superior conj	2000 Jan 16 01:19	25° ♂ 12'16		morning set	2000 Dec 09 00:59	8° ∡ 101'52	
minimum elong	2000 Jan 15 21:09	24°る55'01	1°59'47	desc. node	2000 Dec 09 07:27	8° ∡ ¹26'59	
	2000 Jan 18 22:20	0° ≈		max. Earth dist.	2000 Dec 22 13:05	29° ∡ 08'43	1.44674 AU
evening rise	2000 Jan 28 13:52	16° ≈ 34'14			2000 Dec 23 02:03	0°₹	
	2000 Feb 05 08:09	0° ∀				_	
asc. node	2000 Feb 11 02:32	9° ₩ 00'00		superior conj	2000 Dec 25 19:23	4° る 19'15	
evening max el	2000 Feb 15 01:15	13°) 46′50	18°08'55	minimum elong	2000 Dec 25 10:50	3° ਰ 45'11	1°35'58
retrograde	2000 Feb 21 12:46	17° ∺ 10'42		evening rise	2001 Jan 09 04:34	27° る 43'31	
evening set	2000 Feb 24 08:26	16° ∺ 31'03			2001 Jan 10 13:26	0° ≈	
inferior conj	2000 Mar 01 15:11	11° ∺ 20′33	3°41'46	asc. node	2001 Jan 27 23:35	26° ≈ 31′20	
minimum elong	2000 Mar 01 15:53	11°) 18'43	3°41'44	evening max el	2001 Jan 28 13:38	27° ≈ 08'07	18°25'53
min. Earth dist.	2000 Mar 04 11:16	8° ¥ 23'59	0.62420 AU		2001 Feb 01 07:13	0° ℋ	
morning rise	2000 Mar 07 22:09	5°) €21'02		retrograde	2001 Feb 04 01:58	0°) 41′41	
direct	2000 Mar 14 20:39	2°){ 46′44			2001 Feb 06 19:57	30° R ≈	
desc. node	2000 Mar 20 09:37	4°) (12′34		evening set	2001 Feb 07 02:54	29° ≈ 50'53	
morning max el	2000 Mar 28 21:13	10°) 42′02	27°49'30	inferior conj	2001 Feb 13 00:17	24° ≈ 21'18	3°40'48
	2000 Apr 13 00:17	0 ° Υ		minimum elong	2001 Feb 12 23:16	24° ≈ 24'13	3°40'43
	2000 Apr 30 03:53	$8^{\circ 0}$		min. Earth dist.	2001 Feb 15 05:10	21° ≈ 48′18	0.64268 AU
morning set	2000 May 01 15:21	2° 8 58'00		morning rise	2001 Feb 18 19:04	18°≈14'04	
max. Earth dist.	2000 May 07 05:42	14° 8 40'49	1.32608 AU	direct	2001 Feb 25 15:41	15° ≈ 24'37	
	•			desc. node	2001 Mar 07 06:39	19° ≈ 40'35	
superior conj	2000 May 09 03:50	18° 8 49'54	0°00'54	morning max el	2001 Mar 11 06:10	23° ≈ 16'39	27°27'46
minimum elong	2000 May 09 03:47	18° 8 49'39	0°00'53		2001 Mar 17 06:05	0°) €	
behind sun begin	2000 May 08 22:37	18° 8 21'38	0 0005		2001 Apr 06 07:14	0°Υ	
behind sun end	2000 May 09 08:57	19° 8 17'43		morning set	2001 Apr 15 09:24	16° Υ 50'58	
asc. node	2000 May 09 01:49	18° 8 39'00		max. Earth dist.	2001 Apr 13 05:24 2001 Apr 20 06:49	26° Υ 44'55	1.33421 AU
asc. node	•	0° Ⅱ		max. Earth dist.	-	0° 8	1.55421 AU
	2000 May 14 07:10				2001 Apr 21 20:08	0.0	
evening rise	2000 May 16 02:46	3° Ⅱ 53'07			2001 4 22 00 24	20 17100	0026141
	2000 May 30 04:27	0°©		superior conj	2001 Apr 23 09:24	3° 8 17'09	
evening max el	2000 Jun 09 13:32	13° © 01'28	24°02'57	minimum elong	2001 Apr 23 10:44	3° 8 24'13	0°26'23
desc. node	2000 Jun 16 08:52	18° © 07'07		asc. node	2001 Apr 25 22:53	8° 8 45'39	
retrograde	2000 Jun 23 08:32	19° © 57'43		evening rise	2001 Apr 30 14:10	18° 8 39'05	
evening set	2000 Jun 27 19:19	19° © 13'55			2001 May 06 04:53	Π °0	
min. Earth dist.	2000 Jul 04 00:16	16° © 13'13	0.56391 AU	evening max el	2001 May 22 04:33	23° Ⅱ 30′12	22°26'44
inferior conj	2000 Jul 06 11:35	14° © 41'46	-4°39'54	desc. node	2001 Jun 03 05:52	29° Ⅱ 55'40	
minimum elong	2000 Jul 06 06:35	14° © 49'31	4°39'15	retrograde	2001 Jun 04 05:22	29° Ⅱ 57'51	
morning rise	2000 Jul 14 20:30	10°\$542'12		evening set	2001 Jun 07 06:06	29° Ⅱ 37'36	
direct	2000 Jul 17 13:20	10° © 23'11		min. Earth dist.	2001 Jun 15 11:40	26° Ⅱ 03'52	0.55212 AU
morning max el	2000 Jul 27 09:17	14° © 56'50	19°47'52	inferior conj	2001 Jun 16 13:26	25° Ⅲ 27′22	-3°34'14
asc. node	2000 Aug 05 01:02	26° © 14'25		minimum elong	2001 Jun 16 05:30	25° Ⅱ 38'37	3°32'06
	2000 Aug 07 05:42	$\mathfrak{O}^{\circ}\mathfrak{O}$		morning rise	2001 Jun 25 07:00	21° Ⅲ 35'42	
morning set	2000 Aug 14 04:16	13° Ω 20′50		direct	2001 Jun 28 05:49	21° Ⅱ 15'55	
				morning max el	2001 Jul 09 17:04	26° Ⅱ 35'57	21°07'53
superior conj	2000 Aug 22 01:05	29° Ω 14'55	1°45'38	C	2001 Jul 12 22:47	0ංම	
minimum elong	2000 Aug 22 01:26	29° Ω 16'35		asc. node	2001 Jul 22 22:06	15° © 08'36	
	2000 Aug 22 10:11	0° m/		morning set	2001 Jul 29 12:03	28°504'44	
max. Earth dist.	2000 Aug 27 19:55	10° Mp 26'24	1.37241 AU	morning sec	2001 Jul 30 10:18	0° Ω	
evening rise	2000 Aug 31 15:07	17° m) 25'24	1.57211110		2001341 30 10.10	0 0 C	
e vening rise	2000 Sep 07 22:22	0° ರ		superior conj	2001 Aug 05 21:51	13° Ω 31'21	1°43'19
desc. node	2000 Sep 07 22:22 2000 Sep 12 08:11	7° ⊆ 05'13		minimum elong	2001 Aug 05 20:44	$13^{\circ}\Omega 25'33$	1°43'17
desc. Hode	•	0°M		max. Earth dist.	2001 Aug 10 05:44	$13^{\circ} 023^{\circ} 33$ $22^{\circ} \Omega 17'52$	
	2000 Sep 28 13:28		25920151				1.35456 AU
evening max el	2000 Oct 06 10:19	8°M49'40	25°30'51	evening rise	2001 Aug 14 10:48	0° Mp 27'07	
retrograde	2000 Oct 18 13:41	15°M47'57			2001 Aug 14 05:04	0° m)	
evening set	2000 Oct 24 12:40	13°M18'23		desc. node	2001 Aug 30 05:12	27° m 16'51	
min. Earth dist.	2000 Oct 28 22:06		0.67052 AU		2001 Sep 01 00:37	0∘ ⊽	
inferior conj	2000 Oct 30 02:09	6°M57'33		evening max el	2001 Sep 18 22:24		26°32'00
minimum elong	2000 Oct 30 03:10	6°M54'16	0°39'15	retrograde	2001 Oct 01 19:23	29° ≏ 41'10	
asc. node	2000 Nov 01 00:16	4°M33'32		evening set	2001 Oct 08 07:55	27° ≙ 00'38	
morning rise	2000 Nov 04 17:55	1°M01'25		min. Earth dist.	2001 Oct 12 10:00	22° ≏ 46'22	0.66152 AU
	2000 Nov 07 07:28	30° ŖΩ		inferior conj	2001 Oct 14 01:43	20° ≏ 46'52	-1°37'47
direct	2000 Nov 08 02:28	29° ≏ 56′26		minimum elong	2001 Oct 14 04:19	20° ♀ 39'01	1°36'44
	2000 Nov 08 21:42	0° M.		asc. node	2001 Oct 18 21:18	15° ≙ 47'09	
morning max el	2000 Nov 15 05:22	3°M56'43	19°20'25	morning rise	2001 Oct 20 01:16	15° ≏ 01'32	
greatest brilliancy	2000 Nov 29 02:12	22°M42'41	-0.7m	direct	2001 Oct 23 00:23	14° £ 12'07	
-	2000 Dec 03 20:26	0°⊀		morning max el	2001 Oct 29 16:30	17° ≏ 52'03	18°33'55
				-			

morning set desc. node	2001 Nov 07 19:53 2001 Nov 19 00:22 2001 Nov 26 04:29 2001 Nov 26 18:23 2001 Dec 04 21:36	0°M 17°M40'42 29°M05'00 0° ₹ 12° ₹ 48'22		morning max el morning set desc. node	2002 Oct 06 19:26 2002 Oct 11 05:56 2002 Oct 13 07:35 2002 Oct 31 04:55 2002 Oct 31 22:43 2002 Nov 13 01:30	28° M 19'12 0° A 1° A48'03 28° A45'51 0° M 19° M49'14	18°04'06
minimum elong max. Earth dist.	2001 Dec 04 14:34 2001 Dec 05 07:22 2001 Dec 15 19:55	12° メ 20'47 13° メ 26'42 0° 云	0°55'16 1.45145 AU	superior conj minimum elong	2002 Nov 14 04:40 2002 Nov 14 03:43	21°M37'50 21°M34'03	-0°07'38 0°07'29
evening rise greatest brilliancy	2001 Dec 20 19:54 2001 Dec 29 16:47 2002 Jan 03 21:38	7°る55'19 21°る59'39 0°≈	-0.8m	behind sun begin behind sun end max. Earth dist.	2002 Nov 13 18:09 2002 Nov 14 13:16 2002 Nov 18 02:03	20°M.55'53 22°M.12'09 27°M.48'19	1.44873 AU
evening max el asc. node	2002 Jan 11 23:44 2002 Jan 14 20:37 2002 Jan 18 20:50	10°≈35'00 13°≈03'31 14°≈29'05	19°00'41	evening rise	2002 Nov 19 11:29 2002 Nov 30 14:10 2002 Dec 08 20:21	0°♂ 17°♂18'12 0°♂	
retrograde evening set inferior conj	2002 Jan 22 03:55 2002 Jan 27 18:55	14 ≈29 03 13°≈26'09 7°≈39'49	3°24'31	greatest brilliancy evening max el	2002 Dec 08 20.21 2002 Dec 14 04:59 2002 Dec 26 05:38	8°පි05'32 24°පි04'26	-0.7m 19°51'46
minimum elong min. Earth dist. morning rise	2002 Jan 27 16:48 2002 Jan 29 08:27 2002 Feb 02 05:22	7°≈46'29 5°≈41'50 1°≈28'23	3°24'10 0.65744 AU	asc. node retrograde evening set	2003 Jan 01 17:38 2003 Jan 02 18:19 2003 Jan 06 09:03	28°る21'53 28°る27'45 27°る11'23	
direct	2002 Feb 04 04:18 2002 Feb 08 17:28 2002 Feb 13 17:20	30°Rる 28°る37'49 0°≈		inferior conj minimum elong min. Earth dist.	2003 Jan 11 20:02 2003 Jan 11 17:27 2003 Jan 12 19:29	21°る10'56 21°る19'35 19°る52'58	2°56'45 2°56'06 0.66815 AU
morning max el desc. node	2002 Feb 21 16:08 2002 Feb 22 03:42	6°≈15'47 6°≈45'13	26°35'20	morning rise direct	2003 Jan 17 01:36 2003 Jan 23 01:08	14°る57'45 12°る17'44	
morning set	2002 Mar 11 23:34 2002 Mar 29 16:08 2002 Mar 29 14:44	0° ∀ 0° Υ 06'33 0° Υ		morning max el desc. node	2003 Feb 04 01:04 2003 Feb 09 00:44 2003 Feb 13 01:00	19°る26'59 24°る58'43 0°≈	25°20'59
max. Earth dist.	2002 Apr 02 21:05 2002 Apr 07 08:55	8°Υ15'39 17°Υ21'45	1.34683 AU -0°54'38	morning set max. Earth dist.	2003 Mar 05 02:04 2003 Mar 12 06:50 2003 Mar 15 23:36	0° 米 12° 米 31'10 19° 米 20'00	1.36388 AU
minimum elong asc. node	2002 Apr 07 11:40 2002 Apr 12 19:56	17° Υ 36'00 28° Υ 45'31	0°54'06	superior conj	2003 Mar 21 23:34	0° Υ 56'03	-1°21'18
evening rise	2002 Apr 13 10:10 2002 Apr 14 23:16 2002 Apr 30 07:15	0°8 3°813′02 0°Ⅱ		minimum elong evening rise	2003 Mar 22 03:30 2003 Mar 21 12:16 2003 Mar 30 03:56	1° Υ 15'32 0° Υ 17° Υ 28'34	1°20'43
evening max el retrograde evening set	2002 May 04 03:42 2002 May 15 18:50 2002 May 17 23:06	4°П19'13 9°П59'11 9°П47'59	20°58'15	asc. node evening max el	2003 Mar 30 16:57 2003 Apr 05 14:37 2003 Apr 16 14:39	18° Y 34'16 0° と 15° と 46'45	19°46'00
desc. node inferior conj	2002 May 21 02:54 2002 May 27 07:09	8°П55'25 5°П49'53		retrograde evening set	2003 Apr 26 11:59 2003 Apr 28 12:35	20° 8 33'12 20° 8 22'05	
minimum elong min. Earth dist. morning rise	2002 May 27 02:08 2002 May 28 00:02 2002 Jun 05 05:01	5°П57'00 5°П25'57 1°П46'34		inferior conj minimum elong transit middle	2003 May 07 07:21 2003 May 07 07:52 2003 May 07 07:52	16° 8 20'19 16° 8 19'29 16° 8 19'29	0°12'00 0°11'48 0°11'48
direct morning max el	2002 Jun 08 15:11 2002 Jun 21 14:30 2002 Jul 07 10:35	1°Ⅱ21'16 7°Ⅱ33'36 0°©	22°43'51	transit begin transit end desc. node	2003 May 07 05:13 2003 May 07 10:32 2003 May 07 23:56	16° 8 23'37 16° 8 15'22 15° 8 54'31	
asc. node morning set	2002 Jul 09 19:09 2002 Jul 13 22:41	4°\$30'36 12°\$57'24		min. Earth dist. morning rise direct	2003 May 09 14:05 2003 May 16 00:44 2003 May 20 07:33	14° と 55'40 11° と 48'12 11° と 07'24	0.55597 AU
superior conj minimum elong	2002 Jul 21 01:47 2002 Jul 20 23:45 2002 Jul 21 22:41	28°©09'08 27°©58'20 0° Ω	1°34'38 1°34'27	morning max el	2003 Jun 03 05:41 2003 Jun 13 01:34 2003 Jun 26 16:12	18°804'38 0°II 24°II13'09	24°25'48
max. Earth dist. evening rise	2002 Jul 24 00:16 2002 Jul 28 20:56 2002 Aug 06 09:51	4° \2 20'10 14° \1 1'05 0° \	1.34036 AU	morning set	2003 Jun 28 10:29 2003 Jun 29 10:17	27°∏53'45 0°©	
desc. node	2002 Aug 17 02:13 2002 Aug 26 21:10	17°№04'05 0° <u>മ</u>	2791240	superior conj minimum elong	2003 Jul 05 10:21 2003 Jul 05 07:57	13°500'13 12°547'12	1°20'44 1°20'23
evening max el retrograde evening set min. Earth dist.	2002 Sep 01 10:24 2002 Sep 14 19:38 2002 Sep 21 18:53 2002 Sep 25 14:24	5°£55'54 13°£14'39 10°£30'51 6°£52'33	2/°12'40 0.64894 AU	max. Earth dist. evening rise	2003 Jul 07 03:39 2003 Jul 12 17:34 2003 Jul 13 12:10 2003 Jul 30 14:05	16°€43'37 28°€26'03 0°¶ 0°¶	1.33029 AU
inferior conj minimum elong	2002 Sep 27 18:31 2002 Sep 27 22:40 2002 Oct 02 09:26	4° <u>\$\pi_28'25\$</u> 4° <u>\$\pi_16'57\$</u> 30°R \mathred{m}	-2°36'08	desc. node evening max el retrograde	2003 Aug 03 23:14 2003 Aug 14 20:57 2003 Aug 28 13:41	6° Mp 16'33 19° Mp 01'51 26° Mp 19'25	27°25'59
morning rise asc. node	2002 Oct 04 03:22 2002 Oct 05 18:20	28° m 56'52 28° m 25'02		evening set min. Earth dist.	2003 Sep 04 18:24 2003 Sep 08 09:22	23° m 43'17	0.63291 AU

inferior conj minimum elong morning rise direct	2003 Sep 11 01:57 2003 Sep 11 07:09 2003 Sep 17 21:12 2003 Sep 20 08:52	17° m 56'16 17° m 43'16 12° m 41'42 12° m 12'14		evening set min. Earth dist. inferior conj minimum elong	2004 Aug 17 02:27 2004 Aug 20 17:45 2004 Aug 23 20:51 2004 Aug 24 01:56	1° m 02'33 0° m 51'18	
asc. node morning max el morning set	2003 Sep 22 15:23 2003 Sep 26 23:44 2003 Oct 07 01:28 2003 Oct 13 10:29 2003 Oct 24 11:20	12° M 37'21 15° M 38'03 0° <u>a</u> 11° <u>a</u> 03'13 0° M	17°51'48	morning rise direct asc. node morning max el	2004 Aug 25 01:33 2004 Aug 31 03:04 2004 Sep 02 13:09 2004 Sep 08 12:25 2004 Sep 09 14:01 2004 Sep 10 07:38	30°RN 26°N08'24 25°N44'10 28°N16'55 29°N15'04 0°M	17°58'07
superior conj minimum elong desc. node	2003 Oct 25 09:58 2003 Oct 25 13:33 2003 Oct 30 22:31	1°M34'14 1°M49'06 10°M36'23	0°36'59 0°36'29	morning set	2004 Sep 25 10:45 2004 Sep 28 14:13	24° Mp 14′21 0° <u>Ω</u>	
max. Earth dist.	2003 Oct 31 18:43	11° M 57'37	1.43905 AU	superior conj	2004 Oct 05 18:29	12° ≏ 50'54	1°10'48
evening rise	2003 Nov 09 22:29	26°M21'38 0° <i>₹</i>		minimum elong	2004 Oct 05 23:01	13° £ 10'41	
	2003 Nov 12 07:19 2003 Dec 02 21:34	0°중		max. Earth dist.	2004 Oct 13 07:18 2004 Oct 15 22:57	25° ≏ 39'22 0° ™	1.42357 AU
evening max el	2003 Dec 09 06:11	7° ප 34'57	20°56'29	desc. node	2004 Oct 16 19:33	1°M23'21	
retrograde	2003 Dec 17 16:01	12° る 33'45		evening rise	2004 Oct 19 13:53	5°M48'23	
asc. node	2003 Dec 19 14:38 2003 Dec 21 16:17	12°る12'43 11°る02'18		avanina may al	2004 Nov 04 14:40 2004 Nov 21 01:16	0° ₰ 21° ₰ 07'05	22°11'10
evening set inferior conj	2003 Dec 21 16.17 2003 Dec 27 01:11	4°る50'45	2°20'04	evening max el retrograde	2004 Nov 21 01:16 2004 Nov 30 12:17	26° ₹ 44'38	22 11 10
minimum elong	2003 Dec 26 22:39	4° る 59'27	2°19'15	evening set	2004 Dec 04 23:56	24° ₹ 56'41	
min. Earth dist.	2003 Dec 27 12:01	4° ප 13'33	0.67498 AU	asc. node	2004 Dec 05 11:39	24° ∡ ³31'35	
	2003 Dec 30 19:52	30°R. ✓		inferior conj	2004 Dec 10 08:22	18° ∡ 37'17	
