:20	26° II 47'30		behind sun end	1960 May 17 16:08	26° B 46'41	
	1959 Jun 11 14:11	0° E			1960 May 19 03:27	0° II	
	1959 Jun 28 16:31	0° Ω		evening rise	1960 May 24 12:33	11° II 39'44	
desc. node	1959 Jul 07 15:09	10° Ω 56'51			1960 Jun 02 20:31	0° E	
evening max el	1959 Jul 08 21:19	12° Ω 11'05	26°13'58	evening max el	1960 Jun 19 14:00	23° E 09'19	24°54'16
retrograde	1959 Jul 22 21:02	19° Ω 22'09		desc. node	1960 Jun 23 12:10	26° E 28'07	
evening set	1959 Jul 29 07:51	17° Ω 40'03			1960 Jul 01 01:13	0° Ω	
min. Earth dist.	1959 Aug 02 10:06	15° Ω 03'58	0.59296 AU	retrograde	1960 Jul 03 13:15	0° Ω 14'36	
inferior conj	1959 Aug 05 17:33	12° Ω 32'36	-4°51'49		1960 Jul 06 01:23	30° R E	
minimum elong	1959 Aug 05 20:18	12° Ω 27'20	4°51'35	evening set	1960 Jul 08 19:34	29° E 11'24	
morning rise	1959 Aug 13 10:53	8° Ω 01'50		min. Earth dist.	1960 Jul 14 01:23	26° E 23'32	0.57321 AU
direct	1959 Aug 15 22:05	7° Ω 40'48		inferior conj	1960 Jul 17 00:34	24° E 25'43	-4°55'03
morning max el	1959 Aug 23 17:59	11° Ω 26'42	18°24'56	minimum elong	1960 Jul 16 22:33	24° E 29'05	4°54'56
asc. node	1959 Aug 26 06:42	14° Ω 12'46		morning rise	1960 Jul 25 04:12	20° E 16'54	
	1959 Sep 05 02:28	0° M		direct	1960 Jul 27 18:24	19° E 57'39	
morning set	1959 Sep 08 19:16	7° M 00'39		morning max el	1960 Aug 05 18:57	24° E 10'39	19°12'25
					1960 Aug 10 17:49	0° Ω	
superior conj	1959 Sep 17 21:05	24° M 12'57	1°33'04	asc. node	1960 Aug 12 03:45	2° Ω 03'51	
minimum elong	1959 Sep 18 00:18	24° M 27'50	1°32'48	morning set	1960 Aug 22 18:16	21° Ω 17'20	
	1959 Sep 21 01:20	0° $\underline{\Omega}$			1960 Aug 27 03:11	0° M	
max. Earth dist.	1959 Sep 25 08:26	7° $\underline{\Omega}$ 33'48	1.40387 AU				
evening rise	1959 Sep 29 18:52	15° $\underline{\Omega}$ 03'45		superior conj	1960 Aug 30 23:33	7° M 33'52	1°43'43
desc. node	1959 Oct 03 14:31	21° $\underline{\Omega}$ 17'14		minimum elong	1960 Aug 31 00:52	7° M 40'16	1°43'40
	1959 Oct 09 04:02	0° M		max. Earth dist.	1960 Sep 06 12:00	19° M 49'29	1.38331 AU
	1959 Oct 31 01:16	0° J		evening rise	1960 Sep 10 06:58	26° M 34'49	
evening max el	1959 Nov 03 10:14	3° J 37'37	23°32'36		1960 Sep 12 06:29	0° $\underline{\Omega}$	
retrograde	1959 Nov 14 00:37	9° J 53'28		desc. node	1960 Sep 19 11:31	11° $\underline{\Omega}$ 51'28	
evening set	1959 Nov 19 01:34	7° J 48'03			1960 Oct 01 17:17	0° M	
asc. node	1959 Nov 22 05:55	4° J 22'00		evening max el	1960 Oct 15 22:26	17° M 14'51	24°50'53
inferior conj	1959 Nov 24 10:56	1° J 24'37	0°45'10	retrograde	1960 Oct 27 14:02	24° M 01'30	
minimum elong	1959 Nov 24 09:53	1° J 28'12	0°44'44	evening set	1960 Nov 02 05:02	21° M 39'48	
min. Earth dist.	1959 Nov 23 23:29	2° J 03'47	0.67766 AU	min. Earth dist.	1960 Nov 06 18:39	16° M 29'25	0.67392 AU
	1959 Nov 25 11:53	30° R M		inferior conj	1960 Nov 07 16:40	15° M 16'37	-0°08'54
morning rise	1959 Nov 29 18:11	25° M 17'30		minimum elong	1960 Nov 07 16:53	15° M 15'54	0°08'48
direct	1959 Dec 03 21:25	23° M 41'46		transit middle	1960 Nov 07 16:53	15° M 15'54	0°08'48
morning max el	1959 Dec 12 07:12	28° M 34'41	21°03'09	transit begin	1960 Nov 07 14:34	15° M 23'34	
	1959 Dec 13 15:42	0° J		transit end	1960 Nov 07 19:12	15° M 08'14	
desc. node	1959 Dec 30 13:46	22° J 50'18		asc. node	1960 Nov 08 03:00	14° M 42'32	
	1960 Jan 04 08:24	0° Z		morning rise	1960 Nov 13 04:52	9° M 15'44	
morning set	1960 Jan 11 13:57	11° Z 08'39		direct	1960 Nov 16 19:27	8° M 00'45	
max. Earth dist.	1960 Jan 19 12:56	23° Z 51'36	1.42591 AU	morning max el	1960 Nov 24 07:37	12° M 17'21	19°53'01
	1960 Jan 23 06:16	0° \approx			1960 Dec 07 17:30	0° J	
				desc. node	1960 Dec 16 10:48	13° J 10'20	
superior conj	1960 Jan 26 15:10	5° \approx 40'51	-2°04'32	morning set	1960 Dec 20 09:53	19° J 15'59	
minimum elong	1960 Jan 26 14:02	5° \approx 35'59	2°04'32		1960 Dec 27 07:21	0° Z	

max. Earth dist.	1960 Dec 31 23:17	7°  22'25	1.44095 AU	morning set	1961 Nov 29 18:36	28°  09'02	
					1961 Nov 30 22:54	0° 	
superior conj	1961 Jan 05 23:06	15°  23'55	-1°51'50	desc. node	1961 Dec 03 07:51	3°  43'11	
minimum elong	1961 Jan 05 16:31	14°  57'13	1°51'23	max. Earth dist.	1961 Dec 14 15:24	21°  28'04	1.44973 AU
	1961 Jan 14 18:58	0° 					
evening rise	1961 Jan 19 07:30	7°  40'31		superior conj	1961 Dec 16 08:04	24°  08'12	-1°20'06
	1961 Feb 01 21:39	0° 		minimum elong	1961 Dec 15 23:20	23°  33'46	1°19'09
asc. node	1961 Feb 04 02:17	2°  57'41			1961 Dec 20 01:04	0° 	
evening max el	1961 Feb 06 12:32	5°  43'37	18°14'16	evening rise	1961 Dec 31 11:49	18°  23'18	
retrograde	1961 Feb 12 23:32	9°  10'35			1962 Jan 07 15:08	0° 	
evening set	1961 Feb 15 21:23	8°  16'15		evening max el	1962 Jan 21 00:13	19°  07'57	18°39'25
inferior conj	1961 Feb 21 23:35	3°  07'13	3°43'38	asc. node	1962 Jan 21 23:19	20°  03'42	
minimum elong	1961 Feb 21 23:26	3°  07'37	3°43'39	retrograde	1962 Jan 27 15:31	22°  49'14	
min. Earth dist.	1961 Feb 24 13:09	0°  18'57	0.63281 AU	evening set	1962 Jan 30 19:04	21°  53'11	
	1961 Feb 24 20:22	30° 		inferior conj	1962 Feb 05 13:19	16°  16'07	3°35'06
morning rise	1961 Feb 28 00:34	27°  03'34		minimum elong	1962 Feb 05 11:43	16°  20'56	3°34'56
direct	1961 Mar 06 23:16	24°  20'19		min. Earth dist.	1962 Feb 07 11:20	13°  57'38	0.64976 AU
desc. node	1961 Mar 14 09:58	26°  55'03		morning rise	1962 Feb 11 03:55	10°  06'53	
	1961 Mar 18 10:16	0° 		direct	1962 Feb 17 21:35	7°  14'58	
morning max el	1961 Mar 20 20:05	2°  16'11	27°43'57	desc. node	1962 Mar 01 07:02	13°  10'34	
	1961 Apr 10 09:22	0° 		morning max el	1962 Mar 03 05:31	15°  02'10	27°07'38
morning set	1961 Apr 24 06:16	25°  14'13			1962 Mar 15 11:43	0° 	
	1961 Apr 26 14:34	0° 			1962 Apr 03 02:32	0° 	
max. Earth dist.	1961 Apr 29 13:02	6°  08'14	1.32916 AU	morning set	1962 Apr 07 19:45	8°  51'56	
				max. Earth dist.	1962 Apr 12 09:24	17°  56'44	1.33926 AU
superior conj	1961 May 01 23:17	11°  19'25	-0°11'32				
minimum elong	1961 May 01 23:51	11°  22'27	0°11'25	superior conj	1962 Apr 16 02:29	25°  37'47	-0°39'24
behind sun begin	1961 May 01 20:09	11°  02'31		minimum elong	1962 Apr 16 04:28	25°  48'13	0°39'00
behind sun end	1961 May 02 03:33	11°  08'42'23			1962 Apr 18 04:10	0° 	
asc. node	1961 May 03 01:34	13°  08'41'07		asc. node	1962 Apr 19 22:36	3°  45'17	
evening rise	1961 May 09 00:24	26°  08'29'39		evening rise	1962 Apr 23 11:00	11°  08'11'06	
	1961 May 10 16:34	0° 			1962 May 03 06:04	0° 	
	1961 May 28 17:23	0° 		evening max el	1962 May 13 21:54	14°  16'31	21°45'42
evening max el	1961 Jun 01 03:46	3°  40'58	23°19'49	retrograde	1962 May 26 09:09	20°  12'3'50	
desc. node	1961 Jun 10 09:11	9°  44'37		desc. node	1962 May 28 06:13	20°  15'51	
retrograde	1961 Jun 14 17:06	10°  42'7'18		evening set	1962 May 28 22:34	20°  12'09'08	
evening set	1961 Jun 18 11:22	9°  45'6'16		inferior conj	1962 Jun 07 08:22	16°  12'06'37	-2°49'24
min. Earth dist.	1961 Jun 25 13:43	6°  42'03	0.55767 AU	minimum elong	1962 Jun 07 01:04	16°  12'16'48	2°47'07
inferior conj	1961 Jun 27 11:42	5°  43'4'14	-4°16'02	min. Earth dist.	1962 Jun 07 01:30	16°  12'16'12	0.54969 AU
minimum elong	1961 Jun 27 04:46	5°  44'3'30	4°14'41	morning rise	1962 Jun 16 04:41	12°  11'5'58	
morning rise	1961 Jul 06 00:44	1°  39'5'52		direct	1962 Jun 19 07:45	11°  11'5'50'26	
direct	1961 Jul 08 19:36	1°  42'0'57		morning max el	1962 Jul 01 11:57	17°  11'34'01	21°49'03
morning max el	1961 Jul 19 09:12	6°  41'4'37	20°21'11		1962 Jul 11 07:36	0° 	
asc. node	1961 Jul 30 00:49	20°  43'8'50		asc. node	1962 Jul 16 21:51	9°  46'4'40	
	1961 Aug 04 01:15	0° 		morning set	1962 Jul 22 08:52	20°  41'4'47	
morning set	1961 Aug 06 23:35	5°  53'2'25			1962 Jul 26 18:50	0° 	
superior conj	1961 Aug 14 14:56	21°  08'33'54	1°45'29	superior conj	1962 Jul 29 15:14	6°  00'0'36	1°40'05
minimum elong	1961 Aug 14 14:33	21°  08'31'54	1°45'29	minimum elong	1962 Jul 29 13:37	5°  02'52'11	1°39'59
	1961 Aug 18 20:52	0° 		max. Earth dist.	1962 Aug 02 07:37	13°  02'36'52	1.34781 AU
max. Earth dist.	1961 Aug 19 17:56	1°  08'42'00	1.36403 AU	evening rise	1962 Aug 06 19:27	22°  02'30'14	
evening rise	1961 Aug 23 16:45	9°  08'0'08'05			1962 Aug 10 19:29	0° 	
	1961 Sep 04 22:32	0° 		desc. node	1962 Aug 24 05:33	22°  08'14'14	
desc. node	1961 Sep 06 08:32	2°  12'4'48			1962 Aug 29 15:48	0° 	
	1961 Sep 27 12:16	0° 		evening max el	1962 Sep 10 22:51	14°  43'30'36	26°53'11
evening max el	1961 Sep 28 10:27	0°  54'54'59	26°00'17	retrograde	1962 Sep 24 01:53	21°  43'46'29	
retrograde	1961 Oct 10 22:42	8°  01'0'1'35		evening set	1962 Sep 30 19:37	19°  43'03'41	
evening set	1961 Oct 17 03:47	5°  01'26'37		min. Earth dist.	1962 Oct 04 18:47	15°  43'05'28	0.65636 AU
min. Earth dist.	1961 Oct 21 09:55	0°  01'51'46	0.66688 AU	inferior conj	1962 Oct 06 15:49	12°  43'54'37	-2°04'23
	1961 Oct 22 02:29	30° 		minimum elong	1962 Oct 06 19:08	12°  43'44'57	2°03'05
inferior conj	1961 Oct 22 18:59	29°  43'08'12	-1°05'58	morning rise	1962 Oct 12 19:19	7°  43'14'46	
minimum elong	1961 Oct 22 20:43	29°  43'02'47	1°05'13	asc. node	1962 Oct 12 21:04	7°  43'12'34	
asc. node	1961 Oct 26 00:02	25°  43'23'32		direct	1962 Oct 15 15:04	6°  43'30'54	
morning rise	1961 Oct 28 14:00	23°  43'16'14		morning max el	1962 Oct 22 04:29	10°  43'04'45	18°18'30
direct	1961 Oct 31 18:01	22° 43'18'41			1962 Nov 05 02:20	0°	
morning max el	1961 Nov 07 15:21	26° 43'09'03	18°57'38	morning set	1962 Nov 10 07:10	8° 43'08'19	
	1961 Nov 10 23:53	0°		desc. node	1962 Nov 20 04:52	24° 43'08'24'18	

	1962 Nov 23 17:31	0°♊		morning max el	1963 Oct 05 20:23	23°♏58'41	17°56'26
					1963 Oct 10 16:44	0°♏	
superior conj	1962 Nov 25 09:36	2°♊38'12 -0°34'20		morning set	1963 Oct 22 23:38	20°♏06'59	
minimum elong	1962 Nov 25 05:10	2°♊20'41 0°33'45			1963 Oct 28 19:54	0°♏	
max. Earth dist.	1962 Nov 27 10:37	5°♊51'04 1.45119 AU					
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	1962 Dec 12 20:51	0°♊		minimum elong	1963 Nov 05 02:41	11°♏59'44	0°13'29
greatest brilliancy	1962 Dec 22 21:46	15°♊37'00 -0.7m		behind sun begin	1963 Nov 04 21:01	11°♏36'43	
	1963 Jan 02 01:10	0°♊		behind sun end	1963 Nov 05 08:22	12°♏22'42	
evening max el	1963 Jan 04 08:42	2°♊36'18 19°21'41		desc. node	1963 Nov 07 01:53	15°♏10'08	
asc. node	1963 Jan 08 20:20	6°♊04'01		max. Earth dist.	1963 Nov 10 05:16	20°♏11'10	1.44522 AU
retrograde	1963 Jan 11 11:47	6°♊42'04			1963 Nov 16 11:07	0°♊	
evening set	1963 Jan 14 22:10	5°♊33'10		evening rise	1963 Nov 21 04:58	7°♊20'39	
inferior conj	1963 Jan 20 11:07	29°♊40'12 3°13'12			1963 Dec 06 05:17	0°♊	
minimum elong	1963 Jan 20 08:43	29°♊48'00 3°12'42		evening max el	1963 Dec 18 12:15	16°♊05'52	20°19'06
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direct	1963 Feb 01 01:58	20°♊41'06		inferior conj	1964 Jan 04 14:17	13°♊15'19	2°41'05
morning max el	1963 Feb 13 15:01	28°♊07'11 26°04'21		minimum elong	1964 Jan 04 11:39	13°♊24'13	2°40'19
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morning set	1963 Mar 21 19:57	21°♊46'13		morning max el	1964 Jan 26 23:37	11°♊21'23	24°43'25
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evening set	1963 May 08 23:48	0°♊26'43			1964 Apr 02 00:57	0°♊	
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desc. node	1963 May 15 03:14	28°♊10'02		retrograde	1964 Apr 16 21:50	11°♊31'18	
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minimum elong	1963 May 18 00:42	26°♊32'18 0°51'34		inferior conj	1964 Apr 27 10:10	7°♊10'16	1°01'05
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morning max el	1963 Jun 13 05:50	28°♊16'57 23°29'17		morning rise	1964 May 05 22:25	2°♊22'39	
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asc. node	1963 Jul 03 18:53	29°♊19'05		morning max el	1964 May 24 20:17	8°♊43'39	25°09'42
	1963 Jul 04 03:00	0°♊			1964 Jun 09 15:45	0°♊	
morning set	1963 Jul 06 20:15	5°♊37'10		asc. node	1964 Jun 19 15:55	19°♊08'25	
				morning set	1964 Jun 20 08:04	20°♊33'14	
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	1963 Aug 03 09:20	0°♊			1964 Jul 09 00:38	0°♊	
desc. node	1963 Aug 11 02:33	11°♊47'06			1964 Jul 27 11:35	0°♊	
evening max el	1963 Aug 24 10:31	27°♊50'15 27°22'13		desc. node	1964 Jul 27 23:33	0°♊39'20	
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retrograde	1963 Sep 06 23:09	5°♊08'16		retrograde	1964 Aug 19 14:14	17°♊57'45	
evening set	1963 Sep 14 01:53	2°♊26'19		evening set	1964 Aug 26 19:05	15°♊28'41	
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minimum elong	1963 Sep 20 09:30	26°♊18'10 3°00'14		morning rise	1964 Sep 09 07:11	4°♊44'15	
morning rise	1963 Sep 26 18:09	21°♊06'20		direct	1964 Sep 11 17:48	4°♊17'28	
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asc. node	1963 Sep 29 18:06	20°♊33'30					




























































































































morning max el	1964 Sep 18 12:10	7°  44'18	17°52'19	morning max el	1965 Sep 02 00:40	21°  13'09	18°07'14
	1964 Oct 03 00:12	0° 		asc. node	1965 Sep 02 12:12	21°  41'53	
morning set	1964 Oct 04 14:16	2°  50'10			1965 Sep 08 17:14	0° 	
				morning set	1965 Sep 17 21:02	16°  19'34	
superior conj	1964 Oct 15 18:44	22°  26'22	0°53'51		1965 Sep 25 05:49	0° 	
minimum elong	1964 Oct 15 23:09	22°  45'05	0°53'17				
	1964 Oct 20 07:11	0° 		superior conj	1965 Sep 27 14:27	4°  15'49	1°22'09
max. Earth dist.	1964 Oct 22 20:07	4°  09'13	1.43268 AU	minimum elong	1965 Sep 27 18:35	4°  34'18	1°21'44
desc. node	1964 Oct 23 22:53	5°  15'34		max. Earth dist.	1965 Oct 05 05:36	17°  30'42	1.41525 AU
evening rise	1964 Oct 30 14:16	16°  12'42		evening rise	1965 Oct 10 13:29	26°  17'06	
	1964 Nov 08 11:02	0° 		desc. node	1965 Oct 10 19:54	26°  42'57	
evening max el	1964 Nov 30 10:11	29°  36'31	21°28'49		1965 Oct 12 21:15	0° 	
	1964 Nov 30 19:30	0° 			1965 Nov 02 06:04	0° 	
retrograde	1964 Dec 09 07:05	4°  53'05		evening max el	1965 Nov 13 03:02	13°  38'57	22°46'34
asc. node	1964 Dec 12 14:23	3°  52'44		retrograde	1965 Nov 23 02:15	19°  34'07	
evening set	1964 Dec 13 12:07	3°  14'28		evening set	1965 Nov 27 19:24	17°  38'48	
	1964 Dec 16 14:31	30°  14'28		asc. node	1965 Nov 29 11:27	15°  31'58	
inferior conj	1964 Dec 18 20:36	26°  35'43	2°00'57	inferior conj	1965 Dec 03 04:05	10°  34'08	1°14'22
minimum elong	1964 Dec 18 18:15	27°  06'50	2°00'08	minimum elong	1965 Dec 03 02:27	10°  32'46	1°13'44
min. Earth dist.	1964 Dec 19 02:12	26°  39'20	0.67673 AU	min. Earth dist.	1965 Dec 02 22:47	11°  35'27	0.67831 AU
morning rise	1964 Dec 24 00:13	20°  46'04		morning rise	1965 Dec 08 09:22	4°  37'13	
direct	1964 Dec 29 02:15	18°  34'29		direct	1965 Dec 12 20:40	2°  48'19	
morning max el	1965 Jan 08 08:43	24°  40'52	23°15'08	morning max el	1965 Dec 21 21:34	8°  36'38	21°48'50
	1965 Jan 13 03:12	0° 		desc. node	1966 Jan 06 19:11	28°  35'43	
desc. node	1965 Jan 19 22:09	8°  46'23			1966 Jan 07 18:26	0° 	
	1965 Feb 03 09:02	0° 		morning set	1966 Jan 23 06:03	23°  39'13	
morning set	1965 Feb 12 06:23	14°  22'33			1966 Jan 27 04:10	0° 	
max. Earth dist.	1965 Feb 16 12:02	21°  36'14	1.39402 AU	max. Earth dist.	1966 Jan 29 10:31	3°  44'25	1.41511 AU
	1965 Feb 21 05:40	0° 					
superior conj	1965 Feb 24 03:07	5°  38'00	-1°52'41	superior conj	1966 Feb 06 02:54	16°  32'07	-2°04'00
minimum elong	1965 Feb 24 07:01	5°  36'05	1°52'23	minimum elong	1966 Feb 06 04:21	16°  38'29	2°03'59
evening rise	1965 Mar 05 13:47	23°  38'50			1966 Feb 13 10:17	0° 	
	1965 Mar 09 02:19	0° 		evening rise	1966 Feb 16 19:29	6°  13'43	
asc. node	1965 Mar 10 13:42	2°  44'31		asc. node	1966 Feb 25 10:46	21°  41'02	
evening max el	1965 Mar 21 19:51	19°  26'29	18°36'03		1966 Mar 03 02:57	0° 	
retrograde	1965 Mar 29 14:52	23°  15'20		evening max el	1966 Mar 05 04:22	2°  16'03	18°12'17
evening set	1965 Mar 31 22:40	22°  56'09		retrograde	1966 Mar 12 02:18	5°  44'32	
inferior conj	1965 Apr 08 13:26	18°  29'49	2°26'22	evening set	1966 Mar 14 16:03	5°  16'27	
minimum elong	1965 Apr 08 17:27	18°  22'03	2°25'17	inferior conj	1966 Mar 21 13:38	0°  29'10	3°17'52
min. Earth dist.	1965 Apr 11 22:58	15°  53'48	0.57939 AU	minimum elong	1966 Mar 21 16:33	0°  22'35	3°17'24
morning rise	1965 Apr 16 09:09	13°  09'27			1966 Mar 22 02:34	30°  14'38	
desc. node	1965 Apr 17 21:19	12°  31'30		min. Earth dist.	1966 Mar 24 22:16	27°  34'29	0.60047 AU
direct	1965 Apr 22 04:00	11°  45'00		morning rise	1966 Mar 28 14:51	24°  45'27	
morning max el	1965 May 06 13:04	19°  22'06	26°34'31	direct	1966 Apr 04 04:24	22°  44'13	
	1965 May 15 13:19	0° 		desc. node	1966 Apr 04 18:22	22°  45'09	
	1965 Jun 02 03:47	0° 			1966 Apr 17 21:31	0° 	
morning set	1965 Jun 04 18:41	5°  24'35		morning max el	1966 Apr 18 11:31	0°  33'58	27°30'18
asc. node	1965 Jun 06 12:59	9°  09'12			1966 May 09 14:48	0° 	
superior conj	1965 Jun 11 19:02	20°  23'02	0°52'58	morning set	1966 May 20 02:24	20°  30'57	
minimum elong	1965 Jun 11 16:59	20°  25'44	0°52'35	asc. node	1966 May 24 10:03	29°  16'52	
max. Earth dist.	1965 Jun 12 00:21	21°  06'17	1.32260 AU		1966 May 24 17:59	0° 	
	1965 Jun 16 02:04	0° 		max. Earth dist.	1966 May 26 12:29	3°  52'11	1.32202 AU
evening rise	1965 Jun 18 17:11	5°  35'47		superior conj	1966 May 27 06:38	5°  31'49	0°29'49
	1965 Jul 01 15:55	0° 		minimum elong	1966 May 27 05:20	5°  24'41	0°29'32
desc. node	1965 Jul 14 20:35	18°  33'48		evening rise	1966 Jun 03 03:12	20°  26'39	
evening max el	1965 Jul 18 23:02	22°  51'41	26°48'00		1966 Jun 07 19:11	0° 	
	1965 Jul 31 11:23	0° 			1966 Jun 26 19:05	0° 	
retrograde	1965 Aug 01 21:56	0°  05'17		evening max el	1966 Jun 30 19:51	4°  16'16	25°42'58
	1965 Aug 03 08:09	30°  14'28		desc. node	1966 Jul 01 17:37	5°  06'51	
evening set	1965 Aug 08 18:44	28°  02'56		retrograde	1966 Jul 14 20:14	11°  25'19	
min. Earth dist.	1965 Aug 12 13:00	25°  24'59	0.60478 AU	evening set	1966 Jul 20 20:14	10°  00'05	
inferior conj	1965 Aug 15 19:11	22°  43'11	-4°36'24	min. Earth dist.	1966 Jul 25 08:09	7°  20'54	0.58421 AU
minimum elong	1965 Aug 15 23:34	22°  34'03	4°35'43	inferior conj	1966 Jul 28 13:43	5°  01'43	-4°57'33
morning rise	1965 Aug 23 06:20	17°  59'11		minimum elong	1966 Jul 28 14:41	4°  59'57	4°57'32
direct	1965 Aug 25 16:24	17°  36'45		morning rise	1966 Aug 05 11:28	0°  40'19	
				direct	1966 Aug 07 23:42	0°  20'11	

morning max el	1966 Aug 16 06:41	4°♎16'27	18°42'30	direct	1967 Jul 20 12:01	12°♏15'21	
asc. node	1966 Aug 20 09:16	9°♎02'22		morning max el	1967 Jul 30 03:12	16°♏43'46	19°39'09
	1966 Sep 01 10:35	0°♎		asc. node	1967 Aug 07 06:19	27°♏13'25	
morning set	1966 Sep 01 15:14	0°♎22'38			1967 Aug 08 22:09	0°♎	
				morning set	1967 Aug 16 17:14	14°♎48'37	
superior conj	1966 Sep 10 07:22	17°♎08'19	1°38'47		1967 Aug 24 06:17	0°♎	
minimum elong	1966 Sep 10 09:48	17°♎19'47	1°38'37				
	1966 Sep 17 08:19	0°♎		superior conj	1967 Aug 24 15:51	0°♎47'21	1°45'26
max. Earth dist.	1966 Sep 17 10:46	0°♎10'48	1.39516 AU	minimum elong	1967 Aug 24 16:24	0°♎50'02	1°45'26
evening rise	1966 Sep 21 11:51	7°♎10'19		max. Earth dist.	1967 Aug 30 15:02	12°♎15'27	1.37485 AU
desc. node	1966 Sep 27 16:56	17°♎22'59		evening rise	1967 Sep 03 09:39	19°♎08'48	
	1966 Oct 05 22:03	0°♎			1967 Sep 09 16:53	0°♎	
evening max el	1966 Oct 26 16:31	26°♎45'21	24°06'30	desc. node	1967 Sep 14 13:58	7°♎52'40	
	1966 Oct 30 07:38	0°♎			1967 Sep 30 01:46	0°♎	
retrograde	1966 Nov 06 17:55	3°♎14'46		evening max el	1967 Oct 09 04:33	10°♎24'41	25°21'54
evening set	1966 Nov 12 00:45	1°♎02'27		retrograde	1967 Oct 21 05:16	17°♎20'29	
	1966 Nov 13 03:26	30°♎		evening set	1967 Oct 27 02:27	14°♎52'32	
asc. node	1966 Nov 16 08:30	26°♎07'57		min. Earth dist.	1967 Oct 31 12:48	9°♎57'21	0.67141 AU
inferior conj	1966 Nov 17 10:58	24°♎38'50	0°22'42	inferior conj	1967 Nov 01 15:28	8°♎31'05	-0°32'47
minimum elong	1966 Nov 17 10:25	24°♎40'40	0°22'29	minimum elong	1967 Nov 01 16:18	8°♎28'22	0°32'26
min. Earth dist.	1966 Nov 16 19:08	25°♎32'21	0.67656 AU	asc. node	1967 Nov 03 05:32	6°♎30'22	
morning rise	1966 Nov 22 20:05	18°♎33'58		morning rise	1967 Nov 07 06:22	2°♎33'52	
direct	1966 Nov 26 17:49	17°♎07'10		direct	1967 Nov 10 16:16	1°♎26'41	
morning max el	1966 Dec 04 17:22	21°♎43'00	20°31'32	morning max el	1967 Nov 17 21:07	5°♎30'24	19°27'34
	1966 Dec 11 15:27	0°♎		greatest brilliancy	1967 Dec 01 08:57	23°♎36'59	-0.7m
desc. node	1966 Dec 24 16:12	18°♎46'38			1967 Dec 05 13:41	0°♎	
	1967 Jan 01 00:52	0°♎		desc. node	1967 Dec 11 13:15	9°♎13'08	
morning set	1967 Jan 02 06:22	1°♎54'12		morning set	1967 Dec 12 04:59	10°♎14'05	
max. Earth dist.	1967 Jan 11 17:04	16°♎50'00	1.43309 AU		1967 Dec 24 20:33	0°♎	
				max. Earth dist.	1967 Dec 25 06:51	0°♎40'45	1.44558 AU
superior conj	1967 Jan 18 02:11	27°♎17'17	-2°01'26				
minimum elong	1967 Jan 17 22:43	27°♎02'50	2°01'18	superior conj	1967 Dec 28 23:18	6°♎32'23	-1°40'36
	1967 Jan 19 17:05	0°♎		minimum elong	1967 Dec 28 15:03	5°♎59'26	1°39'53
evening rise	1967 Jan 30 09:15	18°♎24'14		evening rise	1968 Jan 12 02:50	29°♎41'18	
	1967 Feb 06 00:38	0°♎			1968 Jan 12 07:19	0°♎	
asc. node	1967 Feb 12 07:49	10°♎03'21		asc. node	1968 Jan 30 04:51	27°♎41'13	
evening max el	1967 Feb 16 16:20	15°♎24'44	18°08'04	evening max el	1968 Jan 31 04:49	28°♎45'17	18°22'43
retrograde	1967 Feb 23 04:26	18°♎48'25			1968 Feb 01 12:57	0°♎	
evening set	1967 Feb 25 23:26	18°♎10'06		retrograde	1968 Feb 06 16:40	2°♎17'09	
inferior conj	1967 Mar 04 07:36	13°♎02'01	3°40'42	evening set	1968 Feb 09 16:51	1°♎27'53	
minimum elong	1967 Mar 04 08:33	12°♎59'36	3°40'40		1968 Feb 11 18:54	30°♎	
min. Earth dist.	1967 Mar 07 05:24	10°♎03'49	0.62163 AU	inferior conj	1968 Feb 15 15:16	26°♎00'38	3°41'56
morning rise	1967 Mar 10 16:23	7°♎03'51		minimum elong	1968 Feb 15 14:25	26°♎03'02	3°41'53
direct	1967 Mar 17 14:27	4°♎32'37		min. Earth dist.	1968 Feb 17 22:08	23°♎23'48	0.64046 AU
desc. node	1967 Mar 22 15:25	5°♎43'34		morning rise	1968 Feb 21 11:21	19°♎54'05	
morning max el	1967 Mar 31 16:03	12°♎27'35	27°49'43	direct	1968 Feb 28 08:36	17°♎05'44	
	1967 Apr 14 14:38	0°♎		desc. node	1968 Mar 08 12:26	20°♎58'00	
	1967 May 01 23:26	0°♎		morning max el	1968 Mar 13 00:48	24°♎59'04	27°32'26
morning set	1967 May 04 05:07	4°♎28'52			1968 Mar 17 14:45	0°♎	
max. Earth dist.	1967 May 09 21:44	16°♎26'01	1.32540 AU		1968 Apr 07 01:01	0°♎	
asc. node	1967 May 11 07:05	19°♎26'25		morning set	1968 Apr 17 00:22	18°♎26'32	
				max. Earth dist.	1968 Apr 22 00:03	28°♎34'54	1.33294 AU
superior conj	1967 May 11 16:25	20°♎17'10	0°04'08		1968 Apr 22 16:18	0°♎	
minimum elong	1967 May 11 16:13	20°♎16'06	0°04'04				
behind sun begin	1967 May 11 11:13	19°♎48'54		superior conj	1968 Apr 24 22:36	4°♎47'24	-0°23'18
behind sun end	1967 May 11 21:14	20°♎43'19		minimum elong	1968 Apr 24 23:46	4°♎53'35	0°23'03
	1967 May 16 03:27	0°♎		asc. node	1968 Apr 27 04:08	9°♎34'04	
evening rise	1967 May 18 14:54	5°♎18'59		evening rise	1968 May 02 02:27	20°♎06'28	
	1967 May 31 18:02	0°♎			1968 May 06 22:56	0°♎	
evening max el	1967 Jun 12 10:38	15°♎00'15	24°15'01	evening max el	1968 May 24 01:06	25°♎28'55	22°38'47
desc. node	1967 Jun 18 14:40	19°♎45'41			1968 May 29 22:43	0°♎	
retrograde	1967 Jun 26 06:51	21°♎58'58		desc. node	1968 Jun 04 11:40	1°♎54'41	
evening set	1967 Jun 30 22:17	21°♎11'00		retrograde	1968 Jun 06 05:16	2°♎01'33	
min. Earth dist.	1967 Jul 06 21:29	18°♎13'40	0.56589 AU	evening set	1968 Jun 09 09:43	1°♎39'13	
inferior conj	1967 Jul 09 12:03	16°♎35'46	-4°44'21		1968 Jun 13 22:32	30°♎	
minimum elong	1967 Jul 09 07:41	16°♎42'38	4°43'52	min. Earth dist.	1968 Jun 17 09:00	28°♎10'16	0.55322 AU
morning rise	1967 Jul 17 19:47	12°♎34'25		inferior conj	1968 Jun 18 15:48	27°♎26'18	-3°44'40

minimum elong	1968 Jun 18 07:57	27° Π 37'32	3°42'41	minimum elong	1969 May 29 04:12	7° Π 58'31	1°59'39
morning rise	1968 Jun 27 08:28	23° Π 34'30		min. Earth dist.	1969 May 29 21:20	7° Π 34'21	0.54907 AU
direct	1968 Jun 30 06:09	23° Π 15'04		morning rise	1969 Jun 07 07:35	3° Π 49'38	
morning max el	1968 Jul 11 12:29	28° Π 28'42	20°56'35	direct	1969 Jun 10 15:48	3° Π 25'28	
	1968 Jul 13 01:30	0° \mathfrak{D}		morning max el	1969 Jun 23 11:05	9° Π 31'27	22°30'50
asc. node	1968 Jul 24 03:21	16° \mathfrak{D} 03'20			1969 Jul 08 03:58	0° \mathfrak{D}	
morning set	1968 Jul 31 00:26	29° \mathfrak{D} 30'23		asc. node	1969 Jul 11 00:23	5° \mathfrak{D} 22'37	
	1968 Jul 31 06:11	0° Ω		morning set	1969 Jul 15 10:47	14° \mathfrak{D} 22'20	
superior conj	1968 Aug 07 11:25	14° Ω 59'54	1°43'59	superior conj	1969 Jul 22 14:34	29° \mathfrak{D} 35'35	1°35'58
minimum elong	1968 Aug 07 10:26	14° Ω 54'53	1°43'57	minimum elong	1969 Jul 22 12:37	29° \mathfrak{D} 25'13	1°35'49
max. Earth dist.	1968 Aug 11 23:39	24° Ω 05'24	1.35665 AU		1969 Jul 22 19:11	0° Ω	
	1968 Aug 15 00:53	0° \mathfrak{M}		max. Earth dist.	1969 Jul 25 16:57	6° Ω 05'29	1.34199 AU
evening rise	1968 Aug 16 03:06	2° \mathfrak{M} 03'47		evening rise	1969 Jul 30 11:39	15° Ω 43'21	
desc. node	1968 Aug 31 11:00	28° \mathfrak{M} 06'24			1969 Aug 07 04:21	0° \mathfrak{M}	
	1968 Sep 01 16:59	0° \mathfrak{L}		desc. node	1969 Aug 18 08:00	17° \mathfrak{M} 57'09	
evening max el	1968 Sep 20 16:29	24° \mathfrak{L} 02'56	26°25'13		1969 Aug 27 06:50	0° \mathfrak{L}	
	1968 Sep 28 14:40	0° \mathfrak{M}		evening max el	1969 Sep 03 04:38	7° \mathfrak{L} 33'08	27°08'55
retrograde	1968 Oct 03 11:40	1° \mathfrak{M} 15'07		retrograde	1969 Sep 16 12:41	14° \mathfrak{L} 51'35	
	1968 Oct 07 22:46	30° \mathfrak{R} \mathfrak{L}		evening set	1969 Sep 23 10:43	12° \mathfrak{L} 07'47	
evening set	1968 Oct 09 22:33	28° \mathfrak{L} 35'35		min. Earth dist.	1969 Sep 27 07:02	8° \mathfrak{L} 24'53	0.65069 AU
min. Earth dist.	1968 Oct 14 01:31	24° \mathfrak{L} 16'36	0.66280 AU	inferior conj	1969 Sep 29 09:29	6° \mathfrak{L} 03'39	-2°29'05
inferior conj	1968 Oct 15 15:41	22° \mathfrak{L} 20'36	-1°30'42	minimum elong	1969 Sep 29 13:27	5° \mathfrak{L} 52'33	2°27'38
minimum elong	1968 Oct 15 18:05	22° \mathfrak{L} 13'16	1°29'43	morning rise	1969 Oct 05 17:03	0° \mathfrak{L} 30'03	
asc. node	1968 Oct 20 02:34	17° \mathfrak{L} 35'12		asc. node	1969 Oct 06 23:35	0° \mathfrak{L} 02'03	
morning rise	1968 Oct 21 14:09	16° \mathfrak{L} 33'42			1969 Oct 07 02:57	30° \mathfrak{R} \mathfrak{M}	
direct	1968 Oct 24 14:17	15° \mathfrak{L} 42'34		direct	1969 Oct 08 09:53	29° \mathfrak{M} 51'04	
morning max el	1968 Oct 31 07:30	19° \mathfrak{L} 24'48	18°39'01		1969 Oct 09 16:56	0° \mathfrak{L}	
	1968 Nov 08 11:00	0° \mathfrak{M}		morning max el	1969 Oct 14 22:11	3° \mathfrak{L} 21'00	18°07'01
morning set	1968 Nov 21 00:42	19° \mathfrak{M} 41'36			1969 Nov 01 16:53	0° \mathfrak{M}	
desc. node	1968 Nov 27 10:16	29° \mathfrak{M} 50'05		morning set	1969 Nov 02 01:42	0° \mathfrak{M} 36'30	
	1968 Nov 27 12:47	0° \mathfrak{X}		desc. node	1969 Nov 14 07:18	20° \mathfrak{M} 33'57	
superior conj	1968 Dec 07 02:31	15° \mathfrak{X} 03'30	-1°01'47	superior conj	1969 Nov 16 07:47	23° \mathfrak{M} 47'18	-0°13'33
minimum elong	1968 Dec 06 18:57	14° \mathfrak{X} 33'47	1°00'52	minimum elong	1969 Nov 16 06:04	23° \mathfrak{M} 40'30	0°13'19
max. Earth dist.	1968 Dec 07 00:34	14° \mathfrak{X} 55'51	1.45120 AU	behind sun begin	1969 Nov 15 23:50	23° \mathfrak{M} 15'42	
	1968 Dec 16 14:11	0° \mathfrak{Z}		behind sun end	1969 Nov 16 12:19	24° \mathfrak{M} 05'18	
evening rise	1968 Dec 22 21:10	10° \mathfrak{Z} 00'14		max. Earth dist.	1969 Nov 19 19:24	29° \mathfrak{M} 18'15	1.44945 AU
greatest brilliancy	1968 Dec 30 23:15	22° \mathfrak{Z} 54'41	-0.8m		1969 Nov 20 06:00	0° \mathfrak{X}	
	1969 Jan 04 12:18	0° \mathfrak{A}		evening rise	1969 Dec 02 17:45	19° \mathfrak{X} 28'30	
evening max el	1969 Jan 13 15:18	12° \mathfrak{A} 11'37	18°55'20		1969 Dec 09 13:21	0° \mathfrak{Z}	
asc. node	1969 Jan 16 01:52	14° \mathfrak{A} 21'20		greatest brilliancy	1969 Dec 15 20:49	9° \mathfrak{Z} 35'53	-0.7m
retrograde	1969 Jan 20 10:56	16° \mathfrak{A} 02'38		evening max el	1969 Dec 27 21:53	25° \mathfrak{Z} 41'12	19°44'23
evening set	1969 Jan 23 17:07	15° \mathfrak{A} 01'24		asc. node	1970 Jan 02 22:53	29° \mathfrak{Z} 49'31	
inferior conj	1969 Jan 29 08:49	9° \mathfrak{A} 17'10	3°27'14	retrograde	1970 Jan 04 08:10	0° \mathfrak{A} 00'09	
minimum elong	1969 Jan 29 06:48	9° \mathfrak{A} 23'28	3°26'56		1970 Jan 04 04:24	0° \mathfrak{A}	
min. Earth dist.	1969 Jan 31 00:18	7° \mathfrak{A} 14'13	0.65574 AU		1970 Jan 04 11:59	30° \mathfrak{R} \mathfrak{Z}	
morning rise	1969 Feb 03 20:07	3° \mathfrak{A} 06'09		evening set	1970 Jan 07 21:50	28° \mathfrak{Z} 45'36	
direct	1969 Feb 10 09:38	0° \mathfrak{A} 14'50		inferior conj	1970 Jan 13 09:15	22° \mathfrak{Z} 46'54	3°00'40
desc. node	1969 Feb 23 09:28	7° \mathfrak{A} 52'30		minimum elong	1970 Jan 13 06:40	22° \mathfrak{Z} 55'25	3°00'03
morning max el	1969 Feb 23 10:41	7° \mathfrak{A} 55'34	26°43'28	min. Earth dist.	1970 Jan 14 10:25	21° \mathfrak{Z} 23'43	0.66703 AU
	1969 Mar 12 15:19	0° \mathfrak{H}		morning rise	1970 Jan 18 15:17	16° \mathfrak{Z} 33'54	
	1969 Mar 30 09:59	0° \mathfrak{Y}		direct	1970 Jan 24 16:38	13° \mathfrak{Z} 51'58	
morning set	1969 Mar 31 08:45	1° \mathfrak{Y} 47'41		morning max el	1970 Feb 05 19:41	21° \mathfrak{Z} 05'23	25°31'20
max. Earth dist.	1969 Apr 04 15:40	10° \mathfrak{Y} 09'16	1.34495 AU	desc. node	1970 Feb 10 06:31	25° \mathfrak{Z} 58'53	
superior conj	1969 Apr 08 23:00	18° \mathfrak{Y} 55'23	-0°51'16		1970 Feb 13 13:08	0° \mathfrak{A}	
minimum elong	1969 Apr 09 01:36	19° \mathfrak{Y} 08'48	0°50'45		1970 Mar 05 20:10	0° \mathfrak{H}	
asc. node	1969 Apr 14 01:10	29° \mathfrak{Y} 35'05		morning set	1970 Mar 14 01:47	14° \mathfrak{H} 19'15	
	1969 Apr 14 05:54	0° \mathfrak{B}		max. Earth dist.	1970 Mar 17 19:28	21° \mathfrak{H} 15'07	1.36151 AU
evening rise	1969 Apr 16 11:55	4° \mathfrak{B} 42'13			1970 Mar 22 07:59	0° \mathfrak{Y}	
	1969 Apr 30 15:18	0° \mathfrak{I}		superior conj	1970 Mar 23 14:58	2° \mathfrak{Y} 33'51	-1°18'12
evening max el	1969 May 05 22:57	6° \mathfrak{I} 14'24	21°08'49	minimum elong	1970 Mar 23 18:47	2° \mathfrak{Y} 52'52	1°17'36
retrograde	1969 May 17 19:06	12° \mathfrak{I} 00'55		evening rise	1970 Mar 31 17:15	19° \mathfrak{Y} 00'09	
evening set	1969 May 20 00:56	11° \mathfrak{I} 49'13		asc. node	1970 Mar 31 22:12	19° \mathfrak{Y} 25'15	
desc. node	1969 May 22 08:40	11° \mathfrak{I} 14'09			1970 Apr 06 07:40	0° \mathfrak{B}	
inferior conj	1969 May 29 09:50	7° \mathfrak{I} 50'34	-2°01'37	evening max el	1970 Apr 18 08:22	17° \mathfrak{B} 36'29	19°54'11

retrograde	1970 Apr 28 10:51	22°♄29'13		asc. node	1971 Mar 18 19:15	8°♃59'50	
evening set	1970 Apr 30 11:24	22°♄18'22		evening max el	1971 Apr 01 04:57	29°♃38'09	18°58'46
inferior conj	1970 May 09 08:21	18°♄17'56	-0°01'56		1971 Apr 01 14:11	0°♄	
minimum elong	1970 May 09 08:16	18°♄18'04	0°01'54	retrograde	1971 Apr 09 17:11	3°♄45'56	
transit middle	1970 May 09 08:16	18°♄18'04	0°01'54	evening set	1971 Apr 11 21:42	3°♄30'41	
transit begin	1970 May 09 04:19	18°♄24'05			1971 Apr 18 21:52	30°♃♂	
transit end	1970 May 09 12:13	18°♄12'02		inferior conj	1971 Apr 19 23:34	29°♃15'14	1°41'22
desc. node	1970 May 09 05:42	18°♄21'59		minimum elong	1971 Apr 20 03:07	29°♃08'59	1°40'15
min. Earth dist.	1970 May 11 11:01	17°♄00'50	0.55463 AU	min. Earth dist.	1971 Apr 23 02:45	27°♃03'52	0.56864 AU
morning rise	1970 May 18 02:56	13°♄50'13		desc. node	1971 Apr 26 02:45	25°♃13'27	
direct	1970 May 22 06:47	13°♄12'04		morning rise	1971 Apr 28 05:28	24°♃13'21	
morning max el	1970 Jun 05 02:39	20°♄04'09	24°12'51	direct	1971 May 03 10:25	23°♃09'02	
	1970 Jun 13 12:46	0°♂			1971 May 17 03:32	0°♄	
asc. node	1970 Jun 27 21:26	25°♂03'06		morning max el	1971 May 17 17:21	0°♄32'47	25°48'32
morning set	1970 Jun 29 22:32	29°♂18'37			1971 Jun 07 06:45	0°♂	
	1970 Jun 30 06:22	0°♄		morning set	1971 Jun 14 10:06	14°♂14'07	
				asc. node	1971 Jun 14 18:30	14°♂58'34	
superior conj	1970 Jul 06 22:39	14°♄25'21	1°22'38				
minimum elong	1970 Jul 06 20:16	14°♄12'26	1°22'19	superior conj	1971 Jun 21 09:32	29°♂22'20	1°04'54
max. Earth dist.	1970 Jul 08 19:28	18°♄27'03	1.33139 AU	minimum elong	1971 Jun 21 07:14	29°♂09'40	1°04'30
evening rise	1970 Jul 14 07:08	29°♄55'04			1971 Jun 21 16:24	0°♄	
	1970 Jul 14 08:06	0°♂		max. Earth dist.	1971 Jun 22 04:41	1°♄07'17	1.32476 AU
	1970 Jul 31 05:21	0°♂		evening rise	1971 Jun 28 10:18	14°♄28'55	
desc. node	1970 Aug 05 05:00	7°♂14'38			1971 Jul 06 08:53	0°♂	
evening max el	1970 Aug 16 15:35	20°♂43'00	27°26'01	desc. node	1971 Jul 23 02:02	25°♂44'58	
retrograde	1970 Aug 30 07:28	28°♂00'36			1971 Jul 26 17:03	0°♂	
evening set	1970 Sep 06 11:54	25°♂22'51		evening max el	1971 Jul 29 22:45	3°♂18'54	27°11'21
min. Earth dist.	1970 Sep 10 03:18	22°♂12'55	0.63514 AU	retrograde	1971 Aug 12 19:13	10°♂33'19	
inferior conj	1970 Sep 12 18:19	19°♂33'48	-3°25'06	evening set	1971 Aug 19 22:11	8°♂14'13	
minimum elong	1970 Sep 12 23:25	19°♂20'51	3°23'32	min. Earth dist.	1971 Aug 23 12:58	5°♂28'50	0.61656 AU
morning rise	1970 Sep 19 12:09	14°♂16'48		inferior conj	1971 Aug 26 15:01	2°♂43'25	-4°14'07
direct	1970 Sep 22 00:17	13°♂46'23		minimum elong	1971 Aug 26 20:13	2°♂31'46	4°12'59
asc. node	1970 Sep 23 20:38	14°♂03'15			1971 Aug 29 20:42	30°♃♂	
morning max el	1970 Sep 28 14:22	17°♂12'04	17°52'25	morning rise	1971 Sep 02 19:50	27°♂46'36	
	1970 Oct 07 18:04	0°♂		direct	1971 Sep 05 06:02	27°♂21'47	
morning set	1970 Oct 15 04:25	12°♂45'43		asc. node	1971 Sep 10 17:42	29°♂33'09	
	1970 Oct 25 06:16	0°♂			1971 Sep 11 06:45	0°♂	
				morning max el	1971 Sep 12 05:05	0°♂51'19	17°56'13
superior conj	1970 Oct 27 09:40	3°♂33'24	0°32'04	morning set	1971 Sep 28 02:33	25°♂50'28	
minimum elong	1970 Oct 27 12:54	3°♂46'46	0°31'37		1971 Sep 30 09:19	0°♂	
desc. node	1970 Nov 01 04:19	11°♂20'50					
max. Earth dist.	1970 Nov 02 12:41	13°♂30'46	1.44063 AU	superior conj	1971 Oct 08 14:46	14°♂39'44	1°07'22
evening rise	1970 Nov 12 02:26	28°♂32'07		minimum elong	1971 Oct 08 19:20	14°♂59'34	1°06'49
	1970 Nov 13 01:16	0°♂		max. Earth dist.	1971 Oct 16 01:50	27°♂16'24	1.42581 AU
	1970 Dec 03 10:14	0°♂			1971 Oct 17 17:49	0°♂	
evening max el	1970 Dec 10 23:13	9°♂11'47	20°47'33	desc. node	1971 Oct 19 01:20	2°♂07'39	
retrograde	1970 Dec 19 05:59	14°♂05'39		evening rise	1971 Oct 22 15:54	7°♂52'45	
asc. node	1970 Dec 20 19:55	13°♂51'42			1971 Nov 06 06:59	0°♂	
evening set	1970 Dec 23 04:56	12°♂36'09		evening max el	1971 Nov 23 18:53	22°♂42'51	22°01'15
inferior conj	1970 Dec 28 14:01	6°♂25'50	2°24'56	retrograde	1971 Dec 03 02:33	28°♂15'36	
minimum elong	1970 Dec 28 11:27	6°♂34'37	2°24'07	evening set	1971 Dec 07 12:39	26°♂29'45	
min. Earth dist.	1970 Dec 29 02:21	5°♂43'35	0.67429 AU	asc. node	1971 Dec 07 16:58	26°♂20'49	
morning rise	1971 Jan 02 17:47	0°♂12'45		inferior conj	1971 Dec 12 21:02	20°♂11'04	1°41'53
	1971 Jan 02 23:36	30°♃♂		minimum elong	1971 Dec 12 18:56	20°♂18'19	1°41'07
direct	1971 Jan 08 04:36	27°♂48'40		min. Earth dist.	1971 Dec 12 21:51	20°♂08'15	0.67784 AU
	1971 Jan 14 02:16	0°♂		morning rise	1971 Dec 18 01:06	13°♂59'36	
morning max el	1971 Jan 19 04:01	4°♂21'22	24°06'11	direct	1971 Dec 22 20:47	11°♂57'43	
desc. node	1971 Jan 28 03:34	14°♂56'08		morning max el	1972 Jan 01 14:17	17°♂42'54	22°37'48
	1971 Feb 07 20:51	0°♂			1972 Jan 11 18:18	0°♂	
morning set	1971 Feb 23 21:41	25°♂45'22		desc. node	1972 Jan 15 00:35	4°♂29'18	
	1971 Feb 26 07:57	0°♂			1972 Jan 31 23:46	0°♂	
max. Earth dist.	1971 Feb 27 15:37	2°♂20'50	1.38165 AU	morning set	1972 Feb 04 14:17	5°♂50'11	
				max. Earth dist.	1972 Feb 09 11:47	14°♂01'17	1.40317 AU
superior conj	1971 Mar 06 19:03	15°♂33'43	-1°41'48				
minimum elong	1971 Mar 06 23:20	15°♂54'09	1°41'21	superior conj	1972 Feb 17 06:38	27°♂42'21	-1°58'51
	1971 Mar 14 04:45	0°♃		minimum elong	1972 Feb 17 09:48	27°♂56'44	1°58'41
evening rise	1971 Mar 15 16:00	2°♃53'35			1972 Feb 18 12:53	0°♂	

evening rise	1972 Feb 27 05:00	16° Υ 13'38			1973 Feb 09 19:30	0° Υ	
asc. node	1972 Mar 04 16:18	28° Υ 12'14		asc. node	1973 Feb 19 13:21	16° Υ 55'28	
	1972 Mar 05 16:59	0° Υ		evening max el	1973 Feb 25 20:17	25° Υ 10'37	18°08'07
evening max el	1972 Mar 14 09:58	12° Υ 12'10	18°23'28	retrograde	1973 Mar 04 12:58	28° Υ 35'41	
retrograde	1972 Mar 21 18:38	15° Υ 50'43		evening set	1973 Mar 07 04:51	28° Υ 03'31	
evening set	1972 Mar 24 05:01	15° Υ 27'56		inferior conj	1973 Mar 13 20:16	23° Υ 07'20	3°30'37
inferior conj	1972 Mar 31 12:00	10° Υ 52'25	2°52'07	minimum elong	1973 Mar 13 22:23	23° Υ 02'18	3°30'22
minimum elong	1972 Mar 31 15:46	10° Υ 44'37	2°51'17	min. Earth dist.	1973 Mar 17 01:08	20° Υ 05'13	0.60957 AU
min. Earth dist.	1972 Apr 03 22:33	8° Υ 03'33	0.58811 AU	morning rise	1973 Mar 20 14:04	17° Υ 16'08	
morning rise	1972 Apr 07 23:48	5° Υ 20'50		direct	1973 Mar 27 08:19	15° Υ 00'48	
desc. node	1972 Apr 11 23:48	3° Υ 53'14		desc. node	1973 Mar 29 20:50	15° Υ 18'29	
direct	1972 Apr 14 03:29	3° Υ 40'58		morning max el	1973 Apr 10 13:54	22° Υ 54'26	27°43'10
morning max el	1972 Apr 28 12:29	11° Υ 24'06	27°02'27		1973 Apr 16 21:17	0° Υ	
	1972 May 12 23:45	0° Υ			1973 May 06 02:55	0° Υ	
morning set	1972 May 28 19:44	29° Υ 02'09		morning set	1973 May 13 01:37	13° Υ 36'38	
	1972 May 29 06:46	0° Υ		asc. node	1973 May 18 12:37	25° Υ 11'51	
asc. node	1972 May 31 15:34	5° Υ 02'56		max. Earth dist.	1973 May 19 04:13	26° Υ 36'40	1.32295 AU
superior conj	1972 Jun 04 21:21	14° Υ 19'18	0°43'31	superior conj	1973 May 20 08:24	29° Υ 10'43	0°19'11
minimum elong	1972 Jun 04 19:35	14° Υ 09'30	0°43'09	minimum elong	1973 May 20 07:32	29° Υ 05'58	0°18'59
max. Earth dist.	1972 Jun 04 16:54	13° Υ 54'44	1.32193 AU		1973 May 20 17:24	0° Υ	
evening rise	1972 Jun 11 18:26	29° Υ 15'18		evening rise	1973 May 27 05:22	14° Υ 07'14	
	1972 Jun 12 02:56	0° Υ			1973 Jun 04 04:42	0° Υ	
	1972 Jun 28 16:52	0° Υ		evening max el	1973 Jun 22 17:05	26° Υ 14'00	25°07'28
desc. node	1972 Jul 08 23:04	13° Υ 08'08		desc. node	1973 Jun 25 20:06	28° Υ 56'49	
evening max el	1972 Jul 10 23:28	15° Υ 09'27	26°23'40		1973 Jun 27 06:42	0° Υ	
retrograde	1972 Jul 24 23:02	22° Υ 21'22		retrograde	1973 Jul 06 17:00	3° Υ 20'47	
evening set	1972 Jul 31 12:54	20° Υ 33'36		evening set	1973 Jul 12 04:11	2° Υ 11'59	
min. Earth dist.	1972 Aug 04 12:31	17° Υ 57'44	0.59603 AU		1973 Jul 16 08:03	30° Υ	
inferior conj	1972 Aug 07 20:03	15° Υ 22'57	-4°48'37	min. Earth dist.	1973 Jul 17 04:46	29° Υ 26'49	0.57593 AU
minimum elong	1972 Aug 07 23:19	15° Υ 16'33	4°48'16	inferior conj	1973 Jul 20 06:05	27° Υ 22'52	-4°57'01
morning rise	1972 Aug 15 11:49	10° Υ 48'51		minimum elong	1973 Jul 20 04:54	27° Υ 24'54	4°57'00
direct	1972 Aug 17 22:38	10° Υ 27'32		morning rise	1973 Jul 28 08:13	23° Υ 10'58	
morning max el	1972 Aug 25 15:14	14° Υ 10'33	18°19'42	direct	1973 Jul 30 21:47	22° Υ 51'35	
asc. node	1972 Aug 27 14:46	16° Υ 17'36		morning max el	1973 Aug 08 17:36	26° Υ 59'58	19°04'00
	1972 Sep 05 11:36	0° Υ			1973 Aug 11 12:21	0° Υ	
morning set	1972 Sep 10 14:40	9° Υ 35'30		asc. node	1973 Aug 14 11:49	4° Υ 01'10	
				morning set	1973 Aug 25 12:31	23° Υ 48'58	
superior conj	1972 Sep 19 20:15	26° Υ 58'23	1°30'32		1973 Aug 28 15:22	0° Υ	
minimum elong	1972 Sep 19 23:44	27° Υ 14'21	1°30'14				
	1972 Sep 21 12:11	0° Υ		superior conj	1973 Sep 02 20:24	10° Υ 12'31	1°42'42
max. Earth dist.	1972 Sep 27 09:24	10° Υ 21'08	1.40687 AU	minimum elong	1973 Sep 02 22:01	10° Υ 20'16	1°42'38
evening rise	1972 Oct 02 00:23	18° Υ 06'57		max. Earth dist.	1973 Sep 09 13:02	22° Υ 42'07	1.38634 AU
desc. node	1972 Oct 04 22:22	22° Υ 51'15		evening rise	1973 Sep 13 09:00	29° Υ 28'33	
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	1972 Oct 30 19:27	0° Υ		desc. node	1973 Sep 21 19:23	13° Υ 27'21	
evening max el	1972 Nov 05 09:53	6° Υ 16'18	23°20'39		1973 Oct 02 20:12	0° Υ	
retrograde	1972 Nov 15 20:27	12° Υ 27'14		evening max el	1973 Oct 18 22:20	19° Υ 53'27	24°39'36
evening set	1972 Nov 20 19:19	10° Υ 24'24		retrograde	1973 Oct 30 10:29	26° Υ 36'06	
asc. node	1972 Nov 23 14:01	7° Υ 28'40		evening set	1973 Nov 04 23:18	24° Υ 16'53	
inferior conj	1972 Nov 26 04:28	4° Υ 01'11	0°53'01	min. Earth dist.	1973 Nov 09 14:09	19° Υ 01'13	0.67471 AU
minimum elong	1972 Nov 26 03:15	4° Υ 05'21	0°52'31	inferior conj	1973 Nov 10 10:32	17° Υ 53'23	-0°00'27
min. Earth dist.	1972 Nov 25 18:35	4° Υ 35'07	0.67792 AU	minimum elong	1973 Nov 10 10:32	17° Υ 53'21	0°00'26
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morning rise	1972 Dec 01 11:08	27° Υ 53'14		transit begin	1973 Nov 10 07:47	18° Υ 02'30	
direct	1972 Dec 05 16:22	26° Υ 14'12		transit end	1973 Nov 10 13:17	17° Υ 44'12	
	1972 Dec 12 23:20	0° Υ		asc. node	1973 Nov 10 11:03	17° Υ 51'39	
morning max el	1972 Dec 14 05:59	1° Υ 13'39	21°14'38	morning rise	1973 Nov 15 21:52	11° Υ 51'16	
desc. node	1972 Dec 31 21:37	24° Υ 28'39		direct	1973 Nov 19 14:14	10° Υ 33'19	
	1973 Jan 04 14:41	0° Υ		morning max el	1973 Nov 27 05:09	14° Υ 54'40	20°02'30
morning set	1973 Jan 14 02:27	14° Υ 35'42			1973 Dec 08 21:29	0° Υ	
max. Earth dist.	1973 Jan 21 13:36	26° Υ 34'40	1.42321 AU	desc. node	1973 Dec 18 18:37	14° Υ 46'28	
	1973 Jan 23 15:23	0° Υ		morning set	1973 Dec 23 22:36	22° Υ 42'14	
					1973 Dec 28 15:14	0° Υ	
superior conj	1973 Jan 28 20:31	8° Υ 47'59	-2°04'55	max. Earth dist.	1974 Jan 03 22:43	9° Υ 58'21	1.43913 AU
minimum elong	1973 Jan 28 20:08	8° Υ 46'19	2°04'55				
evening rise	1973 Feb 09 04:30	28° Υ 52'09		superior conj	1974 Jan 09 08:22	18° Υ 41'41	-1°54'59

































































































































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	1974 Jan 16 03:56	0° 					
evening rise	1974 Jan 22 10:04	10°  39'48		superior conj	1974 Dec 19 20:02	27°  32'37	-1°26'00
	1974 Feb 02 22:42	0° 		minimum elong	1974 Dec 19 11:12	26°  57'40	1°25'06
asc. node	1974 Feb 06 10:22	4°  59'56			1974 Dec 21 09:16	0° 	
evening max el	1974 Feb 09 08:46	8°  24'42	18°12'07	evening rise	1975 Jan 03 17:50	21°  31'16	
retrograde	1974 Feb 15 19:45	11°  50'20			1975 Jan 08 21:58	0° 	
evening set	1974 Feb 18 16:52	11°  07'35		evening max el	1975 Jan 23 20:43	21°  48'06	18°34'33
inferior conj	1974 Feb 24 20:30	5°  51'26	3°43'29	asc. node	1975 Jan 24 07:23	22°  14'34	
minimum elong	1974 Feb 24 20:38	5°  51'06	3°43'28	retrograde	1975 Jan 30 10:48	25°  26'28	
min. Earth dist.	1974 Feb 27 12:21	2°  59'57	0.63000 AU	evening set	1975 Feb 02 13:29	24°  32'09	
morning rise	1974 Mar 02 23:23	29°  49'07		inferior conj	1975 Feb 08 08:43	18°  57'32	3°37'20
	1974 Mar 02 17:49	30°  49'07		minimum elong	1975 Feb 08 07:18	19°  01'46	3°37'12
direct	1974 Mar 09 22:16	27°  08'25		min. Earth dist.	1975 Feb 10 09:01	16°  34'04	0.64748 AU
desc. node	1974 Mar 16 17:51	29°  18'18		morning rise	1975 Feb 14 00:38	12°  49'00	
	1974 Mar 17 20:11	0° 		direct	1975 Feb 20 19:27	9°  57'38	
morning max el	1974 Mar 23 20:23	5°  04'22	27°46'37	desc. node	1975 Mar 03 14:52	15°  18'38	
	1974 Apr 11 15:20	0° 		morning max el	1975 Mar 06 05:39	17°  46'33	27°15'02
morning set	1974 Apr 27 01:30	27°  05'08			1975 Mar 16 11:50	0° 	
	1974 Apr 28 03:10	0° 			1975 Apr 04 12:28	0° 	
max. Earth dist.	1974 May 02 10:46	9°  00'12	1.32799 AU	morning set	1975 Apr 10 16:33	11°  05'32	59
				max. Earth dist.	1975 Apr 15 08:45	20°  05'58	1.33744 AU
superior conj	1974 May 04 16:55	13°  50'39	-0°07'22				
minimum elong	1974 May 04 17:16	13°  52'34	0°07'17	superior conj	1975 Apr 18 20:55	28°  05'12	-0°35'10
behind sun begin	1974 May 04 12:35	13°  27'15		minimum elong	1975 Apr 18 22:41	28°  05'21	23
behind sun end	1974 May 04 21:58	14°  17'54			1975 Apr 19 17:20	0° 	
asc. node	1974 May 05 09:40	15°  21'12		asc. node	1975 Apr 22 06:42	5°  26'19	
evening rise	1974 May 11 17:13	28°  05'15		evening rise	1975 Apr 26 04:06	13°  04'19	
	1974 May 12 04:55	0° 			1975 May 04 11:55	0° 	
	1974 May 29 08:03	0° 		evening max el	1975 May 16 23:58	17°  21'30	21°59'13
evening max el	1974 Jun 04 07:01	6°  48'46	23°34'19	retrograde	1975 May 29 16:00	23°  35'52	
desc. node	1974 Jun 12 17:07	12°  36'40		desc. node	1975 May 30 14:08	23°  35'57	
retrograde	1974 Jun 17 22:38	13°  38'45		evening set	1975 Jun 01 08:53	23°  36'19	
evening set	1974 Jun 21 22:17	13°  03'54		min. Earth dist.	1975 Jun 10 04:52	19°  33'33	0.55030 AU
min. Earth dist.	1974 Jun 28 17:20	9°  54'27	0.55959 AU	inferior conj	1975 Jun 10 18:14	19°  33'14	-3°05'14
inferior conj	1974 Jun 30 20:06	8°  38'33	-4°25'10	minimum elong	1975 Jun 10 10:35	19°  33'25	3°02'56
minimum elong	1974 Jun 30 13:43	8°  48'08	4°24'03	morning rise	1975 Jun 19 13:45	15°  32'42	
morning rise	1974 Jul 09 07:46	4°  42'40		direct	1975 Jun 22 15:18	15°  00'50	
direct	1974 Jul 12 01:56	4°  23'44		morning max el	1975 Jul 04 13:52	20°  36'19	21°34'56
morning max el	1974 Jul 22 09:32	9°  10'35	20°09'35		1975 Jul 12 08:56	0° 	
asc. node	1974 Aug 01 08:52	22°  30'33		asc. node	1975 Jul 19 05:54	11°  34'04	
	1974 Aug 05 11:42	0° 		morning set	1975 Jul 25 01:52	23°  09'55	
morning set	1974 Aug 09 17:04	8°  22'56			1975 Jul 28 08:05	0° 	
superior conj	1974 Aug 17 10:07	24°  07'39	1°45'42	superior conj	1975 Aug 01 09:17	8°  30'59	1°41'19
minimum elong	1974 Aug 17 09:57	24°  06'50	1°45'42	minimum elong	1975 Aug 01 07:49	8°  23'23	1°41'13
	1974 Aug 20 09:04	0° 		max. Earth dist.	1975 Aug 05 06:50	16°  31'05	1.35002 AU
max. Earth dist.	1974 Aug 22 18:24	4°  37'23	1.36678 AU	evening rise	1975 Aug 09 16:17	25°  09'00	
evening rise	1974 Aug 26 15:50	11°  53'31			1975 Aug 12 06:12	0° 	
	1974 Sep 06 05:48	0° 		desc. node	1975 Aug 26 13:28	23°  56'19	
desc. node	1974 Sep 08 16:26	3°  51'20			1975 Aug 30 17:20	0° 	
	1974 Sep 28 00:20	0° 		evening max el	1975 Sep 13 22:44	17°  10'34	26°46'34
evening max el	1974 Oct 01 10:25	3°  33'56	25°50'46	retrograde	1975 Sep 26 23:46	24°  25'29	
retrograde	1974 Oct 13 19:48	10°  37'47		evening set	1975 Oct 03 15:53	21°  43'16	
evening set	1974 Oct 19 22:51	8°  04'36		min. Earth dist.	1975 Oct 07 16:01	17°  39'43	0.65818 AU
min. Earth dist.	1974 Oct 24 06:07	3°  24'23	0.66821 AU	inferior conj	1975 Oct 09 11:15	15°  32'38	-1°55'32
inferior conj	1974 Oct 25 13:28	1°  45'19	-0°57'08	minimum elong	1975 Oct 09 14:20	15°  23'32	1°54'18
minimum elong	1974 Oct 25 14:57	1°  40'36	0°56'31	asc. node	1975 Oct 15 05:05	10°  02'28	
	1974 Oct 26 23:21	30°  49'07		morning rise	1975 Oct 15 13:24	9°  50'54	
asc. node	1974 Oct 28 08:03	28°  26'04		direct	1975 Oct 18 10:15	9°  05'13	
morning rise	1974 Oct 31 07:21	25°  51'48		morning max el	1975 Oct 25 00:22	12°  40'48	18°23'17
direct	1974 Nov 03 12:51	24°  51'48			1975 Nov 06 08:58	0° 	
morning max el	1974 Nov 10 11:51	28°  45'13	19°04'49	morning set	1975 Nov 13 12:14	11°  30'22	
	1974 Nov 11 16:05	0° 		desc. node	1975 Nov 22 12:43	25°  58'09	
	1974 Dec 02 06:17	0°			1975 Nov 25 01:44	0°	
morning set	1974 Dec 03 04:02	1° 24'54					
desc. node	1974 Dec 05 15:39	5° 24'54		superior conj	1975 Nov 28 21:20	6° 01'13	-0°41'43

minimum elong	1975 Nov 28 15:58	5°♄40'04	0°41'00		1976 Oct 29 04:55	0°♄	
max. Earth dist.	1975 Nov 30 09:36	8°♄23'45	1.45144 AU				
	1975 Dec 14 04:09	0°♄		superior conj	1976 Nov 07 09:44	15°♄06'54	0°06'46
evening rise	1975 Dec 15 02:23	1°♄27'20		minimum elong	1976 Nov 07 10:31	15°♄10'07	0°06'39
greatest brilliancy	1975 Dec 25 13:17	17°♄49'39	-0.8m	behind sun begin	1976 Nov 07 01:01	14°♄31'45	
	1976 Jan 02 20:22	0°♄		behind sun end	1976 Nov 07 20:02	15°♄48'25	
evening max el	1976 Jan 07 05:47	5°♄16'20	19°14'18	desc. node	1976 Nov 08 09:45	16°♄43'31	
asc. node	1976 Jan 11 04:23	8°♄26'09		max. Earth dist.	1976 Nov 12 04:21	22°♄44'41	1.44651 AU
retrograde	1976 Jan 14 06:42	9°♄18'01			1976 Nov 16 19:02	0°♄	
evening set	1976 Jan 17 15:58	8°♄11'06		evening rise	1976 Nov 23 16:12	10°♄40'34	
inferior conj	1976 Jan 23 05:33	2°♄20'12	3°17'12		1976 Dec 06 09:25	0°♄	
minimum elong	1976 Jan 23 03:13	2°♄27'39	3°16'46	greatest brilliancy	1976 Dec 08 00:12	2°♄23'29	-0.6m
min. Earth dist.	1976 Jan 24 14:39	0°♄34'07	0.66106 AU	evening max el	1976 Dec 20 10:09	18°♄45'47	20°09'40
	1976 Jan 25 01:30	30°♄		retrograde	1976 Dec 28 04:34	23°♄19'17	
morning rise	1976 Jan 28 14:14	26°♄08'16		asc. node	1976 Dec 28 01:26	23°♄19'11	
direct	1976 Feb 03 22:57	23°♄19'58		evening set	1976 Dec 31 21:57	21°♄58'29	
	1976 Feb 15 19:03	0°♄		inferior conj	1977 Jan 06 08:07	15°♄54'10	2°46'29
morning max el	1976 Feb 16 15:21	0°♄50'11	26°15'08	minimum elong	1977 Jan 06 05:29	16°♄03'02	2°45'46
desc. node	1976 Feb 18 11:54	2°♄46'45		min. Earth dist.	1977 Jan 07 03:35	14°♄48'39	0.67056 AU
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morning set	1976 Mar 23 19:01	24°♄34'30		direct	1977 Jan 17 08:01	7°♄05'55	
	1976 Mar 26 15:36	0°♄		morning max el	1977 Jan 29 00:08	14°♄03'45	24°56'08
max. Earth dist.	1976 Mar 27 19:33	2°♄15'39	1.35150 AU	desc. node	1977 Feb 04 08:57	21°♄16'40	
					1977 Feb 10 23:55	0°♄	
superior conj	1976 Apr 01 18:06	12°♄08'17	-1°02'55		1977 Mar 02 08:09	0°♄	
minimum elong	1976 Apr 01 21:15	12°♄24'25	1°02'21	morning set	1977 Mar 06 03:48	6°♄39'55	
asc. node	1976 Apr 08 03:44	25°♄23'14		max. Earth dist.	1977 Mar 09 19:33	13°♄17'41	1.36975 AU
evening rise	1976 Apr 09 12:06	28°♄10'25					
	1976 Apr 10 09:29	0°♄		superior conj	1977 Mar 16 05:25	25°♄30'43	-1°28'47
evening max el	1976 Apr 28 02:23	28°♄20'15	20°34'50	minimum elong	1977 Mar 16 09:34	25°♄51'02	1°28'14
	1976 Apr 29 23:11	0°♄			1977 Mar 18 11:56	0°♄	
retrograde	1976 May 09 05:04	3°♄44'06		evening rise	1977 Mar 24 14:58	12°♄18'19	
evening set	1976 May 11 07:03	3°♄33'30		asc. node	1977 Mar 26 00:47	15°♄06'57	
desc. node	1976 May 16 11:07	1°♄47'49			1977 Apr 03 02:46	0°♄	
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inferior conj	1976 May 20 12:15	29°♄35'42	-1°10'44	retrograde	1977 Apr 20 02:09	14°♄30'43	
minimum elong	1976 May 20 08:54	29°♄40'31	1°09'31	evening set	1977 Apr 22 03:33	14°♄18'35	
min. Earth dist.	1976 May 21 17:22	28°♄53'42	0.55027 AU	inferior conj	1977 Apr 30 16:44	10°♄12'46	0°45'20
morning rise	1976 May 29 09:56	25°♄25'33		minimum elong	1977 Apr 30 18:37	10°♄09'43	0°44'41
direct	1976 Jun 02 01:20	24°♄56'59		desc. node	1977 May 03 08:09	8°♄30'41	
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morning max el	1976 Jun 15 08:48	1°♄23'15	23°14'06	morning rise	1977 May 09 06:52	5°♄30'14	
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morning set	1976 Jul 08 13:02	8°♄04'15			1977 Jun 10 21:07	0°♄	
				asc. node	1977 Jun 22 00:04	20°♄50'12	
superior conj	1976 Jul 15 14:50	23°♄13'18	1°30'55	morning set	1977 Jun 23 00:55	23°♄00'29	
minimum elong	1976 Jul 15 12:38	23°♄01'30	1°30'40		1977 Jun 26 07:07	0°♄	
max. Earth dist.	1976 Jul 18 04:21	28°♄40'04	1.33700 AU				
	1976 Jul 18 19:35	0°♄		superior conj	1977 Jun 30 00:22	8°♄06'43	1°15'36
evening rise	1976 Jul 23 05:55	9°♄02'58		minimum elong	1977 Jun 29 21:57	7°♄53'36	1°15'15
	1976 Aug 03 16:41	0°♄		max. Earth dist.	1977 Jul 01 09:55	11°♄09'06	1.32798 AU
desc. node	1976 Aug 12 10:29	13°♄34'08		evening rise	1977 Jul 07 05:00	23°♄24'40	
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evening max el	1976 Aug 26 10:31	0°♄32'58	27°19'39		1977 Jul 28 10:15	0°♄	
retrograde	1976 Sep 08 22:04	7°♄51'24		desc. node	1977 Jul 30 07:29	2°♄33'36	
evening set	1976 Sep 15 23:48	5°♄08'28		evening max el	1977 Aug 08 20:00	13°♄29'23	27°23'52
min. Earth dist.	1976 Sep 19 17:38	1°♄40'34	0.64456 AU	retrograde	1977 Aug 22 14:19	20°♄46'38	
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inferior conj	1976 Sep 22 01:34	29°♄10'29	-2°53'22	min. Earth dist.	1977 Sep 02 09:28	15°♄17'00	0.62751 AU
minimum elong	1976 Sep 22 06:06	28°♄58'17	2°51'48	inferior conj	1977 Sep 05 05:41	12°♄33'03	-3°47'08
morning rise	1976 Sep 28 13:25	23°♄43'47		minimum elong	1977 Sep 05 11:01	12°♄20'12	3°45'41
direct	1976 Oct 01 03:59	23°♄08'49		morning rise	1977 Sep 12 04:12	7°♄24'33	
asc. node	1976 Oct 01 02:09	23°♄08'51		direct	1977 Sep 14 15:04	6°♄56'58	
morning max el	1976 Oct 07 16:06	26°♄35'37	17°58'38	asc. node	1977 Sep 17 23:15	7°♄49'24	
	1976 Oct 10 14:47	0°♄		morning max el	1977 Sep 21 08:09	10°♄23'21	17°51'44
morning set	1976 Oct 25 00:52	22°♄58'48			1977 Oct 04 09:16	0°♄	



















































































































































morning set	1977 Oct 07 12:41	5°♄34'05		morning set	1978 Sep 09 19:23	0°♄	
					1978 Sep 20 17:24	18°♄57'38	
superior conj	1977 Oct 18 23:16	25°♄27'59	0°48'29		1978 Sep 26 16:40	0°♄	
minimum elong	1977 Oct 19 03:29	25°♄45'44	0°47'55				
	1977 Oct 21 16:23	0°♄		superior conj	1978 Sep 30 15:22	7°♄06'36	1°18'37
max. Earth dist.	1977 Oct 25 19:47	6°♄46'38	1.43493 AU	minimum elong	1978 Sep 30 19:40	7°♄25'42	1°18'10
desc. node	1977 Oct 26 06:47	7°♄31'05		max. Earth dist.	1978 Oct 08 06:15	20°♄14'45	1.41813 AU
evening rise	1977 Nov 03 00:49	19°♄46'12		desc. node	1978 Oct 13 03:49	28°♄17'02	
	1977 Nov 09 17:20	0°♄		evening rise	1978 Oct 13 21:11	29°♄26'44	
	1977 Dec 01 06:43	0°♄			1978 Oct 14 05:30	0°♄	
evening max el	1977 Dec 03 08:59	2°♄16'21	21°17'49		1978 Nov 03 07:48	0°♄	
retrograde	1977 Dec 12 02:11	7°♄27'01		evening max el	1978 Nov 16 02:35	15°♄48'37	22°34'40
asc. node	1977 Dec 14 22:29	6°♄42'05		retrograde	1978 Nov 25 21:42	21°♄37'49	
evening set	1977 Dec 16 05:32	5°♄50'53		evening set	1978 Nov 30 12:59	19°♄45'01	
	1977 Dec 21 07:18	30°♄		asc. node	1978 Dec 01 19:32	18°♄33'52	
inferior conj	1977 Dec 21 14:08	29°♄36'27	2°07'29	inferior conj	1978 Dec 05 21:34	13°♄24'06	1°21'50
minimum elong	1977 Dec 21 11:43	29°♄44'48	2°06'39	minimum elong	1978 Dec 05 19:48	13°♄30'13	1°21'08
min. Earth dist.	1977 Dec 21 21:28	29°♄11'06	0.67624 AU	min. Earth dist.	1978 Dec 05 17:51	13°♄36'56	0.67835 AU
morning rise	1977 Dec 26 17:42	23°♄23'32		morning rise	1978 Dec 11 02:27	7°♄13'43	
direct	1977 Dec 31 22:02	21°♄08'31		direct	1978 Dec 15 15:56	5°♄21'22	
morning max el	1978 Jan 11 08:55	27°♄22'01	23°28'16	morning max el	1978 Dec 24 20:56	10°♄46'17	22°01'13
	1978 Jan 13 20:07	0°♄			1979 Jan 08 22:33	0°♄	
desc. node	1978 Jan 22 06:00	10°♄30'41		desc. node	1979 Jan 09 03:02	0°♄16'04	
	1978 Feb 04 15:54	0°♄		morning set	1979 Jan 26 16:45	27°♄01'39	
morning set	1978 Feb 15 12:43	17°♄32'48			1979 Jan 28 12:49	0°♄	
max. Earth dist.	1978 Feb 19 14:13	24°♄31'53	1.39081 AU	max. Earth dist.	1979 Feb 01 11:58	6°♄32'40	1.41210 AU
	1978 Feb 22 16:11	0°♄					
				superior conj	1979 Feb 09 06:06	19°♄53'32	-2°03'05
superior conj	1978 Feb 27 03:03	8°♄09'47	-1°50'05	minimum elong	1979 Feb 09 08:05	20°♄02'20	2°03'01
minimum elong	1978 Feb 27 07:07	8°♄28'46	1°49'45		1979 Feb 14 20:38	0°♄	
evening rise	1978 Mar 08 09:57	25°♄57'58		evening rise	1979 Feb 19 17:41	9°♄01'15	
	1978 Mar 10 12:10	0°♄		asc. node	1979 Feb 27 18:51	23°♄33'25	
asc. node	1978 Mar 12 21:49	4°♄32'28			1979 Mar 03 21:32	0°♄	
evening max el	1978 Mar 24 17:13	22°♄14'36	18°41'18	evening max el	1979 Mar 08 00:59	5°♄00'47	18°14'35
retrograde	1978 Apr 01 16:17	26°♄07'39		retrograde	1979 Mar 15 01:15	8°♄31'18	
evening set	1978 Apr 03 23:14	25°♄49'34		evening set	1979 Mar 17 14:13	8°♄04'35	
inferior conj	1978 Apr 11 16:49	21°♄26'16	2°15'37	inferior conj	1979 Mar 24 14:05	3°♄20'17	3°12'03
minimum elong	1978 Apr 11 20:49	21°♄18'44	2°14'30	minimum elong	1979 Mar 24 17:17	3°♄13'16	3°11'28
min. Earth dist.	1978 Apr 15 01:19	18°♄55'55	0.57647 AU	min. Earth dist.	1979 Mar 27 23:34	0°♄22'45	0.59725 AU
morning rise	1978 Apr 19 15:16	16°♄10'28			1979 Mar 28 10:39	30°♄	
desc. node	1978 Apr 20 05:11	15°♄55'16		morning rise	1979 Mar 31 18:02	27°♄39'31	
direct	1978 Apr 25 06:48	14°♄51'18		direct	1979 Apr 07 05:21	25°♄43'45	
morning max el	1978 May 09 15:26	22°♄25'24	26°23'29	desc. node	1979 Apr 07 02:13	25°♄43'48	
	1978 May 16 08:20	0°♄			1979 Apr 17 12:48	0°♄	
	1978 Jun 03 15:26	0°♄		morning max el	1979 Apr 21 12:57	3°♄31'40	27°24'13
morning set	1978 Jun 07 11:48	7°♄52'47			1979 May 10 22:03	0°♄	
asc. node	1978 Jun 08 21:07	10°♄49'31		morning set	1979 May 22 20:03	22°♄35'47	
					1979 May 26 07:44	0°♄	
				asc. node	1979 May 26 18:09	0°♄56'22	
superior conj	1978 Jun 14 11:50	23°♄04'03	0°56'14				
minimum elong	1978 Jun 14 09:42	22°♄52'18	0°55'50	superior conj	1979 May 29 23:31	7°♄59'30	0°33'31
max. Earth dist.	1978 Jun 14 20:36	23°♄52'15	1.32300 AU	minimum elong	1979 May 29 22:05	7°♄51'36	0°33'13
	1978 Jun 17 15:49	0°♄		max. Earth dist.	1979 May 29 08:56	6°♄39'20	1.32190 AU
evening rise	1978 Jun 21 10:31	8°♄04'22		evening rise	1979 Jun 05 20:07	22°♄54'21	
	1978 Jul 02 22:28	0°♄			1979 Jun 09 06:32	0°♄	
desc. node	1978 Jul 17 04:31	20°♄38'04			1979 Jun 27 09:51	0°♄	
evening max el	1978 Jul 22 00:42	25°♄46'50	26°55'13	evening max el	1979 Jul 03 22:33	7°♄17'48	25°54'19
	1978 Jul 27 06:10	0°♄		desc. node	1979 Jul 04 01:31	7°♄24'52	
retrograde	1978 Aug 04 23:07	3°♄00'38		retrograde	1979 Jul 17 22:42	14°♄27'21	
evening set	1978 Aug 11 21:52	0°♄53'41		evening set	1979 Jul 24 02:47	12°♄56'10	
	1978 Aug 13 07:05	30°♄		min. Earth dist.	1979 Jul 28 10:59	10°♄18'27	0.58726 AU
min. Earth dist.	1978 Aug 15 14:55	28°♄14'16	0.60783 AU	inferior conj	1979 Jul 31 17:27	7°♄54'42	-4°56'14
inferior conj	1978 Aug 18 20:11	25°♄31'00	-4°31'09	minimum elong	1979 Jul 31 19:07	7°♄51'38	4°56'10
minimum elong	1978 Aug 19 00:52	25°♄21'04	4°30'22		1979 Aug 08 13:40	3°♄29'59	
morning rise	1978 Aug 26 05:41	20°♄43'30		morning rise	1979 Aug 11 01:32	3°♄09'32	
direct	1978 Aug 28 15:41	20°♄20'32		direct	1979 Aug 19 04:24	7°♄01'55	18°35'56
asc. node	1978 Sep 04 20:19	23°♄52'35		morning max el	1979 Aug 22 17:22	11°♄03'30	
morning max el	1978 Sep 04 21:19	23°♄54'59	18°03'44	asc. node			