morning rise direct	2004 Jan 01 04:50 2004 Jan 06 13:44	28° ₰ 37'40 26° ₰ 16'11		minimum elong min. Earth dist.	2004 Dec 10 06:21 2004 Dec 10 07:47	18° ∡ 44'15 18° ∡ 39'16	1°35'32 0.67810 AU
direct	2004 Jan 10 13:44 2004 Jan 14 11:02	20 メ 1011 0°る		morning rise	2004 Dec 10 07.47 2004 Dec 15 12:38	12° 🖈 26'12	0.07810 AU
morning max el	2004 Jan 17 09:21	2° ප් 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
morning got	2004 Feb 07 04:20	0°≈ 23°2246!56		daga mada	2005 Jan 10 04:09	0°る 3°る37'58	
morning set	2004 Feb 21 23:27 2004 Feb 25 12:58	23°≈46'56 0° ₩		desc. node	2005 Jan 12 18:47 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	
	2004 M 04 01 42	1201/40/22	1044121	max. Earth dist.	2005 Feb 06 15:41	12° ≈ 13'49	1.40595 AU
superior conj minimum elong	2004 Mar 04 01:43 2004 Mar 04 05:58	13°) 49′22 14°) 09′33	1°43'56	superior conj	2005 Feb 14 10:50	25°≈50'54	-2°00'19
minimum crong	2004 Mar 12 09:44	0° Υ	1 1330	minimum elong	2005 Feb 14 13:43	26°≈03'54	
evening rise	2004 Mar 13 01:32	1° Ƴ 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 2004 Apr 01 02:27	27° Y 52'31 0° と	18°53'09	asc. node	2005 Mar 03 11:01 2005 Mar 05 01:34	27° 升 15'15 0° Ƴ	
retrograde	2004 Apr 06 20:27	1° 8 55'30		evening max el	2005 Mar 12 18:20	10° Υ 30'13	18°20'24
evening set	2004 Apr 09 01:42	1° 8 39'26		retrograde	2005 Mar 20 00:14	14° Y 06′03	
	2004 Apr 13 01:23	30° ŖƳ		evening set	2005 Mar 22 11:24	13° Ƴ 42'06	
inferior conj	2004 Apr 17 01:05		1°51'46	inferior conj	2005 Mar 29 16:11	9° Υ 03'52	
minimum elong min. Earth dist.	2004 Apr 17 04:49 2004 Apr 20 06:12	27° Υ 15'02 25° Υ 04'21	1°50'37 0.57091 AU	minimum elong min. Earth dist.	2005 Mar 29 19:49 2005 Apr 02 02:36	8°Υ56'13 6°Υ12'00	2°57'33 0.59084 AU
desc. node	2004 Apr 23 20:57	22° Υ 52'40	0.37071710	morning rise	2005 Apr 06 01:37	3° Υ 29'21	0.57004710
morning rise	2004 Apr 25 04:49	22° Y 15'36		desc. node	2005 Apr 10 17:59	1° Y 51'21	
direct	2004 Apr 30 13:05	21° Υ 06'59		direct	2005 Apr 12 07:46	1° Y 44'44	
morning max el	2004 May 14 20:36 2004 May 16 06:54	28° Ƴ 33'58 0° 엉	25°59'31	morning max el	2005 Apr 26 16:24 2005 May 12 09:14	9° Y 29'18 0° と	27°09'43
	2004 May 10 00:34 2004 Jun 05 12:47	0°II		morning set	2005 May 12 09:14 2005 May 27 07:04	27° 8 34'28	
morning set	2004 Jun 11 21:50	12° Ⅱ 47'55			2005 May 28 10:44	0°II	
asc. node	2004 Jun 12 13:15	14° Ⅱ 09'28		asc. node	2005 May 30 10:18	4° Ⅱ 14'38	
superior conj	2004 Jun 18 21:24	27° II 56'59	1°02'31	superior conj	2005 Jun 03 09:12	12° Ⅱ 53'29	0°40'44
minimum elong	2004 Jun 18 19:08	27° Ⅱ 44'32	1°02'06	minimum elong	2005 Jun 03 07:30	12° Ⅱ 44'11	0°40'23
max. Earth dist.	2004 Jun 19 13:22	29° Ⅱ 24'33	1.32416 AU	max. Earth dist.	2005 Jun 03 01:42	12° Ⅱ 12'14	1.32184 AU
ovening riss	2004 Jun 19 19:49	0°ಅ 13°೯೧1'26		evening rise	2005 Jun 10 06:03	27° Ⅱ 48'59 0° ©	
evening rise	2004 Jun 25 21:27 2004 Jul 04 14:52	13° © 01′26 0° Ω			2005 Jun 11 07:03 2005 Jun 28 04:01	0ა V 0.ლ	
desc. node	2004 Jul 20 20:16	24° Ω 39'40		desc. node	2005 Jul 07 17:17	11° Ω 52'56	
	2004 Jul 25 13:58	0° m		evening max el	2005 Jul 09 03:20	13° Ω 17'02	26°15'23
evening max el	2004 Jul 27 03:29	1° Mp 32'27	27°07'11	retrograde	2005 Jul 23 03:00	20° Ω 28'11	
retrograde	2004 Aug 10 00:33	8° Mp 46'28		evening set	2005 Jul 29 14:18	18° Ω 45'14	

min. Earth dist.	2005 Aug 02 16:09	16° Ω 09'13	0.59336 AU		2006 Jul 10 20:18	30° ₹ 5	
inferior conj	2005 Aug 05 23:36	13° Ω 37′26	-4°51'31	min. Earth dist.	2006 Jul 15 07:37	27° © 31'00	0.57357 AU
minimum elong	2005 Aug 06 02:27	13° Ω 31′56	4°51'16	inferior conj	2006 Jul 18 07:07	25°532'16	-4°55'46
morning rise	2005 Aug 13 16:44	9° Ω 06′12		minimum elong	2006 Jul 18 05:16	25° © 35'23	4°55'41
direct	2005 Aug 16 03:51	8° Ω 45'10		morning rise	2006 Jul 26 10:33	21° 5 23'03	
morning max el	2005 Aug 23 23:18	12° Ω 30'42	18°24'13	direct	2006 Jul 29 00:39	21° © 03'47	
asc. node	2005 Aug 26 09:29	15° Ω 09'11		morning max el	2006 Aug 07 00:32	25° © 16'10	19°11'11
	2005 Sep 04 17:52	O° m			2006 Aug 11 04:09	0 $^{\circ}$ Ω	
morning set	2005 Sep 09 00:18	8° mp 03'28		asc. node	2006 Aug 13 06:34	2° £ 59′20	
				morning set	2006 Aug 23 23:11	22° Ω 20'17	
superior conj	2005 Sep 18 02:38	25° Mp 17'15			2006 Aug 27 19:31	0°Щ	
minimum elong	2005 Sep 18 05:55	25° m 32'21	1°32'16				
	2005 Sep 20 16:40	0∘ ⊽		superior conj	2006 Sep 01 04:49	8° m 37'45	
max. Earth dist.	2005 Sep 25 14:20	8° £ 38'43	1.40428 AU	minimum elong	2006 Sep 01 06:12	8° Mp 44'25	1°43'26
evening rise	2005 Sep 30 01:20	16° £ 10'40		max. Earth dist.	2006 Sep 07 17:55	20° m 55'35	1.38375 AU
desc. node	2005 Oct 03 16:36	22° £ 06'11		evening rise	2006 Sep 11 12:59	27° m/40'55	
	2005 Oct 08 17:15	0°M			2006 Sep 12 21:08	0° ™	
	2005 Oct 30 09:02	0° 🖍	22020152	desc. node	2006 Sep 20 13:38	12° £ 41'11	
evening max el	2005 Nov 03 15:51 2005 Nov 14 05:42	4° × 740'58	23°30'52	avanina may al	2006 Oct 02 04:38	0°M	24940!14
retrograde	2005 Nov 14 05:42 2005 Nov 19 06:22	10° х 56′13 8° х 51′10		evening max el	2006 Oct 17 04:08 2006 Oct 28 19:16	18°M18'36 25°M04'41	24°49'14
evening set	2005 Nov 19 06.22 2005 Nov 22 08:43	5° ₹ 31'30		retrograde evening set	2006 Oct 28 19:16 2006 Nov 03 09:55	23 1160441 22°11643'23	
asc. node min. Earth dist.	2005 Nov 24 04:28	3° ₹ '31'30	0.67775 AU	min. Earth dist.	2006 Nov 03 09.33 2006 Nov 07 23:42	17°M32'16	0.67409 AU
inferior conj	2005 Nov 24 04:28 2005 Nov 24 15:43	2° × 27'43	0°46'49	inferior conj	2006 Nov 07 23:42 2006 Nov 08 21:31	16°M20'06	
minimum elong	2005 Nov 24 13:43 2005 Nov 24 14:38	2° × 31'26	0°46'22	minimum elong	2006 Nov 08 21:31 2006 Nov 08 21:41	16°M19'31	0°07'03
minimum clong	2005 Nov 24 14:58 2005 Nov 26 11:53	30°RM	0 40 22	transit middle	2006 Nov 08 21:41 2006 Nov 08 21:41	16°M19'31	0°07'03
morning rise	2005 Nov 29 22:52	26°M20'29		transit begin	2006 Nov 08 21:41 2006 Nov 08 19:12	16°M27'45	0 07 03
direct	2005 Nov 29 22:32 2005 Dec 04 02:24	24°M44'17		transit end	2006 Nov 09 00:10	16°M11'18	
morning max el	2005 Dec 04 02:24 2005 Dec 12 12:42	29°M38'02	21°04'41	asc. node	2006 Nov 09 05:46	15°M52'48	
morning max or	2005 Dec 12 12:12 2005 Dec 12 21:19	0°×7	21 0111	morning rise	2006 Nov 14 09:35	10°M 19'03	
desc. node	2005 Dec 30 15:49	23° х 39'57		direct	2006 Nov 18 00:25	9°M03'38	
dese. node	2006 Jan 03 21:26	0°ਰ		morning max el	2006 Nov 25 12:57	13°M20'49	19°54'16
morning set	2006 Jan 11 21:22	12°る18'27			2006 Dec 08 05:52	0° ∡ 7	
max. Earth dist.	2006 Jan 19 18:38	24°る54'58	1.42559 AU	desc. node	2006 Dec 17 12:52	13° ∡ 759'51	
	2006 Jan 22 20:41	0° ≈		morning set	2006 Dec 21 17:19	20° ≯ 26′02	
				•	2006 Dec 27 20:55	0°ಕ	
superior conj	2006 Jan 26 21:34	6° ≈ 47'40	-2°04'42	max. Earth dist.	2007 Jan 02 04:50	8° ප 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° る 32'46	-1°52'30
	2006 Feb 09 01:22	0° ∀		minimum elong	2007 Jan 06 23:38	16° る 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° ℋ 55'28			2007 Feb 02 09:20	0° ℋ	
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		3°43'31
desc. node	2006 Mar 28 15:01	13°) (36′53	27045140	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°R≈	
	2006 Apr 16 12:20	$^{\circ \gamma}$		morning rise	2007 Mar 01 06:01	28°≈07'29	
. ,	2006 May 05 08:28	0°8		direct	2007 Mar 08 04:44	25°≈24'37	
morning set	2006 May 11 12:21	12° 8 07'05		desc. node	2007 Mar 15 12:03	27°≈53'43	
asc. node	2006 May 17 07:22	24° 8 24'08 24° 8 53'24	1.32332 AU	marring may al	2007 Mar 18 09:35 2007 Mar 22 01:47	0° ∺ 3° ∺ 20'37	27944126
max. Earth dist.	2006 May 17 12:45	27 U 33 24	1.32332 AU	morning max el	2007 Apr 10 23:07	3 π2037 0°Υ	21 TH 20
superior conj	2006 May 18 20:02	27° 8 44'04	0°16'05	morning set	2007 Apr 10 23:07 2007 Apr 25 11:18	26° Υ 17'18	
minimum elong	2006 May 18 20:02 2006 May 18 19:18	27° 8 40'02	0°15'56	morning set	2007 Apr 27 07:16	0° 8	
minimum ciong	2006 May 19 19:18 2006 May 19 20:52	0°II	3 10 50	max. Earth dist.	2007 Apr 30 18:24	7° 8 13'31	1.32893 AU
evening rise	2006 May 19 20:32 2006 May 25 17:14	12° Ⅱ 41'31		max. Lurur dist.	2007 11p1 30 10.24	, 01331	1.52075 AU
5 (ching 1150	2006 Jun 03 11:21	12 H 41 31		superior conj	2007 May 03 04:05	12° 8 21'56	-0°10'40
evening max el	2006 Jun 20 20:11	24°9516'53	24°56'16	minimum elong	2007 May 03 04:03 2007 May 03 04:37	12° 8 24'43	
desc. node		0 5 5		Ciong	•		
uesc. noue		27°528'19		behind sun begin	2007 May 03 00:38	12° 8 03'19	
desc. node	2006 Jun 24 14:19 2006 Jun 28 19:57	27° © 28′19 0° Ω		behind sun begin behind sun end	2007 May 03 00:38 2007 May 03 08:35	12° 8 03'19 12° 8 46'08	
retrograde	2006 Jun 24 14:19 2006 Jun 28 19:57			_	2007 May 03 00:38 2007 May 03 08:35 2007 May 04 04:24		
	2006 Jun 24 14:19	$0^{\circ}\Omega$		behind sun end	2007 May 03 08:35	12° 8 46'08	

	2007 May 11 09:17	0° I I			2008 May 02 20:00	0°Щ	
	2007 May 11 09:17 2007 May 29 00:56	0°9		evening max el	2008 May 14 03:51	0 II 15°II23'59	21047124
evening max el	2007 Jun 02 09:57	0 €9 4°9549'01	23°21'57	retrograde	2008 May 14 05:31 2008 May 26 15:48	21° II 32'20	21 4/ 34
desc. node	2007 Jun 02 09.37 2007 Jun 11 11:20	10°949'35	23 21 37	desc. node	2008 May 28 08:20	21 H 32 20 21° H 25'52	
	2007 Jun 11 11:20 2007 Jun 15 23:40	10 \$34933 11°\$35'55		evening set	2008 May 29 05:42	21° II 17'25	
retrograde	2007 Jun 13 23:40 2007 Jun 19 18:44	11 \$33 33 11°\$04'21		Č	2008 May 29 05.42 2008 Jun 07 15:27	21 Ⅲ 1723 17° Ⅲ 14'37	2052125
evening set			0.55702 AII	inferior conj			
min. Earth dist.	2007 Jun 26 19:56	7°950'55	0.55793 AU	minimum elong	2008 Jun 07 08:04	17° Ⅱ 24'56 17° Ⅱ 25'30	0.54978 AU
inferior conj	2007 Jun 28 18:40	6°941'52		min. Earth dist.	2008 Jun 07 07:39		0.54978 AU
minimum elong	2007 Jun 28 11:49	6°952'02	4°16'4/	morning rise	2008 Jun 16 11:36	13° Ⅱ 20'14	
morning rise	2007 Jul 07 07:28	2°547'19		direct	2008 Jun 19 14:31	12° Ⅱ 58'46	21047102
direct	2007 Jul 10 02:15	2°528'24	20010120	morning max el	2008 Jul 01 17:54	18° Ⅱ 41'08	21°47'03
morning max el	2007 Jul 20 15:00	7°521'04	20°19'28	1	2008 Jul 10 20:17	0°95	
asc. node	2007 Jul 31 03:38	21°933'18		asc. node	2008 Jul 17 00:41	10°540'19	
	2007 Aug 04 17:15	0°N		morning set	2008 Jul 22 13:35	21°5544'09	
morning set	2007 Aug 08 04:22	6° Ω 55'57			2008 Jul 26 11:48	$0^{\circ}\Omega$	
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°Ω54'56	1°40'14
minimum ciong	2007 Aug 19 13:01	0° m	1 43 30	max. Earth dist.	2008 Aug 02 13:12	14°Ω42'54	1.34813 AU
max. Earth dist.	2007 Aug 19 13:01 2007 Aug 20 23:43	2° Mp 48'16	1.36445 AU	evening rise	2008 Aug 07 00:41	23°Ω34'01	1.54615 AC
evening rise	2007 Aug 20 23:43 2007 Aug 24 22:18	10° Mp 12'46	1.50445 AU	evening rise	2008 Aug 10 10:51	0° m)	
evening rise	2007 Aug 24 22:18 2007 Sep 05 12:02	10 m/12 40 0° ⊆		desc. node	2008 Aug 24 07:41	23° m ₀ 05'12	
desc. node	2007 Sep 03 12:02 2007 Sep 07 10:40	ა 3° 02'59		desc. Hode	2008 Aug 29 02:50	0° ⊽	
desc. flode	-	0°M		avanina may al	-	0 = 15° £ 34'27	26°52'17
avanina may al	2007 Sep 27 17:18 2007 Sep 29 16:09	1°M58'35	25°58'58	evening max el retrograde	2008 Sep 11 04:32	13 ≥ 34 27 22° ♀ 50'10	20 32 17
evening max el			23 36 36	C	2008 Sep 24 07:17		
retrograde	2007 Oct 12 04:00	9°M04'49		evening set	2008 Oct 01 00:47	20° ♀ 07'29	0.65662 AII
evening set	2007 Oct 18 08:47	6°M30'08	0.66700 ATT	min. Earth dist.	2008 Oct 05 00:05	16° ♀ 08'31	0.65662 AU
min. Earth dist.	2007 Oct 22 15:05	1°M54'32 0°M11'35	0.66708 AU	inferior conj	2008 Oct 06 20:53	13° £ 58'10 13° £ 48'36	
inferior conj	2007 Oct 23 23:55			minimum elong	2008 Oct 07 00:10	8° £ 18'30	2 01 23
minimum elong	2007 Oct 24 01:36	0°M06'18	1 03 28	asc. node	2008 Oct 12 23:52		
	2007 Oct 24 03:36	30°R Ω		morning rise	2008 Oct 13 00:12	8° 丘 18'04	
asc. node	2007 Oct 27 02:49	26° £ 32'06		direct	2008 Oct 15 20:06	7° <u>Ω</u> 33'57	10010105
morning rise	2007 Oct 29 18:46	24° £ 19'25		morning max el	2008 Oct 22 09:34	11° ≏ 07'59	18°19'05
direct	2007 Nov 01 22:59 2007 Nov 08 20:31	23° £ 21'31	10050124	marning act	2008 Nov 04 16:00	0°M,	
morning max el		27° £ 12'16	18°58'34	morning set	2008 Nov 10 13:27	9°M34'00	
	2007 Nov 11 08:41	0° M 29° M 17'40		desc. node	2008 Nov 20 06:55	25°M13'26 0°⊀	
morning set	2007 Dec 01 01:32				2008 Nov 23 07:09	0.8,	
	2007 Dec 01 12:21	0° ⊀ ⁷			2000 N 25 16 52	20 7 47151	0025145
desc. node	2007 Dec 04 09:54	4° 🖈 32'30	1 440C1 ATT	superior conj	2008 Nov 25 16:52	3° × ⁷ 47'51	
max. Earth dist.	2007 Dec 15 20:55	22° × '30'31	1.44961 AU	minimum elong	2008 Nov 25 12:15	3° х ⁷ 29'39 6° х ⁷ 53'45	0°35'07
	2007 D 17 15 27	250 71000	1021115	max. Earth dist.	2008 Nov 27 16:07		1.45122 AU
superior conj	2007 Dec 17 15:27	25° 🖈 18'19		evening rise	2008 Dec 11 23:56	29° х 19'48	
minimum elong	2007 Dec 17 06:40	24° ₹ 43'42	1-20-19		2008 Dec 12 10:13	0°る	-0.8m
	2007 Dec 20 14:43	0°る		greatest brilliancy	2008 Dec 23 02:34	16°₹38'15	-0.8m
evening rise	2008 Jan 01 18:22	19° る 31'10			2009 Jan 01 09:51	0° ≈	10020126
	2008 Jan 08 04:46 2008 Jan 22 05:25	0°≈	10020141	evening max el	2009 Jan 04 13:58	3°≈40'12 7°≈04'47	19°20'36
evening max el		20°≈11'57 21°≈02'11	18°38'41	asc. node retrograde	2009 Jan 08 23:09	7°≈45'23	
asc. node	2008 Jan 23 02:07			Č	2009 Jan 11 16:44		
retrograde	2008 Jan 28 20:31	23°≈52'45 22°≈56'56		evening set inferior conj	2009 Jan 15 02:58	6°≈36'44	2012155
evening set				interior cont		0° ≈ 44'04	3°13'55
inferior conj	2008 Jan 31 23:57		2025120		2009 Jan 20 16:00	000 05 1147	2012127
	2008 Feb 06 18:19	17° ≈ 20'14		minimum elong	2009 Jan 20 13:36	0°≈51'47	3°13'27
minimum elong	2008 Feb 06 18:19 2008 Feb 06 16:45	17°≈20'14 17°≈24'56	3°35'18	minimum elong	2009 Jan 20 13:36 2009 Jan 21 05:36	30°₹₹	
min. Earth dist.	2008 Feb 06 18:19 2008 Feb 06 16:45 2008 Feb 08 16:40	17°≈20'14 17°≈24'56 15°≈01'01		minimum elong min. Earth dist.	2009 Jan 20 13:36 2009 Jan 21 05:36 2009 Jan 21 23:17	30°Rる 29°る03'03	3°13'27 0.66251 AU
min. Earth dist. morning rise	2008 Feb 06 18:19 2008 Feb 06 16:45 2008 Feb 08 16:40 2008 Feb 12 09:07	17°≈20'14 17°≈24'56 15°≈01'01 11°≈11'05	3°35'18	minimum elong min. Earth dist. morning rise	2009 Jan 20 13:36 2009 Jan 21 05:36 2009 Jan 21 23:17 2009 Jan 25 24:00	30°Rප 29°ප03'03 24°ප31'55	
min. Earth dist. morning rise direct	2008 Feb 06 18:19 2008 Feb 06 16:45 2008 Feb 08 16:40 2008 Feb 12 09:07 2008 Feb 19 02:57	17°≈20'14 17°≈24'56 15°≈01'01 11°≈11'05 8°≈19'15	3°35'18	minimum elong min. Earth dist. morning rise direct	2009 Jan 20 13:36 2009 Jan 21 05:36 2009 Jan 21 23:17 2009 Jan 25 24:00 2009 Feb 01 07:10	30°R号 29°号03'03 24°号31'55 21°号44'47	0.66251 AU
min. Earth dist. morning rise direct desc. node	2008 Feb 06 18:19 2008 Feb 06 16:45 2008 Feb 08 16:40 2008 Feb 12 09:07 2008 Feb 19 02:57 2008 Mar 01 09:04	17°≈20'14 17°≈24'56 15°≈01'01 11°≈11'05 8°≈19'15 14°≈06'51	3°35'18 0.64944 AU	minimum elong min. Earth dist. morning rise	2009 Jan 20 13:36 2009 Jan 21 05:36 2009 Jan 21 23:17 2009 Jan 25 24:00 2009 Feb 01 07:10 2009 Feb 13 20:43	30°Rる 29°る03'03 24°る31'55 21°る44'47 29°る11'28	
min. Earth dist. morning rise direct	2008 Feb 06 18:19 2008 Feb 06 16:45 2008 Feb 08 16:40 2008 Feb 12 09:07 2008 Feb 19 02:57 2008 Mar 01 09:04 2008 Mar 03 11:13	17°≈20'14 17°≈24'56 15°≈01'01 11°≈11'05 8°≈19'15 14°≈06'51 16°≈06'45	3°35'18	min. Earth dist. morning rise direct morning max el	2009 Jan 20 13:36 2009 Jan 21 05:36 2009 Jan 21 23:17 2009 Jan 25 24:00 2009 Feb 01 07:10 2009 Feb 13 20:43 2009 Feb 14 15:39	30°R♂ 29°♂03'03 24°♂31'55 21°♂44'47 29°♂11'28 0°≈	0.66251 AU
min. Earth dist. morning rise direct desc. node	2008 Feb 06 18:19 2008 Feb 06 16:45 2008 Feb 08 16:40 2008 Feb 12 09:07 2008 Feb 19 02:57 2008 Mar 01 09:04 2008 Mar 03 11:13 2008 Mar 14 22:46	17°≈20'14 17°≈24'56 15°≈01'01 11°≈11'05 8°≈19'15 14°≈06'51 16°≈06'45 0° €	3°35'18 0.64944 AU	minimum elong min. Earth dist. morning rise direct	2009 Jan 20 13:36 2009 Jan 21 05:36 2009 Jan 21 23:17 2009 Jan 25 24:00 2009 Feb 01 07:10 2009 Feb 13 20:43 2009 Feb 14 15:39 2009 Feb 16 06:05	30°Rで 29°で03'03 24°で31'55 21°で44'47 29°で11'28 0°≈ 1°≈43'16	0.66251 AU
min. Earth dist. morning rise direct desc. node morning max el	2008 Feb 06 18:19 2008 Feb 06 16:45 2008 Feb 08 16:40 2008 Feb 12 09:07 2008 Feb 19 02:57 2008 Mar 01 09:04 2008 Mar 03 11:13 2008 Mar 14 22:46 2008 Apr 02 17:45	17°≈20'14 17°≈24'56 15°≈01'01 11°≈11'05 8°≈19'15 14°≈06'51 16°≈06'45 0°₩ 0°♥	3°35'18 0.64944 AU	minimum elong min. Earth dist. morning rise direct morning max el desc. node	2009 Jan 20 13:36 2009 Jan 21 05:36 2009 Jan 21 23:17 2009 Jan 25 24:00 2009 Feb 01 07:10 2009 Feb 13 20:43 2009 Feb 14 15:39 2009 Feb 16 06:05 2009 Mar 08 18:56	30°R♂ 29°♂03'03 24°♂31'55 21°♂44'47 29°♂11'28 0°≈ 1°≈43'16 0°ℋ	0.66251 AU
min. Earth dist. morning rise direct desc. node morning max el morning set	2008 Feb 06 18:19 2008 Feb 06 16:45 2008 Feb 08 16:40 2008 Feb 12 09:07 2008 Feb 19 02:57 2008 Mar 01 09:04 2008 Mar 03 11:13 2008 Mar 14 22:46 2008 Apr 02 17:45 2008 Apr 08 01:00	17°≈20'14 17°≈24'56 15°≈01'01 11°≈11'05 8°≈19'15 14°≈06'51 16°≈06'45 0° Η 0° Υ 9° Υ 56'06	3°35'18 0.64944 AU 27°08'45	min. Earth dist. morning rise direct morning max el	2009 Jan 20 13:36 2009 Jan 21 05:36 2009 Jan 21 23:17 2009 Jan 25 24:00 2009 Feb 01 07:10 2009 Feb 13 20:43 2009 Feb 14 15:39 2009 Feb 16 06:05 2009 Mar 08 18:56 2009 Mar 22 01:29	30°Rる 29°る03'03 24°る31'55 21°る44'47 29°る11'28 0°≈ 1°≈43'16 0°米 22°米51'11	0.66251 AU
min. Earth dist. morning rise direct desc. node morning max el	2008 Feb 06 18:19 2008 Feb 06 16:45 2008 Feb 08 16:40 2008 Feb 12 09:07 2008 Feb 19 02:57 2008 Mar 01 09:04 2008 Mar 03 11:13 2008 Mar 14 22:46 2008 Apr 02 17:45	17°≈20'14 17°≈24'56 15°≈01'01 11°≈11'05 8°≈19'15 14°≈06'51 16°≈06'45 0°₩ 0°♥	3°35'18 0.64944 AU	minimum elong min. Earth dist. morning rise direct morning max el desc. node morning set	2009 Jan 20 13:36 2009 Jan 21 05:36 2009 Jan 21 23:17 2009 Jan 25 24:00 2009 Feb 01 07:10 2009 Feb 13 20:43 2009 Feb 14 15:39 2009 Feb 16 06:05 2009 Mar 08 18:56 2009 Mar 22 01:29 2009 Mar 25 19:55	30°Rで 29°で03'03 24°で31'55 21°で44'47 29°で11'28 0°≈ 1°≈43'16 0°米 22°升51'11	0.66251 AU 26°05'52
min. Earth dist. morning rise direct desc. node morning max el morning set max. Earth dist.	2008 Feb 06 18:19 2008 Feb 06 16:45 2008 Feb 08 16:40 2008 Feb 12 09:07 2008 Feb 19 02:57 2008 Mar 01 09:04 2008 Mar 03 11:13 2008 Mar 14 22:46 2008 Apr 02 17:45 2008 Apr 08 01:00 2008 Apr 12 15:00	17°≈20'14 17°≈24'56 15°≈01'01 11°≈11'05 8°≈19'15 14°≈06'51 16°≈06'45 0°¥ 0°Y 9°Y56'06 19°Y03'06	3°35'18 0.64944 AU 27°08'45 1.33901 AU	minimum elong min. Earth dist. morning rise direct morning max el desc. node	2009 Jan 20 13:36 2009 Jan 21 05:36 2009 Jan 21 23:17 2009 Jan 25 24:00 2009 Feb 01 07:10 2009 Feb 13 20:43 2009 Feb 14 15:39 2009 Feb 16 06:05 2009 Mar 08 18:56 2009 Mar 22 01:29	30°Rる 29°る03'03 24°る31'55 21°る44'47 29°る11'28 0°≈ 1°≈43'16 0°米 22°米51'11	0.66251 AU
min. Earth dist. morning rise direct desc. node morning max el morning set max. Earth dist. superior conj	2008 Feb 06 18:19 2008 Feb 06 16:45 2008 Feb 08 16:40 2008 Feb 12 09:07 2008 Feb 19 02:57 2008 Mar 01 09:04 2008 Mar 03 11:13 2008 Mar 14 22:46 2008 Apr 02 17:45 2008 Apr 08 01:00 2008 Apr 12 15:00	17°≈20'14 17°≈24'56 15°≈01'01 11°≈11'05 8°≈19'15 14°≈06'51 16°≈06'45 0°¥ 0°Y 9°Y56'06 19°Y03'06	3°35'18 0.64944 AU 27°08'45 1.33901 AU -0°38'32	minimum elong min. Earth dist. morning rise direct morning max el desc. node morning set max. Earth dist.	2009 Jan 20 13:36 2009 Jan 21 05:36 2009 Jan 21 23:17 2009 Jan 25 24:00 2009 Feb 01 07:10 2009 Feb 13 20:43 2009 Feb 14 15:39 2009 Feb 16 06:05 2009 Mar 08 18:56 2009 Mar 22 01:29 2009 Mar 25 19:55 2009 Mar 26 00:14	30°R♂ 29°♂03'03 24°♂31'55 21°♂44'47 29°♂11'28 0°≈ 1°≈43'16 0°ℋ 22°升51'11 0°Ƴ 0°Ƴ20'54	0.66251 AU 26°05'52 1.35363 AU
min. Earth dist. morning rise direct desc. node morning max el morning set max. Earth dist.	2008 Feb 06 18:19 2008 Feb 06 16:45 2008 Feb 08 16:40 2008 Feb 12 09:07 2008 Feb 19 02:57 2008 Mar 01 09:04 2008 Mar 03 11:13 2008 Mar 14 22:46 2008 Apr 02 17:45 2008 Apr 08 01:00 2008 Apr 12 15:00 2008 Apr 16 07:24 2008 Apr 16 09:21	17°≈20'14 17°≈24'56 15°≈01'01 11°≈11'05 8°≈19'15 14°≈06'51 16°≈06'45 0°¥ 0°Y 9°Y56'06 19°Y03'06	3°35'18 0.64944 AU 27°08'45 1.33901 AU -0°38'32	minimum elong min. Earth dist. morning rise direct morning max el desc. node morning set max. Earth dist. superior conj	2009 Jan 20 13:36 2009 Jan 21 05:36 2009 Jan 21 23:17 2009 Jan 25 24:00 2009 Feb 01 07:10 2009 Feb 13 20:43 2009 Feb 14 15:39 2009 Feb 16 06:05 2009 Mar 08 18:56 2009 Mar 22 01:29 2009 Mar 25 19:55 2009 Mar 26 00:14	30°R♂ 29°♂03'03 24°♂31'55 21°♂44'47 29°♂11'28 0°≈ 1°≈43'16 0°भ 22°升51'11 0°° 0°°Y20'54	0.66251 AU 26°05'52 1.35363 AU -1°06'12
min. Earth dist. morning rise direct desc. node morning max el morning set max. Earth dist. superior conj minimum elong	2008 Feb 06 18:19 2008 Feb 06 16:45 2008 Feb 08 16:40 2008 Feb 12 09:07 2008 Feb 19 02:57 2008 Mar 01 09:04 2008 Mar 03 11:13 2008 Mar 14 22:46 2008 Apr 02 17:45 2008 Apr 08 01:00 2008 Apr 12 15:00 2008 Apr 16 07:24 2008 Apr 16 09:21 2008 Apr 17 21:07	17°≈20'14 17°≈24'56 15°≈01'01 11°≈11'05 8°≈19'15 14°≈06'51 16°≈06'45 0°¥ 0°Y 9°Y56'06 19°Y03'06 26°Y41'03 26°Y51'16 0°8	3°35'18 0.64944 AU 27°08'45 1.33901 AU -0°38'32	minimum elong min. Earth dist. morning rise direct morning max el desc. node morning set max. Earth dist. superior conj minimum elong	2009 Jan 20 13:36 2009 Jan 21 05:36 2009 Jan 21 23:17 2009 Jan 25 24:00 2009 Feb 01 07:10 2009 Feb 13 20:43 2009 Feb 14 15:39 2009 Feb 16 06:05 2009 Mar 08 18:56 2009 Mar 22 01:29 2009 Mar 25 19:55 2009 Mar 26 00:14 2009 Mar 31 03:29 2009 Mar 31 06:48	30°R♂ 29°♂33'03 24°♂31'55 21°♂44'47 29°♂11'28 0°≈ 1°≈43'16 0°H 22°H51'11 0°Y 0°Y20'54 10°Y33'32 10°Y50'23	0.66251 AU 26°05'52 1.35363 AU -1°06'12
min. Earth dist. morning rise direct desc. node morning max el morning set max. Earth dist. superior conj	2008 Feb 06 18:19 2008 Feb 06 16:45 2008 Feb 08 16:40 2008 Feb 12 09:07 2008 Feb 19 02:57 2008 Mar 01 09:04 2008 Mar 03 11:13 2008 Mar 14 22:46 2008 Apr 02 17:45 2008 Apr 08 01:00 2008 Apr 12 15:00 2008 Apr 16 07:24 2008 Apr 16 09:21	17°≈20'14 17°≈24'56 15°≈01'01 11°≈11'05 8°≈19'15 14°≈06'51 16°≈06'45 0°¥ 0°Y 9°Y56'06 19°Y03'06	3°35'18 0.64944 AU 27°08'45 1.33901 AU -0°38'32	minimum elong min. Earth dist. morning rise direct morning max el desc. node morning set max. Earth dist. superior conj	2009 Jan 20 13:36 2009 Jan 21 05:36 2009 Jan 21 23:17 2009 Jan 25 24:00 2009 Feb 01 07:10 2009 Feb 13 20:43 2009 Feb 14 15:39 2009 Feb 16 06:05 2009 Mar 08 18:56 2009 Mar 22 01:29 2009 Mar 25 19:55 2009 Mar 26 00:14	30°R♂ 29°♂03'03 24°♂31'55 21°♂44'47 29°♂11'28 0°≈ 1°≈43'16 0°भ 22°升51'11 0°° 0°°Y20'54	0.66251 AU 26°05'52 1.35363 AU -1°06'12

minimum elong	2011 Feb 25 12:44	6°){ 41'56	1°51'56		2012 Feb 14 01:38	0° ∀	
evening rise	2011 Mar 06 18:57	24°) (21'05	1 0100	evening rise	2012 Feb 18 00:57	7° ₩ 18'46	
	2011 Mar 09 17:47	0°Υ		asc. node	2012 Feb 26 13:34	22°) €35'36	
asc. node	2011 Mar 11 16:31	3° Ƴ 38'25			2012 Mar 02 11:41	0°Υ	
evening max el	2011 Mar 23 01:10	20° Ƴ 31'51	18°36'50	evening max el	2012 Mar 05 09:35	3° Y 20'36	18°12'35
retrograde	2011 Mar 30 20:48	24° Ƴ 21'23		retrograde	2012 Mar 12 07:49	6° Ƴ 49'21	
evening set	2011 Apr 02 04:26	24° Y 02'23		evening set	2012 Mar 14 21:27	6° Ƴ 21′28	
inferior conj	2011 Apr 09 19:36	19° Y 36'31	2°24'10	inferior conj	2012 Mar 21 19:21	1° Y 34'38	3°16'38
minimum elong	2011 Apr 09 23:37	19° Ƴ 28'47	2°23'05	minimum elong	2012 Mar 21 22:19	1° Ƴ 27'57	3°16'08
min. Earth dist.	2011 Apr 13 05:01	17° Ƴ 01'20	0.57889 AU		2012 Mar 23 13:22	30° ₹ ₩	
morning rise	2011 Apr 17 15:43	14° Y 16'51		min. Earth dist.	2012 Mar 25 04:07	28° ∺ 35′16	0.59999 AU
desc. node	2011 Apr 18 23:22	13° Y 43'16		morning rise	2012 Mar 28 20:58	25° ℋ 51'17	
direct	2011 Apr 23 10:04	12° Y 53'11		direct	2012 Apr 04 10:11	23° ¥ 50′54	
morning max el	2011 May 07 19:05		26°33'03	desc. node	2012 Apr 04 20:25	23° 米 51′23	
	2011 May 15 23:18	0°B			2012 Apr 16 22:42	0° Υ	
_	2011 Jun 02 20:02	0°II		morning max el	2012 Apr 18 17:23	1° Y 40′26	27°29'33
morning set	2011 Jun 05 23:26	6° Ⅱ 27'40			2012 May 09 05:14	0° 8	
asc. node	2011 Jun 07 15:50	10° Ⅱ 02'06		morning set	2012 May 20 07:12	21° 8 08'24	
	2011 7 12 22 14	210 T 2015	00.53141		2012 May 24 11:12	0°II	
superior conj	2011 Jun 12 23:44	21° II 39'57		asc. node	2012 May 24 12:53	0° I 109'10	1 22100 ATT
minimum elong	2011 Jun 12 21:40	21° II 28'33	0°53'18	max. Earth dist.	2012 May 26 17:41	4° Ⅱ 57'24	1.32199 AU
max. Earth dist.	2011 Jun 13 05:34 2011 Jun 16 19:09	22° Ⅱ 11'58 0° ໑	1.32264 AU		2012 M 27, 11-10	6° Ⅱ 34'16	0920126
evening rise	2011 Jun 16 19:09 2011 Jun 19 21:57	6° © 38'52		superior conj	2012 May 27 11:19	6°Щ34°16 6°Щ26'58	0°30'36 0°30'19
evening rise	2011 Juli 19 21.37 2011 Jul 02 05:38	0 \$38.32 0°Ω		minimum elong evening rise	2012 May 27 10:00 2012 Jun 03 07:52	0 П 20 38 21° П 29'01	0 30 19
desc. node	2011 Jul	19° Ω 29'43		evening rise	2012 Jun 07 11:16	0°95	
evening max el	2011 Jul 13 22:43 2011 Jul 20 05:02	23° Ω 58'34	26°49'02		2012 Jun 26 02:24	0° U	
evening max er	2011 Jul 28 17:59	0° Mp	20 49 02	evening max el	2012 Jul	5° Ω 23'34	25°44'36
retrograde	2011 Aug 03 03:50	1° m) 12'04		desc. node	2012 Jul 01 19:43	6° Ω 05'02	23 44 30
retrograde	2011 Aug 08 09:46	30°RΩ		retrograde	2012 Jul 15 02:16	12° Ω 32'33	
evening set	2011 Aug 10 00:57	29° Ω 09'01		evening set	2012 Jul 21 02:56	11°Ω06'24	
min. Earth dist.	2011 Aug 13 19:02	26°Ω30'51	0.60526 AU	min. Earth dist.	2012 Jul 25 14:16		0.58467 AU
inferior conj	2011 Aug 17 01:04	23° Ω 48'52		inferior conj	2012 Jul 28 19:57	6° Ω 07'41	
minimum elong	2011 Aug 17 05:32	23° Ω 39'33		minimum elong	2012 Jul 28 21:04	6° Ω 05'40	4°57'35
morning rise	2011 Aug 24 12:00	19° Ω 04'18		morning rise	2012 Aug 05 17:30	1° Ω 45'47	
direct	2011 Aug 26 22:03	18° Ω 41'48		direct	2012 Aug 08 05:40	1° Ω 25'37	
morning max el	2011 Sep 03 05:56	22° Ω 17'58	18°06'39	morning max el	2012 Aug 16 12:04	5° Ω 21'19	18°41'31
asc. node	2011 Sep 03 15:01	22° Ω 40′28		asc. node	2012 Aug 20 12:06	9° Ω 58'48	
	2011 Sep 09 05:58	O° Mp			2012 Sep 01 02:32	O° Mp	
morning set	2011 Sep 19 02:12	17° m 23'31		morning set	2012 Sep 01 20:10	1° m 25'37	
	2011 Sep 25 21:09	0∘ ত					