	1979 Sep 02 21:39	0°♍		asc. node	1980 Aug 08 14:23	29°♊07'26	
morning set	1979 Sep 04 10:05	2°♍55'47			1980 Aug 09 03:31	0°♌	
				morning set	1980 Aug 18 11:04	17°♌18'25	
superior conj	1979 Sep 13 05:25	19°♍50'09	1°36'55		1980 Aug 24 18:47	0°♍	
minimum elong	1979 Sep 13 08:08	20°♍02'53	1°36'45				
	1979 Sep 18 18:59	0°♎		superior conj	1980 Aug 26 11:52	3°♍22'58	1°44'59
max. Earth dist.	1979 Sep 20 12:03	3°♎01'11	1.39823 AU	minimum elong	1980 Aug 26 12:41	3°♍26'58	1°44'58
evening rise	1979 Sep 24 15:49	10°♎08'58		max. Earth dist.	1980 Sep 01 15:56	15°♍09'09	1.37774 AU
desc. node	1979 Sep 30 00:51	18°♎57'46		evening rise	1980 Sep 05 10:15	21°♍57'46	
	1979 Oct 07 03:55	0°♏			1980 Sep 10 02:00	0°♎	
evening max el	1979 Oct 29 16:23	29°♏23'58	23°54'42	desc. node	1980 Sep 15 21:53	9°♎29'07	
	1979 Oct 30 07:06	0°♐			1980 Sep 30 01:16	0°♏	
retrograde	1979 Nov 09 13:55	5°♐48'37		evening max el	1980 Oct 11 04:23	13°♏02'28	25°11'16
evening set	1979 Nov 14 18:42	3°♐38'40		retrograde	1980 Oct 23 01:59	19°♏55'24	
	1979 Nov 18 03:09	30°♑♌		evening set	1980 Oct 28 21:02	17°♏29'31	
asc. node	1979 Nov 18 16:34	29°♏16'22		min. Earth dist.	1980 Nov 02 08:29	12°♏29'03	0.67235 AU
min. Earth dist.	1979 Nov 19 14:17	28°♏03'39	0.67704 AU	inferior conj	1980 Nov 03 09:33	11°♏07'21	-0°24'10
inferior conj	1979 Nov 20 04:36	27°♏15'03	0°30'51	minimum elong	1980 Nov 03 10:09	11°♏05'21	0°23'55
minimum elong	1979 Nov 20 03:52	27°♏17'33	0°30'32	asc. node	1980 Nov 04 13:35	9°♏37'00	
morning rise	1979 Nov 25 13:01	21°♏09'26		morning rise	1980 Nov 08 23:28	5°♏08'51	
direct	1979 Nov 29 12:41	19°♏39'33		direct	1980 Nov 12 10:56	3°♏59'04	
morning max el	1979 Dec 07 15:37	24°♏20'59	20°42'19	morning max el	1980 Nov 19 18:15	8°♏07'04	19°36'12
	1979 Dec 12 13:34	0°♑		greatest brilliancy	1980 Dec 03 01:19	25°♏49'46	-0.7m
desc. node	1979 Dec 27 00:04	20°♑24'02			1980 Dec 05 19:45	0°♑	
	1980 Jan 02 08:02	0°♒		desc. node	1980 Dec 12 21:07	10°♑48'27	
morning set	1980 Jan 05 19:32	5°♒22'33		morning set	1980 Dec 14 16:44	13°♑36'52	
max. Earth dist.	1980 Jan 14 17:32	19°♒31'00	1.43070 AU		1980 Dec 25 04:46	0°♓	
				max. Earth dist.	1980 Dec 27 06:11	3°♓15'21	1.44412 AU
superior conj	1980 Jan 21 09:15	0°♓29'07	-2°02'56				
minimum elong	1980 Jan 21 06:38	0°♓18'08	2°02'51	superior conj	1980 Dec 31 10:04	9°♓53'46	-1°45'00
	1980 Jan 21 02:18	0°♓		minimum elong	1980 Dec 31 02:18	9°♓22'36	1°44'24
evening rise	1980 Feb 02 10:05	21°♓19'09			1981 Jan 12 15:48	0°♓	
	1980 Feb 07 08:07	0°♔		evening rise	1981 Jan 14 06:57	2°♓44'28	
asc. node	1980 Feb 14 15:52	12°♔01'13		asc. node	1981 Jan 31 12:53	29°♓46'20	
evening max el	1980 Feb 19 12:34	18°♔06'39	18°07'27		1981 Jan 31 17:35	0°♔	
retrograde	1980 Feb 26 01:33	21°♔30'19		evening max el	1981 Feb 02 01:06	1°♔25'25	18°19'20
evening set	1980 Feb 28 19:44	20°♔53'38		retrograde	1981 Feb 08 12:31	4°♔55'26	
inferior conj	1980 Mar 06 05:39	15°♔48'28	3°38'48	evening set	1981 Feb 11 11:50	4°♔07'56	
minimum elong	1980 Mar 06 06:54	15°♔45'20	3°38'42		1981 Feb 16 08:02	30°♕♌	
min. Earth dist.	1980 Mar 09 05:23	12°♔48'37	0.61855 AU	inferior conj	1981 Feb 17 11:31	28°♕43'29	3°42'51
morning rise	1980 Mar 12 16:39	9°♔51'50		minimum elong	1981 Feb 17 10:55	28°♕45'11	3°42'49
direct	1980 Mar 19 13:59	7°♔24'29		min. Earth dist.	1981 Feb 19 20:45	26°♕02'18	0.63787 AU
desc. node	1980 Mar 23 23:14	8°♔18'11		morning rise	1981 Feb 23 09:14	22°♕37'45	
morning max el	1980 Apr 02 16:48	15°♔19'15	27°49'15	direct	1981 Mar 02 07:06	19°♕50'53	
	1980 Apr 14 15:58	0°♕		desc. node	1981 Mar 10 20:16	23°♕13'54	
	1980 May 02 10:56	0°♖		morning max el	1981 Mar 16 01:07	27°♕45'28	27°37'08
morning set	1980 May 05 23:39	7°♖01'58			1981 Mar 18 04:33	0°♖	
max. Earth dist.	1980 May 11 18:54	19°♖15'47	1.32465 AU		1981 Apr 08 09:11	0°♗	
asc. node	1980 May 12 15:10	21°♖05'38		morning set	1981 Apr 19 20:11	21°♗03'43	
					1981 Apr 24 05:31	0°♘	
superior conj	1980 May 13 09:40	22°♘46'16	0°08'09	max. Earth dist.	1981 Apr 24 22:22	1°♘28'08	1.33151 AU
minimum elong	1980 May 13 09:17	22°♘44'11	0°08'04				
behind sun begin	1980 May 13 04:50	22°♘19'57		superior conj	1981 Apr 27 16:30	7°♘18'46	-0°19'05
behind sun end	1980 May 13 13:44	23°♘08'26		minimum elong	1981 Apr 27 17:26	7°♘23'48	0°18'52
	1980 May 16 17:06	0°♙		asc. node	1981 Apr 29 12:12	11°♘13'23	
evening rise	1980 May 20 07:39	7°♙46'29		evening rise	1981 May 04 19:19	22°♘34'34	
	1980 May 31 22:05	0°♚			1981 May 08 09:42	0°♙	
evening max el	1980 Jun 14 13:48	18°♚05'50	24°28'55	evening max el	1981 May 27 03:48	28°♙34'31	22°53'03
desc. node	1980 Jun 19 22:31	22°♚22'50			1981 May 28 17:04	0°♚	
retrograde	1980 Jun 28 11:12	25°♚07'07		desc. node	1981 Jun 06 19:32	4°♚56'19	
evening set	1980 Jul 03 08:03	24°♚13'57		retrograde	1981 Jun 09 11:36	5°♚12'35	
min. Earth dist.	1980 Jul 09 00:48	21°♚20'14	0.56836 AU	evening set	1981 Jun 12 20:38	4°♚47'32	
inferior conj	1980 Jul 11 18:46	19°♚35'04	-4°49'12	min. Earth dist.	1981 Jun 20 12:33	1°♚23'58	0.55459 AU
minimum elong	1980 Jul 11 15:13	19°♚40'45	4°48'52	inferior conj	1981 Jun 22 00:57	0°♚31'29	-3°56'53
morning rise	1980 Jul 20 01:05	15°♚31'21		minimum elong	1981 Jun 21 17:18	0°♚42'33	3°55'06
direct	1980 Jul 22 16:37	15°♚12'14			1981 Jun 22 22:51	30°♒♌	
morning max el	1980 Aug 01 02:29	19°♚34'52	19°29'25	morning rise	1981 Jun 30 16:23	26°♒39'10	

direct	1981 Jul 03 12:58	26° Π 20'02		morning rise	1982 Jun 10 17:04	7° Π 00'10	
	1981 Jul 12 21:08	0° \mathfrak{G}		direct	1982 Jun 13 23:20	6° Π 37'02	
morning max el	1981 Jul 14 13:31	1° \mathfrak{G} 26'31	20°43'51	morning max el	1982 Jun 26 13:34	12° Π 35'25	22°15'58
asc. node	1981 Jul 26 11:26	17° \mathfrak{G} 52'09			1982 Jul 09 11:26	0° \mathfrak{G}	
	1981 Aug 01 18:30	0° Ω		asc. node	1982 Jul 13 08:30	7° \mathfrak{G} 07'48	
morning set	1981 Aug 02 17:36	1° Ω 58'05		morning set	1982 Jul 18 03:40	16° \mathfrak{G} 49'12	
					1982 Jul 24 08:48	0° Ω	
superior conj	1981 Aug 10 06:01	17° Ω 31'09	1°44'40	superior conj	1982 Jul 25 08:17	2° Ω 04'15	1°37'34
minimum elong	1981 Aug 10 05:14	17° Ω 27'10	1°44'38	minimum elong	1982 Jul 25 06:26	1° Ω 54'32	1°37'25
max. Earth dist.	1981 Aug 14 23:23	26° Ω 58'45	1.35913 AU	max. Earth dist.	1982 Jul 28 15:27	8° Ω 57'08	1.34396 AU
	1981 Aug 16 12:47	0° \mathfrak{M}		evening rise	1982 Aug 02 07:44	18° Ω 19'17	
evening rise	1981 Aug 19 01:04	4° \mathfrak{M} 45'06			1982 Aug 08 14:06	0° \mathfrak{M}	
desc. node	1981 Sep 02 18:53	29° \mathfrak{M} 45'30		desc. node	1982 Aug 20 15:55	19° \mathfrak{M} 40'18	
	1981 Sep 02 22:40	0° \mathfrak{L}			1982 Aug 28 03:22	0° \mathfrak{L}	
evening max el	1981 Sep 23 16:17	26° \mathfrak{L} 41'07	26°16'55	evening max el	1982 Sep 06 04:36	10° \mathfrak{L} 13'37	27°03'56
	1981 Sep 27 11:02	0° \mathfrak{M}		retrograde	1982 Sep 19 11:03	17° \mathfrak{L} 31'17	
retrograde	1981 Oct 06 09:15	3° \mathfrak{M} 51'48		evening set	1982 Sep 26 07:38	14° \mathfrak{L} 47'43	
evening set	1981 Oct 12 18:06	1° \mathfrak{M} 13'44		min. Earth dist.	1982 Sep 30 04:57	10° \mathfrak{L} 59'23	0.65275 AU
	1981 Oct 14 02:09	30° \mathfrak{R} \mathfrak{L}		inferior conj	1982 Oct 02 05:28	8° \mathfrak{L} 41'42	-2°20'21
min. Earth dist.	1981 Oct 16 22:08	26° \mathfrak{L} 49'11	0.66427 AU	minimum elong	1982 Oct 02 09:12	8° \mathfrak{L} 31'05	2°18'55
inferior conj	1981 Oct 18 10:31	24° \mathfrak{L} 57'22	-1°21'53	morning rise	1982 Oct 08 11:34	3° \mathfrak{L} 05'45	
minimum elong	1981 Oct 18 12:41	24° \mathfrak{L} 50'43	1°20'58	asc. node	1982 Oct 09 07:41	2° \mathfrak{L} 44'49	
asc. node	1981 Oct 22 10:37	20° \mathfrak{L} 31'58		direct	1982 Oct 11 05:21	2° \mathfrak{L} 25'09	
morning rise	1981 Oct 24 07:45	19° \mathfrak{L} 08'40		morning max el	1982 Oct 17 17:55	5° \mathfrak{L} 56'20	18°10'38
direct	1981 Oct 27 09:10	18° \mathfrak{L} 15'24			1982 Nov 03 01:10	0° \mathfrak{M}	
morning max el	1981 Nov 03 03:44	22° \mathfrak{L} 00'24	18°45'12	morning set	1982 Nov 05 05:00	3° \mathfrak{M} 33'26	
	1981 Nov 09 13:14	0° \mathfrak{M}		desc. node	1982 Nov 16 15:12	22° \mathfrak{M} 06'41	
morning set	1981 Nov 24 08:20	22° \mathfrak{M} 51'27					
	1981 Nov 28 20:52	0° \mathfrak{X}		superior conj	1982 Nov 19 18:23	27° \mathfrak{M} 05'45	-0°20'56
desc. node	1981 Nov 29 18:09	1° \mathfrak{X} 23'52		minimum elong	1982 Nov 19 15:42	26° \mathfrak{M} 55'09	0°20'33
max. Earth dist.	1981 Dec 09 23:16	17° \mathfrak{X} 26'54	1.45083 AU		1982 Nov 21 14:28	0° \mathfrak{X}	
superior conj	1981 Dec 10 14:54	18° \mathfrak{X} 28'19	-1°08'34	max. Earth dist.	1982 Nov 22 18:13	1° \mathfrak{X} 49'22	1.45022 AU
minimum elong	1981 Dec 10 06:46	17° \mathfrak{X} 56'24	1°07'36	evening rise	1982 Dec 06 04:08	22° \mathfrak{X} 45'48	
	1981 Dec 17 22:21	0° \mathfrak{Z}			1982 Dec 10 20:04	0° \mathfrak{Z}	
evening rise	1981 Dec 26 04:45	13° \mathfrak{Z} 11'31		greatest brilliancy	1982 Dec 18 16:11	12° \mathfrak{Z} 01'27	-0.7m
greatest brilliancy	1982 Jan 02 02:34	24° \mathfrak{Z} 17'55	-0.9m	evening max el	1982 Dec 30 19:23	28° \mathfrak{Z} 20'29	19°36'10
	1982 Jan 05 16:49	0° \mathfrak{A}			1983 Jan 01 13:32	0° \mathfrak{A}	
evening max el	1982 Jan 16 12:04	14° \mathfrak{A} 51'13	18°49'24	asc. node	1983 Jan 05 06:58	2° \mathfrak{A} 16'04	
asc. node	1982 Jan 18 09:55	16° \mathfrak{A} 36'03		retrograde	1983 Jan 07 03:00	2° \mathfrak{A} 34'34	
retrograde	1982 Jan 23 06:03	18° \mathfrak{A} 38'36		evening set	1983 Jan 10 15:30	1° \mathfrak{A} 22'01	
evening set	1982 Jan 26 11:16	17° \mathfrak{A} 39'16			1983 Jan 12 06:55	30° \mathfrak{R} \mathfrak{Z}	
inferior conj	1982 Feb 01 03:49	11° \mathfrak{A} 57'33	3°30'15	inferior conj	1983 Jan 16 03:24	25° \mathfrak{Z} 25'20	3°05'18
minimum elong	1982 Feb 01 01:56	12° \mathfrak{A} 03'21	3°30'00	minimum elong	1983 Jan 16 00:53	25° \mathfrak{Z} 33'38	3°04'44
min. Earth dist.	1982 Feb 02 21:36	9° \mathfrak{A} 48'54	0.65375 AU	min. Earth dist.	1983 Jan 17 06:35	23° \mathfrak{Z} 56'10	0.66562 AU
morning rise	1982 Feb 06 16:12	5° \mathfrak{A} 47'03		morning rise	1983 Jan 21 10:02	19° \mathfrak{Z} 12'39	
direct	1982 Feb 13 07:18	2° \mathfrak{A} 55'11		direct	1983 Jan 27 13:25	16° \mathfrak{Z} 28'43	
desc. node	1982 Feb 25 17:19	9° \mathfrak{A} 55'06		morning max el	1983 Feb 08 20:02	23° \mathfrak{Z} 46'45	25°43'11
morning max el	1982 Feb 26 10:54	10° \mathfrak{A} 38'38	26°52'24	desc. node	1983 Feb 12 14:22	27° \mathfrak{Z} 51'59	
	1982 Mar 13 19:11	0° \mathfrak{H}			1983 Feb 14 09:36	0° \mathfrak{A}	
	1982 Mar 31 20:59	0° \mathfrak{Y}			1983 Mar 07 04:23	0° \mathfrak{H}	
morning set	1982 Apr 03 06:28	4° \mathfrak{Y} 31'07		morning set	1983 Mar 17 02:09	17° \mathfrak{H} 10'57	
max. Earth dist.	1982 Apr 07 15:39	13° \mathfrak{Y} 07'14	1.34284 AU	max. Earth dist.	1983 Mar 20 21:12	24° \mathfrak{H} 16'29	1.35879 AU
					1983 Mar 23 20:09	0° \mathfrak{Y}	
superior conj	1982 Apr 11 17:58	21° \mathfrak{Y} 30'44	-0°47'02	superior conj	1983 Mar 26 11:26	5° \mathfrak{Y} 14'18	-1°14'15
minimum elong	1982 Apr 11 20:20	21° \mathfrak{Y} 43'07	0°46'34	minimum elong	1983 Mar 26 15:05	5° \mathfrak{Y} 32'41	1°13'40
	1982 Apr 15 18:54	0° \mathfrak{B}		evening rise	1983 Apr 03 11:23	21° \mathfrak{Y} 33'47	
asc. node	1982 Apr 16 09:15	1° \mathfrak{B} 15'43		asc. node	1983 Apr 03 06:18	21° \mathfrak{Y} 07'50	
evening rise	1982 Apr 19 05:15	7° \mathfrak{B} 12'35			1983 Apr 07 17:04	0° \mathfrak{B}	
	1982 May 01 13:29	0° Π		evening max el	1983 Apr 21 07:59	20° \mathfrak{B} 32'32	20°04'07
evening max el	1982 May 09 00:20	9° Π 16'35	21°21'29	retrograde	1983 May 01 16:37	25° \mathfrak{B} 33'01	
retrograde	1982 May 21 02:05	15° Π 10'36		evening set	1983 May 03 17:13	25° \mathfrak{B} 22'23	
evening set	1982 May 23 10:09	14° Π 58'06		desc. node	1983 May 11 13:34	22° \mathfrak{B} 03'21	
desc. node	1982 May 24 16:32	14° Π 41'25		inferior conj	1983 May 12 16:37	21° \mathfrak{B} 23'07	-0°19'42
inferior conj	1982 Jun 01 19:42	10° Π 58'31	-2°19'10	minimum elong	1983 May 12 15:42	21° \mathfrak{B} 24'28	0°19'22
minimum elong	1982 Jun 01 13:23	11° Π 07'24	2°17'02	min. Earth dist.	1983 May 14 14:07	20° \mathfrak{B} 15'03	0.55322 AU
min. Earth dist.	1982 Jun 02 00:48	10° Π 51'22	0.54905 AU				

morning rise	1983 May 21 12:20	17°  00'27		desc. node	1984 Apr 27 10:35	28°  47'57	
direct	1983 May 25 12:48	16°  25'08		morning rise	1984 Apr 30 13:05	27°  17'38	
morning max el	1983 Jun 08 05:46	23°  10'43	23°57'42	direct	1984 May 05 14:06	26°  18'07	
	1983 Jun 14 08:06	0°  II			1984 May 15 12:33	0°  8	
asc. node	1983 Jun 30 05:34	26°  II45'26		morning max el	1984 May 19 20:17	3°  837'59	25°35'23
	1983 Jul 01 19:18	0°  ☿			1984 Jun 07 15:45	0°  II	
morning set	1983 Jul 02 15:22	1°  ☿45'13		morning set	1984 Jun 16 03:03	16°  II40'50	
				asc. node	1984 Jun 16 02:38	16°  II38'41	
superior conj	1983 Jul 09 15:49	16°  ☿52'17	1°24'58		1984 Jun 22 06:39	0°  ☿	
minimum elong	1983 Jul 09 13:27	16°  ☿39'35	1°24'40				
max. Earth dist.	1983 Jul 11 16:51	21°  ☿15'49	1.33274 AU	superior conj	1984 Jun 23 02:23	1°  ☿48'10	1°07'50
	1983 Jul 15 20:57	0°  Ω		minimum elong	1984 Jun 23 00:03	1°  ☿35'19	1°07'27
evening rise	1983 Jul 17 01:51	2°  Ω26'48		max. Earth dist.	1984 Jun 24 01:14	3°  ☿53'12	1.32548 AU
	1983 Aug 01 10:22	0°  ♍		evening rise	1984 Jun 30 04:01	16°  ☿57'21	
desc. node	1983 Aug 07 12:56	9°  ♍03'24			1984 Jul 06 18:56	0°  Ω	
evening max el	1983 Aug 19 15:56	23°  ♍27'20	27°25'19	desc. node	1984 Jul 24 09:56	27°  Ω41'41	
	1983 Aug 29 06:07	0°  ♌			1984 Jul 26 06:49	0°  ♍	
retrograde	1983 Sep 02 06:41	0°  ♌44'53		evening max el	1984 Jul 31 23:43	6°  ♍08'31	27°15'37
	1983 Sep 06 02:30	30°  ♌♍		retrograde	1984 Aug 14 19:34	13°  ♍23'36	
evening set	1983 Sep 09 10:41	28°  ♍05'30		evening set	1984 Aug 21 23:28	11°  ♍00'41	
min. Earth dist.	1983 Sep 13 02:40	24°  ♍51'05	0.63772 AU	min. Earth dist.	1984 Aug 25 13:48	8°  ♍12'39	0.61947 AU
inferior conj	1983 Sep 15 15:49	22°  ♍14'05	-3°16'57	inferior conj	1984 Aug 28 14:32	5°  ♍27'05	-4°07'26
minimum elong	1983 Sep 15 20:49	22°  ♍01'15	3°15'22	minimum elong	1984 Aug 28 19:50	5°  ♍14'59	4°06'13
morning rise	1983 Sep 22 08:05	16°  ♍54'25		morning rise	1984 Sep 04 17:44	0°  ♍27'13	
direct	1983 Sep 24 20:49	16°  ♍22'51		direct	1984 Sep 07 04:02	0°  ♍01'46	
asc. node	1983 Sep 26 04:45	16°  ♍31'44		asc. node	1984 Sep 12 01:50	1°  ♍49'02	
morning max el	1983 Oct 01 10:04	19°  ♍48'27	17°53'25	morning max el	1984 Sep 14 01:15	3°  ♍30'05	17°54'28
	1983 Oct 08 23:44	0°  ♌		morning set	1984 Sep 29 23:57	28°  ♍30'22	
morning set	1983 Oct 18 04:18	15°  ♌32'49			1984 Sep 30 19:44	0°  ♌	
	1983 Oct 26 15:47	0°  ♌					
superior conj	1983 Oct 30 16:29	6°  ♌40'29	0°25'44	superior conj	1984 Oct 10 17:36	17°  ♌35'18	1°02'47
minimum elong	1983 Oct 30 19:12	6°  ♌51'38	0°25'21	minimum elong	1984 Oct 10 22:10	17°  ♌54'58	1°02'14
desc. node	1983 Nov 03 12:15	12°  ♌53'19		max. Earth dist.	1984 Oct 18 02:03	29°  ♌56'01	1.42830 AU
max. Earth dist.	1983 Nov 05 12:09	16°  ♌05'15	1.44236 AU		1984 Oct 18 03:01	0°  ♌	
	1983 Nov 14 08:56	0°  ♌♍		desc. node	1984 Oct 20 09:16	3°  ♌40'22	
evening rise	1983 Nov 15 13:40	1°  ♌♍50'46		evening rise	1984 Oct 25 01:19	11°  ♌06'01	
	1983 Dec 04 11:22	0°  ♌☿			1984 Nov 06 12:09	0°  ♌♍	
evening max el	1983 Dec 13 21:32	11°  ♌50'53	20°37'24	evening max el	1984 Nov 25 17:55	25°  ♌21'27	21°49'47
retrograde	1983 Dec 22 00:53	16°  ♌39'15			1984 Dec 01 16:29	0°  ♌☿	
asc. node	1983 Dec 23 04:00	16°  ♌32'06		retrograde	1984 Dec 04 21:46	0°  ♌48'37	
evening set	1983 Dec 25 22:23	15°  ♌11'57			1984 Dec 07 21:46	30°  ♌♍	
inferior conj	1983 Dec 31 07:41	9°  ♌03'04	2°30'52	evening set	1984 Dec 09 06:05	29°  ♌05'15	
minimum elong	1983 Dec 31 05:05	9°  ♌11'56	2°30'04	asc. node	1984 Dec 09 01:03	29°  ♌15'06	
min. Earth dist.	1983 Dec 31 21:47	8°  ♌14'56	0.67344 AU	inferior conj	1984 Dec 14 14:28	22°  ♌47'27	1°48'51
morning rise	1984 Jan 05 11:36	2°  ♌49'57		minimum elong	1984 Dec 14 12:16	22°  ♌55'03	1°48'02
direct	1984 Jan 11 00:37	0°  ♌23'00		min. Earth dist.	1984 Dec 14 16:54	22°  ♌38'59	0.67751 AU
morning max el	1984 Jan 22 04:26	7°  ♌02'17	24°19'21	morning rise	1984 Dec 19 18:20	16°  ♌35'33	
desc. node	1984 Jan 30 11:26	16°  ♌42'36		direct	1984 Dec 24 16:11	14°  ♌30'19	
	1984 Feb 09 01:50	0°  ♌☿		morning max el	1985 Jan 03 14:15	20°  ♌22'59	22°50'47
morning set	1984 Feb 27 01:36	28°  ♌47'52			1985 Jan 11 18:24	0°  ♌☿	
	1984 Feb 27 18:07	0°  ♌♍		desc. node	1985 Jan 16 08:28	6°  ♌10'58	
max. Earth dist.	1984 Mar 01 18:20	5°  ♌21'07	1.37852 AU		1985 Feb 01 07:43	0°  ♌☿	
				morning set	1985 Feb 06 22:32	9°  ♌05'17	
superior conj	1984 Mar 08 17:32	18°  ♌20'27	-1°38'34	max. Earth dist.	1985 Feb 11 13:53	16°  ♌53'54	1.39998 AU
minimum elong	1984 Mar 08 21:49	18°  ♌41'05	1°38'04		1985 Feb 18 23:41	0°  ♌♍	
	1984 Mar 14 16:27	0°  ♌☿		superior conj	1985 Feb 19 07:49	0°  ♌37'03	-1°56'53
evening rise	1984 Mar 17 11:19	5°  ♌31'26		minimum elong	1985 Feb 19 11:18	0°  ♌52'59	1°56'40
asc. node	1984 Mar 20 03:21	10°  ♌45'06		evening rise	1985 Mar 01 01:57	18°  ♌56'42	
	1984 Mar 31 20:25	0°  ♌		asc. node	1985 Mar 07 00:22	0°  ♌01'09	
evening max el	1984 Apr 03 02:58	2°  ♌28'02	19°05'40		1985 Mar 07 00:07	0°  ♌☿	
retrograde	1984 Apr 11 20:24	6°  ♌41'50		evening max el	1985 Mar 17 06:54	14°  ♌57'37	18°27'27
evening set	1984 Apr 14 00:00	6°  ♌27'30		retrograde	1985 Mar 24 19:00	18°  ♌39'31	
inferior conj	1984 Apr 22 04:50	2°  ♌14'35	1°27'38	evening set	1985 Mar 27 04:26	18°  ♌18'05	
minimum elong	1984 Apr 22 08:03	2°  ♌09'01	1°26'35	inferior conj	1985 Apr 03 14:05	13°  ♌45'48	2°43'35
min. Earth dist.	1984 Apr 25 05:23	0°  ♌10'32	0.56614 AU	minimum elong	1985 Apr 03 17:59	13°  ♌37'55	2°42'38
	1984 Apr 25 11:49	30°  ♌♍		min. Earth dist.	1985 Apr 07 00:33	11°  ♌00'55	0.58500 AU

morning rise	1985 Apr 11 04:40	8°♿17'50		min. Earth dist.	1986 Mar 20 01:57	22°♿53'19	0.60637 AU
desc. node	1985 Apr 14 07:37	7°♿05'30		morning rise	1986 Mar 23 15:54	20°♿06'23	
direct	1985 Apr 17 05:23	6°♿43'26		direct	1986 Mar 30 08:42	17°♿55'42	
morning max el	1985 May 01 14:36	14°♿24'48	26°53'21	desc. node	1986 Apr 01 04:39	18°♿05'01	
	1985 May 14 02:10	0°♿		morning max el	1986 Apr 13 14:55	25°♿48'20	27°39'27
	1985 May 30 19:44	0°♿			1986 Apr 17 12:33	0°♿	
morning set	1985 May 31 13:03	1°♿30'20			1986 May 07 12:33	0°♿	
asc. node	1985 Jun 02 23:41	6°♿41'58		morning set	1986 May 15 19:34	16°♿07'15	
				asc. node	1986 May 20 20:41	26°♿50'29	
superior conj	1985 Jun 07 14:10	16°♿45'37	0°46'57	max. Earth dist.	1986 May 22 00:44	29°♿23'20	1.32252 AU
minimum elong	1985 Jun 07 12:17	16°♿35'14	0°46'36		1986 May 22 07:26	0°♿	
max. Earth dist.	1985 Jun 07 13:08	16°♿39'55	1.32207 AU				
	1985 Jun 13 16:11	0°♿		superior conj	1986 May 23 01:24	1°♿38'23	0°23'02
evening rise	1985 Jun 14 11:32	1°♿42'18		minimum elong	1986 May 23 00:22	1°♿32'45	0°22'49
	1985 Jun 29 19:34	0°♿		evening rise	1986 May 29 22:09	16°♿34'01	
desc. node	1985 Jul 11 06:56	15°♿16'41			1986 Jun 05 14:06	0°♿	
evening max el	1985 Jul 14 01:27	18°♿06'13	26°32'49	evening max el	1986 Jun 25 20:07	29°♿17'36	25°20'20
retrograde	1985 Jul 28 00:52	25°♿18'58			1986 Jun 26 14:15	0°♿	
evening set	1985 Aug 03 17:27	23°♿25'50		desc. node	1986 Jun 28 03:56	1°♿21'56	
min. Earth dist.	1985 Aug 07 14:50	20°♿49'39	0.59907 AU	retrograde	1986 Jul 09 20:27	6°♿25'25	
inferior conj	1985 Aug 10 22:08	18°♿11'56	-4°44'49	evening set	1986 Jul 15 12:18	5°♿10'57	
minimum elong	1985 Aug 11 01:52	18°♿04'29	4°44'22	min. Earth dist.	1986 Jul 20 08:04	2°♿28'09	0.57876 AU
morning rise	1985 Aug 18 12:19	13°♿34'29		inferior conj	1986 Jul 23 11:10	0°♿18'30	-4°58'07
direct	1985 Aug 20 22:48	13°♿12'50		minimum elong	1986 Jul 23 10:47	0°♿19'10	4°58'06
morning max el	1985 Aug 28 12:19	16°♿53'20	18°14'56		1986 Jul 23 21:51	30°♿	
asc. node	1985 Aug 29 22:53	18°♿23'30		morning rise	1986 Jul 31 11:47	26°♿03'19	
	1985 Sep 06 19:39	0°♿		direct	1986 Aug 03 00:48	25°♿43'43	
morning set	1985 Sep 13 10:17	12°♿10'30		morning max el	1986 Aug 11 16:00	29°♿47'44	18°56'01
					1986 Aug 11 21:09	0°♿	
superior conj	1985 Sep 22 19:49	29°♿44'35	1°27'45	asc. node	1986 Aug 16 19:55	5°♿59'02	
minimum elong	1985 Sep 22 23:34	0°♿01'33	1°27'25	morning set	1986 Aug 28 06:54	26°♿20'21	
	1985 Sep 22 23:13	0°♿			1986 Aug 30 03:28	0°♿	
max. Earth dist.	1985 Sep 30 10:11	13°♿06'41	1.40984 AU				
evening rise	1985 Oct 05 06:28	21°♿11'18		superior conj	1986 Sep 05 17:32	12°♿51'17	1°41'29
desc. node	1985 Oct 07 06:17	24°♿24'57		minimum elong	1986 Sep 05 19:26	13°♿00'22	1°41'23
	1985 Oct 10 18:50	0°♿		max. Earth dist.	1986 Sep 12 14:08	25°♿33'34	1.38943 AU
	1985 Oct 31 16:44	0°♿			1986 Sep 15 02:28	0°♿	
evening max el	1985 Nov 08 09:29	8°♿54'31	23°08'40	evening rise	1986 Sep 16 11:31	2°♿23'01	
retrograde	1985 Nov 18 16:10	15°♿00'13		desc. node	1986 Sep 24 03:18	15°♿02'31	
evening set	1985 Nov 23 12:59	13°♿00'01			1986 Oct 04 00:19	0°♿	
asc. node	1985 Nov 25 22:05	10°♿33'40		evening max el	1986 Oct 21 22:17	22°♿31'33	24°28'08
inferior conj	1985 Nov 28 21:56	6°♿37'10	1°00'47	retrograde	1986 Nov 02 06:48	29°♿09'44	
minimum elong	1985 Nov 28 20:34	6°♿41'53	1°00'13	evening set	1986 Nov 07 17:28	26°♿53'00	
min. Earth dist.	1985 Nov 28 13:39	7°♿05'42	0.67815 AU	min. Earth dist.	1986 Nov 12 09:32	21°♿32'11	0.67545 AU
morning rise	1985 Dec 04 04:04	0°♿28'26		asc. node	1986 Nov 12 19:06	21°♿00'12	
	1985 Dec 04 19:23	30°♿		inferior conj	1986 Nov 13 04:19	20°♿29'20	0°07'56
direct	1985 Dec 08 11:23	28°♿45'58		minimum elong	1986 Nov 13 04:07	20°♿30'00	0°07'51
	1985 Dec 12 11:05	0°♿		transit middle	1986 Nov 13 04:07	20°♿30'00	0°07'51
morning max el	1985 Dec 17 04:52	3°♿51'58	21°26'19	transit begin	1986 Nov 13 01:43	20°♿38'02	
desc. node	1986 Jan 03 05:30	26°♿06'58		transit end	1986 Nov 13 06:31	20°♿21'58	
	1986 Jan 05 20:42	0°♿		morning rise	1986 Nov 18 14:49	14°♿26'09	
morning set	1986 Jan 17 14:27	18°♿00'40		direct	1986 Nov 22 09:02	13°♿05'07	
max. Earth dist.	1986 Jan 24 14:12	29°♿17'17	1.42045 AU	morning max el	1986 Nov 30 02:49	17°♿31'19	20°12'19
	1986 Jan 25 00:33	0°♿			1986 Dec 10 00:34	0°♿	
				desc. node	1986 Dec 21 02:34	16°♿22'42	
superior conj	1986 Feb 01 01:11	11°♿52'25	-2°04'56	morning set	1986 Dec 27 11:34	26°♿08'46	
minimum elong	1986 Feb 01 01:30	11°♿53'48	2°04'56		1986 Dec 29 23:09	0°♿	
	1986 Feb 11 05:21	0°♿		max. Earth dist.	1987 Jan 06 22:26	12°♿35'00	1.43714 AU
evening rise	1986 Feb 12 03:38	1°♿41'23					
asc. node	1986 Feb 21 21:23	18°♿49'03		superior conj	1987 Jan 12 17:06	21°♿57'28	-1°57'41
evening max el	1986 Feb 28 16:36	27°♿52'52	18°09'13	minimum elong	1987 Jan 12 12:05	21°♿36'52	1°57'27
	1986 Mar 03 07:22	0°♿			1987 Jan 17 13:08	0°♿	
retrograde	1986 Mar 07 10:56	1°♿18'51		evening rise	1987 Jan 25 12:10	13°♿37'20	
evening set	1986 Mar 10 02:04	0°♿48'10			1987 Feb 04 02:31	0°♿	
	1986 Mar 11 17:36	30°♿		asc. node	1987 Feb 08 18:23	7°♿00'16	
inferior conj	1986 Mar 16 19:34	25°♿55'09	3°26'35	evening max el	1987 Feb 12 04:59	11°♿05'32	18°10'21
minimum elong	1986 Mar 16 21:58	25°♿49'31	3°26'16	retrograde	1987 Feb 18 16:07	14°♿30'07	

evening set	1987 Feb 21 12:31	13°  48'54		evening max el	1988 Jan 26 17:12	24°  28'08	18°30'02
inferior conj	1987 Feb 27 17:40	8°  35'37	3°42'51	asc. node	1988 Jan 26 15:25	24°  23'37	
minimum elong	1987 Feb 27 18:05	8°  34'32	3°42'51	retrograde	1988 Feb 02 06:18	28°  03'58	
min. Earth dist.	1987 Mar 02 11:42	5°  41'22	0.62711 AU	evening set	1988 Feb 05 08:07	27°  11'23	
morning rise	1987 Mar 05 22:33	2°  34'42		inferior conj	1988 Feb 11 04:23	21°  39'14	3°39'14
	1987 Mar 11 21:55	30°  R 		minimum elong	1988 Feb 11 03:10	21°  42'49	3°39'08
direct	1987 Mar 12 21:22	29°  57'01		min. Earth dist.	1988 Feb 13 06:57	19°  10'57	0.64510 AU
	1987 Mar 13 21:09	0°  X		morning rise	1988 Feb 16 21:41	15°  31'23	
desc. node	1987 Mar 19 01:42	1°  X43'51		direct	1988 Feb 23 17:30	12°  40'50	
morning max el	1987 Mar 26 20:44	7°  X52'45	27°48'30	desc. node	1988 Mar 04 22:46	17°  28'38	
	1987 Apr 12 20:23	0°  Y		morning max el	1988 Mar 08 05:52	20°  31'21	27°21'47
morning set	1987 Apr 29 20:31	0°  B24'32			1988 Mar 16 10:09	0°  X	
	1987 Apr 29 15:39	0°  B			1988 Apr 04 22:04	0°  Y	
max. Earth dist.	1987 May 05 08:19	11°  B51'00	1.32698 AU	morning set	1988 Apr 12 13:06	14°  Y12'36	
				max. Earth dist.	1988 Apr 17 07:55	23°  Y50'06	1.33577 AU
					1988 Apr 20 06:42	0°  B	
superior conj	1987 May 07 10:24	16°  B20'38	-0°03'14				
minimum elong	1987 May 07 10:34	16°  B21'29	0°03'12	superior conj	1988 Apr 20 15:14	0°  B45'07	-0°30'54
behind sun begin	1987 May 07 05:27	15°  B53'47		minimum elong	1988 Apr 20 16:47	0°  B53'19	0°30'35
behind sun end	1987 May 07 15:41	16°  B49'12		asc. node	1988 Apr 23 14:44	7°  B06'06	
asc. node	1987 May 07 17:43	17°  B00'14		evening rise	1988 Apr 27 21:09	16°  B10'35	
	1987 May 13 17:50	0°  II			1988 May 04 19:40	0°  II	
evening rise	1987 May 14 09:59	1°  II25'55		evening max el	1988 May 19 02:10	20°  II25'51	22°12'52
	1987 May 30 04:21	0°  B		retrograde	1988 May 31 22:43	26°  II47'01	
evening max el	1987 Jun 07 10:17	9°  B55'28	23°48'41	desc. node	1988 May 31 21:57	26°  II47'01	
desc. node	1987 Jun 15 00:56	15°  B23'49		evening set	1988 Jun 03 19:23	26°  II28'53	
retrograde	1987 Jun 21 03:44	16°  B48'39		min. Earth dist.	1988 Jun 12 08:15	22°  II49'11	0.55115 AU
evening set	1987 Jun 25 08:56	16°  B09'31		inferior conj	1988 Jun 13 03:55	22°  II21'31	-3°20'09
min. Earth dist.	1987 Jul 01 20:50	13°  B04'36	0.56171 AU	minimum elong	1988 Jun 12 20:03	22°  II32'35	3°17'56
inferior conj	1987 Jul 04 04:03	11°  B40'48	-4°33'06	morning rise	1988 Jun 21 22:31	18°  II29'21	
minimum elong	1987 Jul 03 22:19	11°  B49'32	4°32'13	direct	1988 Jun 24 22:40	18°  II09'04	
morning rise	1987 Jul 12 14:21	7°  B43'10		morning max el	1988 Jul 06 15:34	23°  II36'39	21°21'12
direct	1987 Jul 15 07:51	7°  B24'11			1988 Jul 12 06:42	0°  B	
morning max el	1987 Jul 25 09:32	12°  B04'18	19°58'27	asc. node	1988 Jul 20 14:02	13°  B21'14	
asc. node	1987 Aug 03 16:58	24°  B22'15		morning set	1988 Jul 26 18:55	25°  B37'16	
	1987 Aug 06 21:20	0°  B			1988 Jul 28 21:19	0°  B	
morning set	1987 Aug 12 10:36	10°  B51'39					
				superior conj	1988 Aug 03 03:29	11°  B00'54	1°42'23
superior conj	1987 Aug 20 05:29	26°  B40'53	1°45'46	minimum elong	1988 Aug 03 02:11	10°  B54'11	1°42'19
minimum elong	1987 Aug 20 05:34	26°  B41'17	1°45'45	max. Earth dist.	1988 Aug 07 06:11	19°  B24'20	1.35227 AU
	1987 Aug 21 21:36	0°  B 		evening rise	1988 Aug 11 13:23	27°  B47'37	
max. Earth dist.	1987 Aug 25 19:03	7°  B31'47	1.36960 AU		1988 Aug 12 17:29	0°  B 	
evening rise	1987 Aug 29 15:16	14°  B38'50		desc. node	1988 Aug 27 21:19	25°  B36'49	
	1987 Sep 07 13:52	0°  B 			1988 Aug 30 20:25	0°  B 	
desc. node	1987 Sep 11 00:18	5°  B28'22		evening max el	1988 Sep 15 22:35	19°  B49'27	26°39'32
	1987 Sep 28 17:21	0°  B 		retrograde	1988 Sep 28 21:37	27°  B03'31	
evening max el	1987 Oct 04 10:22	6°  B11'44	25°40'58	evening set	1988 Oct 05 12:00	24°  B22'04	
retrograde	1987 Oct 16 16:46	13°  B12'47		min. Earth dist.	1988 Oct 09 13:06	20°  B13'12	0.65988 AU
evening set	1987 Oct 22 17:48	10°  B14'24		inferior conj	1988 Oct 11 06:34	18°  B09'50	-1°46'42
min. Earth dist.	1987 Oct 27 02:09	5°  B55'55	0.66940 AU	minimum elong	1988 Oct 11 09:24	18°  B01'22	1°45'32
inferior conj	1987 Oct 28 07:50	4°  B21'20	-0°48'25	asc. node	1988 Oct 16 13:14	12°  B53'47	
minimum elong	1987 Oct 28 09:05	4°  B17'20	0°47'53	morning rise	1988 Oct 17 07:24	12°  B26'20	
asc. node	1987 Oct 30 16:10	1°  B28'56		direct	1988 Oct 20 05:22	11°  B38'50	
	1987 Nov 01 01:57	30°  R 		morning max el	1988 Oct 26 20:23	15°  B16'26	18°28'26
morning rise	1987 Nov 03 00:38	28°  B26'28			1988 Nov 06 14:57	0°  B 	
direct	1987 Nov 06 07:39	27°  B23'59		morning set	1988 Nov 15 17:59	14°  B34'44	
	1987 Nov 11 21:57	0°  B 		desc. node	1988 Nov 23 20:38	27°  B31'46	
morning max el	1987 Nov 13 08:30	1°  B20'42	19°12'27		1988 Nov 25 10:04	0°  B 	
	1987 Dec 03 13:33	0°  B 		superior conj	1988 Dec 01 09:23	9°  B24'36	-0°49'00
morning set	1987 Dec 06 14:12	4°  B 	42'24	minimum elong	1988 Dec 01 03:08	9°  B00'04	0°48'12
desc. node	1987 Dec 07 23:36	6°  B 	52'26	max. Earth dist.	1988 Dec 02 08:33	10°  B55'35	1.45151 AU
max. Earth dist.	1987 Dec 20 13:41	26°  B 	34'36		1988 Dec 14 11:53	0°  B 	
	1987 Dec 22 17:40	0°  B 		evening rise	1988 Dec 17 11:23	4°  B42'06	
superior conj	1987 Dec 23 07:52	0°  B56'17	-1°31'34	greatest brilliancy	1988 Dec 27 03:48	19°  B57'50	-0.8m
minimum elong	1987 Dec 22 23:05	0°  B21'28	1°30'43		1989 Jan 02 19:41	0°  B 	
evening rise	1988 Jan 06 23:27	24°  B37'59		evening max el	1989 Jan 09 02:50	7°  B55'55	19°07'18
	1988 Jan 10 05:28	0°  B 					

asc. node	1989 Jan 12 12:29	10° \approx 45'59		max. Earth dist.	1989 Nov 15 03:18	25° \mathbb{M} 17'09	1.44770 AU
retrograde	1989 Jan 16 01:45	11° \approx 53'45			1989 Nov 18 03:10	0° \mathbb{X}	
evening set	1989 Jan 19 09:55	10° \approx 48'50		evening rise	1989 Nov 27 03:17	13° \mathbb{X} 59'48	
inferior conj	1989 Jan 25 00:11	5° \approx 00'09	3°21'00		1989 Dec 07 14:30	0° \mathbb{Z}	
minimum elong	1989 Jan 24 21:57	5° \approx 07'13	3°20'36	greatest brilliancy	1989 Dec 11 05:18	5° \mathbb{Z} 24'24	-0.6m
min. Earth dist.	1989 Jan 26 11:28	3° \approx 08'06	0.65929 AU	evening max el	1989 Dec 23 07:58	21° \mathbb{Z} 25'17	20°00'33
	1989 Jan 29 04:06	30° \mathbb{R} \mathbb{Z}		asc. node	1989 Dec 30 09:34	25° \mathbb{Z} 51'49	
morning rise	1989 Jan 30 09:42	28° \mathbb{Z} 48'24		retrograde	1989 Dec 30 23:29	25° \mathbb{Z} 53'42	
direct	1989 Feb 05 20:07	25° \mathbb{Z} 58'54		evening set	1990 Jan 03 15:30	24° \mathbb{Z} 35'09	
	1989 Feb 14 18:11	0° \approx		inferior conj	1990 Jan 09 02:04	18° \mathbb{Z} 32'43	2°51'44
morning max el	1989 Feb 18 15:46	3° \approx 33'07	26°25'28	minimum elong	1990 Jan 08 23:26	18° \mathbb{Z} 41'30	2°51'02
desc. node	1989 Feb 19 19:50	4° \approx 45'32		min. Earth dist.	1990 Jan 09 23:30	17° \mathbb{Z} 20'58	0.66941 AU
	1989 Mar 10 18:07	0° \mathbb{X}		morning rise	1990 Jan 14 07:10	12° \mathbb{Z} 19'22	
morning set	1989 Mar 26 17:45	27° \mathbb{X} 21'14		direct	1990 Jan 20 04:31	9° \mathbb{Z} 41'50	
	1989 Mar 28 03:16	0° \mathbb{Y}		morning max el	1990 Feb 01 00:39	16° \mathbb{Z} 45'38	25°08'38
max. Earth dist.	1989 Mar 30 20:30	5° \mathbb{Y} 16'17	1.34913 AU	desc. node	1990 Feb 06 16:52	23° \mathbb{Z} 07'27	
					1990 Feb 12 01:11	0° \approx	
superior conj	1989 Apr 04 13:36	14° \mathbb{Y} 45'29	-0°58'47		1990 Mar 03 17:14	0° \mathbb{X}	
minimum elong	1989 Apr 04 16:34	15° \mathbb{Y} 00'42	0°58'15	morning set	1990 Mar 09 05:35	9° \mathbb{X} 36'29	
asc. node	1989 Apr 10 11:48	27° \mathbb{Y} 04'26		max. Earth dist.	1990 Mar 12 21:38	16° \mathbb{X} 18'51	1.36678 AU
	1989 Apr 11 21:36	0° \mathbb{B}					
evening rise	1989 Apr 12 05:45	0° \mathbb{B} 42'06		superior conj	1990 Mar 19 02:39	28° \mathbb{X} 13'58	-1°25'06
	1989 Apr 29 19:53	0° \mathbb{I}		minimum elong	1990 Mar 19 06:42	28° \mathbb{X} 33'56	1°24'31
evening max el	1989 May 01 02:53	1° \mathbb{I} 19'17	20°46'20		1990 Mar 20 00:04	0° \mathbb{Y}	
retrograde	1989 May 12 11:52	6° \mathbb{I} 51'20		evening rise	1990 Mar 27 09:33	14° \mathbb{Y} 53'56	
evening set	1989 May 14 14:49	6° \mathbb{I} 40'30		asc. node	1990 Mar 28 08:51	16° \mathbb{Y} 50'52	
desc. node	1989 May 18 19:00	5° \mathbb{I} 23'02			1990 Apr 04 07:35	0° \mathbb{B}	
inferior conj	1989 May 23 21:36	2° \mathbb{I} 42'41	-1°29'01	evening max el	1990 Apr 13 15:31	12° \mathbb{B} 52'16	19°36'51
minimum elong	1989 May 23 17:23	2° \mathbb{I} 48'41	1°27'30	retrograde	1990 Apr 23 06:55	17° \mathbb{B} 31'35	
min. Earth dist.	1989 May 24 20:39	2° \mathbb{I} 09'44	0.54962 AU	evening set	1990 Apr 25 07:48	17° \mathbb{B} 20'02	
	1989 May 28 22:53	30° \mathbb{R} \mathbb{B}		inferior conj	1990 May 03 23:49	13° \mathbb{B} 16'25	0°28'57
morning rise	1989 Jun 01 19:29	28° \mathbb{B} 36'09		minimum elong	1990 May 04 01:04	13° \mathbb{B} 14'26	0°28'30
direct	1989 Jun 05 08:07	28° \mathbb{B} 09'22		desc. node	1990 May 05 16:01	12° \mathbb{B} 12'40	
	1989 Jun 12 08:56	0° \mathbb{I}		min. Earth dist.	1990 May 06 10:59	11° \mathbb{B} 43'06	0.55769 AU
morning max el	1989 Jun 18 11:43	4° \mathbb{I} 28'46	22°58'57	morning rise	1990 May 12 15:40	8° \mathbb{B} 39'05	
	1989 Jul 06 00:55	0° \mathbb{E}		direct	1990 May 17 02:02	7° \mathbb{B} 55'01	
asc. node	1989 Jul 07 11:05	2° \mathbb{E} 46'46		morning max el	1990 May 31 02:34	14° \mathbb{B} 57'57	24°40'47
morning set	1989 Jul 11 05:52	10° \mathbb{E} 30'56			1990 Jun 12 00:29	0° \mathbb{I}	
				asc. node	1990 Jun 24 08:07	22° \mathbb{I} 31'50	
superior conj	1989 Jul 18 08:16	25° \mathbb{E} 41'12	1°32'49	morning set	1990 Jun 25 17:44	25° \mathbb{I} 27'40	
minimum elong	1989 Jul 18 06:09	25° \mathbb{E} 29'52	1°32'37		1990 Jun 27 20:46	0° \mathbb{E}	
	1989 Jul 20 09:04	0° \mathbb{Q}					
max. Earth dist.	1989 Jul 21 02:14	1° \mathbb{Q} 30'04	1.33862 AU	superior conj	1990 Jul 02 17:21	10° \mathbb{E} 33'56	1°18'13
evening rise	1989 Jul 26 01:19	11° \mathbb{Q} 36'46		minimum elong	1990 Jul 02 14:57	10° \mathbb{E} 20'49	1°17'52
	1989 Aug 05 00:54	0° \mathbb{P}		max. Earth dist.	1990 Jul 04 06:45	13° \mathbb{E} 56'41	1.32907 AU
desc. node	1989 Aug 14 18:20	15° \mathbb{P} 19'37		evening rise	1990 Jul 09 23:14	25° \mathbb{E} 55'38	
	1989 Aug 26 06:14	0° \mathbb{E}			1990 Jul 11 23:48	0° \mathbb{Q}	
evening max el	1989 Aug 29 10:29	3° \mathbb{E} 14'53	27°16'29		1990 Jul 29 11:10	0° \mathbb{P}	
retrograde	1989 Sep 11 20:57	10° \mathbb{E} 33'38		desc. node	1990 Aug 01 15:21	4° \mathbb{P} 26'07	
evening set	1989 Sep 18 21:30	7° \mathbb{E} 50'04		evening max el	1990 Aug 11 20:32	16° \mathbb{P} 16'31	27°25'17
min. Earth dist.	1989 Sep 22 16:08	4° \mathbb{E} 17'05	0.64678 AU	retrograde	1990 Aug 25 14:08	23° \mathbb{P} 34'04	
inferior conj	1989 Sep 24 22:11	1° \mathbb{E} 49'50	-2°44'47	evening set	1990 Sep 01 19:04	20° \mathbb{P} 59'58	
minimum elong	1989 Sep 25 02:32	1° \mathbb{E} 37'59	2°43'15	min. Earth dist.	1990 Sep 05 09:34	17° \mathbb{P} 58'01	0.63024 AU
	1989 Sep 26 15:28	30° \mathbb{R} \mathbb{P}		inferior conj	1990 Sep 08 04:00	15° \mathbb{P} 15'27	-3°39'27
morning rise	1989 Oct 01 08:32	26° \mathbb{P} 20'43		minimum elong	1990 Sep 08 09:17	15° \mathbb{P} 02'29	3°37'58
asc. node	1989 Oct 03 10:19	25° \mathbb{P} 46'07		morning rise	1990 Sep 15 00:52	10° \mathbb{P} 03'54	
direct	1989 Oct 03 23:48	25° \mathbb{P} 44'28		direct	1990 Sep 17 12:06	9° \mathbb{P} 35'25	
morning max el	1989 Oct 10 11:52	29° \mathbb{P} 12'13	18°01'09	asc. node	1990 Sep 20 07:21	10° \mathbb{P} 12'59	
	1989 Oct 11 06:11	0° \mathbb{E}		morning max el	1990 Sep 24 04:01	13° \mathbb{P} 01'27	17°51'33
morning set	1989 Oct 28 02:38	25° \mathbb{E} 51'46			1990 Oct 05 17:44	0° \mathbb{E}	
	1989 Oct 30 13:53	0° \mathbb{M}		morning set	1990 Oct 10 11:25	8° \mathbb{E} 18'33	
superior conj	1989 Nov 10 18:56	18° \mathbb{M} 21'47	-0°00'22	superior conj	1990 Oct 22 04:21	28° \mathbb{E} 30'42	0°42'51
minimum elong	1989 Nov 10 18:53	18° \mathbb{M} 21'36	0°00'21	minimum elong	1990 Oct 22 08:18	28° \mathbb{E} 47'11	0°42'19
behind sun begin	1989 Nov 10 08:24	17° \mathbb{M} 39'31			1990 Oct 23 01:46	0° \mathbb{M}	
behind sun end	1989 Nov 11 05:22	19° \mathbb{M} 03'37		desc. node	1990 Oct 28 14:41	9° \mathbb{M} 04'11	
desc. node	1989 Nov 10 17:39	18° \mathbb{M} 16'39		max. Earth dist.	1990 Oct 28 19:16	9° \mathbb{M} 22'40	1.43708 AU

evening rise	1990 Nov 06 11:34	23° \mathbb{M} 03'59		desc. node	1991 Oct 15 11:42	29° \mathbb{L} 50'41	
	1990 Nov 11 00:06	0° \mathbb{A}			1991 Oct 15 14:01	0° \mathbb{M}	
	1990 Dec 02 00:13	0° \mathbb{B}		evening rise	1991 Oct 17 05:17	2° \mathbb{M} 37'15	
evening max el	1990 Dec 06 07:39	4° \mathbb{B} 55'50	21°07'02		1991 Nov 04 10:41	0° \mathbb{A}	
retrograde	1990 Dec 14 21:09	10° \mathbb{B} 00'33		evening max el	1991 Nov 19 01:59	18° \mathbb{A} 28'13	22°22'53
asc. node	1990 Dec 17 06:37	9° \mathbb{B} 28'39		retrograde	1991 Nov 28 17:01	24° \mathbb{A} 11'31	
evening set	1990 Dec 18 22:55	8° \mathbb{B} 26'48		evening set	1991 Dec 03 06:28	22° \mathbb{A} 21'10	
inferior conj	1990 Dec 24 07:40	2° \mathbb{B} 13'47	2°13'51	asc. node	1991 Dec 04 03:37	21° \mathbb{A} 33'50	
minimum elong	1990 Dec 24 05:10	2° \mathbb{B} 22'20	2°13'01	inferior conj	1991 Dec 08 14:58	16° \mathbb{A} 01'01	1°29'08
min. Earth dist.	1990 Dec 24 16:45	1° \mathbb{B} 42'29	0.67567 AU	minimum elong	1991 Dec 08 13:04	16° \mathbb{A} 07'34	1°28'24
	1990 Dec 25 22:57	30° \mathbb{R} \mathbb{A}		min. Earth dist.	1991 Dec 08 12:49	16° \mathbb{A} 08'25	0.67827 AU
morning rise	1990 Dec 29 11:14	26° \mathbb{A} 00'46		morning rise	1991 Dec 13 19:32	9° \mathbb{A} 50'16	
direct	1991 Jan 03 17:51	23° \mathbb{A} 42'26		direct	1991 Dec 18 11:12	7° \mathbb{A} 54'32	
	1991 Jan 14 08:02	0° \mathbb{B}		morning max el	1991 Dec 27 20:26	13° \mathbb{A} 26'18	22°13'51
morning max el	1991 Jan 14 09:07	0° \mathbb{B} 02'44	23°41'28		1992 Jan 10 01:46	0° \mathbb{B}	
desc. node	1991 Jan 24 13:54	12° \mathbb{B} 15'41		desc. node	1992 Jan 11 10:57	1° \mathbb{B} 57'15	
	1991 Feb 05 22:20	0° \approx			1992 Jan 29 21:15	0° \approx	
morning set	1991 Feb 18 18:25	20° \approx 41'04		morning set	1992 Jan 30 02:50	0° \approx 22'35	
max. Earth dist.	1991 Feb 22 16:30	27° \approx 28'42	1.38757 AU	max. Earth dist.	1992 Feb 04 13:44	9° \approx 22'56	1.40905 AU
	1991 Feb 24 02:35	0° \mathbb{H}					
superior conj	1991 Mar 02 02:35	11° \mathbb{H} 00'26	-1°47'19	superior conj	1992 Feb 12 08:43	22° \approx 53'23	-2°01'50
minimum elong	1991 Mar 02 06:46	11° \mathbb{H} 20'07	1°46'55	minimum elong	1992 Feb 12 11:12	23° \approx 04'24	2°01'45
evening rise	1991 Mar 11 05:52	28° \mathbb{H} 38'22			1992 Feb 16 07:04	0° \mathbb{H}	
	1991 Mar 11 22:40	0° \mathbb{Y}		evening rise	1992 Feb 22 15:30	11° \mathbb{H} 47'49	
asc. node	1991 Mar 15 05:54	6° \mathbb{Y} 19'45		asc. node	1992 Mar 01 02:55	25° \mathbb{H} 25'04	
evening max el	1991 Mar 27 14:46	25° \mathbb{Y} 03'36	18°47'01		1992 Mar 03 21:45	0° \mathbb{Y}	
retrograde	1991 Apr 04 18:09	29° \mathbb{Y} 01'22		evening max el	1992 Mar 09 21:37	7° \mathbb{Y} 45'42	18°17'16
evening set	1991 Apr 07 00:14	28° \mathbb{Y} 44'19		retrograde	1992 Mar 17 00:32	11° \mathbb{Y} 18'42	
inferior conj	1991 Apr 14 20:42	24° \mathbb{Y} 23'53	2°04'07	evening set	1992 Mar 19 12:38	10° \mathbb{Y} 53'21	
minimum elong	1991 Apr 15 00:36	24° \mathbb{Y} 16'43	2°02'58	inferior conj	1992 Mar 26 14:55	6° \mathbb{Y} 12'04	3°05'32
min. Earth dist.	1991 Apr 18 03:45	21° \mathbb{Y} 59'46	0.57362 AU	minimum elong	1992 Mar 26 18:21	6° \mathbb{Y} 04'42	3°04'52
morning rise	1991 Apr 22 21:50	19° \mathbb{Y} 12'53		min. Earth dist.	1992 Mar 30 00:59	3° \mathbb{Y} 17'08	0.59404 AU
desc. node	1991 Apr 22 13:03	19° \mathbb{Y} 22'48		morning rise	1992 Apr 02 21:36	0° \mathbb{Y} 34'21	
direct	1991 Apr 28 09:49	17° \mathbb{Y} 59'01			1992 Apr 03 23:52	30° \mathbb{R} \mathbb{H}	
morning max el	1991 May 12 17:56	25° \mathbb{Y} 29'42	26°11'49	desc. node	1992 Apr 08 10:05	28° \mathbb{H} 46'07	
	1991 May 16 22:45	0° \mathbb{B}		direct	1992 Apr 09 06:26	28° \mathbb{H} 44'10	
	1991 Jun 05 02:24	0° \mathbb{I}			1992 Apr 14 17:35	0° \mathbb{Y}	
morning set	1991 Jun 10 04:51	10° \mathbb{I} 20'57		morning max el	1992 Apr 23 14:35	6° \mathbb{Y} 30'23	27°17'21
asc. node	1991 Jun 11 05:09	12° \mathbb{I} 29'41			1992 May 11 04:10	0° \mathbb{B}	
				morning set	1992 May 24 13:35	25° \mathbb{B} 05'36	
superior conj	1991 Jun 17 04:38	25° \mathbb{I} 31'06	0°59'25		1992 May 26 21:16	0° \mathbb{I}	
minimum elong	1991 Jun 17 02:25	25° \mathbb{I} 18'58	0°59'01	asc. node	1992 May 28 02:11	2° \mathbb{I} 35'39	
max. Earth dist.	1991 Jun 17 16:57	26° \mathbb{I} 38'47	1.32353 AU	max. Earth dist.	1992 May 31 05:20	9° \mathbb{I} 26'16	1.32184 AU
	1991 Jun 19 05:40	0° \mathbb{B}					
evening rise	1991 Jun 24 03:57	10° \mathbb{B} 33'19		superior conj	1992 May 31 16:21	10° \mathbb{I} 26'54	0°37'09
	1991 Jul 04 06:05	0° \mathbb{L}		minimum elong	1992 May 31 14:47	10° \mathbb{I} 18'16	0°36'50
desc. node	1991 Jul 19 12:21	22° \mathbb{L} 40'09		evening rise	1992 Jun 07 13:02	25° \mathbb{I} 21'58	
evening max el	1991 Jul 25 02:11	28° \mathbb{L} 40'42	27°01'34		1992 Jun 09 18:27	0° \mathbb{B}	
	1991 Jul 26 13:00	0° \mathbb{M}			1992 Jun 27 05:11	0° \mathbb{L}	
retrograde	1991 Aug 07 23:58	5° \mathbb{M} 54'31		desc. node	1992 Jul 05 09:21	9° \mathbb{L} 40'19	
evening set	1991 Aug 15 00:23	3° \mathbb{M} 43'09		evening max el	1992 Jul 06 01:01	10° \mathbb{L} 18'17	26°05'08
min. Earth dist.	1991 Aug 18 16:28	1° \mathbb{M} 01'55	0.61092 AU	retrograde	1992 Jul 20 00:54	17° \mathbb{L} 28'32	
	1991 Aug 19 21:40	30° \mathbb{R} \mathbb{L}		evening set	1992 Jul 26 08:47	15° \mathbb{L} 51'24	
inferior conj	1991 Aug 21 20:42	28° \mathbb{L} 17'37	-4°25'29	min. Earth dist.	1992 Jul 30 13:37	13° \mathbb{L} 14'46	0.59030 AU
minimum elong	1991 Aug 22 01:37	28° \mathbb{L} 06'58	4°24'34	inferior conj	1992 Aug 02 20:43	10° \mathbb{L} 46'48	-4°54'14
morning rise	1991 Aug 29 04:33	23° \mathbb{L} 26'42		minimum elong	1992 Aug 02 23:00	10° \mathbb{L} 42'29	4°54'04
direct	1991 Aug 31 14:35	23° \mathbb{L} 03'06		morning rise	1992 Aug 10 15:24	6° \mathbb{L} 18'49	
asc. node	1991 Sep 07 04:22	26° \mathbb{L} 04'23		direct	1992 Aug 13 02:53	5° \mathbb{L} 58'04	
morning max el	1991 Sep 07 17:43	26° \mathbb{L} 35'43	18°00'41	morning max el	1992 Aug 21 01:54	9° \mathbb{L} 46'50	18°29'50
	1991 Sep 10 17:14	0° \mathbb{M}		asc. node	1992 Aug 24 01:24	13° \mathbb{L} 05'55	
morning set	1991 Sep 23 13:56	21° \mathbb{M} 35'59			1992 Sep 03 08:03	0° \mathbb{M}	
	1991 Sep 28 03:26	0° \mathbb{L}		morning set	1992 Sep 06 05:04	5° \mathbb{M} 29'37	
superior conj	1991 Oct 03 16:40	9° \mathbb{L} 58'21	1°14'51	superior conj	1992 Sep 15 03:48	22° \mathbb{M} 33'21	1°34'52
minimum elong	1991 Oct 03 21:06	10° \mathbb{L} 17'53	1°14'21	minimum elong	1992 Sep 15 06:48	22° \mathbb{M} 47'17	1°34'38
max. Earth dist.	1991 Oct 11 06:46	22° \mathbb{L} 57'40	1.42091 AU		1992 Sep 19 05:41	0° \mathbb{L}	
				max. Earth dist.	1992 Sep 22 13:15	5° \mathbb{L} 50'56	1.40126 AU

evening rise	1992 Sep 26 20:16	13° Ω 09'18		max. Earth dist.	1993 Sep 04 16:54	18° Π 03'08	1.38070 AU
desc. node	1992 Oct 01 08:43	20° Ω 32'28		evening rise	1993 Sep 08 11:22	24° Π 49'02	
	1992 Oct 07 10:13	0° Π			1993 Sep 11 11:18	0° Ω	
	1992 Oct 29 17:02	0° \mathcal{A}		desc. node	1993 Sep 18 05:44	11° Ω 05'40	
evening max el	1992 Oct 31 16:08	2° \mathcal{A} 02'50	23°42'50		1993 Oct 01 02:09	0° Π	
retrograde	1992 Nov 11 09:49	8° \mathcal{A} 22'49		evening max el	1993 Oct 14 04:14	15° Π 40'57	25°00'20
evening set	1992 Nov 16 12:33	6° \mathcal{A} 15'16		retrograde	1993 Oct 25 22:40	22° Π 30'42	
asc. node	1992 Nov 20 00:38	2° \mathcal{A} 24'33		evening set	1993 Oct 31 15:31	20° Π 07'02	
inferior conj	1992 Nov 21 22:09	29° Π 51'43	0°38'52	min. Earth dist.	1993 Nov 05 04:07	15° Π 01'14	0.67325 AU
minimum elong	1992 Nov 21 21:15	29° Π 54'49	0°38'29	inferior conj	1993 Nov 06 03:33	13° Π 44'13	-0°15'37
min. Earth dist.	1992 Nov 21 09:22	0° \mathcal{A} 35'19	0.67742 AU	minimum elong	1993 Nov 06 03:57	13° Π 42'56	0°15'27
	1992 Nov 21 19:44	30° $\mathcal{R}\Pi$		transit middle	1993 Nov 06 03:57	13° Π 42'56	0°15'27
morning rise	1992 Nov 27 05:56	23° Π 45'19		transit begin	1993 Nov 06 03:06	13° Π 45'42	
direct	1992 Dec 01 07:30	22° Π 12'18		transit end	1993 Nov 06 04:47	13° Π 40'09	
morning max el	1992 Dec 09 14:03	26° Π 59'45	20°53'23	asc. node	1993 Nov 06 21:40	12° Π 45'00	
	1992 Dec 12 08:05	0° \mathcal{A}		morning rise	1993 Nov 11 16:32	7° Π 44'25	
desc. node	1992 Dec 28 07:58	22° \mathcal{A} 02'21		direct	1993 Nov 15 05:39	6° Π 31'53	
	1993 Jan 02 14:47	0° \mathcal{B}		morning max el	1993 Nov 22 15:31	10° Π 44'24	19°45'06
morning set	1993 Jan 08 08:34	8° \mathcal{B} 51'10		greatest brilliancy	1993 Dec 05 23:27	28° Π 24'28	-0.7m
max. Earth dist.	1993 Jan 16 18:04	22° \mathcal{B} 13'11	1.42821 AU		1993 Dec 07 01:04	0° \mathcal{A}	
	1993 Jan 21 11:25	0° \approx		desc. node	1993 Dec 15 05:01	12° \mathcal{A} 24'39	
				morning set	1993 Dec 18 04:52	17° \mathcal{A} 01'23	
superior conj	1993 Jan 23 15:42	3° \approx 39'38	-2°04'01		1993 Dec 26 12:47	0° \mathcal{B}	
minimum elong	1993 Jan 23 13:54	3° \approx 32'02	2°03'59	max. Earth dist.	1993 Dec 30 05:29	5° \mathcal{B} 50'31	1.44252 AU
evening rise	1993 Feb 04 10:29	24° \approx 13'13					
	1993 Feb 07 16:19	0° \mathcal{H}		superior conj	1994 Jan 03 20:20	13° \mathcal{B} 14'21	-1°48'59
asc. node	1993 Feb 15 23:57	13° \mathcal{H} 58'36		minimum elong	1994 Jan 03 13:11	12° \mathcal{B} 45'28	1°48'28
evening max el	1993 Feb 21 08:47	20° \mathcal{H} 49'01	18°07'16		1994 Jan 14 00:25	0° \approx	
retrograde	1993 Feb 27 22:54	24° \mathcal{H} 12'58		evening rise	1994 Jan 17 10:31	5° \approx 46'41	
evening set	1993 Mar 02 16:15	23° \mathcal{H} 37'54			1994 Feb 01 10:28	0° \mathcal{H}	
inferior conj	1993 Mar 09 04:01	18° \mathcal{H} 35'47	3°36'17	asc. node	1994 Feb 02 21:00	1° \mathcal{H} 50'59	
minimum elong	1993 Mar 09 05:34	18° \mathcal{H} 31'56	3°36'10	evening max el	1994 Feb 04 21:23	4° \mathcal{H} 06'23	18°16'24
min. Earth dist.	1993 Mar 12 05:38	15° \mathcal{H} 34'41	0.61545 AU	retrograde	1994 Feb 11 08:30	7° \mathcal{H} 34'40	
morning rise	1993 Mar 15 17:20	12° \mathcal{H} 40'49		evening set	1994 Feb 14 07:01	6° \mathcal{H} 48'52	
direct	1993 Mar 22 13:44	10° \mathcal{H} 17'30		inferior conj	1994 Feb 20 08:01	1° \mathcal{H} 27'20	3°43'22
desc. node	1993 Mar 26 07:08	10° \mathcal{H} 56'14		minimum elong	1994 Feb 20 07:40	1° \mathcal{H} 28'19	3°43'22
morning max el	1993 Apr 05 17:40	18° \mathcal{H} 12'05	27°47'55		1994 Feb 21 15:15	30° $\mathcal{R}\approx$	
	1993 Apr 15 15:18	0° \mathcal{Y}		min. Earth dist.	1994 Feb 22 19:38	28° \approx 42'07	0.63520 AU
	1993 May 03 21:54	0° \mathcal{B}		morning rise	1994 Feb 26 07:28	25° \approx 22'36	
morning set	1993 May 08 18:02	9° \mathcal{B} 34'53		direct	1994 Mar 05 05:49	22° \approx 37'32	
max. Earth dist.	1993 May 14 15:52	22° \mathcal{B} 05'00	1.32395 AU	desc. node	1994 Mar 13 04:12	25° \approx 32'53	
asc. node	1993 May 14 23:14	22° \mathcal{B} 44'58			1994 Mar 18 12:03	0° \mathcal{H}	
				morning max el	1994 Mar 19 01:27	0° \mathcal{H} 33'02	27°41'07
superior conj	1993 May 16 02:51	25° \mathcal{B} 15'25	0°12'08		1994 Apr 09 16:30	0° \mathcal{Y}	
minimum elong	1993 May 16 02:17	25° \mathcal{B} 12'21	0°12'01	morning set	1994 Apr 22 15:50	23° \mathcal{Y} 41'04	
behind sun begin	1993 May 15 22:56	24° \mathcal{B} 54'00			1994 Apr 25 18:27	0° \mathcal{B}	
behind sun end	1993 May 16 05:39	25° \mathcal{B} 30'41		max. Earth dist.	1994 Apr 27 20:30	4° \mathcal{B} 21'24	1.33016 AU
	1993 May 18 06:53	0° Π					
evening rise	1993 May 23 00:25	10° Π 14'10		superior conj	1994 Apr 30 10:21	9° \mathcal{B} 50'43	-0°14'52
	1993 Jun 02 03:54	0° \mathcal{E}		minimum elong	1994 Apr 30 11:04	9° \mathcal{B} 54'38	0°14'43
evening max el	1993 Jun 17 16:59	21° \mathcal{E} 11'45	24°42'44	behind sun begin	1994 Apr 30 09:01	9° \mathcal{B} 43'38	
desc. node	1993 Jun 22 06:22	24° \mathcal{E} 57'19		behind sun end	1994 Apr 30 13:07	10° \mathcal{B} 05'37	
retrograde	1993 Jul 01 15:29	28° \mathcal{E} 15'26		asc. node	1994 May 01 20:17	12° \mathcal{B} 53'25	
evening set	1993 Jul 06 17:33	27° \mathcal{E} 16'54		evening rise	1994 May 07 12:12	25° \mathcal{B} 03'26	
min. Earth dist.	1993 Jul 12 04:11	24° \mathcal{E} 26'30	0.57089 AU		1994 May 09 21:08	0° Π	
inferior conj	1993 Jul 15 01:08	22° \mathcal{E} 34'22	-4°53'00		1994 May 28 14:52	0° \mathcal{E}	
minimum elong	1993 Jul 14 22:26	22° \mathcal{E} 38'48	4°52'48	evening max el	1994 May 30 06:47	1° \mathcal{E} 41'51	23°07'29
morning rise	1993 Jul 23 06:01	18° \mathcal{E} 28'03		desc. node	1994 Jun 09 03:24	7° \mathcal{E} 55'08	
direct	1993 Jul 25 20:50	18° \mathcal{E} 08'52		retrograde	1994 Jun 12 17:49	8° \mathcal{E} 24'40	
morning max el	1993 Aug 04 01:36	22° \mathcal{E} 26'12	19°20'06	evening set	1994 Jun 16 07:43	7° \mathcal{E} 56'34	
	1993 Aug 10 05:51	0° \mathcal{Q}		min. Earth dist.	1994 Jun 23 16:14	4° \mathcal{E} 38'12	0.55614 AU
asc. node	1993 Aug 10 22:27	1° \mathcal{Q} 03'07		inferior conj	1994 Jun 25 09:57	3° \mathcal{E} 37'20	-4°08'03
morning set	1993 Aug 21 05:02	19° \mathcal{Q} 49'32		minimum elong	1994 Jun 25 02:38	3° \mathcal{E} 48'02	4°06'30
	1993 Aug 26 07:06	0° Π			1994 Jul 02 23:18	30° $\mathcal{R}\Pi$	
				morning rise	1994 Jul 04 00:06	29° Π 44'05	
superior conj	1993 Aug 29 08:12	6° Π 00'20	1°44'21	direct	1994 Jul 06 19:43	29° Π 25'06	
minimum elong	1993 Aug 29 09:17	6° Π 05'40	1°44'18		1994 Jul 10 12:41	0° \mathcal{E}	

morning max el	1994 Jul 17 14:24	4°☿24'40	20°31'29		1995 Jul 10 16:58	0°☿	
asc. node	1994 Jul 28 19:31	19°☿42'35		asc. node	1995 Jul 15 16:36	8°☿54'03	
	1994 Aug 03 06:09	0°♊		morning set	1995 Jul 20 20:38	19°☿16'56	
morning set	1994 Aug 05 10:58	4°♊27'16			1995 Jul 25 22:19	0°♊	
superior conj	1994 Aug 13 00:54	20°♊04'12	1°45'10	superior conj	1995 Jul 28 02:09	4°♊33'52	1°39'00
minimum elong	1994 Aug 13 00:20	20°♊01'19	1°45'09	minimum elong	1995 Jul 28 00:26	4°♊24'51	1°38'53
max. Earth dist.	1994 Aug 17 23:27	29°♊53'49	1.36173 AU	max. Earth dist.	1995 Jul 31 14:14	11°♊50'02	1.34602 AU
	1994 Aug 18 00:44	0°♋		evening rise	1995 Aug 05 04:06	20°♊56'36	
evening rise	1994 Aug 21 23:31	7°♋28'50			1995 Aug 10 00:13	0°♋	
	1994 Sep 04 04:55	0°♌		desc. node	1995 Aug 22 23:44	21°♋23'00	
desc. node	1994 Sep 05 02:44	1°♌24'42			1995 Aug 29 02:07	0°♌	
evening max el	1994 Sep 26 16:12	29°♌20'19	26°08'07	evening max el	1995 Sep 09 04:35	12°♌54'24	26°58'23
	1994 Sep 27 08:51	0°♍		retrograde	1995 Sep 22 09:15	20°♌11'06	
retrograde	1994 Oct 09 06:44	6°♍28'57		evening set	1995 Sep 29 04:20	17°♌27'55	
evening set	1994 Oct 15 13:32	3°♍52'31		min. Earth dist.	1995 Oct 03 02:39	13°♌34'14	0.65473 AU
	1994 Oct 19 06:19	30°♎		inferior conj	1995 Oct 05 01:17	11°♌20'13	-2°11'31
min. Earth dist.	1994 Oct 19 18:41	29°♌22'23	0.66571 AU	minimum elong	1995 Oct 05 04:48	11°♌10'06	2°10'10
inferior conj	1994 Oct 21 05:17	27°♌34'57	-1°13'00	morning rise	1995 Oct 11 05:59	5°♌42'06	
minimum elong	1994 Oct 21 07:12	27°♌28'59	1°12'11	asc. node	1995 Oct 11 15:49	5°♌30'38	
asc. node	1994 Oct 24 18:44	23°♌31'31		direct	1995 Oct 14 00:47	4°♌59'46	
morning rise	1994 Oct 27 01:18	21°♌44'26		morning max el	1995 Oct 20 13:43	8°♌32'16	18°14'39
direct	1994 Oct 30 04:05	20°♌48'54			1995 Nov 04 08:50	0°♍	
morning max el	1994 Nov 06 00:05	24°♌36'45	18°51'42	morning set	1995 Nov 08 08:55	6°♍32'55	
	1994 Nov 10 12:46	0°♎		desc. node	1995 Nov 18 23:03	23°♍40'04	
morning set	1994 Nov 27 16:38	26°♎03'56			1995 Nov 22 22:46	0°♏	
	1994 Nov 30 04:38	0°♐		superior conj	1995 Nov 23 05:26	0°♏26'18	-0°28'20
desc. node	1994 Dec 02 02:04	2°♐58'32		minimum elong	1995 Nov 23 01:46	0°♏11'51	0°27'50
max. Earth dist.	1994 Dec 12 22:02	19°♐58'53	1.45030 AU	max. Earth dist.	1995 Nov 25 17:06	4°♏21'27	1.45079 AU
superior conj	1994 Dec 14 03:16	21°♐53'50	-1°15'04	evening rise	1995 Dec 09 14:13	26°♏03'18	
minimum elong	1994 Dec 13 18:44	21°♐20'15	1°14'07		1995 Dec 12 02:57	0°♑	
	1994 Dec 19 06:26	0°♒		greatest brilliancy	1995 Dec 21 10:04	14°♑22'33	-0.7m
evening rise	1994 Dec 29 11:50	16°♒22'18			1996 Jan 01 18:06	0°♒	
	1995 Jan 06 22:17	0°♓		evening max el	1996 Jan 02 16:45	1°♓00'39	19°28'16
evening max el	1995 Jan 19 08:48	17°♓31'56	18°43'52	asc. node	1996 Jan 07 15:05	4°♓41'41	
asc. node	1995 Jan 20 18:02	18°♓50'16		retrograde	1996 Jan 09 21:51	5°♓10'09	
retrograde	1995 Jan 26 01:16	21°♓15'53		evening set	1996 Jan 13 09:13	3°♓59'32	
evening set	1995 Jan 29 05:34	20°♓18'21			1996 Jan 17 09:37	30°♒	
inferior conj	1995 Feb 03 23:00	14°♓39'10	3°33'03	inferior conj	1996 Jan 18 21:40	28°♒04'52	3°09'46
minimum elong	1995 Feb 03 21:17	14°♓44'26	3°32'49	minimum elong	1996 Jan 18 19:12	28°♒12'53	3°09'14
min. Earth dist.	1995 Feb 05 19:05	12°♓25'06	0.65163 AU	min. Earth dist.	1996 Jan 20 02:53	26°♒29'46	0.66409 AU
morning rise	1995 Feb 09 12:33	8°♓29'19		morning rise	1996 Jan 24 04:57	21°♒52'29	
direct	1995 Feb 16 05:06	5°♓37'16		direct	1996 Jan 30 10:17	19°♒06'49	
desc. node	1995 Feb 28 01:16	12°♓00'37		morning max el	1996 Feb 11 20:23	26°♒29'14	25°54'45
morning max el	1995 Mar 01 11:07	13°♓22'58	27°00'53	desc. node	1996 Feb 14 22:18	29°♒47'25	
	1995 Mar 14 21:35	0°♈			1996 Feb 15 02:44	0°♈	
	1995 Apr 02 07:29	0°♉			1996 Mar 07 11:53	0°♈	
morning set	1995 Apr 06 03:56	7°♉14'39		morning set	1996 Mar 19 02:04	20°♈02'10	
max. Earth dist.	1995 Apr 10 15:28	16°♉05'54	1.34086 AU	max. Earth dist.	1996 Mar 22 22:51	27°♈19'14	1.35617 AU
					1996 Mar 24 08:03	0°♊	
superior conj	1995 Apr 14 12:49	24°♉06'42	-0°42'47	superior conj	1996 Mar 28 07:37	7°♉54'46	-1°10'15
minimum elong	1995 Apr 14 14:58	24°♉18'01	0°42'21	minimum elong	1996 Mar 28 11:06	8°♉12'24	1°09'40
	1995 Apr 17 07:54	0°♊		asc. node	1996 Apr 04 14:23	22°♉50'59	
asc. node	1995 Apr 18 17:21	2°♊57'06		evening rise	1996 Apr 05 05:23	24°♉07'49	
evening rise	1995 Apr 21 22:34	9°♊43'48			1996 Apr 08 03:16	0°♋	
	1995 May 02 15:18	0°♌		evening max el	1996 Apr 23 07:48	23°♋30'05	20°14'26
evening max el	1995 May 12 02:02	12°♌20'27	21°34'23	retrograde	1996 May 03 22:40	28°♋38'36	
retrograde	1995 May 24 09:02	18°♌21'42		evening set	1996 May 05 23:34	28°♋28'04	
evening set	1995 May 26 19:47	18°♌08'08		desc. node	1996 May 12 21:29	25°♋44'23	
desc. node	1995 May 27 00:26	18°♌05'57		inferior conj	1996 May 15 01:12	24°♋29'35	-0°37'44
inferior conj	1995 Jun 05 05:38	14°♌07'10	-2°36'15	minimum elong	1996 May 14 23:27	24°♋32'12	0°37'05
minimum elong	1995 Jun 04 22:43	14°♌16'51	2°33'59	min. Earth dist.	1996 May 16 17:12	23°♋30'38	0.55204 AU
min. Earth dist.	1995 Jun 05 04:17	14°♌09'03	0.54932 AU	morning rise	1996 May 23 21:50	20°♌11'40	
morning rise	1995 Jun 14 02:28	10°♌11'00		direct	1996 May 27 19:02	19°♌38'56	
direct	1995 Jun 17 06:58	9°♌48'46		morning max el	1996 Jun 10 08:52	26°♌17'48	23°42'27
morning max el	1995 Jun 29 15:53	15°♌39'11	22°01'20				