				superior conj	2012 Sep 10 12:44	18° m 12'27	1°38'23
superior conj	2011 Sep 28 20:16	5° £ 21'32		minimum elong	2012 Sep 10 15:13	18° m) 24'10	1°38'14
minimum elong	2011 Sep 29 00:25	5° Ω 40'08	1°21'00		2012 Sep 16 23:22	0∘ ত	
max. Earth dist.	2011 Oct 06 11:22	18° △ 35'24	1.41571 AU	max. Earth dist.	2012 Sep 17 16:38	1° ≏ 16′20	1.39560 AU
evening rise	2011 Oct 11 20:16	27° Ω 25'29		evening rise	2012 Sep 21 18:04	8° ≏ 16'53	
desc. node	2011 Oct 11 22:04	27° £ 32'44		desc. node	2012 Sep 27 19:05	18° £ 12'44	
	2011 Oct 13 10:52	0° M 0° ∡ 7		avanina mer al	2012 Oct 05 10:35	0°M	2400452
evening max el	2011 Nov 02 16:54 2011 Nov 14 08:40	0° × ′ 14° × ′12'58	22044152	evening max el	2012 Oct 26 22:12 2012 Oct 29 06:18	27° M .49'13 0° ∡ 7	24 04 32
retrograde	2011 Nov 14 08:40 2011 Nov 24 07:19	20° ₹ 07'16	22 44 32	retrograde	2012 Oct 29 00:18 2012 Nov 06 23:04	4° ∡ 18'03	
evening set	2011 Nov 24 07:19 2011 Nov 29 00:13	18° ₹ 12'20		evening set	2012 Nov 10 23:04 2012 Nov 12 05:36	2°×706'04	
asc. node	2011 Nov 30 14:14	16° × 12 20		evening set	2012 Nov 12 03:30 2012 Nov 14 07:42	30°RM	
inferior conj	2011 Dec 04 08:52	11° × 50'44	1°15'58	asc. node	2012 Nov 14 07:42 2012 Nov 16 11:18	27°ML18'21	
minimum elong	2011 Dec 04 07:13	11° х 56'28	1°15'17	min. Earth dist.	2012 Nov 17 00:08	26°M35'18	0.67662 AU
min. Earth dist.	2011 Dec 04 07:13	12° × 08'19	0.67835 AU	inferior conj	2012 Nov 17 00:00 2012 Nov 17 15:47	25°M42'25	0°24'26
morning rise	2011 Dec 09 14:05	5° ∡ 740'46		minimum elong	2012 Nov 17 15:12	25°M44'25	0°24'10
direct	2011 Dec 14 01:43	3° ≯ 51′20		morning rise	2012 Nov 23 00:46	19°MJ37'29	
morning max el	2011 Dec 23 03:09	9° х 10′30	21°50'30	direct	2012 Nov 26 22:48	18°ML10'14	
desc. node	2012 Jan 07 21:17	29° ∡ ¹26′29		morning max el	2012 Dec 04 22:48	22°M46'49	20°33'03
	2012 Jan 08 06:34	8°0			2012 Dec 11 01:40	0° ∡ ¹	
morning set	2012 Jan 24 13:16	24° පි 49'10		desc. node	2012 Dec 24 18:20	19° ∡ ³37′01	
	2012 Jan 27 18:12	0° ≈			2012 Dec 31 14:03	0°₹	
max. Earth dist.	2012 Jan 30 16:23	4° ≈ 49'19	1.41469 AU	morning set	2013 Jan 02 13:59	3°₹05′20	
				max. Earth dist.	2013 Jan 11 22:53	17° る 54'24	1.43278 AU
superior conj	2012 Feb 07 09:02	17° ≈ 59′02					
minimum elong	2012 Feb 07 10:36	18° ≈ 05'54	2°03'53	superior conj	2013 Jan 18 08:56	28° る 26'02	-2°01'48

minimum elong	2013 Jan 18 05:37	28° る 12'13	2°01'42	superior conj	2013 Dec 29 06:27	7° る 41'42	10/11/20
minimum ciong	2013 Jan 19 07:25	28 3 12 13	2 01 42	minimum elong	2013 Dec 29 00.27 2013 Dec 28 22:16	7°る4142 7°る08'59	
evening rise	2013 Jan 30 15:08	0 ~ 19° ≈ 30'37		minimum clong	2014 Jan 11 21:35	0°≈	1 40 40
evening 1130	2013 Feb 05 14:55	0° ∀		evening rise	2014 Jan 12 09:05	0°≈48'06	
asc. node	2013 Feb 12 10:37	10° ¥ 59′02		asc. node	2014 Jan 30 07:38	28°≈38'01	
evening max el	2013 Feb 16 21:30	16°) 28'53	18°07'53	evening max el	2014 Jan 31 09:58	29° ≈ 48'41	18°22'12
retrograde	2013 Feb 23 09:41	19°) 52'28			2014 Jan 31 14:29	0°) €	
evening set	2013 Feb 26 04:34	19°)(14'24		retrograde	2014 Feb 06 21:43	3° ¥ 20′15	
inferior conj	2013 Mar 04 12:58	14°) €06'42	3°40'13	evening set	2014 Feb 09 21:47	2°) 31'13	
minimum elong	2013 Mar 04 13:58	14°) 04′08	3°40'09	•	2014 Feb 13 03:30	30°R ≈	
min. Earth dist.	2013 Mar 07 11:03	11°) 08'11	0.62123 AU	inferior conj	2014 Feb 15 20:22	27° ≈ 04'21	3°41'59
morning rise	2013 Mar 10 22:06	8°) €08'39		minimum elong	2014 Feb 15 19:34	27° ≈ 06'37	3°41'57
direct	2013 Mar 17 20:03	5°) 37′59		min. Earth dist.	2014 Feb 18 03:36	24° ≈ 26'48	0.64011 AU
desc. node	2013 Mar 22 17:29	6°){ 44′56		morning rise	2014 Feb 21 16:41	20° ≈ 57'50	
morning max el	2013 Mar 31 21:50	13°) 32′57	27°49'43	direct	2014 Feb 28 14:00	18° ≈ 09'42	
	2013 Apr 14 02:37	0 ° Υ		desc. node	2014 Mar 09 14:30	21° ≈ 55'19	
	2013 May 01 15:37	8°		morning max el	2014 Mar 14 06:30	26° ≈ 03'18	27°33'10
morning set	2013 May 04 10:03	5° 8 31'40			2014 Mar 17 22:24	0°) €	
max. Earth dist.	2013 May 10 02:59	17° 8 30'58	1.32526 AU		2014 Apr 07 15:35	0° Y	
asc. node	2013 May 11 09:55	20° 8 18'20		morning set	2014 Apr 18 05:29	19° Ƴ 29'45	
				max. Earth dist.	2014 Apr 23 05:29	29° Ƴ 40′12	1.33268 AU
superior conj	2013 May 11 21:10	21° 8 19'26	0°04'58		2014 Apr 23 09:16	0 \circ 8	
minimum elong	2013 May 11 20:56	21° 8 18'10	0°04'55				
behind sun begin	2013 May 11 16:01	20° 8 51'24		superior conj	2014 Apr 26 03:27	5° 8 49'52	
behind sun end	2013 May 12 01:51	21° 8 44'58		minimum elong	2014 Apr 26 04:34	5° 8 55'49	0°22'11
	2013 May 15 20:41	$\Pi^{\circ 0}$		asc. node	2014 Apr 28 06:57	10° 8 25'49	
evening rise	2013 May 18 19:33	6° Ⅱ 20'56		evening rise	2014 May 03 07:07	21° 8 08'26	
	2013 May 31 07:07	0.2			2014 May 07 14:57	0°II	
evening max el	2013 Jun 12 16:45	16° © 07'44	24°17'01	evening max el	2014 May 25 07:10	26° Ⅱ 36′29	22°40'52
desc. node	2013 Jun 18 16:43	20°547'26			2014 May 29 09:12	0°©	
retrograde	2013 Jun 26 13:08	23°906'51		desc. node	2014 Jun 05 13:44	3°501'35	
evening set	2013 Jul 01 05:25	22°5018'06	0.56600 444	retrograde	2014 Jun 07 11:56	3°510'03	
min. Earth dist.	2013 Jul 07 03:37	19°521'22	0.56622 AU	evening set	2014 Jun 10 17:02	2°547'22	
inferior conj	2013 Jul 09 18:41	17°542'25			2014 Jun 17 10:04	30°RⅡ 200Ⅲ10117	0.55224.411
minimum elong	2013 Jul 09 14:28 2013 Jul 18 02:13	17°5649'05 13°5640'47	4°45′11	min. Earth dist.	2014 Jun 18 15:11 2014 Jun 19 22:50	29° I 19'17 28° I 34'04	0.55334 AU
morning rise direct	2013 Jul 18 02.13 2013 Jul 20 18:22	13°921'42		inferior conj minimum elong	2014 Jun 19 22.30 2014 Jun 19 15:00	28° I I45'17	
morning max el	2013 Jul 20 18:22 2013 Jul 30 08:48	13 3 21 42	19°37'45	morning rise	2014 Jun 28 15:16	24° II 42'17	3 43 20
asc. node	2013 Jul 30 08:48 2013 Aug 07 09:10	28°\$08'29	19 3/43	direct	2014 Jul 01 12:50	24° II 42 17 24° II 22'53	
asc. nouc	2013 Aug 07 09:10 2013 Aug 08 12:13	0°Ω		morning max el	2014 Jul 12 18:22		20°54'48
morning set	2013 Aug 16 22:02	15° Ω 51'10		morning max er	2014 Jul 13 04:45	0°9	20 34 40
morning sec	2013 Aug 23 22:37	0°m		asc. node	2014 Jul 25 06:12	16°957'36	
	2013 1146 23 22.37	∪ 1,		use. Houe	2014 Jul 31 22:46	0° Ω	
superior conj	2013 Aug 24 20:56	1° m 50'36	1°45'20	morning set	2014 Aug 01 05:12	0° £ 33'06	
minimum elong	2013 Aug 24 21:32	1° m 53'33		8			
max. Earth dist.	2013 Aug 30 20:51	13° m) 21'32	1.37525 AU	superior conj	2014 Aug 08 16:21	16° Ω 03'01	1°44'07
evening rise	2013 Sep 03 15:23	20° m 14'00		minimum elong	2014 Aug 08 15:25	15° Ω 58'14	1°44'05
_	2013 Sep 09 07:07	0∘ ⊽		max. Earth dist.	2014 Aug 13 05:24	25° Ω 12'06	1.35699 AU
desc. node	2013 Sep 14 16:04	8° £ 42'34			2014 Aug 15 16:44	0° m)	
	2013 Sep 29 11:38	0°M,		evening rise	2014 Aug 17 08:32	3° Mp 08'22	
evening max el	2013 Oct 09 10:11	11°M28'12	25°20'24	desc. node	2014 Sep 01 13:05	28° m 57'00	
retrograde	2013 Oct 21 10:29	18°M23'39			2014 Sep 02 05:38	0∘ ⊽	
evening set	2013 Oct 27 07:22	15°M56'01		evening max el	2014 Sep 21 22:10	25° ≏ 06'48	26°24'00
min. Earth dist.	2013 Oct 31 17:52	11°ML00'06	0.67157 AU		2014 Sep 27 22:39	0° M	
inferior conj	2013 Nov 01 20:19	9° ™ 34'24	-0°31'03	retrograde	2014 Oct 04 17:02	2°M18'45	
minimum elong	2013 Nov 01 21:07	9° ™ 31'50	0°30'42		2014 Oct 10 17:27	30° ₹ Ω	
asc. node	2013 Nov 03 08:21	7° M 39'49		evening set	2014 Oct 11 03:37	29° ≏ 39'27	
morning rise	2013 Nov 07 11:05	3°M37'02		min. Earth dist.	2014 Oct 15 06:44	25° ≙ 19'39	0.66308 AU
direct	2013 Nov 10 21:12	2°M29'30		inferior conj	2014 Oct 16 20:40	23° ≏ 24'11	
morning max el	2013 Nov 18 02:22	6°M33'43	19°28'42	minimum elong	2014 Oct 16 23:02	23° ≙ 16'59	1°27'58
greatest brilliancy	2013 Dec 01 12:56	24°M34'38	-0.7m	asc. node	2014 Oct 21 05:23	18° ≙ 42'47	
	2013 Dec 05 02:42	0° ∡ ¹		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	10020115
morning set	2013 Dec 12 12:14	11°×23'33		morning max el	2014 Nov 01 12:39	20° £ 28'08	18°39'45
TP - 41 - 22	2013 Dec 24 10:12	0°る	1 44540 122		2014 Nov 08 23:09	0°M	
max. Earth dist.	2013 Dec 25 12:24	1° る 43'31	1.44542 AU	morning set	2014 Nov 22 07:20	20°M49'01	
					2014 Nov 28 02:26	0° ⊼ ¹	

desc. node	2014 Nov 28 12:22	0° ∡ ³39'13		superior conj	2015 Nov 17 14:53	24°M55'55	
	2014 D 00 00 51	160 712102	1002105	minimum elong	2015 Nov 17 13:00	24°M48'24	0°14'41
superior conj	2014 Dec 08 09:51	16° ₹ 13'03		behind sun begin	2015 Nov 17 08:21	24°M29'58	
minimum elong	2014 Dec 08 02:10	15° 🗷 42'52		behind sun end	2015 Nov 17 17:38	25°M06'50 0°⊀	
max. Earth dist.	2014 Dec 08 05:59 2014 Dec 17 03:53	15° メ 57'50 0° る	1.45121 AU	max. Earth dist.	2015 Nov 20 19:43 2015 Nov 21 00:49	0° x ¹ 0° x ¹20'04	1.44960 AU
evening rise	2014 Dec 17 03:53 2014 Dec 24 03:50	0 3 11° る 07'47		evening rise	2015 Nov 21 00:49 2015 Dec 04 00:49	0 x ·20 04 20° x 36'52	1.44900 AU
greatest brilliancy	2014 Dec 24 03.30 2015 Jan 01 02:55	11 30/4/ 23° る 50'56	-0.8m	evening rise	2015 Dec 04 00:49 2015 Dec 10 02:34	20 x・30 32	
greatest orimancy	2015 Jan 05 01:08	23 3 30 30 0 ∞	-0.6111	greatest brilliancy	2015 Dec 17 02:01	0 3 10°る37'54	-0.7m
evening max el	2015 Jan 14 20:31	0 ≈ 13° ≈ 14'49	18°54'30	evening max el	2015 Dec 17 02:01 2015 Dec 29 03:12	10 3 3734 26° 3 44'21	19°43'14
asc. node	2015 Jan 17 04:39	15°≈19'57	10 3430	evening max er	2016 Jan 02 02:20	0°≈	17 43 14
retrograde	2015 Jan 21 15:54	17°≈05'16		asc. node	2016 Jan 04 01:41	0°≈50'36	
evening set	2015 Jan 24 21:58	16°≈04'17		retrograde	2016 Jan 05 13:06	1°≈02'37	
inferior conj	2015 Jan 30 13:45	10°≈20'25	3°27'45	renegrade	2016 Jan 08 19:36	30°R♂	
minimum elong	2015 Jan 30 11:46	10°≈26'36	3°27'28	evening set	2016 Jan 09 02:37	29°₹48'19	
min. Earth dist.	2015 Feb 01 05:34	8°≈16'36	0.65547 AU	inferior conj	2016 Jan 14 14:05	23° ♂ 49'55	3°01'34
morning rise	2015 Feb 05 01:13	4°≈09'25		minimum elong	2016 Jan 14 11:31	23° る 58'22	3°00'57
direct	2015 Feb 11 14:57	1°≈18'01		min. Earth dist.	2016 Jan 15 15:33	22°る25'50	0.66684 AU
desc. node	2015 Feb 24 11:32	8° ≈ 47'07		morning rise	2016 Jan 19 20:11	17° る 36'57	
morning max el	2015 Feb 24 16:23	8°≈59'15	26°44'46	direct	2016 Jan 25 21:50	14°る54'42	
	2015 Mar 13 03:52	0°) €		morning max el	2016 Feb 07 01:24	22° る 08'49	25°33'02
	2015 Mar 31 01:44	$_0$ ° $\boldsymbol{\gamma}$		desc. node	2016 Feb 11 08:35	26° ප 51'37	
morning set	2015 Apr 01 14:07	2° Y 51'40			2016 Feb 13 22:43	0° ≈	
max. Earth dist.	2015 Apr 05 21:19	11° Y 15'08	1.34462 AU		2016 Mar 05 10:23	0° ∀	
	1			morning set	2016 Mar 14 07:32	15° ∺ 24'26	
superior conj	2015 Apr 10 04:00	19° Ƴ 58'19	-0°50'24	max. Earth dist.	2016 Mar 18 01:24	22° ∺ 21'38	1.36112 AU
minimum elong	2015 Apr 10 06:33	20° Ƴ 11'33	0°49'56		2016 Mar 22 00:19	$0^{\circ}\mathbf{\Upsilon}$	
	2015 Apr 14 22:51	0°8					
asc. node	2015 Apr 15 03:58	0° 8 26'52		superior conj	2016 Mar 23 20:11	3° Ƴ 37'29	-1°17'26
evening rise	2015 Apr 17 16:40	5° 8 44'27		minimum elong	2016 Mar 23 23:58	3° Y 56′24	1°16'51
	2015 May 01 02:00	\mathfrak{I} 0°		evening rise	2016 Mar 31 22:08	20° Y 02'51	
evening max el	2015 May 07 04:50	7° Ⅱ 21'14	21°10'37	asc. node	2016 Apr 01 01:00	20° Ƴ 17'24	
retrograde	2015 May 19 01:49	13° Ⅱ 08'53			2016 Apr 05 23:09	0°8	
evening set	2015 May 21 07:55	12° Ⅱ 57'06		evening max el	2016 Apr 18 13:59	18° 8 42'15	19°55'33
desc. node	2015 May 23 10:45	12° Ⅱ 25'55		retrograde	2016 Apr 28 17:20	23° 8 36'07	
inferior conj	2015 May 30 16:56	8° Ⅱ 58′21	-2°05'03	evening set	2016 Apr 30 17:52	23° 8 25'18	
minimum elong	2015 May 30 11:09	9° Ⅱ 06'29	2°03'04	desc. node	2016 May 09 07:46	19° 8 36'20	
min. Earth dist.	2015 May 31 03:30	8° Ⅱ 43'27	0.54902 AU	inferior conj	2016 May 09 15:12	19° 8 25'01	
morning rise	2015 Jun 08 14:34	4° Ⅱ 57'50		minimum elong	2016 May 09 14:57	19° 8 25'23	0°05'19
direct	2015 Jun 11 22:33	4° Ⅱ 33'47		transit middle	2016 May 09 14:57	19° 8 25'23	0°05'19
morning max el	2015 Jun 24 17:08	10° Ⅱ 38'41	22°28'47	transit begin	2016 May 09 11:12	19° 8 31'06	
	2015 Jul 08 18:52	0ංම		transit end	2016 May 09 18:42	19° 8 19'40	
asc. node	2015 Jul 12 03:14	6°915'40		min. Earth dist.	2016 May 11 17:07	18° 8 09'13	0.55443 AU
morning set	2015 Jul 16 15:31	15° © 24'31		morning rise	2016 May 18 09:54	14° 8 58'03	
				direct	2016 May 22 13:20	14° 8 20'16	
superior conj	2015 Jul 23 19:24	0° Ω 37'55		morning max el	2016 Jun 05 08:45	21° 8 11'20	24°10'46
minimum elong	2015 Jul 23 17:28	0° Ω 27'42	1°36'08	1	2016 Jun 12 23:22	0°II	
Earth diet	2015 Jul 23 12:14	0° Ω	1 24226 ATT	asc. node	2016 Jun 28 00:17	25° ∏ 55'13 0° ©	
max. Earth dist.	2015 Jul 26 22:29		1.34226 AU		2016 Jun 29 23:24 2016 Jun 30 03:15	0°920'18	
evening rise	2015 Jul 31 16:48 2015 Aug 07 19:15	16° Ω 46'43 0° m		morning set	2016 Jun 30 03:13	0-92018	
desc. node	2015 Aug 07 19:15 2015 Aug 19 10:07	18° Mp 48'12		superior conj	2016 Jul 07 03:24	15° © 27'03	1°23'07
desc. Hode	2015 Aug 19 10:07 2015 Aug 27 15:44	0° ⊡		minimum elong	2016 Jul 07 01:01	15°914'10	1°22'49
evening max el	2015 Aug 27 13:44 2015 Sep 04 10:19	ი 8° _ 36'57	27°08'12	max. Earth dist.	2016 Jul 09 00:48	19° 9 31'44	1.33157 AU
retrograde	2015 Sep	15° £ 55'16	27 08 12	max. Earth dist.	2016 Jul 14 00:47	0°Ω	1.33137 AU
evening set	2015 Sep 17 18:05 2015 Sep 24 15:59	13° ⊆ 11'33		evening rise	2016 Jul 14 12:05	0° Ω 57'23	
min. Earth dist.	2015 Sep 28 12:27	9° £ 27'51	0.65102 AU	evening rise	2016 Jul 30 18:18	0°m)	
inferior conj	2015 Sep 28 12:27 2015 Sep 30 14:38	7° £ 07'06		desc. node	2016 Aug 05 07:08	8° Mp 06'24	
minimum elong	2015 Sep 30 14:36 2015 Sep 30 18:34	6° £ 56'04		evening max el	2016 Aug 16 21:21	21° Mp 47'08	27°25'58
morning rise	2015 Oct 06 22:00	1° ⊆ 33'10	,	retrograde	2016 Aug 30 13:04	29° m) 04'39	
asc. node	2015 Oct 08 02:25	1° ⊆ 06'27		evening set	2016 Sep 06 17:26	26° Mp 26'41	
direct	2015 Oct 09 14:57	0° £ 53'58		min. Earth dist.	2016 Sep 10 08:56	23° My 16'07	0.63549 AU
morning max el	2015 Oct 16 03:16	4° £ 24'01	18°07'25	inferior conj	2016 Sep 12 23:40	20° m) 37'19	
<i>5</i>	2015 Nov 02 07:06	0°M		minimum elong	2016 Sep 13 04:46	20° m/24'21	3°22'03
morning set	2015 Nov 03 07:45	1°M42'04		morning rise	2016 Sep 19 17:18	15° m) 19'55	
desc. node	2015 Nov 15 09:25	21°M22'46		direct	2016 Sep 22 05:31	14° m/49'21	
				asc. node	2016 Sep 23 23:29	15° m) 04'30	
					- -		

morning max el	2016 Sep 28 19:27	18° Mp $15'02$	17°52'31	morning rise	2017 Sep 03 01:18	28° Ω 50′20	
	2016 Oct 07 07:56	0∘ ⊽		direct	2017 Sep 05 11:29	28° Ω 25'28	
morning set	2016 Oct 15 10:02	13° ≏ 49'57			2017 Sep 10 02:52	0° m)	
	2016 Oct 24 20:46	0° M		asc. node	2017 Sep 10 20:34	0° Mp 32′04	
				morning max el	2017 Sep 12 10:17	1° m 54'51	17°55'59
superior conj	2016 Oct 27 16:16	4° ™ 40′28	0°30'51	morning set	2017 Sep 28 07:55	26° Mp 54'12	
minimum elong	2016 Oct 27 19:25	4°M53'24	0°30'24		2017 Sep 30 00:42	0∘ ত	
desc. node	2016 Nov 01 06:28	12°M09'31			•		
max. Earth dist.	2016 Nov 02 18:18	14°M33'25	1.44090 AU	superior conj	2017 Oct 08 20:54	15° ≏ 45'43	1°06'26
evening rise	2016 Nov 12 09:40	29° ™ 40'45		minimum elong	2017 Oct 09 01:28	16° ≏ 05'30	1°05'53
<i>5</i>	2016 Nov 12 14:40	0° ∡ 7		max. Earth dist.	2017 Oct 16 07:41	28° ₽ 20'29	1.42617 AU
	2016 Dec 02 21:18	0°ප			2017 Oct 17 07:59	0°M	
evening max el	2016 Dec 11 04:39	00 10° る 14'49	20°46'05	desc. node	2017 Oct 19 03:30	2°M56'37	
retrograde	2016 Dec 19 10:55	15° る 07'52	20 .000	evening rise	2017 Oct 22 22:59	9°ML01'18	
asc. node	2016 Dec 20 22:44	13 3 6732		evening rise	2017 Nov 05 19:19	0° ∡ 7	
evening set	2016 Dec 23 09:41	13° る 38'38		evening max el	2017 Nov 24 00:27	23° х 46'13	21°59'32
inferior conj	2016 Dec 28 18:48	7°る28'30	2°26'08	retrograde	2017 Nov 24 00:27 2017 Dec 03 07:34	29° x 18'10	21 3732
minimum elong	2016 Dec 28 16:13	7° る 37'19	2°25'19	evening set	2017 Dec 03 07:34 2017 Dec 07 17:25	27° x 1810	
min. Earth dist.	2016 Dec 29 07:22	6° る 45'28	0.67423 AU	asc. node		27° x '3239 27° x '27'50	
		1°る15'25	0.07423 AU		2017 Dec 07 19:47 2017 Dec 13 01:49		1042122
morning rise	2017 Jan 02 22:34			inferior conj		21° 🗷 14'04	1°43'22
r.	2017 Jan 04 14:17	30°₹ ⋌ ¹		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° х 10'29	0.67787 AU
	2017 Jan 12 14:03	0°る		morning rise	2017 Dec 18 05:51	15° ∡ 02'32	
morning max el	2017 Jan 19 09:43	5° る 24'29	24°07'57	direct	2017 Dec 23 01:51	13° ⋌ ¹00'08	
desc. node	2017 Jan 28 05:39	15° る 47'17		morning max el	2018 Jan 01 19:58	18° ∡ ¹46′18	22°39'32
	2017 Feb 07 09:35	0° ≈			2018 Jan 11 05:09	0°ಕ	
morning set	2017 Feb 24 03:52	26° ≈ 51′20		desc. node	2018 Jan 15 02:43	5° る 19'45	
	2017 Feb 25 23:07	0° ℋ			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				
minimum elong	2017 Mar 07 04:46	16° ¥ 57'58	1°40'45	superior conj	2018 Feb 17 12:27	28° ≈ 47'13	-1°58'33
	2017 Mar 13 21:07	0 ° Υ		minimum elong	2018 Feb 17 15:42	29° ≈ 01'57	1°58'22
evening rise	2017 Mar 15 21:00	3° Y 56'08			2018 Feb 18 04:28	0° ∀	
asc. node	2017 Mar 18 22:03	9° Ƴ 51'59		evening rise	2018 Feb 27 10:15	17° ¥ 16′56	
	2017 Mar 31 17:31	0°8		asc. node	2018 Mar 05 19:05	29°) 04′59	
evening max el	2017 Apr 01 10:18	0° 8 42'12	18°59'41		2018 Mar 06 07:34	0° Υ	
retrograde	2017 Apr 09 23:14	4° 8 50'51		evening max el	2018 Mar 15 15:10	13° Ƴ 15′29	18°23'59
evening set	2017 Apr 12 03:36	4° 8 35'44		retrograde	2018 Mar 23 00:19	16° Ƴ 54'28	
inferior conj	2017 Apr 20 05:54	0° 8 20'38	1°38'42	evening set	2018 Mar 25 10:31	16° Ƴ 31'56	
minimum elong	2017 Apr 20 09:23	0° 8 14'30	1°37'36	inferior conj	2018 Apr 01 17:53	11° Υ 56'51	2°50'24
Č	2017 Apr 20 17:37	30° ₽ Υ		minimum elong	2018 Apr 01 21:41	11° Y '49'02	2°49'32
min. Earth dist.	2017 Apr 23 08:43	•	0.56827 AU	min. Earth dist.	2018 Apr 05 04:28	9° Y ′08'29	0.58765 AU
desc. node	2017 Apr 26 04:48	26° Y °25′27		morning rise	2018 Apr 09 06:05	6° Y 25'45	
morning rise	2017 Apr 28 12:07	25° Υ 19'27		desc. node	2018 Apr 13 01:51	5° Υ 00'46	
direct	2017 May 03 16:33	24°Υ15'49		direct	2018 Apr 15 09:21	4° Υ 46'39	
uncet	2017 May 16 04:07	0°8		morning max el	2018 Apr 29 18:24	12° Y ′29'37	27°01'20
morning max el	2017 May 17 23:24	1° 8 39'02	25°46'51	morning must vi	2018 May 13 12:40	0°8	2, 0120
morning max cr	2017 Jun 06 22:15	0°II	23 1031		2018 May 29 23:49	0°II	
morning set	2017 Jun 14 14:49	15° Ⅱ 15'24		morning set	2018 May 30 00:29	0° Д 03'31	
asc. node	2017 Jun 14 21:21	15° Ⅱ 49'55		asc. node	2018 Jun 01 18:23	5° I 53'58	
asc. Houc	2017 Jun 21 09:57	0°95		asc. node	2016 Juli 01 16.23	3 1133 36	
	2017 Juli 21 09.37	0 33		superior conj	2018 Jun 06 02:02	15° Ⅱ 20'27	0044115
	2017 I 21 14:14	00@33130	1005121				
superior conj	2017 Jun 21 14:14	0°523'28		minimum elong	2018 Jun 06 00:14	15° Ⅱ 10'31	0°43'53
minimum elong	2017 Jun 21 11:55	0°9510'46		max. Earth dist.	2018 Jun 05 22:02	14° I I58'27	1.32188 AU
max. Earth dist.	2017 Jun 22 09:54		1.32480 AU	evening rise	2018 Jun 12 23:07	0°516'28	
evening rise	2017 Jun 28 15:05	15°©30'23			2018 Jun 12 20:00	0°©	
	2017 Jul 06 00:20	$0^{\circ}\Omega$			2018 Jun 29 05:16	0°N	
desc. node	2017 Jul 23 04:08	26° Ω 38'11		desc. node	2018 Jul 10 01:09	14° Ω 03'38	26025106
	2017 Jul 25 23:41	0° Mp	0.01.010.0	evening max el	2018 Jul 12 05:29	16° Ω 15'19	26°25'06
evening max el	2017 Jul 30 04:39	4° TD 23'52	27°12'07	retrograde	2018 Jul 26 05:02	23° Ω 27'22	
retrograde	2017 Aug 13 01:00	11° Tp 38'24		evening set	2018 Aug 01 19:22	21° Ω 38'47	
evening set	2017 Aug 20 04:09	9° m 18'43		min. Earth dist.	2018 Aug 05 18:35		0.59644 AU
min. Earth dist.	2017 Aug 23 18:51		0.61692 AU	inferior conj	2018 Aug 09 02:06	16° Ω 27'42	
inferior conj	2017 Aug 26 20:42	3°Mp47'36		minimum elong	2018 Aug 09 05:28	16° Ω 21'04	4°47'50
minimum elong	2017 Aug 27 01:56	3°m/35'50	4°11'53	morning rise	2018 Aug 16 17:41	11° Ω 53'09	
	2017 Aug 31 15:28	30°R Ω		direct	2018 Aug 19 04:25	11° Ω 31'48	

morning max el	2018 Aug 26 20:34	15° Ω 14'30	18°18'59	direct	2019 Aug 01 03:58	23° © 56'51	
asc. node	2018 Aug 28 17:38	17° Ω 14'21		morning max el	2019 Aug 09 23:08	28° © 04'37	19°02'47
	2018 Sep 06 02:39	0° m			2019 Aug 11 19:46	$0 {\circ} \Omega$	
morning set	2018 Sep 11 19:45	10° m 38'11		asc. node	2019 Aug 15 14:41	4° Ω 56'19	
				morning set	2019 Aug 26 17:25	24° Ω 51′01	
superior conj	2018 Sep 21 01:52	28° Mp 02′36	1°29'58		2019 Aug 29 07:48	O° Mp	
minimum elong	2018 Sep 21 05:24	28° m 18'45	1°29'39				
	2018 Sep 22 03:39	0∘ ত		superior conj	2019 Sep 04 01:40	11° m 15'31	1°42'26
max. Earth dist.	2018 Sep 28 15:15	11° ≏ 25'25	1.40730 AU	minimum elong	2019 Sep 04 03:20	11° m 23'31	1°42'21
evening rise	2018 Oct 03 06:57	19° ≏ 13'45		max. Earth dist.	2019 Sep 10 18:53	23° Mp 47'00	1.38681 AU
desc. node	2018 Oct 06 00:30	23° ≏ 40'02			2019 Sep 14 07:14	0∘ ⊽	
	2018 Oct 10 00:40	0°M		evening rise	2019 Sep 14 15:02	0° £ 33'47	
	2018 Oct 31 04:38	0°⊀		desc. node	2019 Sep 22 21:29	14° £ 16'05	
evening max el	2018 Nov 06 15:32	7° ∡ 19'15	23°18'56		2019 Oct 03 08:14	0°M	
retrograde	2018 Nov 17 01:33	13° × ² 29'30		evening max el	2019 Oct 20 04:02	20°M56'13	24°38'00
evening set	2018 Nov 22 00:08	11° × 27'02		retrograde	2019 Oct 31 15:41	27°M38'16	2.3000
asc. node	2018 Nov 24 16:50	8° ₹ 37'28		evening set	2019 Nov 06 04:11	25°M19'25	
inferior conj	2018 Nov 27 09:15	5°×703'49	0°54'39	min. Earth dist.	2019 Nov 10 19:12	20°M03'02	0.67483 AU
minimum elong	2018 Nov 27 09:13 2018 Nov 27 08:00	5° ∡ 708'06	0°54'08	inferior conj	2019 Nov 10 19:12 2019 Nov 11 15:22	18°M55'51	0.07465 AU 0°01'16
min. Earth dist.	2018 Nov 26 23:35	5° × ⁷ 37'03	0.67799 AU	•	2019 Nov 11 15:22 2019 Nov 11 15:20	18°M55'58	0°01'16
IIIII. Eartii tist.			0.07799 AU	minimum elong transit middle			
	2018 Dec 01 11:12	30°RM			2019 Nov 11 15:20	18°M55'58	0°01'16
morning rise	2018 Dec 02 15:49	28°M55'47		transit begin	2019 Nov 11 12:35	19°M05'06	
direct	2018 Dec 06 21:22	27°M16'14		transit end	2019 Nov 11 18:04	18°M46'50	
	2018 Dec 12 23:43	0° ∡		asc. node	2019 Nov 11 13:53	19°M00'45	
morning max el	2018 Dec 15 11:30	2° ≯ 16'32	21°16'12	morning rise	2019 Nov 17 02:34	12°M53'36	
desc. node	2019 Jan 01 23:46	25° ∡ 18'23		direct	2019 Nov 20 19:12	11°MJ35'11	
	2019 Jan 05 03:40	0°ಕ		morning max el	2019 Nov 28 10:29	15° M 57'11	20°03'49
morning set	2019 Jan 15 09:51	15° る 45'09			2019 Dec 09 09:42	0°⊀	
max. Earth dist.	2019 Jan 22 19:19	27° る 37'51	1.42284 AU	desc. node	2019 Dec 19 20:47	15° ∡ ³35'41	
	2019 Jan 24 05:49	0° ≈		morning set	2019 Dec 25 06:07	23° ₹ 51'52	
					2019 Dec 29 04:55	0°ප	
superior conj	2019 Jan 30 02:52	9° ≈ 54'26	-2°05'00	max. Earth dist.	2020 Jan 05 04:21	11° る 00'56	1.43884 AU
minimum elong	2019 Jan 30 02:37	9° ≈ 53'22	2°05'01				
evening rise	2019 Feb 10 10:05	29° ≈ 56'32		superior conj	2020 Jan 10 15:19	19° る 49'57	-1°55'35
	2019 Feb 10 10:51	0° ℋ		minimum elong	2020 Jan 10 09:38	19° ට 26'43	1°55'16
asc. node	2019 Feb 20 16:07	17°) 49'21			2020 Jan 16 18:31	0° ≈	
evening max el	2019 Feb 27 01:25	26° ∺ 13'48	18°08'14	evening rise	2020 Jan 23 16:06	11° ≈ 45'35	
retrograde	2019 Mar 05 18:19	29°) 38′58			2020 Feb 03 11:37	0° ∀	
evening set	2019 Mar 08 10:05	29°) 07'01		asc. node	2020 Feb 07 13:10	5° 升 55′26	
inferior conj	2019 Mar 15 01:48	24° ℋ 11'19	3°29'42	evening max el	2020 Feb 10 13:56	9° 升 27'59	18°11'48
minimum elong	2019 Mar 15 03:58	24°) €06'09	3°29'27	retrograde	2020 Feb 17 00:54	12°) 53′23	
min. Earth dist.	2019 Mar 18 06:55	21°) €09'08	0.60909 AU	evening set	2020 Feb 19 21:54	12° 升 10′51	
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
morning max el	2019 Apr 11 19:42	23°) 59′22	27°42'46	morning rise	2020 Mar 03 04:56	0°) 52′56	
. 8	2019 Apr 17 06:01	$0^{\circ}\Upsilon$. 8	2020 Mar 04 11:08	30°R≈	
	2019 May 06 18:25	0°8		direct	2020 Mar 10 03:49	28°≈12'42	
morning set	2019 May 14 06:28	14° 8 38'38			2020 Mar 16 07:43	0°) €	
asc. node	2019 May 19 15:25	26° 8 02'59		desc. node	2020 Mar 16 19:56	0°) 17′20	
max. Earth dist.	2019 May 20 09:25	27° 8 40'58	1.32284 AU	morning max el	2020 Mar 24 02:06	6°) €08'40	27°46'56
max. Lattii dist.	2019 May 21 10:52	0°II	1.52204 110	morning max er	2020 Apr 11 04:48	0°Υ	27 4030
	2017 May 21 10.32	о д		morning set	2020 Apr 27 06:29	28°Υ52'23	
superior conj	2019 May 21 13:07	0° Ⅱ 12'20	0°20'00	morning set	2020 Apr 27 19:53	0° と	
	-	0° П 12 20	0°20'00 0°19'49	Easth diet	-	10° 8 04'38	1.32787 AU
minimum elong	2019 May 21 12:13		0 1949	max. Earth dist.	2020 May 02 16:04	10 00438	1.32/8/ AU
evening rise	2019 May 28 10:02	15° Ⅱ 08'39			2020 M 04 21-41	1.40 452120	000(120
	2019 Jun 04 20:05	0°9	25900122	superior conj	2020 May 04 21:41	14° 8 52'20	
evening max el	2019 Jun 23 23:16	27°521'01	25°09'23	minimum elong	2020 May 04 22:00	14° 8 54'02	0°06'26
desc. node	2019 Jun 26 22:08	29° © 55'42		behind sun begin	2020 May 04 17:11	14° 8 28'01	
	2019 Jun 27 00:19	0° Ω		behind sun end	2020 May 05 02:49	15° 8 20'04	
retrograde	2019 Jul 07 23:14	4° £ 27′54		asc. node	2020 May 05 12:26	16° 8 12'04	
evening set	2019 Jul 13 11:10	3° Ω 18'14		evening rise	2020 May 11 21:52	29° 8 59'30	
min. Earth dist.	2019 Jul 18 10:59	0° £ 33′28	0.57635 AU		2020 May 11 21:58	0° Ⅱ	
	2019 Jul 19 07:06	30° ₹ 5		_	2020 May 28 18:09	0°©	
inferior conj	2019 Jul 21 12:34	28°528'41		evening max el	2020 Jun 04 13:07	7° 9 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	
morning rise	2019 Jul 29 14:30	24°916'16		retrograde	2020 Jun 18 04:59	14°9545'50	

desc. node	2022 May 17 13:13	3° I 101'03			2023 Apr 03 16:22	0°8	
inferior conj	2022 May 17 13:13 2022 May 21 19:18	0° П 43'06	-1°14'22	evening max el	2023 Apr 03 10.22 2023 Apr 11 22:10	11° 8 03'45	19°29'24
minimum elong	2022 May 21 15:47		1°13'04	retrograde	2023 Apr 21 08:35	15° 8 37'17	1) 2) 24
min. Earth dist.	2022 May 21 13:47 2022 May 22 23:31	0° П 02'29	0.55013 AU	evening set	2023 Apr 23 09:51	15° 8 25'16	
mm. Earth dist.	2022 May 23 01:15	30°R X	0.55015110	inferior conj	2023 May 01 23:28		0°42'08
morning rise	2022 May 30 16:58	26° 8 33'34		minimum elong	2023 May 01 23:28 2023 May 02 01:13	11° 8 16'58	0°41'30
direct	2022 Jun 03 08:00	26° 8 05'14		desc. node	2023 May 04 10:16	9° 8 45'18	0 11 50
uncet	2022 Jun 13 15:27	0°II		min. Earth dist.	2023 May 04 14:03	9° 8 39'21	0.55930 AU
morning max el	2022 Jun 16 14:56	2° I I30'30	23°11'59	morning rise	2023 May 10 13:48	6° 8 38'05	0.00350110
morning mun er	2022 Jul 05 06:25	0.8e	25 1167	direct	2023 May 15 03:17	5° 8 50'59	