	1996 Jun 13 21:45	0°♊			1997 May 12 10:25	0°♋	
asc. node	1996 Jul 01 13:39	28°♊28'30		morning max el	1997 May 22 23:18	6°♋44'24	25°21'46
	1996 Jul 02 07:37	0°♋			1997 Jun 08 23:25	0°♊	
morning set	1996 Jul 04 08:10	4°♋12'20		asc. node	1997 Jun 18 10:40	18°♊19'27	
				morning set	1997 Jun 18 19:55	19°♊08'09	
					1997 Jun 23 20:41	0°♋	
superior conj	1996 Jul 11 09:01	19°♋19'51	1°27'11				
minimum elong	1996 Jul 11 06:42	19°♋07'25	1°26'55				
max. Earth dist.	1996 Jul 13 14:20	24°♋05'24	1.33415 AU	superior conj	1997 Jun 25 19:14	4°♋14'52	1°10'42
	1996 Jul 16 09:56	0°♌		minimum elong	1997 Jun 25 16:51	4°♋01'51	1°10'19
evening rise	1996 Jul 18 20:42	4°♌59'26		max. Earth dist.	1997 Jun 26 21:48	6°♋39'59	1.32628 AU
	1996 Aug 01 16:17	0°♍		evening rise	1997 Jul 02 21:49	19°♋26'50	
desc. node	1996 Aug 08 20:46	10°♍51'39			1997 Jul 08 05:28	0°♌	
evening max el	1996 Aug 21 16:09	26°♍11'36	27°23'59	desc. node	1997 Jul 26 17:48	29°♌37'49	
	1996 Aug 26 05:17	0°♎			1997 Jul 27 00:42	0°♍	
retrograde	1996 Sep 04 05:47	3°♎29'21		evening max el	1997 Aug 04 00:30	8°♍57'55	27°19'11
evening set	1996 Sep 11 09:10	0°♎48'29		retrograde	1997 Aug 17 19:49	16°♍13'53	
	1996 Sep 12 09:32	30°♎		evening set	1997 Aug 25 00:21	13°♍47'29	
min. Earth dist.	1996 Sep 15 01:44	27°♎29'32	0.64019 AU	min. Earth dist.	1997 Aug 28 14:27	10°♍56'22	0.62233 AU
inferior conj	1996 Sep 17 13:05	24°♎54'47	-3°08'39	inferior conj	1997 Aug 31 13:43	8°♎11'01	-4°00'30
minimum elong	1996 Sep 17 17:56	24°♎42'07	3°07'04	minimum elong	1997 Aug 31 19:04	7°♎58'34	3°59'11
morning rise	1996 Sep 24 03:48	19°♎32'36		morning rise	1997 Sep 07 15:17	3°♎08'10	
direct	1996 Sep 26 17:08	18°♎59'53		direct	1997 Sep 10 01:42	2°♎42'03	
asc. node	1996 Sep 27 12:51	19°♎03'19		asc. node	1997 Sep 14 09:53	4°♎07'33	
morning max el	1996 Oct 03 05:48	22°♎25'39	17°54'51	morning max el	1997 Sep 16 21:19	6°♎09'27	17°53'08
	1996 Oct 09 03:13	0°♏			1997 Oct 02 05:38	0°♎	
morning set	1996 Oct 20 04:39	18°♏22'09		morning set	1997 Oct 02 21:40	1°♏12'06	
	1996 Oct 27 01:01	0°♐					
				superior conj	1997 Oct 13 21:02	20°♏33'34	0°57'56
superior conj	1996 Nov 01 23:55	9°♐50'26	0°19'09	minimum elong	1997 Oct 14 01:33	20°♏52'48	0°57'22
minimum elong	1996 Nov 02 02:02	9°♐59'02	0°18'52		1997 Oct 19 12:08	0°♐	
desc. node	1996 Nov 04 20:04	14°♐26'15		max. Earth dist.	1997 Oct 21 02:03	2°♐35'12	1.43073 AU
max. Earth dist.	1996 Nov 07 11:35	18°♐40'23	1.44396 AU	desc. node	1997 Oct 22 17:05	5°♐13'27	
	1996 Nov 14 16:36	0°♑		evening rise	1997 Oct 28 11:11	14°♐21'27	
evening rise	1996 Nov 18 00:56	5°♑10'32			1997 Nov 07 17:42	0°♑	
	1996 Dec 04 13:48	0°♒		evening max el	1997 Nov 28 16:50	28°♑00'40	21°38'24
evening max el	1996 Dec 15 19:40	14°♒30'32	20°27'26		1997 Nov 30 19:11	0°♒	
retrograde	1996 Dec 23 19:46	19°♒13'33		retrograde	1997 Dec 07 16:56	3°♒22'11	
asc. node	1996 Dec 24 12:07	19°♒10'57		asc. node	1997 Dec 11 09:09	2°♒07'52	
evening set	1996 Dec 27 15:48	17°♒48'29		evening set	1997 Dec 11 23:28	1°♒41'21	
inferior conj	1997 Jan 02 01:22	11°♒41'04	2°36'35		1997 Dec 13 18:06	30°♒	
minimum elong	1997 Jan 01 22:44	11°♒49'59	2°35'49	inferior conj	1997 Dec 17 07:54	25°♒24'34	1°55'37
min. Earth dist.	1997 Jan 02 17:17	10°♒46'58	0.67252 AU	minimum elong	1997 Dec 17 05:37	25°♒32'28	1°54'48
morning rise	1997 Jan 07 05:30	5°♒27'51		min. Earth dist.	1997 Dec 17 12:01	25°♒10'17	0.67716 AU
direct	1997 Jan 12 20:41	2°♒58'06		morning rise	1997 Dec 22 11:36	19°♒12'14	
morning max el	1997 Jan 24 04:54	9°♒44'01	24°32'21	direct	1997 Dec 27 11:41	17°♒03'34	
desc. node	1997 Jan 31 19:19	18°♒30'37		morning max el	1998 Jan 06 14:17	23°♒03'39	23°03'48
	1997 Feb 09 05:53	0°♓			1998 Jan 12 16:20	0°♒	
	1997 Feb 28 03:54	0°♈		desc. node	1998 Jan 18 16:20	7°♒53'48	
morning set	1997 Mar 01 04:52	1°♈48'55			1998 Feb 02 15:15	0°♓	
max. Earth dist.	1997 Mar 04 20:54	8°♈22'13	1.37540 AU	morning set	1998 Feb 10 06:03	12°♓18'37	
				max. Earth dist.	1998 Feb 14 15:48	19°♓46'56	1.39675 AU
					1998 Feb 20 10:22	0°♈	
superior conj	1997 Mar 11 15:34	21°♈06'21	-1°35'12				
minimum elong	1997 Mar 11 19:50	21°♈27'01	1°34'40				
	1997 Mar 16 04:13	0°♉		superior conj	1998 Feb 22 08:29	3°♈30'35	-1°54'40
evening rise	1997 Mar 20 06:21	8°♉08'53		minimum elong	1998 Feb 22 12:13	3°♈47'49	1°54'25
asc. node	1997 Mar 22 11:25	12°♉30'30		evening rise	1998 Mar 03 22:33	21°♈39'00	
	1997 Apr 01 13:45	0°♊			1998 Mar 08 08:28	0°♉	
evening max el	1997 Apr 06 01:07	5°♊19'12	19°13'06	asc. node	1998 Mar 09 08:27	1°♉49'58	
retrograde	1997 Apr 15 00:01	9°♊39'20		evening max el	1998 Mar 20 03:55	17°♉44'05	18°31'57
evening set	1997 Apr 17 02:46	9°♊25'52		retrograde	1998 Mar 27 19:42	21°♉29'40	
inferior conj	1997 Apr 25 10:32	5°♊15'28	1°13'12	evening set	1998 Mar 30 04:12	21°♉09'30	
minimum elong	1997 Apr 25 13:21	5°♊10'43	1°12'15	inferior conj	1998 Apr 06 16:35	16°♉40'28	2°34'16
min. Earth dist.	1997 Apr 28 08:06	3°♊19'02	0.56373 AU	minimum elong	1998 Apr 06 20:34	16°♉32'36	2°33'15
desc. node	1997 Apr 29 18:31	2°♊25'11		min. Earth dist.	1998 Apr 10 02:41	14°♉00'08	0.58188 AU
morning rise	1997 May 03 20:59	0°♋23'30		morning rise	1998 Apr 14 09:56	11°♉16'30	
	1997 May 05 01:48	30°♋		desc. node	1998 Apr 16 15:31	10°♉22'07	
direct	1997 May 08 18:05	29°♉28'28		direct	1998 Apr 20 07:31	9°♉47'28	

morning max el	1998 May 04 16:45	17° Υ 26'47	26°43'35		1999 Apr 17 22:09	0° Υ	
	1998 May 15 02:10	0° \mathcal{B}			1999 May 08 21:22	0° \mathcal{B}	
	1998 Jun 01 08:07	0° Π		morning set	1999 May 18 13:26	18° \mathcal{B} 37'54	
morning set	1998 Jun 03 06:16	3° Π 59'05		asc. node	1999 May 23 04:44	28° \mathcal{B} 29'33	
asc. node	1998 Jun 05 07:42	8° Π 21'40			1999 May 23 21:22	0° Π	
				max. Earth dist.	1999 May 24 21:14	2° Π 10'25	1.32218 AU
superior conj	1998 Jun 10 06:57	19° Π 12'46	0°50'23				
minimum elong	1998 Jun 10 04:58	19° Π 01'50	0°49'59	superior conj	1999 May 25 18:22	4° Π 06'18	0°26'52
max. Earth dist.	1998 Jun 10 09:20	19° Π 25'55	1.32229 AU	minimum elong	1999 May 25 17:11	3° Π 59'49	0°26'36
	1998 Jun 15 05:33	0° \mathcal{E}		evening rise	1999 Jun 01 14:58	19° Π 01'21	
evening rise	1998 Jun 17 04:42	4° \mathcal{E} 10'24			1999 Jun 07 00:18	0° \mathcal{E}	
	1998 Jun 30 23:52	0° Ω			1999 Jun 26 15:39	0° Ω	
desc. node	1998 Jul 13 14:49	17° Ω 24'07		evening max el	1999 Jun 28 23:06	2° Ω 20'59	25°32'45
evening max el	1998 Jul 17 03:17	21° Ω 02'47	26°41'17	desc. node	1999 Jun 30 11:51	3° Ω 44'50	
retrograde	1998 Jul 31 02:28	28° Ω 16'03		retrograde	1999 Jul 12 23:33	9° Ω 29'25	
evening set	1998 Aug 06 21:27	26° Ω 17'49		evening set	1999 Jul 18 19:54	8° Ω 09'09	
min. Earth dist.	1998 Aug 10 17:01	23° Ω 40'51	0.60217 AU	min. Earth dist.	1999 Jul 23 11:15	5° Ω 28'26	0.58171 AU
inferior conj	1998 Aug 13 23:47	21° Ω 00'43	-4°40'28	inferior conj	1999 Jul 26 15:48	3° Ω 13'30	-4°58'15
minimum elong	1998 Aug 14 03:55	20° Ω 52'17	4°39'54	minimum elong	1999 Jul 26 16:11	3° Ω 12'49	4°58'15
morning rise	1998 Aug 21 12:22	16° Ω 19'44			1999 Jul 31 18:44	30° $\mathcal{R}\mathcal{E}$	
direct	1998 Aug 23 22:35	15° Ω 57'42		morning rise	1999 Aug 03 14:53	28° \mathcal{E} 54'54	
morning max el	1998 Aug 31 09:12	19° Ω 35'56	18°10'34	direct	1999 Aug 06 03:27	28° \mathcal{E} 35'02	
asc. node	1998 Sep 01 06:54	20° Ω 31'05			1999 Aug 11 04:25	0° Ω	
	1998 Sep 08 01:58	0° \mathcal{M}		morning max el	1999 Aug 14 14:09	2° Ω 34'48	18°48'29
morning set	1998 Sep 16 06:08	14° \mathcal{M} 46'35		asc. node	1999 Aug 19 03:57	7° Ω 58'00	
	1998 Sep 24 10:13	0° $\underline{\Omega}$		morning set	1999 Aug 31 01:27	28° Ω 52'25	
					1999 Aug 31 15:15	0° \mathcal{M}	
superior conj	1998 Sep 25 19:50	2° $\underline{\Omega}$ 32'22	1°24'44				
minimum elong	1998 Sep 25 23:48	2° $\underline{\Omega}$ 50'13	1°24'20	superior conj	1999 Sep 08 14:58	15° \mathcal{M} 31'04	1°40'03
max. Earth dist.	1998 Oct 03 10:47	15° $\underline{\Omega}$ 51'16	1.41282 AU	minimum elong	1999 Sep 08 17:09	15° \mathcal{M} 41'29	1°39'55
evening rise	1998 Oct 08 13:07	24° $\underline{\Omega}$ 17'34		max. Earth dist.	1999 Sep 15 15:20	28° \mathcal{M} 24'44	1.39253 AU
desc. node	1998 Oct 09 14:07	25° $\underline{\Omega}$ 58'33			1999 Sep 16 12:53	0° $\underline{\Omega}$	
	1998 Oct 12 02:44	0° \mathcal{M}		evening rise	1999 Sep 19 14:32	5° $\underline{\Omega}$ 18'55	
	1998 Nov 01 16:02	0° \mathcal{J}		desc. node	1999 Sep 26 11:10	16° $\underline{\Omega}$ 37'17	
evening max el	1998 Nov 11 09:04	11° \mathcal{J} 33'18	22°56'42		1999 Oct 05 05:12	0° \mathcal{M}	
retrograde	1998 Nov 21 11:46	17° \mathcal{J} 33'23		evening max el	1999 Oct 24 22:15	25° \mathcal{M} 10'01	24°16'35
evening set	1998 Nov 26 06:35	15° \mathcal{J} 35'52			1999 Oct 30 20:08	0° \mathcal{J}	
asc. node	1998 Nov 28 06:10	13° \mathcal{J} 37'39		retrograde	1999 Nov 05 02:59	1° \mathcal{J} 43'35	
inferior conj	1998 Dec 01 15:23	9° \mathcal{J} 13'34	1°08'24		1999 Nov 09 20:13	30° $\mathcal{R}\mathcal{M}$	
minimum elong	1998 Dec 01 13:52	9° \mathcal{J} 18'48	1°07'47	evening set	1999 Nov 10 11:34	29° \mathcal{M} 29'14	
min. Earth dist.	1998 Dec 01 08:42	9° \mathcal{J} 36'37	0.67831 AU	min. Earth dist.	1999 Nov 15 04:53	24° \mathcal{M} 03'26	0.67607 AU
morning rise	1998 Dec 06 21:02	3° \mathcal{J} 04'07		asc. node	1999 Nov 15 03:12	24° \mathcal{M} 09'05	
direct	1998 Dec 11 06:29	1° \mathcal{J} 18'12		inferior conj	1999 Nov 15 22:05	23° \mathcal{M} 05'35	0°16'14
morning max el	1998 Dec 20 03:54	6° \mathcal{J} 30'44	21°38'15	minimum elong	1999 Nov 15 21:41	23° \mathcal{M} 06'54	0°16'03
desc. node	1999 Jan 05 13:22	27° \mathcal{J} 46'02		transit middle	1999 Nov 15 21:41	23° \mathcal{M} 06'54	0°16'03
	1999 Jan 07 02:04	0° \mathcal{Z}		transit begin	1999 Nov 15 21:15	23° \mathcal{M} 08'22	
morning set	1999 Jan 21 02:03	21° \mathcal{Z} 24'59		transit end	1999 Nov 15 22:07	23° \mathcal{M} 05'27	
	1999 Jan 26 09:32	0° \approx		morning rise	1999 Nov 21 07:48	17° \mathcal{M} 01'28	
max. Earth dist.	1999 Jan 27 15:03	2° \approx 01'45	1.41760 AU	direct	1999 Nov 25 03:55	15° \mathcal{M} 37'19	
				morning max el	1999 Dec 03 00:43	20° \mathcal{M} 08'36	20°22'32
superior conj	1999 Feb 04 05:20	14° \approx 55'54	-2°04'35		1999 Dec 11 02:09	0° \mathcal{J}	
minimum elong	1999 Feb 04 06:18	15° \approx 00'07	2°04'35	desc. node	1999 Dec 23 10:25	17° \mathcal{J} 59'18	
	1999 Feb 12 15:28	0° \mathcal{H}		morning set	1999 Dec 31 00:45	29° \mathcal{J} 36'34	
evening rise	1999 Feb 15 02:25	4° \mathcal{H} 30'01			1999 Dec 31 06:48	0° \mathcal{Z}	
asc. node	1999 Feb 24 05:29	20° \mathcal{H} 42'29		max. Earth dist.	2000 Jan 09 22:33	15° \mathcal{Z} 13'52	1.43503 AU
	1999 Mar 02 22:50	0° Υ					
evening max el	1999 Mar 03 13:01	0° Υ 36'04	18°10'44	superior conj	2000 Jan 16 01:19	25° \mathcal{Z} 12'16	-1°59'58
retrograde	1999 Mar 10 09:11	4° Υ 03'15		minimum elong	2000 Jan 15 21:09	24° \mathcal{Z} 55'01	1°59'47
evening set	1999 Mar 12 23:34	3° Υ 33'58			2000 Jan 18 22:20	0° \approx	
	1999 Mar 18 09:23	30° $\mathcal{R}\mathcal{H}$		evening rise	2000 Jan 28 13:52	16° \approx 34'14	
inferior conj	1999 Mar 19 19:14	28° \mathcal{H} 44'06	3°21'55		2000 Feb 05 08:09	0° \mathcal{H}	
minimum elong	1999 Mar 19 21:56	28° \mathcal{H} 37'55	3°21'32	asc. node	2000 Feb 11 02:32	9° \mathcal{H} 00'00	
min. Earth dist.	1999 Mar 23 02:57	25° \mathcal{H} 43'10	0.60315 AU	evening max el	2000 Feb 15 01:15	13° \mathcal{H} 46'50	18°08'55
morning rise	1999 Mar 26 18:10	22° \mathcal{H} 57'58		retrograde	2000 Feb 21 12:46	17° \mathcal{H} 10'42	
direct	1999 Apr 02 09:19	20° \mathcal{H} 52'17		evening set	2000 Feb 24 08:26	16° \mathcal{H} 31'03	
desc. node	1999 Apr 03 12:34	20° \mathcal{H} 55'51		inferior conj	2000 Mar 01 15:11	11° \mathcal{H} 20'33	3°41'46
morning max el	1999 Apr 16 16:03	28° \mathcal{H} 43'33	27°34'58	minimum elong	2000 Mar 01 15:53	11° \mathcal{H} 18'43	3°41'44

min. Earth dist.	2000 Mar 04 11:16	8° H 23'59	0.62420 AU		2001 Feb 06 19:57	30° R	
morning rise	2000 Mar 07 22:09	5° H 21'02		evening set	2001 Feb 07 02:54	29° \approx 50'53	
direct	2000 Mar 14 20:39	2° H 46'44		inferior conj	2001 Feb 13 00:17	24° \approx 21'18	3°40'48
desc. node	2000 Mar 20 09:37	4° H 12'34		minimum elong	2001 Feb 12 23:16	24° \approx 24'13	3°40'43
morning max el	2000 Mar 28 21:13	10° H 42'02	27°49'30	min. Earth dist.	2001 Feb 15 05:10	21° \approx 48'18	0.64268 AU
	2000 Apr 13 00:17	0° Y		morning rise	2001 Feb 18 19:04	18° \approx 14'04	
	2000 Apr 30 03:53	0° B		direct	2001 Feb 25 15:41	15° \approx 24'37	
morning set	2000 May 01 15:21	2° B 58'00		desc. node	2001 Mar 07 06:39	19° \approx 40'35	
max. Earth dist.	2000 May 07 05:42	14° B 40'49	1.32608 AU	morning max el	2001 Mar 11 06:10	23° \approx 16'39	27°27'46
					2001 Mar 17 06:05	0° H	
superior conj	2000 May 09 03:50	18° B 49'54	0°00'54		2001 Apr 06 07:14	0° Y	
minimum elong	2000 May 09 03:47	18° B 49'39	0°00'53	morning set	2001 Apr 15 09:24	16° Y 50'58	
behind sun begin	2000 May 08 22:37	18° B 21'38		max. Earth dist.	2001 Apr 20 06:49	26° Y 44'55	1.33421 AU
behind sun end	2000 May 09 08:57	19° B 17'43			2001 Apr 21 20:08	0° B	
asc. node	2000 May 09 01:49	18° B 39'00					
	2000 May 14 07:10	0° II		superior conj	2001 Apr 23 09:24	3° B 17'09	-0°26'41
evening rise	2000 May 16 02:46	3° II 53'07		minimum elong	2001 Apr 23 10:44	3° B 24'13	0°26'23
	2000 May 30 04:27	0° E		asc. node	2001 Apr 25 22:53	8° B 45'39	
evening max el	2000 Jun 09 13:32	13° E 01'28	24°02'57	evening rise	2001 Apr 30 14:10	18° B 39'05	
desc. node	2000 Jun 16 08:52	18° E 07'07			2001 May 06 04:53	0° II	
retrograde	2000 Jun 23 08:32	19° E 57'43		evening max el	2001 May 22 04:33	23° II 30'12	22°26'44
evening set	2000 Jun 27 19:19	19° E 13'55		desc. node	2001 Jun 03 05:52	29° II 55'40	
min. Earth dist.	2000 Jul 04 00:16	16° E 13'13	0.56391 AU	retrograde	2001 Jun 04 05:22	29° II 57'51	
inferior conj	2000 Jul 06 11:35	14° E 41'46	-4°39'54	evening set	2001 Jun 07 06:06	29° II 37'36	
minimum elong	2000 Jul 06 06:35	14° E 49'31	4°39'15	min. Earth dist.	2001 Jun 15 11:40	26° II 03'52	0.55212 AU
morning rise	2000 Jul 14 20:30	10° E 42'12		inferior conj	2001 Jun 16 13:26	25° II 27'22	-3°34'14
direct	2000 Jul 17 13:20	10° E 23'11		minimum elong	2001 Jun 16 05:30	25° II 38'37	3°32'06
morning max el	2000 Jul 27 09:17	14° E 56'50	19°47'52	morning rise	2001 Jun 25 07:00	21° II 35'42	
asc. node	2000 Aug 05 01:02	26° E 14'25		direct	2001 Jun 28 05:49	21° II 15'55	
	2000 Aug 07 05:42	0° O		morning max el	2001 Jul 09 17:04	26° II 35'57	21°07'53
morning set	2000 Aug 14 04:16	13° O 20'50			2001 Jul 12 22:47	0° E	
				asc. node	2001 Jul 22 22:06	15° E 08'36	
superior conj	2000 Aug 22 01:05	29° O 14'55	1°45'38	morning set	2001 Jul 29 12:03	28° E 04'44	
minimum elong	2000 Aug 22 01:26	29° O 16'35	1°45'38		2001 Jul 30 10:18	0° O	
	2000 Aug 22 10:11	0° M					
max. Earth dist.	2000 Aug 27 19:55	10° M 26'24	1.37241 AU	superior conj	2001 Aug 05 21:51	13° O 31'21	1°43'19
evening rise	2000 Aug 31 15:07	17° M 25'24		minimum elong	2001 Aug 05 20:44	13° O 25'33	1°43'17
	2000 Sep 07 22:22	0° A		max. Earth dist.	2001 Aug 10 05:44	22° O 17'52	1.35456 AU
desc. node	2000 Sep 12 08:11	7° A 05'13		evening rise	2001 Aug 14 10:48	0° M 27'07	
	2000 Sep 28 13:28	0° M			2001 Aug 14 05:04	0° M	
evening max el	2000 Oct 06 10:19	8° M 49'40	25°30'51	desc. node	2001 Aug 30 05:12	27° M 16'51	
retrograde	2000 Oct 18 13:41	15° M 47'57			2001 Sep 01 00:37	0° A	
evening set	2000 Oct 24 12:40	13° M 18'23		evening max el	2001 Sep 18 22:24	22° A 28'02	26°32'00
min. Earth dist.	2000 Oct 28 22:06	8° M 27'42	0.67052 AU	retrograde	2001 Oct 01 19:23	29° A 41'10	
inferior conj	2000 Oct 30 02:09	6° M 57'33	-0°39'41	evening set	2001 Oct 08 07:55	27° A 00'38	
minimum elong	2000 Oct 30 03:10	6° M 54'16	0°39'15	min. Earth dist.	2001 Oct 12 10:00	22° A 46'22	0.66152 AU
asc. node	2000 Nov 01 00:16	4° M 33'32		inferior conj	2001 Oct 14 01:43	20° A 46'52	-1°37'47
morning rise	2000 Nov 04 17:55	1° M 01'25		minimum elong	2001 Oct 14 04:19	20° A 39'01	1°36'44
	2000 Nov 07 07:28	30° R A		asc. node	2001 Oct 18 21:18	15° A 47'09	
direct	2000 Nov 08 02:28	29° A 56'26		morning rise	2001 Oct 20 01:16	15° A 01'32	
	2000 Nov 08 21:42	0° M		direct	2001 Oct 23 00:23	14° A 12'07	
morning max el	2000 Nov 15 05:22	3° M 56'43	19°20'25	morning max el	2001 Oct 29 16:30	17° A 52'03	18°33'55
greatest brilliancy	2000 Nov 29 02:12	22° M 42'41	-0.7m		2001 Nov 07 19:53	0° M	
	2000 Dec 03 20:26	0° A		morning set	2001 Nov 19 00:22	17° M 40'42	
morning set	2000 Dec 09 00:59	8° A 01'52		desc. node	2001 Nov 26 04:29	29° M 05'00	
desc. node	2000 Dec 09 07:27	8° A 26'59			2001 Nov 26 18:23	0° A	
max. Earth dist.	2000 Dec 22 13:05	29° A 08'43	1.44674 AU				
	2000 Dec 23 02:03	0° B		superior conj	2001 Dec 04 21:36	12° A 48'22	-0°56'08
				minimum elong	2001 Dec 04 14:34	12° A 20'47	0°55'16
superior conj	2000 Dec 25 19:23	4° B 19'15	-1°36'44	max. Earth dist.	2001 Dec 05 07:22	13° A 26'42	1.45145 AU
minimum elong	2000 Dec 25 10:50	3° B 45'11	1°35'58		2001 Dec 15 19:55	0° B	
evening rise	2001 Jan 09 04:34	27° B 43'31		evening rise	2001 Dec 20 19:54	7° B 55'19	
	2001 Jan 10 13:26	0° \approx		greatest brilliancy	2001 Dec 29 16:47	21° B 59'39	-0.8m
asc. node	2001 Jan 27 23:35	26° \approx 31'20			2002 Jan 03 21:38	0° \approx	
evening max el	2001 Jan 28 13:38	27° \approx 08'07	18°25'53	evening max el	2002 Jan 11 23:44	10° \approx 35'00	19°00'41
	2001 Feb 01 07:13	0° H		asc. node	2002 Jan 14 20:37	13° \approx 03'31	
retrograde	2001 Feb 04 01:58	0° H 41'41		retrograde	2002 Jan 18 20:50	14° \approx 29'05	

evening set	2002 Jan 22 03:55	13° \approx 26'09		greatest brilliancy	2002 Dec 14 04:59	8° \approx 05'32	-0.7m
inferior conj	2002 Jan 27 18:55	7° \approx 39'49	3°24'31	evening max el	2002 Dec 26 05:38	24° \approx 04'26	19°51'46
minimum elong	2002 Jan 27 16:48	7° \approx 46'29	3°24'10	asc. node	2003 Jan 01 17:38	28° \approx 21'53	
min. Earth dist.	2002 Jan 29 08:27	5° \approx 41'50	0.65744 AU	retrograde	2003 Jan 02 18:19	28° \approx 27'45	
morning rise	2002 Feb 02 05:22	1° \approx 28'23		evening set	2003 Jan 06 09:03	27° \approx 11'23	
	2002 Feb 04 04:18	30° \approx 37'49		inferior conj	2003 Jan 11 20:02	21° \approx 10'56	2°56'45
direct	2002 Feb 08 17:28	28° \approx 37'49		minimum elong	2003 Jan 11 17:27	21° \approx 19'35	2°56'06
	2002 Feb 13 17:20	0° \approx		min. Earth dist.	2003 Jan 12 19:29	19° \approx 52'58	0.66815 AU
morning max el	2002 Feb 21 16:08	6° \approx 15'47	26°35'20	morning rise	2003 Jan 17 01:36	14° \approx 57'45	
desc. node	2002 Feb 22 03:42	6° \approx 45'13		direct	2003 Jan 23 01:08	12° \approx 17'44	
	2002 Mar 11 23:34	0° \approx		morning max el	2003 Feb 04 01:04	19° \approx 26'59	25°20'59
morning set	2002 Mar 29 16:08	0° \approx 06'33		desc. node	2003 Feb 09 00:44	24° \approx 58'43	
	2002 Mar 29 14:44	0° \approx			2003 Feb 13 01:00	0° \approx	
max. Earth dist.	2002 Apr 02 21:05	8° \approx 15'39	1.34683 AU		2003 Mar 05 02:04	0° \approx	
				morning set	2003 Mar 12 06:50	12° \approx 31'10	
superior conj	2002 Apr 07 08:55	17° \approx 21'45	-0°54'38	max. Earth dist.	2003 Mar 15 23:36	19° \approx 20'00	1.36388 AU
minimum elong	2002 Apr 07 11:40	17° \approx 36'00	0°54'06				
asc. node	2002 Apr 12 19:56	28° \approx 45'31		superior conj	2003 Mar 21 23:34	0° \approx 56'03	-1°21'18
	2002 Apr 13 10:10	0° \approx		minimum elong	2003 Mar 22 03:30	1° \approx 15'32	1°20'43
evening rise	2002 Apr 14 23:16	3° \approx 13'02			2003 Mar 21 12:16	0° \approx	
	2002 Apr 30 07:15	0° \approx		evening rise	2003 Mar 30 03:56	17° \approx 28'34	
evening max el	2002 May 04 03:42	4° \approx 19'13	20°58'15	asc. node	2003 Mar 30 16:57	18° \approx 34'16	
retrograde	2002 May 15 18:50	9° \approx 59'11			2003 Apr 05 14:37	0° \approx	
evening set	2002 May 17 23:06	9° \approx 47'59		evening max el	2003 Apr 16 14:39	15° \approx 46'45	19°46'00
desc. node	2002 May 21 02:54	8° \approx 55'25		retrograde	2003 Apr 26 11:59	20° \approx 33'12	
inferior conj	2002 May 27 07:09	5° \approx 49'53	-1°47'10	evening set	2003 Apr 28 12:35	20° \approx 22'05	
minimum elong	2002 May 27 02:08	5° \approx 57'00	1°45'23	inferior conj	2003 May 07 07:21	16° \approx 20'19	0°12'00
min. Earth dist.	2002 May 28 00:02	5° \approx 25'57	0.54919 AU	minimum elong	2003 May 07 07:52	16° \approx 19'29	0°11'48
morning rise	2002 Jun 05 05:01	1° \approx 46'34		transit middle	2003 May 07 07:52	16° \approx 19'29	0°11'48
direct	2002 Jun 08 15:11	1° \approx 21'16		transit begin	2003 May 07 05:13	16° \approx 23'37	
morning max el	2002 Jun 21 14:30	7° \approx 33'36	22°43'51	transit end	2003 May 07 10:32	16° \approx 15'22	
	2002 Jul 07 10:35	0° \approx		desc. node	2003 May 07 23:56	15° \approx 54'31	
asc. node	2002 Jul 09 19:09	4° \approx 30'36		min. Earth dist.	2003 May 09 14:05	14° \approx 55'40	0.55597 AU
morning set	2002 Jul 13 22:41	12° \approx 57'24		morning rise	2003 May 16 00:44	11° \approx 48'12	
				direct	2003 May 20 07:33	11° \approx 07'24	
superior conj	2002 Jul 21 01:47	28° \approx 09'08	1°34'38	morning max el	2003 Jun 03 05:41	18° \approx 04'38	24°25'48
minimum elong	2002 Jul 20 23:45	27° \approx 58'20	1°34'27		2003 Jun 13 01:34	0° \approx	
	2002 Jul 21 22:41	0° \approx		asc. node	2003 Jun 26 16:12	24° \approx 13'09	
max. Earth dist.	2002 Jul 24 00:16	4° \approx 20'10	1.34036 AU	morning set	2003 Jun 28 10:29	27° \approx 53'45	
evening rise	2002 Jul 28 20:56	14° \approx 11'05			2003 Jun 29 10:17	0° \approx	
	2002 Aug 06 09:51	0° \approx					
desc. node	2002 Aug 17 02:13	17° \approx 04'05		superior conj	2003 Jul 05 10:21	13° \approx 00'13	1°20'44
	2002 Aug 26 21:10	0° \approx		minimum elong	2003 Jul 05 07:57	12° \approx 47'12	1°20'23
evening max el	2002 Sep 01 10:24	5° \approx 55'54	27°12'40	max. Earth dist.	2003 Jul 07 03:39	16° \approx 43'37	1.33029 AU
retrograde	2002 Sep 14 19:38	13° \approx 14'39		evening rise	2003 Jul 12 17:34	28° \approx 26'03	
evening set	2002 Sep 21 18:53	10° \approx 30'51			2003 Jul 13 12:10	0° \approx	
min. Earth dist.	2002 Sep 25 14:24	6° \approx 52'33	0.64894 AU		2003 Jul 30 14:05	0° \approx	
inferior conj	2002 Sep 27 18:31	4° \approx 28'25	-2°36'08	desc. node	2003 Aug 03 23:14	6° \approx 16'33	
minimum elong	2002 Sep 27 22:40	4° \approx 16'57	2°34'37	evening max el	2003 Aug 14 20:57	19° \approx 01'51	27°25'59
	2002 Oct 02 09:26	30° \approx 09'26		retrograde	2003 Aug 28 13:41	26° \approx 19'25	
morning rise	2002 Oct 04 03:22	28° \approx 56'52		evening set	2003 Sep 04 18:24	23° \approx 43'17	
asc. node	2002 Oct 05 18:20	28° \approx 25'02		min. Earth dist.	2003 Sep 08 09:22	20° \approx 37'05	0.63291 AU
direct	2002 Oct 06 19:26	28° \approx 19'12		inferior conj	2003 Sep 11 01:57	17° \approx 56'16	-3°31'39
	2002 Oct 11 05:56	0° \approx		minimum elong	2003 Sep 11 07:09	17° \approx 43'16	3°30'06
morning max el	2002 Oct 13 07:35	1° \approx 48'03	18°04'06	morning rise	2003 Sep 17 21:12	12° \approx 41'42	
morning set	2002 Oct 31 04:55	28° \approx 45'51		direct	2003 Sep 20 08:52	12° \approx 12'14	
	2002 Oct 31 22:43	0° \approx		asc. node	2003 Sep 22 15:23	12° \approx 37'21	
desc. node	2002 Nov 13 01:30	19° \approx 49'14		morning max el	2003 Sep 26 23:44	15° \approx 38'03	17°51'48
					2003 Oct 07 01:28	0° \approx	
superior conj	2002 Nov 14 04:40	21° \approx 37'50	-0°07'38	morning set	2003 Oct 13 10:29	11° \approx 03'13	
minimum elong	2002 Nov 14 03:43	21° \approx 34'03	0°07'29		2003 Oct 24 11:20	0° \approx	
behind sun begin	2002 Nov 13 18:09	20° \approx 55'53					
behind sun end	2002 Nov 14 13:16	22° \approx 12'09		superior conj	2003 Oct 25 09:58	1° \approx 34'14	0°36'59
max. Earth dist.	2002 Nov 18 02:03	27° \approx 48'19	1.44873 AU	minimum elong	2003 Oct 25 13:33	1° \approx 49'06	0°36'29
	2002 Nov 19 11:29	0° \approx		desc. node	2003 Oct 30 22:31	10° \approx 36'23	
evening rise	2002 Nov 30 14:10	17° \approx 18'12		max. Earth dist.	2003 Oct 31 18:43	11° \approx 57'37	1.43905 AU
	2002 Dec 08 20:21	0° \approx		evening rise	2003 Nov 09 22:29	26° \approx 21'38	

	2003 Nov 12 07:19	0°♊		max. Earth dist.	2004 Oct 13 07:18	25°♊39'22	1.42357 AU
	2003 Dec 02 21:34	0°♋			2004 Oct 15 22:57	0°♌	
evening max el	2003 Dec 09 06:11	7°♋34'57	20°56'29	desc. node	2004 Oct 16 19:33	1°♌23'21	
retrograde	2003 Dec 17 16:01	12°♋33'45		evening rise	2004 Oct 19 13:53	5°♌48'23	
asc. node	2003 Dec 19 14:38	12°♋12'43			2004 Nov 04 14:40	0°♍	
evening set	2003 Dec 21 16:17	11°♋02'18		evening max el	2004 Nov 21 01:16	21°♍07'05	22°11'10
inferior conj	2003 Dec 27 01:11	4°♋50'45	2°20'04	retrograde	2004 Nov 30 12:17	26°♍44'38	
minimum elong	2003 Dec 26 22:39	4°♋59'27	2°19'15	evening set	2004 Dec 04 23:56	24°♍56'41	
min. Earth dist.	2003 Dec 27 12:01	4°♋13'33	0.67498 AU	asc. node	2004 Dec 05 11:39	24°♍31'35	
	2003 Dec 30 19:52	30°♌♊		inferior conj	2004 Dec 10 08:22	18°♍37'17	1°36'18
morning rise	2004 Jan 01 04:50	28°♌37'40		minimum elong	2004 Dec 10 06:21	18°♌44'15	1°35'32
direct	2004 Jan 06 13:44	26°♌16'11		min. Earth dist.	2004 Dec 10 07:47	18°♌39'16	0.67810 AU
	2004 Jan 14 11:02	0°♍		morning rise	2004 Dec 15 12:38	12°♌26'12	
morning max el	2004 Jan 17 09:21	2°♍43'08	23°54'45	direct	2004 Dec 20 06:29	10°♌27'07	
desc. node	2004 Jan 26 21:45	14°♍00'46		morning max el	2004 Dec 29 20:06	16°♌05'58	22°26'39
	2004 Feb 07 04:20	0°♎			2005 Jan 10 04:09	0°♏	
morning set	2004 Feb 21 23:27	23°♎46'56		desc. node	2005 Jan 12 18:47	3°♏37'58	
	2004 Feb 25 12:58	0°♐			2005 Jan 30 05:37	0°♑	
max. Earth dist.	2004 Feb 25 19:01	0°♐26'50	1.38438 AU	morning set	2005 Feb 01 12:17	3°♑41'05	
				max. Earth dist.	2005 Feb 06 15:41	12°♑13'49	1.40595 AU
superior conj	2004 Mar 04 01:43	13°♐49'22	-1°44'21				
minimum elong	2004 Mar 04 05:58	14°♐09'33	1°43'56	superior conj	2005 Feb 14 10:50	25°♑50'54	-2°00'19
	2004 Mar 12 09:44	0°♑		minimum elong	2005 Feb 14 13:43	26°♑03'54	2°00'12
evening rise	2004 Mar 13 01:32	1°♑17'25			2005 Feb 16 17:46	0°♒	
asc. node	2004 Mar 16 13:59	8°♑06'03		evening rise	2005 Feb 24 13:01	14°♒32'41	
evening max el	2004 Mar 29 12:27	27°♑52'31	18°53'09	asc. node	2005 Mar 03 11:01	27°♒15'15	
	2004 Apr 01 02:27	0°♓			2005 Mar 05 01:34	0°♑	
retrograde	2004 Apr 06 20:27	1°♓55'30		evening max el	2005 Mar 12 18:20	10°♑30'13	18°20'24
evening set	2004 Apr 09 01:42	1°♓39'26		retrograde	2005 Mar 20 00:14	14°♑06'03	
	2004 Apr 13 01:23	30°♒♑		evening set	2005 Mar 22 11:24	13°♑42'06	
inferior conj	2004 Apr 17 01:05	27°♑21'45	1°51'46	inferior conj	2005 Mar 29 16:11	9°♑03'52	2°58'19
minimum elong	2004 Apr 17 04:49	27°♑15'02	1°50'37	minimum elong	2005 Mar 29 19:49	8°♑56'13	2°57'33
min. Earth dist.	2004 Apr 20 06:12	25°♑04'21	0.57091 AU	min. Earth dist.	2005 Apr 02 02:36	6°♑12'00	0.59084 AU
desc. node	2004 Apr 23 20:57	22°♑52'40		morning rise	2005 Apr 06 01:37	3°♑29'21	
morning rise	2004 Apr 25 04:49	22°♑15'36		desc. node	2005 Apr 10 17:59	1°♑51'21	
direct	2004 Apr 30 13:05	21°♑06'59		direct	2005 Apr 12 07:46	1°♑44'44	
morning max el	2004 May 14 20:36	28°♑33'58	25°59'31	morning max el	2005 Apr 26 16:24	9°♑29'18	27°09'43
	2004 May 16 06:54	0°♓			2005 May 12 09:14	0°♓	
	2004 Jun 05 12:47	0°♐		morning set	2005 May 27 07:04	27°♓34'28	
morning set	2004 Jun 11 21:50	12°♐47'55			2005 May 28 10:44	0°♐	
asc. node	2004 Jun 12 13:15	14°♐09'28		asc. node	2005 May 30 10:18	4°♐14'38	
superior conj	2004 Jun 18 21:24	27°♐56'59	1°02'31	superior conj	2005 Jun 03 09:12	12°♐53'29	0°40'44
minimum elong	2004 Jun 18 19:08	27°♐44'32	1°02'06	minimum elong	2005 Jun 03 07:30	12°♐44'11	0°40'23
max. Earth dist.	2004 Jun 19 13:22	29°♐24'33	1.32416 AU	max. Earth dist.	2005 Jun 03 01:42	12°♐12'14	1.32184 AU
	2004 Jun 19 19:49	0°♑		evening rise	2005 Jun 10 06:03	27°♐48'59	
evening rise	2004 Jun 25 21:27	13°♑01'26			2005 Jun 11 07:03	0°♑	
	2004 Jul 04 14:52	0°♒			2005 Jun 28 04:01	0°♒	
desc. node	2004 Jul 20 20:16	24°♒39'40		desc. node	2005 Jul 07 17:17	11°♒52'56	
	2004 Jul 25 13:58	0°♓		evening max el	2005 Jul 09 03:20	13°♒17'02	26°15'23
evening max el	2004 Jul 27 03:29	1°♓32'27	27°07'11	retrograde	2005 Jul 23 03:00	20°♒28'11	
retrograde	2004 Aug 10 00:33	8°♓46'28		evening set	2005 Jul 29 14:18	18°♒45'14	
evening set	2004 Aug 17 02:27	6°♓30'51		min. Earth dist.	2005 Aug 02 16:09	16°♒09'13	0.59336 AU
min. Earth dist.	2004 Aug 20 17:45	3°♓47'32	0.61394 AU	inferior conj	2005 Aug 05 23:36	13°♒37'26	-4°51'31
inferior conj	2004 Aug 23 20:51	1°♓02'33	-4°19'27	minimum elong	2005 Aug 06 02:27	13°♒31'56	4°51'16
minimum elong	2004 Aug 24 01:56	0°♓51'18	4°18'25	morning rise	2005 Aug 13 16:44	9°♒06'12	
	2004 Aug 25 01:33	30°♓♒		direct	2005 Aug 16 03:51	8°♒45'10	
morning rise	2004 Aug 31 03:04	26°♒08'24		morning max el	2005 Aug 23 23:18	12°♒30'42	18°24'13
direct	2004 Sep 02 13:09	25°♒44'10		asc. node	2005 Aug 26 09:29	15°♒09'11	
asc. node	2004 Sep 08 12:25	28°♒16'55			2005 Sep 04 17:52	0°♓	
morning max el	2004 Sep 09 14:01	29°♒15'04	17°58'07	morning set	2005 Sep 09 00:18	8°♓03'28	
	2004 Sep 10 07:38	0°♓					
morning set	2004 Sep 25 10:45	24°♓14'21		superior conj	2005 Sep 18 02:38	25°♓17'15	1°32'32
	2004 Sep 28 14:13	0°♊		minimum elong	2005 Sep 18 05:55	25°♓32'21	1°32'16
					2005 Sep 20 16:40	0°♊	
superior conj	2004 Oct 05 18:29	12°♊50'54	1°10'48	max. Earth dist.	2005 Sep 25 14:20	8°♊38'43	1.40428 AU
minimum elong	2004 Oct 05 23:01	13°♊10'41	1°10'15	evening rise	2005 Sep 30 01:20	16°♊10'40	

desc. node	2005 Oct 03 16:36	22°♄06'11		evening rise	2006 Sep 11 12:59	27°♄40'55	
	2005 Oct 08 17:15	0°♄			2006 Sep 12 21:08	0°♄	
	2005 Oct 30 09:02	0°♄		desc. node	2006 Sep 20 13:38	12°♄41'11	
evening max el	2005 Nov 03 15:51	4°♄40'58	23°30'52		2006 Oct 02 04:38	0°♄	
retrograde	2005 Nov 14 05:42	10°♄56'13		evening max el	2006 Oct 17 04:08	18°♄18'36	24°49'14
evening set	2005 Nov 19 06:22	8°♄51'10		retrograde	2006 Oct 28 19:16	25°♄04'41	
asc. node	2005 Nov 22 08:43	5°♄31'30		evening set	2006 Nov 03 09:55	22°♄43'23	
min. Earth dist.	2005 Nov 24 04:28	3°♄06'12	0.67775 AU	min. Earth dist.	2006 Nov 07 23:42	17°♄32'16	0.67409 AU
inferior conj	2005 Nov 24 15:43	2°♄27'43	0°46'49	inferior conj	2006 Nov 08 21:31	16°♄20'06	-0°07'07
minimum elong	2005 Nov 24 14:38	2°♄31'26	0°46'22	minimum elong	2006 Nov 08 21:41	16°♄19'31	0°07'03
	2005 Nov 26 11:53	30°♄		transit middle	2006 Nov 08 21:41	16°♄19'31	0°07'03
morning rise	2005 Nov 29 22:52	26°♄20'29		transit begin	2006 Nov 08 19:12	16°♄27'45	
direct	2005 Dec 04 02:24	24°♄44'17		transit end	2006 Nov 09 00:10	16°♄11'18	
morning max el	2005 Dec 12 12:42	29°♄38'02	21°04'41	asc. node	2006 Nov 09 05:46	15°♄52'48	
	2005 Dec 12 21:19	0°♄		morning rise	2006 Nov 14 09:35	10°♄19'03	
desc. node	2005 Dec 30 15:49	23°♄39'57		direct	2006 Nov 18 00:25	9°♄03'38	
	2006 Jan 03 21:26	0°♄		morning max el	2006 Nov 25 12:57	13°♄20'49	19°54'16
morning set	2006 Jan 11 21:22	12°♄18'27			2006 Dec 08 05:52	0°♄	
max. Earth dist.	2006 Jan 19 18:38	24°♄54'58	1.42559 AU	desc. node	2006 Dec 17 12:52	13°♄59'51	
	2006 Jan 22 20:41	0°♄		morning set	2006 Dec 21 17:19	20°♄26'02	
					2006 Dec 27 20:55	0°♄	
superior conj	2006 Jan 26 21:34	6°♄47'40	-2°04'42	max. Earth dist.	2007 Jan 02 04:50	8°♄25'14	1.44075 AU
minimum elong	2006 Jan 26 20:34	6°♄43'24	2°04'41				
evening rise	2006 Feb 07 10:28	27°♄05'17		superior conj	2007 Jan 07 06:05	16°♄32'46	-1°52'30
	2006 Feb 09 01:22	0°♄		minimum elong	2007 Jan 06 23:38	16°♄06'34	1°52'05
asc. node	2006 Feb 18 08:03	15°♄54'17			2007 Jan 15 09:25	0°♄	
evening max el	2006 Feb 24 05:04	23°♄31'00	18°07'32	evening rise	2007 Jan 20 13:33	8°♄46'44	
retrograde	2006 Mar 02 20:29	26°♄55'28			2007 Feb 02 09:20	0°♄	
evening set	2006 Mar 05 13:02	26°♄22'00		asc. node	2007 Feb 05 05:05	3°♄53'48	
inferior conj	2006 Mar 12 02:44	21°♄23'03	3°33'19	evening max el	2007 Feb 07 17:40	6°♄47'02	18°13'55
minimum elong	2006 Mar 12 04:35	21°♄18'32	3°33'07	retrograde	2007 Feb 14 04:38	10°♄13'45	
min. Earth dist.	2006 Mar 15 06:10	18°♄21'06	0.61227 AU	evening set	2007 Feb 17 02:22	9°♄29'37	
morning rise	2006 Mar 18 18:25	15°♄29'58		inferior conj	2007 Feb 23 04:46	4°♄11'01	3°43'32
direct	2006 Mar 25 13:42	13°♄10'52		minimum elong	2007 Feb 23 04:40	4°♄11'16	3°43'31
desc. node	2006 Mar 28 15:01	13°♄36'53		min. Earth dist.	2007 Feb 25 18:42	1°♄22'11	0.63242 AU
morning max el	2006 Apr 08 18:39	21°♄05'10	27°45'49		2007 Feb 27 03:00	30°♄	
	2006 Apr 16 12:20	0°♄		morning rise	2007 Mar 01 06:01	28°♄07'29	
	2006 May 05 08:28	0°♄		direct	2007 Mar 08 04:44	25°♄24'37	
morning set	2006 May 11 12:21	12°♄07'05		desc. node	2007 Mar 15 12:03	27°♄53'43	
asc. node	2006 May 17 07:22	24°♄24'08			2007 Mar 18 09:35	0°♄	
max. Earth dist.	2006 May 17 12:45	24°♄53'24	1.32332 AU	morning max el	2007 Mar 22 01:47	3°♄20'37	27°44'26
					2007 Apr 10 23:07	0°♄	
superior conj	2006 May 18 20:02	27°♄44'04	0°16'05	morning set	2007 Apr 25 11:18	26°♄17'18	
minimum elong	2006 May 18 19:18	27°♄40'02	0°15'56		2007 Apr 27 07:16	0°♄	
	2006 May 19 20:52	0°♄		max. Earth dist.	2007 Apr 30 18:24	7°♄13'31	1.32893 AU
evening rise	2006 May 25 17:14	12°♄41'31					
	2006 Jun 03 11:21	0°♄		superior conj	2007 May 03 04:05	12°♄21'56	-0°10'40
evening max el	2006 Jun 20 20:11	24°♄16'53	24°56'16	minimum elong	2007 May 03 04:37	12°♄24'43	0°10'33
desc. node	2006 Jun 24 14:19	27°♄28'19		behind sun begin	2007 May 03 00:38	12°♄03'19	
	2006 Jun 28 19:57	0°♄		behind sun end	2007 May 03 08:35	12°♄46'08	
retrograde	2006 Jul 04 19:33	1°♄22'26		asc. node	2007 May 04 04:24	14°♄33'06	
evening set	2006 Jul 10 02:39	0°♄18'23		evening rise	2007 May 10 05:04	27°♄31'44	
	2006 Jul 10 20:18	30°♄			2007 May 11 09:17	0°♄	
min. Earth dist.	2006 Jul 15 07:37	27°♄31'00	0.57357 AU		2007 May 29 00:56	0°♄	
inferior conj	2006 Jul 18 07:07	25°♄32'16	-4°55'46	evening max el	2007 Jun 02 09:57	4°♄49'01	23°21'57
minimum elong	2006 Jul 18 05:16	25°♄35'23	4°55'41	desc. node	2007 Jun 11 11:20	10°♄49'35	
morning rise	2006 Jul 26 10:33	21°♄23'03		retrograde	2007 Jun 15 23:40	11°♄35'55	
direct	2006 Jul 29 00:39	21°♄03'47		evening set	2007 Jun 19 18:44	11°♄04'21	
morning max el	2006 Aug 07 00:32	25°♄16'10	19°11'11	min. Earth dist.	2007 Jun 26 19:56	7°♄50'55	0.55793 AU
	2006 Aug 11 04:09	0°♄		inferior conj	2007 Jun 28 18:40	6°♄41'52	-4°18'07
asc. node	2006 Aug 13 06:34	2°♄59'20		minimum elong	2007 Jun 28 11:49	6°♄52'02	4°16'47
morning set	2006 Aug 23 23:11	22°♄20'17		morning rise	2007 Jul 07 07:28	2°♄47'19	
	2006 Aug 27 19:31	0°♄		direct	2007 Jul 10 02:15	2°♄28'24	
				morning max el	2007 Jul 20 15:00	7°♄21'04	20°19'28
superior conj	2006 Sep 01 04:49	8°♄37'45	1°43'29	asc. node	2007 Jul 31 03:38	21°♄33'18	
minimum elong	2006 Sep 01 06:12	8°♄44'25	1°43'26		2007 Aug 04 17:15	0°♄	
max. Earth dist.	2006 Sep 07 17:55	20°♄55'35	1.38375 AU	morning set	2007 Aug 08 04:22	6°♄55'57	

superior conj	2007 Aug 15 19:56	22° Ω 36'54	1°45'31	superior conj	2008 Jul 29 20:04	7° Ω 03'11	1°40'20
minimum elong	2007 Aug 15 19:36	22° Ω 35'10	1°45'30	minimum elong	2008 Jul 29 18:30	6° Ω 54'56	1°40'14
	2007 Aug 19 13:01	0° Π		max. Earth dist.	2008 Aug 02 13:12	14° Ω 42'54	1.34813 AU
max. Earth dist.	2007 Aug 20 23:43	2° Π 48'16	1.36445 AU	evening rise	2008 Aug 07 00:41	23° Ω 34'01	
evening rise	2007 Aug 24 22:18	10° Π 12'46			2008 Aug 10 10:51	0° Π	
	2007 Sep 05 12:02	0° Ω		desc. node	2008 Aug 24 07:41	23° Π 05'12	
desc. node	2007 Sep 07 10:40	3° Ω 02'59			2008 Aug 29 02:50	0° Ω	
	2007 Sep 27 17:18	0° Π		evening max el	2008 Sep 11 04:32	15° Ω 34'27	26°52'17
evening max el	2007 Sep 29 16:09	1° Π 58'35	25°58'58	retrograde	2008 Sep 24 07:17	22° Ω 50'10	
retrograde	2007 Oct 12 04:00	9° Π 04'49		evening set	2008 Oct 01 00:47	20° Ω 07'29	
evening set	2007 Oct 18 08:47	6° Π 30'08		min. Earth dist.	2008 Oct 05 00:05	16° Ω 08'31	0.65662 AU
min. Earth dist.	2007 Oct 22 15:05	1° Π 54'32	0.66708 AU	inferior conj	2008 Oct 06 20:53	13° Ω 58'10	-2°02'41
inferior conj	2007 Oct 23 23:55	0° Π 11'35	-1°04'10	minimum elong	2008 Oct 07 00:10	13° Ω 48'36	2°01'23
minimum elong	2007 Oct 24 01:36	0° Π 06'18	1°03'28	asc. node	2008 Oct 12 23:52	8° Ω 18'30	
	2007 Oct 24 03:36	30° \mathbb{R} Ω		morning rise	2008 Oct 13 00:12	8° Ω 18'04	
asc. node	2007 Oct 27 02:49	26° Ω 32'06		direct	2008 Oct 15 20:06	7° Ω 33'57	
morning rise	2007 Oct 29 18:46	24° Ω 19'25		morning max el	2008 Oct 22 09:34	11° Ω 07'59	18°19'05
direct	2007 Nov 01 22:59	23° Ω 21'31			2008 Nov 04 16:00	0° Π	
morning max el	2007 Nov 08 20:31	27° Ω 12'16	18°58'34	morning set	2008 Nov 10 13:27	9° Π 34'00	
	2007 Nov 11 08:41	0° Π		desc. node	2008 Nov 20 06:55	25° Π 13'26	
morning set	2007 Dec 01 01:32	29° Π 17'40			2008 Nov 23 07:09	0° \mathbb{X}	
	2007 Dec 01 12:21	0° \mathbb{X}		superior conj	2008 Nov 25 16:52	3° \mathbb{X} 47'51	-0°35'45
desc. node	2007 Dec 04 09:54	4° \mathbb{X} 32'30		minimum elong	2008 Nov 25 12:15	3° \mathbb{X} 29'39	0°35'07
max. Earth dist.	2007 Dec 15 20:55	22° \mathbb{X} 30'51	1.44961 AU	max. Earth dist.	2008 Nov 27 16:07	6° \mathbb{X} 53'45	1.45122 AU
				evening rise	2008 Dec 11 23:56	29° \mathbb{X} 19'48	
superior conj	2007 Dec 17 15:27	25° \mathbb{X} 18'19	-1°21'15		2008 Dec 12 10:13	0° \mathbb{Z}	
minimum elong	2007 Dec 17 06:40	24° \mathbb{X} 43'42	1°20'19	greatest brilliancy	2008 Dec 23 02:34	16° \mathbb{Z} 38'15	-0.8m
	2007 Dec 20 14:43	0° \mathbb{Z}			2009 Jan 01 09:51	0° \approx	
evening rise	2008 Jan 01 18:22	19° \mathbb{Z} 31'10		evening max el	2009 Jan 04 13:58	3° \approx 40'12	19°20'36
	2008 Jan 08 04:46	0° \approx		asc. node	2009 Jan 08 23:09	7° \approx 04'47	
evening max el	2008 Jan 22 05:25	20° \approx 11'57	18°38'41	retrograde	2009 Jan 11 16:44	7° \approx 45'23	
asc. node	2008 Jan 23 02:07	21° \approx 02'11		evening set	2009 Jan 15 02:58	6° \approx 36'44	
retrograde	2008 Jan 28 20:31	23° \approx 52'45		inferior conj	2009 Jan 20 16:00	0° \approx 44'04	3°13'55
evening set	2008 Jan 31 23:57	22° \approx 56'56		minimum elong	2009 Jan 20 13:36	0° \approx 51'47	3°13'27
inferior conj	2008 Feb 06 18:19	17° \approx 20'14	3°35'28		2009 Jan 21 05:36	30° \mathbb{R} \mathbb{Z}	
minimum elong	2008 Feb 06 16:45	17° \approx 24'56	3°35'18	min. Earth dist.	2009 Jan 21 23:17	29° \mathbb{Z} 03'03	0.66251 AU
min. Earth dist.	2008 Feb 08 16:40	15° \approx 01'01	0.64944 AU	morning rise	2009 Jan 25 24:00	24° \mathbb{Z} 31'55	
morning rise	2008 Feb 12 09:07	11° \approx 11'05		direct	2009 Feb 01 07:10	21° \mathbb{Z} 44'47	
direct	2008 Feb 19 02:57	8° \approx 19'15		morning max el	2009 Feb 13 20:43	29° \mathbb{Z} 11'28	26°05'52
desc. node	2008 Mar 01 09:04	14° \approx 06'51			2009 Feb 14 15:39	0° \approx	
morning max el	2008 Mar 03 11:13	16° \approx 06'45	27°08'45	desc. node	2009 Feb 16 06:05	1° \approx 43'16	
	2008 Mar 14 22:46	0° \mathbb{H}			2009 Mar 08 18:56	0° \mathbb{H}	
	2008 Apr 02 17:45	0° \mathbb{Y}		morning set	2009 Mar 22 01:29	22° \mathbb{H} 51'11	
morning set	2008 Apr 08 01:00	9° \mathbb{Y} 56'06			2009 Mar 25 19:55	0° \mathbb{Y}	
max. Earth dist.	2008 Apr 12 15:00	19° \mathbb{Y} 03'06	1.33901 AU	max. Earth dist.	2009 Mar 26 00:14	0° \mathbb{Y} 20'54	1.35363 AU
				superior conj	2009 Mar 31 03:29	10° \mathbb{Y} 33'32	-1°06'12
superior conj	2008 Apr 16 07:24	26° \mathbb{Y} 41'03	-0°38'32	minimum elong	2009 Mar 31 06:48	10° \mathbb{Y} 50'23	1°05'38
minimum elong	2008 Apr 16 09:21	26° \mathbb{Y} 51'16	0°38'08	asc. node	2009 Apr 06 22:28	24° \mathbb{Y} 33'22	
	2008 Apr 17 21:07	0° \mathbb{B}		evening rise	2009 Apr 07 23:12	26° \mathbb{Y} 40'34	
asc. node	2008 Apr 20 01:27	4° \mathbb{B} 37'45			2009 Apr 09 14:21	0° \mathbb{B}	
evening rise	2008 Apr 23 15:43	12° \mathbb{B} 13'44		evening max el	2009 Apr 26 07:48	26° \mathbb{B} 27'45	20°25'12
	2008 May 02 20:00	0° Π			2009 Apr 30 22:29	0° Π	
evening max el	2008 May 14 03:51	15° Π 23'59	21°47'34	retrograde	2009 May 07 05:00	1° Π 44'32	
retrograde	2008 May 26 15:48	21° Π 32'20		evening set	2009 May 09 06:22	1° Π 34'00	
desc. node	2008 May 28 08:20	21° Π 25'52			2009 May 13 23:53	30° \mathbb{R} \mathbb{B}	
evening set	2008 May 29 05:42	21° Π 17'25		desc. node	2009 May 15 05:19	29° \mathbb{B} 23'29	
inferior conj	2008 Jun 07 15:27	17° Π 14'37	-2°52'35	inferior conj	2009 May 18 10:02	27° \mathbb{B} 36'01	-0°55'57
minimum elong	2008 Jun 07 08:04	17° Π 24'56	2°50'17	minimum elong	2009 May 18 07:24	27° \mathbb{B} 39'52	0°54'59
min. Earth dist.	2008 Jun 07 07:39	17° Π 25'30	0.54978 AU	min. Earth dist.	2009 May 19 20:15	26° \mathbb{B} 46'12	0.55098 AU
morning rise	2008 Jun 16 11:36	13° Π 20'14		morning rise	2009 May 27 07:18	23° \mathbb{B} 22'30	
direct	2008 Jun 19 14:31	12° Π 58'46		direct	2009 May 31 01:22	22° \mathbb{B} 52'06	
morning max el	2008 Jul 01 17:54	18° Π 41'08	21°47'03	morning max el	2009 Jun 13 11:52	29° \mathbb{B} 24'14	23°27'17
	2008 Jul 10 20:17	0° \mathbb{G}			2009 Jun 14 02:47	0° Π	
asc. node	2008 Jul 17 00:41	10° \mathbb{G} 40'19		asc. node	2009 Jul 03 21:43	0° \mathbb{G} 12'02	
morning set	2008 Jul 22 13:35	21° \mathbb{G} 44'09			2009 Jul 03 19:20	0° \mathbb{G}	
	2008 Jul 26 11:48	0° Ω					

morning set	2009 Jul 07 00:57	6°☿39'25		asc. node	2010 Jun 20 18:46	20°♊01'09	
				morning set	2010 Jun 21 12:45	21°♊35'42	
					2010 Jun 25 10:32	0°☿	
superior conj	2009 Jul 14 02:16	21°☿47'37	1°29'19				
minimum elong	2009 Jul 14 00:00	21°☿35'32	1°29'03				
max. Earth dist.	2009 Jul 16 12:00	26°☿55'29	1.33561 AU	superior conj	2010 Jun 28 12:07	6°☿42'03	1°13'29
	2009 Jul 17 23:08	0°♊		minimum elong	2010 Jun 28 09:43	6°☿28'57	1°13'07
evening rise	2009 Jul 21 15:43	7°♊32'33		max. Earth dist.	2010 Jun 29 18:26	9°☿27'16	1.32714 AU
	2009 Aug 02 23:07	0°♋		evening rise	2010 Jul 05 15:45	21°☿57'05	
desc. node	2009 Aug 11 04:41	12°♋39'25			2010 Jul 09 16:29	0°♊	
evening max el	2009 Aug 24 16:15	28°♋55'07	27°21'57		2010 Jul 27 21:43	0°♋	
	2009 Aug 25 20:18	0°♌		desc. node	2010 Jul 29 01:43	1°♋33'11	
retrograde	2009 Sep 07 04:45	6°♌13'14		evening max el	2010 Aug 07 01:10	11°♋46'46	27°22'00
evening set	2009 Sep 14 07:19	3°♌31'08		retrograde	2010 Aug 20 19:59	19°♋03'32	
min. Earth dist.	2009 Sep 18 00:33	0°♌07'28	0.64257 AU	evening set	2010 Aug 28 00:51	16°♋34'05	
	2009 Sep 18 03:26	30°♋♋		min. Earth dist.	2010 Aug 31 14:55	13°♋39'27	0.62514 AU
inferior conj	2009 Sep 20 10:05	27°♋35'08	-3°00'15	inferior conj	2010 Sep 03 12:35	10°♋54'42	-3°53'15
minimum elong	2009 Sep 20 14:46	27°♋22'42	2°58'40	minimum elong	2010 Sep 03 17:57	10°♋41'59	3°51'52
morning rise	2009 Sep 26 23:15	22°♋10'31		morning rise	2010 Sep 10 12:31	5°♋48'49	
direct	2009 Sep 29 13:13	21°♋36'37		direct	2010 Sep 12 23:09	5°♋21'58	
asc. node	2009 Sep 29 20:54	21°♋37'09		asc. node	2010 Sep 16 17:57	6°♋28'10	
morning max el	2009 Oct 06 01:31	25°♋02'49	17°56'43	morning max el	2010 Sep 19 17:20	8°♋48'45	17°52'13
	2009 Oct 10 03:46	0°♌			2010 Oct 03 15:04	0°♌	
morning set	2009 Oct 23 05:29	21°♌12'55		morning set	2010 Oct 05 19:44	3°♌55'04	
	2009 Oct 28 10:09	0°♍					
superior conj	2009 Nov 05 08:02	13°♍02'26	0°12'22	superior conj	2010 Oct 17 01:05	23°♌33'46	0°52'48
minimum elong	2009 Nov 05 09:27	13°♍08'09	0°12'10	minimum elong	2010 Oct 17 05:27	23°♌52'17	0°52'13
behind sun begin	2009 Nov 05 02:39	12°♍40'38			2010 Oct 20 21:19	0°♍	
behind sun end	2009 Nov 05 16:15	13°♍35'38		max. Earth dist.	2010 Oct 24 01:46	5°♍13'10	1.43306 AU
desc. node	2009 Nov 07 03:59	15°♍59'40		desc. node	2010 Oct 25 01:02	6°♍47'13	
max. Earth dist.	2009 Nov 10 10:53	21°♍14'42	1.44545 AU	evening rise	2010 Oct 31 21:27	17°♍38'11	
	2009 Nov 16 00:28	0°♎			2010 Nov 08 23:43	0°♎	
evening rise	2009 Nov 21 12:15	8°♎30'26			2010 Dec 01 00:10	0°♏	
	2009 Dec 05 17:24	0°♏		evening max el	2010 Dec 01 15:42	0°♏40'24	21°27'14
evening max el	2009 Dec 18 17:39	17°♏09'53	20°17'43	retrograde	2010 Dec 10 12:04	5°♏56'09	
retrograde	2009 Dec 26 14:38	21°♏47'43		asc. node	2010 Dec 13 17:11	4°♏59'05	
asc. node	2009 Dec 26 20:09	21°♏47'25		evening set	2010 Dec 14 16:53	4°♏17'51	
evening set	2009 Dec 30 09:14	20°♏24'56			2010 Dec 18 14:53	30°♎♎	
inferior conj	2010 Jan 04 19:06	14°♏19'07	2°42'08	inferior conj	2010 Dec 20 01:23	28°♎02'17	2°02'18
minimum elong	2010 Jan 04 16:28	14°♏28'01	2°41'24	minimum elong	2010 Dec 19 23:01	28°♎10'27	2°01'28
min. Earth dist.	2010 Jan 05 12:54	13°♏18'55	0.67154 AU	min. Earth dist.	2010 Dec 20 07:14	27°♎42'03	0.67672 AU
morning rise	2010 Jan 09 23:32	8°♏05'47		morning rise	2010 Dec 25 05:00	21°♎49'36	
direct	2010 Jan 15 16:52	5°♏33'16		direct	2010 Dec 30 07:21	19°♎37'29	
morning max el	2010 Jan 27 05:23	12°♏25'43	24°45'10	morning max el	2011 Jan 09 14:26	25°♎44'52	23°16'55
desc. node	2010 Feb 03 03:09	20°♏19'15			2011 Jan 13 11:25	0°♏	
	2010 Feb 10 09:06	0°♐		desc. node	2011 Jan 21 00:13	9°♏37'47	
	2010 Mar 01 13:28	0°♑			2011 Feb 03 22:19	0°♐	
morning set	2010 Mar 04 07:33	4°♑48'05		morning set	2011 Feb 13 12:59	15°♐30'48	
max. Earth dist.	2010 Mar 07 23:13	11°♑22'52	1.37232 AU	max. Earth dist.	2011 Feb 17 17:56	22°♐41'57	1.39353 AU
					2011 Feb 21 20:53	0°♑	
superior conj	2010 Mar 14 13:16	23°♑50'59	-1°31'43	superior conj	2011 Feb 25 08:48	6°♑23'38	-1°52'15
minimum elong	2010 Mar 14 17:29	24°♑11'31	1°31'10	minimum elong	2011 Feb 25 12:44	6°♑41'56	1°51'56
	2010 Mar 17 16:12	0°♒		evening rise	2011 Mar 06 18:57	24°♑21'05	
evening rise	2010 Mar 23 01:12	10°♒45'26			2011 Mar 09 17:47	0°♒	
asc. node	2010 Mar 24 19:30	14°♒15'21		asc. node	2011 Mar 11 16:31	3°♒38'25	
	2010 Apr 02 13:06	0°♓		evening max el	2011 Mar 23 01:10	20°♒31'51	18°36'50
evening max el	2010 Apr 08 23:30	8°♓11'10	19°21'01	retrograde	2011 Mar 30 20:48	24°♒21'23	
retrograde	2010 Apr 18 04:06	12°♓37'54		evening set	2011 Apr 02 04:26	24°♒02'23	
evening set	2010 Apr 20 06:01	12°♓25'14		inferior conj	2011 Apr 09 19:36	19°♒36'31	2°24'10
inferior conj	2010 Apr 28 16:44	8°♓17'21	0°57'59	minimum elong	2011 Apr 09 23:37	19°♒28'47	2°23'05
minimum elong	2010 Apr 28 19:04	8°♓13'30	0°57'11	min. Earth dist.	2011 Apr 13 05:01	17°♒01'20	0.57889 AU
min. Earth dist.	2010 May 01 10:59	6°♓28'47	0.56142 AU	morning rise	2011 Apr 17 15:43	14°♒16'51	
desc. node	2010 May 02 02:21	6°♓04'40		desc. node	2011 Apr 18 23:22	13°♒43'16	
morning rise	2010 May 07 05:13	3°♓30'29		direct	2011 Apr 23 10:04	12°♒53'11	
direct	2010 May 11 22:27	2°♓39'34		morning max el	2011 May 07 19:05	20°♒29'55	26°33'03
morning max el	2010 May 26 02:23	9°♓51'24	25°07'48		2011 May 15 23:18	0°♓	
	2010 Jun 10 05:41	0°♔			2011 Jun 02 20:02	0°♔	

morning set	2011 Jun 05 23:26	6°♂27'40			2012 May 09 05:14	0°♂	
asc. node	2011 Jun 07 15:50	10°♂02'06		morning set	2012 May 20 07:12	21°♂08'24	
					2012 May 24 11:12	0°♂	
superior conj	2011 Jun 12 23:44	21°♂39'57	0°53'41	asc. node	2012 May 24 12:53	0°♂09'10	
minimum elong	2011 Jun 12 21:40	21°♂28'33	0°53'18	max. Earth dist.	2012 May 26 17:41	4°♂57'24	1.32199 AU
max. Earth dist.	2011 Jun 13 05:34	22°♂11'58	1.32264 AU				
	2011 Jun 16 19:09	0°♂		superior conj	2012 May 27 11:19	6°♂34'16	0°30'36
evening rise	2011 Jun 19 21:57	6°♂38'52		minimum elong	2012 May 27 10:00	6°♂26'58	0°30'19
	2011 Jul 02 05:38	0°♂		evening rise	2012 Jun 03 07:52	21°♂29'01	
desc. node	2011 Jul 15 22:43	19°♂29'43			2012 Jun 07 11:16	0°♂	
evening max el	2011 Jul 20 05:02	23°♂58'34	26°49'02		2012 Jun 26 02:24	0°♂	
	2011 Jul 28 17:59	0°♂		evening max el	2012 Jul 01 01:57	5°♂23'34	25°44'36
retrograde	2011 Aug 03 03:50	1°♂12'04		desc. node	2012 Jul 01 19:43	6°♂05'02	
	2011 Aug 08 09:46	30°♂♂		retrograde	2012 Jul 15 02:16	12°♂32'33	
evening set	2011 Aug 10 00:57	29°♂09'01		evening set	2012 Jul 21 02:56	11°♂06'24	
min. Earth dist.	2011 Aug 13 19:02	26°♂30'51	0.60526 AU	min. Earth dist.	2012 Jul 25 14:16	8°♂27'28	0.58467 AU
inferior conj	2011 Aug 17 01:04	23°♂48'52	-4°35'36	inferior conj	2012 Jul 28 19:57	6°♂07'41	-4°57'38
minimum elong	2011 Aug 17 05:32	23°♂39'33	4°34'55	minimum elong	2012 Jul 28 21:04	6°♂05'40	4°57'35
morning rise	2011 Aug 24 12:00	19°♂04'18		morning rise	2012 Aug 05 17:30	1°♂45'47	
direct	2011 Aug 26 22:03	18°♂41'48		direct	2012 Aug 08 05:40	1°♂25'37	
morning max el	2011 Sep 03 05:56	22°♂17'58	18°06'39	morning max el	2012 Aug 16 12:04	5°♂21'19	18°41'31
asc. node	2011 Sep 03 15:01	22°♂40'28		asc. node	2012 Aug 20 12:06	9°♂58'48	
	2011 Sep 09 05:58	0°♂			2012 Sep 01 02:32	0°♂	
morning set	2011 Sep 19 02:12	17°♂23'31		morning set	2012 Sep 01 20:10	1°♂25'37	
	2011 Sep 25 21:09	0°♂					
superior conj	2011 Sep 28 20:16	5°♂21'32	1°21'26	superior conj	2012 Sep 10 12:44	18°♂12'27	1°38'23
minimum elong	2011 Sep 29 00:25	5°♂40'08	1°21'00	minimum elong	2012 Sep 10 15:13	18°♂24'10	1°38'14
max. Earth dist.	2011 Oct 06 11:22	18°♂35'24	1.41571 AU		2012 Sep 16 23:22	0°♂	
evening rise	2011 Oct 11 20:16	27°♂25'29		max. Earth dist.	2012 Sep 17 16:38	1°♂16'20	1.39560 AU
desc. node	2011 Oct 11 22:04	27°♂32'44		evening rise	2012 Sep 21 18:04	8°♂16'53	
	2011 Oct 13 10:52	0°♂		desc. node	2012 Sep 27 19:05	18°♂12'44	
	2011 Nov 02 16:54	0°♂			2012 Oct 05 10:35	0°♂	
evening max el	2011 Nov 14 08:40	14°♂12'58	22°44'52	evening max el	2012 Oct 26 22:12	27°♂49'13	24°04'52
retrograde	2011 Nov 24 07:19	20°♂07'16			2012 Oct 29 06:18	0°♂	
evening set	2011 Nov 29 00:13	18°♂12'20		retrograde	2012 Nov 06 23:04	4°♂18'03	
asc. node	2011 Nov 30 14:14	16°♂41'02		evening set	2012 Nov 12 05:36	2°♂06'04	
inferior conj	2011 Dec 04 08:52	11°♂50'44	1°15'58		2012 Nov 14 07:42	30°♂♂	
minimum elong	2011 Dec 04 07:13	11°♂56'28	1°15'17	asc. node	2012 Nov 16 11:18	27°♂18'21	
min. Earth dist.	2011 Dec 04 03:47	12°♂08'19	0.67835 AU	min. Earth dist.	2012 Nov 17 00:08	26°♂35'18	0.67662 AU
morning rise	2011 Dec 09 14:05	5°♂40'46		inferior conj	2012 Nov 17 15:47	25°♂42'25	0°24'26
direct	2011 Dec 14 01:43	3°♂51'20		minimum elong	2012 Nov 17 15:12	25°♂44'25	0°24'10
morning max el	2011 Dec 23 03:09	9°♂10'30	21°50'30	morning rise	2012 Nov 23 00:46	19°♂37'29	
desc. node	2012 Jan 07 21:17	29°♂26'29		direct	2012 Nov 26 22:48	18°♂10'14	
	2012 Jan 08 06:34	0°♂		morning max el	2012 Dec 04 22:48	22°♂46'49	20°33'03
morning set	2012 Jan 24 13:16	24°♂49'10			2012 Dec 11 01:40	0°♂	
	2012 Jan 27 18:12	0°♂		desc. node	2012 Dec 24 18:20	19°♂37'01	
max. Earth dist.	2012 Jan 30 16:23	4°♂49'19	1.41469 AU		2012 Dec 31 14:03	0°♂	
				morning set	2013 Jan 02 13:59	3°♂05'20	
superior conj	2012 Feb 07 09:02	17°♂59'02	-2°03'55	max. Earth dist.	2013 Jan 11 22:53	17°♂54'24	1.43278 AU
minimum elong	2012 Feb 07 10:36	18°♂05'54	2°03'53				
	2012 Feb 14 01:38	0°♂		superior conj	2013 Jan 18 08:56	28°♂26'02	-2°01'48
evening rise	2012 Feb 18 00:57	7°♂18'46		minimum elong	2013 Jan 18 05:37	28°♂12'13	2°01'42
asc. node	2012 Feb 26 13:34	22°♂35'36			2013 Jan 19 07:25	0°♂	
	2012 Mar 02 11:41	0°♂		evening rise	2013 Jan 30 15:08	19°♂30'37	
evening max el	2012 Mar 05 09:35	3°♂20'36	18°12'35		2013 Feb 05 14:55	0°♂	
retrograde	2012 Mar 12 07:49	6°♂49'21		asc. node	2013 Feb 12 10:37	10°♂59'02	
evening set	2012 Mar 14 21:27	6°♂21'28		evening max el	2013 Feb 16 21:30	16°♂28'53	18°07'53
inferior conj	2012 Mar 21 19:21	1°♂34'38	3°16'38	retrograde	2013 Feb 23 09:41	19°♂52'28	
minimum elong	2012 Mar 21 22:19	1°♂27'57	3°16'08	evening set	2013 Feb 26 04:34	19°♂14'24	
	2012 Mar 23 13:22	30°♂♂		inferior conj	2013 Mar 04 12:58	14°♂06'42	3°40'13
min. Earth dist.	2012 Mar 25 04:07	28°♂35'16	0.59999 AU	minimum elong	2013 Mar 04 13:58	14°♂04'08	3°40'09
morning rise	2012 Mar 28 20:58	25°♂51'17		min. Earth dist.	2013 Mar 07 11:03	11°♂08'11	0.62123 AU
direct	2012 Apr 04 10:11	23°♂50'54		morning rise	2013 Mar 10 22:06	8°♂08'39	
desc. node	2012 Apr 04 20:25	23°♂51'23		direct	2013 Mar 17 20:03	5°♂37'59	
	2012 Apr 16 22:42	0°♂		desc. node	2013 Mar 22 17:29	6°♂44'56	
morning max el	2012 Apr 18 17:23	1°♂40'26	27°29'33	morning max el	2013 Mar 31 21:50	13°♂32'57	27°49'43
					2013 Apr 14 02:37	0°♂	