asc. node	2022 Jul 06 05:46	1° © 55'18		morning max el	2023 May 29 05:34	12° 8 58'16	24°53'24
morning set	2022 Jul 09 17:46	9° 5 06'10			2023 Jun 11 10:27	0°П	
				asc. node	2023 Jun 23 02:50	21° I I42'07	
superior conj	2022 Jul 16 19:38	24° © 15'19	1°31'19	morning set	2023 Jun 24 05:38	24° ∏ 02'33	
minimum elong	2022 Jul 16 17:27	24°503'38	1°31'06		2023 Jun 27 00:24	0.20	
max. Earth dist.	2022 Jul 19 09:49	29° © 45'27	1.33722 AU				
	2022 Jul 19 12:35	$0^{\circ}\Omega$		superior conj	2023 Jul 01 05:06	9° © 08'45	1°16'10
evening rise	2022 Jul 24 10:59	10° Ω 05'50		minimum elong	2023 Jul 01 02:41	8° © 55'37	1°15'49
S	2022 Aug 04 06:58	0° m)		max. Earth dist.	2023 Jul 02 15:12	12° © 14'07	1.32815 AU
desc. node	2022 Aug 13 12:33	14° m 25'16		evening rise	2023 Jul 08 09:54	24°©27'11	
	2022 Aug 26 01:03	0∘ ⊽			2023 Jul 11 04:11	$0^{\circ}\Omega$	
evening max el	2022 Aug 27 16:14	1° ≏ 36'58	27°19'12		2023 Jul 28 21:31	0° m)	
retrograde	2022 Sep 10 03:38	8° ♀ 55'27		desc. node	2023 Jul 31 09:34	3° Mp 26'05	
evening set	2022 Sep 17 05:12	6° ₽ 12'27		evening max el	2023 Aug 10 01:47	14° m 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° m 51'07	
inferior conj	2022 Sep 23 06:50	0° ₽ 14'07	-2°51'42	evening set	2023 Aug 31 00:57	19° m 19'02	
minimum elong	2022 Sep 23 11:20	0° ₽ 01'59	2°50'09	min. Earth dist.	2023 Sep 03 15:12	16° Mp 20′32	0.62794 AU
	2022 Sep 23 12:04	30°₽,₩		inferior conj	2023 Sep 06 11:09	13° Mp 36'50	-3°45'45
morning rise	2022 Sep 29 18:29	24° m 47'04		minimum elong	2023 Sep 06 16:30	13° m 23'56	3°44'18
direct	2022 Oct 02 09:07	24° Mp 11'58		morning rise	2023 Sep 13 09:28	8° m ∕27'52	
asc. node	2022 Oct 02 05:00	24° Mp 12'07		direct	2023 Sep 15 20:21	8° Mp 00'11	
morning max el	2022 Oct 08 21:14	27° m 38'51	17°58'55	asc. node	2023 Sep 19 02:03	8° m 49'34	
	2022 Oct 10 23:51	0∘ ⊽		morning max el	2023 Sep 22 13:16	11° m)26'32	17°51'38
morning set	2022 Oct 26 06:47	24° £ 03'55			2023 Oct 05 00:09	0∘ ত	
	2022 Oct 29 19:22	0° M		morning set	2023 Oct 08 18:08	6° ≏ 37'50	
superior conj	2022 Nov 08 16:43	16°M15'09	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° ჲ 51'50	0°46'50
behind sun begin	2022 Nov 08 07:29	15°M37'56			2023 Oct 22 06:49	0°M₊	
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							
max. Earth dist.	2022 Nov 09 11:52	17° ™ 32'09		desc. node	2023 Oct 27 08:55	8°M19'43	
	2022 Nov 13 09:53	23°M46'51	1.44675 AU	desc. node evening rise	2023 Oct 27 08:55 2023 Nov 04 07:58	8°M19'43 20°M54'39	
	2022 Nov 13 09:53 2022 Nov 17 08:42	23°M46'51 0°⊀	1.44675 AU		2023 Oct 27 08:55 2023 Nov 04 07:58 2023 Nov 10 06:25	8°M19'43 20°M54'39 0°⊀	
evening rise	2022 Nov 13 09:53 2022 Nov 17 08:42 2022 Nov 24 23:26	23°M46'51 0°⊀ 11°⊀49'11	1.44675 AU	evening rise	2023 Oct 27 08:55 2023 Nov 04 07:58 2023 Nov 10 06:25 2023 Dec 01 14:32	8°M19'43 20°M54'39 0°ズ 0°る	21217112
	2022 Nov 13 09:53 2022 Nov 17 08:42 2022 Nov 24 23:26 2022 Dec 06 22:08	23°M46'51 0°ダ 11°ダ49'11 0°る		evening rise evening max el	2023 Oct 27 08:55 2023 Nov 04 07:58 2023 Nov 10 06:25 2023 Dec 01 14:32 2023 Dec 04 14:29	8°M19'43 20°M54'39 0°ダ 0°उ 3°उ19'30	21°16'18
greatest brilliancy	2022 Nov 13 09:53 2022 Nov 17 08:42 2022 Nov 24 23:26 2022 Dec 06 22:08 2022 Dec 09 06:58	23°M46'51 0°ダ 11°ダ49'11 0°उ 3°उ30'49	-0.6m	evening rise evening max el retrograde	2023 Oct 27 08:55 2023 Nov 04 07:58 2023 Nov 10 06:25 2023 Dec 01 14:32 2023 Dec 04 14:29 2023 Dec 13 07:09	8°M19'43 20°M54'39 0°ズ 0°उ 3°उ19'30 8°उ29'20	21°16'18
greatest brilliancy evening max el	2022 Nov 13 09:53 2022 Nov 17 08:42 2022 Nov 24 23:26 2022 Dec 06 22:08 2022 Dec 09 06:58 2022 Dec 21 15:31	23°M46'51 0°ダ 11°ダ49'11 0°उ 3°♂30'49 19°♂48'37		evening rise evening max el retrograde asc. node	2023 Oct 27 08:55 2023 Nov 04 07:58 2023 Nov 10 06:25 2023 Dec 01 14:32 2023 Dec 04 14:29 2023 Dec 13 07:09 2023 Dec 16 01:19	8°M19'43 20°M54'39 0°ズ 0°उ 3°उ19'30 8°उ29'20 7°उ47'10	21°16'18
greatest brilliancy evening max el retrograde	2022 Nov 13 09:53 2022 Nov 17 08:42 2022 Nov 24 23:26 2022 Dec 06 22:08 2022 Dec 09 06:58 2022 Dec 21 15:31 2022 Dec 29 09:32	23°M46'51 0°ダ 11°ダ49'11 0°ರ 3°ರ30'49 19°ರ48'37 24°ರ21'24	-0.6m	evening rise evening max el retrograde asc. node evening set	2023 Oct 27 08:55 2023 Nov 04 07:58 2023 Nov 10 06:25 2023 Dec 01 14:32 2023 Dec 04 14:29 2023 Dec 13 07:09 2023 Dec 16 01:19 2023 Dec 17 10:17	8°M19'43 20°M54'39 0°ズ 0°づ 3°づ19'30 8°づ29'20 7°づ47'10 6°づ53'32	
greatest brilliancy evening max el retrograde asc. node	2022 Nov 13 09:53 2022 Nov 17 08:42 2022 Nov 24 23:26 2022 Dec 06 22:08 2022 Dec 09 06:58 2022 Dec 21 15:31 2022 Dec 29 09:32 2022 Dec 29 04:17	23°M46'51 0°ダ 11°ダ49'11 0°उ 3°उ30'49 19°उ48'37 24°उ21'24 24°उ21'08	-0.6m	evening rise evening max el retrograde asc. node evening set inferior conj	2023 Oct 27 08:55 2023 Nov 04 07:58 2023 Nov 10 06:25 2023 Dec 01 14:32 2023 Dec 04 14:29 2023 Dec 13 07:09 2023 Dec 16 01:19 2023 Dec 17 10:17 2023 Dec 22 18:54	8°M19'43 20°M54'39 0°ダ 0°उ 3°ठ19'30 8°ठ29'20 7°ठ47'10 6°ठ53'32 0°ठ39'18	2°08'48
greatest brilliancy evening max el retrograde asc. node evening set	2022 Nov 13 09:53 2022 Nov 17 08:42 2022 Nov 24 23:26 2022 Dec 06 22:08 2022 Dec 09 06:58 2022 Dec 21 15:31 2022 Dec 29 09:32 2022 Dec 29 04:17 2023 Jan 02 02:44	23°M46'51 0°ダ 11°ダ49'11 0°उ 3°उ30'49 19°उ48'37 24°उ21'24 24°उ21'08 23°उ00'53	-0.6m 20°08'21	evening rise evening max el retrograde asc. node evening set inferior conj minimum elong	2023 Oct 27 08:55 2023 Nov 04 07:58 2023 Nov 10 06:25 2023 Dec 01 14:32 2023 Dec 04 14:29 2023 Dec 13 07:09 2023 Dec 16 01:19 2023 Dec 17 10:17 2023 Dec 22 18:54 2023 Dec 22 16:28	8°M19'43 20°M54'39 0°ズ 0°उ 3°उ19'30 8°उ29'20 7°उ47'10 6°उ53'32 0°उ39'18 0°उ47'42	2°08'48 2°07'58
greatest brilliancy evening max el retrograde asc. node evening set inferior conj	2022 Nov 13 09:53 2022 Nov 17 08:42 2022 Nov 24 23:26 2022 Dec 06 22:08 2022 Dec 09 06:58 2022 Dec 21 15:31 2022 Dec 29 09:32 2022 Dec 29 04:17 2023 Jan 02 02:44 2023 Jan 07 12:57	23°M46'51 0°ダ 11°ダ49'11 0°उ 3°उ30'49 19°उ48'37 24°उ21'24 24°उ21'08 23°उ00'53 16°उ56'50	-0.6m 20°08'21 2°47'32	evening rise evening max el retrograde asc. node evening set inferior conj	2023 Oct 27 08:55 2023 Nov 04 07:58 2023 Nov 10 06:25 2023 Dec 01 14:32 2023 Dec 04 14:29 2023 Dec 13 07:09 2023 Dec 16 01:19 2023 Dec 17 10:17 2023 Dec 22 18:54 2023 Dec 23 02:29	8°M19'43 20°M54'39 0°ダ 0°♂ 3°♂19'30 8°♂29'20 7°♂47'10 6°♂53'32 0°♂39'18 0°♂47'42 0°♂13'07	2°08'48 2°07'58
greatest brilliancy evening max el retrograde asc. node evening set inferior conj minimum elong	2022 Nov 13 09:53 2022 Nov 17 08:42 2022 Nov 24 23:26 2022 Dec 06 22:08 2022 Dec 09 06:58 2022 Dec 21 15:31 2022 Dec 29 09:32 2022 Dec 29 04:17 2023 Jan 02 02:44 2023 Jan 07 12:57 2023 Jan 07 10:19	23°M46'51 0°ダ 11°ダ49'11 0°उ 3°उ30'49 19°उ48'37 24°उ21'24 24°उ21'08 23°ठ00'53 16°उ56'50 17°उ05'40	-0.6m 20°08'21 2°47'32 2°46'49	evening rise evening max el retrograde asc. node evening set inferior conj minimum elong min. Earth dist.	2023 Oct 27 08:55 2023 Nov 04 07:58 2023 Nov 10 06:25 2023 Dec 01 14:32 2023 Dec 04 14:29 2023 Dec 13 07:09 2023 Dec 16 01:19 2023 Dec 17 10:17 2023 Dec 22 18:54 2023 Dec 23 02:29 2023 Dec 23 06:17	8°M19'43 20°M54'39 0°メ 0°る 3°る19'30 8°る29'20 7°る47'10 6°る53'32 0°る39'18 0°る47'42 0°る13'07 30°Rメ	2°08'48 2°07'58
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greatest brilliancy evening max el retrograde asc. node evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el desc. node	2022 Nov 13 09:53 2022 Nov 17 08:42 2022 Nov 24 23:26 2022 Dec 06 22:08 2022 Dec 09 06:58 2022 Dec 29 09:32 2022 Dec 29 04:17 2023 Jan 02 02:44 2023 Jan 07 10:19 2023 Jan 08 08:42 2023 Jan 12 17:43 2023 Jan 18 13:12 2023 Jan 30 05:54 2023 Feb 05 11:05 2023 Feb 11 11:22 2023 Mar 02 22:52	23°M.46'51 0°ズ 11°ズ49'11 0°因 3°因30'49 19°母48'37 24°母21'08 23°母00'53 16°母56'50 17°母05'40 15°母50'24 10°母43'26 8°母08'08 15°母06'53 22°母08'39 0°無 0°米	-0.6m 20°08'21 2°47'32 2°46'49 0.67044 AU	evening rise evening max el retrograde asc. node evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el desc. node morning set	2023 Oct 27 08:55 2023 Nov 04 07:58 2023 Nov 10 06:25 2023 Dec 01 14:32 2023 Dec 04 14:29 2023 Dec 13 07:09 2023 Dec 16 01:19 2023 Dec 17 10:17 2023 Dec 22 18:54 2023 Dec 23 02:29 2023 Dec 23 02:29 2023 Dec 23 06:17 2023 Dec 27 22:28 2024 Jan 02 03:08 2024 Jan 12 14:38 2024 Jan 14 02:49 2024 Jan 23 08:09 2024 Feb 05 05:10 2024 Feb 16 19:16	8°M19'43 20°M54'39 0°ズ 0°G 3°G19'30 8°G29'20 7°G47'10 6°G53'32 0°G39'18 0°G47'42 0°G13'07 30°Rズ 24°ズ26'24 22°ズ10'52 28°ズ25'20 0°G 11°G21'53 0°≈ 18°≈40'19	2°08'48 2°07'58 0.67618 AU 23°30'07
greatest brilliancy evening max el retrograde asc. node evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el desc. node morning set	2022 Nov 13 09:53 2022 Nov 17 08:42 2022 Nov 24 23:26 2022 Dec 06 22:08 2022 Dec 09 06:58 2022 Dec 29 09:32 2022 Dec 29 04:17 2023 Jan 02 02:44 2023 Jan 07 10:19 2023 Jan 08 08:42 2023 Jan 12 17:43 2023 Jan 18 13:12 2023 Jan 30 05:54 2023 Feb 05 11:05 2023 Feb 11 11:22 2023 Mar 07 09:46	23°M.46'51 0°ズ 11°ズ49'11 0°उ 3°उ30'49 19°उ48'37 24°उ21'24 24°उ21'08 23°उ00'53 16°उ56'50 17°उ05'40 15°उ50'24 10°उ43'26 8°उ08'08 15°उ06'53 22°उ08'39 0°ж 0°兴 7°兴45'24	-0.6m 20°08'21 2°47'32 2°46'49 0.67044 AU 24°57'52	evening rise evening max el retrograde asc. node evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el desc. node	2023 Oct 27 08:55 2023 Nov 04 07:58 2023 Nov 10 06:25 2023 Dec 01 14:32 2023 Dec 04 14:29 2023 Dec 13 07:09 2023 Dec 16 01:19 2023 Dec 17 10:17 2023 Dec 22 18:54 2023 Dec 23 02:29 2023 Dec 23 02:29 2023 Dec 23 06:17 2023 Dec 27 22:28 2024 Jan 02 03:08 2024 Jan 12 14:38 2024 Jan 12 14:38 2024 Jan 14 02:49 2024 Feb 05 05:10 2024 Feb 16 19:16 2024 Feb 20 20:13	8°M19'43 20°M54'39 0°ズ 0°G 3°G19'30 8°G29'20 7°G47'10 6°G53'32 0°G39'18 0°G47'42 0°G13'07 30°Rズ 24°ズ26'24 22°ズ10'52 28°ズ25'20 0°G 11°G21'53 0°≈ 18°≈40'19 25°≈37'30	2°08'48 2°07'58 0.67618 AU
greatest brilliancy evening max el retrograde asc. node evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el desc. node	2022 Nov 13 09:53 2022 Nov 17 08:42 2022 Nov 24 23:26 2022 Dec 06 22:08 2022 Dec 09 06:58 2022 Dec 29 09:32 2022 Dec 29 04:17 2023 Jan 02 02:44 2023 Jan 07 10:19 2023 Jan 08 08:42 2023 Jan 12 17:43 2023 Jan 18 13:12 2023 Jan 30 05:54 2023 Feb 05 11:05 2023 Feb 11 11:22 2023 Mar 02 22:52	23°M.46'51 0°ズ 11°ズ49'11 0°因 3°因30'49 19°母48'37 24°母21'08 23°母00'53 16°母56'50 17°母05'40 15°母50'24 10°母43'26 8°母08'08 15°母06'53 22°母08'39 0°無 0°米	-0.6m 20°08'21 2°47'32 2°46'49 0.67044 AU	evening rise evening max el retrograde asc. node evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el desc. node morning set	2023 Oct 27 08:55 2023 Nov 04 07:58 2023 Nov 10 06:25 2023 Dec 01 14:32 2023 Dec 04 14:29 2023 Dec 13 07:09 2023 Dec 16 01:19 2023 Dec 17 10:17 2023 Dec 22 18:54 2023 Dec 23 02:29 2023 Dec 23 02:29 2023 Dec 23 06:17 2023 Dec 27 22:28 2024 Jan 02 03:08 2024 Jan 12 14:38 2024 Jan 14 02:49 2024 Jan 23 08:09 2024 Feb 05 05:10 2024 Feb 16 19:16	8°M19'43 20°M54'39 0°ズ 0°G 3°G19'30 8°G29'20 7°G47'10 6°G53'32 0°G39'18 0°G47'42 0°G13'07 30°Rズ 24°ズ26'24 22°ズ10'52 28°ズ25'20 0°G 11°G21'53 0°≈ 18°≈40'19	2°08'48 2°07'58 0.67618 AU 23°30'07
greatest brilliancy evening max el retrograde asc. node evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el desc. node morning set max. Earth dist.	2022 Nov 13 09:53 2022 Nov 17 08:42 2022 Nov 24 23:26 2022 Dec 06 22:08 2022 Dec 09 06:58 2022 Dec 29 09:32 2022 Dec 29 04:17 2023 Jan 02 02:44 2023 Jan 07 12:57 2023 Jan 07 10:19 2023 Jan 08 08:42 2023 Jan 12 17:43 2023 Jan 18 13:12 2023 Jan 30 05:54 2023 Feb 05 11:05 2023 Feb 11 11:22 2023 Mar 07 09:46 2023 Mar 17 09:46 2023 Mar 11 01:28	23°M46'51 0°ズ 11°ズ49'11 0°G 3°G30'49 19°G48'37 24°G21'24 24°G21'08 23°G00'53 16°G56'50 17°G05'40 15°G50'24 10°G43'26 8°G08'08 15°G06'53 22°G08'39 0°Ж 7°升45'24 14°升23'26	-0.6m 20°08'21 2°47'32 2°46'49 0.67044 AU 24°57'52	evening rise evening max el retrograde asc. node evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el desc. node morning set max. Earth dist.	2023 Oct 27 08:55 2023 Nov 04 07:58 2023 Nov 10 06:25 2023 Dec 01 14:32 2023 Dec 04 14:29 2023 Dec 13 07:09 2023 Dec 16 01:19 2023 Dec 17 10:17 2023 Dec 22 18:54 2023 Dec 22 16:28 2023 Dec 23 02:29 2023 Dec 23 06:17 2023 Dec 27 22:28 2024 Jan 02 03:08 2024 Jan 12 14:38 2024 Jan 14 02:49 2024 Jan 23 08:09 2024 Feb 05 05:10 2024 Feb 16 19:16 2024 Feb 20 20:13 2024 Feb 23 07:29	8°M19'43 20°M54'39 0°ズ 0°G 3°G19'30 8°G29'20 7°G47'10 6°G53'32 0°G39'18 0°G47'42 0°G13'07 30°Rズ 24°ズ26'24 22°ズ10'52 28°ズ25'20 0°G 11°G21'53 0°≈ 18°≈40'19 25°≈37'30 0°光	2°08'48 2°07'58 0.67618 AU 23°30'07