	2013 May 01 15:37	0°♄		morning max el	2014 Mar 14 06:30	26°♊03'18	27°33'10
morning set	2013 May 04 10:03	5°♄31'40			2014 Mar 17 22:24	0°♊	
max. Earth dist.	2013 May 10 02:59	17°♄30'58	1.32526 AU		2014 Apr 07 15:35	0°♊	
asc. node	2013 May 11 09:55	20°♄18'20		morning set	2014 Apr 18 05:29	19°♊29'45	
				max. Earth dist.	2014 Apr 23 05:29	29°♊40'12	1.33268 AU
					2014 Apr 23 09:16	0°♄	
superior conj	2013 May 11 21:10	21°♄19'26	0°04'58				
minimum elong	2013 May 11 20:56	21°♄18'10	0°04'55				
behind sun begin	2013 May 11 16:01	20°♄51'24		superior conj	2014 Apr 26 03:27	5°♄49'52	-0°22'25
behind sun end	2013 May 12 01:51	21°♄44'58		minimum elong	2014 Apr 26 04:34	5°♄55'49	0°22'11
	2013 May 15 20:41	0°♄		asc. node	2014 Apr 28 06:57	10°♄25'49	
evening rise	2013 May 18 19:33	6°♄20'56		evening rise	2014 May 03 07:07	21°♄08'26	
	2013 May 31 07:07	0°♄			2014 May 07 14:57	0°♄	
evening max el	2013 Jun 12 16:45	16°♄07'44	24°17'01	evening max el	2014 May 25 07:10	26°♄36'29	22°40'52
desc. node	2013 Jun 18 16:43	20°♄47'26			2014 May 29 09:12	0°♄	
retrograde	2013 Jun 26 13:08	23°♄06'51		desc. node	2014 Jun 05 13:44	3°♄01'35	
evening set	2013 Jul 01 05:25	22°♄18'06		retrograde	2014 Jun 07 11:56	3°♄10'03	
min. Earth dist.	2013 Jul 07 03:37	19°♄21'22	0.56622 AU	evening set	2014 Jun 10 17:02	2°♄47'22	
inferior conj	2013 Jul 09 18:41	17°♄42'25	-4°45'39		2014 Jun 17 10:04	30°♄	
minimum elong	2013 Jul 09 14:28	17°♄49'05	4°45'11	min. Earth dist.	2014 Jun 18 15:11	29°♄19'17	0.55334 AU
morning rise	2013 Jul 18 02:13	13°♄40'47		inferior conj	2014 Jun 19 22:50	28°♄34'04	-3°47'16
direct	2013 Jul 20 18:22	13°♄21'42		minimum elong	2014 Jun 19 15:00	28°♄45'17	3°45'20
morning max el	2013 Jul 30 08:48	17°♄49'18	19°37'45	morning rise	2014 Jun 28 15:16	24°♄42'17	
asc. node	2013 Aug 07 09:10	28°♄08'29		direct	2014 Jul 01 12:50	24°♄22'53	
	2013 Aug 08 12:13	0°♄		morning max el	2014 Jul 12 18:22	29°♄35'33	20°54'48
morning set	2013 Aug 16 22:02	15°♄51'10			2014 Jul 13 04:45	0°♄	
	2013 Aug 23 22:37	0°♄		asc. node	2014 Jul 25 06:12	16°♄57'36	
					2014 Jul 31 22:46	0°♄	
superior conj	2013 Aug 24 20:56	1°♄50'36	1°45'20	morning set	2014 Aug 01 05:12	0°♄33'06	
minimum elong	2013 Aug 24 21:32	1°♄53'33	1°45'19				
max. Earth dist.	2013 Aug 30 20:51	13°♄21'32	1.37525 AU	superior conj	2014 Aug 08 16:21	16°♄03'01	1°44'07
evening rise	2013 Sep 03 15:23	20°♄14'00		minimum elong	2014 Aug 08 15:25	15°♄58'14	1°44'05
	2013 Sep 09 07:07	0°♄		max. Earth dist.	2014 Aug 13 05:24	25°♄12'06	1.35699 AU
desc. node	2013 Sep 14 16:04	8°♄42'34			2014 Aug 15 16:44	0°♄	
	2013 Sep 29 11:38	0°♄		evening rise	2014 Aug 17 08:32	3°♄08'22	
evening max el	2013 Oct 09 10:11	11°♄28'12	25°20'24	desc. node	2014 Sep 01 13:05	28°♄57'00	
retrograde	2013 Oct 21 10:29	18°♄23'39			2014 Sep 02 05:38	0°♄	
evening set	2013 Oct 27 07:22	15°♄56'01		evening max el	2014 Sep 21 22:10	25°♄06'48	26°24'00
min. Earth dist.	2013 Oct 31 17:52	11°♄00'06	0.67157 AU		2014 Sep 27 22:39	0°♄	
inferior conj	2013 Nov 01 20:19	9°♄34'24	-0°31'03	retrograde	2014 Oct 04 17:02	2°♄18'45	
minimum elong	2013 Nov 01 21:07	9°♄31'50	0°30'42		2014 Oct 10 17:27	30°♄	
asc. node	2013 Nov 03 08:21	7°♄39'49		evening set	2014 Oct 11 03:37	29°♄39'27	
morning rise	2013 Nov 07 11:05	3°♄37'02		min. Earth dist.	2014 Oct 15 06:44	25°♄19'39	0.66308 AU
direct	2013 Nov 10 21:12	2°♄29'30		inferior conj	2014 Oct 16 20:40	23°♄24'11	-1°28'57
morning max el	2013 Nov 18 02:22	6°♄33'43	19°28'42	minimum elong	2014 Oct 16 23:02	23°♄16'59	1°27'58
greatest brilliancy	2013 Dec 01 12:56	24°♄34'38	-0.7m	asc. node	2014 Oct 21 05:23	18°♄42'47	
	2013 Dec 05 02:42	0°♄		morning rise	2014 Oct 22 18:58	17°♄37'01	
desc. node	2013 Dec 11 15:20	10°♄02'41		direct	2014 Oct 25 19:17	16°♄45'36	
morning set	2013 Dec 12 12:14	11°♄23'33		morning max el	2014 Nov 01 12:39	20°♄28'08	18°39'45
	2013 Dec 24 10:12	0°♄			2014 Nov 08 23:09	0°♄	
max. Earth dist.	2013 Dec 25 12:24	1°♄43'31	1.44542 AU	morning set	2014 Nov 22 07:20	20°♄49'01	
					2014 Nov 28 02:26	0°♄	
superior conj	2013 Dec 29 06:27	7°♄41'42	-1°41'29	desc. node	2014 Nov 28 12:22	0°♄39'13	
minimum elong	2013 Dec 28 22:16	7°♄08'59	1°40'48				
	2014 Jan 11 21:35	0°♄		superior conj	2014 Dec 08 09:51	16°♄13'03	-1°03'05
evening rise	2014 Jan 12 09:05	0°♄48'06		minimum elong	2014 Dec 08 02:10	15°♄42'52	1°02'09
asc. node	2014 Jan 30 07:38	28°♄38'01		max. Earth dist.	2014 Dec 08 05:59	15°♄57'50	1.45121 AU
evening max el	2014 Jan 31 09:58	29°♄48'41	18°22'12		2014 Dec 17 03:53	0°♄	
	2014 Jan 31 14:29	0°♄		evening rise	2014 Dec 24 03:50	11°♄07'47	
retrograde	2014 Feb 06 21:43	3°♄20'15		greatest brilliancy	2015 Jan 01 02:55	23°♄50'56	-0.8m
evening set	2014 Feb 09 21:47	2°♄31'13			2015 Jan 05 01:08	0°♄	
	2014 Feb 13 03:30	30°♄		evening max el	2015 Jan 14 20:31	13°♄14'49	18°54'30
inferior conj	2014 Feb 15 20:22	27°♄04'21	3°41'59	asc. node	2015 Jan 17 04:39	15°♄19'57	
minimum elong	2014 Feb 15 19:34	27°♄06'37	3°41'57	retrograde	2015 Jan 21 15:54	17°♄05'16	
min. Earth dist.	2014 Feb 18 03:36	24°♄26'48	0.64011 AU	evening set	2015 Jan 24 21:58	16°♄04'17	
morning rise	2014 Feb 21 16:41	20°♄57'50		inferior conj	2015 Jan 30 13:45	10°♄20'25	3°27'45
direct	2014 Feb 28 14:00	18°♄09'42		minimum elong	2015 Jan 30 11:46	10°♄26'36	3°27'28
desc. node	2014 Mar 09 14:30	21°♄55'19		min. Earth dist.	2015 Feb 01 05:34	8°♄16'36	0.65547 AU

morning rise	2015 Feb 05 01:13	4° \approx 09'25		minimum elong	2016 Jan 14 11:31	23° \approx 58'22	3°00'57
direct	2015 Feb 11 14:57	1° \approx 18'01		min. Earth dist.	2016 Jan 15 15:33	22° \approx 25'50	0.66684 AU
desc. node	2015 Feb 24 11:32	8° \approx 47'07		morning rise	2016 Jan 19 20:11	17° \approx 36'57	
morning max el	2015 Feb 24 16:23	8° \approx 59'15	26°44'46	direct	2016 Jan 25 21:50	14° \approx 54'42	
	2015 Mar 13 03:52	0° \approx		morning max el	2016 Feb 07 01:24	22° \approx 08'49	25°33'02
	2015 Mar 31 01:44	0° \approx		desc. node	2016 Feb 11 08:35	26° \approx 51'37	
morning set	2015 Apr 01 14:07	2° \approx 51'40			2016 Feb 13 22:43	0° \approx	
max. Earth dist.	2015 Apr 05 21:19	11° \approx 15'08	1.34462 AU		2016 Mar 05 10:23	0° \approx	
				morning set	2016 Mar 14 07:32	15° \approx 24'26	
superior conj	2015 Apr 10 04:00	19° \approx 58'19	-0°50'24	max. Earth dist.	2016 Mar 18 01:24	22° \approx 21'38	1.36112 AU
minimum elong	2015 Apr 10 06:33	20° \approx 11'33	0°49'56		2016 Mar 22 00:19	0° \approx	
	2015 Apr 14 22:51	0° \approx					
asc. node	2015 Apr 15 03:58	0° \approx 26'52		superior conj	2016 Mar 23 20:11	3° \approx 37'29	-1°17'26
evening rise	2015 Apr 17 16:40	5° \approx 44'27		minimum elong	2016 Mar 23 23:58	3° \approx 56'24	1°16'51
	2015 May 01 02:00	0° \approx		evening rise	2016 Mar 31 22:08	20° \approx 02'51	
evening max el	2015 May 07 04:50	7° \approx 21'14	21°10'37	asc. node	2016 Apr 01 01:00	20° \approx 17'24	
retrograde	2015 May 19 01:49	13° \approx 08'53			2016 Apr 05 23:09	0° \approx	
evening set	2015 May 21 07:55	12° \approx 57'06		evening max el	2016 Apr 18 13:59	18° \approx 42'15	19°55'33
desc. node	2015 May 23 10:45	12° \approx 25'55		retrograde	2016 Apr 28 17:20	23° \approx 36'07	
inferior conj	2015 May 30 16:56	8° \approx 58'21	-2°05'03	evening set	2016 Apr 30 17:52	23° \approx 25'18	
minimum elong	2015 May 30 11:09	9° \approx 06'29	2°03'04	desc. node	2016 May 09 07:46	19° \approx 36'20	
min. Earth dist.	2015 May 31 03:30	8° \approx 43'27	0.54902 AU	inferior conj	2016 May 09 15:12	19° \approx 25'01	-0°05'25
morning rise	2015 Jun 08 14:34	4° \approx 57'50		minimum elong	2016 May 09 14:57	19° \approx 25'23	0°05'19
direct	2015 Jun 11 22:33	4° \approx 33'47		transit middle	2016 May 09 14:57	19° \approx 25'23	0°05'19
morning max el	2015 Jun 24 17:08	10° \approx 38'41	22°28'47	transit begin	2016 May 09 11:12	19° \approx 31'06	
	2015 Jul 08 18:52	0° \approx		transit end	2016 May 09 18:42	19° \approx 19'40	
asc. node	2015 Jul 12 03:14	6° \approx 15'40		min. Earth dist.	2016 May 11 17:07	18° \approx 09'13	0.55443 AU
morning set	2015 Jul 16 15:31	15° \approx 24'31		morning rise	2016 May 18 09:54	14° \approx 58'03	
				direct	2016 May 22 13:20	14° \approx 20'16	
superior conj	2015 Jul 23 19:24	0° \approx 37'55	1°36'19	morning max el	2016 Jun 05 08:45	21° \approx 11'20	24°10'46
minimum elong	2015 Jul 23 17:28	0° \approx 27'42	1°36'08		2016 Jun 12 23:22	0° \approx	
	2015 Jul 23 12:14	0° \approx		asc. node	2016 Jun 28 00:17	25° \approx 55'13	
max. Earth dist.	2015 Jul 26 22:29	7° \approx 11'15	1.34226 AU		2016 Jun 29 23:24	0° \approx	
evening rise	2015 Jul 31 16:48	16° \approx 46'43		morning set	2016 Jun 30 03:15	0° \approx 20'18	
	2015 Aug 07 19:15	0° \approx					
desc. node	2015 Aug 19 10:07	18° \approx 48'12		superior conj	2016 Jul 07 03:24	15° \approx 27'03	1°23'07
	2015 Aug 27 15:44	0° \approx		minimum elong	2016 Jul 07 01:01	15° \approx 14'10	1°22'49
evening max el	2015 Sep 04 10:19	8° \approx 36'57	27°08'12	max. Earth dist.	2016 Jul 09 00:48	19° \approx 31'44	1.33157 AU
retrograde	2015 Sep 17 18:09	15° \approx 55'16			2016 Jul 14 00:47	0° \approx	
evening set	2015 Sep 24 15:59	13° \approx 11'33		evening rise	2016 Jul 14 12:05	0° \approx 57'23	
min. Earth dist.	2015 Sep 28 12:27	9° \approx 27'51	0.65102 AU		2016 Jul 30 18:18	0° \approx	
inferior conj	2015 Sep 30 14:38	7° \approx 07'06	-2°27'25	desc. node	2016 Aug 05 07:08	8° \approx 06'24	
minimum elong	2015 Sep 30 18:34	6° \approx 56'04	2°25'57	evening max el	2016 Aug 16 21:21	21° \approx 47'08	27°25'58
morning rise	2015 Oct 06 22:00	1° \approx 33'10		retrograde	2016 Aug 30 13:04	29° \approx 04'39	
asc. node	2015 Oct 08 02:25	1° \approx 06'27		evening set	2016 Sep 06 17:26	26° \approx 26'41	
direct	2015 Oct 09 14:57	0° \approx 53'58		min. Earth dist.	2016 Sep 10 08:56	23° \approx 16'07	0.63549 AU
morning max el	2015 Oct 16 03:16	4° \approx 24'01	18°07'25	inferior conj	2016 Sep 12 23:40	20° \approx 37'19	-3°23'37
	2015 Nov 02 07:06	0° \approx		minimum elong	2016 Sep 13 04:46	20° \approx 24'21	3°22'03
morning set	2015 Nov 03 07:45	1° \approx 42'04		morning rise	2016 Sep 19 17:18	15° \approx 19'55	
desc. node	2015 Nov 15 09:25	21° \approx 22'46		direct	2016 Sep 22 05:31	14° \approx 49'21	
				asc. node	2016 Sep 23 23:29	15° \approx 04'30	
superior conj	2015 Nov 17 14:53	24° \approx 55'55	-0°14'57	morning max el	2016 Sep 28 19:27	18° \approx 15'02	17°52'31
minimum elong	2015 Nov 17 13:00	24° \approx 48'24	0°14'41		2016 Oct 07 07:56	0° \approx	
behind sun begin	2015 Nov 17 08:21	24° \approx 29'58		morning set	2016 Oct 15 10:02	13° \approx 49'57	
behind sun end	2015 Nov 17 17:38	25° \approx 06'50			2016 Oct 24 20:46	0° \approx	
	2015 Nov 20 19:43	0° \approx					
max. Earth dist.	2015 Nov 21 00:49	0° \approx 20'04	1.44960 AU	superior conj	2016 Oct 27 16:16	4° \approx 40'28	0°30'51
evening rise	2015 Dec 04 00:49	20° \approx 36'52		minimum elong	2016 Oct 27 19:25	4° \approx 53'24	0°30'24
	2015 Dec 10 02:34	0° \approx		desc. node	2016 Nov 01 06:28	12° \approx 09'31	
greatest brilliancy	2015 Dec 17 02:01	10° \approx 33'54	-0.7m	max. Earth dist.	2016 Nov 02 18:18	14° \approx 33'25	1.44090 AU
evening max el	2015 Dec 29 03:12	26° \approx 44'21	19°43'14	evening rise	2016 Nov 12 09:40	29° \approx 40'45	
	2016 Jan 02 02:20	0° \approx			2016 Nov 12 14:40	0° \approx	
asc. node	2016 Jan 04 01:41	0° \approx 50'36			2016 Dec 02 21:18	0° \approx	
retrograde	2016 Jan 05 13:06	1° \approx 02'37		evening max el	2016 Dec 11 04:39	10° \approx 14'49	20°46'05
	2016 Jan 08 19:36	30° \approx 38'38		retrograde	2016 Dec 19 10:55	15° \approx 07'52	
evening set	2016 Jan 09 02:37	29° \approx 38'19		asc. node	2016 Dec 20 22:44	14° \approx 55'26	
inferior conj	2016 Jan 14 14:05	23° \approx 49'55	3°01'34	evening set	2016 Dec 23 09:41	13° \approx 38'38	





































































































































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minimum elong	2016 Dec 28 16:13	7°♄37'19	2°25'19	evening set	2017 Dec 07 17:25	27°♄32'39	
min. Earth dist.	2016 Dec 29 07:22	6°♄45'28	0.67423 AU	asc. node	2017 Dec 07 19:47	27°♄27'50	
morning rise	2017 Jan 02 22:34	1°♄15'25		inferior conj	2017 Dec 13 01:49	21°♄14'04	1°43'22
	2017 Jan 04 14:17	30°♄♄		minimum elong	2017 Dec 12 23:42	21°♄21'23	1°42'34
direct	2017 Jan 08 09:43	28°♄50'56		min. Earth dist.	2017 Dec 13 02:51	21°♄10'29	0.67787 AU
	2017 Jan 12 14:03	0°♄		morning rise	2017 Dec 18 05:51	15°♄02'32	
morning max el	2017 Jan 19 09:43	5°♄24'29	24°07'57	direct	2017 Dec 23 01:51	13°♄00'08	
desc. node	2017 Jan 28 05:39	15°♄47'17		morning max el	2018 Jan 01 19:58	18°♄46'18	22°39'32
	2017 Feb 07 09:35	0°♄			2018 Jan 11 05:09	0°♄	
morning set	2017 Feb 24 03:52	26°♄51'20		desc. node	2018 Jan 15 02:43	5°♄19'45	
	2017 Feb 25 23:07	0°♄			2018 Jan 31 13:39	0°♄	
max. Earth dist.	2017 Feb 27 21:38	3°♄26'30	1.38124 AU	morning set	2018 Feb 04 21:08	6°♄58'07	
				max. Earth dist.	2018 Feb 09 17:42	15°♄05'46	1.40279 AU
superior conj	2017 Mar 07 00:29	16°♄37'27	-1°41'15	superior conj	2018 Feb 17 12:27	28°♄47'13	-1°58'33
minimum elong	2017 Mar 07 04:46	16°♄57'58	1°40'45	minimum elong	2018 Feb 17 15:42	29°♄01'57	1°58'22
	2017 Mar 13 21:07	0°♄			2018 Feb 18 04:28	0°♄	
evening rise	2017 Mar 15 21:00	3°♄56'08		evening rise	2018 Feb 27 10:15	17°♄16'56	
asc. node	2017 Mar 18 22:03	9°♄51'59		asc. node	2018 Mar 05 19:05	29°♄04'59	
	2017 Mar 31 17:31	0°♄			2018 Mar 06 07:34	0°♄	
evening max el	2017 Apr 01 10:18	0°♄42'12	18°59'41	evening max el	2018 Mar 15 15:10	13°♄15'29	18°23'59
retrograde	2017 Apr 09 23:14	4°♄50'51		retrograde	2018 Mar 23 00:19	16°♄54'28	
evening set	2017 Apr 12 03:36	4°♄35'44		evening set	2018 Mar 25 10:31	16°♄31'56	
inferior conj	2017 Apr 20 05:54	0°♄20'38	1°38'42	inferior conj	2018 Apr 01 17:53	11°♄56'51	2°50'24
minimum elong	2017 Apr 20 09:23	0°♄14'30	1°37'36	minimum elong	2018 Apr 01 21:41	11°♄49'02	2°49'32
	2017 Apr 20 17:37	30°♄♄		min. Earth dist.	2018 Apr 05 04:28	9°♄08'29	0.58765 AU
min. Earth dist.	2017 Apr 23 08:43	28°♄10'18	0.56827 AU	morning rise	2018 Apr 09 06:05	6°♄25'45	
desc. node	2017 Apr 26 04:48	26°♄25'27		desc. node	2018 Apr 13 01:51	5°♄00'46	
morning rise	2017 Apr 28 12:07	25°♄19'27		direct	2018 Apr 15 09:21	4°♄46'39	
direct	2017 May 03 16:33	24°♄15'49		morning max el	2018 Apr 29 18:24	12°♄29'37	27°01'20
	2017 May 16 04:07	0°♄			2018 May 13 12:40	0°♄	
morning max el	2017 May 17 23:24	1°♄39'02	25°46'51		2018 May 29 23:49	0°♄	
	2017 Jun 06 22:15	0°♄		morning set	2018 May 30 00:29	0°♄03'31	
morning set	2017 Jun 14 14:49	15°♄15'24		asc. node	2018 Jun 01 18:23	5°♄53'58	
asc. node	2017 Jun 14 21:21	15°♄49'55					
	2017 Jun 21 09:57	0°♄		superior conj	2018 Jun 06 02:02	15°♄20'27	0°44'15
superior conj	2017 Jun 21 14:14	0°♄23'28	1°05'31	minimum elong	2018 Jun 06 00:14	15°♄10'31	0°43'53
minimum elong	2017 Jun 21 11:55	0°♄10'46	1°05'08	max. Earth dist.	2018 Jun 05 22:02	14°♄58'27	1.32188 AU
max. Earth dist.	2017 Jun 22 09:54	2°♄11'12	1.32480 AU	evening rise	2018 Jun 12 23:07	0°♄16'28	
evening rise	2017 Jun 28 15:05	15°♄30'23			2018 Jun 12 20:00	0°♄	
	2017 Jul 06 00:20	0°♄			2018 Jun 29 05:16	0°♄	
desc. node	2017 Jul 23 04:08	26°♄38'11		desc. node	2018 Jul 10 01:09	14°♄03'38	
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evening max el	2017 Jul 30 04:39	4°♄23'52	27°12'07	retrograde	2018 Jul 26 05:02	23°♄27'22	
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evening set	2017 Aug 20 04:09	9°♄18'43		min. Earth dist.	2018 Aug 05 18:35	19°♄02'55	0.59644 AU
min. Earth dist.	2017 Aug 23 18:51	6°♄33'00	0.61692 AU	inferior conj	2018 Aug 09 02:06	16°♄27'42	-4°48'11
inferior conj	2017 Aug 26 20:42	3°♄47'36	-4°13'01	minimum elong	2018 Aug 09 05:28	16°♄21'04	4°47'50
minimum elong	2017 Aug 27 01:56	3°♄35'50	4°11'53	morning rise	2018 Aug 16 17:41	11°♄53'09	
	2017 Aug 31 15:28	30°♄♄		direct	2018 Aug 19 04:25	11°♄31'48	
morning rise	2017 Sep 03 01:18	28°♄50'20		morning max el	2018 Aug 26 20:34	15°♄14'30	18°18'59
direct	2017 Sep 05 11:29	28°♄25'28		asc. node	2018 Aug 28 17:38	17°♄14'21	
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morning max el	2017 Sep 12 10:17	1°♄54'51	17°55'59	superior conj	2018 Sep 21 01:52	28°♄02'36	1°29'58
morning set	2017 Sep 28 07:55	26°♄54'12		minimum elong	2018 Sep 21 05:24	28°♄18'45	1°29'39
	2017 Sep 30 00:42	0°♄			2018 Sep 22 03:39	0°♄	
superior conj	2017 Oct 08 20:54	15°♄45'43	1°06'26	max. Earth dist.	2018 Sep 28 15:15	11°♄25'25	1.40730 AU
minimum elong	2017 Oct 09 01:28	16°♄05'30	1°05'53	evening rise	2018 Oct 03 06:57	19°♄13'45	
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desc. node	2017 Oct 19 03:30	2°♄56'37			2018 Oct 31 04:38	0°♄	
evening rise	2017 Oct 22 22:59	9°♄01'18		evening max el	2018 Nov 06 15:32	7°♄19'15	23°18'56
	2017 Nov 05 19:19	0°♄		retrograde	2018 Nov 17 01:33	13°♄29'30	
evening max el	2017 Nov 24 00:27	23°♄46'13	21°59'32	evening set	2018 Nov 22 00:08	11°♄27'02	

asc. node	2018 Nov 24 16:50	8°♊37'28		evening set	2019 Nov 06 04:11	25°♍19'25	
inferior conj	2018 Nov 27 09:15	5°♊03'49	0°54'39	min. Earth dist.	2019 Nov 10 19:12	20°♍03'02	0.67483 AU
minimum elong	2018 Nov 27 08:00	5°♊08'06	0°54'08	inferior conj	2019 Nov 11 15:22	18°♍55'51	0°01'16
min. Earth dist.	2018 Nov 26 23:35	5°♊37'03	0.67799 AU	minimum elong	2019 Nov 11 15:20	18°♍55'58	0°01'16
	2018 Dec 01 11:12	30°♌		transit middle	2019 Nov 11 15:20	18°♍55'58	0°01'16
morning rise	2018 Dec 02 15:49	28°♍55'47		transit begin	2019 Nov 11 12:35	19°♍05'06	
direct	2018 Dec 06 21:22	27°♍16'14		transit end	2019 Nov 11 18:04	18°♍46'50	
	2018 Dec 12 23:43	0°♊		asc. node	2019 Nov 11 13:53	19°♍00'45	
morning max el	2018 Dec 15 11:30	2°♊16'32	21°16'12	morning rise	2019 Nov 17 02:34	12°♍53'36	
desc. node	2019 Jan 01 23:46	25°♊18'23		direct	2019 Nov 20 19:12	11°♍35'11	
	2019 Jan 05 03:40	0°♊		morning max el	2019 Nov 28 10:29	15°♍57'11	20°03'49
morning set	2019 Jan 15 09:51	15°♊45'09			2019 Dec 09 09:42	0°♊	
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	2019 Jan 24 05:49	0°♊		morning set	2019 Dec 25 06:07	23°♊51'52	
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minimum elong	2019 Jan 30 02:37	9°♊53'22	2°05'01				
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minimum elong	2019 Mar 15 03:58	24°♊06'09	3°29'27	retrograde	2020 Feb 17 00:54	12°♊53'23	
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morning rise	2019 Mar 21 19:58	18°♊20'24		inferior conj	2020 Feb 26 01:45	6°♊55'08	3°43'13
direct	2019 Mar 28 13:59	16°♊05'45		minimum elong	2020 Feb 26 01:56	6°♊54'38	3°43'13
desc. node	2019 Mar 30 22:54	16°♊21'24		min. Earth dist.	2020 Feb 28 17:55	4°♊03'11	0.62960 AU
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	2019 May 06 18:25	0°♊		direct	2020 Mar 10 03:49	28°♌12'42	
morning set	2019 May 14 06:28	14°♌38'38			2020 Mar 16 07:43	0°♊	
asc. node	2019 May 19 15:25	26°♌02'59		desc. node	2020 Mar 16 19:56	0°♊17'20	
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	2019 May 21 10:52	0°♌			2020 Apr 11 04:48	0°♊	
				morning set	2020 Apr 27 06:29	28°♊52'23	
superior conj	2019 May 21 13:07	0°♌12'20	0°20'00		2020 Apr 27 19:53	0°♊	
minimum elong	2019 May 21 12:13	0°♌07'24	0°19'49	max. Earth dist.	2020 May 02 16:04	10°♌04'38	1.32787 AU
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	2019 Jun 04 20:05	0°♌		superior conj	2020 May 04 21:41	14°♌52'20	-0°06'30
evening max el	2019 Jun 23 23:16	27°♌21'01	25°09'23	minimum elong	2020 May 04 22:00	14°♌54'02	0°06'26
desc. node	2019 Jun 26 22:08	29°♌55'42		behind sun begin	2020 May 04 17:11	14°♌28'01	
	2019 Jun 27 00:19	0°♌		behind sun end	2020 May 05 02:49	15°♌20'04	
retrograde	2019 Jul 07 23:14	4°♌27'54		asc. node	2020 May 05 12:26	16°♌12'04	
evening set	2019 Jul 13 11:10	3°♌18'14		evening rise	2020 May 11 21:52	29°♌59'30	
min. Earth dist.	2019 Jul 18 10:59	0°♌33'28	0.57635 AU		2020 May 11 21:58	0°♌	
	2019 Jul 19 07:06	30°♌			2020 May 28 18:09	0°♌	
inferior conj	2019 Jul 21 12:34	28°♌28'41	-4°57'36	evening max el	2020 Jun 04 13:07	7°♌55'26	23°36'18
minimum elong	2019 Jul 21 11:32	28°♌30'27	4°57'34	desc. node	2020 Jun 12 19:09	13°♌39'24	
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direct	2019 Aug 01 03:58	23°♌56'51		evening set	2020 Jun 22 05:28	14°♌10'22	
morning max el	2019 Aug 09 23:08	28°♌04'37	19°02'47	min. Earth dist.	2020 Jun 28 23:30	11°♌01'36	0.55989 AU
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asc. node	2019 Aug 15 14:41	4°♌56'19		minimum elong	2020 Jun 30 20:36	9°♌54'04	4°25'53
morning set	2019 Aug 26 17:25	24°♌51'01		morning rise	2020 Jul 09 14:20	5°♌48'31	
	2019 Aug 29 07:48	0°♌		direct	2020 Jul 12 08:26	5°♌29'34	
				morning max el	2020 Jul 22 15:12	10°♌15'27	20°08'00
superior conj	2019 Sep 04 01:40	11°♌15'31	1°42'26	asc. node	2020 Aug 01 11:42	23°♌24'07	
minimum elong	2019 Sep 04 03:20	11°♌23'31	1°42'21		2020 Aug 05 03:32	0°♌	
max. Earth dist.	2019 Sep 10 18:53	23°♌47'00	1.38681 AU	morning set	2020 Aug 09 21:50	9°♌24'22	
	2019 Sep 14 07:14	0°♌					
evening rise	2019 Sep 14 15:02	0°♌33'47		superior conj	2020 Aug 17 15:07	25°♌09'36	1°45'42
desc. node	2019 Sep 22 21:29	14°♌16'05		minimum elong	2020 Aug 17 15:01	25°♌09'03	1°45'42
	2019 Oct 03 08:14	0°♌			2020 Aug 20 01:30	0°♌	
evening max el	2019 Oct 20 04:02	20°♌56'13	24°38'00	max. Earth dist.	2020 Aug 23 00:10	5°♌42'26	1.36718 AU
retrograde	2019 Oct 31 15:41	27°♌38'16		evening rise	2020 Aug 26 21:24	12°♌57'13	

































































































































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desc. node	2020 Sep 08 18:29	4°♄40'14			2021 Aug 30 05:10	0°♄	
	2020 Sep 27 07:41	0°♄		evening max el	2021 Sep 14 04:25	18°♄13'37	26°45'39
evening max el	2020 Oct 01 16:06	4°♄36'40	25°49'28	retrograde	2021 Sep 27 05:10	25°♄28'25	
retrograde	2020 Oct 14 01:05	11°♄40'10		evening set	2021 Oct 03 21:02	22°♄46'21	
evening set	2020 Oct 20 03:50	9°♄07'17		min. Earth dist.	2021 Oct 07 21:18	18°♄42'05	0.65842 AU
min. Earth dist.	2020 Oct 24 11:16	4°♄26'20	0.66836 AU	inferior conj	2021 Oct 09 16:18	16°♄35'27	-1°53'48
inferior conj	2020 Oct 25 18:23	2°♄47'51	-0°55'24	minimum elong	2021 Oct 09 19:21	16°♄26'29	1°52'35
minimum elong	2020 Oct 25 19:50	2°♄43'17	0°54'46	asc. node	2021 Oct 15 07:58	11°♄08'04	
asc. node	2020 Oct 28 10:56	29°♄33'56		morning rise	2021 Oct 15 18:17	10°♄53'29	
	2020 Oct 28 01:33	30°♄		direct	2021 Oct 18 15:17	10°♄07'35	
morning rise	2020 Oct 31 12:07	26°♄54'11		morning max el	2021 Oct 25 05:30	13°♄43'23	18°23'57
direct	2020 Nov 03 17:50	25°♄53'50			2021 Nov 05 22:35	0°♄	
morning max el	2020 Nov 10 17:03	29°♄47'38	19°05'52	morning set	2021 Nov 13 18:39	12°♄36'34	
	2020 Nov 10 21:55	0°♄		desc. node	2021 Nov 22 14:49	26°♄46'34	
	2020 Dec 01 19:51	0°♄			2021 Nov 24 15:36	0°♄	
morning set	2020 Dec 03 11:08	2°♄33'14		superior conj	2021 Nov 29 04:39	7°♄10'05	-0°43'06
desc. node	2020 Dec 05 17:48	6°♄06'38		minimum elong	2021 Nov 28 23:07	6°♄48'17	0°42'22
max. Earth dist.	2020 Dec 17 20:00	25°♄03'19	1.44878 AU	max. Earth dist.	2021 Nov 30 15:08	9°♄25'35	1.45148 AU
					2021 Dec 13 17:52	0°♄	
superior conj	2020 Dec 20 03:26	28°♄42'04	-1°27'07	evening rise	2021 Dec 15 09:16	2°♄34'54	
minimum elong	2020 Dec 19 18:34	28°♄07'03	1°26'13	greatest brilliancy	2021 Dec 25 17:46	18°♄48'36	-0.8m
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evening rise	2021 Jan 04 00:22	22°♄38'23		evening max el	2022 Jan 07 11:04	6°♄19'08	19°13'19
	2021 Jan 08 12:00	0°♄		asc. node	2022 Jan 11 07:15	9°♄25'27	
evening max el	2021 Jan 24 01:57	22°♄51'29	18°33'52	retrograde	2022 Jan 14 11:41	10°♄20'15	
asc. node	2021 Jan 24 10:12	23°♄12'05		evening set	2022 Jan 17 20:49	9°♄13'35	
retrograde	2021 Jan 30 15:52	26°♄29'27		inferior conj	2022 Jan 23 10:28	3°♄22'59	3°17'55
evening set	2021 Feb 02 18:27	25°♄35'20		minimum elong	2022 Jan 23 08:10	3°♄30'22	3°17'29
inferior conj	2021 Feb 08 13:48	20°♄01'05	3°37'37	min. Earth dist.	2022 Jan 24 19:54	1°♄36'01	0.66081 AU
minimum elong	2021 Feb 08 12:26	20°♄05'10	3°37'30		2022 Jan 26 03:05	30°♄	
min. Earth dist.	2021 Feb 10 14:25	17°♄36'53	0.64716 AU	morning rise	2022 Jan 28 19:16	27°♄11'02	
morning rise	2021 Feb 14 05:55	13°♄52'37		direct	2022 Feb 04 04:13	24°♄22'35	
direct	2021 Feb 21 00:52	11°♄01'22			2022 Feb 14 21:54	0°♄	
desc. node	2021 Mar 03 16:59	16°♄14'46		morning max el	2022 Feb 16 21:07	1°♄53'30	26°16'37
morning max el	2021 Mar 06 11:22	18°♄50'30	27°16'00	desc. node	2022 Feb 18 14:02	3°♄40'16	
	2021 Mar 15 22:26	0°♄			2022 Mar 10 01:32	0°♄	
	2021 Apr 04 03:41	0°♄		morning set	2022 Mar 25 00:33	25°♄38'37	
morning set	2021 Apr 10 21:45	12°♄36'05			2022 Mar 27 07:45	0°♄	
max. Earth dist.	2021 Apr 15 14:20	21°♄59'22	1.33724 AU	max. Earth dist.	2022 Mar 29 01:24	3°♄21'43	1.35111 AU
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minimum elong	2021 Apr 19 03:33	29°♄23'22	0°33'56	minimum elong	2022 Apr 03 02:18	13°♄27'08	1°01'32
	2021 Apr 19 10:29	0°♄		asc. node	2022 Apr 09 06:32	26°♄14'46	
asc. node	2021 Apr 22 09:28	6°♄17'21		evening rise	2022 Apr 10 16:55	29°♄12'32	
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evening set	2021 Jun 01 15:58	24°♄26'30		desc. node	2022 May 17 13:13	3°♄01'03	
min. Earth dist.	2021 Jun 10 10:59	20°♄41'20	0.55043 AU	inferior conj	2022 May 21 19:18	0°♄43'06	-1°14'22
inferior conj	2021 Jun 11 01:13	20°♄21'23	-3°08'12	minimum elong	2022 May 21 15:47	0°♄48'11	1°13'04
minimum elong	2021 Jun 10 17:30	20°♄32'11	3°05'55	min. Earth dist.	2022 May 22 23:31	0°♄02'29	0.55013 AU
morning rise	2021 Jun 19 20:34	16°♄28'26			2022 May 23 01:15	30°♄	
direct	2021 Jun 22 22:00	16°♄07'37		morning rise	2022 May 30 16:58	26°♄33'34	
morning max el	2021 Jul 04 19:45	21°♄41'58	21°33'03	direct	2022 Jun 03 08:00	26°♄05'14	
	2021 Jul 11 20:35	0°♄			2022 Jun 13 15:27	0°♄	
asc. node	2021 Jul 19 08:43	12°♄26'37		morning max el	2022 Jun 16 14:56	2°♄30'30	23°11'59
morning set	2021 Jul 25 06:34	24°♄11'10			2022 Jul 05 06:25	0°♄	
	2021 Jul 28 01:12	0°♄		asc. node	2022 Jul 06 05:46	1°♄55'18	
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superior conj	2021 Aug 01 14:08	9°♄32'31	1°41'31	superior conj	2022 Jul 16 19:38	24°♄15'19	1°31'19
minimum elong	2021 Aug 01 12:42	9°♄25'06	1°41'27	minimum elong	2022 Jul 16 17:27	24°♄03'38	1°31'06
max. Earth dist.	2021 Aug 05 12:25	17°♄35'59	1.35030 AU	max. Earth dist.	2022 Jul 19 09:49	29°♄45'27	1.33722 AU
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	2021 Aug 11 21:57	0°♄					

	2022 Jul 19 12:35	0°♎		superior conj	2023 Jul 01 05:06	9°♎08'45	1°16'10
evening rise	2022 Jul 24 10:59	10°♎05'50		minimum elong	2023 Jul 01 02:41	8°♎55'37	1°15'49
	2022 Aug 04 06:58	0°♎		max. Earth dist.	2023 Jul 02 15:12	12°♎14'07	1.32815 AU
desc. node	2022 Aug 13 12:33	14°♎25'16		evening rise	2023 Jul 08 09:54	24°♎27'11	
	2022 Aug 26 01:03	0°♎			2023 Jul 11 04:11	0°♎	
evening max el	2022 Aug 27 16:14	1°♎36'58	27°19'12		2023 Jul 28 21:31	0°♎	
retrograde	2022 Sep 10 03:38	8°♎55'27		desc. node	2023 Jul 31 09:34	3°♎26'05	
evening set	2022 Sep 17 05:12	6°♎12'27		evening max el	2023 Aug 10 01:47	14°♎33'55	27°24'01
min. Earth dist.	2022 Sep 20 23:10	2°♎43'48	0.64491 AU	retrograde	2023 Aug 23 19:59	21°♎51'07	
inferior conj	2022 Sep 23 06:50	0°♎14'07	-2°51'42	evening set	2023 Aug 31 00:57	19°♎19'02	
minimum elong	2022 Sep 23 11:20	0°♎01'59	2°50'09	min. Earth dist.	2023 Sep 03 15:12	16°♎20'32	0.62794 AU
	2022 Sep 23 12:04	30°♎		inferior conj	2023 Sep 06 11:09	13°♎36'50	-3°45'45
morning rise	2022 Sep 29 18:29	24°♎47'04		minimum elong	2023 Sep 06 16:30	13°♎23'56	3°44'18
direct	2022 Oct 02 09:07	24°♎11'58		morning rise	2023 Sep 13 09:28	8°♎27'52	
asc. node	2022 Oct 02 05:00	24°♎12'07		direct	2023 Sep 15 20:21	8°♎00'11	
morning max el	2022 Oct 08 21:14	27°♎38'51	17°58'55	asc. node	2023 Sep 19 02:03	8°♎49'34	
	2022 Oct 10 23:51	0°♎		morning max el	2023 Sep 22 13:16	11°♎26'32	17°51'38
morning set	2022 Oct 26 06:47	24°♎03'55			2023 Oct 05 00:09	0°♎	
	2022 Oct 29 19:22	0°♎		morning set	2023 Oct 08 18:08	6°♎37'50	
superior conj	2022 Nov 08 16:43	16°♎15'09	0°05'24	superior conj	2023 Oct 20 05:38	26°♎34'20	0°47'23
minimum elong	2022 Nov 08 17:21	16°♎17'42	0°05'19	minimum elong	2023 Oct 20 09:48	26°♎51'50	0°46'50
behind sun begin	2022 Nov 08 07:29	15°♎37'56			2023 Oct 22 06:49	0°♎	
behind sun end	2022 Nov 09 03:13	16°♎57'24		max. Earth dist.	2023 Oct 27 01:19	7°♎49'05	1.43526 AU
desc. node	2022 Nov 09 11:52	17°♎32'09		desc. node	2023 Oct 27 08:55	8°♎19'43	
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	2022 Nov 17 08:42	0°♎			2023 Nov 10 06:25	0°♎	
evening rise	2022 Nov 24 23:26	11°♎49'11			2023 Dec 01 14:32	0°♎	
	2022 Dec 06 22:08	0°♎		evening max el	2023 Dec 04 14:29	3°♎19'30	21°16'18
greatest brilliancy	2022 Dec 09 06:58	3°♎30'49	-0.6m	retrograde	2023 Dec 13 07:09	8°♎29'20	
evening max el	2022 Dec 21 15:31	19°♎48'37	20°08'21	asc. node	2023 Dec 16 01:19	7°♎47'10	
retrograde	2022 Dec 29 09:32	24°♎21'24		evening set	2023 Dec 17 10:17	6°♎53'32	
asc. node	2022 Dec 29 04:17	24°♎21'08		inferior conj	2023 Dec 22 18:54	0°♎39'18	2°08'48
evening set	2023 Jan 02 02:44	23°♎00'53		minimum elong	2023 Dec 22 16:28	0°♎47'42	2°07'58
inferior conj	2023 Jan 07 12:57	16°♎56'50	2°47'32	min. Earth dist.	2023 Dec 23 02:29	0°♎13'07	0.67618 AU
minimum elong	2023 Jan 07 10:19	17°♎05'40	2°46'49		2023 Dec 23 06:17	30°♎	
min. Earth dist.	2023 Jan 08 08:42	15°♎50'24	0.67044 AU	morning rise	2023 Dec 27 22:28	24°♎26'24	
morning rise	2023 Jan 12 17:43	10°♎43'26		direct	2024 Jan 02 03:08	22°♎10'52	
direct	2023 Jan 18 13:12	8°♎08'08		morning max el	2024 Jan 12 14:38	28°♎25'20	23°30'07
morning max el	2023 Jan 30 05:54	15°♎06'53	24°57'52		2024 Jan 14 02:49	0°♎	
desc. node	2023 Feb 05 11:05	22°♎08'39		desc. node	2024 Jan 23 08:09	11°♎21'53	
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	2023 Mar 02 22:52	0°♎		morning set	2024 Feb 16 19:16	18°♎40'19	
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max. Earth dist.	2023 Mar 11 01:28	14°♎23'26	1.36927 AU		2024 Feb 23 07:29	0°♎	
superior conj	2023 Mar 17 10:45	26°♎34'22	-1°28'07	superior conj	2024 Feb 28 08:43	9°♎14'46	-1°49'37
minimum elong	2023 Mar 17 14:53	26°♎54'40	1°27'32	minimum elong	2024 Feb 28 12:49	9°♎33'56	1°49'16
	2023 Mar 19 04:24	0°♎		evening rise	2024 Mar 08 15:07	27°♎01'34	
evening rise	2023 Mar 25 19:55	13°♎21'00			2024 Mar 10 04:03	0°♎	
asc. node	2023 Mar 27 03:35	15°♎59'08		asc. node	2024 Mar 13 00:39	5°♎25'35	
	2023 Apr 03 16:22	0°♎		evening max el	2024 Mar 24 22:34	23°♎19'22	18°42'06
evening max el	2023 Apr 11 22:10	11°♎03'45	19°29'24	retrograde	2024 Apr 01 22:14	27°♎13'07	
retrograde	2023 Apr 21 08:35	15°♎37'17		evening set	2024 Apr 04 05:02	26°♎55'12	
evening set	2023 Apr 23 09:51	15°♎25'16		inferior conj	2024 Apr 11 23:03	22°♎32'20	2°13'19
inferior conj	2023 May 01 23:28	11°♎19'48	0°42'08	minimum elong	2024 Apr 12 03:01	22°♎24'52	2°12'11
minimum elong	2023 May 02 01:13	11°♎16'58	0°41'30	min. Earth dist.	2024 Apr 15 07:22	20°♎02'52	0.57601 AU
desc. node	2023 May 04 10:16	9°♎45'18		morning rise	2024 Apr 19 21:53	17°♎17'14	
min. Earth dist.	2023 May 04 14:03	9°♎39'21	0.55930 AU	desc. node	2024 Apr 20 07:18	17°♎06'52	
morning rise	2023 May 10 13:48	6°♎38'05		direct	2024 Apr 25 12:54	15°♎58'52	
direct	2023 May 15 03:17	5°♎50'59		morning max el	2024 May 09 21:29	23°♎32'32	26°21'56
morning max el	2023 May 29 05:34	12°♎58'16	24°53'24		2024 May 15 17:05	0°♎	
	2023 Jun 11 10:27	0°♎			2024 Jun 03 07:37	0°♎	
asc. node	2023 Jun 23 02:50	21°♎42'07		morning set	2024 Jun 07 16:34	8°♎55'01	
morning set	2023 Jun 24 05:38	24°♎02'33		asc. node	2024 Jun 08 23:54	11°♎41'18	
	2023 Jun 27 00:24	0°♎		superior conj	2024 Jun 14 16:33	24°♎06'06	0°56'55

minimum elong	2024 Jun 14 14:24	23° Π 54'16	0°56'31	max. Earth dist.	2025 May 29 14:06	7° Π 43'39	1.32181 AU
max. Earth dist.	2024 Jun 15 01:49	24° Π 57'08	1.32306 AU				
	2024 Jun 17 09:07	0° \mathfrak{S}		superior conj	2025 May 30 04:13	9° Π 01'17	0°34'18
evening rise	2024 Jun 21 15:18	9° \mathfrak{S} 06'36		minimum elong	2025 May 30 02:45	8° Π 53'13	0°33'59
	2024 Jul 02 12:50	0° Ω		evening rise	2025 Jun 06 00:47	23° Π 56'04	
desc. node	2024 Jul 17 06:34	21° Ω 32'32			2025 Jun 08 22:58	0° \mathfrak{S}	
evening max el	2024 Jul 22 06:39	26° Ω 52'37	26°56'08		2025 Jun 26 19:09	0° Ω	
	2024 Jul 25 22:42	0° \mathfrak{M}		evening max el	2025 Jul 04 04:39	8° Ω 24'49	25°56'01
retrograde	2024 Aug 05 04:56	4° \mathfrak{M} 06'17		desc. node	2025 Jul 04 03:34	8° Ω 22'16	
evening set	2024 Aug 12 03:57	1° \mathfrak{M} 58'38		retrograde	2025 Jul 18 04:45	15° Ω 34'31	
	2024 Aug 15 00:15	30° \mathfrak{R} Ω		evening set	2025 Jul 24 09:29	14° Ω 02'25	
min. Earth dist.	2024 Aug 15 20:52	29° Ω 18'58	0.60831 AU	min. Earth dist.	2025 Jul 28 17:06	11° Ω 24'58	0.58765 AU
inferior conj	2024 Aug 19 01:58	26° Ω 35'36	-4°30'19	inferior conj	2025 Jul 31 23:41	9° Ω 00'36	-4°56'13
minimum elong	2024 Aug 19 06:43	26° Ω 25'30	4°29'29	minimum elong	2025 Aug 01 01:29	8° Ω 57'17	4°56'07
morning rise	2024 Aug 26 11:16	21° Ω 47'34		morning rise	2025 Aug 08 19:42	4° Ω 35'27	
direct	2024 Aug 28 21:14	21° Ω 24'32		direct	2025 Aug 11 07:30	4° Ω 14'58	
asc. node	2024 Sep 04 23:07	24° Ω 50'34		morning max el	2025 Aug 19 09:48	8° Ω 06'51	18°35'00
morning max el	2024 Sep 05 02:30	24° Ω 58'43	18°03'12	asc. node	2025 Aug 22 20:10	12° Ω 00'09	
	2024 Sep 09 06:50	0° \mathfrak{M}			2025 Sep 02 13:23	0° \mathfrak{M}	
morning set	2024 Sep 20 22:32	20° \mathfrak{M} 00'40		morning set	2025 Sep 04 15:04	3° \mathfrak{M} 59'02	
	2024 Sep 26 08:09	0° \mathfrak{L}					
				superior conj	2025 Sep 13 10:52	20° \mathfrak{M} 54'40	1°36'30
superior conj	2024 Sep 30 21:09	8° \mathfrak{L} 11'29	1°17'52	minimum elong	2025 Sep 13 13:38	21° \mathfrak{M} 07'38	1°36'17
minimum elong	2024 Oct 01 01:29	8° \mathfrak{L} 30'39	1°17'24		2025 Sep 18 10:06	0° \mathfrak{L}	
max. Earth dist.	2024 Oct 08 11:58	21° \mathfrak{L} 18'29	1.41855 AU	max. Earth dist.	2025 Sep 20 17:59	4° \mathfrak{L} 07'00	1.39868 AU
desc. node	2024 Oct 13 05:54	29° \mathfrak{L} 05'45		evening rise	2025 Sep 24 22:09	11° \mathfrak{L} 15'59	
	2024 Oct 13 19:23	0° \mathfrak{M}		desc. node	2025 Sep 30 02:54	19° \mathfrak{L} 47'08	
evening rise	2024 Oct 14 03:56	0° \mathfrak{M} 34'16			2025 Oct 06 16:41	0° \mathfrak{M}	
	2024 Nov 02 19:18	0° \mathfrak{X}			2025 Oct 29 11:02	0° \mathfrak{X}	
evening max el	2024 Nov 16 08:09	16° \mathfrak{X} 51'53	22°33'01	evening max el	2025 Oct 29 22:02	0° \mathfrak{X} 27'42	23°52'58
retrograde	2024 Nov 26 02:42	22° \mathfrak{X} 40'18		retrograde	2025 Nov 09 19:02	6° \mathfrak{X} 51'43	
evening set	2024 Nov 30 17:44	20° \mathfrak{X} 47'51		evening set	2025 Nov 14 23:31	4° \mathfrak{X} 42'07	
asc. node	2024 Dec 01 22:22	19° \mathfrak{X} 41'39		asc. node	2025 Nov 18 19:23	0° \mathfrak{X} 26'19	
inferior conj	2024 Dec 06 02:18	14° \mathfrak{X} 27'02	1°23'20		2025 Nov 19 03:20	30° \mathfrak{R} \mathfrak{M}	
minimum elong	2024 Dec 06 00:30	14° \mathfrak{X} 33'14	1°22'38	inferior conj	2025 Nov 20 09:23	28° \mathfrak{M} 18'28	0°32'31
min. Earth dist.	2024 Dec 05 22:48	14° \mathfrak{X} 39'09	0.67836 AU	minimum elong	2025 Nov 20 08:37	28° \mathfrak{M} 21'05	0°32'11
morning rise	2024 Dec 11 07:08	8° \mathfrak{X} 16'38		min. Earth dist.	2025 Nov 19 19:16	29° \mathfrak{M} 06'25	0.67716 AU
direct	2024 Dec 15 20:56	6° \mathfrak{X} 23'46		morning rise	2025 Nov 25 17:42	22° \mathfrak{M} 12'45	
morning max el	2024 Dec 25 02:30	11° \mathfrak{X} 49'37	22°02'57	direct	2025 Nov 29 17:38	20° \mathfrak{M} 42'25	
	2025 Jan 08 10:30	0° \mathfrak{Z}		morning max el	2025 Dec 07 21:03	25° \mathfrak{M} 24'35	20°43'46
desc. node	2025 Jan 09 05:10	1° \mathfrak{Z} 06'34			2025 Dec 11 22:40	0° \mathfrak{X}	
morning set	2025 Jan 26 23:51	28° \mathfrak{Z} 10'47		desc. node	2025 Dec 27 02:11	21° \mathfrak{X} 14'12	
	2025 Jan 28 02:53	0° \approx			2026 Jan 01 21:11	0° \mathfrak{Z}	
max. Earth dist.	2025 Feb 01 17:53	7° \approx 37'25	1.41171 AU	morning set	2026 Jan 06 03:01	6° \mathfrak{Z} 32'56	
				max. Earth dist.	2026 Jan 14 23:14	20° \mathfrak{Z} 34'44	1.43040 AU
					2026 Jan 20 16:41	0° \approx	
superior conj	2025 Feb 09 12:08	20° \approx 59'36	-2°02'55				
minimum elong	2025 Feb 09 14:14	21° \approx 08'52	2°02'52				
	2025 Feb 14 12:06	0° \mathfrak{H}		superior conj	2026 Jan 21 15:49	1° \approx 36'53	-2°03'13
evening rise	2025 Feb 19 23:04	10° \mathfrak{H} 05'30		minimum elong	2026 Jan 21 13:21	1° \approx 26'30	2°03'09
asc. node	2025 Feb 27 21:41	24° \mathfrak{H} 27'18		evening rise	2026 Feb 02 15:50	22° \approx 24'40	
	2025 Mar 03 09:04	0° \mathfrak{Y}			2026 Feb 06 22:48	0° \mathfrak{H}	
evening max el	2025 Mar 08 06:09	6° \mathfrak{Y} 04'31	18°14'53	asc. node	2026 Feb 14 18:42	12° \mathfrak{H} 56'28	
retrograde	2025 Mar 15 06:46	9° \mathfrak{Y} 35'20		evening max el	2026 Feb 19 17:41	19° \mathfrak{H} 10'15	18°07'22
evening set	2025 Mar 17 19:35	9° \mathfrak{Y} 08'49		retrograde	2026 Feb 26 06:48	22° \mathfrak{H} 33'55	
inferior conj	2025 Mar 24 19:48	4° \mathfrak{Y} 24'56	3°10'39	evening set	2026 Mar 01 00:52	21° \mathfrak{H} 57'28	
minimum elong	2025 Mar 24 23:02	4° \mathfrak{Y} 17'50	3°10'05	inferior conj	2026 Mar 07 11:02	16° \mathfrak{H} 52'43	3°38'09
min. Earth dist.	2025 Mar 28 05:23	1° \mathfrak{Y} 27'42	0.59680 AU	minimum elong	2026 Mar 07 12:20	16° \mathfrak{H} 49'25	3°38'04
	2025 Mar 30 02:18	30° \mathfrak{R} \mathfrak{H}		min. Earth dist.	2026 Mar 10 11:04	13° \mathfrak{H} 52'35	0.61813 AU
morning rise	2025 Apr 01 00:09	28° \mathfrak{H} 44'32		morning rise	2026 Mar 13 22:23	10° \mathfrak{H} 56'13	
direct	2025 Apr 07 11:08	26° \mathfrak{H} 49'35		direct	2026 Mar 20 19:33	8° \mathfrak{H} 29'27	
desc. node	2025 Apr 07 04:20	26° \mathfrak{H} 49'48		desc. node	2026 Mar 25 01:22	9° \mathfrak{H} 19'45	
	2025 Apr 16 06:25	0° \mathfrak{Y}		morning max el	2026 Apr 03 22:34	16° \mathfrak{H} 24'16	27°49'10
morning max el	2025 Apr 21 18:49	4° \mathfrak{Y} 37'19	27°23'25		2026 Apr 15 03:21	0° \mathfrak{Y}	
	2025 May 10 12:15	0° \mathfrak{B}			2026 May 03 02:57	0° \mathfrak{B}	
morning set	2025 May 23 00:51	23° \mathfrak{B} 37'51		morning set	2026 May 07 04:34	8° \mathfrak{B} 04'33	
	2025 May 26 00:59	0° Π		max. Earth dist.	2026 May 13 00:08	20° \mathfrak{B} 20'30	1.32449 AU
asc. node	2025 May 26 20:58	1° Π 47'51		asc. node	2026 May 13 17:59	21° \mathfrak{B} 57'14	

superior conj	2026 May 14 14:25	23°  48'24	0°09'00	max. Earth dist.	2027 Apr 26 03:50	2°  34'08	1.33128 AU
minimum elong	2026 May 14 13:59	23°  46'06	0°08'54				
behind sun begin	2026 May 14 09:43	23°  22'48		superior conj	2027 Apr 28 21:22	8°  21'52	-0°18'12
behind sun end	2026 May 14 18:16	24°  09'25		minimum elong	2027 Apr 28 22:16	8°  26'41	0°18'00
	2026 May 17 10:26	0°  II		asc. node	2027 Apr 30 15:01	12°  05'38	
evening rise	2026 May 21 12:18	8°  II48'22		evening rise	2027 May 06 00:01	23°  37'11	
	2026 Jun 01 11:56	0°  ☿			2027 May 09 01:58	0°  II	
evening max el	2026 Jun 15 20:00	19°  ☿13'42	24°31'01	evening max el	2027 May 28 09:58	29°  II42'52	22°55'08
desc. node	2026 Jun 21 00:36	23°  ☿24'18			2027 May 28 17:07	0°  ☿	
retrograde	2026 Jun 29 17:36	26°  ☿15'26		desc. node	2027 Jun 07 21:37	6°  ☿02'59	
evening set	2026 Jul 04 15:15	25°  ☿21'28		retrograde	2027 Jun 10 18:15	6°  ☿21'40	
min. Earth dist.	2026 Jul 10 06:59	22°  ☿28'21	0.56866 AU	evening set	2027 Jun 14 04:01	5°  ☿56'11	
inferior conj	2026 Jul 13 01:26	20°  ☿42'08	-4°50'17	min. Earth dist.	2027 Jun 21 18:49	2°  ☿33'25	0.55479 AU
minimum elong	2026 Jul 12 22:02	20°  ☿47'36	4°49'59	inferior conj	2027 Jun 23 08:00	1°  ☿39'43	-3°59'19
morning rise	2026 Jul 21 07:32	16°  ☿38'07		minimum elong	2027 Jun 23 00:23	1°  ☿50'44	3°57'34
direct	2026 Jul 23 22:58	16°  ☿19'00			2027 Jun 26 07:19	30°  R  II	
morning max el	2026 Aug 02 08:07	20°  ☿40'55	19°28'05	morning rise	2027 Jul 01 23:11	27°  II47'17	
asc. node	2026 Aug 09 17:12	0°  Ω02'51		direct	2027 Jul 04 19:39	27°  II28'09	
	2026 Aug 09 16:28	0°  Ω			2027 Jul 12 13:48	0°  ☿	
morning set	2026 Aug 19 15:57	18°  Ω21'38		morning max el	2027 Jul 15 19:25	2°  ☿33'40	20°42'06
	2026 Aug 25 11:04	0°  ♊		asc. node	2027 Jul 27 14:15	18°  ☿46'36	
					2027 Aug 02 10:52	0°  Ω	
superior conj	2026 Aug 27 17:04	4°  ♊26'59	1°44'50	morning set	2027 Aug 03 22:26	3°  Ω01'12	
minimum elong	2026 Aug 27 17:56	4°  ♊31'15	1°44'49				
max. Earth dist.	2026 Sep 02 21:53	16°  ♊15'58	1.37818 AU	superior conj	2027 Aug 11 11:02	18°  Ω34'45	1°44'44
evening rise	2026 Sep 06 16:08	23°  ♊03'48		minimum elong	2027 Aug 11 10:18	18°  Ω31'00	1°44'44
	2026 Sep 10 16:21	0°  ♊		max. Earth dist.	2027 Aug 16 05:11	28°  Ω05'42	1.35951 AU
desc. node	2026 Sep 16 23:55	10°  ♊18'59			2027 Aug 17 04:43	0°  ♊	
	2026 Sep 30 11:44	0°  ♊		evening rise	2027 Aug 20 06:37	5°  ♊50'16	
evening max el	2026 Oct 12 10:03	14°  ♊06'17	25°09'39		2027 Sep 03 11:37	0°  ♊	
retrograde	2026 Oct 24 07:13	20°  ♊58'44		desc. node	2027 Sep 03 20:57	0°  ♊35'59	
evening set	2026 Oct 30 01:57	18°  ♊33'11		evening max el	2027 Sep 24 21:59	27°  ♊45'16	26°15'38
min. Earth dist.	2026 Nov 03 13:34	13°  ♊31'58	0.67255 AU		2027 Sep 27 09:10	0°  ♊	
inferior conj	2026 Nov 04 14:24	12°  ♊10'51	-0°22'25	retrograde	2027 Oct 07 14:37	4°  ♊55'40	
minimum elong	2026 Nov 04 14:58	12°  ♊09'00	0°22'10	evening set	2027 Oct 13 23:10	2°  ♊17'52	
asc. node	2026 Nov 05 16:25	10°  ♊46'49			2027 Oct 16 07:36	30°  R  ♊	
morning rise	2026 Nov 10 04:12	6°  ♊12'11		min. Earth dist.	2027 Oct 18 03:22	27°  ♊52'29	0.66452 AU
direct	2026 Nov 13 15:54	5°  ♊02'01		inferior conj	2027 Oct 19 15:31	26°  ♊01'16	-1°20'03
morning max el	2026 Nov 20 23:31	9°  ♊10'32	19°37'18	minimum elong	2027 Oct 19 17:38	25°  ♊54'45	1°19'11
greatest brilliancy	2026 Dec 04 06:21	26°  ♊51'25	-0.7m	asc. node	2027 Oct 23 13:27	21°  ♊40'18	
	2026 Dec 06 08:33	0°  ♊		morning rise	2027 Oct 25 12:34	20°  ♊12'17	
desc. node	2026 Dec 13 23:13	11°  ♊38'07		direct	2027 Oct 28 14:11	19°  ♊18'43	
morning set	2026 Dec 15 24:00	14°  ♊46'25		morning max el	2027 Nov 04 08:55	23°  ♊04'02	18°46'01
	2026 Dec 25 18:22	0°  ♊			2027 Nov 10 00:26	0°  ♊	
max. Earth dist.	2026 Dec 28 11:41	4°  ♊18'00	1.44393 AU	morning set	2027 Nov 25 15:05	23°  ♊59'37	
					2027 Nov 29 10:24	0°  ♊	
superior conj	2027 Jan 01 17:08	11°  ♊02'52	-1°45'49	desc. node	2027 Nov 30 20:14	2°  ♊13'21	
minimum elong	2027 Jan 01 09:27	10°  ♊32'03	1°45'13	max. Earth dist.	2027 Dec 11 04:41	18°  ♊29'17	1.45080 AU
	2027 Jan 13 06:06	0°  ♊					
evening rise	2027 Jan 15 13:05	3°  ♊51'05		superior conj	2027 Dec 11 22:17	19°  ♊38'24	-1°09'48
	2027 Feb 01 01:26	0°  ♊		minimum elong	2027 Dec 11 14:04	19°  ♊06'06	1°08'52
asc. node	2027 Feb 01 15:43	0°  ♊43'17			2027 Dec 18 11:58	0°  ♊	
evening max el	2027 Feb 03 06:15	2°  ♊29'09	18°18'55	evening rise	2027 Dec 27 11:23	14°  ♊19'28	
retrograde	2027 Feb 09 17:36	5°  ♊58'53		greatest brilliancy	2028 Jan 02 14:30	24°  ♊11'26	-0.9m
evening set	2027 Feb 12 16:49	5°  ♊11'37			2028 Jan 06 05:58	0°  ♊	
inferior conj	2027 Feb 18 16:39	29°  ♊47'37	3°42'51	evening max el	2028 Jan 17 17:17	15°  ♊55'01	18°48'37
minimum elong	2027 Feb 18 16:06	29°  ♊49'10	3°42'50	asc. node	2028 Jan 19 12:46	17°  ♊35'02	
	2027 Feb 18 12:16	30°  R  ♊		retrograde	2028 Jan 24 11:02	19°  ♊41'54	
min. Earth dist.	2027 Feb 21 02:15	27°  ♊05'46	0.63747 AU	evening set	2028 Jan 27 16:09	18°  ♊42'47	
morning rise	2027 Feb 24 14:37	23°  ♊41'59		inferior conj	2028 Feb 02 08:47	13°  ♊01'27	3°30'46
direct	2027 Mar 03 12:32	20°  ♊55'23		minimum elong	2028 Feb 02 06:57	13°  ♊07'08	3°30'30
desc. node	2027 Mar 11 22:25	24°  ♊12'14		min. Earth dist.	2028 Feb 04 02:55	10°  ♊51'59	0.65346 AU
morning max el	2027 Mar 17 06:50	28°  ♊50'18	27°37'48	morning rise	2028 Feb 07 21:21	6°  ♊51'02	
	2027 Mar 18 10:02	0°  ♊		direct	2028 Feb 14 12:38	3°  ♊59'07	
	2027 Apr 08 23:20	0°  ♊		desc. node	2028 Feb 26 19:28	10°  ♊50'52	
morning set	2027 Apr 21 01:18	22°  ♊07'29		morning max el	2028 Feb 27 16:36	11°  ♊42'59	26°53'38
	2027 Apr 24 22:18	0°  ♊			2028 Mar 13 07:07	0°  ♊	

	2028 Mar 31 12:28	0°♿			2029 Mar 06 18:15	0°♿	
morning set	2028 Apr 03 11:48	5°♿35'33		morning set	2029 Mar 17 07:48	18°♿16'21	
max. Earth dist.	2028 Apr 07 21:19	14°♿13'47	1.34255 AU	max. Earth dist.	2029 Mar 21 03:06	25°♿23'30	1.35845 AU
					2029 Mar 23 12:19	0°♿	
superior conj	2028 Apr 11 22:56	22°♿34'10	-0°46'12	superior conj	2029 Mar 26 16:34	6°♿18'13	-1°13'30
minimum elong	2028 Apr 12 01:16	22°♿46'21	0°45'43	minimum elong	2029 Mar 26 20:12	6°♿36'29	1°12'54
	2028 Apr 15 11:48	0°♿			2029 Apr 03 09:07	22°♿00'33	
asc. node	2028 Apr 16 12:04	2°♿08'06		asc. node	2029 Apr 03 16:13	22°♿36'47	
evening rise	2028 Apr 19 10:00	8°♿15'20		evening rise	2029 Apr 07 08:52	0°♿	
	2028 May 01 01:42	0°♿			2029 Apr 21 13:35	21°♿38'41	20°05'31
evening max el	2028 May 09 06:13	10°♿23'49	21°23'15	evening max el	2029 May 01 23:05	26°♿40'20	
retrograde	2028 May 21 08:43	16°♿18'53		retrograde	2029 May 03 23:42	26°♿29'44	
evening set	2028 May 23 17:09	16°♿06'14		evening set	2029 May 11 15:43	23°♿17'36	
desc. node	2028 May 24 18:40	15°♿52'36		desc. node	2029 May 12 23:27	22°♿30'34	-0°23'09
inferior conj	2028 Jun 02 02:46	12°♿06'29	-2°22'33	inferior conj	2029 May 12 22:23	22°♿32'10	0°22'45
minimum elong	2028 Jun 01 20:19	12°♿15'32	2°20'22	minimum elong	2029 May 14 20:10	21°♿23'49	0.55305 AU
min. Earth dist.	2028 Jun 02 06:58	12°♿00'35	0.54910 AU	min. Earth dist.	2029 May 21 19:16	18°♿08'38	
morning rise	2028 Jun 10 24:00	8°♿08'27		morning rise	2029 May 25 19:21	17°♿33'39	
direct	2028 Jun 14 06:06	7°♿45'25		direct	2029 Jun 08 11:50	24°♿18'15	23°55'38
morning max el	2028 Jun 26 19:34	13°♿42'38	22°13'58	morning max el	2029 Jun 13 16:46	0°♿	
	2028 Jul 09 01:38	0°♿			2029 Jun 30 08:22	27°♿38'00	
asc. node	2028 Jul 13 11:19	8°♿01'01		asc. node	2029 Jul 01 12:01	0°♿	
morning set	2028 Jul 18 08:24	17°♿51'35		morning set	2029 Jul 02 20:03	2°♿47'21	
	2028 Jul 24 01:51	0°♿					
superior conj	2028 Jul 25 13:08	3°♿06'50	1°37'51	superior conj	2029 Jul 09 20:32	17°♿54'26	1°25'26
minimum elong	2028 Jul 25 11:19	2°♿57'16	1°37'43	minimum elong	2029 Jul 09 18:11	17°♿41'47	1°25'08
max. Earth dist.	2028 Jul 28 20:58	10°♿02'55	1.34422 AU	max. Earth dist.	2029 Jul 11 22:10	22°♿21'05	1.33290 AU
evening rise	2028 Aug 02 12:55	19°♿22'58		evening rise	2029 Jul 15 13:37	0°♿	
	2028 Aug 08 05:10	0°♿			2029 Jul 17 06:47	3°♿29'40	
desc. node	2028 Aug 20 17:59	20°♿31'24		desc. node	2029 Jul 31 23:35	0°♿	
	2028 Aug 27 13:08	0°♿			2029 Aug 07 15:01	9°♿55'38	
evening max el	2028 Sep 06 10:20	11°♿18'04	27°03'14	evening max el	2029 Aug 19 21:42	24°♿32'16	27°25'15
retrograde	2028 Sep 19 16:34	18°♿35'39		retrograde	2029 Aug 27 02:21	0°♿	
evening set	2028 Sep 26 12:54	15°♿52'11			2029 Sep 02 12:18	1°♿49'51	
min. Earth dist.	2028 Sep 30 10:22	12°♿03'07	0.65300 AU		2029 Sep 08 10:59	30°♿	
inferior conj	2028 Oct 02 10:38	9°♿45'55	-2°18'37	inferior conj	2029 Sep 09 16:13	29°♿10'16	
minimum elong	2028 Oct 02 14:20	9°♿35'23	2°17'12	minimum elong	2029 Sep 13 08:17	25°♿55'13	0.63803 AU
morning rise	2028 Oct 08 16:32	4°♿09'41		morning rise	2029 Sep 15 21:11	23°♿18'33	-3°15'27
asc. node	2028 Oct 09 10:31	3°♿50'32		asc. node	2029 Sep 16 02:10	23°♿05'44	3°13'51
direct	2028 Oct 11 10:28	3°♿28'50		direct	2029 Sep 22 13:14	17°♿58'31	
morning max el	2028 Oct 17 23:04	7°♿00'12	18°11'11	morning max el	2029 Sep 25 02:02	17°♿26'50	
	2028 Nov 02 15:04	0°♿			2029 Sep 26 07:35	17°♿34'27	
morning set	2028 Nov 05 11:14	4°♿40'27		morning set	2029 Oct 01 15:12	20°♿52'28	17°53'37
desc. node	2028 Nov 16 17:17	22°♿56'10		desc. node	2029 Oct 08 12:41	0°♿	
					2029 Oct 18 10:02	16°♿38'25	
superior conj	2028 Nov 20 01:40	28°♿15'52	-0°22'22	superior conj	2029 Oct 26 06:04	0°♿	
minimum elong	2028 Nov 19 22:48	28°♿04'31	0°21'58	minimum elong	2029 Oct 30 23:14	7°♿49'03	0°24'27
	2028 Nov 21 04:00	0°♿			2029 Oct 31 01:50	7°♿59'43	0°24'05
max. Earth dist.	2028 Nov 22 23:48	2°♿52'40	1.45032 AU	max. Earth dist.	2029 Nov 03 14:18	13°♿42'37	
evening rise	2028 Dec 06 11:17	23°♿55'24		evening rise	2029 Nov 05 17:52	17°♿09'14	1.44262 AU
	2028 Dec 10 09:12	0°♿			2029 Nov 13 22:09	0°♿	
greatest brilliancy	2028 Dec 18 21:05	13°♿03'15	-0.7m	greatest brilliancy	2029 Nov 15 20:58	3°♿00'42	
evening max el	2028 Dec 31 00:43	29°♿24'41	19°34'59	evening max el	2029 Dec 03 22:47	0°♿	
	2028 Dec 31 14:49	0°♿			2029 Dec 14 02:58	12°♿54'55	20°35'54
asc. node	2029 Jan 05 09:49	3°♿17'45		asc. node	2029 Dec 22 05:51	17°♿42'28	
retrograde	2029 Jan 07 07:57	3°♿38'02		retrograde	2029 Dec 23 06:51	17°♿36'24	
evening set	2029 Jan 10 20:18	2°♿25'43		evening set	2029 Dec 26 03:09	16°♿15'27	
	2029 Jan 13 12:14	30°♿			2029 Dec 31 12:28	10°♿06'45	2°32'00
inferior conj	2029 Jan 16 08:17	26°♿29'20	3°06'10	inferior conj	2029 Dec 31 09:52	10°♿15'37	2°31'13
minimum elong	2029 Jan 16 05:46	26°♿37'34	3°05'36	minimum elong	2030 Jan 01 02:50	9°♿17'48	0.67339 AU
min. Earth dist.	2029 Jan 17 11:46	24°♿59'17	0.66546 AU	min. Earth dist.	2030 Jan 05 16:25	3°♿53'37	
morning rise	2029 Jan 21 15:00	20°♿16'40		morning rise	2030 Jan 11 05:45	1°♿26'14	
direct	2029 Jan 27 18:40	17°♿32'29		direct	2030 Jan 22 10:11	8°♿06'24	24°21'05
morning max el	2029 Feb 09 01:47	24°♿51'07	25°44'46	morning max el	2030 Jan 30 13:32	17°♿34'53	
desc. node	2029 Feb 12 16:30	28°♿45'57		desc. node	2030 Feb 08 14:03	0°♿	
	2029 Feb 13 17:52	0°♿					

morning set	2030 Feb 27 07:43	29°  54'25		desc. node	2031 Jan 17 10:33	7°  02'16	
	2030 Feb 27 09:00	0° 			2031 Feb 01 21:15	0° 	
max. Earth dist.	2030 Mar 03 00:16	6°  27'20	1.37809 AU	morning set	2031 Feb 08 05:19	10°  13'56	
				max. Earth dist.	2031 Feb 12 19:46	17°  59'17	1.39954 AU
superior conj	2030 Mar 09 22:54	19°  24'52	-1°37'58		2031 Feb 19 15:02	0° 	
minimum elong	2030 Mar 10 03:12	19°  45'33	1°37'28				
	2030 Mar 15 08:42	0° 		superior conj	2031 Feb 20 13:36	1°  42'47	-1°56'31
evening rise	2030 Mar 18 16:17	6°  34'43		minimum elong	2031 Feb 20 17:09	1°  59'01	1°56'18
asc. node	2030 Mar 21 06:10	11°  38'14		evening rise	2031 Mar 02 07:10	20°  00'55	
	2030 Apr 01 04:47	0° 			2031 Mar 07 15:01	0° 	
evening max el	2030 Apr 04 08:20	3°  33'11	19°06'42	asc. node	2031 Mar 08 03:13	0°  55'03	
retrograde	2030 Apr 13 02:33	7°  47'57		evening max el	2031 Mar 18 12:07	16°  02'08	18°28'01
evening set	2030 Apr 15 05:59	7°  33'47		retrograde	2031 Mar 26 00:44	19°  44'33	
inferior conj	2030 Apr 23 11:14	3°  21'15	1°24'50	evening set	2031 Mar 28 09:59	19°  23'20	
minimum elong	2030 Apr 23 14:23	3°  15'50	1°23'48	inferior conj	2031 Apr 04 20:02	14°  51'31	2°41'41
min. Earth dist.	2030 Apr 26 11:24	1°  18'17	0.56573 AU	minimum elong	2031 Apr 04 23:57	14°  43'38	2°40'44
desc. node	2030 Apr 28 12:44	0°  01'28		min. Earth dist.	2031 Apr 08 06:30	12°  07'13	0.58451 AU
	2030 Apr 28 13:44	30°  08'00		morning rise	2031 Apr 12 11:01	9°  24'06	
morning rise	2030 May 01 19:47	28°  25'03		desc. node	2031 Apr 15 09:46	8°  14'56	
direct	2030 May 06 20:15	27°  06'11		direct	2031 Apr 18 11:16	7°  50'29	
	2030 May 15 01:30	0° 		morning max el	2031 May 02 20:32	15°  31'40	26°52'08
morning max el	2030 May 21 02:20	4°  45'35	25°33'37		2031 May 14 14:00	0° 	
	2030 Jun 08 06:31	0° 			2031 May 31 12:23	0° 	
morning set	2030 Jun 17 07:45	17°  43'27		morning set	2031 Jun 01 17:48	2°  32'56	
asc. node	2030 Jun 17 05:25	17°  31'08		asc. node	2031 Jun 04 02:28	7°  34'06	
	2030 Jun 22 23:56	0° 					
superior conj	2030 Jun 24 07:05	2°  50'41	1°08'28	superior conj	2031 Jun 08 18:50	17°  47'59	0°47'43
minimum elong	2030 Jun 24 04:43	2°  37'47	1°08'04	minimum elong	2031 Jun 08 16:55	17°  37'28	0°47'19
max. Earth dist.	2030 Jun 25 06:28	4°  58'40	1.32554 AU	max. Earth dist.	2031 Jun 08 18:17	17°  45'00	1.32205 AU
evening rise	2030 Jul 01 08:49	18°  00'13		evening rise	2031 Jun 14 09:09	0° 	
	2030 Jul 07 10:23	0° 			2031 Jun 15 16:13	2°  44'43	
desc. node	2030 Jul 25 12:02	28°  03'54		desc. node	2031 Jun 30 08:25	0° 	
	2030 Jul 26 14:54	0° 		evening max el	2031 Jul 12 09:03	16°  02'53	
evening max el	2030 Aug 02 05:35	7°  14'31	27°16'13	retrograde	2031 Jul 15 07:25	19°  02'51	26°34'04
retrograde	2030 Aug 16 01:20	14°  29'44		evening set	2031 Jul 29 06:48	26°  02'53	
evening set	2030 Aug 23 05:23	12°  06'17		min. Earth dist.	2031 Aug 04 23:46	24°  03'13	
min. Earth dist.	2030 Aug 26 19:40	9°  17'49	0.61989 AU	inferior conj	2031 Aug 08 20:51	21°  05'24	0.59954 AU
inferior conj	2030 Aug 29 20:11	6°  32'16	-4°06'17	minimum elong	2031 Aug 12 04:05	19°  01'20	-4°44'16
minimum elong	2030 Aug 30 01:30	6°  20'05	4°05'02	morning rise	2031 Aug 12 07:54	19°  09'40	4°43'47
morning rise	2030 Sep 05 23:10	1°  31'59		direct	2031 Aug 19 18:05	14°  03'20	
direct	2030 Sep 08 09:28	1°  06'28		morning max el	2031 Aug 22 04:28	14°  01'39	
asc. node	2030 Sep 13 04:37	2°  49'16		asc. node	2031 Aug 29 17:35	17°  05'51	18°14'14
morning max el	2030 Sep 15 06:26	4°  34'38	17°54'14		2031 Aug 31 01:39	19°  02'10	
morning set	2030 Oct 01 05:19	29°  35'01		morning set	2031 Sep 07 09:56	0° 	
	2030 Oct 01 10:50	0° 			2031 Sep 14 15:21	13°  13'46	
					2031 Sep 23 14:35	0° 	
superior conj	2030 Oct 11 23:48	18°  42'18	1°01'50	superior conj	2031 Sep 24 01:27	0°  49'25	1°27'09
minimum elong	2030 Oct 12 04:21	19°  01'53	1°01'15	minimum elong	2031 Sep 24 05:14	1°  06'33	1°26'47
	2030 Oct 18 17:03	0° 		max. Earth dist.	2031 Oct 01 15:54	14°  11'02	1.41029 AU
max. Earth dist.	2030 Oct 19 07:47	1°  00'22	1.42869 AU	evening rise	2031 Oct 06 13:02	22°  18'43	
desc. node	2030 Oct 21 11:19	4°  29'45		desc. node	2031 Oct 08 08:20	25°  14'03	
evening rise	2030 Oct 26 08:27	12°  15'27			2031 Oct 11 08:19	0° 	
	2030 Nov 07 00:31	0° 			2031 Nov 01 02:35	0° 	
evening max el	2030 Nov 26 23:29	26°  25'30	21°48'06	evening max el	2031 Nov 09 15:07	9°  58'13	23°07'02
	2030 Dec 01 02:27	0° 		retrograde	2031 Nov 19 21:16	16°  20'12	
retrograde	2030 Dec 06 02:47	1°  35'15		evening set	2031 Nov 24 17:47	14°  20'12	
evening set	2030 Dec 10 10:51	0° 		asc. node	2031 Nov 27 00:54	11°  20'12	
asc. node	2030 Dec 10 03:53	0° 		inferior conj	2031 Nov 30 02:43	7°  20'12	1°02'22
	2030 Dec 10 15:11	30°  08'51		minimum elong	2031 Nov 30 01:19	7°  20'12	1°01'48
inferior conj	2030 Dec 15 19:14	23°  51'10	1°50'14	min. Earth dist.	2031 Nov 30 01:19	7°  20'12	1°01'48
minimum elong	2030 Dec 15 17:02	23°  58'50	1°49'26	morning rise	2031 Dec 05 08:45	1°  20'12	
min. Earth dist.	2030 Dec 15 21:55	23°  41'54	0.67752 AU		2031 Dec 08 05:36	30°  08'24	
morning rise	2030 Dec 20 23:04	17°  39'11		direct	2031 Dec 09 16:23	29°  08'24	0.67816 AU
direct	2030 Dec 25 21:14	15°  33'26			2031 Dec 11 04:22	0° 	
morning max el	2031 Jan 04 19:56	21°  27'06	22°52'33	morning max el	2031 Dec 18 10:25	4°  55'44	21°27'59
	2031 Jan 12 04:19	0° 		desc. node	2032 Jan 04 07:35	26°  57'25	