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greatest brilliancy evening max el retrograde asc. node evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el desc. node morning set max. Earth dist.	2022 Nov 13 09:53 2022 Nov 17 08:42 2022 Nov 24 23:26 2022 Dec 06 22:08 2022 Dec 09 06:58 2022 Dec 29 09:32 2022 Dec 29 04:17 2023 Jan 02 02:44 2023 Jan 07 12:57 2023 Jan 07 10:19 2023 Jan 08 08:42 2023 Jan 12 17:43 2023 Jan 18 13:12 2023 Jan 30 05:54 2023 Feb 05 11:05 2023 Feb 11 11:22 2023 Mar 07 09:46 2023 Mar 17 10:45 2023 Mar 17 10:45 2023 Mar 17 10:45	23°M46'51 0°ズ 11°ズ49'11 0°G 3°G30'49 19°G48'37 24°G21'24 24°G21'08 23°G00'53 16°G56'50 17°G05'40 15°G50'24 10°G43'26 8°G08'08 15°G06'53 22°G08'39 0°※ 0°米 7°X45'24 14°X23'26 26°X34'22 26°X54'40	-0.6m 20°08'21 2°47'32 2°46'49 0.67044 AU 24°57'52 1.36927 AU -1°28'07	evening rise evening max el retrograde asc. node evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el desc. node morning set max. Earth dist.	2023 Oct 27 08:55 2023 Nov 04 07:58 2023 Nov 10 06:25 2023 Dec 01 14:32 2023 Dec 04 14:29 2023 Dec 13 07:09 2023 Dec 16 01:19 2023 Dec 17 10:17 2023 Dec 22 18:54 2023 Dec 23 02:29 2023 Dec 23 02:29 2023 Dec 23 06:17 2024 Jan 02 03:08 2024 Jan 12 14:38 2024 Jan 12 14:38 2024 Jan 14 02:49 2024 Jan 23 08:09 2024 Feb 05 05:10 2024 Feb 16 19:16 2024 Feb 20 20:13 2024 Feb 23 07:29 2024 Feb 28 08:43 2024 Feb 28 12:49	8°M19'43 20°M54'39 0°ズ 0°G 3°G19'30 8°G29'20 7°G47'10 6°G53'32 0°G39'18 0°G47'42 0°G13'07 30°Rズ 24°ズ26'24 22°ズ10'52 28°ズ25'20 0°G 11°G21'53 0°※ 18°≈40'19 25°≈37'30 0°米 9°升14'46 9°升33'56	2°08'48 2°07'58 0.67618 AU 23°30'07 1.39033 AU -1°49'37
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greatest brilliancy evening max el retrograde asc. node evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el desc. node morning set max. Earth dist.	2022 Nov 13 09:53 2022 Nov 17 08:42 2022 Nov 24 23:26 2022 Dec 06 22:08 2022 Dec 09 06:58 2022 Dec 29 09:32 2022 Dec 29 04:17 2023 Jan 02 02:44 2023 Jan 07 12:57 2023 Jan 07 10:19 2023 Jan 08 08:42 2023 Jan 12 17:43 2023 Jan 18 13:12 2023 Jan 30 05:54 2023 Feb 05 11:05 2023 Feb 11 11:22 2023 Mar 07 09:46 2023 Mar 17 10:45 2023 Mar 17 10:45 2023 Mar 17 10:45	23°M46'51 0°ズ 11°ズ49'11 0°G 3°G30'49 19°G48'37 24°G21'24 24°G21'08 23°G00'53 16°G56'50 17°G05'40 15°G50'24 10°G43'26 8°G08'08 15°G06'53 22°G08'39 0°※ 0°米 7°X45'24 14°X23'26 26°X34'22 26°X54'40	-0.6m 20°08'21 2°47'32 2°46'49 0.67044 AU 24°57'52 1.36927 AU -1°28'07	evening rise evening max el retrograde asc. node evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el desc. node morning set max. Earth dist.	2023 Oct 27 08:55 2023 Nov 04 07:58 2023 Nov 10 06:25 2023 Dec 01 14:32 2023 Dec 04 14:29 2023 Dec 13 07:09 2023 Dec 16 01:19 2023 Dec 17 10:17 2023 Dec 22 18:54 2023 Dec 23 02:29 2023 Dec 23 02:29 2023 Dec 23 06:17 2024 Jan 02 03:08 2024 Jan 12 14:38 2024 Jan 12 14:38 2024 Jan 14 02:49 2024 Jan 23 08:09 2024 Feb 05 05:10 2024 Feb 16 19:16 2024 Feb 20 20:13 2024 Feb 23 07:29 2024 Feb 28 08:43 2024 Feb 28 12:49	8°M19'43 20°M54'39 0°ズ 0°G 3°G19'30 8°G29'20 7°G47'10 6°G53'32 0°G39'18 0°G47'42 0°G13'07 30°Rズ 24°ズ26'24 22°ズ10'52 28°ズ25'20 0°G 11°G21'53 0°※ 18°≈40'19 25°≈37'30 0°米 9°升14'46 9°升33'56	2°08'48 2°07'58 0.67618 AU 23°30'07 1.39033 AU -1°49'37

evening max el	2024 Mar 24 22:34	23° Y 19′22	18042'06	evening max el	2025 Mar 08 06:09	6° Ƴ 04'31	18°14'53
retrograde	2024 Mai 24 22:34 2024 Apr 01 22:14	23 1 19 22 27° Υ 13'07	16 42 00	retrograde	2025 Mar 15 06:46	9° Υ 35'20	16 14 33
evening set	2024 Apr 01 22:14 2024 Apr 04 05:02	26° Υ 55'12		evening set	2025 Mar 17 19:35	9° Υ 08'49	
inferior conj	2024 Apr 04 03:02 2024 Apr 11 23:03	20° $\gamma_{32'20}$	2°13'19	inferior conj	2025 Mar 24 19:48	4° Υ 24'56	3°10'39
minimum elong	2024 Apr 12 03:01	22° Υ '24'52	2°12'11	minimum elong	2025 Mar 24 23:02	4° Υ 17'50	3°10'05
min. Earth dist.	2024 Apr 15 07:22	20° Υ '02'52	0.57601 AU	min. Earth dist.	2025 Mar 28 05:23	1° Υ 27'42	0.59680 AU
morning rise	2024 Apr 19 21:53	17° Υ 17'14	0.57001 110	mm. Earth dist.	2025 Mar 30 02:18	30°R) €	0.57000 710
desc. node	2024 Apr 20 07:18	17° Υ ′06'52		morning rise	2025 Apr 01 00:09	28°) 44'32	
direct	2024 Apr 25 12:54	15° Υ 58'52		direct	2025 Apr 07 11:08	26°) 49'35	
morning max el	2024 May 09 21:29	23° Y '32'32	26°21'56	desc. node	2025 Apr 07 04:20	26°) 49'48	
morning max or	2024 May 15 17:05	0°8	20 21 30	dese. Hode	2025 Apr 16 06:25	0°Υ	
	2024 Jun 03 07:37	0°II		morning max el	2025 Apr 21 18:49	4° Υ 37'19	27°23'25
morning set	2024 Jun 07 16:34	8° I 55'01		morning max er	2025 May 10 12:15	0°8	27 23 23
asc. node	2024 Jun 08 23:54	11° I I41'18		morning set	2025 May 23 00:51	23° 8 37'51	
use. Hode	20213411 00 23.31	11 21110		morning sec	2025 May 26 00:59	0°II	
superior conj	2024 Jun 14 16:33	24° Ⅱ 06'06	0°56'55	asc. node	2025 May 26 20:58	1° Ⅱ 47'51	
minimum elong	2024 Jun 14 14:24	23° I I54'16	0°56'31	max. Earth dist.	2025 May 29 14:06	7° Ⅱ 43'39	1.32181 AU
max. Earth dist.	2024 Jun 15 01:49	24° I 57'08	1.32306 AU	max. Earth dist.	2023 May 29 11.00	, 12.13.33	1.52101710
max. Lartii dist.	2024 Jun 17 09:07	0°95	1.52500 110	superior conj	2025 May 30 04:13	9° Ⅱ 01'17	0°34'18
evening rise	2024 Jun 21 15:18	9° © 06'36		minimum elong	2025 May 30 02:45	8° I 53'13	0°33'59
evening rise	2024 Jul 02 12:50	0°Ω		evening rise	2025 Jun 06 00:47	23° I I56'04	0 33 37
desc. node	2024 Jul 17 06:34	21° Ω 32'32		evening rise	2025 Jun 08 22:58	0°95	
evening max el	2024 Jul 22 06:39	26°Ω52'37	26°56'08		2025 Jun 26 19:09	0° U	
evening max er	2024 Jul 25 22:42	0° m)	20 30 00	evening max el	2025 Jul 04 04:39	8° Ω 24'49	25°56'01
retrograde	2024 Aug 05 04:56	4° Mp 06'17		desc. node	2025 Jul 04 03:34	8°Ω22'16	23 30 01
evening set	2024 Aug 12 03:57	1° m/ 58'38		retrograde	2025 Jul 18 04:45	15° Ω 34'31	
evening set	2024 Aug 15 00:15	30°R Ω		evening set	2025 Jul 24 09:29	14°Ω02'25	
min. Earth dist.	2024 Aug 15 20:52	29° Ω 18'58	0.60831 AU	min. Earth dist.	2025 Jul 28 17:06	11°Ω24'58	0.58765 AU
inferior conj	2024 Aug 19 01:58	26° Ω 35'36		inferior conj	2025 Jul 31 23:41	9°Ω00'36	
minimum elong	2024 Aug 19 06:43	26°Ω25'30		minimum elong	2025 Aug 01 01:29	8° Ω 57'17	
morning rise	2024 Aug 26 11:16	21° Ω 47'34	7 2/2/	morning rise	2025 Aug 08 19:42	4°Ω35'27	4 3007
direct	2024 Aug 28 21:14	21°Ω24'32		direct	2025 Aug 11 07:30	4°Ω14'58	
asc. node	2024 Sep 04 23:07	24°Ω50'34		morning max el	2025 Aug 19 09:48	8° Ω 06'51	18°35'00
morning max el	2024 Sep 05 02:30	24°Ω58'43	18°03'12	asc. node	2025 Aug 22 20:10	12°Ω00'09	10 33 00
morning max cr	2024 Sep 09 06:50	0° m)	10 05 12	use. Houe	2025 Sep 02 13:23	0° m)	
morning set	2024 Sep 20 22:32	20° Mp 00'40		morning set	2025 Sep 02 15:25 2025 Sep 04 15:04	3° m/59'02	
morning sec	2024 Sep 26 08:09	0∘ ⊽		morning sec	2023 бер 01 13.01	3 11, 37 02	
	2021 Sep 20 00.09	~ —		superior conj	2025 Sep 13 10:52	20° m 54'40	1°36'30
superior conj	2024 Sep 30 21:09	8° ₽ 11'29	1°17'52	minimum elong	2025 Sep 13 13:38	21° Mp 07'38	1°36'17
minimum elong	2024 Oct 01 01:29	8° ₽ 30'39	1°17'24	minimum ciong	2025 Sep 18 10:06	0∘ ಹ	1 30 17
max. Earth dist.	2024 Oct 08 11:58	21° ≏ 18'29	1.41855 AU	max. Earth dist.	2025 Sep 20 17:59	ა — 4° ჲ 07'00	1.39868 AU
desc. node	2024 Oct 13 05:54	29° ₽ 05'45	1.11000 110	evening rise	2025 Sep 24 22:09	11° ≏ 15'59	1.57000 110
desc. node	2024 Oct 13 19:23	0°M		desc. node	2025 Sep 30 02:54	19° ≏ 47'08	
evening rise	2024 Oct 14 03:56	0° ጤ 34'16		dese. Hode	2025 Oct 06 16:41	0°M	
evening rise	2024 Nov 02 19:18	0° ₹			2025 Oct 29 11:02	0° ⊼ ⊓	
evening max el	2024 Nov 16 08:09		22°33'01	evening max el	2025 Oct 29 22:02	0° ∡ 727'42	23°52'58
retrograde	2024 Nov 26 02:42	22° × ⁷ 40'18	22 33 01	retrograde	2025 Nov 09 19:02	6° × ⁷ 51'43	23 32 30
evening set	2024 Nov 30 17:44	20° × 47'51		evening set	2025 Nov 14 23:31	4°×7'42'07	
asc. node	2024 Dec 01 22:22	19° × 41'39		asc. node	2025 Nov 18 19:23	0° ∡ 126'19	
inferior conj	2024 Dec 06 02:18	14° × 27'02	1°23'20	use. Houe	2025 Nov 19 03:20	30°RM	
minimum elong	2024 Dec 06 00:30		1°22'38	inferior conj	2025 Nov 20 09:23	28°M18'28	0°32'31
min. Earth dist.	2024 Dec 05 00:30 2024 Dec 05 22:48	14° ×7'39'09	0.67836 AU	minimum elong	2025 Nov 20 08:37	28°M21'05	
morning rise	2024 Dec 11 07:08	8°×716'38	0.07030710	min. Earth dist.	2025 Nov 19 19:16	29°M06'25	0.67716 AU
direct	2024 Dec 15 20:56	6° х 23'46		morning rise	2025 Nov 25 17:42	22°M12'45	0.07,70110
morning max el	2024 Dec 25 02:30	11° × ⁷ 49'37	22°02'57	direct	2025 Nov 29 17:38	20°M42'25	
morning max or	2025 Jan 08 10:30	0°ਰ	22 0237	morning max el	2025 Dec 07 21:03	25°M24'35	20°43'46
desc. node	2025 Jan 09 05:10	1°る06'34		morning max ci	2025 Dec 11 22:40	0° ⊼ ¹	20 45 40
morning set	2025 Jan 26 23:51	28° る 10'47		desc. node	2025 Dec 27 02:11	21° х 14'12	
	2025 Jan 28 02:53	20°≈		Lose. House	2026 Jan 01 21:11	0°る	
max. Earth dist.	2025 Feb 01 17:53		1.41171 AU	morning set	2026 Jan 06 03:01	6° る 32'56	
man. Durin dist.	2020100 01 17.00	, ~3123	1.111/1/10	max. Earth dist.	2026 Jan 14 23:14	0 03230 20°る34'44	1.43040 AU
superior conj	2025 Feb 09 12:08	20° ≈ 59'36	-2°02'55	max. Darui uist.	2026 Jan 14 23.14 2026 Jan 20 16:41	20 3 34 44 0° ≈	1.75040 AU
minimum elong	2025 Feb 09 12:08 2025 Feb 09 14:14	20°≈39'36 21°≈08'52			2020 Jan 20 10.41	U ~~	
mmmum elong		21°≈08′52 0°) €	2 02 32	superior con:	2026 Jan 21 15:49	1°≈36'53	2003112
evening rise	2025 Feb 14 12:06	10° ∺ 05'30		superior conj	2026 Jan 21 13:49 2026 Jan 21 13:21	1°≈36'33	
evening rise	2025 Feb 19 23:04	10° 10 € 105°30 24° 11 € 27'18		minimum elong			2 U3 U9
asc. node	2025 Feb 27 21:41	24° π 2/18 0° Υ		evening rise	2026 Feb 02 15:50	22° ≈ 24'40	
	2025 Mar 03 09:04	U I			2026 Feb 06 22:48	0° ∀	

1	2026 F. 1. 14. 10.42	120 1/ 5/120			2027 F. L. 01, 01, 27	001/	
asc. node	2026 Feb 14 18:42	12° ¥ 56′28	10007122	,	2027 Feb 01 01:26	0°)(
evening max el	2026 Feb 19 17:41	19°) 10'15	18°07'22	asc. node	2027 Feb 01 15:43	0°) (43'17	10010155
retrograde	2026 Feb 26 06:48	22°) (33′55		evening max el	2027 Feb 03 06:15	2°) (29'09	18°18'55
evening set	2026 Mar 01 00:52	21°) 57'28		retrograde	2027 Feb 09 17:36	5°) ₹58'53	
inferior conj	2026 Mar 07 11:02	16°) 52'43	3°38'09	evening set	2027 Feb 12 16:49	5° ∺ 11'37	
minimum elong	2026 Mar 07 12:20	16°) 49′25	3°38'04	inferior conj	2027 Feb 18 16:39	29° ≈ 47'37	3°42'51
min. Earth dist.	2026 Mar 10 11:04	13° ¥ 52'35	0.61813 AU	minimum elong	2027 Feb 18 16:06	29° ≈ 49'10	3°42'50
morning rise	2026 Mar 13 22:23	10° ¥ 56′13			2027 Feb 18 12:16	30° ₹ ≈	
direct	2026 Mar 20 19:33	8° ∺ 29'27		min. Earth dist.	2027 Feb 21 02:15	27° ≈ 05'46	0.63747 AU
desc. node	2026 Mar 25 01:22	9° ₩ 19'45		morning rise	2027 Feb 24 14:37	23° ≈ 41′59	
morning max el	2026 Apr 03 22:34	16°) €24'16	27°49'10	direct	2027 Mar 03 12:32	20° ≈ 55′23	
	2026 Apr 15 03:21	0 ° Υ		desc. node	2027 Mar 11 22:25	24° ≈ 12'14	
	2026 May 03 02:57	0°B		morning max el	2027 Mar 17 06:50	28° ≈ 50′18	27°37'48
morning set	2026 May 07 04:34	8° 8 04'33			2027 Mar 18 10:02	0°) €	
max. Earth dist.	2026 May 13 00:08	20° 8 20'30	1.32449 AU		2027 Apr 08 23:20	$0^{\circ}\mathbf{\Upsilon}$	
asc. node	2026 May 13 17:59	21° 8 57'14		morning set	2027 Apr 21 01:18	22° Y 07'29	
				_	2027 Apr 24 22:18	0°B	
superior conj	2026 May 14 14:25	23° 8 48'24	0°09'00	max. Earth dist.	2027 Apr 26 03:50	2° 8 34'08	1.33128 AU
minimum elong	2026 May 14 13:59	23° 8 46'06	0°08'54		1		
behind sun begin	2026 May 14 09:43	23° 8 22'48		superior conj	2027 Apr 28 21:22	8° 8 21'52	-0°18'12
behind sun end	2026 May 14 18:16	24° 8 09'25		minimum elong	2027 Apr 28 22:16	8° 8 26'41	0°18'00
oumu sum umu	2026 May 17 10:26	0°II		asc. node	2027 Apr 30 15:01	12° 8 05'38	0 10 00
evening rise	2026 May 17 10:26 2026 May 21 12:18	8°∏48'22		evening rise	2027 Apr 30 13:01 2027 May 06 00:01	23° 8 37'11	
evening rise	2026 Jun 01 11:56	о <u>п</u> 4022		evening rise	2027 May 09 01:58	25 O 3711 0° Ⅱ	
avanina may al		19° © 13'42	24921101	arranina marral	2027 May 09 01:38 2027 May 28 09:58	0 H 29°H42'52	22055100
evening max el	2026 Jun 15 20:00		24 3101	evening max el	•		22 33 08
desc. node	2026 Jun 21 00:36	23°524'18		1 1	2027 May 28 17:07	0.20 0.20	
retrograde	2026 Jun 29 17:36	26°515'26		desc. node	2027 Jun 07 21:37	6°502'59	
evening set	2026 Jul 04 15:15	25°521'28		retrograde	2027 Jun 10 18:15	6°521'40	
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°5542'08		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	
morning rise	2026 Jul 21 07:32	16° © 38'07		minimum elong	2027 Jun 23 00:23	1°950'44	3°57'34
direct	2026 Jul 23 22:58	16° © 19'00			2027 Jun 26 07:19	30°Ŗ Ⅱ	
morning max el	2026 Aug 02 08:07	20° © 40'55	19°28'05	morning rise	2027 Jul 01 23:11	27° Ⅱ 47'17	
asc. node	2026 Aug 09 17:12	0° Ω 02'51		direct	2027 Jul 04 19:39	27° Ⅱ 28'09	
	2026 Aug 09 16:28	$0 {\circ} \Omega$			2027 Jul 12 13:48	0 \circ	
morning set	2026 Aug 19 15:57	18° Ω 21'38		morning max el	2027 Jul 15 19:25	2° © 33'40	20°42'06
	2026 Aug 25 11:04	O° Mp		asc. node	2027 Jul 27 14:15	18° 5 46'36	
					2027 Aug 02 10:52	$0^{\circ}\Omega$	
superior conj	2026 Aug 27 17:04	4° ™ 26'59	1°44'50	morning set	2027 Aug 03 22:26	3° Ω 01'12	
minimum elong	2026 Aug 27 17:56	4° m /31'15	1°44'49				
max. Earth dist.	2026 Sep 02 21:53	16° Mp 15'58	1.37818 AU	superior conj	2027 Aug 11 11:02	18° Ω 34'45	1°44'44
evening rise	2026 Sep 06 16:08	23° Mp 03'48		minimum elong	2027 Aug 11 10:18	18° Ω 31′00	1°44'44
	2026 Sep 10 16:21	0∘ ⊽		max. Earth dist.	2027 Aug 16 05:11	28° Ω 05'42	1.35951 AU