	2032 Jan 06 09:14	0°		transit begin	2032 Nov 13 06:41	21°40'45	
morning set	2032 Jan 18 21:53	19°11'20		transit end	2032 Nov 13 11:07	21°25'52	
	2032 Jan 25 14:41	0°		morning rise	2032 Nov 18 19:31	15°29'12	
max. Earth dist.	2032 Jan 25 20:04	0°22'09	1.42003 AU	direct	2032 Nov 22 14:01	14°07'43	
				morning max el	2032 Nov 30 08:11	18°34'34	20°13'42
superior conj	2032 Feb 02 07:32	13°00'03	-2°04'58		2032 Dec 09 12:05	0°	
minimum elong	2032 Feb 02 07:59	13°02'00	2°04'57	desc. node	2032 Dec 21 04:35	17°12'13	
	2032 Feb 11 20:34	0°		morning set	2032 Dec 27 19:05	27°19'10	
evening rise	2032 Feb 13 09:14	2°47'00			2032 Dec 29 12:34	0°	
asc. node	2032 Feb 23 00:15	19°44'15		max. Earth dist.	2033 Jan 07 04:07	13°38'33	1.43684 AU
evening max el	2032 Feb 29 21:48	28°57'27	18°09'22				
	2032 Mar 02 01:19	0°		superior conj	2033 Jan 12 23:57	23°06'08	-1°58'13
retrograde	2032 Mar 07 16:22	2°23'32		minimum elong	2033 Jan 12 19:05	22°46'07	1°57'58
evening set	2032 Mar 10 07:23	1°53'03			2033 Jan 17 03:32	0°	
	2032 Mar 13 13:47	30°		evening rise	2033 Jan 25 18:07	14°43'34	
inferior conj	2032 Mar 17 01:11	27°00'31	3°25'31		2033 Feb 03 16:04	0°	
minimum elong	2032 Mar 17 03:39	26°54'45	3°25'11	asc. node	2033 Feb 08 21:17	7°56'29	
min. Earth dist.	2032 Mar 20 07:47	23°58'45	0.60591 AU	evening max el	2033 Feb 12 10:10	12°09'30	18°10'07
morning rise	2032 Mar 23 21:55	21°12'02		retrograde	2033 Feb 18 21:20	15°33'55	
direct	2032 Mar 30 14:29	19°02'06		evening set	2033 Feb 21 17:38	14°52'54	
desc. node	2032 Apr 01 06:47	19°09'56		inferior conj	2033 Feb 27 23:00	9°40'00	3°42'31
morning max el	2032 Apr 13 20:46	26°54'34	27°38'53	minimum elong	2033 Feb 27 23:28	9°38'46	3°42'30
	2032 Apr 16 19:08	0°		min. Earth dist.	2033 Mar 02 17:19	6°45'23	0.62672 AU
	2032 May 07 03:36	0°		morning rise	2033 Mar 06 04:12	3°39'13	
morning set	2032 May 16 00:25	17°09'57		direct	2033 Mar 13 02:57	1°02'02	
asc. node	2032 May 20 23:30	27°42'29		desc. node	2033 Mar 19 03:48	2°44'02	
max. Earth dist.	2032 May 22 05:55	0°28'13	1.32246 AU	morning max el	2033 Mar 27 02:28	8°57'40	27°48'39
	2032 May 22 00:45	0°			2033 Apr 12 09:18	0°	
					2033 Apr 29 08:09	0°	
superior conj	2032 May 23 06:07	2°40'43	0°23'51	morning set	2033 Apr 30 01:29	1°27'09	
minimum elong	2032 May 23 05:03	2°34'54	0°23'37	max. Earth dist.	2033 May 05 13:36	12°55'42	1.32685 AU
evening rise	2032 May 30 02:49	17°36'09					
	2032 Jun 05 05:43	0°		superior conj	2033 May 07 15:12	17°22'45	-0°02'23
	2032 Jun 25 15:57	0°		minimum elong	2033 May 07 15:18	17°23'21	0°02'21
evening max el	2032 Jun 26 02:14	0°24'53	25°22'06	behind sun begin	2033 May 07 10:09	16°55'26	
desc. node	2032 Jun 28 06:04	2°20'55		behind sun end	2033 May 07 20:28	17°51'17	
retrograde	2032 Jul 10 02:34	7°32'42		asc. node	2033 May 07 20:34	17°51'53	
evening set	2032 Jul 15 19:07	6°17'22			2033 May 13 10:57	0°	
min. Earth dist.	2032 Jul 20 14:14	3°34'54	0.57919 AU	evening rise	2033 May 14 14:40	2°27'38	
inferior conj	2032 Jul 23 17:31	1°24'33	-4°58'27		2033 May 29 15:50	0°	
minimum elong	2032 Jul 23 17:17	1°24'58	4°58'28	evening max el	2033 Jun 07 16:25	11°02'43	23°50'42
	2032 Jul 25 19:20	30°		desc. node	2033 Jun 15 03:05	16°26'37	
morning rise	2032 Jul 31 17:56	27°08'51		retrograde	2033 Jun 21 10:05	17°56'22	
direct	2032 Aug 03 06:52	26°49'14		evening set	2033 Jun 25 16:08	17°16'34	
	2032 Aug 10 21:47	0°		min. Earth dist.	2033 Jul 02 03:01	14°12'17	0.56198 AU
morning max el	2032 Aug 11 21:26	0°52'39	18°54'53	inferior conj	2033 Jul 04 10:48	12°47'26	-4°34'43
asc. node	2032 Aug 16 22:42	6°54'44		minimum elong	2033 Jul 04 05:11	12°56'01	4°33'53
morning set	2032 Aug 28 11:47	27°23'00		morning rise	2033 Jul 12 20:52	8°49'35	
	2032 Aug 29 19:41	0°		direct	2033 Jul 15 14:20	8°30'35	
				morning max el	2033 Jul 25 15:12	13°09'51	19°56'59
superior conj	2032 Sep 05 22:48	13°54'53	1°41'10	asc. node	2033 Aug 03 19:46	25°16'32	
minimum elong	2032 Sep 06 00:45	14°04'14	1°41'04		2033 Aug 06 12:31	0°	
max. Earth dist.	2032 Sep 12 19:57	26°38'53	1.38988 AU	morning set	2033 Aug 12 15:25	11°54'10	
	2032 Sep 14 17:24	0°					
evening rise	2032 Sep 16 17:34	3°28'55		superior conj	2033 Aug 20 10:33	27°43'59	1°45'43
desc. node	2032 Sep 24 05:21	15°51'43		minimum elong	2033 Aug 20 10:42	27°44'40	1°45'43
	2032 Oct 03 12:29	0°			2033 Aug 21 13:55	0°	
evening max el	2032 Oct 22 03:56	23°34'59	24°26'34	max. Earth dist.	2033 Aug 26 00:56	8°38'10	1.36997 AU
	2032 Oct 31 17:33	0°		evening rise	2033 Aug 29 20:57	15°43'49	
retrograde	2032 Nov 02 11:57	0°12'35			2033 Sep 07 03:49	0°	
	2032 Nov 04 04:38	30°		desc. node	2033 Sep 11 02:24	6°18'20	
evening set	2032 Nov 07 22:19	27°56'12			2033 Sep 28 01:44	0°	
min. Earth dist.	2032 Nov 12 14:35	22°34'42	0.67553 AU	evening max el	2033 Oct 04 16:04	7°15'30	25°39'31
asc. node	2032 Nov 12 21:56	22°10'05		retrograde	2033 Oct 16 22:03	14°16'09	
inferior conj	2032 Nov 13 09:08	21°32'31	0°09'38	evening set	2033 Oct 22 22:47	11°45'03	
minimum elong	2032 Nov 13 08:54	21°33'18	0°09'32	min. Earth dist.	2033 Oct 27 07:17	6°58'51	0.66960 AU
transit middle	2032 Nov 13 08:54	21°33'18	0°09'32	inferior conj	2033 Oct 28 12:46	5°24'49	-0°46'36

minimum elong	2023 Oct 28 13:58	5° \mathbb{M} 20'58	0°46'05	asc. node	2034 Oct 17 16:00	14° \mathbb{Q} 00'30	
asc. node	2023 Oct 30 18:57	2° \mathbb{M} 38'18		morning rise	2034 Oct 18 12:16	13° \mathbb{Q} 29'26	
	2023 Nov 02 12:07	30° \mathbb{R} \mathbb{Q}		direct	2034 Oct 21 10:22	12° \mathbb{Q} 41'40	
morning rise	2023 Nov 03 05:25	29° \mathbb{Q} 29'47		morning max el	2034 Oct 28 01:32	16° \mathbb{Q} 19'32	18°29'08
direct	2023 Nov 06 12:40	28° \mathbb{Q} 26'56			2034 Nov 07 04:05	0° \mathbb{M}	
	2023 Nov 10 18:34	0° \mathbb{M}		morning set	2034 Nov 17 00:30	15° \mathbb{M} 41'37	
morning max el	2023 Nov 13 13:45	2° \mathbb{M} 24'03	19°13'29	desc. node	2034 Nov 24 22:43	28° \mathbb{M} 20'30	
	2023 Dec 03 02:51	0° \mathbb{X}			2034 Nov 25 23:51	0° \mathbb{X}	
morning set	2023 Dec 06 21:21	5° \mathbb{X} 51'24					
desc. node	2023 Dec 08 01:39	7° \mathbb{X} 41'32		superior conj	2034 Dec 02 16:45	10° \mathbb{X} 34'01	-0°50'21
max. Earth dist.	2023 Dec 20 19:16	27° \mathbb{X} 37'16	1.44780 AU	minimum elong	2034 Dec 02 10:21	10° \mathbb{X} 08'53	0°49'33
	2023 Dec 22 07:24	0° \mathbb{Z}		max. Earth dist.	2034 Dec 03 14:01	11° \mathbb{X} 57'31	1.45155 AU
					2034 Dec 15 01:35	0° \mathbb{Z}	
superior conj	2023 Dec 23 15:09	2° \mathbb{Z} 05'46	-1°32'35	evening rise	2034 Dec 18 18:14	5° \mathbb{Z} 49'54	
minimum elong	2023 Dec 23 06:23	1° \mathbb{Z} 31'00	1°31'45	greatest brilliancy	2034 Dec 28 08:02	20° \mathbb{Z} 56'10	-0.8m
evening rise	2034 Jan 07 05:51	25° \mathbb{Z} 44'59			2035 Jan 03 07:28	0° \mathbb{A}	
	2034 Jan 09 19:35	0° \mathbb{A}		evening max el	2035 Jan 10 08:04	8° \mathbb{A} 58'56	19°06'22
asc. node	2034 Jan 26 18:18	25° \mathbb{A} 21'03		asc. node	2035 Jan 13 15:19	11° \mathbb{A} 45'07	
evening max el	2034 Jan 26 22:24	25° \mathbb{A} 31'33	18°29'26	retrograde	2035 Jan 17 06:44	12° \mathbb{A} 56'13	
retrograde	2034 Feb 02 11:22	29° \mathbb{A} 07'00		evening set	2035 Jan 20 14:45	11° \mathbb{A} 51'34	
evening set	2034 Feb 05 13:05	28° \mathbb{A} 14'38		inferior conj	2035 Jan 26 05:06	6° \mathbb{A} 03'12	3°21'39
inferior conj	2034 Feb 11 09:29	22° \mathbb{A} 42'51	3°39'27	minimum elong	2035 Jan 26 02:54	6° \mathbb{A} 10'12	3°21'16
minimum elong	2034 Feb 11 08:18	22° \mathbb{A} 46'18	3°39'21	min. Earth dist.	2035 Jan 27 16:43	4° \mathbb{A} 10'16	0.65902 AU
min. Earth dist.	2034 Feb 13 12:24	20° \mathbb{A} 13'50	0.64477 AU		2035 Jan 31 10:58	30° \mathbb{R} \mathbb{Z}	
morning rise	2034 Feb 17 03:00	16° \mathbb{A} 35'01		morning rise	2035 Jan 31 14:45	29° \mathbb{Z} 51'30	
direct	2034 Feb 23 22:54	13° \mathbb{A} 44'39		direct	2035 Feb 07 01:25	27° \mathbb{Z} 01'49	
desc. node	2034 Mar 06 00:51	18° \mathbb{A} 25'09			2035 Feb 14 14:32	0° \mathbb{A}	
morning max el	2034 Mar 09 11:36	21° \mathbb{A} 35'28	27°22'40	morning max el	2035 Feb 19 21:32	4° \mathbb{A} 36'45	26°26'57
	2034 Mar 16 19:53	0° \mathbb{H}		desc. node	2035 Feb 20 21:55	5° \mathbb{A} 39'30	
	2034 Apr 05 13:01	0° \mathbb{Y}			2035 Mar 11 07:16	0° \mathbb{H}	
morning set	2034 Apr 13 18:18	15° \mathbb{Y} 15'54		morning set	2035 Mar 27 23:17	28° \mathbb{H} 25'44	
max. Earth dist.	2034 Apr 18 13:28	24° \mathbb{Y} 55'41	1.33552 AU		2035 Mar 28 19:13	0° \mathbb{Y}	
	2034 Apr 20 23:46	0° \mathbb{B}		max. Earth dist.	2035 Apr 01 02:19	6° \mathbb{Y} 22'41	1.34873 AU
superior conj	2034 Apr 21 20:08	1° \mathbb{B} 47'37	-0°30'03	superior conj	2035 Apr 05 18:42	15° \mathbb{Y} 48'46	-0°57'57
minimum elong	2034 Apr 21 21:39	1° \mathbb{B} 55'36	0°29'43	minimum elong	2035 Apr 05 21:37	16° \mathbb{Y} 03'49	0°57'25
asc. node	2034 Apr 24 17:37	7° \mathbb{B} 57'57		asc. node	2035 Apr 11 14:41	27° \mathbb{Y} 56'44	
evening rise	2034 Apr 29 01:53	17° \mathbb{B} 12'33			2035 Apr 12 14:22	0° \mathbb{B}	
	2034 May 05 11:03	0° \mathbb{I}		evening rise	2035 Apr 13 10:34	1° \mathbb{B} 44'39	
evening max el	2034 May 20 08:13	21° \mathbb{I} 33'00	22°14'50		2035 Apr 30 01:45	0° \mathbb{I}	
retrograde	2034 Jun 02 05:24	27° \mathbb{I} 55'09		evening max el	2035 May 02 08:44	2° \mathbb{I} 26'10	20°48'05
desc. node	2034 Jun 02 00:06	27° \mathbb{I} 55'02		retrograde	2035 May 13 18:40	7° \mathbb{I} 59'29	
evening set	2034 Jun 05 02:38	27° \mathbb{I} 36'44		evening set	2035 May 15 21:46	7° \mathbb{I} 48'38	
min. Earth dist.	2034 Jun 13 14:24	23° \mathbb{I} 57'55	0.55125 AU	desc. node	2035 May 19 21:07	6° \mathbb{I} 36'22	
inferior conj	2034 Jun 14 10:59	23° \mathbb{I} 28'57	-3°23'04	inferior conj	2035 May 25 04:45	3° \mathbb{I} 50'47	-1°32'39
minimum elong	2034 Jun 14 03:05	23° \mathbb{I} 40'05	3°20'51	minimum elong	2035 May 25 00:23	3° \mathbb{I} 57'01	1°31'04
morning rise	2034 Jun 23 05:23	19° \mathbb{I} 36'56		min. Earth dist.	2035 May 26 02:53	3° \mathbb{I} 19'13	0.54952 AU
direct	2034 Jun 26 05:24	19° \mathbb{I} 16'41			2035 Jun 02 04:33	30° \mathbb{R} \mathbb{B}	
morning max el	2034 Jul 07 21:30	24° \mathbb{I} 43'10	21°19'21	morning rise	2035 Jun 03 02:34	29° \mathbb{B} 44'46	
	2034 Jul 12 16:13	0° \mathbb{G}		direct	2035 Jun 06 14:53	29° \mathbb{B} 18'11	
asc. node	2034 Jul 21 16:50	14° \mathbb{G} 14'30			2035 Jun 10 22:32	0° \mathbb{I}	
morning set	2034 Jul 27 23:41	26° \mathbb{G} 39'27		morning max el	2035 Jun 19 17:52	5° \mathbb{I} 36'30	22°56'45
	2034 Jul 29 14:13	0° \mathbb{Q}			2035 Jul 06 16:37	0° \mathbb{G}	
				asc. node	2035 Jul 08 13:55	3° \mathbb{G} 39'36	
superior conj	2034 Aug 04 08:24	12° \mathbb{Q} 03'26	1°42'35	morning set	2035 Jul 12 10:36	11° \mathbb{G} 33'06	
minimum elong	2034 Aug 04 07:08	11° \mathbb{Q} 56'55	1°42'31				
max. Earth dist.	2034 Aug 08 11:54	20° \mathbb{Q} 30'26	1.35258 AU	superior conj	2035 Jul 19 13:05	26° \mathbb{G} 43'28	1°33'13
evening rise	2034 Aug 12 18:44	28° \mathbb{Q} 51'28		minimum elong	2035 Jul 19 10:59	26° \mathbb{G} 32'16	1°33'00
	2034 Aug 13 09:14	0° \mathbb{P}			2035 Jul 21 02:06	0° \mathbb{Q}	
desc. node	2034 Aug 28 23:27	26° \mathbb{P} 27'18		max. Earth dist.	2035 Jul 22 07:43	2° \mathbb{Q} 35'36	1.33889 AU
	2034 Aug 31 08:33	0° \mathbb{Q}		evening rise	2035 Jul 27 06:26	12° \mathbb{Q} 39'55	
evening max el	2034 Sep 17 04:16	20° \mathbb{Q} 53'03	26°38'27		2035 Aug 05 15:28	0° \mathbb{P}	
retrograde	2034 Sep 30 03:00	28° \mathbb{Q} 06'59		desc. node	2035 Aug 15 20:27	16° \mathbb{P} 10'47	
evening set	2034 Oct 06 17:07	25° \mathbb{Q} 25'41			2035 Aug 26 12:51	0° \mathbb{Q}	
min. Earth dist.	2034 Oct 10 18:22	21° \mathbb{Q} 16'03	0.66016 AU	evening max el	2035 Aug 30 16:11	4° \mathbb{Q} 18'35	27°15'54
inferior conj	2034 Oct 12 11:36	19° \mathbb{Q} 13'12	-1°44'53	retrograde	2035 Sep 13 02:28	11° \mathbb{Q} 37'18	
minimum elong	2034 Oct 12 14:24	19° \mathbb{Q} 04'50	1°43'46	evening set	2035 Sep 20 02:49	8° \mathbb{Q} 53'44	

min. Earth dist.	2035 Sep 23 21:36	5°♌19'57	0.64712 AU	retrograde	2036 Aug 25 19:48	24°♍38'07	
inferior conj	2035 Sep 26 03:23	2°♌53'07	-2°43'09	evening set	2036 Sep 02 00:42	22°♍03'43	
minimum elong	2035 Sep 26 07:41	2°♌41'20	2°41'36	min. Earth dist.	2036 Sep 05 15:16	19°♍01'10	0.63062 AU
	2035 Sep 28 22:18	30°♋♍		inferior conj	2036 Sep 08 09:26	16°♍18'52	-3°38'06
morning rise	2035 Oct 02 13:31	27°♍23'40		minimum elong	2036 Sep 08 14:43	16°♍05'52	3°36'35
asc. node	2035 Oct 04 13:05	26°♍49'31		morning rise	2036 Sep 15 06:06	11°♍06'51	
direct	2035 Oct 05 04:53	26°♍47'14		direct	2036 Sep 17 17:20	10°♍38'16	
	2035 Oct 11 10:49	0°♌		asc. node	2036 Sep 20 10:09	11°♍13'15	
morning max el	2035 Oct 11 16:57	0°♌15'06	18°01'30	morning max el	2036 Sep 24 09:06	14°♍04'18	17°51'31
morning set	2035 Oct 29 08:34	26°♌56'49			2036 Oct 05 08:21	0°♌	
	2035 Oct 31 04:18	0°♍		morning set	2036 Oct 10 16:54	9°♌22'14	
desc. node	2035 Nov 11 19:44	19°♍05'05					
				superior conj	2036 Oct 22 10:46	29°♌37'05	0°41'43
superior conj	2035 Nov 12 01:57	19°♍30'03	-0°01'46	minimum elong	2036 Oct 22 14:39	29°♌53'15	0°41'11
minimum elong	2035 Nov 12 01:44	19°♍29'09	0°01'44		2036 Oct 22 16:16	0°♍	
behind sun begin	2035 Nov 11 15:14	18°♍47'05		desc. node	2036 Oct 28 16:45	9°♍52'31	
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max. Earth dist.	2035 Nov 16 08:45	26°♍18'54	1.44787 AU	evening rise	2036 Nov 06 18:45	24°♍12'23	
	2035 Nov 18 16:53	0°♌			2036 Nov 10 13:20	0°♌	
evening rise	2035 Nov 28 10:28	15°♌08'16			2036 Dec 01 09:40	0°♌	
	2035 Dec 08 03:27	0°♌		evening max el	2036 Dec 06 13:08	5°♌58'59	21°05'32
greatest brilliancy	2035 Dec 12 11:15	6°♌28'55	-0.6m	retrograde	2036 Dec 15 02:06	11°♌02'51	
evening max el	2035 Dec 24 13:18	22°♌28'14	19°59'17	asc. node	2036 Dec 17 09:23	10°♌33'20	
asc. node	2035 Dec 31 12:21	26°♌53'24		evening set	2036 Dec 19 03:40	9°♌29'25	
retrograde	2036 Jan 01 04:25	26°♌55'53		inferior conj	2036 Dec 24 12:25	3°♌16'37	2°15'07
evening set	2036 Jan 04 20:16	25°♌37'37		minimum elong	2036 Dec 24 09:56	3°♌25'11	2°14'18
inferior conj	2036 Jan 10 06:52	19°♌35'29	2°52'43	min. Earth dist.	2036 Dec 24 21:45	2°♌44'30	0.67560 AU
minimum elong	2036 Jan 10 04:15	19°♌44'14	2°52'02		2036 Dec 26 23:09	30°♋♌	
min. Earth dist.	2036 Jan 11 04:36	18°♌22'48	0.66926 AU	morning rise	2036 Dec 29 16:00	27°♌03'35	
morning rise	2036 Jan 15 12:02	13°♌22'08		direct	2037 Jan 03 22:57	24°♌44'46	
direct	2036 Jan 21 09:42	10°♌44'13			2037 Jan 13 11:53	0°♌	
morning max el	2036 Feb 02 06:22	17°♌48'49	25°10'22	morning max el	2037 Jan 14 14:49	1°♌06'00	23°43'19
desc. node	2036 Feb 07 18:57	23°♌59'35		desc. node	2037 Jan 24 15:58	13°♌06'39	
	2036 Feb 12 12:03	0°♌			2037 Feb 05 11:26	0°♌	
	2036 Mar 03 07:48	0°♌		morning set	2037 Feb 19 00:49	21°♌47'52	
morning set	2036 Mar 09 11:27	10°♌41'42		max. Earth dist.	2037 Feb 22 22:31	28°♌34'18	1.38716 AU
max. Earth dist.	2036 Mar 13 03:35	17°♌24'52	1.36635 AU		2037 Feb 23 17:52	0°♌	
superior conj	2036 Mar 19 07:54	29°♌17'25	-1°24'23	superior conj	2037 Mar 02 08:09	12°♌04'45	-1°46'47
minimum elong	2036 Mar 19 11:56	29°♌37'19	1°23'48	minimum elong	2037 Mar 02 12:22	12°♌24'35	1°46'24
	2036 Mar 19 16:31	0°♍		evening rise	2037 Mar 11 10:58	29°♌41'18	
evening rise	2036 Mar 27 14:27	15°♍56'21			2037 Mar 11 14:48	0°♍	
asc. node	2036 Mar 28 11:42	17°♍43'02		asc. node	2037 Mar 15 08:43	7°♍12'15	
	2036 Apr 03 22:09	0°♌		evening max el	2037 Mar 27 20:05	26°♍07'38	18°47'48
evening max el	2036 Apr 13 21:03	13°♌57'26	19°38'07		2037 Apr 03 16:24	0°♌	
retrograde	2036 Apr 23 13:18	18°♌37'49		retrograde	2037 Apr 05 00:06	0°♌06'06	
evening set	2036 Apr 25 14:07	18°♌26'21			2037 Apr 06 08:16	30°♋♍	
inferior conj	2036 May 04 06:34	14°♌23'01	0°25'39	evening set	2037 Apr 07 06:02	29°♍49'13	
minimum elong	2036 May 04 07:40	14°♌21'17	0°25'15	inferior conj	2037 Apr 15 02:56	25°♍29'09	2°01'39
desc. node	2036 May 05 18:09	13°♌26'43		minimum elong	2037 Apr 15 06:48	25°♍22'03	2°00'31
min. Earth dist.	2036 May 06 17:06	12°♌50'58	0.55742 AU	min. Earth dist.	2037 Apr 18 09:43	23°♍05'58	0.57323 AU
morning rise	2036 May 12 22:36	9°♌46'29		desc. node	2037 Apr 22 15:10	20°♍33'57	
direct	2036 May 17 08:29	9°♌02'52		morning rise	2037 Apr 23 04:26	20°♍18'50	
morning max el	2036 May 31 08:42	16°♌05'00	24°38'43	direct	2037 Apr 28 15:56	19°♍05'43	
	2036 Jun 11 13:06	0°♍		morning max el	2037 May 12 23:57	26°♍35'51	26°10'13
asc. node	2036 Jun 24 10:59	23°♍23'42			2037 May 16 05:46	0°♌	
morning set	2036 Jun 25 22:26	26°♍29'04			2037 Jun 04 18:27	0°♍	
	2036 Jun 27 14:02	0°♌		morning set	2037 Jun 10 09:34	11°♍22'11	
				asc. node	2037 Jun 11 08:00	13°♍21'02	
superior conj	2036 Jul 02 22:04	11°♌35'19	1°18'45				
minimum elong	2036 Jul 02 19:39	11°♌22'13	1°18'24	superior conj	2037 Jun 17 09:18	26°♍32'11	1°00'05
max. Earth dist.	2036 Jul 04 12:00	15°♌00'59	1.32922 AU	minimum elong	2037 Jun 17 07:05	26°♍19'59	0°59'41
evening rise	2036 Jul 10 04:06	26°♌57'32		max. Earth dist.	2037 Jun 17 22:07	27°♍42'36	1.32357 AU
	2036 Jul 11 16:16	0°♌			2037 Jun 18 23:11	0°♌	
	2036 Jul 28 23:16	0°♍		evening rise	2037 Jun 24 08:42	11°♌34'40	
desc. node	2036 Aug 01 17:28	5°♍18'06			2037 Jul 03 21:01	0°♌	
evening max el	2036 Aug 12 02:19	17°♍20'38	27°25'27	desc. node	2037 Jul 19 14:29	23°♌33'53	






































































































































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	2037 Jul 25 14:09	0°ྐ		desc. node	2038 Jul 06 11:30	10°Ω37'00	
retrograde	2037 Aug 08 05:46	6°ྐ59'35		evening max el	2038 Jul 07 07:08	11°Ω24'48	26°06'44
evening set	2037 Aug 15 06:27	4°ྐ47'34		retrograde	2038 Jul 21 06:59	18°Ω35'11	
min. Earth dist.	2037 Aug 18 22:24	2°ྐ06'05	0.61133 AU	evening set	2038 Jul 27 15:25	16°Ω57'08	
	2037 Aug 21 08:56	30°ꠔΩ		min. Earth dist.	2038 Jul 31 19:44	14°Ω20'42	0.59072 AU
inferior conj	2037 Aug 22 02:28	29°Ω21'42	-4°24'34	inferior conj	2038 Aug 04 02:55	11°Ω52'10	-4°54'00
minimum elong	2037 Aug 22 07:26	29°Ω10'55	4°23'37	minimum elong	2038 Aug 04 05:20	11°Ω47'37	4°53'50
morning rise	2037 Aug 29 10:07	24°Ω30'19		morning rise	2038 Aug 11 21:24	7°Ω23'44	
direct	2037 Aug 31 20:07	24°Ω06'40		direct	2038 Aug 14 08:49	7°Ω02'57	
asc. node	2037 Sep 07 07:12	27°Ω02'21		morning max el	2038 Aug 22 07:20	10°Ω51'17	18°28'59
morning max el	2037 Sep 07 22:56	27°Ω39'01	18°00'16	asc. node	2038 Aug 25 04:15	14°Ω02'23	
	2037 Sep 10 02:18	0°ྐ			2038 Sep 03 23:41	0°ྐ	
morning set	2037 Sep 23 19:09	22°ྐ38'55		morning set	2038 Sep 07 10:08	6°ྐ32'29	
	2037 Sep 27 18:59	0°Ω					
				superior conj	2038 Sep 16 09:22	23°ྐ37'33	1°34'21
superior conj	2037 Oct 03 22:34	11°Ω03'13	1°14'01	minimum elong	2038 Sep 16 12:25	23°ྐ51'43	1°34'08
minimum elong	2037 Oct 04 03:01	11°Ω22'47	1°13'31		2038 Sep 19 21:04	0°Ω	
max. Earth dist.	2037 Oct 11 12:33	24°Ω01'13	1.42132 AU	max. Earth dist.	2038 Sep 23 19:13	6°Ω55'55	1.40174 AU
	2037 Oct 15 04:07	0°ྐ		evening rise	2038 Sep 28 02:45	14°Ω15'59	
desc. node	2037 Oct 15 13:46	0°ྐ38'57		desc. node	2038 Oct 02 10:49	21°Ω21'09	
evening rise	2037 Oct 17 12:10	3°ྐ44'45			2038 Oct 07 23:26	0°ྐ	
	2037 Nov 03 22:40	0°ꠔ			2038 Oct 29 23:58	0°ꠔ	
evening max el	2037 Nov 19 07:33	19°ꠔ30'59	22°21'12	evening max el	2038 Nov 01 21:48	3°ꠔ05'41	23°41'03
retrograde	2037 Nov 28 22:01	25°ꠔ13'29		retrograde	2038 Nov 12 14:56	9°ꠔ24'56	
evening set	2037 Dec 03 11:14	23°ꠔ23'27		evening set	2038 Nov 17 17:22	7°ꠔ17'45	
asc. node	2037 Dec 04 06:25	22°ꠔ40'51		asc. node	2038 Nov 21 03:27	3°ꠔ33'29	
inferior conj	2037 Dec 08 19:43	17°ꠔ03'22	1°30'36	min. Earth dist.	2038 Nov 22 14:22	1°ꠔ37'06	0.67755 AU
minimum elong	2037 Dec 08 17:48	17°ꠔ10'01	1°29'52	inferior conj	2038 Nov 23 02:58	0°ꠔ54'08	0°40'32
min. Earth dist.	2037 Dec 08 17:47	17°ꠔ10'04	0.67831 AU	minimum elong	2038 Nov 23 02:01	0°ꠔ57'22	0°40'08
morning rise	2037 Dec 14 00:13	10°ꠔ52'36			2038 Nov 23 18:54	30°ꠔྐ	
direct	2037 Dec 18 16:12	8°ꠔ56'22		morning rise	2038 Nov 28 10:38	24°ྐ47'39	
morning max el	2037 Dec 28 02:01	14°ꠔ29'02	22°15'33	direct	2038 Dec 02 12:30	23°ྐ14'10	
	2038 Jan 09 13:32	0°ꠔ		morning max el	2038 Dec 10 19:31	28°ྐ02'23	20°54'50
desc. node	2038 Jan 11 12:59	2°ꠔ46'54			2038 Dec 12 15:41	0°ꠔ	
	2038 Jan 29 11:22	0°≈		desc. node	2038 Dec 29 10:01	22°ꠔ51'19	
morning set	2038 Jan 30 09:49	1°≈30'40			2039 Jan 03 04:05	0°ꠔ	
max. Earth dist.	2038 Feb 04 19:36	10°≈26'52	1.40864 AU	morning set	2039 Jan 09 15:59	10°ꠔ00'21	
				max. Earth dist.	2039 Jan 17 23:45	23°ꠔ15'51	1.42786 AU
					2039 Jan 22 02:00	0°≈	
superior conj	2038 Feb 12 14:40	23°≈58'27	-2°01'38				
minimum elong	2038 Feb 12 17:14	24°≈09'54	2°01'32	superior conj	2039 Jan 24 22:09	4°≈46'05	-2°04'14
	2038 Feb 15 22:41	0°ꠔ		minimum elong	2039 Jan 24 20:31	4°≈39'07	2°04'12
evening rise	2038 Feb 22 20:50	12°ꠔ51'13		evening rise	2039 Feb 05 16:09	25°≈17'34	
asc. node	2038 Mar 02 05:44	26°ꠔ18'07			2039 Feb 08 07:27	0°ꠔ	
	2038 Mar 04 10:56	0°ྐ		asc. node	2039 Feb 17 02:46	14°ꠔ52'44	
evening max el	2038 Mar 11 02:47	8°ྐ48'52	18°17'40	evening max el	2039 Feb 22 13:56	21°ꠔ51'55	18°07'17
retrograde	2038 Mar 18 06:07	12°ྐ22'16		retrograde	2039 Mar 01 04:12	25°ꠔ15'56	
evening set	2038 Mar 20 18:03	11°ྐ57'08		evening set	2039 Mar 03 21:27	24°ꠔ41'06	
inferior conj	2038 Mar 27 20:41	7°ྐ16'16	3°04'03	inferior conj	2039 Mar 10 09:28	19°ꠔ39'27	3°35'37
minimum elong	2038 Mar 28 00:09	7°ྐ08'50	3°03'21	minimum elong	2039 Mar 10 11:04	19°ꠔ35'28	3°35'28
min. Earth dist.	2038 Mar 31 06:50	4°ྐ21'41	0.59355 AU	min. Earth dist.	2039 Mar 13 11:22	16°ꠔ38'08	0.61496 AU
morning rise	2038 Apr 04 03:46	1°ྐ38'58		morning rise	2039 Mar 16 23:07	13°ꠔ44'40	
	2038 Apr 08 13:08	30°ꠔꠔ		direct	2039 Mar 23 19:20	11°ꠔ21'59	
desc. node	2038 Apr 09 12:10	29°ꠔ52'17		desc. node	2039 Mar 27 09:13	11°ꠔ57'46	
direct	2038 Apr 10 12:12	29°ꠔ49'35		morning max el	2039 Apr 06 23:28	19°ꠔ16'41	27°47'46
	2038 Apr 12 11:56	0°ྐ			2039 Apr 16 02:00	0°ྐ	
morning max el	2038 Apr 24 20:27	7°ྐ35'39	27°16'28		2039 May 04 13:49	0°ꠔ	
	2038 May 11 18:01	0°ꠔ		morning set	2039 May 09 22:57	10°ꠔ36'58	
morning set	2038 May 25 18:24	26°ꠔ07'18		max. Earth dist.	2039 May 15 21:09	23°ꠔ09'23	1.32382 AU
	2038 May 27 14:31	0°ྐ		asc. node	2039 May 16 02:04	23°ꠔ36'09	
asc. node	2038 May 29 05:02	3°ྐ26'55					
				superior conj	2039 May 17 07:36	26°ꠔ17'02	0°12'59
superior conj	2038 Jun 01 21:04	11°ྐ28'19	0°37'55	minimum elong	2039 May 17 07:00	26°ꠔ13'46	0°12'51
minimum elong	2038 Jun 01 19:28	11°ྐ19'32	0°37'36	behind sun begin	2039 May 17 03:59	25°ꠔ57'18	
max. Earth dist.	2038 Jun 01 10:32	10°ྐ30'20	1.32177 AU	behind sun end	2039 May 17 10:01	26°ꠔ30'14	
evening rise	2038 Jun 08 17:45	26°ྐ23'25			2039 May 19 00:22	0°ྐ	
	2038 Jun 10 11:13	0°ꠔ					

evening rise	2039 May 24 05:06	11° Π 15'34		superior conj	2040 Apr 30 15:10	10° \mathcal{B} 52'43	-0°14'00
	2039 Jun 02 18:31	0° \mathfrak{D}		minimum elong	2040 Apr 30 15:51	10° \mathcal{B} 56'24	0°13'50
evening max el	2039 Jun 18 23:10	22° \mathfrak{D} 18'46	24°44'42	behind sun begin	2040 Apr 30 13:13	10° \mathcal{B} 42'13	
desc. node	2039 Jun 23 08:31	25° \mathfrak{D} 57'24		behind sun end	2040 Apr 30 18:30	11° \mathcal{B} 10'36	
retrograde	2039 Jul 02 21:48	29° \mathfrak{D} 22'43		asc. node	2040 May 01 23:08	13° \mathcal{B} 44'47	
evening set	2039 Jul 08 00:39	28° \mathfrak{D} 23'20		evening rise	2040 May 07 16:53	26° \mathcal{B} 04'58	
min. Earth dist.	2039 Jul 13 10:24	25° \mathfrak{D} 33'25	0.57127 AU		2040 May 09 13:51	0° Π	
inferior conj	2039 Jul 16 07:44	23° \mathfrak{D} 40'20	-4°53'52		2040 May 27 20:42	0° \mathfrak{D}	
minimum elong	2039 Jul 16 05:10	23° \mathfrak{D} 44'32	4°53'42	evening max el	2040 May 30 12:55	2° \mathfrak{D} 48'52	23°09'31
morning rise	2039 Jul 24 12:24	19° \mathfrak{D} 33'37		desc. node	2040 Jun 09 05:32	8° \mathfrak{D} 59'40	
direct	2039 Jul 27 03:07	19° \mathfrak{D} 14'26		retrograde	2040 Jun 13 00:19	9° \mathfrak{D} 32'16	
morning max el	2039 Aug 05 07:13	23° \mathfrak{D} 31'04	19°18'49	evening set	2040 Jun 16 15:00	9° \mathfrak{D} 03'40	
	2039 Aug 10 17:38	0° Ω		min. Earth dist.	2040 Jun 23 22:28	5° \mathfrak{D} 46'00	0.55641 AU
asc. node	2039 Aug 12 01:18	1° Ω 57'48		inferior conj	2040 Jun 25 16:53	4° \mathfrak{D} 43'59	-4°10'15
morning set	2039 Aug 22 09:57	20° Ω 51'37		minimum elong	2040 Jun 25 09:38	4° \mathfrak{D} 54'38	4°08'43
	2039 Aug 26 23:38	0° \mathfrak{P}		morning rise	2040 Jul 04 06:48	0° \mathfrak{D} 50'34	
				direct	2040 Jul 07 02:21	0° \mathfrak{D} 31'33	
superior conj	2039 Aug 30 13:26	7° \mathfrak{P} 03'18	1°44'08	morning max el	2040 Jul 17 20:12	5° \mathfrak{D} 30'08	20°29'46
minimum elong	2039 Aug 30 14:35	7° \mathfrak{P} 08'54	1°44'06	asc. node	2040 Jul 28 22:21	20° \mathfrak{D} 35'59	
max. Earth dist.	2039 Sep 05 22:48	19° \mathfrak{P} 08'22	1.38115 AU		2040 Aug 02 22:31	0° Ω	
evening rise	2039 Sep 09 17:19	25° \mathfrak{P} 54'04		morning set	2040 Aug 05 15:44	5° Ω 28'53	
	2039 Sep 12 02:05	0° \mathfrak{L}					
desc. node	2039 Sep 19 07:52	11° \mathfrak{L} 54'40		superior conj	2040 Aug 13 05:53	21° Ω 06'18	1°45'14
	2039 Oct 01 13:30	0° \mathfrak{M}		minimum elong	2040 Aug 13 05:22	21° Ω 03'40	1°45'13
evening max el	2039 Oct 15 09:55	16° \mathfrak{M} 43'42	24°58'46		2040 Aug 17 17:02	0° \mathfrak{P}	
retrograde	2039 Oct 27 03:54	23° \mathfrak{M} 32'59		max. Earth dist.	2040 Aug 18 05:10	0° \mathfrak{P} 58'58	1.36211 AU
evening set	2039 Nov 01 20:27	21° \mathfrak{M} 09'41		evening rise	2040 Aug 22 05:03	8° \mathfrak{P} 32'35	
min. Earth dist.	2039 Nov 06 09:13	16° \mathfrak{M} 03'08	0.67339 AU		2040 Sep 03 18:29	0° \mathfrak{L}	
inferior conj	2039 Nov 07 08:26	14° \mathfrak{M} 46'45	-0°13'51	desc. node	2040 Sep 05 04:55	2° \mathfrak{L} 14'19	
minimum elong	2039 Nov 07 08:47	14° \mathfrak{M} 45'37	0°13'42		2040 Sep 26 12:23	0° \mathfrak{M}	
transit middle	2039 Nov 07 08:47	14° \mathfrak{M} 45'37	0°13'42	evening max el	2040 Sep 26 21:55	0° \mathfrak{M} 23'18	26°06'52
transit begin	2039 Nov 07 07:18	14° \mathfrak{M} 50'29		retrograde	2040 Oct 09 12:05	7° \mathfrak{M} 31'39	
transit end	2039 Nov 07 10:16	14° \mathfrak{M} 40'44		evening set	2040 Oct 15 18:35	4° \mathfrak{M} 55'32	
asc. node	2039 Nov 08 00:30	13° \mathfrak{M} 54'10		min. Earth dist.	2040 Oct 19 23:54	0° \mathfrak{M} 24'37	0.66590 AU
morning rise	2039 Nov 12 21:17	8° \mathfrak{M} 46'47			2040 Oct 20 07:53	30° \mathfrak{R} \mathfrak{L}	
direct	2039 Nov 16 10:38	7° \mathfrak{M} 33'51		inferior conj	2040 Oct 21 10:16	28° \mathfrak{L} 37'46	-1°11'13
morning max el	2039 Nov 23 20:51	11° \mathfrak{M} 46'57	19°46'17	minimum elong	2040 Oct 21 12:08	28° \mathfrak{L} 31'56	1°10'25
greatest brilliancy	2039 Dec 07 05:57	29° \mathfrak{M} 30'32	-0.7m	asc. node	2040 Oct 24 21:33	24° \mathfrak{L} 39'14	
	2039 Dec 07 13:53	0° \mathfrak{X}		morning rise	2040 Oct 27 06:07	22° \mathfrak{L} 47'03	
desc. node	2039 Dec 16 07:05	13° \mathfrak{X} 13'17		direct	2040 Oct 30 09:06	21° \mathfrak{L} 51'12	
morning set	2039 Dec 19 12:15	18° \mathfrak{X} 10'26		morning max el	2040 Nov 06 05:17	25° \mathfrak{L} 39'22	18°52'37
	2039 Dec 27 02:34	0° \mathfrak{Z}			2040 Nov 09 22:57	0° \mathfrak{M}	
max. Earth dist.	2039 Dec 31 11:02	6° \mathfrak{Z} 52'29	1.44228 AU	morning set	2040 Nov 27 23:31	27° \mathfrak{M} 11'38	
					2040 Nov 29 18:20	0° \mathfrak{X}	
superior conj	2040 Jan 05 03:23	14° \mathfrak{Z} 22'36	-1°49'42	desc. node	2040 Dec 02 04:09	3° \mathfrak{X} 47'08	
minimum elong	2040 Jan 04 20:20	13° \mathfrak{Z} 54'09	1°49'13	max. Earth dist.	2040 Dec 13 03:33	21° \mathfrak{X} 00'48	1.45025 AU
	2040 Jan 14 14:58	0° \mathfrak{A}					
evening rise	2040 Jan 18 16:38	6° \mathfrak{A} 52'25		superior conj	2040 Dec 14 10:39	23° \mathfrak{X} 03'08	-1°16'17
	2040 Feb 01 21:16	0° \mathfrak{H}		minimum elong	2040 Dec 14 02:03	22° \mathfrak{X} 29'17	1°15'19
asc. node	2040 Feb 03 23:49	2° \mathfrak{H} 46'50			2040 Dec 18 20:17	0° \mathfrak{Z}	
evening max el	2040 Feb 06 02:33	5° \mathfrak{H} 09'26	18°16'03	evening rise	2040 Dec 29 18:27	17° \mathfrak{Z} 29'20	
retrograde	2040 Feb 12 13:39	8° \mathfrak{H} 37'27			2041 Jan 06 11:59	0° \mathfrak{A}	
evening set	2040 Feb 15 12:03	7° \mathfrak{H} 51'54		evening max el	2041 Jan 19 14:00	18° \mathfrak{A} 34'45	18°43'05
inferior conj	2040 Feb 21 13:13	2° \mathfrak{H} 30'48	3°43'17	asc. node	2041 Jan 20 20:51	19° \mathfrak{A} 47'52	
minimum elong	2040 Feb 21 12:55	2° \mathfrak{H} 31'38	3°43'17	retrograde	2041 Jan 26 06:14	22° \mathfrak{A} 18'10	
	2040 Feb 23 19:37	30° \mathfrak{R} \mathfrak{A}		evening set	2041 Jan 29 10:27	21° \mathfrak{A} 20'50	
min. Earth dist.	2040 Feb 24 01:11	29° \mathfrak{A} 45'00	0.63479 AU	inferior conj	2041 Feb 04 04:00	15° \mathfrak{A} 42'02	3°33'24
morning rise	2040 Feb 27 12:56	26° \mathfrak{A} 26'12		minimum elong	2041 Feb 04 02:18	15° \mathfrak{A} 47'10	3°33'13
direct	2040 Mar 05 11:20	23° \mathfrak{A} 41'27		min. Earth dist.	2041 Feb 06 00:25	13° \mathfrak{A} 27'10	0.65138 AU
desc. node	2040 Mar 13 06:15	26° \mathfrak{A} 30'47		morning rise	2041 Feb 09 17:44	9° \mathfrak{A} 32'13	
	2040 Mar 17 14:43	0° \mathfrak{H}		direct	2041 Feb 16 10:27	6° \mathfrak{A} 40'13	
morning max el	2040 Mar 19 07:11	1° \mathfrak{H} 37'08	27°41'40	desc. node	2041 Feb 28 03:18	12° \mathfrak{A} 55'18	
	2040 Apr 09 06:33	0° \mathfrak{Y}		morning max el	2041 Mar 01 16:46	14° \mathfrak{A} 26'09	27°01'57
morning set	2040 Apr 22 20:54	24° \mathfrak{Y} 43'44			2041 Mar 14 09:21	0° \mathfrak{H}	
	2040 Apr 25 11:19	0° \mathcal{B}			2041 Apr 01 23:04	0° \mathfrak{Y}	
max. Earth dist.	2040 Apr 28 01:54	5° \mathcal{B} 26'17	1.32998 AU	morning set	2041 Apr 06 09:10	8° \mathfrak{Y} 17'27	
				max. Earth dist.	2041 Apr 10 21:01	17° \mathfrak{Y} 10'46	1.34059 AU

superior conj	2041 Apr 14 17:42	25° Υ 08'36	-0°41'57	superior conj	2042 Mar 29 12:42	8° Υ 57'27	-1°09'28
minimum elong	2041 Apr 14 19:50	25° Υ 19'43	0°41'31	minimum elong	2042 Mar 29 16:10	9° Υ 14'58	1°08'54
	2041 Apr 17 01:04	0° B		asc. node	2042 Apr 05 17:13	23° Υ 42'41	
asc. node	2041 Apr 18 20:11	3° B 48'23		evening rise	2042 Apr 06 10:11	25° Υ 09'39	
evening rise	2041 Apr 22 03:15	10° B 45'03			2042 Apr 08 19:35	0° B	
	2041 May 02 04:57	0° II		evening max el	2042 Apr 24 13:25	24° B 35'24	20°15'55
evening max el	2041 May 12 07:54	13° II 26'31	21°36'14	retrograde	2042 May 05 05:13	29° B 45'11	
retrograde	2041 May 24 15:38	19° II 28'51		evening set	2042 May 07 06:06	29° B 34'40	
evening set	2041 May 27 02:48	19° II 15'07		desc. node	2042 May 13 23:32	26° B 57'38	
desc. node	2041 May 27 02:31	19° II 15'15		inferior conj	2042 May 16 08:04	25° B 36'18	-0°41'15
inferior conj	2041 Jun 05 12:39	15° II 13'57	-2°39'28	minimum elong	2042 May 16 06:08	25° B 39'09	0°40'32
minimum elong	2041 Jun 05 05:38	15° II 23'46	2°37'12	min. Earth dist.	2042 May 17 23:14	24° B 38'40	0.55181 AU
min. Earth dist.	2041 Jun 05 10:23	15° II 17'07	0.54933 AU	morning rise	2042 May 25 04:44	21° B 19'07	
morning rise	2041 Jun 14 09:20	11° II 18'07		direct	2042 May 29 01:31	20° B 46'42	
direct	2041 Jun 17 13:41	10° II 55'57		morning max el	2042 Jun 11 14:55	27° B 24'38	23°40'27
morning max el	2041 Jun 29 21:49	16° II 45'16	21°59'24		2042 Jun 14 03:57	0° II	
	2041 Jul 10 06:29	0° C		asc. node	2042 Jul 02 16:29	29° II 20'57	
asc. node	2041 Jul 15 19:26	9° C 46'45			2042 Jul 03 00:11	0° C	
morning set	2041 Jul 21 01:20	20° C 18'30		morning set	2042 Jul 05 12:51	5° C 14'07	
	2041 Jul 25 15:27	0° O					
superior conj	2041 Jul 28 06:58	5° O 35'42	1°39'17	superior conj	2042 Jul 12 13:44	20° C 21'39	1°27'38
minimum elong	2041 Jul 28 05:17	5° O 26'51	1°39'10	minimum elong	2042 Jul 12 11:26	20° C 09'18	1°27'22
max. Earth dist.	2041 Jul 31 19:48	12° O 55'25	1.34627 AU	max. Earth dist.	2042 Jul 14 19:44	25° C 10'37	1.33431 AU
evening rise	2041 Aug 05 09:18	21° O 59'38			2042 Jul 17 02:47	0° O	
	2041 Aug 09 15:37	0° np		evening rise	2042 Jul 20 01:40	6° O 02'00	
desc. node	2041 Aug 23 01:55	22° np 13'44			2042 Aug 02 05:59	0° np	
	2041 Aug 28 12:52	0° A		desc. node	2042 Aug 09 22:54	11° np 43'28	
evening max el	2041 Sep 09 10:20	13° A 58'13	26°57'35	evening max el	2042 Aug 22 21:52	27° np 15'50	27°23'45
retrograde	2041 Sep 22 14:44	21° A 14'49			2042 Aug 26 00:54	0° A	
evening set	2041 Sep 29 09:34	18° A 31'45		retrograde	2042 Sep 05 11:21	4° A 33'39	
min. Earth dist.	2041 Oct 03 08:02	14° A 37'19	0.65499 AU	evening set	2042 Sep 12 14:37	1° A 52'38	
inferior conj	2041 Oct 05 06:25	12° A 23'48	-2°09'47		2042 Sep 14 19:45	30° R np	
minimum elong	2041 Oct 05 09:53	12° A 13'47	2°08'26	min. Earth dist.	2042 Sep 16 07:17	28° np 33'00	0.64054 AU
morning rise	2041 Oct 11 10:55	6° A 45'24		inferior conj	2042 Sep 18 18:23	25° np 58'35	-3°07'06
asc. node	2041 Oct 11 18:36	6° A 36'15		minimum elong	2042 Sep 18 23:13	25° np 45'56	3°05'30
direct	2041 Oct 14 05:52	6° A 02'49		morning rise	2042 Sep 25 08:53	20° np 36'03	
morning max el	2041 Oct 20 18:52	9° A 35'32	18°15'16	direct	2042 Sep 27 22:18	20° np 03'12	
	2041 Nov 03 22:43	0° M		asc. node	2042 Sep 28 15:39	20° np 05'52	
morning set	2041 Nov 08 15:16	7° M 39'36		morning max el	2042 Oct 04 10:53	23° np 28'59	17°55'04
desc. node	2041 Nov 19 01:13	24° M 29'10			2042 Oct 09 15:18	0° A	
	2041 Nov 22 12:31	0° x		morning set	2042 Oct 21 10:25	19° A 27'08	
superior conj	2041 Nov 23 12:49	1° x 36'00	-0°29'47		2042 Oct 27 15:27	0° M	
minimum elong	2041 Nov 23 08:58	1° x 20'49	0°29'15	superior conj	2042 Nov 03 06:45	10° M 58'30	0°17'51
max. Earth dist.	2041 Nov 25 22:46	5° x 24'18	1.45091 AU	minimum elong	2042 Nov 03 08:43	11° M 06'33	0°17'34
evening rise	2041 Dec 09 21:21	27° x 12'10		desc. node	2042 Nov 05 22:13	15° M 15'20	
	2041 Dec 11 16:24	0° Z		max. Earth dist.	2042 Nov 08 17:10	19° M 43'05	1.44422 AU
greatest brilliancy	2041 Dec 21 14:43	15° Z 22'32	-0.7m		2042 Nov 15 06:05	0° x	
	2042 Jan 01 01:20	0° A		evening rise	2042 Nov 19 08:14	6° x 19'41	
evening max el	2042 Jan 02 22:05	2° A 03'52	19°27'03		2042 Dec 05 01:51	0° Z	
asc. node	2042 Jan 07 17:52	5° A 41'56		evening max el	2042 Dec 17 01:05	15° Z 33'56	20°26'01
retrograde	2042 Jan 10 02:48	6° A 12'39		retrograde	2042 Dec 25 00:44	20° Z 16'14	
evening set	2042 Jan 13 14:01	5° A 02'17		asc. node	2042 Dec 25 14:54	20° Z 14'17	
	2042 Jan 18 10:25	30° R Z		evening set	2042 Dec 28 20:35	18° Z 51'28	
inferior conj	2042 Jan 19 02:32	29° Z 07'53	3°10'32	inferior conj	2043 Jan 03 06:10	12° Z 44'16	2°37'44
minimum elong	2042 Jan 19 00:05	29° Z 15'50	3°10'01	minimum elong	2043 Jan 03 03:33	12° Z 53'10	2°36'57
min. Earth dist.	2042 Jan 20 08:03	27° Z 31'55	0.66396 AU	min. Earth dist.	2043 Jan 03 22:22	11° Z 49'17	0.67241 AU
morning rise	2042 Jan 24 09:55	22° Z 55'30		morning rise	2043 Jan 08 10:20	6° Z 31'02	
direct	2042 Jan 30 15:32	20° Z 09'37		direct	2043 Jan 14 01:50	4° Z 00'52	
morning max el	2042 Feb 12 02:07	27° Z 32'36	25°56'14	morning max el	2043 Jan 25 10:40	10° Z 47'45	24°34'09
	2042 Feb 14 09:52	0° A		desc. node	2043 Feb 01 21:25	19° Z 22'37	
desc. node	2042 Feb 15 00:21	0° A 40'22			2043 Feb 09 17:53	0° A	
	2042 Mar 08 01:47	0° H			2043 Feb 28 18:44	0° H	
morning set	2042 Mar 20 07:39	21° H 06'13		morning set	2043 Mar 02 10:59	2° H 55'16	
max. Earth dist.	2042 Mar 24 04:38	28° H 24'41	1.35581 AU	max. Earth dist.	2043 Mar 06 02:54	9° H 28'30	1.37496 AU
	2042 Mar 25 00:21	0° Y		superior conj	2043 Mar 12 20:59	22° H 10'36	-1°34'33

minimum elong	2043 Mar 13 01:15	22° K 31'17	1°34'01	minimum elong	2044 Feb 23 18:04	4° K 53'52	1°54'00
	2043 Mar 16 20:35	0° Y		evening rise	2044 Mar 04 03:48	22° K 43'18	
evening rise	2043 Mar 21 11:21	9° Y 12'02			2044 Mar 07 23:49	0° Y	
asc. node	2043 Mar 23 14:14	13° Y 23'08		asc. node	2044 Mar 09 11:15	2° Y 43'31	
	2043 Apr 02 00:55	0° B		evening max el	2044 Mar 20 09:13	18° Y 48'53	18°32'33
evening max el	2043 Apr 07 06:33	6° B 24'21	19°14'10	retrograde	2044 Mar 28 01:31	22° Y 34'59	
retrograde	2043 Apr 16 06:18	10° B 45'30		evening set	2044 Mar 30 09:52	22° Y 15'00	
evening set	2043 Apr 18 08:51	10° B 32'11		inferior conj	2044 Apr 06 22:40	17° Y 46'25	2°32'13
inferior conj	2043 Apr 26 17:05	6° B 22'10	1°10'11	minimum elong	2044 Apr 07 02:40	17° Y 38'35	2°31'11
minimum elong	2043 Apr 26 19:48	6° B 17'35	1°09'16	min. Earth dist.	2044 Apr 10 08:42	15° Y 06'48	0.58148 AU
min. Earth dist.	2043 Apr 29 14:12	4° B 26'52	0.56335 AU	morning rise	2044 Apr 14 16:26	12° Y 23'01	
desc. node	2043 Apr 30 20:33	3° B 39'14		desc. node	2044 Apr 16 17:36	11° Y 32'31	
morning rise	2043 May 05 03:48	1° B 30'59		direct	2044 Apr 20 13:34	10° Y 54'46	
direct	2043 May 10 00:20	0° B 36'33		morning max el	2044 May 04 22:47	18° Y 33'43	26°42'09
morning max el	2043 May 24 05:25	7° B 51'57	25°19'54		2044 May 14 13:09	0° B	
	2043 Jun 09 13:47	0° II			2044 Jun 01 00:42	0° II	
asc. node	2043 Jun 19 13:31	19° II 11'57		morning set	2044 Jun 03 11:01	5° II 01'06	
morning set	2043 Jun 20 00:38	20° II 10'23		asc. node	2044 Jun 05 10:34	9° II 13'38	
	2043 Jun 24 14:00	0° E					
superior conj	2043 Jun 26 23:56	5° E 17'00	1°11'18	superior conj	2044 Jun 10 11:38	20° II 14'34	0°51'04
minimum elong	2043 Jun 26 21:33	5° E 03'58	1°10'55	minimum elong	2044 Jun 10 09:38	20° II 03'32	0°50'41
max. Earth dist.	2043 Jun 28 03:03	7° E 45'05	1.32636 AU	max. Earth dist.	2044 Jun 10 14:28	20° II 30'12	1.32233 AU
evening rise	2043 Jul 04 02:39	20° E 29'20			2044 Jun 14 22:45	0° E	
	2043 Jul 08 21:15	0° O		evening rise	2044 Jun 17 09:25	5° E 12'17	
	2043 Jul 27 10:18	0° P			2044 Jun 30 13:29	0° O	
desc. node	2043 Jul 27 19:53	0° P 31'12		desc. node	2044 Jul 13 16:54	18° O 19'17	
evening max el	2043 Aug 05 06:19	10° P 03'08	27°19'37	evening max el	2044 Jul 17 09:14	22° O 08'44	26°42'27
retrograde	2043 Aug 19 01:33	17° P 19'09		retrograde	2044 Jul 31 08:22	29° O 22'01	
evening set	2043 Aug 26 06:09	14° P 52'17		evening set	2044 Aug 07 03:42	27° O 23'05	
min. Earth dist.	2043 Aug 29 20:14	12° P 00'40	0.62276 AU	min. Earth dist.	2044 Aug 10 23:02	24° O 45'58	0.60258 AU
inferior conj	2043 Sep 01 19:17	9° P 15'23	-3°59'15	inferior conj	2044 Aug 14 05:41	22° O 05'37	-4°39'49
minimum elong	2043 Sep 02 00:39	9° P 02'52	3°57'55	minimum elong	2044 Aug 14 09:53	21° O 56'59	4°39'13
morning rise	2043 Sep 08 20:39	4° P 12'05		morning rise	2044 Aug 21 18:03	17° O 24'08	
direct	2043 Sep 11 07:04	3° P 45'53		direct	2044 Aug 24 04:12	17° O 02'04	
asc. node	2043 Sep 15 12:43	5° P 07'32		morning max el	2044 Aug 31 14:27	20° O 40'03	18°09'59
morning max el	2043 Sep 18 02:28	7° P 13'12	17°52'55	asc. node	2044 Sep 01 09:47	21° O 28'55	
	2043 Oct 02 20:45	0° A			2044 Sep 07 15:30	0° P	
morning set	2043 Oct 04 03:00	2° A 15'56		morning set	2044 Sep 16 11:14	15° P 49'50	
					2044 Sep 24 01:38	0° A	
superior conj	2043 Oct 15 03:13	21° A 39'49	0°56'55	superior conj	2044 Sep 26 01:32	3° A 37'19	1°24'03
minimum elong	2043 Oct 15 07:42	21° A 58'54	0°56'21	minimum elong	2044 Sep 26 05:32	3° A 55'18	1°23'40
	2043 Oct 20 02:23	0° M		max. Earth dist.	2044 Oct 03 16:34	16° A 55'42	1.41322 AU
max. Earth dist.	2043 Oct 22 07:38	3° M 38'20	1.43108 AU	evening rise	2044 Oct 08 19:46	25° A 25'11	
desc. node	2043 Oct 23 19:13	6° M 02'34		desc. node	2044 Oct 09 16:15	26° A 47'53	
evening rise	2043 Oct 29 18:15	15° M 29'59			2044 Oct 11 16:22	0° M	
	2043 Nov 08 06:25	0° X			2044 Nov 01 02:35	0° X	
evening max el	2043 Nov 29 22:22	29° X 04'14	21°36'51	evening max el	2044 Nov 11 14:42	12° X 37'08	22°55'05
	2043 Nov 30 20:54	0° Z		retrograde	2044 Nov 21 16:52	18° X 36'30	
retrograde	2043 Dec 08 21:58	4° Z 25'00		evening set	2044 Nov 26 11:24	16° X 39'20	
asc. node	2043 Dec 12 11:56	3° Z 14'22		asc. node	2044 Nov 28 08:59	14° X 46'49	
evening set	2043 Dec 13 04:15	2° Z 44'31		inferior conj	2044 Dec 01 20:11	10° X 17'07	1°10'00
	2043 Dec 15 20:44	30° R X		minimum elong	2044 Dec 01 18:38	10° X 22'28	1°09'22
inferior conj	2043 Dec 18 12:40	26° X 27'54	1°57'01	min. Earth dist.	2044 Dec 01 13:43	10° X 39'26	0.67831 AU
minimum elong	2043 Dec 18 10:23	26° X 35'51	1°56'12	morning rise	2044 Dec 07 01:45	4° X 07'38	
min. Earth dist.	2043 Dec 18 17:02	26° X 12'48	0.67710 AU	direct	2044 Dec 11 11:31	2° X 21'10	
morning rise	2043 Dec 23 16:21	20° X 15'31		morning max el	2044 Dec 20 09:30	7° X 34'38	21°39'58
direct	2043 Dec 28 16:45	18° X 06'20		desc. node	2045 Jan 05 15:29	28° X 36'49	
morning max el	2044 Jan 07 20:00	24° X 07'31	23°05'39		2045 Jan 06 14:20	0° Z	
	2044 Jan 13 01:22	0° Z		morning set	2045 Jan 21 09:25	22° Z 35'31	
desc. node	2044 Jan 19 18:26	8° Z 45'04			2045 Jan 25 23:34	0° A	
	2044 Feb 03 04:39	0° A		max. Earth dist.	2045 Jan 27 20:58	3° A 06'57	1.41720 AU
morning set	2044 Feb 11 12:48	13° A 27'13					
max. Earth dist.	2044 Feb 15 21:53	20° A 53'08	1.39630 AU	superior conj	2045 Feb 04 11:36	16° A 03'22	-2°04'33
	2044 Feb 21 01:40	0° K		minimum elong	2045 Feb 04 12:42	16° A 08'08	2°04'32
superior conj	2044 Feb 23 14:16	4° K 36'23	-1°54'17		2045 Feb 12 06:44	0° K	
				evening rise	2045 Feb 15 07:59	5° K 35'33	

asc. node	2045 Feb 24 08:18	21° K 37'14		minimum elong	2046 Jan 16 04:01	26° Z 03'53	2°00'14
	2045 Mar 02 04:45	0° Y			2046 Jan 18 12:42	0° \approx	
evening max el	2045 Mar 03 18:16	1° Y 40'46	18°10'56	evening rise	2046 Jan 28 19:43	17° \approx 40'09	
retrograde	2045 Mar 10 14:42	5° Y 08'07			2046 Feb 04 22:12	0° K	
evening set	2045 Mar 13 04:58	4° Y 39'03		asc. node	2046 Feb 11 05:20	9° K 55'45	
	2045 Mar 19 20:22	30° R K		evening max el	2046 Feb 15 06:25	14° K 50'49	18°08'47
inferior conj	2045 Mar 20 00:56	29° K 49'35	3°20'45	retrograde	2046 Feb 21 18:00	18° K 14'38	
minimum elong	2045 Mar 20 03:42	29° K 43'18	3°20'20	evening set	2046 Feb 24 13:34	17° K 35'11	
min. Earth dist.	2045 Mar 23 08:49	26° K 48'52	0.60273 AU	inferior conj	2046 Mar 02 20:31	12° K 25'06	3°41'20
morning rise	2045 Mar 27 00:18	24° K 03'48		minimum elong	2046 Mar 02 21:17	12° K 23'07	3°41'19
direct	2045 Apr 02 15:10	21° K 58'54		min. Earth dist.	2046 Mar 05 16:55	9° K 28'11	0.62375 AU
desc. node	2045 Apr 03 14:38	22° K 01'32		morning rise	2046 Mar 09 03:48	6° K 25'45	
morning max el	2045 Apr 16 21:56	29° K 49'51	27°34'13	direct	2046 Mar 16 02:12	3° K 52'01	
	2045 Apr 17 02:02	0° Y		desc. node	2046 Mar 21 11:41	5° K 13'30	
	2045 May 08 12:07	0° B		morning max el	2046 Mar 30 03:00	11° K 47'25	27°49'41
morning set	2045 May 18 18:17	19° B 40'22			2046 Apr 13 12:35	0° Y	
asc. node	2045 May 23 07:36	29° B 21'27			2046 Apr 30 20:06	0° B	
	2045 May 23 14:42	0° II		morning set	2046 May 02 20:22	4° B 01'26	
max. Earth dist.	2045 May 25 02:24	3° II 14'56	1.32216 AU	max. Earth dist.	2046 May 08 11:05	15° B 46'38	1.32592 AU
superior conj	2045 May 25 23:06	5° II 08'28	0°27'39	superior conj	2046 May 10 08:38	19° B 52'49	0°01'46
minimum elong	2045 May 25 21:54	5° II 01'48	0°27'24	minimum elong	2046 May 10 08:34	19° B 52'22	0°01'45
evening rise	2045 Jun 01 19:41	20° II 03'22		behind sun begin	2046 May 10 03:25	19° B 24'26	
	2045 Jun 06 16:20	0° E		behind sun end	2046 May 10 13:42	20° B 20'20	
	2045 Jun 25 21:27	0° Ω		asc. node	2046 May 10 04:39	19° B 31'09	
evening max el	2045 Jun 29 05:13	3° Ω 27'59	25°34'26		2046 May 15 00:18	0° II	
desc. node	2045 Jun 30 13:55	4° Ω 43'00		evening rise	2046 May 17 07:29	4° II 55'46	
retrograde	2045 Jul 13 05:38	10° Ω 36'26			2046 May 30 16:52	0° E	
evening set	2045 Jul 19 02:39	9° Ω 15'19		evening max el	2046 Jun 10 19:46	14° E 09'53	24°04'59
min. Earth dist.	2045 Jul 23 17:24	6° Ω 34'54	0.58209 AU	desc. node	2046 Jun 17 10:57	19° E 10'11	
inferior conj	2045 Jul 26 22:05	4° Ω 19'20	-4°58'30	retrograde	2046 Jun 24 14:58	21° E 06'31	
minimum elong	2045 Jul 26 22:37	4° Ω 18'23	4°58'29	evening set	2046 Jun 29 02:36	20° E 21'59	
morning rise	2045 Aug 03 20:58	0° Ω 00'18		min. Earth dist.	2046 Jul 05 06:29	17° E 21'56	0.56423 AU
	2045 Aug 03 21:25	30° R E		inferior conj	2046 Jul 07 18:23	15° E 49'22	-4°41'21
direct	2045 Aug 06 09:28	29° E 40'23		minimum elong	2046 Jul 07 13:31	15° E 56'57	4°40'44
	2045 Aug 08 19:52	0° Ω		morning rise	2046 Jul 16 03:05	11° E 49'33	
morning max el	2045 Aug 14 19:35	3° Ω 39'40	18°47'31	direct	2046 Jul 18 19:51	11° E 30'30	
asc. node	2045 Aug 19 06:50	8° Ω 54'18		morning max el	2046 Jul 28 14:59	16° E 03'17	19°46'23
morning set	2045 Aug 31 06:25	29° Ω 55'32		asc. node	2046 Aug 06 03:54	27° E 09'51	
	2045 Aug 31 07:20	0° M			2046 Aug 07 20:08	0° Ω	
				morning set	2046 Aug 15 09:08	14° Ω 24'05	
superior conj	2045 Sep 08 20:20	16° M 35'15	1°39'41	superior conj	2046 Aug 23 06:14	0° M 18'50	1°45'34
minimum elong	2045 Sep 08 22:35	16° M 45'55	1°39'33	minimum elong	2046 Aug 23 06:37	0° M 20'47	1°45'33
max. Earth dist.	2045 Sep 15 21:15	29° M 30'40	1.39295 AU		2046 Aug 23 02:26	0° M	
	2045 Sep 16 03:53	0° E		max. Earth dist.	2046 Aug 29 01:50	11° M 33'24	1.37283 AU
evening rise	2045 Sep 19 20:44	6° E 25'32		evening rise	2046 Sep 01 20:54	18° M 31'13	
desc. node	2045 Sep 26 13:17	17° E 27'02			2046 Sep 08 12:25	0° E	
	2045 Oct 04 17:35	0° M		desc. node	2046 Sep 13 10:19	7° E 55'38	
evening max el	2045 Oct 25 03:56	26° M 13'53	24°14'55		2046 Sep 28 22:44	0° M	
	2045 Oct 29 11:42	0° Z		evening max el	2046 Oct 07 16:00	9° M 53'46	25°29'19
retrograde	2045 Nov 05 08:07	2° Z 46'46		retrograde	2046 Oct 19 18:56	16° M 51'37	
evening set	2045 Nov 10 16:25	0° Z 32'47		evening set	2046 Oct 25 17:36	14° M 22'21	
	2045 Nov 11 07:01	30° R M		min. Earth dist.	2046 Oct 30 03:12	9° M 30'56	0.67072 AU
asc. node	2045 Nov 15 06:02	25° M 19'14		inferior conj	2046 Oct 31 07:03	8° M 01'21	-0°37'55
min. Earth dist.	2045 Nov 15 09:54	25° M 06'18	0.67619 AU	minimum elong	2046 Oct 31 08:01	7° M 58'13	0°37'30
inferior conj	2045 Nov 16 02:54	24° M 09'05	0°17'55	asc. node	2046 Nov 02 03:05	5° M 43'20	
minimum elong	2045 Nov 16 02:28	24° M 10'33	0°17'44	morning rise	2046 Nov 05 22:40	2° M 05'04	
morning rise	2045 Nov 21 12:31	18° M 04'52		direct	2046 Nov 09 07:26	0° M 59'43	
direct	2045 Nov 25 08:54	16° M 40'16		morning max el	2046 Nov 16 10:37	5° M 00'27	19°21'29
morning max el	2045 Dec 03 06:07	21° M 12'10	20°23'55	greatest brilliancy	2046 Nov 30 05:48	23° M 39'05	-0.7m
	2045 Dec 10 12:57	0° Z			2046 Dec 04 09:30	0° Z	
desc. node	2045 Dec 23 12:32	18° Z 49'21		morning set	2046 Dec 10 08:10	9° Z 11'22	
	2045 Dec 30 20:07	0° Z		desc. node	2046 Dec 10 09:35	9° Z 16'54	
morning set	2045 Dec 31 08:15	0° Z 46'57			2046 Dec 23 15:40	0° Z	
max. Earth dist.	2046 Jan 10 04:12	16° Z 17'20	1.43474 AU	max. Earth dist.	2046 Dec 23 18:37	0° Z 11'38	1.44661 AU
superior conj	2046 Jan 16 08:02	26° Z 20'32	-2°00'24				

superior conj	2046 Dec 27 02:35	5°  28'51	-1°37'41		2047 Nov 27 07:57	0° 	
minimum elong	2046 Dec 26 18:04	4°  54'57	1°36'55				
evening rise	2047 Jan 10 10:51	28°  50'34		superior conj	2047 Dec 06 04:59	13°  58'36	-0°57'28
	2047 Jan 11 03:33	0° 		minimum elong	2047 Dec 05 21:49	13°  30'29	0°56'35
asc. node	2047 Jan 29 02:22	27°  28'37		max. Earth dist.	2047 Dec 06 12:48	14°  29'16	1.45142 AU
evening max el	2047 Jan 29 18:47	28°  11'49	18°25'22		2047 Dec 16 09:26	0° 	
	2047 Jan 31 19:34	0° 		evening rise	2047 Dec 22 02:41	9°  03'50	
retrograde	2047 Feb 05 07:01	1°  45'04		greatest brilliancy	2047 Dec 30 20:54	22°  58'26	-0.8m
evening set	2047 Feb 08 07:50	0° 			2048 Jan 04 09:54	0° 	
	2047 Feb 09 16:51	30° 		evening max el	2048 Jan 13 04:57	11°  38'56	18°59'47
inferior conj	2047 Feb 14 05:22	25°  25'18	3°40'56	asc. node	2048 Jan 15 23:24	14°  33'11	
minimum elong	2047 Feb 14 04:24	25°  28'05	3°40'53	retrograde	2048 Jan 20 01:47	15°  32'30	
min. Earth dist.	2047 Feb 16 10:36	22°  51'35	0.64229 AU	evening set	2048 Jan 23 08:45	14°  29'49	
morning rise	2047 Feb 20 00:22	19°  18'08		inferior conj	2048 Jan 28 23:50	8°  43'51	3°25'06
direct	2047 Feb 26 21:05	16°  28'53		minimum elong	2048 Jan 28 21:45	8°  50'24	3°24'46
desc. node	2047 Mar 08 08:45	20°  38'01		min. Earth dist.	2048 Jan 30 13:43	6°  44'57	0.65716 AU
morning max el	2047 Mar 12 11:53	24°  21'19	27°28'40	morning rise	2048 Feb 03 10:25	2°  32'26	
	2047 Mar 17 14:29	0° 			2048 Feb 07 18:21	30°  R 	
	2047 Apr 06 21:46	0° 		direct	2048 Feb 09 22:45	29°  41'43	
morning set	2047 Apr 16 14:34	17°  55'04			2048 Feb 12 05:34	0° 	
max. Earth dist.	2047 Apr 21 12:21	27°  51'24	1.33392 AU	morning max el	2048 Feb 22 21:50	7°  20'15	26°36'44
	2047 Apr 22 12:59	0° 		desc. node	2048 Feb 23 05:47	7°  40'25	
					2048 Mar 11 12:08	0° 	
superior conj	2047 Apr 24 14:17	4°  20'28	-0°25'47		2048 Mar 29 06:23	0° 	
minimum elong	2047 Apr 24 15:35	4°  27'19	0°25'31	morning set	2048 Mar 29 21:32	1°  Y11'27	
asc. node	2047 Apr 27 01:40	9°  37'55		max. Earth dist.	2048 Apr 03 02:49	9°  Y22'34	1.34649 AU
evening rise	2047 May 01 18:53	19°  41'55					
	2047 May 06 20:31	0° 		superior conj	2048 Apr 07 13:55	18°  Y25'29	-0°53'47
evening max el	2047 May 23 10:40	24°  II38'36	22°28'48	minimum elong	2048 Apr 07 16:39	18°  Y39'33	0°53'16
	2047 May 31 02:38	0° 		asc. node	2048 Apr 12 22:42	29°  Y37'58	
desc. node	2047 Jun 04 07:58	1°  50'43			2048 Apr 13 02:55	0° 	
retrograde	2047 Jun 05 12:05	1°  50'71		evening rise	2048 Apr 15 04:02	4°  816'01	
evening set	2047 Jun 08 13:28	0° 			2048 Apr 29 16:21	0° 	
	2047 Jun 11 03:05	30°  R  II		evening max el	2048 May 04 09:31	5°  II26'34	21°00'00
min. Earth dist.	2047 Jun 16 17:54	27°  II13'44	0.55230 AU	retrograde	2048 May 16 01:32	11°  II07'43	
inferior conj	2047 Jun 17 20:34	26°  II35'55	-3°36'56	evening set	2048 May 18 06:02	10°  II56'28	
minimum elong	2047 Jun 17 12:38	26°  II47'11	3°34'51	desc. node	2048 May 21 04:58	10°  II08'25	
morning rise	2047 Jun 26 13:55	22°  II44'16		inferior conj	2048 May 27 14:16	6°  II58'17	-1°50'42
direct	2047 Jun 29 12:35	22°  II24'31		minimum elong	2048 May 27 09:05	7°  II05'37	1°48'53
morning max el	2047 Jul 10 23:01	27°  II43'24	21°05'56	min. Earth dist.	2048 May 28 06:12	6°  II35'42	0.54915 AU
	2047 Jul 13 04:57	0° 		morning rise	2048 Jun 05 12:02	2°  II55'26	
asc. node	2047 Jul 24 00:56	16°  50'25		direct	2048 Jun 08 21:57	2°  II30'17	
morning set	2047 Jul 30 16:48	29°  50'73		morning max el	2048 Jun 21 20:35	8°  II41'32	22°41'42
	2047 Jul 31 02:57	0° 			2048 Jul 07 01:43	0° 	
				asc. node	2048 Jul 09 21:59	5°  50'24'00	
superior conj	2047 Aug 07 02:46	14°  Omega34'28	1°43'29	morning set	2048 Jul 14 03:23	13°  50'59'54	
minimum elong	2047 Aug 07 01:41	14°  Omega28'54	1°43'26				
max. Earth dist.	2047 Aug 11 11:25	23°  Omega24'17	1.35494 AU	superior conj	2048 Jul 21 06:35	29°  50'11'47	1°34'58
	2047 Aug 14 20:51	0° 		minimum elong	2048 Jul 21 04:34	29°  50'01'07	1°34'48
evening rise	2047 Aug 15 16:11	1°  Omega31'37			2048 Jul 21 15:40	0° 	
desc. node	2047 Aug 31 07:19	28°  Omega07'37		max. Earth dist.	2048 Jul 24 05:43	5°  Omega26'00	1.34064 AU
	2047 Sep 01 13:04	0° 		evening rise	2048 Jul 29 02:02	15°  Omega14'40	
evening max el	2047 Sep 20 04:03	23°  Omega31'51	26°30'52		2048 Aug 06 00:33	0° 	
	2047 Sep 29 07:04	0° 		desc. node	2048 Aug 17 04:19	17°  Omega55'30	
retrograde	2047 Oct 03 00:46	0°  Omega44'51			2048 Aug 26 05:13	0° 	
	2047 Oct 06 12:31	30°  R  Omega		evening max el	2048 Sep 01 16:05	7°  Omega00'05	27°12'02
evening set	2047 Oct 09 13:00	28°  Omega04'32		retrograde	2048 Sep 15 01:09	14°  Omega18'43	
min. Earth dist.	2047 Oct 13 15:14	23°  Omega49'29	0.66176 AU	evening set	2048 Sep 22 00:09	11°  Omega34'58	
inferior conj	2047 Oct 15 06:42	21°  Omega50'30	-1°36'02	min. Earth dist.	2048 Sep 25 19:49	7°  Omega55'52	0.64925 AU
minimum elong	2047 Oct 15 09:16	21°  Omega42'47	1°34'59	inferior conj	2048 Sep 27 23:41	5°  Omega32'12	-2°34'28
asc. node	2047 Oct 20 00:08	16°  Omega54'28		minimum elong	2048 Sep 28 03:47	5°  Omega20'49	2°32'58
morning rise	2047 Oct 21 06:05	16°  Omega04'56		morning rise	2048 Oct 04 08:20	0° 	
direct	2047 Oct 24 05:21	15°  Omega15'16			2048 Oct 04 08:36	30°  R 	
morning max el	2047 Oct 30 21:38	18°  Omega55'31	18°34'40	asc. node	2048 Oct 05 21:12	29°  Omega29'22	
	2047 Nov 08 08:22	0° 		direct	2048 Oct 07 00:30	29°  Omega22'27	
morning set	2047 Nov 20 06:56	18°  Omega48'26			2048 Oct 09 16:43	0° 	
desc. node	2047 Nov 27 06:37	29°  Omega54'45		morning max el	2048 Oct 13 12:39	2°  Omega51'27	18°04'29

morning set	2048 Oct 31 10:54	29° Ω 51'41		direct	2049 Sep 20 14:09	13° \mathbb{M} 16'28	
	2048 Oct 31 12:53	0° \mathbb{M}		asc. node	2049 Sep 22 18:15	13° \mathbb{M} 39'28	
desc. node	2048 Nov 13 03:38	20° \mathbb{M} 38'41		morning max el	2049 Sep 27 04:53	16° \mathbb{M} 42'15	17°51'50
					2049 Oct 06 15:25	0° Ω	
superior conj	2048 Nov 14 11:42	22° \mathbb{M} 46'50	-0°09'00	morning set	2049 Oct 13 16:06	12° Ω 08'28	
minimum elong	2048 Nov 14 10:35	22° \mathbb{M} 42'22	0°08'51		2049 Oct 24 01:37	0° \mathbb{M}	
behind sun begin	2048 Nov 14 01:32	22° \mathbb{M} 06'16					
behind sun end	2048 Nov 14 19:38	23° \mathbb{M} 18'27		superior conj	2049 Oct 25 16:33	2° \mathbb{M} 42'13	0°35'46
max. Earth dist.	2048 Nov 18 07:31	28° \mathbb{M} 50'57	1.44887 AU	minimum elong	2049 Oct 25 20:03	2° \mathbb{M} 56'44	0°35'18
	2048 Nov 19 01:03	0° \mathbb{A}		desc. node	2049 Oct 31 00:39	11° \mathbb{M} 25'57	
evening rise	2048 Nov 30 21:18	18° \mathbb{A} 27'19		max. Earth dist.	2049 Nov 01 00:23	13° \mathbb{M} 01'22	1.43937 AU
	2048 Dec 08 09:17	0° \mathbb{B}		evening rise	2049 Nov 10 05:46	27° \mathbb{M} 31'22	
greatest brilliancy	2048 Dec 14 10:35	9° \mathbb{B} 09'36	-0.7m		2049 Nov 11 20:25	0° \mathbb{A}	
evening max el	2048 Dec 26 10:58	25° \mathbb{B} 08'14	19°50'31		2049 Dec 02 07:52	0° \mathbb{B}	
asc. node	2049 Jan 01 20:27	29° \mathbb{B} 23'54		evening max el	2049 Dec 09 11:40	8° \mathbb{B} 38'57	20°54'58
retrograde	2049 Jan 02 23:14	29° \mathbb{B} 30'48		retrograde	2049 Dec 17 20:59	13° \mathbb{B} 36'53	
evening set	2049 Jan 06 13:48	28° \mathbb{B} 14'42		asc. node	2049 Dec 19 17:29	13° \mathbb{B} 17'43	
inferior conj	2049 Jan 12 00:51	22° \mathbb{B} 14'33	2°57'41	evening set	2049 Dec 21 21:03	12° \mathbb{B} 05'43	
minimum elong	2049 Jan 11 22:15	22° \mathbb{B} 23'09	2°57'03	inferior conj	2049 Dec 27 05:59	5° \mathbb{B} 54'21	2°21'19
min. Earth dist.	2049 Jan 13 00:34	20° \mathbb{B} 55'42	0.66801 AU	minimum elong	2049 Dec 27 03:26	6° \mathbb{B} 03'05	2°20'29
morning rise	2049 Jan 17 06:29	16° \mathbb{B} 01'22		min. Earth dist.	2049 Dec 27 17:03	5° \mathbb{B} 16'20	0.67494 AU
direct	2049 Jan 23 06:19	13° \mathbb{B} 21'00		morning rise	2050 Jan 01 09:38	29° \mathbb{A} 41'17	
morning max el	2049 Feb 04 06:45	20° \mathbb{B} 30'58	25°22'38		2050 Jan 01 01:30	30° \mathbb{R} \mathbb{A}	
desc. node	2049 Feb 09 02:49	25° \mathbb{B} 51'56		direct	2050 Jan 06 18:52	27° \mathbb{A} 19'20	
	2049 Feb 12 10:55	0° \approx			2050 Jan 13 08:19	0° \mathbb{B}	
	2049 Mar 04 16:17	0° \mathbb{H}		morning max el	2050 Jan 17 15:05	3° \mathbb{B} 47'10	23°56'32
morning set	2049 Mar 12 12:35	13° \mathbb{H} 36'36		desc. node	2050 Jan 26 23:52	14° \mathbb{B} 52'48	
max. Earth dist.	2049 Mar 16 05:27	20° \mathbb{H} 26'23	1.36352 AU		2050 Feb 06 17:00	0° \approx	
	2049 Mar 21 04:32	0° \mathbb{Y}		morning set	2050 Feb 22 05:45	24° \approx 54'05	
					2050 Feb 25 04:00	0° \mathbb{H}	
superior conj	2049 Mar 22 04:45	1° \mathbb{Y} 59'50	-1°20'35	max. Earth dist.	2050 Feb 26 01:00	1° \mathbb{H} 32'59	1.38396 AU
minimum elong	2049 Mar 22 08:40	2° \mathbb{Y} 19'15	1°19'59				
evening rise	2049 Mar 30 08:47	18° \mathbb{Y} 31'21		superior conj	2050 Mar 05 07:13	14° \mathbb{H} 54'11	-1°43'49
asc. node	2049 Mar 30 19:44	19° \mathbb{Y} 26'41		minimum elong	2050 Mar 05 11:30	15° \mathbb{H} 14'29	1°43'22
	2049 Apr 05 05:43	0° \mathbb{B}			2050 Mar 13 01:52	0° \mathbb{Y}	
evening max el	2049 Apr 16 20:09	16° \mathbb{B} 52'20	19°47'17	evening rise	2050 Mar 14 06:36	2° \mathbb{Y} 20'58	
retrograde	2049 Apr 26 18:20	21° \mathbb{B} 39'51		asc. node	2050 Mar 17 16:47	8° \mathbb{Y} 59'05	
evening set	2049 Apr 28 18:52	21° \mathbb{B} 28'48		evening max el	2050 Mar 30 17:47	28° \mathbb{Y} 57'22	18°54'01
inferior conj	2049 May 07 14:01	17° \mathbb{B} 27'17	0°08'40		2050 Mar 31 21:30	0° \mathbb{B}	
minimum elong	2049 May 07 14:24	17° \mathbb{B} 26'41	0°08'32	retrograde	2050 Apr 08 02:28	3° \mathbb{B} 01'09	
transit middle	2049 May 07 14:24	17° \mathbb{B} 26'41	0°08'32	evening set	2050 Apr 10 07:33	2° \mathbb{B} 45'15	
transit begin	2049 May 07 11:04	17° \mathbb{B} 31'51			2050 Apr 16 02:13	30° \mathbb{R} \mathbb{Y}	
transit end	2049 May 07 17:45	17° \mathbb{B} 21'30		inferior conj	2050 Apr 18 07:21	28° \mathbb{Y} 27'53	1°49'14
desc. node	2049 May 08 01:58	17° \mathbb{B} 08'45		minimum elong	2050 Apr 18 11:02	28° \mathbb{Y} 21'17	1°48'05
min. Earth dist.	2049 May 09 20:07	16° \mathbb{B} 03'52	0.55570 AU	min. Earth dist.	2050 Apr 21 12:10	26° \mathbb{Y} 11'27	0.57049 AU
morning rise	2049 May 16 07:33	12° \mathbb{B} 55'58		desc. node	2050 Apr 24 23:01	24° \mathbb{Y} 05'08	
direct	2049 May 20 13:57	12° \mathbb{B} 15'34		morning rise	2050 Apr 26 11:25	23° \mathbb{Y} 22'28	
morning max el	2049 Jun 03 11:44	19° \mathbb{B} 12'00	24°23'52	direct	2050 May 01 19:10	22° \mathbb{Y} 14'32	
	2049 Jun 12 12:53	0° \mathbb{I}		morning max el	2050 May 16 02:36	29° \mathbb{Y} 41'00	25°57'56
asc. node	2049 Jun 26 19:01	25° \mathbb{I} 05'47			2050 May 16 10:24	0° \mathbb{B}	
morning set	2049 Jun 28 15:12	28° \mathbb{I} 56'07			2050 Jun 06 04:18	0° \mathbb{I}	
	2049 Jun 29 03:16	0° \mathbb{E}		morning set	2050 Jun 13 02:34	13° \mathbb{I} 50'18	
				asc. node	2050 Jun 13 16:03	15° \mathbb{I} 01'38	
superior conj	2049 Jul 05 15:04	14° \mathbb{E} 02'35	1°21'14				
minimum elong	2049 Jul 05 12:40	13° \mathbb{E} 49'36	1°20'55	superior conj	2050 Jun 20 02:06	28° \mathbb{I} 59'14	1°03'09
max. Earth dist.	2049 Jul 07 08:58	17° \mathbb{E} 49'07	1.33040 AU	minimum elong	2050 Jun 19 23:49	28° \mathbb{I} 46'44	1°02'46
evening rise	2049 Jul 12 22:29	29° \mathbb{E} 29'03			2050 Jun 20 13:10	0° \mathbb{E}	
	2049 Jul 13 04:35	0° \mathbb{Q}		max. Earth dist.	2050 Jun 20 18:34	0° \mathbb{E} 29'39	1.32417 AU
	2049 Jul 30 02:29	0° \mathbb{M}		evening rise	2050 Jun 27 02:14	14° \mathbb{E} 04'00	
desc. node	2049 Aug 04 01:18	7° \mathbb{M} 09'19			2050 Jul 05 05:52	0° \mathbb{Q}	
evening max el	2049 Aug 15 02:45	20° \mathbb{M} 07'13	27°26'05	desc. node	2050 Jul 21 22:20	25° \mathbb{Q} 34'09	
retrograde	2049 Aug 28 19:21	27° \mathbb{M} 24'47			2050 Jul 25 18:35	0° \mathbb{M}	
evening set	2049 Sep 05 00:02	24° \mathbb{M} 48'24		evening max el	2050 Jul 28 09:25	2° \mathbb{M} 38'41	27°08'00
min. Earth dist.	2049 Sep 08 15:05	21° \mathbb{M} 41'34	0.63327 AU	retrograde	2050 Aug 11 06:22	9° \mathbb{M} 52'45	
inferior conj	2049 Sep 11 07:24	19° \mathbb{M} 01'03	-3°30'11	evening set	2050 Aug 18 08:29	7° \mathbb{M} 36'31	
minimum elong	2049 Sep 11 12:36	18° \mathbb{M} 48'02	3°28'38	min. Earth dist.	2050 Aug 21 23:40	4° \mathbb{M} 52'55	0.61437 AU
morning rise	2049 Sep 18 02:26	13° \mathbb{M} 46'04		inferior conj	2050 Aug 25 02:36	2° \mathbb{M} 07'51	-4°18'24

minimum elong	2050 Aug 25 07:44	1° \cap 56'28	4°17'21	morning rise	2051 Aug 14 22:39	10° Ω 11'32	
	2050 Aug 27 14:51	30° κ Ω		direct	2051 Aug 17 09:41	9° Ω 50'28	
morning rise	2050 Sep 01 08:38	27° Ω 13'14		morning max el	2051 Aug 25 04:41	13° Ω 35'36	18°23'25
direct	2050 Sep 03 18:42	26° Ω 48'57		asc. node	2051 Aug 27 12:20	16° Ω 06'30	
asc. node	2050 Sep 09 15:17	29° Ω 16'31			2051 Sep 05 09:02	0° \cap	
	2050 Sep 10 11:02	0° \cap		morning set	2051 Sep 10 05:23	9° \cap 06'53	
morning max el	2050 Sep 10 19:15	0° \cap 19'38	17°57'45				
morning set	2050 Sep 26 16:03	25° \cap 18'36		superior conj	2051 Sep 19 08:14	26° \cap 22'07	1°32'00
	2050 Sep 29 05:31	0° $\underline{\Omega}$		minimum elong	2051 Sep 19 11:34	26° \cap 37'25	1°31'43
					2051 Sep 21 07:58	0° $\underline{\Omega}$	
superior conj	2050 Oct 07 00:32	13° $\underline{\Omega}$ 57'10	1°09'54	max. Earth dist.	2051 Sep 26 20:13	9° $\underline{\Omega}$ 43'57	1.40476 AU
minimum elong	2050 Oct 07 05:03	14° $\underline{\Omega}$ 16'56	1°09'23	evening rise	2051 Oct 01 07:51	17° $\underline{\Omega}$ 18'02	
max. Earth dist.	2050 Oct 14 13:05	26° $\underline{\Omega}$ 43'46	1.42402 AU	desc. node	2051 Oct 04 18:42	22° $\underline{\Omega}$ 55'30	
	2050 Oct 16 12:56	0° \cap			2051 Oct 09 06:29	0° \cap	
desc. node	2050 Oct 17 21:41	2° \cap 12'41			2051 Oct 30 17:19	0° \nearrow	
evening rise	2050 Oct 20 20:52	6° \cap 57'06		evening max el	2051 Nov 04 21:31	5° \nearrow 44'29	23°29'10
	2050 Nov 05 02:44	0° \nearrow		retrograde	2051 Nov 15 10:50	11° \nearrow 59'03	
evening max el	2050 Nov 22 06:51	22° \nearrow 10'42	22°09'30	evening set	2051 Nov 20 11:12	9° \nearrow 54'21	
retrograde	2050 Dec 01 17:19	27° \nearrow 47'27		asc. node	2051 Nov 23 11:35	6° \nearrow 40'52	
evening set	2050 Dec 06 04:44	25° \nearrow 59'49		inferior conj	2051 Nov 25 20:32	3° \nearrow 30'53	0°48'26
asc. node	2050 Dec 06 14:32	25° \nearrow 39'00		minimum elong	2051 Nov 25 19:25	3° \nearrow 34'43	0°47'59
inferior conj	2050 Dec 11 13:09	19° \nearrow 40'31	1°37'46	min. Earth dist.	2051 Nov 25 09:29	4° \nearrow 08'42	0.67783 AU
minimum elong	2050 Dec 11 11:07	19° \nearrow 47'32	1°36'59		2051 Nov 28 13:04	30° κ \cap	
min. Earth dist.	2050 Dec 11 12:48	19° \nearrow 41'44	0.67813 AU	morning rise	2051 Dec 01 03:35	27° \cap 23'34	
morning rise	2050 Dec 16 17:23	13° \nearrow 29'22		direct	2051 Dec 05 07:25	25° \cap 46'51	
direct	2050 Dec 21 11:32	11° \nearrow 29'48			2051 Dec 13 01:19	0° \nearrow	
morning max el	2050 Dec 31 01:46	17° \nearrow 09'37	22°28'22	morning max el	2051 Dec 13 18:13	0° \nearrow 41'28	21°06'12
	2051 Jan 10 15:14	0° \searrow		desc. node	2051 Dec 31 17:59	24° \searrow 30'06	
desc. node	2051 Jan 13 20:56	4° \searrow 28'53			2052 Jan 04 10:23	0° \searrow	
	2051 Jan 30 19:24	0° \approx		morning set	2052 Jan 13 04:48	13° \searrow 28'31	
morning set	2051 Feb 02 19:14	4° \approx 49'59		max. Earth dist.	2052 Jan 21 00:23	25° \searrow 58'46	1.42521 AU
max. Earth dist.	2051 Feb 07 21:37	13° \approx 18'58	1.40548 AU		2052 Jan 23 11:01	0° \approx	
superior conj	2051 Feb 15 16:45	26° \approx 56'52	-2°00'04	superior conj	2052 Jan 28 03:59	7° \approx 54'54	-2°04'51
minimum elong	2051 Feb 15 19:43	27° \approx 10'15	1°59'56	minimum elong	2052 Jan 28 03:08	7° \approx 51'15	2°04'51
	2051 Feb 17 09:10	0° H		evening rise	2052 Feb 08 16:08	28° \approx 10'29	
evening rise	2051 Feb 25 18:20	15° H 37'06			2052 Feb 09 16:29	0° H	
asc. node	2051 Mar 04 13:50	28° H 09'13		asc. node	2052 Feb 19 10:53	16° H 49'10	
	2051 Mar 05 15:29	0° Υ		evening max el	2052 Feb 25 10:15	24° H 34'56	18°07'37
evening max el	2051 Mar 13 23:35	11° Υ 34'46	18°20'54	retrograde	2052 Mar 03 01:52	27° H 59'28	
retrograde	2051 Mar 21 05:56	15° Υ 11'04		evening set	2052 Mar 05 18:18	27° H 26'14	
evening set	2051 Mar 23 16:57	14° Υ 47'21		inferior conj	2052 Mar 12 08:15	22° H 27'45	3°32'27
inferior conj	2051 Mar 30 22:05	10° Υ 09'34	2°56'40	minimum elong	2052 Mar 12 10:11	22° H 23'06	3°32'15
minimum elong	2051 Mar 31 01:45	10° Υ 01'53	2°55'53	min. Earth dist.	2052 Mar 15 11:57	19° H 25'44	0.61180 AU
min. Earth dist.	2051 Apr 03 08:33	7° Υ 18'09	0.59033 AU	morning rise	2052 Mar 19 00:19	16° H 34'55	
morning rise	2051 Apr 07 07:56	4° Υ 35'29		direct	2052 Mar 25 19:24	14° H 16'28	
desc. node	2051 Apr 11 20:04	2° Υ 59'42		desc. node	2052 Mar 28 17:08	14° H 40'02	
direct	2051 Apr 13 13:37	2° Υ 51'43		morning max el	2052 Apr 09 00:28	22° H 10'45	27°45'28
morning max el	2051 Apr 27 22:22	10° Υ 36'08	27°08'40		2052 Apr 15 21:43	0° Υ	
	2051 May 12 22:14	0° B			2052 May 05 00:01	0° B	
morning set	2051 May 28 11:53	28° B 37'11		morning set	2052 May 11 17:13	13° B 09'31	
	2051 May 29 03:40	0° Π		asc. node	2052 May 17 10:09	25° B 15'33	
asc. node	2051 May 31 13:06	5° Π 06'38		max. Earth dist.	2052 May 17 17:58	25° B 57'59	1.32325 AU
superior conj	2051 Jun 04 13:55	13° Π 55'55	0°41'30	superior conj	2052 May 19 00:45	28° B 46'04	0°16'56
minimum elong	2051 Jun 04 12:12	13° Π 46'28	0°41'09	minimum elong	2052 May 18 23:59	28° B 41'50	0°16'45
max. Earth dist.	2051 Jun 04 06:56	13° Π 17'28	1.32181 AU		2052 May 19 14:16	0° Π	
evening rise	2051 Jun 11 10:47	28° Π 51'25		evening rise	2052 May 25 21:54	13° Π 43'15	
	2051 Jun 11 23:49	0° D			2052 Jun 03 02:25	0° D	
	2051 Jun 28 15:38	0° Ω		evening max el	2052 Jun 21 02:18	25° D 23'52	24°58'07
desc. node	2051 Jul 08 19:21	12° Ω 49'41		desc. node	2052 Jun 24 16:22	28° D 27'45	
evening max el	2051 Jul 10 09:24	14° Ω 24'07	26°16'50		2052 Jun 26 23:09	0° Ω	
retrograde	2051 Jul 24 09:02	21° Ω 35'20		retrograde	2052 Jul 05 01:45	2° Ω 29'35	
evening set	2051 Jul 30 20:50	19° Ω 51'28		evening set	2052 Jul 10 09:36	1° Ω 24'42	
min. Earth dist.	2051 Aug 03 22:15	17° Ω 15'32	0.59381 AU		2052 Jul 13 07:37	30° κ D	
inferior conj	2051 Aug 07 05:43	14° Ω 43'15	-4°51'11	min. Earth dist.	2052 Jul 15 13:48	28° D 37'41	0.57395 AU
minimum elong	2051 Aug 07 08:41	14° Ω 37'31	4°50'55	inferior conj	2052 Jul 18 13:34	26° D 38'09	-4°56'29

minimum elong	2052 Jul 18 11:51	26° ☿ 41'02	4°56'24	desc. node	2053 Jun 11 13:23	11° ☿ 53'15	
morning rise	2052 Jul 26 16:47	22° ☿ 28'29		retrograde	2053 Jun 16 06:05	12° ☿ 43'21	
direct	2052 Jul 29 06:48	22° ☿ 09'12		evening set	2053 Jun 20 01:56	12° ☿ 11'14	
morning max el	2052 Aug 07 06:02	26° ☿ 20'59	19°10'01	min. Earth dist.	2053 Jun 27 02:06	8° ☿ 58'29	0.55818 AU
	2052 Aug 10 13:36	0° Ω		inferior conj	2053 Jun 29 01:28	7° ☿ 48'20	-4°20'04
asc. node	2052 Aug 13 09:23	3° Ω 54'27		minimum elong	2053 Jun 28 18:43	7° ☿ 58'23	4°18'48
morning set	2052 Aug 24 04:04	23° Ω 22'44		morning rise	2053 Jul 07 14:03	3° ☿ 53'35	
	2052 Aug 27 11:54	0° ☿		direct	2053 Jul 10 08:48	3° ☿ 34'37	
				morning max el	2053 Jul 20 20:42	8° ☿ 26'23	20°17'53
superior conj	2052 Sep 01 10:04	9° ☿ 41'09	1°43'16	asc. node	2053 Jul 31 06:26	22° ☿ 26'55	
minimum elong	2052 Sep 01 11:30	9° ☿ 48'06	1°43'12		2053 Aug 04 09:14	0° Ω	
max. Earth dist.	2052 Sep 07 23:45	22° ☿ 01'02	1.38416 AU	morning set	2053 Aug 08 09:08	7° Ω 57'45	
evening rise	2052 Sep 11 18:59	28° ☿ 46'33					
	2052 Sep 12 11:54	0° ☿		superior conj	2053 Aug 16 00:54	23° Ω 39'15	1°45'32
desc. node	2052 Sep 20 15:43	13° ☿ 30'31		minimum elong	2053 Aug 16 00:37	23° Ω 37'46	1°45'32
	2052 Oct 01 16:14	0° ☿			2053 Aug 19 05:19	0° ☿	
evening max el	2052 Oct 17 09:50	19° ☿ 22'10	24°47'40	max. Earth dist.	2053 Aug 21 05:28	3° ☿ 53'50	1.36479 AU
retrograde	2052 Oct 29 00:30	26° ☿ 07'47		evening rise	2053 Aug 25 03:50	11° ☿ 16'50	
evening set	2052 Nov 03 14:50	23° ☿ 46'52			2053 Sep 05 01:44	0° ☿	
min. Earth dist.	2052 Nov 08 04:47	18° ☿ 35'01	0.67420 AU	desc. node	2053 Sep 07 12:42	3° ☿ 52'27	
inferior conj	2052 Nov 09 02:22	17° ☿ 23'30	-0°05'23		2053 Sep 26 23:18	0° ☿	
minimum elong	2052 Nov 09 02:30	17° ☿ 23'03	0°05'19	evening max el	2053 Sep 29 21:50	3° ☿ 02'00	25°57'41
transit middle	2052 Nov 09 02:30	17° ☿ 23'03	0°05'19	retrograde	2053 Oct 12 09:18	10° ☿ 07'52	
transit begin	2052 Nov 08 23:54	17° ☿ 31'42		evening set	2053 Oct 18 13:46	7° ☿ 33'29	
transit end	2052 Nov 09 05:07	17° ☿ 14'26		min. Earth dist.	2053 Oct 22 20:14	2° ☿ 57'09	0.66726 AU
asc. node	2052 Nov 09 08:37	17° ☿ 02'50		inferior conj	2053 Oct 24 04:51	1° ☿ 14'46	-1°02'23
morning rise	2052 Nov 14 14:18	11° ☿ 22'17		minimum elong	2053 Oct 24 06:28	1° ☿ 09'38	1°01'41
direct	2052 Nov 18 05:25	10° ☿ 06'26			2053 Oct 25 04:53	30° ☿	
morning max el	2052 Nov 25 18:18	14° ☿ 24'14	19°55'35	asc. node	2053 Oct 27 05:39	27° ☿ 40'25	
	2052 Dec 07 18:08	0° ☿		morning rise	2053 Oct 29 23:32	25° ☿ 22'23	
desc. node	2052 Dec 17 15:01	14° ☿ 49'39		direct	2053 Nov 02 03:57	24° ☿ 24'09	
morning set	2052 Dec 22 00:52	21° ☿ 36'21		morning max el	2053 Nov 09 01:43	28° ☿ 15'16	18°59'34
	2052 Dec 27 10:28	0° ☿			2053 Nov 10 16:32	0° ☿	
max. Earth dist.	2053 Jan 02 10:28	9° ☿ 28'17	1.44053 AU	morning set	2053 Dec 01 08:33	0° ☿ 26'06	
					2053 Dec 01 01:53	0° ☿	
superior conj	2053 Jan 07 13:08	17° ☿ 34'48	-1°53'10	desc. node	2053 Dec 04 12:01	5° ☿ 21'37	
minimum elong	2053 Jan 07 06:48	17° ☿ 16'06	1°52'46	max. Earth dist.	2053 Dec 16 02:30	23° ☿ 33'19	1.44956 AU
	2053 Jan 14 23:51	0° ☿					
evening rise	2053 Jan 20 19:40	9° ☿ 53'07		superior conj	2053 Dec 17 22:50	26° ☿ 27'57	-1°22'25
	2053 Feb 01 21:31	0° ☿		minimum elong	2053 Dec 17 14:01	25° ☿ 53'11	1°21'29
asc. node	2053 Feb 05 07:55	4° ☿ 49'55			2053 Dec 20 04:30	0° ☿	
evening max el	2053 Feb 07 22:50	7° ☿ 50'34	18°13'32	evening rise	2054 Jan 02 00:55	20° ☿ 38'19	
retrograde	2053 Feb 14 09:46	11° ☿ 17'01			2054 Jan 07 18:39	0° ☿	
evening set	2053 Feb 17 07:25	10° ☿ 33'06		evening max el	2054 Jan 22 10:37	21° ☿ 14'58	18°37'57
inferior conj	2053 Feb 23 10:00	5° ☿ 14'55	3°43'19	asc. node	2054 Jan 23 04:57	21° ☿ 59'42	
minimum elong	2053 Feb 23 09:58	5° ☿ 15'00	3°43'19	retrograde	2054 Jan 29 01:30	24° ☿ 55'16	
min. Earth dist.	2053 Feb 26 00:17	2° ☿ 25'33	0.63206 AU	evening set	2054 Feb 01 04:50	23° ☿ 59'39	
	2053 Feb 28 12:07	30° ☿		inferior conj	2054 Feb 06 23:19	18° ☿ 23'19	3°35'49
morning rise	2053 Mar 01 11:33	29° ☿ 11'31		minimum elong	2054 Feb 06 21:48	18° ☿ 27'52	3°35'39
direct	2053 Mar 08 10:16	26° ☿ 29'01		min. Earth dist.	2054 Feb 08 22:01	16° ☿ 03'18	0.64916 AU
desc. node	2053 Mar 15 14:12	28° ☿ 52'35		morning rise	2054 Feb 12 14:19	12° ☿ 14'12	
	2053 Mar 17 05:57	0° ☿		direct	2054 Feb 19 08:19	9° ☿ 22'28	
morning max el	2053 Mar 22 07:30	4° ☿ 25'00	27°44'48	desc. node	2054 Mar 02 11:14	15° ☿ 02'23	
	2053 Apr 10 12:47	0° ☿		morning max el	2054 Mar 04 16:55	17° ☿ 10'15	27°09'48
morning set	2053 Apr 25 16:18	27° ☿ 19'50			2054 Mar 15 09:53	0° ☿	
	2053 Apr 26 24:00	0° ☿			2054 Apr 03 09:06	0° ☿	
max. Earth dist.	2053 Apr 30 23:43	8° ☿ 18'10	1.32877 AU	morning set	2054 Apr 09 06:14	10° ☿ 59'14	
				max. Earth dist.	2054 Apr 13 20:33	20° ☿ 08'18	1.33871 AU
superior conj	2053 May 03 08:53	13° ☿ 23'51	-0°09'48				
minimum elong	2053 May 03 09:21	13° ☿ 26'25	0°09'42	superior conj	2054 Apr 17 12:19	27° ☿ 43'20	-0°37'41
behind sun begin	2053 May 03 05:09	13° ☿ 03'47		minimum elong	2054 Apr 17 14:13	27° ☿ 53'20	0°37'17
behind sun end	2053 May 03 13:33	13° ☿ 49'05			2054 Apr 18 14:14	0° ☿	
asc. node	2053 May 04 07:12	15° ☿ 24'17		asc. node	2054 Apr 21 04:14	5° ☿ 29'02	
evening rise	2053 May 10 09:43	28° ☿ 33'12		evening rise	2054 Apr 24 20:26	13° ☿ 15'24	
	2053 May 11 02:11	0° ☿			2054 May 03 10:25	0° ☿	
	2053 May 28 09:40	0° ☿		evening max el	2054 May 15 09:50	16° ☿ 30'52	21°49'32
evening max el	2053 Jun 02 16:03	5° ☿ 55'58	23°23'58	retrograde	2054 May 27 22:31	22° ☿ 40'21	

desc. node	2054 May 29 10:25	22° Π 35'17		retrograde	2055 May 08 11:41	2° Π 51'41	
evening set	2054 May 30 12:54	22° Π 25'14		evening set	2055 May 10 13:05	2° Π 41'10	
inferior conj	2054 Jun 08 22:35	18° Π 22'08	-2°55'47	desc. node	2055 May 16 07:27	0° Π 36'49	
minimum elong	2054 Jun 08 15:07	18° Π 32'35	2°53'28		2055 May 17 11:10	30° \mathbb{R} 8	
min. Earth dist.	2054 Jun 08 13:49	18° Π 34'24	0.54981 AU	inferior conj	2055 May 19 17:03	28° \mathbb{R} 43'14	-0°59'33
morning rise	2054 Jun 17 18:33	14° Π 28'05		minimum elong	2055 May 19 14:14	28° \mathbb{R} 47'20	0°58'31
direct	2054 Jun 20 21:18	14° Π 06'41		min. Earth dist.	2055 May 21 02:24	27° \mathbb{R} 54'47	0.55082 AU
morning max el	2054 Jul 02 23:53	19° Π 47'52	21°45'03	morning rise	2055 May 28 14:19	24° \mathbb{R} 30'22	
	2054 Jul 11 08:35	0° \mathbb{E}		direct	2055 Jun 01 07:58	24° \mathbb{R} 00'16	
asc. node	2054 Jul 18 03:28	11° \mathbb{E} 33'20			2055 Jun 14 04:24	0° Π	
morning set	2054 Jul 23 18:19	22° \mathbb{E} 46'11		morning max el	2055 Jun 14 18:00	0° Π 31'23	23°25'09
	2054 Jul 27 04:50	0° \mathbb{N}			2055 Jul 04 11:40	0° \mathbb{E}	
				asc. node	2055 Jul 05 00:31	1° \mathbb{E} 04'06	
superior conj	2054 Jul 31 00:55	8° \mathbb{N} 05'25	1°40'34	morning set	2055 Jul 08 05:39	7° \mathbb{E} 41'04	
minimum elong	2054 Jul 30 23:23	7° \mathbb{N} 57'21	1°40'29				
max. Earth dist.	2054 Aug 03 18:51	15° \mathbb{N} 48'55	1.34843 AU	superior conj	2055 Jul 15 07:01	22° \mathbb{E} 49'19	1°29'44
evening rise	2054 Aug 08 05:56	24° \mathbb{N} 37'30		minimum elong	2055 Jul 15 04:47	22° \mathbb{E} 37'19	1°29'29
	2054 Aug 11 02:23	0° \mathbb{N}		max. Earth dist.	2055 Jul 17 17:25	28° \mathbb{E} 00'29	1.33584 AU
desc. node	2054 Aug 25 09:43	23° \mathbb{N} 55'23			2055 Jul 18 16:08	0° \mathbb{N}	
	2054 Aug 29 14:13	0° \mathbb{E}		evening rise	2055 Jul 22 20:44	8° \mathbb{N} 34'59	
evening max el	2054 Sep 12 10:14	16° \mathbb{E} 38'01	26°51'21		2055 Aug 03 13:17	0° \mathbb{N}	
retrograde	2054 Sep 25 12:41	23° \mathbb{E} 53'35		desc. node	2055 Aug 12 06:45	13° \mathbb{N} 30'16	
evening set	2054 Oct 02 05:57	21° \mathbb{E} 11'01			2055 Aug 25 22:33	0° \mathbb{E}	
min. Earth dist.	2054 Oct 06 05:25	17° \mathbb{E} 11'16	0.65691 AU	evening max el	2055 Aug 25 21:57	29° \mathbb{N} 58'35	27°21'34
inferior conj	2054 Oct 08 01:57	15° \mathbb{E} 01'26	-2°00'55	retrograde	2055 Sep 08 10:17	7° \mathbb{E} 16'42	
minimum elong	2054 Oct 08 05:12	14° \mathbb{E} 51'59	1°59'38	evening set	2055 Sep 15 12:43	4° \mathbb{E} 34'28	
morning rise	2054 Oct 14 05:05	9° \mathbb{E} 21'04		min. Earth dist.	2055 Sep 19 06:03	1° \mathbb{E} 10'05	0.64293 AU
asc. node	2054 Oct 14 02:41	9° \mathbb{E} 24'13			2055 Sep 20 08:41	30° \mathbb{R} 8	
direct	2054 Oct 17 01:08	8° \mathbb{E} 36'43		inferior conj	2055 Sep 21 15:20	28° \mathbb{N} 38'06	-2°58'38
morning max el	2054 Oct 23 14:40	12° \mathbb{E} 10'54	18°19'42	minimum elong	2055 Sep 21 19:59	28° \mathbb{N} 25'43	2°57'04
	2054 Nov 05 05:43	0° \mathbb{N}		morning rise	2055 Sep 28 04:18	23° \mathbb{N} 13'08	
morning set	2054 Nov 11 19:48	10° \mathbb{N} 40'24		direct	2055 Sep 30 18:21	22° \mathbb{N} 39'06	
desc. node	2054 Nov 21 09:01	26° \mathbb{N} 02'08		asc. node	2055 Sep 30 23:44	22° \mathbb{N} 39'22	
	2054 Nov 23 20:57	0° \mathbb{X}		morning max el	2055 Oct 07 06:35	26° \mathbb{N} 05'21	17°56'57
superior conj	2054 Nov 27 00:12	4° \mathbb{X} 57'08	-0°37'09		2055 Oct 10 14:27	0° \mathbb{E}	
minimum elong	2054 Nov 26 19:24	4° \mathbb{X} 38'13	0°36'31	morning set	2055 Oct 24 11:15	22° \mathbb{E} 17'10	
max. Earth dist.	2054 Nov 28 21:38	7° \mathbb{X} 55'52	1.45130 AU		2055 Oct 29 00:43	0° \mathbb{N}	
	2054 Dec 12 23:47	0° \mathbb{Z}		superior conj	2055 Nov 06 14:52	14° \mathbb{N} 09'50	0°11'02
evening rise	2054 Dec 13 06:56	0° \mathbb{Z} 28'01		minimum elong	2055 Nov 06 16:08	14° \mathbb{N} 14'57	0°10'52
greatest brilliancy	2054 Dec 24 07:06	17° \mathbb{Z} 37'41	-0.8m	behind sun begin	2055 Nov 06 08:29	13° \mathbb{N} 43'59	
	2055 Jan 01 19:36	0° \mathbb{Z}		behind sun end	2055 Nov 06 23:47	14° \mathbb{N} 45'53	
evening max el	2055 Jan 05 19:15	4° \mathbb{Z} 43'15	19°19'32	desc. node	2055 Nov 08 06:03	16° \mathbb{N} 47'49	
asc. node	2055 Jan 10 01:59	8° \mathbb{Z} 04'36		max. Earth dist.	2055 Nov 11 16:22	22° \mathbb{N} 16'24	1.44563 AU
retrograde	2055 Jan 12 21:41	8° \mathbb{Z} 47'49			2055 Nov 16 14:10	0° \mathbb{X}	
evening set	2055 Jan 16 07:47	7° \mathbb{Z} 39'23		evening rise	2055 Nov 22 19:26	9° \mathbb{X} 38'43	
inferior conj	2055 Jan 21 20:53	1° \mathbb{Z} 47'01	3°14'42		2055 Dec 06 05:56	0° \mathbb{Z}	
minimum elong	2055 Jan 21 18:31	1° \mathbb{Z} 54'39	3°14'14	evening max el	2055 Dec 19 23:03	18° \mathbb{Z} 12'56	20°16'25
min. Earth dist.	2055 Jan 23 04:29	0° \mathbb{Z} 05'07	0.66230 AU	retrograde	2055 Dec 27 19:37	22° \mathbb{Z} 50'05	
	2055 Jan 23 06:05	30° \mathbb{R} 3		asc. node	2055 Dec 27 23:01	22° \mathbb{Z} 49'59	
morning rise	2055 Jan 27 05:00	25° \mathbb{Z} 34'52		evening set	2055 Dec 31 14:02	21° \mathbb{Z} 27'36	
direct	2055 Feb 02 12:25	22° \mathbb{Z} 47'31		inferior conj	2056 Jan 05 23:55	15° \mathbb{Z} 22'03	2°43'14
	2055 Feb 14 20:32	0° \mathbb{Z}		minimum elong	2056 Jan 05 21:18	15° \mathbb{Z} 30'56	2°42'30
morning max el	2055 Feb 15 02:27	0° \mathbb{Z} 14'50	26°07'24	min. Earth dist.	2056 Jan 06 18:00	14° \mathbb{Z} 20'56	0.67137 AU
desc. node	2055 Feb 17 08:16	2° \mathbb{Z} 36'46		morning rise	2056 Jan 11 04:23	9° \mathbb{Z} 08'41	
	2055 Mar 09 08:34	0° \mathbb{X}		direct	2056 Jan 16 22:01	6° \mathbb{Z} 35'45	
morning set	2055 Mar 23 07:03	23° \mathbb{X} 55'25		morning max el	2056 Jan 28 11:10	13° \mathbb{Z} 29'11	24°47'01
	2055 Mar 26 12:07	0° \mathbb{Y}		desc. node	2056 Feb 04 05:17	21° \mathbb{Z} 11'20	
max. Earth dist.	2055 Mar 27 06:05	1° \mathbb{Y} 26'52	1.35325 AU		2056 Feb 10 20:46	0° \mathbb{Z}	
					2056 Mar 01 04:13	0° \mathbb{X}	
superior conj	2055 Apr 01 08:36	11° \mathbb{Y} 36'26	-1°05'24	morning set	2056 Mar 04 13:38	5° \mathbb{X} 54'10	
minimum elong	2055 Apr 01 11:53	11° \mathbb{Y} 53'07	1°04'50	max. Earth dist.	2056 Mar 08 05:20	12° \mathbb{X} 29'32	1.37189 AU
asc. node	2055 Apr 08 01:17	25° \mathbb{Y} 24'59					
evening rise	2055 Apr 09 04:01	27° \mathbb{Y} 42'41		superior conj	2056 Mar 14 18:41	24° \mathbb{X} 55'03	-1°31'02
	2055 Apr 10 06:54	0° \mathbb{X}		minimum elong	2056 Mar 14 22:53	25° \mathbb{X} 15'35	1°30'28
evening max el	2055 Apr 27 13:31	27° \mathbb{X} 33'35	20°26'46		2056 Mar 17 08:38	0° \mathbb{Y}	
	2055 Apr 30 10:53	0° \mathbb{I}		evening rise	2056 Mar 23 06:13	11° \mathbb{Y} 48'25	

asc. node	2056 Mar 24 22:20	15°♄07'42		asc. node	2057 Mar 11 19:23	4°♄31'14	
	2056 Apr 02 02:01	0°♄		evening max el	2057 Mar 23 06:29	21°♄35'48	18°37'32
evening max el	2056 Apr 09 05:00	9°♄16'14	19°22'07	retrograde	2057 Mar 31 02:40	25°♄25'54	
retrograde	2056 Apr 18 10:25	13°♄43'56		evening set	2057 Apr 02 10:08	25°♄07'04	
evening set	2056 Apr 20 12:12	13°♄31'23		inferior conj	2057 Apr 10 01:44	20°♄41'37	2°21'58
inferior conj	2056 Apr 28 23:22	9°♄23'51	0°54'54	minimum elong	2057 Apr 10 05:45	20°♄33'56	2°20'53
minimum elong	2056 Apr 29 01:36	9°♄20'11	0°54'07	min. Earth dist.	2057 Apr 13 11:01	18°♄07'14	0.57848 AU
min. Earth dist.	2056 May 01 17:06	7°♄36'26	0.56113 AU	morning rise	2057 Apr 17 22:15	15°♄22'35	
desc. node	2056 May 02 04:29	7°♄18'32		desc. node	2057 Apr 19 01:31	14°♄53'21	
morning rise	2056 May 07 12:06	4°♄37'42		direct	2057 Apr 23 16:08	13°♄59'40	
direct	2056 May 12 04:50	3°♄47'19		morning max el	2057 May 08 01:06	21°♄35'58	26°31'36
morning max el	2056 May 26 08:32	10°♄58'29	25°05'48		2057 May 15 09:18	0°♄	
	2056 Jun 09 19:37	0°♄			2057 Jun 02 12:33	0°♄	
asc. node	2056 Jun 20 21:35	20°♄52'34		morning set	2057 Jun 06 04:13	7°♄29'03	
morning set	2056 Jun 21 17:30	22°♄37'10		asc. node	2057 Jun 07 18:39	10°♄53'04	
	2056 Jun 25 03:59	0°♄					
superior conj	2056 Jun 28 16:51	7°♄43'26	1°14'04	superior conj	2057 Jun 13 04:28	22°♄41'12	0°54'23
minimum elong	2056 Jun 28 14:27	7°♄30'19	1°13'41	minimum elong	2057 Jun 13 02:22	22°♄29'42	0°53'59
max. Earth dist.	2056 Jun 29 23:42	10°♄31'26	1.32728 AU	max. Earth dist.	2057 Jun 13 10:44	23°♄15'39	1.32265 AU
evening rise	2056 Jul 05 20:38	22°♄58'53			2057 Jun 16 12:35	0°♄	
	2056 Jul 09 08:42	0°♄		evening rise	2057 Jun 20 02:43	7°♄40'15	
	2056 Jul 27 08:37	0°♄			2057 Jul 01 19:55	0°♄	
desc. node	2056 Jul 29 03:47	2°♄25'18		desc. node	2057 Jul 16 00:48	20°♄24'04	
evening max el	2056 Aug 07 06:58	12°♄50'58	27°22'19	evening max el	2057 Jul 20 11:01	25°♄04'04	26°50'10
retrograde	2056 Aug 21 01:42	20°♄07'44			2057 Jul 26 20:14	0°♄	
evening set	2056 Aug 28 06:35	17°♄37'53		retrograde	2057 Aug 03 09:46	2°♄17'37	
min. Earth dist.	2056 Aug 31 20:41	14°♄42'43	0.62554 AU	evening set	2057 Aug 10 07:11	0°♄13'54	
inferior conj	2056 Sep 03 18:06	11°♄58'07	-3°51'58		2057 Aug 10 16:28	30°♄	
minimum elong	2056 Sep 03 23:29	11°♄45'21	3°50'34	min. Earth dist.	2057 Aug 14 01:05	27°♄35'34	0.60565 AU
morning rise	2056 Sep 10 17:50	6°♄51'47		inferior conj	2057 Aug 17 06:58	24°♄53'24	-4°34'52
direct	2056 Sep 13 04:28	6°♄24'51		minimum elong	2057 Aug 17 11:30	24°♄43'55	4°34'08
asc. node	2056 Sep 16 20:47	7°♄27'40		morning rise	2057 Aug 24 17:42	20°♄08'22	
morning max el	2056 Sep 19 22:29	9°♄51'35	17°52'04	direct	2057 Aug 27 03:42	19°♄45'49	
	2056 Oct 03 06:11	0°♄		morning max el	2057 Sep 03 11:13	23°♄21'45	18°06'09
morning set	2056 Oct 06 01:08	4°♄58'13		asc. node	2057 Sep 03 17:51	23°♄38'03	
					2057 Sep 08 18:28	0°♄	
superior conj	2056 Oct 17 07:20	24°♄39'24	0°51'44	morning set	2057 Sep 19 07:25	18°♄26'43	
minimum elong	2056 Oct 17 11:40	24°♄57'43	0°51'10		2057 Sep 25 12:42	0°♄	
	2056 Oct 20 11:49	0°♄		superior conj	2057 Sep 29 02:07	6°♄26'30	1°20'42
max. Earth dist.	2056 Oct 24 07:21	6°♄15'25	1.43338 AU	minimum elong	2057 Sep 29 06:18	6°♄45'12	1°20'15
desc. node	2056 Oct 25 03:05	7°♄35'10		max. Earth dist.	2057 Oct 06 17:14	19°♄39'36	1.41614 AU
evening rise	2056 Nov 01 04:32	18°♄45'58		evening rise	2057 Oct 12 03:06	28°♄33'10	
	2056 Nov 08 12:49	0°♄		desc. node	2057 Oct 12 00:07	28°♄21'12	
	2056 Nov 30 06:37	0°♄			2057 Oct 13 00:45	0°♄	
evening max el	2056 Dec 01 21:11	1°♄43'09	21°25'43		2057 Nov 02 04:12	0°♄	
retrograde	2056 Dec 10 17:04	6°♄58'07		evening max el	2057 Nov 14 14:18	15°♄16'02	22°43'08
asc. node	2056 Dec 13 20:04	6°♄04'07		retrograde	2057 Nov 24 12:21	21°♄09'28	
evening set	2056 Dec 14 21:39	5°♄20'09		evening set	2057 Nov 29 04:59	19°♄14'52	
	2056 Dec 19 14:08	30°♄		asc. node	2057 Nov 30 17:06	17°♄48'50	
inferior conj	2056 Dec 20 06:10	29°♄04'45	2°03'37	inferior conj	2057 Dec 04 13:39	12°♄53'21	1°17'28
minimum elong	2056 Dec 20 03:47	29°♄12'58	2°02'48	minimum elong	2057 Dec 04 11:58	12°♄59'11	1°16'49
min. Earth dist.	2056 Dec 20 12:15	28°♄43'42	0.67665 AU	min. Earth dist.	2057 Dec 04 08:47	13°♄10'12	0.67843 AU
morning rise	2056 Dec 25 09:44	22°♄52'03		morning rise	2057 Dec 09 18:48	6°♄43'19	
direct	2056 Dec 30 12:26	20°♄39'24		direct	2057 Dec 14 06:45	4°♄53'23	
morning max el	2057 Jan 09 20:08	26°♄47'50	23°18'45	morning max el	2057 Dec 23 08:44	10°♄13'21	21°52'09
	2057 Jan 12 19:23	0°♄		desc. node	2058 Jan 07 23:22	0°♄16'11	
desc. node	2057 Jan 21 02:19	10°♄28'20			2058 Jan 07 18:52	0°♄	
	2057 Feb 03 11:46	0°♄		morning set	2058 Jan 24 20:26	25°♄57'48	
morning set	2057 Feb 13 19:35	16°♄38'04			2058 Jan 27 08:26	0°♄	
max. Earth dist.	2057 Feb 17 23:56	23°♄47'06	1.39308 AU	max. Earth dist.	2058 Jan 30 22:10	5°♄52'53	1.41429 AU
	2057 Feb 21 12:18	0°♄					
superior conj	2057 Feb 25 14:29	7°♄28'13	-1°51'48	superior conj	2058 Feb 07 15:08	19°♄04'38	-2°03'48
minimum elong	2057 Feb 25 18:28	7°♄46'45	1°51'29	minimum elong	2058 Feb 07 16:48	19°♄11'59	2°03'46
evening rise	2057 Mar 07 00:08	25°♄24'15			2058 Feb 13 17:12	0°♄	
	2057 Mar 09 09:37	0°♄		evening rise	2058 Feb 18 06:22	8°♄22'30	
				asc. node	2058 Feb 26 16:25	23°♄29'12	

	2058 Mar 02 21:58	0°♿				2059 Feb 06 05:34	0°♿		
evening max el	2058 Mar 06 14:46	4°♿23'56	18°12'56	asc. node		2059 Feb 13 13:26	11°♿53'50		
retrograde	2058 Mar 13 13:19	7°♿53'00		evening max el		2059 Feb 18 02:38	17°♿31'58	18°07'50	
evening set	2058 Mar 16 02:50	7°♿25'18		retrograde		2059 Feb 24 14:56	20°♿55'33		
inferior conj	2058 Mar 23 01:03	2°♿38'53	3°15'20	evening set		2059 Feb 27 09:42	20°♿17'43		
minimum elong	2058 Mar 23 04:05	2°♿32'07	3°14'50	inferior conj		2059 Mar 05 18:20	15°♿10'27	3°39'42	
	2058 Mar 26 00:28	30°♿♿		minimum elong		2059 Mar 05 19:23	15°♿07'44	3°39'38	
min. Earth dist.	2058 Mar 26 09:58	29°♿39'46	0.59949 AU	min. Earth dist.		2059 Mar 08 16:43	12°♿11'38	0.62072 AU	
morning rise	2058 Mar 30 03:05	26°♿55'56		morning rise		2059 Mar 12 03:47	9°♿12'35		
direct	2058 Apr 05 15:57	24°♿56'21		direct		2059 Mar 19 01:36	6°♿42'32		
desc. node	2058 Apr 05 22:34	24°♿56'33		desc. node		2059 Mar 23 19:36	7°♿45'41		
	2058 Apr 16 22:17	0°♿		morning max el		2059 Apr 02 03:37	14°♿37'39	27°49'50	
morning max el	2058 Apr 19 23:14	2°♿45'41	27°28'50			2059 Apr 14 14:29	0°♿		
	2058 May 09 19:46	0°♿				2059 May 02 07:46	0°♿		
morning set	2058 May 21 12:02	22°♿10'14		morning set		2059 May 05 15:00	6°♿34'19		
	2058 May 25 04:34	0°♿		max. Earth dist.		2059 May 11 08:20	18°♿36'08	1.32509 AU	
asc. node	2058 May 25 15:41	1°♿00'13		asc. node		2059 May 12 12:44	21°♿09'49		
max. Earth dist.	2058 May 27 22:54	6°♿01'40	1.32191 AU						
				superior conj		2059 May 13 01:56	22°♿21'38	0°05'50	
superior conj	2058 May 28 16:03	7°♿35'49	0°31'24	minimum elong		2059 May 13 01:40	22°♿20'07	0°05'46	
minimum elong	2058 May 28 14:41	7°♿28'21	0°31'07	behind sun begin		2059 May 12 20:50	21°♿53'53		
evening rise	2058 Jun 04 12:35	22°♿30'32		behind sun end		2059 May 13 06:29	22°♿46'23		
	2058 Jun 08 03:39	0°♿				2059 May 16 14:00	0°♿		
	2058 Jun 26 10:44	0°♿		evening rise		2059 May 20 00:14	7°♿22'50		
evening max el	2058 Jul 02 08:07	6°♿30'22	25°46'19			2059 May 31 20:33	0°♿		
desc. node	2058 Jul 02 21:51	7°♿02'34		evening max el		2059 Jun 13 23:00	17°♿15'32	24°19'06	
retrograde	2058 Jul 16 08:23	13°♿39'24		desc. node		2059 Jun 19 18:50	21°♿49'13		
evening set	2058 Jul 22 09:42	12°♿12'19		retrograde		2059 Jun 27 19:32	24°♿15'01		
min. Earth dist.	2058 Jul 26 20:26	9°♿33'41	0.58510 AU	evening set		2059 Jul 02 12:41	23°♿25'26		
inferior conj	2058 Jul 30 02:16	7°♿13'13	-4°57'40	min. Earth dist.		2059 Jul 08 09:52	20°♿29'17	0.56660 AU	
minimum elong	2058 Jul 30 03:31	7°♿10'57	4°57'37	inferior conj		2059 Jul 11 01:27	18°♿49'14	-4°46'52	
morning rise	2058 Aug 06 23:37	2°♿50'51		minimum elong		2059 Jul 10 21:23	18°♿55'41	4°46'26	
direct	2058 Aug 09 11:43	2°♿30'38		morning rise		2059 Jul 19 08:46	14°♿47'15		
morning max el	2058 Aug 17 17:31	6°♿25'50	18°40'31	direct		2059 Jul 22 00:50	14°♿28'10		
asc. node	2058 Aug 21 14:53	10°♿54'32		morning max el		2059 Jul 31 14:29	18°♿54'52	19°36'16	
	2058 Sep 01 18:34	0°♿		asc. node		2059 Aug 08 11:57	29°♿02'58		
morning set	2058 Sep 03 01:10	2°♿28'15				2059 Aug 09 02:00	0°♿		
				morning set		2059 Aug 18 02:54	16°♿53'27		
superior conj	2058 Sep 11 18:11	19°♿16'16	1°37'59			2059 Aug 24 15:05	0°♿		
minimum elong	2058 Sep 11 20:43	19°♿28'14	1°37'48						
	2058 Sep 17 14:38	0°♿		superior conj		2059 Aug 26 02:06	2°♿53'38	1°45'12	
max. Earth dist.	2058 Sep 18 22:37	2°♿21'39	1.39608 AU	minimum elong		2059 Aug 26 02:45	2°♿56'52	1°45'12	
evening rise	2058 Sep 23 00:23	9°♿23'09		max. Earth dist.		2059 Sep 01 02:44	14°♿27'14	1.37572 AU	
desc. node	2058 Sep 28 21:09	19°♿01'28		evening rise		2059 Sep 04 21:13	21°♿18'59		
	2058 Oct 05 23:26	0°♿				2059 Sep 09 21:36	0°♿		
evening max el	2058 Oct 28 03:53	28°♿52'13	24°03'07	desc. node		2059 Sep 15 18:09	9°♿31'41		
	2058 Oct 29 08:00	0°♿				2059 Sep 29 22:00	0°♿		
retrograde	2058 Nov 08 04:12	5°♿20'19		evening max el		2059 Oct 10 15:52	12°♿31'08	25°18'51	
evening set	2058 Nov 13 10:26	3°♿08'41		retrograde		2059 Oct 22 15:43	19°♿26'12		
	2058 Nov 16 09:27	30°♿♿		evening set		2059 Oct 28 12:18	16°♿58'54		
asc. node	2058 Nov 17 14:07	28°♿27'35		min. Earth dist.		2059 Nov 01 22:57	12°♿02'14	0.67174 AU	
min. Earth dist.	2058 Nov 18 05:08	27°♿37'15	0.67677 AU	inferior conj		2059 Nov 03 01:12	10°♿37'08	-0°29'15	
inferior conj	2058 Nov 18 20:35	26°♿45'00	0°26'07	minimum elong		2059 Nov 03 01:57	10°♿34'42	0°28'56	
minimum elong	2058 Nov 18 19:58	26°♿47'07	0°25'51	asc. node		2059 Nov 04 11:09	8°♿48'50		
morning rise	2058 Nov 24 05:28	20°♿39'59		morning rise		2059 Nov 08 15:49	4°♿39'35		
direct	2058 Nov 28 03:47	19°♿12'16		direct		2059 Nov 12 02:08	3°♿31'41		
morning max el	2058 Dec 06 04:14	23°♿49'32	20°34'27	morning max el		2059 Nov 19 07:38	7°♿36'27	19°29'50	
	2058 Dec 11 11:49	0°♿		greatest brilliancy		2059 Dec 02 17:05	25°♿32'13	-0.7m	
desc. node	2058 Dec 25 20:25	20°♿26'10				2059 Dec 05 15:50	0°♿		
	2059 Jan 01 03:29	0°♿		desc. node		2059 Dec 12 17:26	10°♿51'38		
morning set	2059 Jan 03 21:28	4°♿14'48		morning set		2059 Dec 13 19:32	12°♿32'34		
max. Earth dist.	2059 Jan 13 04:32	18°♿57'04	1.43246 AU			2059 Dec 24 24:00	0°♿		
				max. Earth dist.		2059 Dec 26 17:57	2°♿45'42	1.44523 AU	
superior conj	2059 Jan 19 15:33	29°♿33'07	-2°02'10						
minimum elong	2059 Jan 19 12:23	29°♿19'55	2°02'04	superior conj		2059 Dec 30 13:39	8°♿50'36	-1°42'22	
	2059 Jan 19 21:59	0°♿		minimum elong		2059 Dec 30 05:32	8°♿18'10	1°41'42	
evening rise	2059 Jan 31 20:54	20°♿35'25				2060 Jan 12 11:58	0°♿		

evening rise	2060 Jan 13 15:21	1° \approx 54'28		minimum elong	2060 Dec 08 09:32	16° \approx 52'24	1°03'27
asc. node	2060 Jan 31 10:28	29° \approx 34'28		max. Earth dist.	2060 Dec 08 11:31	17° \approx 00'13	1.45117 AU
	2060 Jan 31 19:33	0° \approx			2060 Dec 16 17:36	0° \approx	
evening max el	2060 Feb 01 15:07	0° \approx 51'43	18°21'40	evening rise	2060 Dec 24 10:39	12° \approx 15'51	
retrograde	2060 Feb 08 02:47	4° \approx 22'59		greatest brilliancy	2061 Jan 01 06:35	24° \approx 47'11	-0.8m
evening set	2060 Feb 11 02:44	3° \approx 34'11			2061 Jan 04 14:06	0° \approx	
	2060 Feb 15 09:08	30° \approx		evening max el	2061 Jan 15 01:46	14° \approx 18'17	18°53'35
inferior conj	2060 Feb 17 01:28	28° \approx 07'45	3°42'05	asc. node	2061 Jan 17 07:30	16° \approx 18'47	
minimum elong	2060 Feb 17 00:44	28° \approx 09'51	3°42'02	retrograde	2061 Jan 21 20:54	18° \approx 08'09	
min. Earth dist.	2060 Feb 19 09:03	25° \approx 29'29	0.63975 AU	evening set	2061 Jan 25 02:50	17° \approx 07'25	
morning rise	2060 Feb 22 22:02	22° \approx 01'17		inferior conj	2061 Jan 30 18:44	11° \approx 23'56	3°28'18
direct	2060 Feb 29 19:25	19° \approx 13'22		minimum elong	2061 Jan 30 16:46	11° \approx 30'01	3°28'00
desc. node	2060 Mar 09 16:38	22° \approx 52'33		min. Earth dist.	2061 Feb 01 10:53	9° \approx 19'15	0.65524 AU
morning max el	2060 Mar 14 12:12	27° \approx 07'15	27°33'54	morning rise	2061 Feb 05 06:21	5° \approx 12'58	
	2060 Mar 17 05:29	0° \approx		direct	2061 Feb 11 20:18	2° \approx 21'28	
	2060 Apr 07 06:05	0° \approx		desc. node	2061 Feb 24 13:40	9° \approx 42'05	
morning set	2060 Apr 18 10:34	20° \approx 32'35		morning max el	2061 Feb 24 22:06	10° \approx 03'07	26°46'00
	2060 Apr 23 02:14	0° \approx			2061 Mar 12 16:16	0° \approx	
max. Earth dist.	2060 Apr 23 10:55	0° \approx 45'16	1.33245 AU		2061 Mar 30 17:27	0° \approx	
				morning set	2061 Apr 01 19:28	3° \approx 55'21	
superior conj	2060 Apr 26 08:17	6° \approx 51'56	-0°21'34	max. Earth dist.	2061 Apr 06 02:58	12° \approx 20'41	1.34434 AU
minimum elong	2060 Apr 26 09:21	6° \approx 57'39	0°21'20				
asc. node	2060 Apr 28 09:46	11° \approx 17'11		superior conj	2061 Apr 10 08:59	21° \approx 00'54	-0°49'35
evening rise	2060 May 03 11:47	22° \approx 10'00		minimum elong	2061 Apr 10 11:30	21° \approx 13'56	0°49'05
	2060 May 07 07:10	0° \approx			2061 Apr 14 15:53	0° \approx	
evening max el	2060 May 25 13:12	27° \approx 43'27	22°42'54	asc. node	2061 Apr 15 06:48	1° \approx 18'34	
	2060 May 28 03:05	0° \approx		evening rise	2061 Apr 17 21:25	6° \approx 46'16	
desc. node	2060 Jun 05 15:51	4° \approx 07'40			2061 Apr 30 13:31	0° \approx	
retrograde	2060 Jun 07 18:31	4° \approx 17'52		evening max el	2061 May 07 10:38	8° \approx 27'24	21°12'20
evening set	2060 Jun 11 00:18	3° \approx 54'46		retrograde	2061 May 19 08:27	14° \approx 16'09	
min. Earth dist.	2060 Jun 18 21:22	0° \approx 27'30	0.55353 AU	evening set	2061 May 21 14:49	14° \approx 04'16	
	2060 Jun 19 16:37	30° \approx		desc. node	2061 May 23 12:53	13° \approx 36'45	
inferior conj	2060 Jun 20 05:50	29° \approx 41'03	-3°49'51	inferior conj	2061 May 30 23:57	10° \approx 05'26	-2°08'29
minimum elong	2060 Jun 19 22:00	29° \approx 52'16	3°47'55	minimum elong	2061 May 30 18:01	10° \approx 13'46	2°06'27
morning rise	2060 Jun 28 22:02	25° \approx 49'15		min. Earth dist.	2061 May 31 09:37	9° \approx 51'49	0.54899 AU
direct	2060 Jul 01 19:30	25° \approx 29'52		morning rise	2061 Jun 08 21:27	6° \approx 05'22	
	2060 Jul 12 05:40	0° \approx		direct	2061 Jun 12 05:15	5° \approx 41'24	
morning max el	2060 Jul 13 00:13	0° \approx 41'31	20°53'00	morning max el	2061 Jun 24 23:07	11° \approx 45'17	22°26'47
asc. node	2060 Jul 25 09:00	17° \approx 50'52			2061 Jul 08 09:35	0° \approx	
	2060 Jul 31 15:26	0° \approx		asc. node	2061 Jul 12 06:03	7° \approx 08'19	
morning set	2060 Aug 01 09:57	1° \approx 34'55		morning set	2061 Jul 16 20:13	16° \approx 26'17	
					2061 Jul 23 05:21	0° \approx	
superior conj	2060 Aug 08 21:17	17° \approx 05'16	1°44'13				
minimum elong	2060 Aug 08 20:24	17° \approx 00'42	1°44'13	superior conj	2061 Jul 24 00:11	1° \approx 39'54	1°36'37
max. Earth dist.	2060 Aug 13 11:04	26° \approx 01'31	1.35734 AU	minimum elong	2061 Jul 23 22:17	1° \approx 29'49	1°36'28
	2060 Aug 15 08:49	0° \approx		max. Earth dist.	2061 Jul 27 03:59	8° \approx 16'39	1.34248 AU
evening rise	2060 Aug 17 13:57	4° \approx 12'05		evening rise	2061 Jul 31 21:55	17° \approx 49'45	
desc. node	2060 Sep 01 15:09	29° \approx 46'40			2061 Aug 07 10:17	0° \approx	
	2060 Sep 01 18:38	0° \approx		desc. node	2061 Aug 19 12:11	19° \approx 38'57	
evening max el	2060 Sep 22 03:51	26° \approx 10'05	26°22'51		2061 Aug 27 01:04	0° \approx	
	2060 Sep 26 15:12	0° \approx		evening max el	2061 Sep 04 16:03	9° \approx 40'55	27°07'35
retrograde	2060 Oct 04 22:27	3° \approx 21'52		retrograde	2061 Sep 17 23:41	16° \approx 59'10	
evening set	2060 Oct 11 08:42	0° \approx 42'49		evening set	2061 Sep 24 21:16	14° \approx 15'31	
	2060 Oct 12 04:03	30° \approx		min. Earth dist.	2061 Sep 28 17:54	10° \approx 31'03	0.65130 AU
min. Earth dist.	2060 Oct 15 11:59	26° \approx 22'15	0.66328 AU	inferior conj	2061 Sep 30 19:49	8° \approx 10'46	-2°25'43
inferior conj	2060 Oct 17 01:40	24° \approx 27'20	-1°27'09	minimum elong	2061 Sep 30 23:43	7° \approx 59'50	2°24'15
minimum elong	2060 Oct 17 03:59	24° \approx 20'16	1°26'11	morning rise	2061 Oct 07 03:00	2° \approx 36'30	
asc. node	2060 Oct 21 08:12	19° \approx 50'06		asc. node	2061 Oct 08 05:16	2° \approx 11'12	
morning rise	2060 Oct 22 23:47	18° \approx 39'56		direct	2061 Oct 09 20:03	1° \approx 57'06	
direct	2060 Oct 26 00:17	17° \approx 48'13		morning max el	2061 Oct 16 08:24	5° \approx 27'18	18°07'53
morning max el	2060 Nov 01 17:49	21° \approx 31'07	18°40'35		2061 Nov 01 21:16	0° \approx	
	2060 Nov 08 11:06	0° \approx		morning set	2061 Nov 03 13:52	2° \approx 48'01	
morning set	2060 Nov 22 14:05	21° \approx 56'42		desc. node	2061 Nov 15 11:27	22° \approx 11'23	
	2060 Nov 27 16:08	0° \approx					
desc. node	2060 Nov 28 14:27	1° \approx 28'05		superior conj	2061 Nov 17 22:03	26° \approx 04'55	-0°16'22
				minimum elong	2061 Nov 17 19:59	25° \approx 56'41	0°16'04
superior conj	2060 Dec 08 17:20	17° \approx 23'03	-1°04'23	behind sun begin	2061 Nov 17 18:30	25° \approx 50'47	

behind sun end	2061 Nov 17 21:28	26° \mathbb{M} 02'35			2062 Oct 07 21:22	0° $\underline{\mathbf{a}}$	
	2061 Nov 20 09:26	0° \mathbb{A}		morning set	2062 Oct 16 15:43	14° $\underline{\mathbf{a}}$ 55'04	
max. Earth dist.	2061 Nov 21 06:22	1° \mathbb{A} 22'31	1.44976 AU		2062 Oct 25 11:09	0° \mathbb{M}	
evening rise	2061 Dec 04 07:57	21° \mathbb{A} 45'34					
	2061 Dec 09 15:49	0° \mathbb{B}		superior conj	2062 Oct 28 22:57	5° \mathbb{M} 48'22	0°29'35
greatest brilliancy	2061 Dec 17 07:08	11° \mathbb{B} 39'36	-0.7m	minimum elong	2062 Oct 29 01:59	6° \mathbb{M} 00'52	0°29'10
evening max el	2061 Dec 29 08:33	27° \mathbb{B} 47'41	19°42'03	desc. node	2062 Nov 02 08:30	12° \mathbb{M} 58'22	
	2061 Dec 31 18:37	0° \approx		max. Earth dist.	2062 Nov 03 23:56	15° \mathbb{M} 36'37	1.44123 AU
asc. node	2062 Jan 04 04:33	1° \approx 51'46			2062 Nov 13 03:57	0° \mathbb{A}	
retrograde	2062 Jan 05 18:04	2° \approx 05'13		evening rise	2062 Nov 13 16:57	0° \mathbb{A} 50'06	
evening set	2062 Jan 09 07:26	0° \approx 51'10			2062 Dec 03 08:29	0° \mathbb{B}	
	2062 Jan 10 09:17	30° \mathbb{R} \mathbb{B}		evening max el	2062 Dec 12 10:07	11° \mathbb{B} 18'20	20°44'37
inferior conj	2062 Jan 14 18:57	24° \mathbb{B} 53'03	3°02'26	retrograde	2062 Dec 20 15:54	16° \mathbb{B} 10'34	
minimum elong	2062 Jan 14 16:24	25° \mathbb{B} 01'28	3°01'51	asc. node	2062 Dec 22 01:36	15° \mathbb{B} 59'34	
min. Earth dist.	2062 Jan 15 20:42	23° \mathbb{B} 28'07	0.66670 AU	evening set	2062 Dec 24 14:29	14° \mathbb{B} 41'37	
morning rise	2062 Jan 20 01:08	18° \mathbb{B} 40'08		inferior conj	2062 Dec 29 23:36	8° \mathbb{B} 31'41	2°27'17
direct	2062 Jan 26 03:04	15° \mathbb{B} 57'35		minimum elong	2062 Dec 29 21:02	8° \mathbb{B} 40'30	2°26'30
morning max el	2062 Feb 07 07:08	23° \mathbb{B} 12'22	25°34'38	min. Earth dist.	2062 Dec 30 12:26	7° \mathbb{B} 47'48	0.67417 AU
desc. node	2062 Feb 11 10:42	27° \mathbb{B} 44'33		morning rise	2063 Jan 04 03:24	2° \mathbb{B} 18'35	
	2062 Feb 13 07:55	0° \approx			2063 Jan 08 10:29	30° \mathbb{R} \mathbb{A}	
	2062 Mar 06 00:33	0° \mathbb{H}		direct	2063 Jan 09 14:51	29° \mathbb{A} 53'40	
morning set	2062 Mar 15 13:16	16° \mathbb{H} 29'25			2063 Jan 10 20:03	0° \mathbb{B}	
max. Earth dist.	2062 Mar 19 07:15	23° \mathbb{H} 27'38	1.36073 AU	morning max el	2063 Jan 20 15:28	6° \mathbb{B} 28'08	24°09'43
	2062 Mar 22 16:38	0° \mathbb{Y}		desc. node	2063 Jan 29 07:44	16° \mathbb{B} 38'57	
					2063 Feb 07 22:05	0° \approx	
superior conj	2062 Mar 25 01:23	4° \mathbb{Y} 40'58	-1°16'41	morning set	2063 Feb 25 10:06	27° \approx 58'04	
minimum elong	2062 Mar 25 05:09	4° \mathbb{Y} 59'47	1°16'05		2063 Feb 26 14:07	0° \mathbb{H}	
evening rise	2062 Apr 02 03:01	21° \mathbb{Y} 05'24		max. Earth dist.	2063 Mar 01 03:40	4° \mathbb{H} 32'44	1.38079 AU
asc. node	2062 Apr 02 03:52	21° \mathbb{Y} 09'45					
	2062 Apr 06 14:50	0° \mathbb{B}		superior conj	2063 Mar 08 05:58	17° \mathbb{H} 42'03	-1°40'38
evening max el	2062 Apr 19 19:36	19° \mathbb{B} 47'59	19°56'56	minimum elong	2063 Mar 08 10:17	18° \mathbb{H} 02'39	1°40'10
retrograde	2062 Apr 29 23:50	24° \mathbb{B} 43'02			2063 Mar 14 13:22	0° \mathbb{Y}	
evening set	2062 May 02 00:19	24° \mathbb{B} 32'16		evening rise	2063 Mar 17 02:04	4° \mathbb{Y} 59'35	
desc. node	2062 May 10 09:55	20° \mathbb{B} 50'31		asc. node	2063 Mar 20 00:55	10° \mathbb{Y} 45'10	
inferior conj	2062 May 10 22:02	20° \mathbb{B} 32'11	-0°08'49		2063 Mar 31 23:06	0° \mathbb{B}	
minimum elong	2062 May 10 21:38	20° \mathbb{B} 32'47	0°08'41	evening max el	2063 Apr 02 15:42	1° \mathbb{B} 47'20	19°00'39
transit middle	2062 May 10 21:38	20° \mathbb{B} 32'47	0°08'41	retrograde	2063 Apr 11 05:23	5° \mathbb{B} 56'54	
transit begin	2062 May 10 18:17	20° \mathbb{B} 37'52		evening set	2063 Apr 13 09:34	5° \mathbb{B} 41'57	
transit end	2062 May 11 00:58	20° \mathbb{B} 27'43		inferior conj	2063 Apr 21 12:19	1° \mathbb{B} 27'13	1°35'58
min. Earth dist.	2062 May 12 23:14	19° \mathbb{B} 17'41	0.55416 AU	minimum elong	2063 Apr 21 15:44	1° \mathbb{B} 21'14	1°34'52
morning rise	2062 May 19 16:50	16° \mathbb{B} 06'02			2063 Apr 23 14:05	30° \mathbb{R} \mathbb{Y}	
direct	2062 May 23 19:49	15° \mathbb{B} 28'38		min. Earth dist.	2063 Apr 24 14:45	29° \mathbb{Y} 17'56	0.56787 AU
morning max el	2062 Jun 06 14:52	22° \mathbb{B} 18'48	24°08'46	desc. node	2063 Apr 27 06:57	27° \mathbb{Y} 38'41	
	2062 Jun 13 09:16	0° \mathbb{I}		morning rise	2063 Apr 29 18:50	26° \mathbb{Y} 26'45	
asc. node	2062 Jun 29 03:06	26° \mathbb{I} 47'48		direct	2063 May 04 22:42	25° \mathbb{Y} 23'49	
	2062 Jun 30 16:15	0° \mathbb{E}			2063 May 16 01:30	0° \mathbb{B}	
morning set	2062 Jul 01 08:00	1° \mathbb{E} 22'42		morning max el	2063 May 19 05:28	2° \mathbb{B} 46'30	25°45'05
					2063 Jun 07 13:22	0° \mathbb{I}	
superior conj	2062 Jul 08 08:09	16° \mathbb{E} 29'28	1°23'38	morning set	2063 Jun 15 19:33	16° \mathbb{I} 17'45	
minimum elong	2062 Jul 08 05:47	16° \mathbb{E} 16'38	1°23'19	asc. node	2063 Jun 16 00:10	16° \mathbb{I} 42'06	
max. Earth dist.	2062 Jul 10 06:11	20° \mathbb{E} 37'26	1.33169 AU		2063 Jun 22 03:20	0° \mathbb{E}	
	2062 Jul 14 17:22	0° \mathbb{Q}					
evening rise	2062 Jul 15 17:03	2° \mathbb{Q} 00'31		superior conj	2063 Jun 22 18:56	1° \mathbb{E} 25'40	1°06'10
	2062 Jul 31 07:14	0° \mathbb{M}		minimum elong	2063 Jun 22 16:37	1° \mathbb{E} 12'55	1°05'45
desc. node	2062 Aug 06 09:14	8° \mathbb{M} 58'57		max. Earth dist.	2063 Jun 23 15:08	3° \mathbb{E} 16'20	1.32488 AU
evening max el	2062 Aug 18 03:10	22° \mathbb{M} 52'20	27°25'55	evening rise	2063 Jun 29 19:54	16° \mathbb{E} 32'56	
	2062 Aug 29 22:09	0° $\underline{\mathbf{a}}$			2063 Jul 06 15:42	0° \mathbb{Q}	
retrograde	2062 Aug 31 18:44	0° $\underline{\mathbf{a}}$ 09'49		desc. node	2063 Jul 24 06:16	27° \mathbb{Q} 32'16	
	2062 Sep 02 14:16	30° \mathbb{R} \mathbb{M}			2063 Jul 26 06:51	0° \mathbb{M}	
evening set	2062 Sep 07 23:02	27° \mathbb{M} 31'39		evening max el	2063 Jul 31 10:31	5° \mathbb{M} 29'28	27°12'44
min. Earth dist.	2062 Sep 11 14:37	24° \mathbb{M} 20'26	0.63589 AU	retrograde	2063 Aug 14 06:46	12° \mathbb{M} 44'01	
inferior conj	2062 Sep 14 05:06	21° \mathbb{M} 41'54	-3°22'08	evening set	2063 Aug 21 10:03	10° \mathbb{M} 23'46	
minimum elong	2062 Sep 14 10:11	21° \mathbb{M} 28'58	3°20'32	min. Earth dist.	2063 Aug 25 00:41	7° \mathbb{M} 37'41	0.61735 AU
morning rise	2062 Sep 20 22:32	16° \mathbb{M} 24'07		inferior conj	2063 Aug 28 02:21	4° \mathbb{M} 52'17	-4°11'55
direct	2062 Sep 23 10:48	15° \mathbb{M} 53'25		minimum elong	2063 Aug 28 07:37	4° \mathbb{M} 40'24	4°10'45
asc. node	2062 Sep 25 02:18	16° \mathbb{M} 06'52		morning rise	2063 Sep 04 06:45	29° \mathbb{Q} 54'35	
morning max el	2062 Sep 30 00:36	19° \mathbb{M} 19'03	17°52'35		2063 Sep 04 00:36	30° \mathbb{R} \mathbb{Q}	




























































































































direct	2063 Sep 06 16:55	29° Ω 29'39		direct	2064 Aug 19 10:06	12° Ω 36'31	
	2063 Sep 09 07:53	0° \mathbb{M}		morning max el	2064 Aug 27 01:51	16° Ω 18'54	18°18'18
asc. node	2063 Sep 11 23:21	1° \mathbb{M} 31'27		asc. node	2064 Aug 28 20:24	18° Ω 11'34	
morning max el	2063 Sep 13 15:28	2° \mathbb{M} 58'52	17°55'42		2064 Sep 05 17:19	0° \mathbb{M}	
morning set	2063 Sep 29 13:13	27° \mathbb{M} 58'10		morning set	2064 Sep 12 00:47	11° \mathbb{M} 41'28	
	2063 Sep 30 15:59	0° Ω					
superior conj	2063 Oct 10 02:58	16° Ω 51'53	1°05'32	superior conj	2064 Sep 21 07:28	29° \mathbb{M} 07'27	1°29'23
minimum elong	2063 Oct 10 07:32	17° Ω 11'38	1°04'58	minimum elong	2064 Sep 21 11:02	29° \mathbb{M} 23'48	1°29'04
max. Earth dist.	2063 Oct 17 13:25	29° Ω 24'28	1.42656 AU		2064 Sep 21 18:59	0° Ω	
	2063 Oct 17 22:05	0° \mathbb{M}		max. Earth dist.	2064 Sep 28 21:01	12° Ω 30'14	1.40771 AU
desc. node	2063 Oct 20 05:34	3° \mathbb{M} 45'38		evening rise	2064 Oct 03 13:28	20° Ω 21'13	
evening rise	2063 Oct 24 05:59	10° \mathbb{M} 09'54		desc. node	2064 Oct 06 02:35	24° Ω 29'27	
	2063 Nov 06 07:38	0° \mathbb{M}			2064 Oct 09 14:01	0° \mathbb{M}	
evening max el	2063 Nov 25 06:00	24° \mathbb{M} 49'54	21°57'56	evening max el	2064 Oct 30 13:54	0° \mathbb{M}	
	2063 Dec 02 10:18	0° \mathbb{M}		retrograde	2064 Nov 06 21:08	8° \mathbb{M} 23'05	23°17'15
retrograde	2063 Dec 04 12:36	0° \mathbb{M} 21'04		evening set	2064 Nov 17 06:38	14° \mathbb{M} 32'40	
	2063 Dec 06 12:33	30° \mathbb{R} \mathbb{M}		asc. node	2064 Nov 22 04:55	12° \mathbb{M} 30'35	
evening set	2063 Dec 08 22:12	28° \mathbb{M} 35'53		min. Earth dist.	2064 Nov 24 19:38	9° \mathbb{M} 47'10	
asc. node	2063 Dec 08 22:36	28° \mathbb{M} 35'04		inferior conj	2064 Nov 27 04:33	6° \mathbb{M} 39'55	0.67804 AU
inferior conj	2063 Dec 14 06:35	22° \mathbb{M} 17'23	1°44'46	minimum elong	2064 Nov 27 14:01	6° \mathbb{M} 07'24	0°56'16
minimum elong	2063 Dec 14 04:27	22° \mathbb{M} 24'47	1°43'59	morning rise	2064 Nov 27 12:44	6° \mathbb{M} 11'48	0°55'44
min. Earth dist.	2063 Dec 14 07:50	22° \mathbb{M} 13'04	0.67784 AU		2064 Dec 02 20:30	29° \mathbb{M} 59'15	
morning rise	2063 Dec 19 10:35	16° \mathbb{M} 05'50			2064 Dec 02 20:08	30° \mathbb{R} \mathbb{M}	
direct	2063 Dec 24 06:54	14° \mathbb{M} 02'57		direct	2064 Dec 07 02:21	28° \mathbb{M} 19'12	
morning max el	2064 Jan 03 01:40	19° \mathbb{M} 50'10	22°41'20		2064 Dec 11 18:46	0° \mathbb{M}	
	2064 Jan 11 15:35	0° \mathbb{M}		morning max el	2064 Dec 15 17:01	3° \mathbb{M} 20'23	21°17'48
desc. node	2064 Jan 16 04:46	6° \mathbb{M} 10'37		desc. node	2065 Jan 02 01:48	26° \mathbb{M} 08'37	
	2064 Feb 01 03:16	0° \mathbb{M}			2065 Jan 04 16:19	0° \mathbb{M}	
morning set	2064 Feb 06 04:01	8° \mathbb{M} 07'05		morning set	2065 Jan 15 17:13	16° \mathbb{M} 55'27	
max. Earth dist.	2064 Feb 10 23:41	16° \mathbb{M} 11'29	1.40232 AU	max. Earth dist.	2065 Jan 23 01:03	28° \mathbb{M} 42'04	1.42249 AU
					2065 Jan 23 20:00	0° \mathbb{M}	
superior conj	2064 Feb 18 18:20	29° \mathbb{M} 53'16	-1°58'14	superior conj	2065 Jan 30 09:10	11° \mathbb{M} 01'40	-2°05'06
minimum elong	2064 Feb 18 21:39	0° \mathbb{M} 08'21	1°58'03	minimum elong	2065 Jan 30 09:03	11° \mathbb{M} 01'11	2°05'05
	2064 Feb 18 19:49	0° \mathbb{M}			2065 Feb 10 02:01	0° \mathbb{M}	
evening rise	2064 Feb 28 15:33	18° \mathbb{M} 21'29		evening rise	2065 Feb 10 15:38	1° \mathbb{M} 01'42	
asc. node	2064 Mar 05 21:58	29° \mathbb{M} 59'14		asc. node	2065 Feb 20 18:58	18° \mathbb{M} 44'19	
	2064 Mar 05 22:08	0° \mathbb{Y}		evening max el	2065 Feb 27 06:34	27° \mathbb{M} 17'45	18°08'21
evening max el	2064 Mar 15 20:26	14° \mathbb{Y} 20'16	18°24'31		2065 Mar 02 22:46	0° \mathbb{Y}	
retrograde	2064 Mar 23 06:04	17° \mathbb{Y} 59'45		retrograde	2065 Mar 05 23:40	0° \mathbb{Y} 43'00	
evening set	2064 Mar 25 16:06	17° \mathbb{Y} 37'25		evening set	2065 Mar 08 15:19	0° \mathbb{Y} 11'16	
inferior conj	2064 Apr 01 23:51	13° \mathbb{Y} 02'49	2°48'34		2065 Mar 09 02:01	30° \mathbb{R} \mathbb{M}	
minimum elong	2064 Apr 02 03:40	12° \mathbb{Y} 54'59	2°47'42	inferior conj	2065 Mar 15 07:20	25° \mathbb{M} 16'00	3°28'46
min. Earth dist.	2064 Apr 05 10:25	10° \mathbb{Y} 15'02	0.58719 AU	minimum elong	2065 Mar 15 09:33	25° \mathbb{M} 10'43	3°28'30
morning rise	2064 Apr 09 12:28	7° \mathbb{Y} 32'12		min. Earth dist.	2065 Mar 18 12:41	22° \mathbb{M} 13'48	0.60866 AU
desc. node	2064 Apr 13 03:58	6° \mathbb{Y} 10'02		morning rise	2065 Mar 22 01:53	19° \mathbb{M} 25'22	
direct	2064 Apr 15 15:17	5° \mathbb{Y} 53'55		direct	2065 Mar 28 19:40	17° \mathbb{M} 11'24	
morning max el	2064 Apr 30 00:23	13° \mathbb{Y} 36'40	27°00'06	desc. node	2065 Mar 31 00:59	17° \mathbb{M} 25'09	
	2064 May 13 01:00	0° \mathbb{M}		morning max el	2065 Apr 12 01:29	25° \mathbb{M} 04'55	27°42'19
	2064 May 29 16:36	0° \mathbb{M}			2065 Apr 16 13:56	0° \mathbb{Y}	
morning set	2064 May 30 05:16	1° \mathbb{M} 06'01			2065 May 06 09:40	0° \mathbb{M}	
asc. node	2064 Jun 01 21:13	6° \mathbb{M} 46'06		morning set	2065 May 14 11:18	15° \mathbb{M} 41'07	
				asc. node	2065 May 19 18:17	26° \mathbb{M} 55'00	
superior conj	2064 Jun 06 06:43	16° \mathbb{M} 22'40	0°45'00	max. Earth dist.	2065 May 20 14:35	28° \mathbb{M} 45'32	1.32274 AU
minimum elong	2064 Jun 06 04:54	16° \mathbb{M} 12'37	0°44'37		2065 May 21 04:13	0° \mathbb{M}	
max. Earth dist.	2064 Jun 06 03:12	16° \mathbb{M} 03'16	1.32190 AU				
	2064 Jun 12 12:57	0° \mathbb{M}		superior conj	2065 May 21 17:49	1° \mathbb{M} 14'28	0°20'49
evening rise	2064 Jun 13 03:50	1° \mathbb{M} 18'42		minimum elong	2065 May 21 16:53	1° \mathbb{M} 09'20	0°20'37
	2064 Jun 28 17:47	0° Ω		evening rise	2065 May 28 14:40	16° \mathbb{M} 10'34	
desc. node	2064 Jul 10 03:17	14° Ω 59'54			2065 Jun 04 11:29	0° \mathbb{M}	
evening max el	2064 Jul 12 11:27	17° Ω 21'42	26°26'23	evening max el	2065 Jun 24 05:23	28° \mathbb{M} 28'31	25°11'17
retrograde	2064 Jul 26 10:57	24° Ω 33'48			2065 Jun 25 21:36	0° Ω	
evening set	2064 Aug 02 01:42	22° Ω 44'24		desc. node	2065 Jun 27 00:17	0° Ω 55'20	
min. Earth dist.	2064 Aug 06 00:37	20° Ω 08'30	0.59686 AU	retrograde	2065 Jul 08 05:27	5° Ω 35'34	
inferior conj	2064 Aug 09 08:03	17° Ω 32'56	-4°47'43	evening set	2065 Jul 13 18:05	4° Ω 25'03	
minimum elong	2064 Aug 09 11:32	17° Ω 26'05	4°47'21	min. Earth dist.	2065 Jul 18 17:09	1° Ω 40'41	0.57671 AU
morning rise	2064 Aug 16 23:26	12° Ω 57'53			2065 Jul 21 04:30	30° \mathbb{R} \mathbb{M}	

inferior conj	2065 Jul 21 18:59	29°☿35'07	-4°58'06	evening max el	2066 Jun 05 19:19	9°☿03'38	23°38'26
minimum elong	2065 Jul 21 18:06	29°☿36'38	4°58'05	desc. node	2066 Jun 13 21:18	14°☿43'37	
morning rise	2065 Jul 29 20:42	25°☿22'16		retrograde	2066 Jun 19 11:28	15°☿54'33	
direct	2065 Aug 01 10:05	25°☿02'50		evening set	2066 Jun 23 12:48	15°☿18'26	
morning max el	2065 Aug 10 04:37	29°☿10'04	19°01'39	min. Earth dist.	2066 Jun 30 05:42	12°☿10'25	0.56015 AU
	2065 Aug 11 00:55	0°♊		inferior conj	2066 Jul 02 09:45	10°☿52'17	-4°28'48
asc. node	2065 Aug 15 17:27	5°♊52'13		minimum elong	2066 Jul 02 03:35	11°☿01'35	4°27'45
morning set	2065 Aug 26 22:19	25°♊54'15		morning rise	2066 Jul 10 20:59	6°☿55'58	
	2065 Aug 28 23:59	0°♊		direct	2066 Jul 13 15:00	6°☿37'00	
				morning max el	2066 Jul 23 20:56	11°☿21'57	20°06'24
superior conj	2065 Sep 04 06:56	12°♊19'45	1°42'09	asc. node	2066 Aug 02 14:31	24°☿19'02	
minimum elong	2065 Sep 04 08:40	12°♊28'02	1°42'05		2066 Aug 05 18:54	0°♋	
max. Earth dist.	2065 Sep 11 00:47	24°♊53'21	1.38723 AU	morning set	2066 Aug 11 02:38	10°♋27'21	
	2065 Sep 13 21:59	0°♋					
evening rise	2065 Sep 14 21:06	1°♋40'23		superior conj	2066 Aug 18 20:10	26°♋13'09	1°45'41
desc. node	2065 Sep 22 23:37	15°♋06'17		minimum elong	2066 Aug 18 20:06	26°♋12'51	1°45'41
	2065 Oct 02 20:01	0°♌			2066 Aug 20 17:41	0°♊	
evening max el	2065 Oct 20 09:44	22°♌00'32	24°36'22	max. Earth dist.	2066 Aug 24 06:02	6°♊49'24	1.36758 AU
retrograde	2065 Oct 31 20:53	28°♌41'59		evening rise	2066 Aug 28 03:02	14°♊02'34	
evening set	2065 Nov 06 09:03	26°♌23'31			2066 Sep 06 09:30	0°♋	
min. Earth dist.	2065 Nov 11 00:14	21°♌06'26	0.67497 AU	desc. node	2066 Sep 09 20:38	5°♋30'50	
inferior conj	2065 Nov 11 20:12	19°♌59'52	0°03'04		2066 Sep 27 15:10	0°♌	
minimum elong	2065 Nov 11 20:07	20°♌00'08	0°03'01	evening max el	2066 Oct 02 21:48	5°♌40'45	25°48'03
transit middle	2065 Nov 11 20:07	20°♌00'08	0°03'01	retrograde	2066 Oct 15 06:22	12°♌43'51	
transit begin	2065 Nov 11 17:25	20°♌09'08		evening set	2066 Oct 21 08:49	10°♌11'15	
transit end	2065 Nov 11 22:49	19°♌51'08		min. Earth dist.	2066 Oct 25 16:24	5°♌29'33	0.66856 AU
asc. node	2065 Nov 11 16:39	20°♌11'44		inferior conj	2066 Oct 26 23:18	3°♌51'41	-0°53'35
morning rise	2065 Nov 17 07:16	13°♌57'29		minimum elong	2066 Oct 27 00:42	3°♌47'15	0°52'59
direct	2065 Nov 21 00:11	12°♌38'37		asc. node	2066 Oct 29 13:41	0°♌43'25	
morning max el	2065 Nov 28 15:51	17°♌01'13	20°05'09		2066 Oct 30 06:03	30°♌	
	2065 Dec 08 21:22	0°♍		morning rise	2066 Nov 01 16:52	27°♌57'49	
desc. node	2065 Dec 19 22:50	16°♍25'47		direct	2066 Nov 04 22:48	26°♌57'06	
morning set	2065 Dec 25 13:37	25°♍02'39			2066 Nov 11 00:55	0°♌	
	2065 Dec 28 18:15	0°♎		morning max el	2066 Nov 11 22:15	0°♌51'18	19°06'52
max. Earth dist.	2066 Jan 05 10:00	12°♎04'38	1.43863 AU		2066 Dec 02 09:06	0°♍	
				morning set	2066 Dec 04 18:13	3°♍42'36	
superior conj	2066 Jan 10 22:13	20°♎59'05	-1°56'09	desc. node	2066 Dec 06 19:53	6°♍56'25	
minimum elong	2066 Jan 10 16:41	20°♎36'24	1°55'51	max. Earth dist.	2066 Dec 19 01:33	26°♍06'28	1.44865 AU
	2066 Jan 16 08:49	0°♏					
evening rise	2066 Jan 23 22:05	12°♏52'03		superior conj	2066 Dec 21 10:47	29°♍52'24	-1°28'12
	2066 Feb 03 00:40	0°♐		minimum elong	2066 Dec 21 01:55	29°♍17'21	1°27'19
asc. node	2066 Feb 07 15:59	6°♐51'42			2066 Dec 21 12:42	0°♎	
evening max el	2066 Feb 10 19:04	10°♐31'50	18°11'30	evening rise	2067 Jan 05 06:51	23°♎46'20	
retrograde	2066 Feb 17 06:01	13°♐56'59			2067 Jan 09 01:50	0°♏	
evening set	2066 Feb 20 02:56	13°♐14'39		evening max el	2067 Jan 25 07:09	23°♏55'39	18°33'12
inferior conj	2066 Feb 26 06:59	7°♐59'20	3°42'58	asc. node	2067 Jan 25 13:00	24°♏10'20	
minimum elong	2066 Feb 26 07:13	7°♐58'41	3°42'58	retrograde	2067 Jan 31 20:54	27°♏33'12	
min. Earth dist.	2066 Feb 28 23:29	5°♐06'55	0.62922 AU	evening set	2067 Feb 03 23:22	26°♏39'19	
morning rise	2066 Mar 04 10:28	1°♐57'16		inferior conj	2067 Feb 09 18:51	21°♏05'25	3°37'55
	2066 Mar 07 18:38	30°♑		minimum elong	2067 Feb 09 17:31	21°♏09'22	3°37'47
direct	2066 Mar 11 09:19	29°♑17'29		min. Earth dist.	2067 Feb 11 19:48	18°♑40'29	0.64682 AU
	2066 Mar 15 04:35	0°♒		morning rise	2067 Feb 15 11:10	14°♑57'00	
desc. node	2066 Mar 17 22:01	1°♒16'56		direct	2067 Feb 22 06:15	12°♑05'53	
morning max el	2066 Mar 25 07:48	7°♒13'27	27°47'14	desc. node	2067 Mar 04 19:03	17°♑11'43	
	2066 Apr 11 17:56	0°♓		morning max el	2067 Mar 07 17:06	19°♑55'20	27°17'03
morning set	2066 Apr 28 11:28	29°♓55'24			2067 Mar 16 08:28	0°♒	
	2066 Apr 28 12:23	0°♓			2067 Apr 04 18:35	0°♓	
max. Earth dist.	2066 May 03 21:22	11°♓09'47	1.32767 AU	morning set	2067 Apr 12 03:00	13°♓40'26	
				max. Earth dist.	2067 Apr 16 19:56	23°♓05'59	1.33697 AU
superior conj	2066 May 06 02:28	15°♓54'52	-0°05'39				
minimum elong	2066 May 06 02:44	15°♓56'19	0°05'35	superior conj	2067 Apr 20 06:46	0°♓17'47	-0°33'25
behind sun begin	2066 May 05 21:49	15°♓29'42		minimum elong	2067 Apr 20 08:27	0°♓26'40	0°33'04
behind sun end	2066 May 06 07:40	16°♓22'57			2067 Apr 20 03:24	0°♓	
asc. node	2066 May 06 15:18	17°♓04'16		asc. node	2067 Apr 23 12:21	7°♓10'07	
	2066 May 12 14:54	0°♔		evening rise	2067 Apr 27 13:34	15°♓45'51	
evening rise	2066 May 13 02:31	1°♔01'38			2067 May 04 17:40	0°♔	
	2066 May 29 04:33	0°♕		evening max el	2067 May 18 11:57	19°♔35'48	22°03'00

retrograde	2067 May 31 05:17	25° Π 52'13		evening max el	2068 Apr 29 13:53	0° Π 33'00	20°38'01
desc. node	2067 May 31 18:18	25° Π 51'33		retrograde	2068 May 10 18:24	5° Π 59'19	
evening set	2067 Jun 02 23:15	25° Π 35'26		evening set	2068 May 12 20:34	5° Π 48'42	
min. Earth dist.	2067 Jun 11 17:12	21° Π 51'15	0.55053 AU	desc. node	2068 May 17 15:20	4° Π 14'24	
inferior conj	2067 Jun 12 08:22	21° Π 29'58	-3°11'17	inferior conj	2068 May 22 02:17	1° Π 50'53	-1°17'52
minimum elong	2067 Jun 12 00:36	21° Π 40'52	3°08'59	minimum elong	2068 May 21 22:36	1° Π 56'11	1°16'32
morning rise	2067 Jun 21 03:31	17° Π 37'14		min. Earth dist.	2068 May 23 05:38	1° Π 11'33	0.55006 AU
direct	2067 Jun 24 04:49	17° Π 16'29			2068 May 25 09:09	30° \mathbb{R} 8	
morning max el	2067 Jul 06 01:45	22° Π 49'38	21°31'04	morning rise	2068 May 30 23:55	27° \mathbb{B} 41'53	
	2067 Jul 12 07:08	0° \mathfrak{C}		direct	2068 Jun 03 14:39	27° \mathbb{B} 13'46	
asc. node	2067 Jul 20 11:36	13° \mathfrak{C} 20'54			2068 Jun 12 06:15	0° Π	
morning set	2067 Jul 26 11:21	25° \mathfrak{C} 14'09		morning max el	2068 Jun 16 21:02	3° Π 38'01	23°09'54
	2067 Jul 28 18:02	0° Ω			2068 Jul 04 22:20	0° \mathfrak{C}	
				asc. node	2068 Jul 06 08:40	2° \mathfrak{C} 48'27	
superior conj	2067 Aug 02 19:03	10° Ω 35'45	1°41'44	morning set	2068 Jul 09 22:29	10° \mathfrak{C} 08'24	
minimum elong	2067 Aug 02 17:39	10° Ω 28'32	1°41'39				
max. Earth dist.	2067 Aug 06 18:06	18° Ω 42'44	1.35065 AU	superior conj	2068 Jul 17 00:25	25° \mathfrak{C} 17'39	1°31'43
evening rise	2067 Aug 11 02:52	27° Ω 16'16		minimum elong	2068 Jul 16 22:15	25° \mathfrak{C} 06'04	1°31'29
	2067 Aug 12 13:30	0° \mathbb{M}			2068 Jul 19 05:33	0° Ω	
desc. node	2067 Aug 27 17:39	25° \mathbb{M} 37'06		max. Earth dist.	2068 Jul 19 15:13	0° Ω 50'52	1.33741 AU
	2067 Aug 30 16:54	0° \mathfrak{L}		evening rise	2068 Jul 24 16:02	11° Ω 08'58	
evening max el	2067 Sep 15 10:06	19° \mathfrak{L} 17'44	26°44'36		2068 Aug 03 21:17	0° \mathbb{M}	
retrograde	2067 Sep 28 10:35	26° \mathfrak{L} 32'23		desc. node	2068 Aug 13 14:41	15° \mathbb{M} 17'04	
evening set	2067 Oct 05 02:11	23° \mathfrak{L} 50'27			2068 Aug 25 06:07	0° \mathfrak{L}	
min. Earth dist.	2067 Oct 09 02:36	19° \mathfrak{L} 45'24	0.65870 AU	evening max el	2068 Aug 27 21:57	2° \mathfrak{L} 41'24	27°18'50
inferior conj	2067 Oct 10 21:22	17° \mathfrak{L} 39'16	-1°52'03	retrograde	2068 Sep 10 09:13	9° \mathfrak{L} 59'58	
minimum elong	2067 Oct 11 00:22	17° \mathfrak{L} 30'25	1°50'51	evening set	2068 Sep 17 10:36	7° \mathfrak{L} 16'54	
asc. node	2067 Oct 16 10:46	12° \mathfrak{L} 14'53		min. Earth dist.	2068 Sep 21 04:41	3° \mathfrak{L} 47'32	0.64520 AU
morning rise	2067 Oct 16 23:10	11° \mathfrak{L} 57'05		inferior conj	2068 Sep 23 12:06	1° \mathfrak{L} 18'14	-2°50'08
direct	2067 Oct 19 20:19	11° \mathfrak{L} 10'55		minimum elong	2068 Sep 23 16:35	1° \mathfrak{L} 06'09	2°48'33
morning max el	2067 Oct 26 10:37	14° \mathfrak{L} 46'56	18°24'35		2068 Sep 24 17:31	30° \mathbb{R} \mathbb{M}	
	2067 Nov 06 11:50	0° \mathbb{M}		morning rise	2068 Sep 29 23:33	25° \mathbb{M} 50'51	
morning set	2067 Nov 15 01:04	13° \mathbb{M} 43'48		asc. node	2068 Oct 02 07:51	25° \mathbb{M} 15'58	
desc. node	2067 Nov 23 16:55	27° \mathbb{M} 36'01		direct	2068 Oct 02 14:16	25° \mathbb{M} 15'35	
	2067 Nov 25 05:13	0° \mathbb{X}		morning max el	2068 Oct 09 02:21	28° \mathbb{M} 42'37	17°59'14
					2068 Oct 10 07:21	0° \mathfrak{L}	
superior conj	2067 Nov 30 12:01	8° \mathbb{X} 20'09	-0°44'29	morning set	2068 Oct 26 12:41	25° \mathfrak{L} 09'42	
minimum elong	2067 Nov 30 06:18	7° \mathbb{X} 57'42	0°43'44		2068 Oct 29 09:39	0° \mathbb{M}	
max. Earth dist.	2067 Dec 01 20:37	10° \mathbb{X} 28'16	1.45149 AU				
	2067 Dec 14 07:18	0° \mathfrak{Z}		superior conj	2068 Nov 08 23:41	17° \mathbb{M} 24'04	0°04'02
evening rise	2067 Dec 16 16:13	3° \mathfrak{Z} 43'47		minimum elong	2068 Nov 09 00:09	17° \mathbb{M} 26'00	0°03'58
greatest brilliancy	2067 Dec 26 22:28	19° \mathfrak{Z} 49'35	-0.8m	behind sun begin	2068 Nov 08 14:01	16° \mathbb{M} 45'12	
	2068 Jan 02 18:03	0° \approx		behind sun end	2068 Nov 09 10:17	18° \mathbb{M} 06'44	
evening max el	2068 Jan 08 16:21	7° \approx 23'17	19°12'20	desc. node	2068 Nov 09 13:57	18° \mathbb{M} 21'26	
asc. node	2068 Jan 12 10:03	10° \approx 25'57		max. Earth dist.	2068 Nov 13 15:27	24° \mathbb{M} 49'56	1.44692 AU
retrograde	2068 Jan 15 16:41	11° \approx 23'51			2068 Nov 16 22:10	0° \mathbb{X}	
evening set	2068 Jan 19 01:40	10° \approx 17'26		evening rise	2068 Nov 25 06:39	12° \mathbb{X} 58'41	
inferior conj	2068 Jan 24 15:24	4° \approx 27'10	3°18'36		2068 Dec 06 10:41	0° \mathfrak{Z}	
minimum elong	2068 Jan 24 13:07	4° \approx 34'28	3°18'12	greatest brilliancy	2068 Dec 09 14:01	4° \mathfrak{Z} 40'12	-0.6m
min. Earth dist.	2068 Jan 26 01:08	2° \approx 39'18	0.66055 AU	evening max el	2068 Dec 21 20:56	20° \mathfrak{Z} 52'44	20°07'04
	2068 Jan 28 06:28	30° \mathbb{R} \mathfrak{Z}		asc. node	2068 Dec 29 07:06	25° \mathfrak{Z} 24'16	
morning rise	2068 Jan 30 00:18	28° \mathfrak{Z} 15'14		retrograde	2068 Dec 29 14:32	25° \mathfrak{Z} 24'48	
direct	2068 Feb 05 09:29	25° \mathfrak{Z} 26'35		evening set	2069 Jan 02 07:33	24° \mathfrak{Z} 04'34	
	2068 Feb 14 22:16	0° \approx		inferior conj	2069 Jan 07 17:48	18° \mathfrak{Z} 00'47	2°48'33
morning max el	2068 Feb 18 02:52	2° \approx 58'09	26°18'08	minimum elong	2069 Jan 07 15:11	18° \mathfrak{Z} 09'37	2°47'51
desc. node	2068 Feb 19 16:06	4° \approx 35'00		min. Earth dist.	2069 Jan 08 13:49	16° \mathfrak{Z} 53'28	0.67028 AU
	2068 Mar 09 14:37	0° \mathbb{X}		morning rise	2069 Jan 12 22:36	11° \mathfrak{Z} 47'23	
morning set	2068 Mar 25 06:05	26° \mathbb{X} 43'52		direct	2069 Jan 18 18:25	9° \mathfrak{Z} 11'42	
	2068 Mar 26 23:36	0° \mathbb{Y}		morning max el	2069 Jan 30 11:41	16° \mathfrak{Z} 11'21	24°59'38
max. Earth dist.	2068 Mar 29 07:18	4° \mathbb{Y} 29'06	1.35080 AU	desc. node	2069 Feb 05 13:09	23° \mathfrak{Z} 01'36	
					2069 Feb 10 22:16	0° \approx	
superior conj	2068 Apr 03 04:17	14° \mathbb{Y} 15'04	-1°01'16		2069 Mar 02 13:16	0° \mathbb{X}	
minimum elong	2068 Apr 03 07:22	14° \mathbb{Y} 30'53	1°00'43	morning set	2069 Mar 07 15:44	8° \mathbb{X} 51'55	
asc. node	2068 Apr 09 09:23	27° \mathbb{Y} 07'32		max. Earth dist.	2069 Mar 11 07:30	15° \mathbb{X} 30'40	1.36887 AU
evening rise	2068 Apr 10 21:45	0° \mathbb{B} 15'38					
	2068 Apr 10 18:43	0° \mathbb{B}		superior conj	2069 Mar 17 16:04	27° \mathbb{X} 38'58	-1°27'24
	2068 Apr 29 00:35	0° Π		minimum elong	2069 Mar 17 20:11	27° \mathbb{X} 59'14	1°26'50

	2069 Mar 18 20:40	0°♿		evening rise	2070 Mar 09 20:12	28°♿05'11	
evening rise	2069 Mar 26 00:52	14°♿24'31			2070 Mar 10 19:55	0°♿	
asc. node	2069 Mar 27 06:25	16°♿52'11		asc. node	2070 Mar 14 03:27	6°♿18'52	
	2069 Apr 03 06:13	0°♿		evening max el	2070 Mar 26 03:53	24°♿24'17	18°42'56
evening max el	2069 Apr 12 03:41	12°♿09'36	19°30'34	retrograde	2070 Apr 03 04:11	28°♿18'46	
retrograde	2069 Apr 21 14:55	16°♿44'05		evening set	2070 Apr 05 10:49	28°♿01'02	
evening set	2069 Apr 23 16:04	16°♿32'11		inferior conj	2070 Apr 13 05:16	23°♿38'35	2°10'57
inferior conj	2069 May 02 06:08	12°♿26'59	0°38'54	minimum elong	2070 Apr 13 09:13	23°♿31'11	2°09'50
minimum elong	2069 May 02 07:46	12°♿24'21	0°38'19	min. Earth dist.	2070 Apr 16 13:22	21°♿10'01	0.57554 AU
desc. node	2069 May 04 12:21	10°♿59'57		morning rise	2070 Apr 21 04:29	18°♿24'12	
min. Earth dist.	2069 May 04 20:08	10°♿47'45	0.55904 AU	desc. node	2070 Apr 21 09:22	18°♿18'46	
morning rise	2069 May 10 20:41	7°♿46'00		direct	2070 Apr 26 18:58	17°♿06'37	
direct	2069 May 15 09:42	6°♿59'21		morning max el	2070 May 11 03:30	24°♿39'48	26°20'24
morning max el	2069 May 29 11:40	14°♿05'51	24°51'23		2070 May 16 01:05	0°♿	
	2069 Jun 10 23:27	0°♿			2070 Jun 03 23:36	0°♿	
asc. node	2069 Jun 23 05:42	22°♿34'36		morning set	2070 Jun 08 21:18	9°♿57'33	
morning set	2069 Jun 24 10:20	25°♿04'35		asc. node	2070 Jun 10 02:44	12°♿33'38	
	2069 Jun 26 17:37	0°♿					
				superior conj	2070 Jun 15 21:15	25°♿08'30	0°57'37
superior conj	2069 Jul 01 09:48	10°♿10'46	1°16'44	minimum elong	2070 Jun 15 19:05	24°♿56'35	0°57'13
minimum elong	2069 Jul 01 07:24	9°♿57'39	1°16'22	max. Earth dist.	2070 Jun 16 07:02	26°♿02'21	1.32310 AU
max. Earth dist.	2069 Jul 02 20:26	13°♿18'52	1.32827 AU		2070 Jun 18 02:23	0°♿	
evening rise	2069 Jul 08 14:46	25°♿29'41		evening rise	2070 Jun 22 20:04	10°♿09'15	
	2069 Jul 10 20:26	0°♿			2070 Jul 03 03:17	0°♿	
	2069 Jul 28 09:00	0°♿		desc. node	2070 Jul 18 08:43	22°♿27'41	
desc. node	2069 Jul 31 11:43	4°♿19'07		evening max el	2070 Jul 23 12:38	27°♿59'02	26°57'05
evening max el	2069 Aug 10 07:35	15°♿39'01	27°24'20		2070 Jul 25 19:03	0°♿	
retrograde	2069 Aug 24 01:43	22°♿56'19		retrograde	2070 Aug 06 10:49	5°♿12'35	
evening set	2069 Aug 31 06:41	20°♿23'55		evening set	2070 Aug 13 10:06	3°♿04'17	
min. Earth dist.	2069 Sep 03 20:58	17°♿24'51	0.62829 AU	min. Earth dist.	2070 Aug 17 02:51	0°♿24'21	0.60877 AU
inferior conj	2069 Sep 06 16:40	14°♿41'20	-3°44'26		2070 Aug 17 14:40	30°♿	
minimum elong	2069 Sep 06 22:00	14°♿28'24	3°42'58	inferior conj	2070 Aug 20 07:48	27°♿40'52	-4°29'24
morning rise	2069 Sep 13 14:45	9°♿31'57		minimum elong	2070 Aug 20 12:36	27°♿30'36	4°28'33
direct	2069 Sep 16 01:40	9°♿04'11		morning rise	2070 Aug 27 16:54	22°♿52'18	
asc. node	2069 Sep 19 04:54	9°♿50'37		direct	2070 Aug 30 02:50	22°♿29'11	
morning max el	2069 Sep 22 18:25	12°♿30'31	17°51'35	asc. node	2070 Sep 06 01:56	25°♿49'14	
	2069 Oct 04 14:46	0°♿		morning max el	2070 Sep 06 07:45	26°♿03'09	18°02'44
morning set	2069 Oct 08 23:38	7°♿42'31			2070 Sep 09 17:17	0°♿	
				morning set	2070 Sep 22 03:46	21°♿04'35	
					2070 Sep 26 23:34	0°♿	
superior conj	2069 Oct 20 12:03	27°♿41'36	0°46'16				
minimum elong	2069 Oct 20 16:09	27°♿58'50	0°45'43	superior conj	2070 Oct 02 03:04	9°♿17'16	1°17'05
	2069 Oct 21 21:06	0°♿		minimum elong	2070 Oct 02 07:25	9°♿36'30	1°16'36
desc. node	2069 Oct 27 11:00	9°♿08'56		max. Earth dist.	2070 Oct 09 17:48	22°♿23'04	1.41900 AU
max. Earth dist.	2069 Oct 27 06:59	8°♿52'40	1.43560 AU	desc. node	2070 Oct 14 08:03	29°♿55'07	
evening rise	2069 Nov 04 15:11	22°♿03'56			2070 Oct 14 09:15	0°♿	
	2069 Nov 09 19:23	0°♿		evening rise	2070 Oct 15 10:51	1°♿42'43	
	2069 Nov 30 22:54	0°♿			2070 Nov 03 06:51	0°♿	
evening max el	2069 Dec 04 19:58	4°♿23'08	21°14'43	evening max el	2070 Nov 17 13:46	17°♿55'30	22°31'17
retrograde	2069 Dec 13 12:07	9°♿32'06		retrograde	2070 Nov 27 07:44	23°♿43'00	
asc. node	2069 Dec 16 04:08	8°♿52'37		evening set	2070 Dec 01 22:30	21°♿50'53	
evening set	2069 Dec 17 15:03	7°♿56'36		asc. node	2070 Dec 03 01:09	20°♿49'46	
inferior conj	2069 Dec 22 23:40	1°♿42'34	2°10'05	inferior conj	2070 Dec 07 07:04	15°♿30'07	1°24'52
minimum elong	2069 Dec 22 21:14	1°♿51'00	2°09'15	minimum elong	2070 Dec 07 05:15	15°♿36'25	1°24'08
min. Earth dist.	2069 Dec 23 07:31	1°♿15'31	0.67617 AU	min. Earth dist.	2070 Dec 07 03:46	15°♿41'32	0.67843 AU
	2069 Dec 24 05:35	30°♿		morning rise	2070 Dec 12 11:50	9°♿19'41	
morning rise	2069 Dec 28 03:14	25°♿29'37		direct	2070 Dec 17 01:59	7°♿26'18	
direct	2070 Jan 02 08:13	23°♿13'35		morning max el	2070 Dec 26 08:06	12°♿53'01	22°04'37
morning max el	2070 Jan 12 20:19	29°♿28'57	23°31'53		2071 Jan 08 22:20	0°♿	
	2070 Jan 13 08:28	0°♿		desc. node	2071 Jan 10 07:14	1°♿56'51	
desc. node	2070 Jan 23 10:11	12°♿13'05		morning set	2071 Jan 28 06:56	29°♿19'45	
	2070 Feb 04 18:16	0°♿			2071 Jan 28 16:54	0°♿	
morning set	2070 Feb 17 01:44	19°♿47'45		max. Earth dist.	2071 Feb 02 23:44	8°♿41'46	1.41128 AU
max. Earth dist.	2070 Feb 21 02:06	26°♿42'57	1.38987 AU				
	2070 Feb 22 22:40	0°♿		superior conj	2071 Feb 10 18:09	22°♿05'32	-2°02'46
superior conj	2070 Feb 28 14:18	10°♿19'43	-1°49'08	minimum elong	2071 Feb 10 20:21	22°♿15'15	2°02'41
minimum elong	2070 Feb 28 18:26	10°♿39'04	1°48'46		2071 Feb 15 03:34	0°♿	

evening rise	2071 Feb 21 04:26	11° K 09'41		minimum elong	2072 Jan 22 20:08	2° \approx 34'53	2°03'27
asc. node	2071 Mar 01 00:28	25° K 21'04		evening rise	2072 Feb 03 21:37	23° \approx 30'09	
	2071 Mar 03 21:13	0° Y			2072 Feb 07 13:37	0° K	
evening max el	2071 Mar 09 11:20	7° Y 08'30	18°15'17	asc. node	2072 Feb 15 21:30	13° K 51'25	
retrograde	2071 Mar 16 12:19	10° Y 39'41		evening max el	2072 Feb 20 22:51	20° K 13'55	18°07'18
evening set	2071 Mar 19 01:00	10° Y 13'23		retrograde	2072 Feb 27 12:06	23° K 37'35	
inferior conj	2071 Mar 26 01:33	5° Y 29'57	3°09'18	evening set	2072 Mar 01 06:02	23° K 01'23	
minimum elong	2071 Mar 26 04:50	5° Y 22'47	3°08'41	inferior conj	2072 Mar 07 16:27	17° K 57'04	3°37'33
min. Earth dist.	2071 Mar 29 11:14	2° Y 33'03	0.59626 AU	minimum elong	2072 Mar 07 17:49	17° K 53'38	3°37'26
	2071 Apr 01 23:32	30° K K		min. Earth dist.	2072 Mar 10 16:46	14° K 56'42	0.61767 AU
morning rise	2071 Apr 02 06:18	29° K 49'58		morning rise	2072 Mar 14 04:09	12° K 00'45	
desc. node	2071 Apr 08 06:23	27° K 56'24		direct	2072 Mar 21 01:10	9° K 34'35	
direct	2071 Apr 08 16:53	27° K 55'52		desc. node	2072 Mar 25 03:25	10° K 21'29	
	2071 Apr 15 17:39	0° Y		morning max el	2072 Apr 04 04:22	17° K 29'28	27°49'05
morning max el	2071 Apr 23 00:42	5° Y 43'29	27°22'37		2072 Apr 14 14:27	0° Y	
	2071 May 11 02:09	0° B			2072 May 02 18:53	0° B	
morning set	2071 May 24 05:39	24° B 40'24		morning set	2072 May 07 09:29	9° B 07'06	
	2071 May 26 18:07	0° II		max. Earth dist.	2072 May 13 05:25	21° B 25'20	1.32436 AU
asc. node	2071 May 27 23:46	2° II 39'43		asc. node	2072 May 13 20:48	22° B 48'48	
superior conj	2071 May 31 08:54	10° II 03'30	0°35'04	superior conj	2072 May 14 19:09	24° B 50'25	0°09'50
minimum elong	2071 May 31 07:25	9° II 55'16	0°34'46	minimum elong	2072 May 14 18:42	24° B 47'55	0°09'44
max. Earth dist.	2071 May 30 19:19	8° II 48'48	1.32177 AU	behind sun begin	2072 May 14 14:37	24° B 25'43	
evening rise	2071 Jun 07 05:28	24° II 58'16		behind sun end	2072 May 14 22:46	25° B 10'09	
	2071 Jun 09 15:27	0° E			2072 May 17 03:49	0° II	
	2071 Jun 27 05:00	0° O		evening rise	2072 May 21 16:58	9° II 50'06	
desc. node	2071 Jul 05 05:42	9° O 19'44			2072 Jun 01 02:06	0° E	
evening max el	2071 Jul 05 10:44	9° O 31'47	25°57'34	evening max el	2072 Jun 16 02:09	20° E 20'57	24°32'59
retrograde	2071 Jul 19 10:44	16° O 41'26		desc. node	2072 Jun 21 02:42	24° E 25'02	
evening set	2071 Jul 25 16:06	15° O 08'23		retrograde	2072 Jun 29 23:53	27° E 23'00	
min. Earth dist.	2071 Jul 29 23:13	12° O 31'07	0.58814 AU	evening set	2072 Jul 04 22:22	26° E 28'12	
inferior conj	2071 Aug 02 05:53	10° O 06'10	-4°56'04	min. Earth dist.	2072 Jul 10 13:11	23° E 35'36	0.56905 AU
minimum elong	2071 Aug 02 07:48	10° O 02'36	4°55'58	inferior conj	2072 Jul 13 08:03	21° E 48'22	-4°51'20
morning rise	2071 Aug 10 01:42	5° O 40'30		minimum elong	2072 Jul 13 04:48	21° E 53'36	4°51'03
direct	2071 Aug 12 13:26	5° O 19'59		morning rise	2072 Jul 21 13:57	17° E 43'59	
morning max el	2071 Aug 20 15:10	9° O 11'19	18°34'04	direct	2072 Jul 24 05:18	17° E 24'51	
asc. node	2071 Aug 23 22:59	12° O 56'26		morning max el	2072 Aug 02 13:43	21° E 46'00	19°26'41
	2071 Sep 03 05:09	0° P			2072 Aug 09 05:08	0° O	
morning set	2071 Sep 05 20:02	5° P 01'41		asc. node	2072 Aug 09 20:02	0° O 57'35	
				morning set	2072 Aug 19 20:46	19° O 23'39	
superior conj	2071 Sep 14 16:19	21° P 58'33	1°36'02		2072 Aug 25 03:33	0° P	
minimum elong	2071 Sep 14 19:08	22° P 11'45	1°35'50	superior conj	2072 Aug 27 22:12	5° P 29'46	1°44'40
	2071 Sep 19 01:25	0° A		minimum elong	2072 Aug 27 23:07	5° P 34'19	1°44'39
max. Earth dist.	2071 Sep 21 23:50	5° A 11'46	1.39915 AU	max. Earth dist.	2072 Sep 03 03:40	17° P 21'05	1.37862 AU
evening rise	2071 Sep 26 04:28	12° A 22'18		evening rise	2072 Sep 06 21:57	24° P 08'34	
desc. node	2071 Oct 01 05:04	20° A 36'18			2072 Sep 10 07:00	0° A	
	2071 Oct 07 05:43	0° M		desc. node	2072 Sep 17 02:04	11° A 08'15	
	2071 Oct 29 16:25	0° X			2072 Sep 29 22:43	0° M	
evening max el	2071 Oct 31 03:41	1° X 30'51	23°51'19	evening max el	2072 Oct 12 15:43	15° M 09'09	25°08'09
retrograde	2071 Nov 11 00:09	7° X 54'16		retrograde	2072 Oct 24 12:27	22° M 01'14	
evening set	2071 Nov 16 04:20	5° X 45'00		evening set	2072 Oct 30 06:52	19° M 36'01	
asc. node	2071 Nov 19 22:11	1° X 35'49		min. Earth dist.	2072 Nov 03 18:38	14° M 34'04	0.67268 AU
min. Earth dist.	2071 Nov 21 00:16	0° X 08'38	0.67722 AU	inferior conj	2072 Nov 04 19:17	13° M 13'32	-0°20'40
	2071 Nov 21 02:49	30° K M		minimum elong	2072 Nov 04 19:48	13° M 11'50	0°20'26
inferior conj	2071 Nov 21 14:11	29° M 21'20	0°34'12	asc. node	2072 Nov 05 19:15	11° M 55'53	
minimum elong	2071 Nov 21 13:23	29° M 24'05	0°33'51	morning rise	2072 Nov 10 08:55	7° M 14'43	
morning rise	2071 Nov 26 22:24	23° M 15'33		direct	2072 Nov 13 20:51	6° M 04'09	
direct	2071 Nov 30 22:36	21° M 44'45		morning max el	2072 Nov 21 04:49	10° M 13'15	19°38'30
morning max el	2071 Dec 09 02:31	26° M 27'44	20°45'18	greatest brilliancy	2072 Dec 04 10:58	27° M 50'45	-0.7m
	2071 Dec 12 07:18	0° X			2072 Dec 05 21:28	0° X	
desc. node	2071 Dec 28 04:17	22° X 03'55		desc. node	2072 Dec 14 01:18	12° X 27'08	
	2072 Jan 02 10:23	0° B		morning set	2072 Dec 16 07:22	15° X 55'41	
morning set	2072 Jan 07 10:36	7° B 43'19			2072 Dec 25 08:07	0° B	
max. Earth dist.	2072 Jan 16 05:01	21° B 38'25	1.43005 AU	max. Earth dist.	2072 Dec 28 17:17	5° B 20'26	1.44372 AU
	2072 Jan 21 07:07	0° \approx					
superior conj	2072 Jan 22 22:27	2° \approx 44'37	-2°03'30	superior conj	2073 Jan 02 00:15	12° B 11'36	-1°46'37

minimum elong	2073 Jan 01 16:40	11°  41'08	1°46'03	max. Earth dist.	2073 Dec 11 10:13	19°  31'16	1.45079 AU
	2073 Jan 12 20:33	0° 					
evening rise	2073 Jan 15 19:18	4°  57'18		superior conj	2073 Dec 12 05:42	20°  47'51	-1°11'04
	2073 Jan 31 10:48	0° 		minimum elong	2073 Dec 11 21:24	20°  15'13	1°10'06
asc. node	2073 Feb 01 18:33	1°  39'24			2073 Dec 18 01:48	0° 	
evening max el	2073 Feb 03 11:25	3°  32'13	18°18'27	evening rise	2073 Dec 27 18:05	15°  32'45	
retrograde	2073 Feb 09 22:42	7°  01'38			2074 Jan 05 19:28	0° 	
evening set	2073 Feb 12 21:49	6°  14'35		evening max el	2074 Jan 17 22:32	16°  57'58	18°47'47
inferior conj	2073 Feb 18 21:49	0°  51'00	3°42'48	asc. node	2074 Jan 19 15:35	18°  32'58	
minimum elong	2073 Feb 18 21:20	0°  52'24	3°42'48	retrograde	2074 Jan 24 16:03	20°  44'17	
	2073 Feb 19 15:52	30° 		evening set	2074 Jan 27 21:02	19°  45'24	
min. Earth dist.	2073 Feb 21 07:47	28°  08'31	0.63713 AU	inferior conj	2074 Feb 02 13:47	14°  04'25	3°31'10
morning rise	2073 Feb 24 20:03	24°  45'25		minimum elong	2074 Feb 02 11:59	14°  09'59	3°30'57
direct	2073 Mar 03 18:01	21°  59'05		min. Earth dist.	2074 Feb 04 08:15	11°  54'08	0.65321 AU
desc. node	2073 Mar 12 00:28	25°  09'37		morning rise	2074 Feb 08 02:31	7°  54'02	
morning max el	2073 Mar 17 12:33	29°  54'09	27°38'22	direct	2074 Feb 14 18:01	5°  02'05	
	2073 Mar 17 14:53	0° 		desc. node	2074 Feb 26 21:32	11°  45'25	
	2073 Apr 08 13:38	0° 		morning max el	2074 Feb 27 22:18	12°  46'18	26°54'48
morning set	2073 Apr 21 06:22	23°  09'52			2074 Mar 13 19:12	0° 	
	2073 Apr 24 15:16	0° 			2074 Apr 01 04:08	0° 	
max. Earth dist.	2073 Apr 26 09:12	3°  38'32	1.33106 AU	morning set	2074 Apr 04 17:08	6°  38'43	
				max. Earth dist.	2074 Apr 09 02:54	15°  18'43	1.34226 AU
superior conj	2073 Apr 29 02:11	9°  23'34	-0°17'20				
minimum elong	2073 Apr 29 03:03	9°  28'09	0°17'09	superior conj	2074 Apr 13 03:55	23°  36'23	-0°45'20
asc. node	2073 Apr 30 17:52	12°  56'45		minimum elong	2074 Apr 13 06:13	23°  48'21	0°44'53
evening rise	2073 May 06 04:42	24°  38'23			2074 Apr 16 04:58	0° 	
	2073 May 08 18:34	0° 		asc. node	2074 Apr 17 14:55	2°  59'20	
	2073 May 27 20:04	0° 		evening rise	2074 Apr 20 14:45	9°  16'50	
evening max el	2073 May 28 16:03	0°  49'44	22°57'13		2074 May 01 14:43	0° 	
desc. node	2073 Jun 07 23:42	7°  08'06		evening max el	2074 May 10 12:08	11°  30'03	21°25'04
retrograde	2073 Jun 11 00:53	7°  29'20		retrograde	2074 May 22 15:25	17°  26'14	
evening set	2073 Jun 14 11:19	7°  03'25		evening set	2074 May 25 00:11	17°  13'27	
min. Earth dist.	2073 Jun 22 01:01	3°  41'28	0.55494 AU	desc. node	2074 May 25 20:44	17°  02'48	
inferior conj	2073 Jun 23 14:58	2°  46'34	-4°01'41	inferior conj	2074 Jun 03 09:51	13°  13'34	-2°25'53
minimum elong	2073 Jun 23 07:24	2°  57'33	3°59'59	minimum elong	2074 Jun 03 03:17	13°  22'47	2°23'42
	2073 Jun 28 21:50	30° 		min. Earth dist.	2074 Jun 03 13:08	13°  08'58	0.54906 AU
morning rise	2073 Jul 02 05:56	28°  15'45		morning rise	2074 Jun 12 06:56	9°  15'57	
direct	2073 Jul 05 02:18	28°  13'45		direct	2074 Jun 15 12:50	8°  53'00	
	2073 Jul 10 21:41	0° 		morning max el	2074 Jun 28 01:35	14°  49'08	22°12'00
morning max el	2073 Jul 16 01:15	3°  39'34	20°40'23		2074 Jul 09 15:40	0° 	
asc. node	2073 Jul 27 17:07	19°  40'19		asc. node	2074 Jul 14 14:10	8°  53'49	
	2073 Aug 02 03:20	0° 		morning set	2074 Jul 19 13:10	18°  53'27	
morning set	2073 Aug 04 03:13	4°  03'15			2074 Jul 24 19:00	0° 	
superior conj	2073 Aug 11 16:01	19°  03'17	1°44'51	superior conj	2074 Jul 26 17:59	4°  08'54	1°38'10
minimum elong	2073 Aug 11 15:20	19°  03'46	1°44'49	minimum elong	2074 Jul 26 16:12	3°  05'30	1°38'01
max. Earth dist.	2073 Aug 16 10:58	29°  01'44	1.35985 AU	max. Earth dist.	2074 Jul 30 02:34	11°  08'39	1.34447 AU
	2073 Aug 16 20:53	0° 		evening rise	2074 Aug 03 18:07	20°  02'12	
evening rise	2073 Aug 20 12:06	6°  19'43			2074 Aug 08 20:27	0° 	
	2073 Sep 03 00:54	0° 		desc. node	2074 Aug 21 20:07	21°  02'02	
desc. node	2073 Sep 03 23:05	1°  26'00			2074 Aug 27 23:28	0° 	
evening max el	2073 Sep 25 03:43	28°  48'45	26°14'23	evening max el	2074 Sep 07 16:04	12°  21'42	27°02'26
	2073 Sep 26 10:02	0° 		retrograde	2074 Sep 20 22:02	19°  03'06	
retrograde	2073 Oct 07 20:01	5°  15'58		evening set	2074 Sep 27 18:09	16°  05'45	
evening set	2073 Oct 14 04:14	3°  12'19		min. Earth dist.	2074 Oct 01 15:46	13°  05'54	0.65334 AU
	2073 Oct 17 10:57	30° 		inferior conj	2074 Oct 03 15:46	10°  49'11	-2°16'53
min. Earth dist.	2073 Oct 18 08:37	28°  55'09	0.66476 AU	minimum elong	2074 Oct 03 19:26	10°  43'44	2°15'29
inferior conj	2073 Oct 19 20:31	27°  04'29	-1°18'16	morning rise	2074 Oct 09 21:30	5°  12'37	
minimum elong	2073 Oct 19 22:36	26°  58'06	1°17'24	asc. node	2074 Oct 10 13:21	4°  55'22	
asc. node	2073 Oct 23 16:18	22°  48'04		direct	2074 Oct 12 15:33	4°  31'33	
morning rise	2073 Oct 25 17:25	21°  15'15		morning max el	2074 Oct 19 04:11	8°  03'00	18°11'39
direct	2073 Oct 28 19:12	20°  21'22			2074 Nov 03 05:12	0° 	
morning max el	2073 Nov 04 14:07	24°  07'01	18°46'51	morning set	2074 Nov 06 17:25	5°  14'46	03'03
	2073 Nov 09 11:25	0° 		desc. node	2074 Nov 17 19:26	23°  14'44	42'03
morning set	2073 Nov 25 21:54	25°					
	2073 Nov 29 00:07	0°		superior conj	2074 Nov 21 08:53	29° 12'24	-0°23'46
desc. node	2073 Nov 30 22:22	3° 02'12		minimum elong	2074 Nov 21 05:50	29° 12'20	0°23'21

	2074 Nov 21 17:53	0°♊		superior conj	2075 Nov 01 05:56	8°♎56'14	0°23'11
max. Earth dist.	2074 Nov 24 05:15	3°♊54'12	1.45047 AU	minimum elong	2075 Nov 01 08:25	9°♎06'24	0°22'49
evening rise	2074 Dec 07 18:20	25°♊03'19		desc. node	2075 Nov 04 16:27	14°♎31'06	
	2074 Dec 10 22:42	0°♋		max. Earth dist.	2075 Nov 06 23:27	18°♎11'27	1.44289 AU
greatest brilliancy	2074 Dec 20 02:03	14°♋03'54	-0.7m		2075 Nov 14 11:44	0°♊	
	2074 Dec 31 19:35	0°♌		evening rise	2075 Nov 17 04:12	4°♊09'06	
evening max el	2075 Jan 01 06:02	0°♌27'25	19°33'52		2075 Dec 04 10:43	0°♋	
asc. node	2075 Jan 06 12:37	4°♌17'55		evening max el	2075 Dec 15 08:22	13°♋57'39	20°34'30
retrograde	2075 Jan 08 12:53	4°♌40'07		retrograde	2075 Dec 23 10:47	18°♋44'26	
evening set	2075 Jan 12 01:07	3°♌28'01		asc. node	2075 Dec 24 09:39	18°♋39'22	
	2075 Jan 15 14:35	30°♌♋		evening set	2075 Dec 27 07:54	17°♋17'43	
inferior conj	2075 Jan 17 13:09	27°♋31'57	3°07'00	inferior conj	2076 Jan 01 17:15	11°♋09'12	2°33'10
minimum elong	2075 Jan 17 10:39	27°♋40'06	3°06'27	minimum elong	2076 Jan 01 14:39	11°♋18'05	2°32'23
min. Earth dist.	2075 Jan 18 16:56	26°♋01'00	0.66526 AU	min. Earth dist.	2076 Jan 02 07:52	10°♋19'24	0.67328 AU
morning rise	2075 Jan 22 19:57	21°♋19'18		morning rise	2076 Jan 06 21:14	4°♋56'03	
direct	2075 Jan 28 23:54	18°♋34'51		direct	2076 Jan 12 10:53	2°♋28'16	
morning max el	2075 Feb 10 07:30	25°♋54'09	25°46'25	morning max el	2076 Jan 23 15:55	9°♋09'25	24°22'54
desc. node	2075 Feb 13 18:36	29°♋38'34		desc. node	2076 Jan 31 15:39	18°♋26'08	
	2075 Feb 14 02:03	0°♌			2076 Feb 09 02:25	0°♌	
	2075 Mar 07 08:18	0°♍			2076 Feb 28 00:01	0°♍	
morning set	2075 Mar 18 13:32	19°♍21'01		morning set	2076 Feb 28 13:51	1°♍00'14	
max. Earth dist.	2075 Mar 22 09:02	26°♍29'40	1.35803 AU	max. Earth dist.	2076 Mar 03 06:20	7°♍33'17	1.37765 AU
	2075 Mar 24 04:38	0°♎					
superior conj	2075 Mar 27 21:46	7°♎21'27	-1°12'42	superior conj	2076 Mar 10 04:19	20°♍28'35	-1°37'21
minimum elong	2075 Mar 28 01:23	7°♎39'35	1°12'07	minimum elong	2076 Mar 10 08:37	20°♍49'18	1°36'50
asc. node	2075 Apr 04 11:57	22°♎52'21			2076 Mar 15 01:08	0°♎	
evening rise	2075 Apr 04 21:07	23°♎39'08		evening rise	2076 Mar 18 21:17	7°♎37'19	
	2075 Apr 08 00:59	0°♏		asc. node	2076 Mar 21 08:58	12°♎30'16	
evening max el	2075 Apr 22 19:16	22°♏44'23	20°06'58		2076 Mar 31 14:39	0°♏	
retrograde	2075 May 03 05:40	27°♏47'16		evening max el	2076 Apr 04 13:45	4°♏37'37	19°07'43
evening set	2075 May 05 06:17	27°♏36'42		retrograde	2076 Apr 13 08:45	8°♏53'19	
desc. node	2075 May 12 17:45	24°♏31'41		evening set	2076 Apr 15 12:00	8°♏39'17	
inferior conj	2075 May 14 06:24	23°♏37'40	-0°26'44	inferior conj	2076 Apr 23 17:43	4°♏27'05	1°21'58
minimum elong	2075 May 14 05:09	23°♏39'31	0°26'15	minimum elong	2076 Apr 23 20:47	4°♏21'49	1°20'57
min. Earth dist.	2075 May 16 02:18	22°♏32'15	0.55284 AU	min. Earth dist.	2076 Apr 26 17:25	2°♏25'14	0.56538 AU
morning rise	2075 May 23 02:17	19°♏16'29		desc. node	2076 Apr 28 14:47	1°♏14'23	
direct	2075 May 27 01:56	18°♏41'51			2076 Apr 30 23:27	30°♎♎	
morning max el	2075 Jun 09 17:59	25°♏25'27	23°53'32	morning rise	2076 May 02 02:34	29°♎31'36	
	2075 Jun 14 00:47	0°♐		direct	2076 May 07 02:29	28°♎33'22	
asc. node	2075 Jul 01 11:14	28°♐30'15			2076 May 13 05:29	0°♏	
	2075 Jul 02 04:47	0°♑		morning max el	2076 May 21 08:26	5°♏52'09	25°31'45
morning set	2075 Jul 04 00:47	3°♑49'07			2076 Jun 07 21:25	0°♐	
superior conj	2075 Jul 11 01:18	18°♑56'12	1°25'54	asc. node	2076 Jun 17 08:16	18°♐22'28	
minimum elong	2075 Jul 10 22:58	18°♑43'37	1°25'37	morning set	2076 Jun 17 12:27	18°♐44'34	
max. Earth dist.	2075 Jul 13 03:35	23°♑26'07	1.33308 AU		2076 Jun 22 17:29	0°♑	
	2075 Jul 16 06:29	0°♒		superior conj	2076 Jun 24 11:45	3°♑51'40	1°09'03
evening rise	2075 Jul 18 11:47	4°♒32'07		minimum elong	2076 Jun 24 09:24	3°♑38'44	1°08'41
	2075 Aug 01 13:09	0°♓		max. Earth dist.	2076 Jun 25 11:40	6°♑02'26	1.32563 AU
desc. node	2075 Aug 08 17:06	10°♓47'05		evening rise	2076 Jul 01 13:37	19°♑01'33	
evening max el	2075 Aug 21 03:28	25°♓36'18	27°25'03		2076 Jul 07 02:15	0°♒	
	2075 Aug 26 13:23	0°♔		desc. node	2076 Jul 25 14:06	29°♒28'26	
retrograde	2075 Sep 03 17:53	2°♔53'51			2076 Jul 26 00:02	0°♓	
evening set	2075 Sep 10 21:42	0°♔14'04		evening max el	2076 Aug 02 11:24	8°♓18'54	27°16'48
	2075 Sep 11 05:08	30°♓♓		retrograde	2076 Aug 16 07:05	15°♓34'16	
min. Earth dist.	2075 Sep 14 13:52	26°♓58'22	0.63841 AU	evening set	2076 Aug 23 11:13	13°♓10'18	
inferior conj	2075 Sep 17 02:31	24°♓22'01	-3°13'53	min. Earth dist.	2076 Aug 27 01:28	10°♓21'24	0.62025 AU
minimum elong	2075 Sep 17 07:28	24°♓09'12	3°12'18	inferior conj	2076 Aug 30 01:46	7°♓35'56	-4°05'06
morning rise	2075 Sep 23 18:23	19°♓01'37		minimum elong	2076 Aug 30 07:07	7°♓23'39	4°03'51
direct	2075 Sep 26 07:14	18°♓29'47		morning rise	2076 Sep 06 04:33	2°♓35'14	
asc. node	2075 Sep 27 10:25	18°♓36'14		direct	2076 Sep 08 14:49	2°♓09'40	
morning max el	2075 Oct 02 20:18	21°♓55'24	17°53'45	asc. node	2076 Sep 13 07:28	3°♓48'17	
	2075 Oct 09 01:33	0°♕		morning max el	2076 Sep 15 11:35	5°♓37'44	17°54'02
morning set	2075 Oct 19 15:43	17°♕42'41		morning set	2076 Oct 01 10:39	0°♕38'25	
	2075 Oct 26 20:38	0°♖			2076 Oct 01 02:10	0°♕	
				superior conj	2076 Oct 12 05:58	19°♕48'08	1°00'50

minimum elong	2076 Oct 12 10:30	20°♄07'37	1°00'17	minimum elong	2077 Sep 24 10:58	2°♄11'09	1°26'09
	2076 Oct 18 07:23	0°♄		max. Earth dist.	2077 Oct 01 21:44	15°♄15'17	1.41070 AU
max. Earth dist.	2076 Oct 19 13:31	2°♄03'41	1.42902 AU	evening rise	2077 Oct 06 19:41	23°♄25'53	
desc. node	2076 Oct 21 13:27	5°♄18'26		desc. node	2077 Oct 08 10:28	26°♄02'51	
evening rise	2076 Oct 26 15:32	13°♄23'45			2077 Oct 10 22:00	0°♄	
	2076 Nov 06 13:11	0°♄			2077 Oct 31 12:54	0°♄	
evening max el	2076 Nov 27 05:00	27°♄28'41	21°46'27	evening max el	2077 Nov 09 20:45	11°♄01'25	23°05'18
	2076 Nov 29 22:29	0°♄		retrograde	2077 Nov 20 02:21	17°♄05'38	
retrograde	2076 Dec 06 07:48	2°♄54'17		evening set	2077 Nov 24 22:35	15°♄06'13	
asc. node	2076 Dec 10 06:40	1°♄28'45		asc. node	2077 Nov 27 03:43	12°♄51'38	
evening set	2076 Dec 10 15:37	1°♄11'37		inferior conj	2077 Nov 30 07:30	8°♄43'27	1°03'58
	2076 Dec 11 22:53	30°♄		minimum elong	2077 Nov 30 06:04	8°♄48'24	1°03'23
inferior conj	2076 Dec 16 00:00	24°♄54'04	1°51'41	min. Earth dist.	2077 Nov 29 23:38	9°♄10'33	0.67824 AU
minimum elong	2076 Dec 15 21:46	25°♄01'47	1°50'51	morning rise	2077 Dec 05 13:27	2°♄34'33	
min. Earth dist.	2076 Dec 16 02:54	24°♄43'59	0.67751 AU	direct	2077 Dec 09 21:24	0°♄51'03	
morning rise	2076 Dec 21 03:48	18°♄42'02		morning max el	2077 Dec 18 15:58	5°♄58'49	21°29'35
direct	2076 Dec 26 02:18	16°♄35'45		desc. node	2078 Jan 04 09:43	27°♄47'22	
morning max el	2077 Jan 05 01:38	22°♄30'26	22°54'20		2078 Jan 05 21:54	0°♄	
	2077 Jan 11 14:08	0°♄		morning set	2078 Jan 19 05:12	20°♄20'36	
desc. node	2077 Jan 17 12:41	7°♄52'54			2078 Jan 25 05:00	0°♄	
	2077 Feb 01 10:54	0°♄		max. Earth dist.	2078 Jan 26 01:48	1°♄25'32	1.41968 AU
morning set	2077 Feb 08 12:03	11°♄21'42					
max. Earth dist.	2077 Feb 13 01:43	19°♄04'06	1.39913 AU	superior conj	2078 Feb 02 13:46	14°♄06'14	-2°04'57
	2077 Feb 19 06:31	0°♄		minimum elong	2078 Feb 02 14:21	14°♄08'44	2°04'58
					2078 Feb 11 12:02	0°♄	
superior conj	2077 Feb 20 19:22	2°♄47'36	-1°56'10	evening rise	2078 Feb 13 14:44	3°♄51'08	
minimum elong	2077 Feb 20 22:58	3°♄04'08	1°55'56	asc. node	2078 Feb 23 03:00	20°♄37'52	
evening rise	2077 Mar 02 12:23	21°♄04'13		evening max el	2078 Mar 02 02:57	0°♄00'37	18°09'33
	2077 Mar 07 06:18	0°♄			2078 Mar 02 02:42	0°♄	
asc. node	2077 Mar 08 05:58	1°♄47'43		retrograde	2078 Mar 08 21:44	3°♄26'49	
evening max el	2077 Mar 18 17:21	17°♄05'46	18°28'37	evening set	2078 Mar 11 12:38	2°♄56'34	
retrograde	2077 Mar 26 06:29	20°♄48'42			2078 Mar 16 03:08	30°♄	
evening set	2077 Mar 28 15:35	20°♄27'41		inferior conj	2078 Mar 18 06:45	28°♄04'28	3°24'29
inferior conj	2077 Apr 05 02:02	15°♄56'19	2°39'47	minimum elong	2078 Mar 18 09:16	27°♄58'37	3°24'08
minimum elong	2077 Apr 05 05:57	15°♄48'26	2°38'48	min. Earth dist.	2078 Mar 21 13:34	25°♄02'46	0.60544 AU
min. Earth dist.	2077 Apr 08 12:27	13°♄12'37	0.58408 AU	morning rise	2078 Mar 25 03:52	22°♄16'21	
morning rise	2077 Apr 12 17:25	10°♄29'25		direct	2078 Mar 31 20:11	20°♄07'09	
desc. node	2077 Apr 15 11:49	9°♄23'38		desc. node	2078 Apr 02 08:52	20°♄13'37	
direct	2077 Apr 18 17:13	8°♄56'33		morning max el	2078 Apr 15 02:35	27°♄59'32	27°38'23
morning max el	2077 May 03 02:29	16°♄37'26	26°50'49		2078 Apr 17 01:15	0°♄	
	2077 May 14 01:50	0°♄			2078 May 07 18:41	0°♄	
	2077 May 31 05:12	0°♄		morning set	2078 May 17 05:16	18°♄11'58	
morning set	2077 Jun 01 22:32	3°♄34'10		asc. node	2078 May 22 02:19	28°♄33'39	
asc. node	2077 Jun 04 05:17	8°♄25'07			2078 May 22 18:11	0°♄	
				max. Earth dist.	2078 May 23 11:08	1°♄32'32	1.32235 AU
superior conj	2077 Jun 08 23:30	18°♄49'00	0°48'25				
minimum elong	2077 Jun 08 21:34	18°♄38'23	0°48'03	superior conj	2078 May 24 10:51	3°♄42'25	0°24'40
max. Earth dist.	2077 Jun 08 23:24	18°♄48'28	1.32205 AU	minimum elong	2078 May 24 09:45	3°♄36'24	0°24'26
	2077 Jun 14 02:26	0°♄		evening rise	2078 May 31 07:30	18°♄37'43	
evening rise	2077 Jun 15 20:56	3°♄45'48			2078 Jun 05 21:37	0°♄	
	2077 Jun 29 21:52	0°♄			2078 Jun 25 19:31	0°♄	
desc. node	2077 Jul 12 11:06	17°♄07'39		evening max el	2078 Jun 27 08:26	1°♄32'07	25°23'59
evening max el	2077 Jul 15 13:23	20°♄18'17	26°35'22	desc. node	2078 Jun 29 08:07	3°♄19'26	
retrograde	2077 Jul 29 12:45	27°♄31'07		retrograde	2078 Jul 11 08:47	8°♄40'00	
evening set	2077 Aug 05 06:06	25°♄36'26		evening set	2078 Jul 17 02:03	7°♄23'45	
min. Earth dist.	2077 Aug 09 02:53	23°♄00'06	0.59993 AU	min. Earth dist.	2078 Jul 21 20:27	4°♄41'40	0.57960 AU
inferior conj	2077 Aug 12 10:02	20°♄21'43	-4°43'43	inferior conj	2078 Jul 24 23:57	2°♄30'33	-4°58'51
minimum elong	2077 Aug 12 13:56	20°♄13'51	4°43'12	minimum elong	2078 Jul 24 23:52	2°♄30'42	4°58'50
morning rise	2077 Aug 19 23:49	15°♄43'15			2078 Jul 28 20:34	30°♄	
direct	2077 Aug 22 10:09	15°♄21'32		morning rise	2078 Aug 02 00:09	28°♄14'21	
morning max el	2077 Aug 29 22:52	19°♄01'29	18°13'37	direct	2078 Aug 04 13:01	27°♄54'42	
asc. node	2077 Aug 31 04:31	20°♄18'03			2078 Aug 10 17:09	0°♄	
	2077 Sep 07 00:08	0°♄		morning max el	2078 Aug 13 02:57	1°♄57'33	18°53'47
morning set	2077 Sep 14 20:27	14°♄16'32		asc. node	2078 Aug 18 01:34	7°♄50'31	
	2077 Sep 23 06:08	0°♄		morning set	2078 Aug 29 16:45	28°♄25'39	
					2078 Aug 30 11:57	0°♄	
superior conj	2077 Sep 24 07:09	1°♄53'51	1°26'30				

superior conj	2078 Sep 07 04:10	14°♎58'35	1°40'51	asc. node	2079 Aug 04 22:38	26°♎10'55	
minimum elong	2078 Sep 07 06:10	15°♎08'12	1°40'44		2079 Aug 07 03:34	0°♎	
max. Earth dist.	2078 Sep 14 01:55	27°♎44'27	1.39035 AU	morning set	2079 Aug 13 20:15	12°♎56'19	
	2078 Sep 15 08:29	0°♎					
evening rise	2078 Sep 17 23:46	4°♎34'58		superior conj	2079 Aug 21 15:38	28°♎46'41	1°45'40
desc. node	2078 Sep 25 07:28	16°♎40'49		minimum elong	2079 Aug 21 15:50	28°♎47'37	1°45'39
	2078 Oct 04 00:53	0°♎			2079 Aug 22 06:22	0°♎	
evening max el	2078 Oct 23 09:40	24°♎38'17	24°24'54	max. Earth dist.	2079 Aug 27 06:46	9°♎43'50	1.37040 AU
	2078 Oct 30 05:42	0°♎		evening rise	2079 Aug 31 02:38	16°♎48'18	
retrograde	2078 Nov 03 17:08	1°♎15'14			2079 Sep 07 18:00	0°♎	
	2078 Nov 07 18:32	30°♎		desc. node	2079 Sep 12 04:30	7°♎07'40	
evening set	2078 Nov 09 03:12	28°♎59'12			2079 Sep 28 10:45	0°♎	
min. Earth dist.	2078 Nov 13 19:38	23°♎37'01	0.67567 AU	evening max el	2079 Oct 05 21:46	8°♎18'36	25°38'08
asc. node	2078 Nov 14 00:47	23°♎19'45		retrograde	2079 Oct 18 03:21	15°♎18'54	
inferior conj	2078 Nov 14 13:59	22°♎35'29	0°11'21	evening set	2079 Oct 24 03:46	12°♎48'05	
minimum elong	2078 Nov 14 13:42	22°♎36'25	0°11'14	min. Earth dist.	2079 Oct 28 12:26	8°♎01'10	0.66975 AU
transit middle	2078 Nov 14 13:42	22°♎36'25	0°11'14	inferior conj	2079 Oct 29 17:42	6°♎27'43	-0°44'52
transit begin	2078 Nov 14 11:44	22°♎43'04		minimum elong	2079 Oct 29 18:51	6°♎24'01	0°44'21
transit end	2078 Nov 14 15:41	22°♎29'48		asc. node	2079 Oct 31 21:51	3°♎46'52	
morning rise	2078 Nov 20 00:14	16°♎32'04		morning rise	2079 Nov 04 10:12	0°♎32'33	
direct	2078 Nov 23 19:00	15°♎10'07			2079 Nov 05 10:17	30°♎	
morning max el	2078 Dec 01 13:35	19°♎37'37	20°15'04	direct	2079 Nov 07 17:39	29°♎29'21	
	2078 Dec 09 23:29	0°♎			2079 Nov 10 02:52	0°♎	
desc. node	2078 Dec 22 06:45	18°♎01'51		morning max el	2079 Nov 14 19:00	3°♎26'55	19°14'34
morning set	2078 Dec 29 02:39	28°♎29'14			2079 Dec 03 16:11	0°♎	
	2078 Dec 30 02:05	0°♎		morning set	2079 Dec 08 04:32	7°♎00'22	
max. Earth dist.	2079 Jan 08 09:49	14°♎41'35	1.43657 AU	desc. node	2079 Dec 09 03:47	8°♎30'49	
				max. Earth dist.	2079 Dec 22 00:52	28°♎39'57	1.44760 AU
superior conj	2079 Jan 14 06:48	24°♎14'21	-1°58'43		2079 Dec 22 21:08	0°♎	
minimum elong	2079 Jan 14 02:05	23°♎54'55	1°58'29				
	2079 Jan 17 18:02	0°♎		superior conj	2079 Dec 24 22:29	3°♎15'27	-1°33'38
evening rise	2079 Jan 27 00:05	15°♎49'17		minimum elong	2079 Dec 24 13:44	2°♎40'45	1°32'47
	2079 Feb 04 05:57	0°♎		evening rise	2080 Jan 08 12:17	26°♎52'19	
asc. node	2079 Feb 10 00:04	8°♎51'46			2080 Jan 10 09:42	0°♎	
evening max el	2079 Feb 13 15:20	13°♎12'53	18°09'52	asc. node	2080 Jan 27 21:08	26°♎18'40	
retrograde	2079 Feb 20 02:31	16°♎37'08		evening max el	2080 Jan 28 03:38	26°♎35'24	18°28'50
evening set	2079 Feb 22 22:43	15°♎56'21			2080 Feb 02 07:17	0°♎	
inferior conj	2079 Mar 01 04:17	10°♎43'52	3°42'09	retrograde	2080 Feb 03 16:28	0°♎10'32	
minimum elong	2079 Mar 01 04:49	10°♎42'28	3°42'08		2080 Feb 05 01:25	30°♎	
min. Earth dist.	2079 Mar 03 22:55	7°♎48'51	0.62629 AU	evening set	2080 Feb 06 18:04	29°♎18'23	
morning rise	2079 Mar 07 09:48	4°♎43'13		inferior conj	2080 Feb 12 14:36	23°♎47'00	3°39'38
direct	2079 Mar 14 08:30	2°♎06'34		minimum elong	2080 Feb 12 13:28	23°♎50'18	3°39'34
desc. node	2079 Mar 20 05:56	3°♎43'54		min. Earth dist.	2080 Feb 14 17:51	21°♎17'15	0.64442 AU
morning max el	2079 Mar 28 08:13	10°♎02'14	27°48'55	morning rise	2080 Feb 18 08:20	17°♎39'13	
	2079 Apr 12 22:05	0°♎		direct	2080 Feb 25 04:20	14°♎49'02	
	2079 Apr 30 00:36	0°♎		desc. node	2080 Mar 06 02:58	19°♎22'19	
morning set	2079 May 01 06:29	2°♎29'48		morning max el	2080 Mar 09 17:21	22°♎40'07	27°23'34
max. Earth dist.	2079 May 06 18:56	14°♎00'37	1.32669 AU		2080 Mar 16 05:03	0°♎	
					2080 Apr 05 03:48	0°♎	
superior conj	2079 May 08 19:59	18°♎24'52	-0°01'29	morning set	2080 Apr 13 23:30	16°♎19'34	
minimum elong	2079 May 08 20:03	18°♎25'15	0°01'29	max. Earth dist.	2080 Apr 18 19:04	26°♎01'47	1.33532 AU
behind sun begin	2079 May 08 14:53	17°♎57'12			2080 Apr 20 16:46	0°♎	
behind sun end	2079 May 09 01:14	18°♎53'19					
asc. node	2079 May 08 23:21	18°♎43'06		superior conj	2080 Apr 22 01:03	2°♎50'25	-0°29'09
	2079 May 14 04:08	0°♎		minimum elong	2080 Apr 22 02:31	2°♎58'10	0°28'51
evening rise	2079 May 15 19:20	3°♎29'24		asc. node	2080 Apr 24 20:24	8°♎49'34	
	2079 May 30 03:47	0°♎		evening rise	2080 Apr 29 06:37	18°♎14'48	
evening max el	2079 Jun 08 22:36	12°♎10'13	23°52'45		2080 May 05 02:35	0°♎	
desc. node	2079 Jun 16 05:09	17°♎29'21		evening max el	2080 May 20 14:13	22°♎40'05	22°16'43
retrograde	2079 Jun 22 16:29	19°♎04'18		desc. node	2080 Jun 02 02:11	29°♎02'48	
evening set	2079 Jun 26 23:25	18°♎23'47		retrograde	2080 Jun 02 12:01	29°♎03'11	
min. Earth dist.	2079 Jul 03 09:14	15°♎20'12	0.56230 AU	evening set	2080 Jun 05 09:51	28°♎44'27	
inferior conj	2079 Jul 05 17:37	13°♎54'14	-4°36'18	min. Earth dist.	2080 Jun 13 20:34	25°♎06'29	0.55142 AU
minimum elong	2079 Jul 05 12:08	14°♎02'39	4°35'30	inferior conj	2080 Jun 14 18:01	24°♎36'15	-3°25'52
morning rise	2079 Jul 14 03:29	9°♎56'09		minimum elong	2080 Jun 14 10:05	24°♎47'26	3°23'41
direct	2079 Jul 16 20:52	9°♎37'07		morning rise	2080 Jun 23 12:13	20°♎44'21	
morning max el	2079 Jul 26 20:55	14°♎15'25	19°55'26	direct	2080 Jun 26 12:07	20°♎24'09	

morning max el	2080 Jul 08 03:24	25° Π 49'31	21°17'27	direct	2081 Jun 06 21:31	0° Π 26'19	
	2080 Jul 12 00:50	0° \mathfrak{C}		morning max el	2081 Jun 19 23:55	6° Π 43'39	22°54'43
asc. node	2080 Jul 21 19:40	15° \mathfrak{C} 07'48			2081 Jul 06 08:07	0° \mathfrak{C}	
morning set	2080 Jul 28 04:25	27° \mathfrak{C} 41'20		asc. node	2081 Jul 08 16:42	4° \mathfrak{C} 32'15	
	2080 Jul 29 07:07	0° Ω		morning set	2081 Jul 12 15:18	12° \mathfrak{C} 35'11	
superior conj	2080 Aug 04 13:17	13° Ω 05'38	1°42'45	superior conj	2081 Jul 19 17:52	27° \mathfrak{C} 45'44	1°33'35
minimum elong	2080 Aug 04 12:04	12° Ω 59'20	1°42'42	minimum elong	2081 Jul 19 15:47	27° \mathfrak{C} 34'39	1°33'23
max. Earth dist.	2080 Aug 08 17:31	21° Ω 35'55	1.35290 AU		2081 Jul 20 19:08	0° Ω	
evening rise	2080 Aug 13 00:04	29° Ω 54'57		max. Earth dist.	2081 Jul 22 13:08	3° Ω 41'05	1.33909 AU
	2080 Aug 13 01:07	0° \mathfrak{M}		evening rise	2081 Jul 27 11:30	13° Ω 43'07	
desc. node	2080 Aug 29 01:32	27° \mathfrak{M} 17'20			2081 Aug 05 06:04	0° \mathfrak{M}	
	2080 Aug 30 20:56	0° \mathfrak{L}		desc. node	2081 Aug 15 22:32	17° \mathfrak{M} 02'12	
evening max el	2080 Sep 17 09:57	21° \mathfrak{L} 56'24	26°37'26		2081 Aug 25 19:57	0° \mathfrak{L}	
retrograde	2080 Sep 30 08:24	29° \mathfrak{L} 10'13		evening max el	2081 Aug 30 21:53	5° \mathfrak{L} 22'59	27°15'25
evening set	2080 Oct 06 22:14	26° \mathfrak{L} 29'05		retrograde	2081 Sep 13 08:02	12° \mathfrak{L} 41'47	
min. Earth dist.	2080 Oct 10 23:38	22° \mathfrak{L} 18'43	0.66038 AU	evening set	2081 Sep 20 08:11	9° \mathfrak{L} 58'13	
inferior conj	2080 Oct 12 16:38	20° \mathfrak{L} 16'20	-1°43'09	min. Earth dist.	2081 Sep 24 03:05	6° \mathfrak{L} 23'40	0.64742 AU
minimum elong	2080 Oct 12 19:24	20° \mathfrak{L} 08'06	1°42'02	inferior conj	2081 Sep 26 08:36	3° \mathfrak{L} 57'16	-2°41'27
asc. node	2080 Oct 17 18:54	15° \mathfrak{L} 06'55		minimum elong	2081 Sep 26 12:53	3° \mathfrak{L} 45'33	2°39'55
morning rise	2080 Oct 18 17:08	14° \mathfrak{L} 32'20			2081 Sep 30 08:39	30° \mathfrak{R} \mathfrak{M}	
direct	2080 Oct 21 15:23	13° \mathfrak{L} 44'20		morning rise	2081 Oct 02 18:33	28° \mathfrak{M} 27'28	
morning max el	2080 Oct 28 06:41	17° \mathfrak{L} 22'29	18°29'50	asc. node	2081 Oct 04 15:55	27° \mathfrak{M} 53'52	
	2080 Nov 06 17:05	0° \mathfrak{M}		direct	2081 Oct 05 10:00	27° \mathfrak{M} 50'52	
morning set	2080 Nov 17 06:59	16° \mathfrak{M} 48'29			2081 Oct 10 11:25	0° \mathfrak{L}	
desc. node	2080 Nov 25 00:49	29° \mathfrak{M} 09'26		morning max el	2081 Oct 11 22:04	1° \mathfrak{L} 18'52	18°01'53
	2080 Nov 25 13:35	0° \mathfrak{X}		morning set	2081 Oct 29 14:35	28° \mathfrak{L} 02'54	
superior conj	2080 Dec 03 00:06	11° \mathfrak{X} 43'29	-0°51'43		2081 Oct 30 18:33	0° \mathfrak{M}	
minimum elong	2080 Dec 02 17:33	11° \mathfrak{X} 17'45	0°50'53	desc. node	2081 Nov 11 21:52	19° \mathfrak{M} 54'29	
max. Earth dist.	2080 Dec 03 19:32	12° \mathfrak{X} 59'48	1.45154 AU	superior conj	2081 Nov 12 09:02	20° \mathfrak{M} 39'14	-0°03'09
	2080 Dec 14 15:14	0° \mathfrak{Z}		minimum elong	2081 Nov 12 08:39	20° \mathfrak{M} 37'42	0°03'07
evening rise	2080 Dec 19 01:04	6° \mathfrak{Z} 57'54		behind sun begin	2081 Nov 11 22:15	19° \mathfrak{M} 56'01	
greatest brilliancy	2080 Dec 28 12:31	21° \mathfrak{Z} 55'41	-0.8m	behind sun end	2081 Nov 12 19:03	21° \mathfrak{M} 19'20	
	2081 Jan 02 19:29	0° \mathfrak{A}		max. Earth dist.	2081 Nov 16 14:17	27° \mathfrak{M} 21'44	1.44808 AU
evening max el	2081 Jan 10 13:20	10° \mathfrak{A} 02'23	19°05'26		2081 Nov 18 06:26	0° \mathfrak{X}	
asc. node	2081 Jan 13 18:11	12° \mathfrak{A} 44'39		evening rise	2081 Nov 28 17:42	16° \mathfrak{X} 17'38	
retrograde	2081 Jan 17 11:44	13° \mathfrak{A} 59'07			2081 Dec 07 16:18	0° \mathfrak{Z}	
evening set	2081 Jan 20 19:37	12° \mathfrak{A} 54'43		greatest brilliancy	2081 Dec 12 17:00	7° \mathfrak{Z} 33'16	-0.6m
inferior conj	2081 Jan 26 10:02	7° \mathfrak{A} 06'43	3°22'16	evening max el	2081 Dec 24 18:40	23° \mathfrak{Z} 31'51	19°58'00
minimum elong	2081 Jan 26 07:52	7° \mathfrak{A} 13'36	3°21'54	asc. node	2081 Dec 31 15:12	27° \mathfrak{Z} 55'35	
min. Earth dist.	2081 Jan 27 21:59	5° \mathfrak{A} 12'53	0.65877 AU	retrograde	2082 Jan 01 09:21	27° \mathfrak{Z} 58'46	
morning rise	2081 Jan 31 19:49	0° \mathfrak{A} 55'00		evening set	2082 Jan 05 01:03	26° \mathfrak{Z} 40'46	
	2081 Feb 01 22:53	30° \mathfrak{R} \mathfrak{Z}		inferior conj	2082 Jan 10 11:42	20° \mathfrak{Z} 38'55	2°53'42
direct	2081 Feb 07 06:42	28° \mathfrak{Z} 05'11		minimum elong	2082 Jan 10 09:06	20° \mathfrak{Z} 47'37	2°53'01
	2081 Feb 13 05:24	0° \mathfrak{A}		min. Earth dist.	2082 Jan 11 09:43	19° \mathfrak{Z} 25'19	0.66913 AU
morning max el	2081 Feb 20 03:16	5° \mathfrak{A} 40'45	26°28'20	morning rise	2082 Jan 15 16:55	14° \mathfrak{Z} 25'34	
desc. node	2081 Feb 21 00:00	6° \mathfrak{A} 33'57		direct	2082 Jan 21 14:54	11° \mathfrak{Z} 47'15	
	2081 Mar 10 20:11	0° \mathfrak{H}		morning max el	2082 Feb 02 12:06	18° \mathfrak{Z} 52'39	25°12'04
morning set	2081 Mar 28 04:43	29° \mathfrak{H} 30'02		desc. node	2082 Feb 07 21:04	24° \mathfrak{Z} 52'27	
	2081 Mar 28 11:04	0° \mathfrak{Y}			2082 Feb 11 22:29	0° \mathfrak{A}	
max. Earth dist.	2081 Apr 01 08:03	7° \mathfrak{Y} 28'56	1.34842 AU		2082 Mar 03 22:08	0° \mathfrak{H}	
superior conj	2081 Apr 05 23:43	16° \mathfrak{Y} 51'52	-0°57'08	morning set	2082 Mar 10 17:18	11° \mathfrak{H} 47'28	
minimum elong	2081 Apr 06 02:36	17° \mathfrak{Y} 06'44	0°56'35	max. Earth dist.	2082 Mar 14 09:28	18° \mathfrak{H} 31'13	1.36592 AU
asc. node	2081 Apr 11 17:28	28° \mathfrak{Y} 48'37			2082 Mar 20 08:49	0° \mathfrak{Y}	
	2081 Apr 12 07:09	0° \mathfrak{B}		superior conj	2082 Mar 20 13:09	0° \mathfrak{Y} 21'27	-1°23'41
evening rise	2081 Apr 13 15:20	2° \mathfrak{B} 46'59		minimum elong	2082 Mar 20 17:10	0° \mathfrak{Y} 41'18	1°23'05
	2081 Apr 29 09:12	0° \mathfrak{I}		evening rise	2082 Mar 28 19:21	16° \mathfrak{Y} 59'23	
evening max el	2081 May 02 14:29	3° \mathfrak{I} 32'30	20°49'43	asc. node	2082 Mar 29 14:30	18° \mathfrak{Y} 35'39	
retrograde	2081 May 14 01:20	9° \mathfrak{I} 06'59			2082 Apr 04 12:50	0° \mathfrak{B}	
evening set	2081 May 16 04:33	8° \mathfrak{I} 56'06		evening max el	2082 Apr 15 02:35	15° \mathfrak{B} 03'21	19°39'26
desc. node	2081 May 19 23:11	7° \mathfrak{I} 48'51		retrograde	2082 Apr 24 19:42	19° \mathfrak{B} 44'51	
inferior conj	2081 May 25 11:44	4° \mathfrak{I} 58'14	-1°36'11	evening set	2082 Apr 26 20:25	19° \mathfrak{B} 33'28	
minimum elong	2081 May 25 07:12	5° \mathfrak{I} 04'41	1°34'33	inferior conj	2082 May 05 13:18	15° \mathfrak{B} 30'26	0°22'20
min. Earth dist.	2081 May 26 08:59	4° \mathfrak{I} 27'57	0.54944 AU	minimum elong	2082 May 05 14:16	15° \mathfrak{B} 28'55	0°21'59
morning rise	2081 Jun 03 09:29	0° \mathfrak{I} 52'44		desc. node	2082 May 06 20:13	14° \mathfrak{B} 41'39	

min. Earth dist.	2082 May 07 23:12	13°♄59'38	0.55711 AU	min. Earth dist.	2083 Apr 19 15:45	24°♄13'53	0.57276 AU
morning rise	2082 May 14 05:30	10°♄54'43		desc. node	2083 Apr 23 17:15	21°♄47'03	
direct	2082 May 18 14:55	10°♄11'33		morning rise	2083 Apr 24 11:08	21°♄26'31	
morning max el	2082 Jun 01 14:47	17°♄12'53	24°36'41	direct	2083 Apr 29 22:04	20°♄14'11	
	2082 Jun 12 01:03	0°♄		morning max el	2083 May 14 06:02	27°♄43'52	26°08'34
asc. node	2082 Jun 25 13:44	24°♄16'10			2083 May 16 11:12	0°♄	
morning set	2082 Jun 27 03:07	27°♄31'33			2083 Jun 05 10:02	0°♄	
	2082 Jun 28 07:04	0°♄		morning set	2083 Jun 11 14:19	12°♄25'11	
				asc. node	2083 Jun 12 10:47	14°♄13'38	
superior conj	2082 Jul 04 02:46	12°♄37'49	1°19'17	superior conj	2083 Jun 18 14:00	27°♄35'00	1°00'45
minimum elong	2082 Jul 04 00:22	12°♄24'45	1°18'57	minimum elong	2083 Jun 18 11:46	27°♄22'44	1°00'21
max. Earth dist.	2082 Jul 05 17:17	16°♄06'31	1.32937 AU	max. Earth dist.	2083 Jun 19 03:23	28°♄48'30	1.32364 AU
evening rise	2082 Jul 11 09:00	28°♄00'37			2083 Jun 19 16:25	0°♄	
	2082 Jul 12 08:35	0°♄		evening rise	2083 Jun 25 13:30	12°♄37'46	
	2082 Jul 29 11:20	0°♄			2083 Jul 04 11:45	0°♄	
desc. node	2082 Aug 02 19:32	6°♄10'59		desc. node	2083 Jul 20 16:31	24°♄28'41	
evening max el	2082 Aug 13 08:05	18°♄25'51	27°25'33		2083 Jul 25 16:30	0°♄	
retrograde	2082 Aug 27 01:27	25°♄43'18		evening max el	2083 Jul 26 14:02	0°♄52'14	27°03'16
evening set	2082 Sep 03 06:18	23°♄08'38		retrograde	2083 Aug 09 11:33	8°♄05'54	
min. Earth dist.	2082 Sep 06 20:58	20°♄05'26	0.63103 AU	evening set	2083 Aug 16 12:30	5°♄53'14	
inferior conj	2082 Sep 09 14:51	17°♄23'25	-3°36'39	min. Earth dist.	2083 Aug 20 04:20	3°♄11'26	0.61183 AU
minimum elong	2082 Sep 09 20:08	17°♄10'24	3°35'08	inferior conj	2083 Aug 23 08:13	0°♄26'59	-4°23'35
morning rise	2082 Sep 16 11:19	12°♄10'57		minimum elong	2083 Aug 23 13:14	0°♄16'04	4°22'36
direct	2082 Sep 18 22:36	11°♄42'15			2083 Aug 23 20:39	30°♄	
asc. node	2082 Sep 21 12:57	12°♄14'42		morning rise	2083 Aug 30 15:41	25°♄35'05	
morning max el	2082 Sep 25 14:13	15°♄08'15	17°51'30	direct	2083 Sep 02 01:39	25°♄11'22	
	2082 Oct 05 22:37	0°♄		asc. node	2083 Sep 08 10:00	28°♄01'28	
morning set	2082 Oct 11 22:27	10°♄27'03		morning max el	2083 Sep 09 04:07	28°♄43'28	17°59'48
	2082 Oct 23 06:36	0°♄			2083 Sep 10 09:23	0°♄	
superior conj	2082 Oct 23 17:16	0°♄44'35	0°40'33	morning set	2083 Sep 25 00:21	23°♄42'49	
minimum elong	2082 Oct 23 21:04	1°♄00'26	0°40'02		2083 Sep 28 10:19	0°♄	
desc. node	2082 Oct 29 18:53	10°♄41'53		superior conj	2083 Oct 05 04:29	12°♄09'05	1°13'12
max. Earth dist.	2082 Oct 30 06:28	11°♄28'30	1.43770 AU	minimum elong	2083 Oct 05 08:57	12°♄28'41	1°12'42
evening rise	2082 Nov 08 01:59	25°♄21'45		max. Earth dist.	2083 Oct 12 18:17	25°♄05'29	1.42175 AU
	2082 Nov 11 02:24	0°♄			2083 Oct 15 18:03	0°♄	
	2082 Dec 01 19:23	0°♄		desc. node	2083 Oct 16 15:53	1°♄28'20	
evening max el	2082 Dec 07 18:36	7°♄02'45	21°04'01	evening rise	2083 Oct 18 19:02	4°♄53'11	
retrograde	2082 Dec 16 07:03	12°♄05'44			2083 Nov 04 10:30	0°♄	
asc. node	2082 Dec 18 12:12	11°♄38'27		evening max el	2083 Nov 20 13:08	20°♄34'51	22°19'34
evening set	2082 Dec 20 08:25	10°♄32'36		retrograde	2083 Nov 30 03:02	26°♄16'35	
inferior conj	2082 Dec 25 17:12	4°♄20'00	2°16'25	evening set	2083 Dec 04 16:00	24°♄26'51	
minimum elong	2082 Dec 25 14:41	4°♄28'36	2°15'34	asc. node	2083 Dec 05 09:15	23°♄48'54	
min. Earth dist.	2082 Dec 26 02:46	3°♄47'02	0.67555 AU	inferior conj	2083 Dec 10 00:28	18°♄06'53	1°32'06
	2082 Dec 29 00:53	30°♄		minimum elong	2083 Dec 09 22:32	18°♄13'36	1°31'21
morning rise	2082 Dec 30 20:46	28°♄06'58		min. Earth dist.	2083 Dec 09 22:45	18°♄12'51	0.67830 AU
direct	2083 Jan 05 04:04	25°♄47'40		morning rise	2083 Dec 15 04:56	11°♄56'05	
	2083 Jan 13 13:40	0°♄		direct	2083 Dec 19 21:14	9°♄59'20	
morning max el	2083 Jan 15 20:32	2°♄09'50	23°45'09	morning max el	2083 Dec 29 07:39	15°♄33'00	22°17'20
desc. node	2083 Jan 25 18:08	13°♄58'33			2084 Jan 10 00:48	0°♄	
	2083 Feb 06 00:15	0°♄		desc. node	2084 Jan 12 15:09	3°♄38'11	
morning set	2083 Feb 20 07:14	22°♄55'31			2084 Jan 30 01:07	0°♄	
max. Earth dist.	2083 Feb 24 04:31	29°♄40'32	1.38667 AU	morning set	2084 Jan 31 16:52	2°♄40'18	
	2083 Feb 24 08:55	0°♄		max. Earth dist.	2084 Feb 06 01:35	11°♄32'32	1.40820 AU
superior conj	2083 Mar 03 13:44	13°♄10'01	-1°46'16	superior conj	2084 Feb 13 20:40	25°♄05'04	-2°01'24
minimum elong	2083 Mar 03 17:58	13°♄30'00	1°45'52	minimum elong	2084 Feb 13 23:19	25°♄16'55	2°01'19
	2083 Mar 12 06:47	0°♄			2084 Feb 16 14:00	0°♄	
evening rise	2083 Mar 12 16:03	0°♄45'15		evening rise	2084 Feb 24 02:13	13°♄56'09	
asc. node	2083 Mar 16 11:32	8°♄05'47		asc. node	2084 Mar 02 08:34	27°♄12'31	
evening max el	2083 Mar 29 01:27	27°♄13'08	18°48'43		2084 Mar 04 00:13	0°♄	
	2083 Apr 01 17:42	0°♄		evening max el	2084 Mar 11 08:01	9°♄53'37	18°18'05
retrograde	2083 Apr 06 06:08	1°♄12'25		retrograde	2084 Mar 18 11:46	13°♄27'24	
evening set	2083 Apr 08 11:55	0°♄55'43		evening set	2084 Mar 20 23:33	13°♄02'30	
	2083 Apr 11 00:51	30°♄		inferior conj	2084 Mar 28 02:32	8°♄22'03	3°02'29
inferior conj	2083 Apr 16 09:15	26°♄36'05	1°59'10	minimum elong	2084 Mar 28 06:02	8°♄14'33	3°01'47
minimum elong	2083 Apr 16 13:05	26°♄29'04	1°58'01				

min. Earth dist.	2084 Mar 31 12:44	5°♿27'54	0.59308 AU	morning rise	2085 Mar 17 04:58	14°♿49'56	
morning rise	2084 Apr 04 10:02	2°♿45'10		direct	2085 Mar 24 01:00	12°♿27'51	
desc. node	2084 Apr 09 14:19	1°♿00'13		desc. node	2085 Mar 27 11:22	13°♿00'47	
direct	2084 Apr 10 18:03	0°♿56'37		morning max el	2085 Apr 07 05:17	20°♿22'32	27°47'31
morning max el	2084 Apr 25 02:24	8°♿42'28	27°15'29		2085 Apr 15 12:01	0°♿	
	2084 May 11 07:21	0°♿			2085 May 04 05:27	0°♿	
morning set	2084 May 25 23:12	27°♿10'02		morning set	2085 May 10 03:52	11°♿39'54	
	2084 May 27 07:30	0°♿		max. Earth dist.	2085 May 16 02:23	24°♿14'23	1.32370 AU
asc. node	2084 May 29 07:51	4°♿19'00		asc. node	2085 May 16 04:54	24°♿28'04	
max. Earth dist.	2084 Jun 01 15:43	11°♿35'26	1.32174 AU				
				superior conj	2085 May 17 12:22	27°♿19'30	0°13'49
superior conj	2084 Jun 02 01:46	12°♿30'44	0°38'42	minimum elong	2085 May 17 11:44	27°♿16'02	0°13'40
minimum elong	2084 Jun 02 00:09	12°♿21'49	0°38'21	behind sun begin	2085 May 17 09:07	27°♿01'48	
evening rise	2084 Jun 08 22:27	27°♿25'48		behind sun end	2085 May 17 14:20	27°♿30'16	
	2084 Jun 10 03:52	0°♿			2085 May 18 17:42	0°♿	
	2084 Jun 27 02:58	0°♿		evening rise	2085 May 24 09:47	12°♿17'46	
desc. node	2084 Jul 06 13:33	11°♿34'07			2085 Jun 02 09:11	0°♿	
evening max el	2084 Jul 07 13:11	12°♿31'55	26°08'15	evening max el	2085 Jun 19 05:20	23°♿26'34	24°46'40
retrograde	2084 Jul 21 12:59	19°♿42'25		desc. node	2085 Jun 23 10:35	26°♿58'04	
evening set	2084 Jul 27 21:59	18°♿03'29			2085 Jun 29 12:37	0°♿	
min. Earth dist.	2084 Aug 01 01:50	15°♿27'11	0.59116 AU	retrograde	2085 Jul 03 04:07	0°♿30'49	
inferior conj	2084 Aug 04 09:04	12°♿58'06	-4°53'49		2085 Jul 06 20:00	30°♿	
minimum elong	2084 Aug 04 11:35	12°♿53'19	4°53'36	evening set	2085 Jul 08 07:43	29°♿30'37	
morning rise	2084 Aug 12 03:21	8°♿29'13		min. Earth dist.	2085 Jul 13 16:35	26°♿41'13	0.57160 AU
direct	2084 Aug 14 14:41	8°♿08'25		inferior conj	2085 Jul 16 14:17	24°♿47'12	-4°54'44
morning max el	2084 Aug 22 12:41	11°♿56'18	18°28'08	minimum elong	2085 Jul 16 11:53	24°♿51'09	4°54'35
asc. node	2084 Aug 25 07:04	14°♿59'34		morning rise	2085 Jul 24 18:45	20°♿40'06	
	2084 Sep 03 15:01	0°♿		direct	2085 Jul 27 09:21	20°♿20'55	
morning set	2084 Sep 07 15:08	7°♿35'56		morning max el	2085 Aug 05 12:48	24°♿36'56	19°17'33
					2085 Aug 10 04:21	0°♿	
superior conj	2084 Sep 16 14:52	24°♿42'23	1°33'52	asc. node	2085 Aug 12 04:08	2°♿53'33	
minimum elong	2084 Sep 16 17:59	24°♿56'47	1°33'37	morning set	2085 Aug 22 14:50	21°♿54'51	
	2084 Sep 19 12:16	0°♿			2085 Aug 26 15:54	0°♿	
max. Earth dist.	2084 Sep 24 01:03	8°♿01'25	1.40219 AU				
evening rise	2084 Sep 28 09:09	15°♿23'21		superior conj	2085 Aug 30 18:39	8°♿07'25	1°43'56
desc. node	2084 Oct 02 12:53	22°♿10'43		minimum elong	2085 Aug 30 19:52	8°♿13'18	1°43'54
	2084 Oct 07 12:27	0°♿		max. Earth dist.	2085 Sep 06 04:43	20°♿15'00	1.38158 AU
	2084 Oct 29 07:09	0°♿		evening rise	2085 Sep 09 23:16	27°♿00'19	
evening max el	2084 Nov 02 03:27	4°♿09'46	23°39'22		2085 Sep 11 16:38	0°♿	
retrograde	2084 Nov 12 20:05	10°♿28'26		desc. node	2085 Sep 19 09:54	12°♿44'31	
evening set	2084 Nov 17 22:12	8°♿21'37			2085 Oct 01 00:40	0°♿	
asc. node	2084 Nov 21 06:18	4°♿43'43		evening max el	2085 Oct 15 15:36	17°♿47'45	24°57'10
inferior conj	2084 Nov 23 07:46	1°♿57'59	0°42'11	retrograde	2085 Oct 27 09:09	24°♿36'31	
minimum elong	2084 Nov 23 06:47	2°♿01'20	0°41'46	evening set	2085 Nov 02 01:21	22°♿13'34	
min. Earth dist.	2084 Nov 22 19:22	2°♿40'16	0.67761 AU	min. Earth dist.	2085 Nov 06 14:17	17°♿06'18	0.67357 AU
	2084 Nov 24 18:53	30°♿		inferior conj	2085 Nov 07 13:18	15°♿50'31	-0°12'07
morning rise	2084 Nov 28 15:20	25°♿51'24		minimum elong	2085 Nov 07 13:36	15°♿49'31	0°11'59
direct	2084 Dec 02 17:29	24°♿17'27		transit middle	2085 Nov 07 13:36	15°♿49'31	0°11'59
morning max el	2084 Dec 11 01:02	29°♿06'31	20°56'24	transit begin	2085 Nov 07 11:44	15°♿55'40	
	2084 Dec 11 21:42	0°♿		transit end	2085 Nov 07 15:28	15°♿43'23	
desc. node	2084 Dec 29 12:11	23°♿42'09		asc. node	2085 Nov 08 03:21	15°♿04'23	
	2085 Jan 02 16:56	0°♿		morning rise	2085 Nov 13 02:00	9°♿50'23	
morning set	2085 Jan 09 23:33	11°♿11'33		direct	2085 Nov 16 15:37	8°♿37'02	
max. Earth dist.	2085 Jan 18 05:34	24°♿20'33	1.42751 AU	morning max el	2085 Nov 24 02:10	12°♿50'43	19°47'29
	2085 Jan 21 16:11	0°♿			2085 Dec 07 02:16	0°♿	
				greatest brilliancy	2085 Dec 07 13:04	0°♿40'03	-0.7m
superior conj	2085 Jan 25 04:43	5°♿54'26	-2°04'26	desc. node	2085 Dec 16 09:12	14°♿03'13	
minimum elong	2085 Jan 25 03:13	5°♿48'05	2°04'25	morning set	2085 Dec 19 19:38	19°♿20'32	
evening rise	2085 Feb 05 21:55	26°♿23'44			2085 Dec 26 16:03	0°♿	
	2085 Feb 07 22:19	0°♿		max. Earth dist.	2085 Dec 31 16:34	7°♿55'31	1.44208 AU
asc. node	2085 Feb 17 05:38	15°♿48'22					
evening max el	2085 Feb 22 19:07	22°♿56'20	18°07'15	superior conj	2086 Jan 05 10:24	15°♿31'48	-1°50'26
retrograde	2085 Mar 01 09:32	26°♿20'21		minimum elong	2086 Jan 05 03:28	15°♿03'47	1°49'57
evening set	2085 Mar 04 02:40	25°♿45'45			2086 Jan 14 05:17	0°♿	
inferior conj	2085 Mar 10 14:57	20°♿44'32	3°34'50	evening rise	2086 Jan 18 22:44	7°♿59'05	
minimum elong	2085 Mar 10 16:37	20°♿40'25	3°34'41		2086 Feb 01 08:30	0°♿	
min. Earth dist.	2085 Mar 13 17:08	17°♿43'01	0.61454 AU	asc. node	2086 Feb 04 02:40	3°♿43'38	

evening max el	2086 Feb 06 07:43	6° H 13'19	18°15'41	evening rise	2086 Dec 31 00:59	18° Z 36'59	
retrograde	2086 Feb 12 18:45	9° H 41'04			2087 Jan 07 01:34	0° \approx	
evening set	2086 Feb 15 17:04	8° H 55'44		evening max el	2087 Jan 20 19:11	19° \approx 38'25	18°42'21
inferior conj	2086 Feb 21 18:25	3° H 35'04	3°43'12	asc. node	2087 Jan 21 23:42	20° \approx 46'21	
minimum elong	2086 Feb 21 18:10	3° H 35'45	3°43'11	retrograde	2087 Jan 27 11:13	23° \approx 21'22	
min. Earth dist.	2086 Feb 24 06:44	0° H 48'41	0.63439 AU	evening set	2087 Jan 30 15:20	22° \approx 24'14	
	2086 Feb 25 01:17	30° R \approx		inferior conj	2087 Feb 05 08:59	16° \approx 45'47	3°33'50
morning rise	2086 Feb 27 18:24	27° \approx 30'35		minimum elong	2087 Feb 05 07:20	16° \approx 50'48	3°33'38
direct	2086 Mar 06 16:50	24° \approx 46'09		min. Earth dist.	2087 Feb 07 05:44	14° \approx 30'07	0.65106 AU
desc. node	2086 Mar 14 08:25	27° \approx 29'44		morning rise	2087 Feb 10 22:54	10° \approx 36'04	
	2086 Mar 17 15:15	0° H		direct	2087 Feb 17 15:47	7° \approx 44'04	
morning max el	2086 Mar 20 12:55	2° H 42'03	27°42'14	desc. node	2087 Mar 01 05:27	13° \approx 51'19	
	2086 Apr 09 20:17	0° Y		morning max el	2087 Mar 02 22:27	15° \approx 30'22	27°03'08
morning set	2086 Apr 24 02:00	25° Y 47'24			2087 Mar 14 20:35	0° H	
	2086 Apr 26 03:58	0° B			2087 Apr 02 14:18	0° Y	
max. Earth dist.	2086 Apr 29 07:18	6° B 31'59	1.32974 AU	morning set	2087 Apr 07 14:27	9° Y 21'46	
				max. Earth dist.	2087 Apr 12 02:39	18° Y 17'16	1.34028 AU
superior conj	2086 May 01 20:02	11° B 55'47	-0°13'07	superior conj	2087 Apr 15 22:40	26° Y 12'01	-0°41'05
minimum elong	2086 May 01 20:41	11° B 59'15	0°12'59	minimum elong	2087 Apr 16 00:45	26° Y 22'54	0°40'39
behind sun begin	2086 May 01 17:35	11° B 42'37			2087 Apr 17 18:00	0° B	
behind sun end	2086 May 01 23:46	12° B 15'52		asc. node	2087 Apr 19 22:59	4° B 40'41	
asc. node	2086 May 03 01:58	14° B 36'57		evening rise	2087 Apr 23 08:00	11° B 47'49	
evening rise	2086 May 08 21:36	27° B 07'33			2087 May 02 18:41	0° II	
	2086 May 10 06:29	0° II		evening max el	2087 May 13 13:52	14° II 34'12	21°38'07
	2086 May 28 03:20	0° E		retrograde	2087 May 25 22:18	20° II 37'38	
evening max el	2086 May 31 19:07	3° E 57'23	23°11'39	evening set	2087 May 28 09:57	20° II 23'42	
desc. node	2086 Jun 10 07:38	10° E 05'31		desc. node	2087 May 28 04:40	20° II 26'01	
retrograde	2086 Jun 14 06:57	10° E 41'27		inferior conj	2087 Jun 06 19:48	16° II 22'16	-2°42'45
evening set	2086 Jun 17 22:24	10° E 12'20		minimum elong	2087 Jun 06 12:40	16° II 32'14	2°40'28
min. Earth dist.	2086 Jun 25 04:45	6° E 55'27	0.55661 AU	min. Earth dist.	2087 Jun 06 16:35	16° II 26'46	0.54938 AU
inferior conj	2086 Jun 26 23:54	5° E 52'16	-4°12'27	morning rise	2087 Jun 15 16:18	12° II 26'46	
minimum elong	2086 Jun 26 16:43	6° E 02'49	4°10'58	direct	2087 Jun 18 20:31	12° II 04'40	
morning rise	2086 Jul 05 13:34	1° E 58'42		morning max el	2087 Jul 01 03:50	17° II 52'46	21°57'22
direct	2086 Jul 08 09:01	1° E 39'42			2087 Jul 10 19:22	0° E	
morning max el	2086 Jul 19 02:03	6° E 37'20	20°28'04	asc. node	2087 Jul 16 22:13	10° E 40'11	
asc. node	2086 Jul 30 01:11	21° E 30'51		morning set	2087 Jul 22 06:05	21° E 21'07	
	2086 Aug 03 14:29	0° O			2087 Jul 26 08:26	0° O	
morning set	2086 Aug 06 20:35	6° O 32'16					
superior conj	2086 Aug 14 10:56	22° O 10'10	1°45'16	superior conj	2087 Jul 29 11:49	6° O 38'30	1°39'33
minimum elong	2086 Aug 14 10:27	22° O 07'46	1°45'16	minimum elong	2087 Jul 29 10:10	6° O 29'49	1°39'26
	2086 Aug 18 09:05	0° np		max. Earth dist.	2087 Aug 02 01:23	14° O 01'39	1.34657 AU
max. Earth dist.	2086 Aug 19 11:02	2° np 06'21	1.36250 AU	evening rise	2087 Aug 06 14:32	23° O 03'36	
evening rise	2086 Aug 23 10:38	9° np 38'08			2087 Aug 10 06:57	0° np	
	2086 Sep 04 07:47	0° E		desc. node	2087 Aug 24 03:58	23° np 04'39	
desc. node	2086 Sep 06 06:56	3° E 04'49			2087 Aug 28 23:44	0° E	
	2086 Sep 26 16:37	0° M		evening max el	2087 Sep 10 16:02	15° E 02'23	26°56'43
evening max el	2086 Sep 28 03:37	1° M 27'37	26°05'30	retrograde	2087 Sep 23 20:10	22° E 18'48	
retrograde	2086 Oct 10 17:24	8° M 35'35		evening set	2087 Sep 30 14:45	19° E 35'51	
evening set	2086 Oct 16 23:36	5° M 59'45		min. Earth dist.	2087 Oct 04 13:23	15° E 40'40	0.65528 AU
min. Earth dist.	2086 Oct 21 05:07	1° M 28'03	0.66617 AU	inferior conj	2087 Oct 06 11:30	13° E 27'38	-2°08'01
	2086 Oct 22 09:24	30° R E		minimum elong	2087 Oct 06 14:56	13° E 17'44	2°06'41
inferior conj	2086 Oct 22 15:14	29° E 41'47	-1°09'24	morning rise	2087 Oct 12 15:49	7° E 48'58	
minimum elong	2086 Oct 22 17:04	29° E 36'06	1°08'38	asc. node	2087 Oct 12 21:25	7° E 42'10	
asc. node	2086 Oct 26 00:24	25° E 48'08		direct	2087 Oct 15 10:55	7° E 06'09	
morning rise	2086 Oct 28 10:55	23° E 50'49		morning max el	2087 Oct 21 23:58	10° E 39'02	18°15'49
direct	2086 Oct 31 14:06	22° E 54'38			2087 Nov 04 12:27	0° M	
morning max el	2086 Nov 07 10:28	26° E 43'06	18°53'27	morning set	2087 Nov 09 21:31	8° M 46'17	
	2086 Nov 10 08:04	0° M		desc. node	2087 Nov 20 03:15	25° M 18'15	
morning set	2086 Nov 29 06:22	28° M 20'07			2087 Nov 23 02:10	0° X	
	2086 Nov 30 07:47	0° X		superior conj	2087 Nov 24 20:04	2° X 45'38	-0°31'11
desc. node	2086 Dec 03 06:13	4° X 36'35		minimum elong	2087 Nov 24 16:02	2° X 29'44	0°30'38
max. Earth dist.	2086 Dec 14 08:58	22° X 03'11	1.45021 AU	max. Earth dist.	2087 Nov 27 04:16	6° X 26'59	1.45100 AU
superior conj	2086 Dec 15 17:59	24° X 13'05	-1°17'28	evening rise	2087 Dec 11 04:21	28° X 20'59	
minimum elong	2086 Dec 15 09:20	23° X 39'00	1°16'30		2087 Dec 12 05:44	0° Z	
	2086 Dec 19 09:55	0° Z		greatest brilliancy	2087 Dec 22 19:25	16° Z 23'19	-0.7m

	2088 Jan 01 09:31	0°♊		max. Earth dist.	2088 Nov 08 22:48	20°♎46'16	1.44444 AU
evening max el	2088 Jan 04 03:21	3°♊07'36	19°25'58		2088 Nov 14 19:32	0°♎	
asc. node	2088 Jan 08 20:43	6°♊42'46		evening rise	2088 Nov 19 15:30	7°♎29'03	
retrograde	2088 Jan 11 07:44	7°♊15'45			2088 Dec 04 13:58	0°♏	
evening set	2088 Jan 14 18:49	6°♊05'37		evening max el	2088 Dec 17 06:28	16°♏37'28	20°24'35
inferior conj	2088 Jan 20 07:23	0°♊11'30	3°11'20	retrograde	2088 Dec 25 05:40	21°♏19'00	
minimum elong	2088 Jan 20 04:58	0°♊19'24	3°10'49	asc. node	2088 Dec 25 17:44	21°♏17'36	
	2088 Jan 20 10:56	30°♋♏		evening set	2088 Dec 29 01:20	19°♏54'32	
min. Earth dist.	2088 Jan 21 13:13	28°♏34'39	0.66374 AU	inferior conj	2089 Jan 03 10:57	13°♏47'33	2°38'48
morning rise	2088 Jan 25 14:53	23°♏59'08		minimum elong	2089 Jan 03 08:19	13°♏56'27	2°38'03
direct	2088 Jan 31 20:44	21°♏13'03		min. Earth dist.	2089 Jan 04 03:24	12°♏51'43	0.67234 AU
morning max el	2088 Feb 13 07:50	28°♏36'42	25°57'50	morning rise	2089 Jan 08 15:09	7°♏34'17	
	2088 Feb 14 15:57	0°♋		direct	2089 Jan 14 06:57	5°♏03'41	
desc. node	2088 Feb 16 02:28	1°♋34'19		morning max el	2089 Jan 25 16:24	11°♏51'28	24°35'53
	2088 Mar 07 15:20	0°♌		desc. node	2089 Feb 01 23:30	20°♏14'42	
morning set	2088 Mar 20 13:14	22°♌11'24			2089 Feb 09 05:43	0°♋	
max. Earth dist.	2088 Mar 24 10:33	29°♌31'49	1.35544 AU		2089 Feb 28 09:30	0°♌	
	2088 Mar 24 16:23	0°♍		morning set	2089 Mar 02 16:59	4°♌01'06	
				max. Earth dist.	2089 Mar 06 08:49	10°♌34'23	1.37456 AU
superior conj	2088 Mar 29 17:49	10°♍01'15	-1°08'42				
minimum elong	2088 Mar 29 21:15	10°♍18'37	1°08'06	superior conj	2089 Mar 13 02:17	23°♌14'23	-1°33'55
asc. node	2088 Apr 05 20:01	24°♍35'17		minimum elong	2089 Mar 13 06:33	23°♌35'06	1°33'23
evening rise	2088 Apr 06 15:00	26°♍12'37			2089 Mar 16 12:58	0°♍	
	2088 Apr 08 11:49	0°♎		evening rise	2089 Mar 21 16:17	10°♍14'45	
evening max el	2088 Apr 24 19:06	25°♎41'52	20°17'26	asc. node	2089 Mar 23 17:04	14°♍15'46	
	2088 May 01 01:12	0°♎			2089 Apr 01 12:52	0°♎	
retrograde	2088 May 05 11:49	0°♎52'52		evening max el	2089 Apr 07 11:56	7°♎29'04	19°15'15
evening set	2088 May 07 12:44	0°♎42'23		retrograde	2089 Apr 16 12:30	11°♎51'12	
	2088 May 10 04:10	30°♏♏		evening set	2089 Apr 18 14:52	11°♏38'01	
desc. node	2088 May 14 01:41	28°♏11'49		inferior conj	2089 Apr 26 23:33	7°♏28'23	1°07'15
inferior conj	2088 May 16 15:01	26°♏44'02	-0°44'48	minimum elong	2089 Apr 27 02:11	7°♏23'58	1°06'22
minimum elong	2088 May 16 12:55	26°♏47'08	0°44'01	min. Earth dist.	2089 Apr 29 20:13	5°♏34'10	0.56298 AU
min. Earth dist.	2088 May 18 05:19	25°♏47'47	0.55167 AU	desc. node	2089 Apr 30 22:41	4°♏52'34	
morning rise	2088 May 25 11:43	22°♏27'31		morning rise	2089 May 05 10:32	2°♏37'56	
direct	2088 May 29 08:08	21°♏55'24		direct	2089 May 10 06:32	1°♏44'03	
morning max el	2088 Jun 11 21:01	28°♏32'16	23°38'19	morning max el	2089 May 24 11:28	8°♏58'56	25°18'05
	2088 Jun 13 08:36	0°♎			2089 Jun 09 03:59	0°♎	
asc. node	2088 Jul 02 19:15	0°♏13'24		asc. node	2089 Jun 19 16:19	20°♎03'51	
	2088 Jul 02 16:36	0°♏		morning set	2089 Jun 20 05:20	21°♎12'20	
morning set	2088 Jul 05 17:33	6°♏16'13			2089 Jun 24 07:22	0°♏	
superior conj	2088 Jul 12 18:28	21°♏23'47	1°28'05	superior conj	2089 Jun 27 04:38	6°♏18'53	1°11'54
minimum elong	2088 Jul 12 16:12	21°♏11'30	1°27'49	minimum elong	2089 Jun 27 02:14	6°♏05'50	1°11'31
max. Earth dist.	2088 Jul 15 01:06	26°♏15'57	1.33451 AU	max. Earth dist.	2089 Jun 28 08:16	8°♏49'46	1.32642 AU
	2088 Jul 16 19:39	0°♏		evening rise	2089 Jul 04 07:29	21°♏31'37	
evening rise	2088 Jul 20 06:39	7°♏04'52			2089 Jul 08 13:12	0°♏	
	2088 Aug 01 19:49	0°♐			2089 Jul 26 20:21	0°♐	
desc. node	2088 Aug 10 01:00	12°♐35'13		desc. node	2089 Jul 27 22:00	1°♐24'34	
evening max el	2088 Aug 23 03:36	28°♐20'12	27°23'31	evening max el	2089 Aug 05 12:10	11°♐08'28	27°20'08
	2088 Aug 24 23:34	0°♑		retrograde	2089 Aug 19 07:20	18°♐24'39	
retrograde	2088 Sep 05 16:54	5°♑38'02		evening set	2089 Aug 26 12:00	15°♐57'19	
evening set	2088 Sep 12 20:03	2°♑56'51		min. Earth dist.	2089 Aug 30 02:04	13°♐05'13	0.62312 AU
	2088 Sep 16 03:33	30°♋♐		inferior conj	2089 Sep 02 00:52	10°♐20'02	-3°58'01
min. Earth dist.	2088 Sep 16 12:50	29°♐36'32	0.64085 AU	minimum elong	2089 Sep 02 06:16	10°♐07'26	3°56'40
inferior conj	2088 Sep 18 23:40	27°♐02'29	-3°05'32	morning rise	2089 Sep 09 02:02	5°♐16'18	
minimum elong	2088 Sep 19 04:29	26°♐49'53	3°03'56	direct	2089 Sep 11 12:27	4°♐50'02	
morning rise	2088 Sep 25 13:58	21°♐39'37		asc. node	2089 Sep 15 15:30	6°♐07'46	
direct	2088 Sep 28 03:27	21°♐06'37		morning max el	2089 Sep 18 07:40	8°♐17'17	17°52'47
asc. node	2088 Sep 28 18:27	21°♐08'37			2089 Oct 02 11:46	0°♑	
morning max el	2088 Oct 04 15:59	24°♐32'27	17°55'19	morning set	2089 Oct 04 08:28	3°♑20'28	
	2088 Oct 09 02:48	0°♑					
morning set	2088 Oct 21 16:11	20°♑32'21		superior conj	2089 Oct 15 09:33	22°♑46'52	0°55'53
	2088 Oct 27 05:50	0°♒		minimum elong	2089 Oct 15 14:00	23°♑05'48	0°55'19
					2089 Oct 19 16:37	0°♒	
superior conj	2088 Nov 03 13:34	12°♒06'49	0°16'31	max. Earth dist.	2089 Oct 22 13:22	4°♒42'16	1.43143 AU
minimum elong	2088 Nov 03 15:25	12°♒14'18	0°16'16	desc. node	2089 Oct 23 21:18	6°♒51'39	
desc. node	2088 Nov 06 00:16	16°♒04'14		evening rise	2089 Oct 30 01:29	16°♒39'23	

































































































































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evening max el	2089 Nov 30 03:55	0°♊08'02	21°35'11		2090 Oct 12 06:07	0°♊	
	2089 Nov 30 00:47	0°♊			2090 Nov 01 13:28	0°♊	
retrograde	2089 Dec 09 02:58	5°♊27'57		evening max el	2090 Nov 12 20:22	13°♊40'36	22°53'24
asc. node	2089 Dec 12 14:46	4°♊20'50		retrograde	2090 Nov 22 21:58	19°♊39'09	
evening set	2089 Dec 13 09:01	3°♊47'49		evening set	2090 Nov 27 16:14	17°♊42'21	
	2089 Dec 16 21:38	30°♊♊		asc. node	2090 Nov 29 11:49	15°♊55'29	
inferior conj	2089 Dec 18 17:28	27°♊31'20	1°58'23	inferior conj	2090 Dec 03 00:59	11°♊20'13	1°11'34
minimum elong	2089 Dec 18 15:09	27°♊39'21	1°57'34	minimum elong	2090 Dec 02 23:25	11°♊25'40	1°10'55
min. Earth dist.	2089 Dec 18 22:04	27°♊15'24	0.67711 AU	min. Earth dist.	2090 Dec 02 18:44	11°♊41'48	0.67835 AU
morning rise	2089 Dec 23 21:07	21°♊18'54		morning rise	2090 Dec 08 06:29	5°♊10'40	
direct	2089 Dec 28 21:52	19°♊09'11		direct	2090 Dec 12 16:35	3°♊23'40	
morning max el	2090 Jan 08 01:43	25°♊11'19	23°07'24	morning max el	2090 Dec 21 15:06	8°♊38'02	21°41'39
	2090 Jan 12 09:58	0°♊		desc. node	2091 Jan 06 17:35	29°♊26'57	
desc. node	2090 Jan 19 20:32	9°♊36'09			2091 Jan 07 02:42	0°♊	
	2090 Feb 02 18:05	0°♊		morning set	2091 Jan 22 16:45	23°♊45'18	
morning set	2090 Feb 11 19:27	14°♊34'59			2091 Jan 26 13:44	0°♊	
max. Earth dist.	2090 Feb 16 03:47	21°♊58'10	1.39590 AU	max. Earth dist.	2091 Jan 29 02:51	4°♊11'20	1.41678 AU
	2090 Feb 20 17:02	0°♊					
				superior conj	2091 Feb 05 17:51	17°♊10'05	-2°04'29
superior conj	2090 Feb 23 19:59	5°♊41'19	-1°53'51	minimum elong	2091 Feb 05 19:04	17°♊15'23	2°04'28
minimum elong	2090 Feb 23 23:49	5°♊59'04	1°53'35		2091 Feb 12 22:09	0°♊	
evening rise	2090 Mar 05 08:58	23°♊46'44		evening rise	2091 Feb 16 13:31	6°♊40'18	
	2090 Mar 08 15:23	0°♊		asc. node	2091 Feb 25 11:09	22°♊31'35	
asc. node	2090 Mar 10 14:06	3°♊36'43			2091 Mar 02 12:50	0°♊	
evening max el	2090 Mar 21 14:28	19°♊52'51	18°33'12	evening max el	2091 Mar 04 23:29	2°♊44'46	18°11'10
retrograde	2090 Mar 29 07:17	23°♊39'29		retrograde	2091 Mar 11 20:11	6°♊12'18	
evening set	2090 Mar 31 15:29	23°♊19'42		evening set	2091 Mar 14 10:19	5°♊43'27	
inferior conj	2090 Apr 08 04:42	18°♊51'35	2°30'09	inferior conj	2091 Mar 21 06:37	0°♊54'26	3°19'33
minimum elong	2090 Apr 08 08:41	18°♊43'46	2°29'07	minimum elong	2091 Mar 21 09:26	0°♊48'03	3°19'07
min. Earth dist.	2090 Apr 11 14:40	16°♊12'37	0.58101 AU		2091 Mar 22 06:25	30°♊♊	
morning rise	2090 Apr 15 22:50	13°♊28'46		min. Earth dist.	2091 Mar 24 14:40	27°♊53'54	0.60225 AU
desc. node	2090 Apr 17 19:44	12°♊42'08		morning rise	2091 Mar 28 06:23	25°♊09'01	
direct	2090 Apr 21 19:31	12°♊01'17		direct	2091 Apr 03 20:58	23°♊04'54	
morning max el	2090 May 06 04:44	19°♊39'58	26°40'50	desc. node	2091 Apr 04 16:47	23°♊06'47	
	2090 May 14 23:49	0°♊			2091 Apr 17 04:41	0°♊	
	2090 Jun 01 17:12	0°♊		morning max el	2091 Apr 18 03:49	0°♊55'41	27°33'34
morning set	2090 Jun 04 15:46	6°♊03'06			2091 May 09 02:46	0°♊	
asc. node	2090 Jun 06 13:22	10°♊05'16		morning set	2091 May 19 23:08	20°♊42'42	
				asc. node	2091 May 24 10:26	0°♊13'06	
superior conj	2090 Jun 11 16:19	21°♊16'23	0°51'48		2091 May 24 08:01	0°♊	
minimum elong	2090 Jun 11 14:18	21°♊05'15	0°51'24	max. Earth dist.	2091 May 26 07:38	4°♊19'37	1.32210 AU
max. Earth dist.	2090 Jun 11 19:39	21°♊34'43	1.32229 AU				
	2090 Jun 15 16:00	0°♊		superior conj	2091 May 27 03:50	6°♊10'30	0°28'28
evening rise	2090 Jun 18 14:08	6°♊14'14		minimum elong	2091 May 27 02:36	6°♊03'39	0°28'12
	2090 Jul 01 03:17	0°♊		evening rise	2091 Jun 03 00:23	21°♊05'16	
desc. node	2090 Jul 14 19:02	19°♊14'44			2091 Jun 07 08:29	0°♊	
evening max el	2090 Jul 18 15:15	23°♊15'04	26°43'41		2091 Jun 26 04:16	0°♊	
	2090 Jul 29 05:30	0°♊		evening max el	2091 Jun 30 11:23	4°♊35'10	25°36'12
retrograde	2090 Aug 01 14:20	0°♊28'21		desc. node	2091 Jul 01 16:03	5°♊41'13	
	2090 Aug 04 21:39	30°♊♊		retrograde	2091 Jul 14 11:45	11°♊43'38	
evening set	2090 Aug 08 10:01	28°♊28'39		evening set	2091 Jul 20 09:29	10°♊21'35	
min. Earth dist.	2090 Aug 12 05:05	25°♊51'25	0.60302 AU	min. Earth dist.	2091 Jul 24 23:36	7°♊41'29	0.58254 AU
inferior conj	2090 Aug 15 11:38	23°♊10'48	-4°39'08	inferior conj	2091 Jul 28 04:27	5°♊25'14	-4°58'39
minimum elong	2090 Aug 15 15:56	23°♊01'59	4°38'30	minimum elong	2091 Jul 28 05:07	5°♊24'02	4°58'39
morning rise	2090 Aug 22 23:49	18°♊28'46		morning rise	2091 Aug 05 03:08	1°♊05'41	
direct	2090 Aug 25 09:54	18°♊06'39		direct	2091 Aug 07 15:34	0°♊45'45	
morning max el	2090 Sep 01 19:46	21°♊44'22	18°09'22	morning max el	2091 Aug 16 01:03	4°♊44'25	18°46'26
asc. node	2090 Sep 02 12:35	22°♊26'40		asc. node	2091 Aug 20 09:39	9°♊50'05	
	2090 Sep 08 04:39	0°♊			2091 Aug 31 23:27	0°♊	
morning set	2090 Sep 17 16:24	16°♊53'10		morning set	2091 Sep 01 11:22	0°♊58'06	
	2090 Sep 24 17:08	0°♊					
				superior conj	2091 Sep 10 01:42	17°♊38'52	1°39'19
superior conj	2090 Sep 27 07:18	4°♊42'19	1°23'22	minimum elong	2091 Sep 10 04:01	17°♊49'47	1°39'11
minimum elong	2090 Sep 27 11:20	5°♊00'26	1°22'57		2091 Sep 16 19:05	0°♊	
max. Earth dist.	2090 Oct 04 22:23	18°♊00'04	1.41367 AU	max. Earth dist.	2091 Sep 17 03:09	0°♊35'45	1.39344 AU
evening rise	2090 Oct 10 02:30	26°♊32'50		evening rise	2091 Sep 21 02:56	7°♊31'31	

desc. node	2091 Sep 27 15:21	18°♄15'50		evening rise	2092 Sep 02 02:38	19°♎35'40	
	2091 Oct 05 06:17	0°♍			2092 Sep 08 02:50	0°♄	
evening max el	2091 Oct 26 09:38	27°♍16'58	24°13'17	desc. node	2092 Sep 13 12:23	8°♄44'45	
	2091 Oct 29 09:03	0°♌			2092 Sep 28 08:39	0°♍	
retrograde	2091 Nov 06 13:18	3°♌49'12		evening max el	2092 Oct 07 21:42	10°♍56'52	25°27'52
evening set	2091 Nov 11 21:18	1°♌35'34		retrograde	2092 Oct 20 00:13	17°♍54'21	
	2091 Nov 13 12:32	30°♍		evening set	2092 Oct 25 22:34	15°♍25'24	
asc. node	2091 Nov 16 08:53	26°♍28'44		min. Earth dist.	2092 Oct 30 08:18	10°♍33'16	0.67087 AU
min. Earth dist.	2091 Nov 16 14:57	26°♍08'23	0.67629 AU	inferior conj	2092 Oct 31 11:57	9°♍04'14	-0°36'07
inferior conj	2091 Nov 17 07:45	25°♍11'49	0°19'37	minimum elong	2092 Oct 31 12:53	9°♍01'15	0°35'43
minimum elong	2091 Nov 17 07:16	25°♍13'26	0°19'25	asc. node	2092 Nov 02 05:54	6°♍52'21	
morning rise	2091 Nov 22 17:14	19°♍07'31		morning rise	2092 Nov 06 03:25	3°♍07'48	
direct	2091 Nov 26 13:54	17°♍42'28		direct	2092 Nov 09 12:26	2°♍02'05	
morning max el	2091 Dec 04 11:32	22°♍15'02	20°25'20	morning max el	2092 Nov 16 15:54	6°♍03'19	19°22'37
	2091 Dec 10 23:40	0°♌		greatest brilliancy	2092 Nov 30 08:47	24°♍32'17	-0.7m
desc. node	2091 Dec 24 14:36	19°♌38'37			2092 Dec 03 22:44	0°♌	
	2091 Dec 31 09:32	0°♍		desc. node	2092 Dec 10 11:38	10°♌05'40	
morning set	2092 Jan 01 15:50	1°♍57'06		morning set	2092 Dec 10 15:27	10°♌20'27	
max. Earth dist.	2092 Jan 11 09:57	17°♍20'38	1.43440 AU		2092 Dec 23 05:27	0°♍	
				max. Earth dist.	2092 Dec 24 00:15	1°♍14'12	1.44642 AU
superior conj	2092 Jan 17 14:50	27°♍28'39	-2°00'50	superior conj	2092 Dec 27 09:52	6°♍38'06	-1°38'38
minimum elong	2092 Jan 17 10:58	27°♍12'37	2°00'40	minimum elong	2092 Dec 27 01:24	6°♍04'23	1°37'54
	2092 Jan 19 03:11	0°♎		evening rise	2093 Jan 10 17:13	29°♍57'20	
evening rise	2092 Jan 30 01:39	18°♎45'56			2093 Jan 10 17:52	0°♎	
	2092 Feb 05 12:32	0°♏		asc. node	2093 Jan 29 05:13	28°♎25'30	
asc. node	2092 Feb 12 08:12	10°♏51'15		evening max el	2093 Jan 29 24:00	29°♎15'07	18°24'48
evening max el	2092 Feb 16 11:37	15°♏54'28	18°08'36		2093 Jan 30 18:33	0°♏	
retrograde	2092 Feb 22 23:17	19°♏18'13		retrograde	2093 Feb 05 12:07	2°♏48'02	
evening set	2092 Feb 25 18:43	18°♏38'59		evening set	2093 Feb 08 12:50	1°♏57'42	
inferior conj	2092 Mar 03 01:54	13°♏29'18	3°40'54		2093 Feb 11 03:39	30°♏	
minimum elong	2092 Mar 03 02:43	13°♏27'09	3°40'51	inferior conj	2093 Feb 14 10:30	26°♎28'54	3°41'04
min. Earth dist.	2092 Mar 05 22:35	10°♏32'04	0.62333 AU	minimum elong	2093 Feb 14 09:35	26°♎31'33	3°41'01
morning rise	2092 Mar 09 09:30	7°♏30'06		min. Earth dist.	2093 Feb 16 16:05	23°♎54'28	0.64194 AU
direct	2092 Mar 16 07:48	4°♏56'55		morning rise	2093 Feb 20 05:44	20°♎21'45	
desc. node	2092 Mar 21 13:48	6°♏14'09		direct	2093 Feb 27 02:31	17°♎32'43	
morning max el	2092 Mar 30 08:46	12°♏52'14	27°49'44	desc. node	2093 Mar 08 10:50	21°♎34'57	
	2092 Apr 13 00:49	0°♐		morning max el	2093 Mar 12 17:39	25°♎25'26	27°29'26
	2092 Apr 30 12:25	0°♑			2093 Mar 16 22:35	0°♏	
morning set	2092 May 03 01:18	5°♑03'40			2093 Apr 06 12:27	0°♐	
max. Earth dist.	2092 May 08 16:23	16°♑51'06	1.32583 AU	morning set	2093 Apr 16 19:43	18°♐57'53	
asc. node	2092 May 10 07:29	20°♑22'21		max. Earth dist.	2093 Apr 21 17:51	28°♐56'31	1.33372 AU
					2093 Apr 22 06:02	0°♑	
superior conj	2092 May 10 13:25	20°♑54'32	0°02'37	superior conj	2093 Apr 24 19:10	5°♑22'30	-0°24'55
minimum elong	2092 May 10 13:17	20°♑53'50	0°02'36	minimum elong	2093 Apr 24 20:24	5°♑29'07	0°24'39
behind sun begin	2092 May 10 08:10	20°♑26'05		asc. node	2093 Apr 27 04:31	10°♑29'14	
behind sun end	2092 May 10 18:24	21°♑21'37		evening rise	2093 May 01 23:35	20°♑43'23	
	2092 May 14 17:38	0°♒			2093 May 06 12:36	0°♒	
evening rise	2092 May 17 12:09	5°♒57'07		evening max el	2093 May 23 16:40	25°♒45'05	22°30'43
	2092 May 30 05:57	0°♓			2093 May 29 03:21	0°♓	
evening max el	2092 Jun 11 01:53	15°♓16'33	24°06'55	desc. node	2093 Jun 04 10:05	2°♓10'18	
desc. node	2092 Jun 17 13:04	20°♓11'34		retrograde	2093 Jun 05 18:39	2°♓14'31	
retrograde	2092 Jun 24 21:16	22°♓13'34		evening set	2093 Jun 08 20:40	1°♓53'33	
evening set	2092 Jun 29 09:45	21°♓28'18			2093 Jun 13 22:42	30°♒	
min. Earth dist.	2092 Jul 05 12:38	18°♓28'51	0.56456 AU	min. Earth dist.	2093 Jun 17 00:02	28°♒21'30	0.55247 AU
inferior conj	2092 Jul 08 01:03	16°♓55'16	-4°42'43	inferior conj	2093 Jun 18 03:32	27°♒42'28	-3°39'38
minimum elong	2092 Jul 07 20:19	17°♓02'38	4°42'08	minimum elong	2093 Jun 17 19:35	27°♒53'45	3°37'33
morning rise	2092 Jul 16 09:32	12°♓55'12		morning rise	2093 Jun 26 20:40	23°♒50'50	
direct	2092 Jul 19 02:14	12°♓36'07		direct	2093 Jun 29 19:13	23°♒31'07	
morning max el	2092 Jul 28 20:37	17°♓08'05	19°44'59	morning max el	2093 Jul 11 04:51	28°♒48'57	21°04'09
asc. node	2092 Aug 06 06:42	28°♓03'47			2093 Jul 12 10:03	0°♓	
	2092 Aug 07 10:33	0°♑		asc. node	2093 Jul 24 03:44	16°♓55'42	
morning set	2092 Aug 15 13:57	15°♑25'57		morning set	2093 Jul 30 21:31	0°♑08'58	
	2092 Aug 22 18:57	0°♒			2093 Jul 30 19:47	0°♑	
superior conj	2092 Aug 23 11:20	1°♒21'23	1°45'27	superior conj	2093 Aug 07 07:40	15°♑36'21	1°43'37
minimum elong	2092 Aug 23 11:46	1°♒23'36	1°45'28				
max. Earth dist.	2092 Aug 29 07:41	12°♒38'53	1.37321 AU				

minimum elong	2093 Aug 07 06:38	15°Ω30'59	1°43'35	minimum elong	2094 Jul 22 09:24	0°Ω03'16	1°35'09
max. Earth dist.	2093 Aug 11 17:04	24°Ω29'32	1.35524 AU		2094 Jul 22 08:47	0°Ω	
	2093 Aug 14 12:55	0°Π		max. Earth dist.	2094 Jul 25 11:13	6°Ω31'24	1.34091 AU
evening rise	2093 Aug 15 21:32	2°Π34'54		evening rise	2094 Jul 30 07:10	16°Ω17'43	
desc. node	2093 Aug 31 09:24	28°Π57'19			2094 Aug 06 15:30	0°Π	
	2093 Sep 01 01:54	0°Ω		desc. node	2094 Aug 18 06:26	18°Π46'18	
evening max el	2093 Sep 20 09:42	24°Ω34'56	26°29'46		2094 Aug 26 13:57	0°Ω	
	2093 Sep 27 07:43	0°Π		evening max el	2094 Sep 02 21:48	8°Ω03'44	27°11'23
retrograde	2093 Oct 03 06:08	1°Π47'50		retrograde	2094 Sep 16 06:40	15°Ω22'17	
	2093 Oct 08 14:34	30°RΩ		evening set	2094 Sep 23 05:27	12°Ω38'36	
evening set	2093 Oct 09 18:05	29°Ω07'44		min. Earth dist.	2094 Sep 27 01:16	8°Ω58'42	0.64958 AU
min. Earth dist.	2093 Oct 13 20:28	24°Ω51'54	0.66198 AU	inferior conj	2094 Sep 29 04:51	6°Ω35'29	-2°32'47
inferior conj	2093 Oct 15 11:42	22°Ω53'27	-1°34'15	minimum elong	2094 Sep 29 08:55	6°Ω24'11	2°31'16
minimum elong	2093 Oct 15 14:13	22°Ω45'51	1°33'13	morning rise	2094 Oct 05 13:19	1°Ω03'15	
asc. node	2093 Oct 20 02:55	18°Ω01'15		asc. node	2094 Oct 06 23:57	0°Ω33'21	
morning rise	2093 Oct 21 10:55	17°Ω07'38		direct	2094 Oct 08 05:35	0°Ω25'12	
direct	2093 Oct 24 10:20	16°Ω17'42		morning max el	2094 Oct 14 17:45	3°Ω54'19	18°04'53
morning max el	2093 Oct 31 02:47	19°Ω58'16	18°35'27		2094 Nov 01 03:14	0°Π	
	2093 Nov 07 20:52	0°Π		morning set	2094 Nov 01 16:57	0°Π57'03	
morning set	2093 Nov 20 13:34	19°Π55'20		desc. node	2094 Nov 14 05:42	21°Π26'57	
	2093 Nov 26 21:47	0°X					
desc. node	2093 Nov 27 08:40	0°X43'02		superior conj	2094 Nov 15 18:50	23°Π55'20	-0°10'25
				minimum elong	2094 Nov 15 17:32	23°Π50'09	0°10'14
superior conj	2093 Dec 06 12:23	15°X07'47	-0°58'48	behind sun begin	2094 Nov 15 09:08	23°Π16'40	
minimum elong	2093 Dec 06 05:05	14°X39'09	0°57'54	behind sun end	2094 Nov 16 01:56	24°Π23'37	
max. Earth dist.	2093 Dec 06 18:16	15°X30'54	1.45144 AU	max. Earth dist.	2094 Nov 19 12:59	29°Π52'40	1.44906 AU
	2093 Dec 15 23:16	0°Z			2094 Nov 19 14:51	0°X	
evening rise	2093 Dec 22 09:27	10°Z11'06		evening rise	2094 Dec 02 04:28	19°X35'40	
greatest brilliancy	2093 Dec 31 00:47	23°Z54'56	-0.8m		2094 Dec 08 22:32	0°Z	
	2094 Jan 03 22:44	0°≈		greatest brilliancy	2094 Dec 15 15:52	10°Z11'28	-0.7m
evening max el	2094 Jan 13 10:10	12°≈41'33	18°58'54	evening max el	2094 Dec 27 16:18	26°Z10'59	19°49'18
asc. node	2094 Jan 16 02:13	15°≈01'29			2095 Jan 01 16:53	0°≈	
retrograde	2094 Jan 20 06:46	16°≈34'34		asc. node	2095 Jan 02 23:15	0°≈24'45	
evening set	2094 Jan 23 13:35	15°≈32'08		retrograde	2095 Jan 04 04:09	0°≈32'46	
inferior conj	2094 Jan 29 04:46	9°≈46'31	3°25'41		2095 Jan 06 13:06	30°RZ	
minimum elong	2094 Jan 29 02:43	9°≈52'59	3°25'21	evening set	2095 Jan 07 18:35	29°Z16'56	
min. Earth dist.	2094 Jan 30 19:00	7°≈46'45	0.65690 AU	inferior conj	2095 Jan 13 05:41	23°Z17'05	2°58'36
morning rise	2094 Feb 03 15:30	3°≈35'09		minimum elong	2095 Jan 13 03:06	23°Z25'38	2°57'59
direct	2094 Feb 10 04:04	0°≈44'18		min. Earth dist.	2095 Jan 14 05:42	21°Z57'19	0.66786 AU
morning max el	2094 Feb 23 03:34	8°≈23'25	26°38'06	morning rise	2095 Jan 18 11:23	17°Z03'55	
desc. node	2094 Feb 23 07:52	8°≈34'18		direct	2095 Jan 24 11:32	14°Z23'12	
	2094 Mar 12 00:54	0°X		morning max el	2095 Feb 05 12:29	21°Z33'52	25°24'19
	2094 Mar 29 22:14	0°Y		desc. node	2095 Feb 10 04:54	26°Z44'02	
morning set	2094 Mar 31 02:58	2°Y15'11			2095 Feb 12 20:52	0°≈	
max. Earth dist.	2094 Apr 04 08:31	10°Y28'07	1.34611 AU		2095 Mar 05 06:39	0°X	
				morning set	2095 Mar 13 18:23	14°X41'21	
superior conj	2094 Apr 08 18:56	19°Y28'04	-0°52'56	max. Earth dist.	2095 Mar 17 11:22	21°X32'08	1.36308 AU
minimum elong	2094 Apr 08 21:38	19°Y41'57	0°52'26		2095 Mar 21 20:57	0°Y	
	2094 Apr 13 19:54	0°X					
asc. node	2094 Apr 14 01:33	0°X29'37		superior conj	2095 Mar 23 09:59	3°Y03'00	-1°19'50
evening rise	2094 Apr 16 08:48	5°X17'54		minimum elong	2095 Mar 23 13:52	3°Y22'21	1°19'15
	2094 Apr 30 02:39	0°Π		evening rise	2095 Mar 31 13:40	19°Y33'33	
evening max el	2094 May 05 15:24	6°Π33'05	21°01'50	asc. node	2095 Mar 31 22:35	20°Y18'37	
retrograde	2094 May 17 08:18	12°Π15'29			2095 Apr 05 21:11	0°X	
evening set	2094 May 19 13:02	12°Π04'09		evening max el	2095 Apr 18 01:46	17°X57'47	19°48'41
desc. node	2094 May 22 07:06	11°Π20'27		retrograde	2095 Apr 28 00:50	22°X46'29	
inferior conj	2094 May 28 21:25	8°Π05'55	-1°54'15	evening set	2095 Apr 30 01:20	22°X35'29	
minimum elong	2094 May 28 16:05	8°Π13'28	1°52'23	inferior conj	2095 May 08 20:53	18°X34'13	0°05'15
min. Earth dist.	2094 May 29 12:25	7°Π44'41	0.54908 AU	minimum elong	2095 May 08 21:07	18°X33'52	0°05'10
morning rise	2094 Jun 06 19:04	4°Π03'32		transit middle	2095 May 08 21:07	18°X33'52	0°05'10
direct	2094 Jun 10 04:43	3°Π38'32		transit begin	2095 May 08 17:22	18°X39'38	
morning max el	2094 Jun 23 02:41	9°Π48'42	22°39'33	transit end	2095 May 09 00:52	18°X28'05	
	2094 Jul 07 16:47	0°Ω		desc. node	2095 May 09 04:08	18°X23'02	
asc. node	2094 Jul 11 00:47	6°Ω16'33		min. Earth dist.	2095 May 11 02:15	17°X12'09	0.55542 AU
morning set	2094 Jul 15 08:06	15°Ω01'45		morning rise	2095 May 17 14:34	14°X03'44	
				direct	2095 May 21 20:30	13°X23'46	
superior conj	2094 Jul 22 11:23	0°Ω13'49	1°35'20	morning max el	2095 Jun 04 17:53	20°X19'17	24°21'45

	2095 Jun 12 23:52	0°♂			2096 May 15 12:27	0°♂	
asc. node	2095 Jun 27 21:51	25°♂57'44		morning max el	2096 May 16 08:41	0°♂47'43	25°56'14
morning set	2095 Jun 29 19:54	29°♂57'44			2096 Jun 05 19:50	0°♂	
	2095 Jun 29 20:20	0°♂		morning set	2096 Jun 13 07:19	14°♂51'54	
				asc. node	2096 Jun 13 18:55	15°♂53'16	
superior conj	2095 Jul 06 19:48	15°♂04'12	1°21'46				
minimum elong	2095 Jul 06 17:25	14°♂51'15	1°21'26	superior conj	2096 Jun 20 06:49	0°♂00'40	1°03'49
max. Earth dist.	2095 Jul 08 14:19	18°♂53'56	1.33059 AU	minimum elong	2096 Jun 20 04:32	29°♂48'07	1°03'24
	2095 Jul 13 21:16	0°♂			2096 Jun 20 06:42	0°♂	
evening rise	2095 Jul 14 03:25	0°♂31'17		max. Earth dist.	2096 Jun 20 23:49	1°♂33'56	1.32425 AU
	2095 Jul 30 15:23	0°♂		evening rise	2096 Jun 27 07:03	15°♂05'44	
desc. node	2095 Aug 05 03:27	8°♂01'08			2096 Jul 04 21:16	0°♂	
evening max el	2095 Aug 16 08:32	21°♂11'11	27°26'02	desc. node	2096 Jul 22 00:29	26°♂27'38	
retrograde	2095 Aug 30 00:58	28°♂28'37			2096 Jul 25 00:42	0°♂	
evening set	2095 Sep 06 05:35	25°♂51'59		evening max el	2096 Jul 28 15:18	3°♂43'34	27°08'43
min. Earth dist.	2095 Sep 09 20:44	22°♂44'29	0.63368 AU	retrograde	2096 Aug 11 12:07	10°♂57'37	
inferior conj	2095 Sep 12 12:47	20°♂04'18	-3°28'45	evening set	2096 Aug 18 14:27	8°♂40'48	
minimum elong	2095 Sep 12 17:58	19°♂51'16	3°27'11	min. Earth dist.	2096 Aug 22 05:33	5°♂56'51	0.61480 AU
morning rise	2095 Sep 19 07:37	14°♂48'53		inferior conj	2096 Aug 25 08:18	3°♂11'45	-4°17'22
direct	2095 Sep 21 19:23	14°♂19'10		minimum elong	2096 Aug 25 13:28	3°♂00'16	4°16'17
asc. node	2095 Sep 23 21:01	14°♂40'06			2096 Aug 29 06:44	30°♂	
morning max el	2095 Sep 28 09:58	17°♂44'54	17°51'52	morning rise	2096 Sep 01 14:07	28°♂16'42	
	2095 Oct 07 05:29	0°♂		direct	2096 Sep 04 00:11	27°♂52'21	
morning set	2095 Oct 14 21:39	13°♂12'09			2096 Sep 09 10:39	0°♂	
	2095 Oct 24 16:14	0°♂		asc. node	2096 Sep 09 18:06	0°♂14'49	
				morning max el	2096 Sep 11 00:26	1°♂22'48	17°57'23
superior conj	2095 Oct 26 23:05	3°♂48'43	0°34'35	morning set	2096 Sep 26 21:18	26°♂21'32	
minimum elong	2095 Oct 27 02:29	4°♂02'50	0°34'07		2096 Sep 28 21:02	0°♂	
desc. node	2095 Nov 01 02:44	12°♂14'07					
max. Earth dist.	2095 Nov 02 05:58	14°♂03'36	1.43965 AU	superior conj	2096 Oct 07 06:30	15°♂02'11	1°09'02
evening rise	2095 Nov 11 12:59	28°♂39'39		minimum elong	2096 Oct 07 11:02	15°♂21'56	1°08'30
	2095 Nov 12 09:51	0°♂		max. Earth dist.	2096 Oct 14 18:48	27°♂46'56	1.42439 AU
	2095 Dec 02 18:46	0°♂			2096 Oct 16 03:12	0°♂	
evening max el	2095 Dec 10 17:08	9°♂41'55	20°53'30	desc. node	2096 Oct 17 23:46	3°♂01'01	
retrograde	2095 Dec 19 01:57	14°♂39'04		evening rise	2096 Oct 21 03:47	8°♂04'39	
asc. node	2095 Dec 20 20:17	14°♂21'44			2096 Nov 04 15:06	0°♂	
evening set	2095 Dec 23 01:49	13°♂08'11		evening max el	2096 Nov 22 12:24	23°♂13'37	22°07'52
inferior conj	2095 Dec 28 10:45	6°♂57'02	2°22'31	retrograde	2096 Dec 01 22:20	28°♂49'38	
minimum elong	2095 Dec 28 08:12	7°♂05'46	2°21'43	evening set	2096 Dec 06 09:30	27°♂02'20	
min. Earth dist.	2095 Dec 28 22:04	6°♂18'12	0.67485 AU	asc. node	2096 Dec 06 17:20	26°♂45'49	
morning rise	2096 Jan 02 14:25	0°♂43'59		inferior conj	2096 Dec 11 17:55	20°♂43'07	1°39'12
	2096 Jan 03 11:52	30°♂		minimum elong	2096 Dec 11 15:52	20°♂50'13	1°38'26
direct	2096 Jan 07 23:58	28°♂21'34		min. Earth dist.	2096 Dec 11 17:46	20°♂43'36	0.67812 AU
	2096 Jan 13 00:37	0°♂		morning rise	2096 Dec 16 22:05	14°♂31'56	
morning max el	2096 Jan 18 20:49	4°♂50'22	23°58'24	direct	2096 Dec 21 16:33	12°♂31'53	
desc. node	2096 Jan 28 01:57	15°♂43'51		morning max el	2096 Dec 31 07:24	18°♂12'42	22°30'08
	2096 Feb 07 05:46	0°♂			2097 Jan 10 02:16	0°♂	
morning set	2096 Feb 23 12:06	26°♂00'44		desc. node	2097 Jan 13 22:59	5°♂18'54	
	2096 Feb 25 19:09	0°♂			2097 Jan 30 09:17	0°♂	
max. Earth dist.	2096 Feb 27 07:05	2°♂38'54	1.38352 AU	morning set	2097 Feb 03 02:10	5°♂58'14	
				max. Earth dist.	2097 Feb 08 03:34	14°♂23'38	1.40508 AU
superior conj	2096 Mar 05 12:47	15°♂58'31	-1°43'14				
minimum elong	2096 Mar 05 17:04	16°♂18'56	1°42'48	superior conj	2097 Feb 15 22:39	28°♂02'06	-1°59'48
	2096 Mar 12 18:09	0°♂		minimum elong	2097 Feb 16 01:42	28°♂15'51	1°59'38
evening rise	2096 Mar 14 11:42	3°♂24'02			2097 Feb 17 00:42	0°♂	
asc. node	2096 Mar 17 19:38	9°♂51'42		evening rise	2097 Feb 25 23:39	16°♂40'43	
	2096 Mar 30 22:25	0°♂		asc. node	2097 Mar 04 16:41	29°♂02'26	
evening max el	2096 Mar 30 23:11	0°♂01'51	18°54'54		2097 Mar 05 05:53	0°♂	
retrograde	2096 Apr 08 08:34	4°♂06'27		evening max el	2097 Mar 14 04:47	12°♂38'11	18°21'20
evening set	2096 Apr 10 13:28	3°♂50'43		retrograde	2097 Mar 21 11:35	16°♂14'55	
	2096 Apr 17 22:54	30°♂		evening set	2097 Mar 23 22:25	15°♂51'25	
inferior conj	2096 Apr 18 13:43	29°♂33'43	1°46'35	inferior conj	2097 Mar 31 03:56	11°♂14'04	2°55'00
minimum elong	2096 Apr 18 17:21	29°♂27'14	1°45'27	minimum elong	2097 Mar 31 07:37	11°♂06'21	2°54'12
min. Earth dist.	2096 Apr 21 18:12	27°♂18'19	0.57010 AU	min. Earth dist.	2097 Apr 03 14:27	8°♂23'05	0.58988 AU
desc. node	2096 Apr 25 01:09	25°♂17'25		morning rise	2097 Apr 07 14:11	5°♂40'26	
morning rise	2096 Apr 26 18:08	24°♂29'02		desc. node	2097 Apr 11 22:10	4°♂06'55	
direct	2096 May 02 01:21	23°♂21'49		direct	2097 Apr 13 19:27	3°♂57'26	

morning max el	2097 Apr 28 04:18	11° Υ 41'42	27°07'39		2098 Apr 16 06:47	0° Υ	
	2097 May 12 11:18	0° \mathcal{B}			2098 May 05 15:33	0° \mathcal{B}	
morning set	2097 May 28 16:41	29° \mathcal{B} 38'51		morning set	2098 May 12 22:05	14° \mathcal{B} 11'39	
	2097 May 28 20:44	0° Π		asc. node	2098 May 18 13:01	26° \mathcal{B} 07'03	
asc. node	2097 May 31 15:59	5° Π 58'03		max. Earth dist.	2098 May 18 23:10	27° \mathcal{B} 02'15	1.32311 AU
superior conj	2097 Jun 04 18:38	14° Π 57'19	0°42'14	superior conj	2098 May 20 05:29	29° \mathcal{B} 47'49	0°17'45
minimum elong	2097 Jun 04 16:53	14° Π 47'44	0°41'54	minimum elong	2098 May 20 04:41	29° \mathcal{B} 43'24	0°17'35
max. Earth dist.	2097 Jun 04 12:06	14° Π 21'23	1.32173 AU		2098 May 20 07:43	0° Π	
evening rise	2097 Jun 11 15:30	29° Π 52'50		evening rise	2098 May 27 02:34	14° Π 44'48	
	2097 Jun 11 16:51	0° \mathcal{E}			2098 Jun 03 17:41	0° \mathcal{E}	
	2097 Jun 28 03:48	0° Ω		evening max el	2098 Jun 22 08:30	26° \mathcal{E} 31'17	25°00'07
desc. node	2097 Jul 08 21:30	13° Ω 45'54		desc. node	2098 Jun 25 18:31	29° \mathcal{E} 27'33	
evening max el	2097 Jul 10 15:28	15° Ω 30'29	26°18'22		2098 Jun 26 12:12	0° Ω	
retrograde	2097 Jul 24 15:07	22° Ω 41'52		retrograde	2098 Jul 06 08:03	3° Ω 37'15	
evening set	2097 Jul 31 03:23	20° Ω 57'08		evening set	2098 Jul 11 16:40	2° Ω 31'30	
min. Earth dist.	2097 Aug 04 04:21	18° Ω 21'20	0.59420 AU		2098 Jul 16 10:39	30° \mathcal{R} \mathcal{E}	
inferior conj	2097 Aug 07 11:50	15° Ω 48'33	-4°50'49	min. Earth dist.	2098 Jul 16 20:02	29° \mathcal{E} 44'58	0.57430 AU
minimum elong	2097 Aug 07 14:55	15° Ω 42'35	4°50'32	inferior conj	2098 Jul 19 20:07	27° \mathcal{E} 44'33	-4°57'09
morning rise	2097 Aug 15 04:35	11° Ω 16'23		minimum elong	2098 Jul 19 18:34	27° \mathcal{E} 47'10	4°57'05
direct	2097 Aug 17 15:31	10° Ω 55'18		morning rise	2098 Jul 27 23:06	23° \mathcal{E} 34'27	
morning max el	2097 Aug 25 10:04	14° Ω 40'06	18°22'39	direct	2098 Jul 30 13:01	23° \mathcal{E} 15'10	
asc. node	2097 Aug 27 15:11	17° Ω 03'26		morning max el	2098 Aug 08 11:37	27° \mathcal{E} 26'21	19°08'48
	2097 Sep 05 00:06	0° \mathcal{M}			2098 Aug 10 21:40	0° Ω	
morning set	2097 Sep 10 10:27	10° \mathcal{M} 10'00		asc. node	2098 Aug 14 12:13	4° Ω 49'58	
				morning set	2098 Aug 25 09:00	24° Ω 25'33	
superior conj	2097 Sep 19 13:50	27° \mathcal{M} 26'42	1°31'26		2098 Aug 28 04:15	0° \mathcal{M}	
minimum elong	2097 Sep 19 17:13	27° \mathcal{M} 42'12	1°31'09				
	2097 Sep 20 23:23	0° \mathcal{L}		superior conj	2098 Sep 02 15:20	10° \mathcal{M} 44'54	1°43'00
max. Earth dist.	2097 Sep 27 02:09	10° \mathcal{L} 49'02	1.40521 AU	minimum elong	2098 Sep 02 16:50	10° \mathcal{M} 52'07	1°42'56
evening rise	2097 Oct 01 14:23	18° \mathcal{L} 25'10		max. Earth dist.	2098 Sep 09 05:42	23° \mathcal{M} 07'05	1.38462 AU
desc. node	2097 Oct 04 20:49	23° \mathcal{L} 44'34		evening rise	2098 Sep 13 01:01	29° \mathcal{M} 52'31	
	2097 Oct 08 19:52	0° \mathcal{M}			2098 Sep 13 02:44	0° \mathcal{L}	
	2097 Oct 30 02:09	0° \mathcal{X}		desc. node	2098 Sep 21 17:51	14° \mathcal{L} 20'06	
evening max el	2097 Nov 05 03:09	6° \mathcal{X} 47'46	23°27'25		2098 Oct 02 04:01	0° \mathcal{M}	
retrograde	2097 Nov 15 15:57	13° \mathcal{X} 01'36		evening max el	2098 Oct 18 15:30	20° \mathcal{M} 25'30	24°46'01
evening set	2097 Nov 20 16:01	10° \mathcal{X} 57'18		retrograde	2098 Oct 30 05:41	27° \mathcal{M} 10'31	
asc. node	2097 Nov 23 14:22	7° \mathcal{X} 50'09		evening set	2098 Nov 04 19:42	24° \mathcal{M} 49'59	
min. Earth dist.	2097 Nov 25 14:29	5° \mathcal{X} 10'57	0.67794 AU	min. Earth dist.	2098 Nov 09 09:51	19° \mathcal{M} 37'23	0.67437 AU
inferior conj	2097 Nov 26 01:19	4° \mathcal{X} 33'49	0°50'05	inferior conj	2098 Nov 10 07:13	18° \mathcal{M} 26'31	-0°03'36
minimum elong	2097 Nov 26 00:10	4° \mathcal{X} 37'45	0°49'36	minimum elong	2098 Nov 10 07:18	18° \mathcal{M} 26'14	0°03'35
	2097 Nov 29 16:02	30° \mathcal{R} \mathcal{M}		transit middle	2098 Nov 10 07:18	18° \mathcal{M} 26'14	0°03'35
morning rise	2097 Dec 01 08:17	28° \mathcal{M} 26'22		transit begin	2098 Nov 10 04:37	18° \mathcal{M} 35'09	
direct	2097 Dec 05 12:24	26° \mathcal{M} 49'11		transit end	2098 Nov 10 10:00	18° \mathcal{M} 17'19	
	2097 Dec 12 03:03	0° \mathcal{X}		asc. node	2098 Nov 10 11:24	18° \mathcal{M} 12'39	
morning max el	2097 Dec 13 23:43	1° \mathcal{X} 44'38	21°07'41	morning rise	2098 Nov 15 19:01	12° \mathcal{M} 25'08	
desc. node	2097 Dec 31 20:01	25° \mathcal{X} 19'37		direct	2098 Nov 19 10:23	11° \mathcal{M} 08'52	
	2098 Jan 03 23:21	0° \mathcal{Z}		morning max el	2098 Nov 26 23:38	15° \mathcal{M} 27'15	19°56'48
morning set	2098 Jan 13 12:11	14° \mathcal{Z} 38'05			2098 Dec 08 06:20	0° \mathcal{X}	
max. Earth dist.	2098 Jan 21 06:06	27° \mathcal{Z} 02'07	1.42487 AU	desc. node	2098 Dec 18 17:05	15° \mathcal{X} 38'52	
	2098 Jan 23 01:24	0° \approx		morning set	2098 Dec 23 08:15	22° \mathcal{X} 45'53	
					2098 Dec 28 00:03	0° \mathcal{Z}	
superior conj	2098 Jan 28 10:21	9° \approx 01'33	-2°04'59	max. Earth dist.	2099 Jan 03 15:57	10° \mathcal{Z} 30'37	1.44028 AU
minimum elong	2098 Jan 28 09:38	8° \approx 58'30	2°04'58				
evening rise	2098 Feb 08 21:44	29° \approx 15'04		superior conj	2099 Jan 08 20:03	18° \mathcal{Z} 50'10	-1°53'48
	2098 Feb 09 07:43	0° \mathcal{H}		minimum elong	2099 Jan 08 13:51	18° \mathcal{Z} 24'57	1°53'26
asc. node	2098 Feb 19 13:42	17° \mathcal{H} 43'28			2099 Jan 15 14:17	0° \approx	
evening max el	2098 Feb 25 15:23	25° \mathcal{H} 38'10	18°07'41	evening rise	2099 Jan 22 01:39	10° \approx 59'00	
retrograde	2098 Mar 04 07:11	29° \mathcal{H} 02'45			2099 Feb 02 10:08	0° \mathcal{H}	
evening set	2098 Mar 06 23:30	28° \mathcal{H} 29'44		asc. node	2099 Feb 06 10:43	5° \mathcal{H} 45'54	
inferior conj	2098 Mar 13 13:44	23° \mathcal{H} 31'44	3°31'38	evening max el	2099 Feb 09 03:59	8° \mathcal{H} 54'04	18°13'16
minimum elong	2098 Mar 13 15:43	23° \mathcal{H} 26'57	3°31'24	retrograde	2099 Feb 15 14:54	12° \mathcal{H} 20'19	
min. Earth dist.	2098 Mar 16 17:41	20° \mathcal{H} 29'36	0.61135 AU	evening set	2099 Feb 18 12:26	11° \mathcal{H} 36'37	
morning rise	2098 Mar 20 06:10	17° \mathcal{H} 39'08		inferior conj	2099 Feb 24 15:12	6° \mathcal{H} 18'51	3°43'09
direct	2098 Mar 27 01:03	15° \mathcal{H} 21'20		minimum elong	2099 Feb 24 15:14	6° \mathcal{H} 18'48	3°43'09
desc. node	2098 Mar 29 19:12	15° \mathcal{H} 42'33		min. Earth dist.	2099 Feb 27 05:50	3° \mathcal{H} 29'00	0.63163 AU
morning max el	2098 Apr 10 06:16	23° \mathcal{H} 15'39	27°45'09	morning rise	2099 Mar 02 17:03	0° \mathcal{H} 15'37	

	2099 Mar 03 01:17	30° 		minimum elong	2100 Feb 08 02:51	19°  31'25	3°35'59
direct	2099 Mar 09 15:46	27°  33'32		min. Earth dist.	2100 Feb 10 03:21	17°  06'13	0.64885 AU
desc. node	2099 Mar 16 16:13	29°  51'34		morning rise	2100 Feb 13 19:31	13°  17'55	
	2099 Mar 16 21:39	0° 		direct	2100 Feb 20 13:39	10°  26'18	
morning max el	2099 Mar 23 13:12	5°  29'39	27°45'16	desc. node	2100 Mar 03 13:16	15°  58'23	
	2099 Apr 11 02:10	0° 		morning max el	2100 Mar 05 22:36	18°  14'22	27°10'50
morning set	2099 Apr 26 21:19	28°  23'04			2100 Mar 15 20:32	0° 	
	2099 Apr 27 16:34	0° 			2100 Apr 04 00:12	0° 	
max. Earth dist.	2099 May 02 05:06	9°  23'39	1.32858 AU	morning set	2100 Apr 10 11:26	12°  02'51	
				max. Earth dist.	2100 Apr 15 02:08	21°  14'18	1.33847 AU
superior conj	2099 May 04 13:42	14°  26'32	-0°08'56				
minimum elong	2099 May 04 14:08	14°  28'51	0°08'50	superior conj	2100 Apr 18 17:12	28°  46'06	-0°36'49
behind sun begin	2099 May 04 09:43	14°  05'06		minimum elong	2100 Apr 18 19:04	28°  55'53	0°36'26
behind sun end	2099 May 04 18:32	14°  52'38			2100 Apr 19 07:14	0° 	
asc. node	2099 May 05 10:02	16°  16'20		asc. node	2100 Apr 22 07:03	6°  21'03	
evening rise	2099 May 11 14:24	29°  35'27		evening rise	2100 Apr 26 01:07	14°  17'33	
	2099 May 11 19:03	0° 			2100 May 04 01:01	0° 	
	2099 May 28 18:58	0° 		evening max el	2100 May 16 15:45	17°  37'48	21°51'22
evening max el	2099 Jun 03 22:14	7°  04'00	23°26'03	retrograde	2100 May 29 05:06	23°  48'17	
desc. node	2099 Jun 12 15:29	12°  05'49		desc. node	2100 May 30 12:29	23°  44'24	
retrograde	2099 Jun 17 12:34	13°  05'13		evening set	2100 May 31 19:59	23°  32'56	
evening set	2099 Jun 21 09:17	13°  09'10		inferior conj	2100 Jun 10 05:36	19°  29'31	-2°58'52
min. Earth dist.	2099 Jun 28 08:21	10°  07'08	0.55847 AU	minimum elong	2100 Jun 09 22:03	19°  40'04	2°56'33
inferior conj	2099 Jun 30 08:24	8°  05'51	-4°22'04	min. Earth dist.	2100 Jun 09 19:54	19°  43'04	0.54991 AU
minimum elong	2099 Jun 30 01:44	9°  05'48	4°20'49	morning rise	2100 Jun 19 01:23	15°  35'43	
morning rise	2099 Jul 08 20:45	5°  00'54		direct	2100 Jun 22 04:02	15°  34'22	
direct	2099 Jul 11 15:27	4°  04'15		morning max el	2100 Jul 04 05:48	20°  54'24	21°43'09
morning max el	2099 Jul 22 02:29	9°  03'24	20°16'13		2100 Jul 11 20:22	0° 	
asc. node	2099 Aug 01 09:16	23°  02'12		asc. node	2100 Jul 19 06:19	12°  06'43	
	2099 Aug 05 00:57	0° 		morning set	2100 Jul 24 23:02	23°  08'14	
morning set	2099 Aug 09 13:57	9°  00'22			2100 Jul 27 21:51	0° 	
superior conj	2099 Aug 17 05:57	24°  04'24	1°45'33	superior conj	2100 Aug 01 05:46	9°  07'45	1°40'49
minimum elong	2099 Aug 17 05:43	24°  04'10	1°45'33	minimum elong	2100 Aug 01 04:16	8°  05'52	1°40'43
	2099 Aug 19 21:35	0° 		max. Earth dist.	2100 Aug 05 00:26	16°  05'43	1.34870 AU
max. Earth dist.	2099 Aug 22 11:17	5°  00'08	1.36520 AU	evening rise	2100 Aug 09 11:10	25°  04'04	
evening rise	2099 Aug 26 09:27	12°  09'45			2100 Aug 11 17:58	0° 	
	2099 Sep 05 15:28	0° 		desc. node	2100 Aug 26 11:52	24°  09'18	
desc. node	2099 Sep 08 14:52	4°  04'24			2100 Aug 30 01:44	0° 	
	2099 Sep 27 05:58	0° 		evening max el	2100 Sep 13 15:57	17°  04'28	26°50'29
evening max el	2099 Oct 01 03:33	4°  05'43	25°56'18	retrograde	2100 Sep 26 18:08	24°  05'38	
retrograde	2099 Oct 13 14:37	11°  11'09		evening set	2100 Oct 03 11:09	22°  15'11	
evening set	2099 Oct 19 18:46	8°  13'05		min. Earth dist.	2100 Oct 07 10:45	18°  04'43	0.65712 AU
min. Earth dist.	2099 Oct 24 01:24	3°  15'59	0.66747 AU	inferior conj	2100 Oct 09 07:03	16°  05'23	-1°59'10
inferior conj	2099 Oct 25 09:47	2°  18'11	-1°00'35	minimum elong	2100 Oct 09 10:15	15°  05'02	1°57'54
minimum elong	2099 Oct 25 11:22	2°  13'12	0°59'55	morning rise	2100 Oct 15 10:00	10°  02'46	
	2099 Oct 27 06:59	30° 		asc. node	2100 Oct 15 05:30	10°  03'47	
asc. node	2099 Oct 28 08:26	28°  04'13		direct	2100 Oct 18 06:11	9°  04'10	
morning rise	2099 Oct 31 04:19	26°  02'53		morning max el	2100 Oct 24 19:49	13°  04'37	18°20'25
direct	2099 Nov 03 08:57	25°  02'01			2100 Nov 05 19:10	0° 	
morning max el	2099 Nov 10 06:54	29°  01'29	19°00'31	morning set	2100 Nov 13 02:16	11°  04'57	
	2099 Nov 10 22:55	0° 		desc. node	2100 Nov 22 11:10	26°  05'49	
	2099 Dec 01 15:20	0° 			2100 Nov 24 10:34	0° 	
morning set	2099 Dec 02 15:32	1°  03'40					
desc. node	2099 Dec 05 14:07	6°  03'55		superior conj	2100 Nov 28 07:39	6°  07'37	-0°38'35
max. Earth dist.	2099 Dec 17 08:00	24°  03'54	1.44946 AU	minimum elong	2100 Nov 28 02:40	5°  08'01	0°37'55
				max. Earth dist.	2100 Nov 30 03:18	8°  05'20	1.45135 AU
superior conj	2099 Dec 19 06:11	27°  03'44	-1°23'33		2100 Dec 13 13:10	0° 	
minimum elong	2099 Dec 18 21:20	27°  02'49	1°22'37	evening rise	2100 Dec 14 14:01	1°  03'23	
	2099 Dec 20 18:12	0° 		greatest brilliancy	2100 Dec 25 11:36	18°  03'48	-0.8m
evening rise	2100 Jan 03 07:25	21°  03'45			2101 Jan 02 05:43	0° 	
	2100 Jan 08 08:29	0° 		evening max el	2101 Jan 07 00:33	5°  04'17	19°18'25
evening max el	2100 Jan 23 15:48	22°  08'31	18°37'14	asc. node	2101 Jan 11 04:45	9°  05'12	
asc. node	2100 Jan 24 07:44	22°  05'36		retrograde	2101 Jan 14 02:40	9°  05'11	
retrograde	2100 Jan 30 06:29	25°  08'21		evening set	2101 Jan 17 12:37	8°  03'02	
evening set	2100 Feb 02 09:43	25°  02'58		inferior conj	2101 Jan 23 01:47	2°  05'56	3°15'25
inferior conj	2100 Feb 08 04:20	19°  06'59	3°36'08	minimum elong	2101 Jan 22 23:26	2°  08'30	3°14'58

min. Earth dist.	2101 Jan 24 09:42	1°≈08'10	0.66212 AU	retrograde	2101 Dec 29 00:36	23°≈35'25	
	2101 Jan 25 07:27	30°≈38'47		asc. node	2101 Dec 29 01:49	23°≈35'24	
morning rise	2101 Jan 28 10:01	26°≈38'47		evening set	2102 Jan 01 18:50	22°≈31'13	
direct	2101 Feb 03 17:43	23°≈51'15		inferior conj	2102 Jan 07 04:46	16°≈25'54	2°44'18
	2101 Feb 14 23:48	0°≈		minimum elong	2102 Jan 07 02:08	16°≈34'46	2°43'35
morning max el	2101 Feb 16 08:13	1°≈19'10	26°08'52	min. Earth dist.	2102 Jan 07 23:07	15°≈23'53	0.67128 AU
desc. node	2101 Feb 18 10:20	3°≈30'57		morning rise	2102 Jan 12 09:16	10°≈12'30	
	2101 Mar 09 21:54	0°≈					
morning set	2101 Mar 24 12:35	25°≈00'09					
	2101 Mar 27 04:06	0°≈					
max. Earth dist.	2101 Mar 28 11:53	2°≈33'23	1.35293 AU				
superior conj	2101 Apr 02 13:40	12°≈39'49	-1°04'36				
minimum elong	2101 Apr 02 16:55	12°≈56'22	1°04'02				
asc. node	2101 Apr 09 04:05	26°≈17'17					
evening rise	2101 Apr 10 08:48	28°≈45'15					
	2101 Apr 10 23:24	0°≈					
evening max el	2101 Apr 28 19:11	28°≈39'46	20°28'19				
	2101 Apr 30 06:35	0°≈					
retrograde	2101 May 09 18:17	3°≈59'06					
evening set	2101 May 11 19:44	3°≈48'36					
desc. node	2101 May 17 09:31	1°≈50'18					
inferior conj	2101 May 20 23:59	29°≈50'41	-1°03'05				
minimum elong	2101 May 20 21:00	29°≈55'01	1°01'59				
	2101 May 20 17:34	30°≈38'47					
min. Earth dist.	2101 May 22 08:29	29°≈03'32	0.55068 AU				
morning rise	2101 May 29 21:15	25°≈38'26					
direct	2101 Jun 02 14:31	25°≈08'36					
	2101 Jun 14 03:14	0°≈					
morning max el	2101 Jun 16 00:04	1°≈38'43	23°23'05				
	2101 Jul 05 03:46	0°≈					
asc. node	2101 Jul 06 03:22	1°≈57'07					
morning set	2101 Jul 09 10:20	8°≈43'11					
superior conj	2101 Jul 16 11:45	23°≈51'30	1°30'09				
minimum elong	2101 Jul 16 09:32	23°≈39'36	1°29'54				
max. Earth dist.	2101 Jul 18 22:47	29°≈05'53	1.33601 AU				
	2101 Jul 19 09:03	0°≈					
evening rise	2101 Jul 24 01:44	9°≈37'59					
	2101 Aug 04 03:24	0°≈					
desc. node	2101 Aug 13 08:53	14°≈22'16					
	2101 Aug 26 01:48	0°≈					
evening max el	2101 Aug 27 03:40	1°≈03'11	27°21'17				
retrograde	2101 Sep 09 15:53	8°≈21'27					
evening set	2101 Sep 16 18:09	5°≈39'08					
min. Earth dist.	2101 Sep 20 11:36	2°≈14'03	0.64323 AU				
inferior conj	2101 Sep 22 20:37	29°≈42'25	-2°57'04				
minimum elong	2101 Sep 23 01:15	29°≈30'05	2°55'28				
	2101 Sep 22 14:03	30°≈38'47					
morning rise	2101 Sep 29 09:23	24°≈17'08					
direct	2101 Oct 01 23:30	23°≈42'58					
asc. node	2101 Oct 02 02:34	23°≈43'03					
morning max el	2101 Oct 08 11:43	27°≈09'19	17°57'15				
	2101 Oct 10 23:51	0°≈					
morning set	2101 Oct 25 17:08	23°≈23'07					
	2101 Oct 29 15:00	0°≈					
superior conj	2101 Nov 07 21:50	15°≈18'58	0°09'41				
minimum elong	2101 Nov 07 22:57	15°≈23'29	0°09'31				
behind sun begin	2101 Nov 07 14:35	14°≈49'38					
behind sun end	2101 Nov 08 07:19	15°≈57'16					
desc. node	2101 Nov 09 08:12	17°≈37'28					
max. Earth dist.	2101 Nov 12 21:59	23°≈19'52	1.44584 AU				
	2101 Nov 17 03:35	0°≈					
evening rise	2101 Nov 24 02:46	10°≈48'37					
	2101 Dec 06 18:17	0°≈					
evening max el	2101 Dec 21 04:28	19°≈17'00	20°15'01				