desc. node	2026 Sep 16 23:55	10° ≏ 18'59			2027 Aug 17 04:43	0° m	
	2026 Sep 30 11:44	0°M		evening rise	2027 Aug 20 06:37	5° m 50'16	
evening max el	2026 Oct 12 10:03	14° M 06'17	25°09'39	Ü	2027 Sep 03 11:37	0∘ <u>v</u>	
retrograde	2026 Oct 24 07:13	20°M58'44		desc. node	2027 Sep 03 20:57	0° Ω 35'59	
evening set	2026 Oct 30 01:57	18°M33'11		evening max el	2027 Sep 24 21:59	27° ≏ 45'16	26°15'38
min. Earth dist.	2026 Nov 03 13:34	13°M31'58	0.67255 AU		2027 Sep 27 09:10	0°M	
inferior conj	2026 Nov 04 14:24	12°M10'51		retrograde	2027 Oct 07 14:37	4°M55'40	
minimum elong	2026 Nov 04 14:58	12°M09'00	0°22'10	evening set	2027 Oct 13 23:10	2°M17'52	
asc. node	2026 Nov 05 16:25	10°M46'49	0 22 10	evening set	2027 Oct 15 23:10 2027 Oct 16 07:36	30°R Ω	
morning rise	2026 Nov 10 04:12	6°M12'11		min. Earth dist.	2027 Oct 18 03:22	27° £ 52′29	0.66452 AU
direct		5°M02'01				26° £ 01'16	
	2026 Nov 13 15:54		10027110	inferior conj	2027 Oct 19 15:31		
morning max el	2026 Nov 20 23:31	9°M10'32	19°37'18	minimum elong	2027 Oct 19 17:38	25° £ 54'45	1-19/11
greatest brilliancy	2026 Dec 04 06:21	26°M51'25	-0.7m	asc. node	2027 Oct 23 13:27	21° Ω 40'18	
	2026 Dec 06 08:33	0° ⊼ ¹		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	1004601
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°ಕ			2027 Nov 10 00:26	0° ™	
max. Earth dist.	2026 Dec 28 11:41	4° る 18'00	1.44393 AU	morning set	2027 Nov 25 15:05	23°M59'37	
					2027 Nov 29 10:24	0° ∡	
superior conj	2027 Jan 01 17:08	11° る 02'52		desc. node	2027 Nov 30 20:14	2° ҂ 13′21	
minimum elong	2027 Jan 01 09:27	10° る 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° ∡ ³38'24	-1°09'48

minimum elong	2027 Dec 11 14:04	19° ₰ 06'06	1°08'52	evening rise	2028 Dec 06 11:17	23° ₹ 55'24	
	2027 Dec 18 11:58	0°ರ			2028 Dec 10 09:12	5°0	
evening rise	2027 Dec 27 11:23	14° る 19'28		greatest brilliancy	2028 Dec 18 21:05	13° る 03'15	-0.7m
greatest brilliancy	2028 Jan 02 14:30	24° る 11'26	-0.9m	evening max el	2028 Dec 31 00:43	29° る 24'41	19°34'59
	2028 Jan 06 05:58	0° ≈			2028 Dec 31 14:49	0° ≈	
evening max el	2028 Jan 17 17:17	15° ≈ 55'01	18°48'37	asc. node	2029 Jan 05 09:49	3° ≈ 17'45	
asc. node	2028 Jan 19 12:46	17° ≈ 35′02		retrograde	2029 Jan 07 07:57	3° ≈ 38′02	
retrograde	2028 Jan 24 11:02	19° ≈ 41'54		evening set	2029 Jan 10 20:18	2° ≈ 25'43	
evening set	2028 Jan 27 16:09	18° ≈ 42'47			2029 Jan 13 12:14	30°₹ ⋜	
inferior conj	2028 Feb 02 08:47	13° ≈ 01′27	3°30'46	inferior conj	2029 Jan 16 08:17	26° る 29'20	3°06'10
minimum elong	2028 Feb 02 06:57	13° ≈ 07'08	3°30'30	minimum elong	2029 Jan 16 05:46	26° る 37'34	3°05'36
min. Earth dist.	2028 Feb 04 02:55	10° ≈ 51'59	0.65346 AU	min. Earth dist.	2029 Jan 17 11:46	24° る 59'17	0.66546 AU
morning rise	2028 Feb 07 21:21	6°≈51'02		morning rise	2029 Jan 21 15:00	20° る 16'40	
direct	2028 Feb 14 12:38	3° ≈ 59'07		direct	2029 Jan 27 18:40	17° る 32'29	
desc. node	2028 Feb 26 19:28	10° ≈ 50'52		morning max el	2029 Feb 09 01:47	24° る 51'07	25°44'46
morning max el	2028 Feb 27 16:36	11° ≈ 42'59	26°53'38	desc. node	2029 Feb 12 16:30	28° る 45'57	
	2028 Mar 13 07:07	0° ∀			2029 Feb 13 17:52	0° ≈	
	2028 Mar 31 12:28	$0^{\circ}\mathbf{\Upsilon}$			2029 Mar 06 18:15	0° ∀	
morning set	2028 Apr 03 11:48	5° Y 35'33		morning set	2029 Mar 17 07:48	18° ∺ 16′21	
max. Earth dist.	2028 Apr 07 21:19	14° Ƴ 13'47	1.34255 AU	max. Earth dist.	2029 Mar 21 03:06	25° ∺ 23'30	1.35845 AU
					2029 Mar 23 12:19	$0^{\circ}\mathbf{\Upsilon}$	
superior conj	2028 Apr 11 22:56	22° Ƴ 34'10	-0°46'12				
minimum elong	2028 Apr 12 01:16	22° Y 46'21	0°45'43	superior conj	2029 Mar 26 16:34	6° Ƴ 18'13	
	2028 Apr 15 11:48	9° 8		minimum elong	2029 Mar 26 20:12	6° Ƴ 36′29	1°12'54
asc. node	2028 Apr 16 12:04	2° 8 08'06		asc. node	2029 Apr 03 09:07	22° Y 00'33	
evening rise	2028 Apr 19 10:00	8° 8 15'20		evening rise	2029 Apr 03 16:13	22° Ƴ 36'47	
	2028 May 01 01:42	$\Pi^{\circ}0$			2029 Apr 07 08:52	0°8	
evening max el	2028 May 09 06:13	10° Ⅱ 23'49	21°23'15	evening max el	2029 Apr 21 13:35	21° 8 38'41	20°05'31
retrograde	2028 May 21 08:43	16° Ⅱ 18'53		retrograde	2029 May 01 23:05	26° 8 40'20	
evening set	2028 May 23 17:09	16° Ⅱ 06'14		evening set	2029 May 03 23:42	26° 8 29'44	
desc. node	2028 May 24 18:40	15° Ⅱ 52'36		desc. node	2029 May 11 15:43	23° 8 17'36	
inferior conj	2028 Jun 02 02:46	12° ∏ 06′29		inferior conj	2029 May 12 23:27	22° 8 30'34	
minimum elong	2028 Jun 01 20:19	12° Ⅱ 15'32		minimum elong	2029 May 12 22:23	22° 8 32'10	
min. Earth dist.	2028 Jun 02 06:58	12° Ⅱ 00'35	0.54910 AU	min. Earth dist.	2029 May 14 20:10	21° 8 23'49	0.55305 AU
morning rise	2028 Jun 10 24:00	8° Ⅱ 08'27		morning rise	2029 May 21 19:16	18° 8 08'38	
direct	2028 Jun 14 06:06	7° Ⅱ 45'25		direct	2029 May 25 19:21	17° 8 33'39	
morning max el	2028 Jun 26 19:34	13° ∏ 42'38	22°13'58	morning max el	2029 Jun 08 11:50	24° 8 18'15	23°55'38
	2028 Jul 09 01:38	0ං ව			2029 Jun 13 16:46	Π $^{\circ}0$	
asc. node	2028 Jul 13 11:19	8°901'01		asc. node	2029 Jun 30 08:22	27° Ⅲ 38′00	
morning set	2028 Jul 18 08:24	17° © 51'35			2029 Jul 01 12:01	0.20	
	2028 Jul 24 01:51	0 ° Ω		morning set	2029 Jul 02 20:03	2° © 47'21	
	2020 1 25 12 00	20.000	1005151		2020 1 1 00 20 22	15005406	1005106
superior conj	2028 Jul 25 13:08	3° Ω 06'50	1°37'51	superior conj	2029 Jul 09 20:32	17°954'26	1°25'26
minimum elong	2028 Jul 25 11:19	2° Ω 57'16	1°37'43	minimum elong	2029 Jul 09 18:11	17°5941'47	1°25'08
max. Earth dist.	2028 Jul 28 20:58	10° Ω 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° Ω 22'58			2029 Jul 15 13:37	0° Ω	
1 1-	2028 Aug 08 05:10	0°M)		evening rise	2029 Jul 17 06:47	3° Ω 29'40	
desc. node	2028 Aug 20 17:59 2028 Aug 27 13:08	20° Mp31′24 0° <u>₽</u>		daga mada	2029 Jul 31 23:35 2029 Aug 07 15:01	0° т р 9° т р 55'38	
	· ·	0 <u>≈</u> 11° ≏ 18'04	27902114	desc. node	_		27925115
evening max el	2028 Sep 06 10:20		2/ 03/14	evening max el	2029 Aug 19 21:42	24° Mp 32'16 0° <u>₽</u>	27-25-15
retrograde	2028 Sep 19 16:34	18° Ω 35'39			2029 Aug 27 02:21	0° 22 1° 2 49'51	
evening set	2028 Sep 26 12:54	15° £ 52'11	0.65200 ATT	retrograde	2029 Sep 02 12:18		
min. Earth dist.	2028 Sep 30 10:22		0.65300 AU		2029 Sep 08 10:59	30°RM)	
inferior conj	2028 Oct 02 10:38	9° £ 45'55		evening set	2029 Sep 09 16:13	29° Mp 10'16	0.62002.411
minimum elong	2028 Oct 02 14:20	9° ≙ 35'23 4° ≙ 09'41	2-17-12	min. Earth dist.	2029 Sep 13 08:17	25° m 55'13	0.63803 AU
morning rise	2028 Oct 08 16:32			inferior conj	2029 Sep 15 21:11	23° m 18'33	
asc. node	2028 Oct 09 10:31	3° £ 50'32		minimum elong	2029 Sep 16 02:10	23° Mp 05'44	3 13 31
direct	2028 Oct 11 10:28	3° £ 28′50	10011111	morning rise	2029 Sep 22 13:14	17° m 58'31	
morning max el	2028 Oct 17 23:04	7° Ω 00'12	18,11,11	direct	2029 Sep 25 02:02	17° Mp 26'50	
	2028 Nov 02 15:04	0°M		asc. node	2029 Sep 26 07:35	17° Mp 34'27	17052127
morning set	2028 Nov 05 11:14	4°M40'27		morning max el	2029 Oct 01 15:12	20° m 52'28	17°53'37
desc. node	2028 Nov 16 17:17	22°M56'10			2029 Oct 08 12:41	0° ⊽	
	2020 N 20 01 10	200m 1515	0022122	morning set	2029 Oct 18 10:02	16° Ω 38'25	
superior conj	2028 Nov 20 01:40	28°M15'52			2029 Oct 26 06:04	0°M	
minimum elong	2028 Nov 19 22:48	28°M04'31	0°21'58		2020 0 : 20 22 1	70W / 010 -	002 427
ges - 21 - 21	2028 Nov 21 04:00	0° ⊀ 7	1 45000 : **	superior conj	2029 Oct 30 23:14	7°M49'03	0°24'27
max. Earth dist.	2028 Nov 22 23:48	2° ≯ 52'40	1.45032 AU	minimum elong	2029 Oct 31 01:50	7°M59'43	0°24'05

desc. node	2029 Nov 03 14:18	13°M42'37		max. Earth dist.	2030 Oct 19 07:47	1° M L00'22	1.42869 AU
max. Earth dist.	2029 Nov 05 17:52	17° M 09'14	1.44262 AU	desc. node	2030 Oct 21 11:19	4°M29'45	
	2029 Nov 13 22:09	0° ∡ ¹		evening rise	2030 Oct 26 08:27	12°ML15'27	
evening rise	2029 Nov 15 20:58	3° ₹ 00'42		-	2030 Nov 07 00:31	0° ∡ ¹	
	2029 Dec 03 22:47	0°ප		evening max el	2030 Nov 26 23:29	26° ₹ ¹25'30	21°48'06
evening max el	2029 Dec 14 02:58	12° る 54'55	20°35'54		2030 Dec 01 02:27	0°ರ	
retrograde	2029 Dec 22 05:51	17° る 42'28		retrograde	2030 Dec 06 02:47	1° る 51'52	
asc. node	2029 Dec 23 06:51	17° る 36'24		evening set	2030 Dec 10 10:51	0° ප 08'51	
evening set	2029 Dec 26 03:09	16° ප 15'27		asc. node	2030 Dec 10 03:53	0° ට 22'21	
inferior conj	2029 Dec 31 12:28	10° පි 06'45	2°32'00		2030 Dec 10 15:11	30°R ✓	
minimum elong	2029 Dec 31 09:52	10°る15'37	2°31'13	inferior conj	2030 Dec 15 19:14	23° ∡ 751′10	1°50'14
min. Earth dist.	2030 Jan 01 02:50	9° る 17'48	0.67339 AU	minimum elong	2030 Dec 15 17:02	23° ₹ ¹58'50	1°49'26
morning rise	2030 Jan 05 16:25	3° る 53'37		min. Earth dist.	2030 Dec 15 21:55	23° ∡ ¹41'54	0.67752 AU
direct	2030 Jan 11 05:45	1° る 26'14		morning rise	2030 Dec 20 23:04	17° ∡ ³39'11	
morning max el	2030 Jan 22 10:11	8° る 06'24	24°21'05	direct	2030 Dec 25 21:14	15° ∡ ³33′26	
desc. node	2030 Jan 30 13:32	17° る 34'53		morning max el	2031 Jan 04 19:56	21° ∡ ¹27′06	22°52'33
	2030 Feb 08 14:03	0° ≈			2031 Jan 12 04:19	0°₹	
morning set	2030 Feb 27 07:43	29°≈54'25		desc. node	2031 Jan 17 10:33	7° る 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	1 20051 177
	2020.14 00 22.54	1001/04/50	1025150	max. Earth dist.	2031 Feb 12 19:46	17°≈59'17	1.39954 AU
superior conj	2030 Mar 09 22:54	19° ¥ 24'52			2031 Feb 19 15:02	0° ℋ	
minimum elong	2030 Mar 10 03:12	19°) 45'33	1°37′28		2021 E.L. 20, 12.26	10)/ 40147	1056121
	2030 Mar 15 08:42	0°Υ 6°Υ34'43		superior conj	2031 Feb 20 13:36	1°) 42'47	
evening rise	2030 Mar 18 16:17			minimum elong	2031 Feb 20 17:09	1° ¥ 59'01	1°56'18
asc. node	2030 Mar 21 06:10	11° Ƴ 38'14 0° 呂		evening rise	2031 Mar 02 07:10	20° 光 00'55 0° Ƴ	
avanina may al	2030 Apr 01 04:47	3° 8 33'11	19°06'42	ana mada	2031 Mar 07 15:01	0° Y 55'03	
evening max el retrograde	2030 Apr 04 08:20 2030 Apr 13 02:33	7° 8 47'57	19-00 42	asc. node evening max el	2031 Mar 08 03:13 2031 Mar 18 12:07	16° Υ 02'08	18°28'01
evening set	2030 Apr 15 05:59	7° 8 33'47		retrograde	2031 Mar 18 12:07 2031 Mar 26 00:44	10 1 02 08 19° Y 44'33	16 2601
inferior conj	2030 Apr 23 11:14	3° 8 21'15	1°24'50	evening set	2031 Mar 28 09:59	19 γ 44 33	
minimum elong	2030 Apr 23 11:14 2030 Apr 23 14:23	3° 8 15'50	1°23'48	inferior conj	2031 Mai 28 09:39 2031 Apr 04 20:02	19 γ 23 20 14° γ 51'31	2°41'41
min. Earth dist.	2030 Apr 26 11:24	1° 8 18'17	0.56573 AU	minimum elong	2031 Apr 04 20:02 2031 Apr 04 23:57	14° Υ 43'38	2°40'44
desc. node	2030 Apr 28 12:44	0° 8 01'28	0.30373710	min. Earth dist.	2031 Apr 04 25:37 2031 Apr 08 06:30	12° Υ 07'13	0.58451 AU
dese. Hode	2030 Apr 28 13:44	30°RY		morning rise	2031 Apr 12 11:01	9° Υ 24'06	0.30431710
morning rise	2030 May 01 19:47	28° Y 25'03		desc. node	2031 Apr 15 09:46	8° Υ 14'56	
direct	2030 May 06 20:15	27° Y 26'11		direct	2031 Apr 18 11:16	7° Υ 50'29	
	2030 May 15 01:30	0°8		morning max el	2031 May 02 20:32	15° Ƴ 31'40	26°52'08
morning max el	2030 May 21 02:20	4° 8 45'35	25°33'37		2031 May 14 14:00	0°8	
5 5	2030 Jun 08 06:31	0°П			2031 May 31 12:23	0°II	
morning set	2030 Jun 17 07:45	17° Ⅱ 43'27		morning set	2031 Jun 01 17:48	2° Ⅱ 32'56	
asc. node	2030 Jun 17 05:25	17° Ⅱ 31′08		asc. node	2031 Jun 04 02:28	7° Ⅱ 34'06	
	2030 Jun 22 23:56	0°ಅ					
				superior conj	2031 Jun 08 18:50	17° Ⅱ 47'59	0°47'43
superior conj	2030 Jun 24 07:05	2° © 50'41	1°08'28	minimum elong	2031 Jun 08 16:55	17° Ⅱ 37′28	0°47'19
minimum elong	2030 Jun 24 04:43	2° 5 37'47	1°08'04	max. Earth dist.	2031 Jun 08 18:17	17° Ⅱ 45′00	1.32205 AU
max. Earth dist.	2030 Jun 25 06:28	4°ॐ58'40	1.32554 AU		2031 Jun 14 09:09	0ಂಣ	
evening rise	2030 Jul 01 08:49	18° 5 00'13		evening rise	2031 Jun 15 16:13	2°5544'43	
	2030 Jul 07 10:23	$0^{\circ}\Omega$			2031 Jun 30 08:25	$0^{\circ}\Omega$	
desc. node	2030 Jul 25 12:02	28° Ω 35'54		desc. node	2031 Jul 12 09:03	16° Ω 12'53	
	2030 Jul 26 14:54	0° m		evening max el	2031 Jul 15 07:25	19° Ω 12'51	26°34'04
evening max el	2030 Aug 02 05:35	7° Mp 14'31	27°16'13	retrograde	2031 Jul 29 06:48	26° Ω 25'35	
retrograde	2030 Aug 16 01:20	14° Tp 29'44		evening set	2031 Aug 04 23:46	24° Ω 31'39	
evening set	2030 Aug 23 05:23	12°Mp06'17		min. Earth dist.	2031 Aug 08 20:51	21° Ω 55'24	0.59954 AU
min. Earth dist.	2030 Aug 26 19:40	9° m 17'49	0.61989 AU	inferior conj	2031 Aug 12 04:05	19° Ω 17'20	
inferior conj	2030 Aug 29 20:11	6° Tp 32'16		minimum elong	2031 Aug 12 07:54	19° Ω 09'40	4°43'47
minimum elong	2030 Aug 30 01:30		4°05'02	morning rise	2031 Aug 19 18:05	14° Ω 39'20	
morning rise	2030 Sep 05 23:10	1° Mp 31'59		direct	2031 Aug 22 04:28	14° Ω 17'39	10014114
direct	2030 Sep 08 09:28	1° Mp 06'28		morning max el	2031 Aug 29 17:35	17° Ω 57'51	18°14'14
asc. node	2030 Sep 13 04:37	2° Mp 49'16	17054114	asc. node	2031 Aug 31 01:39	19° Ω 21'04	
morning max el	2030 Sep 15 06:26	4° Mp 34'38	17°54'14	marning	2031 Sep 07 09:56	0°M) 13°m-13!46	
morning set	2030 Oct 01 05:19 2030 Oct 01 10:50	29° ™ 35'01 0° ₽		morning set	2031 Sep 14 15:21	13° ™ 13'46 0° ₽	
	2030 OCI 01 10:30	v ==			2031 Sep 23 14:35	v ==	
superior conj	2030 Oct 11 23:48	18° ≏ 42'18	1°01'50	superior conj	2031 Sep 24 01:27	0° ჲ 49'25	1°27'09
minimum elong	2030 Oct 11 23:48 2030 Oct 12 04:21	18 = 42 18 19° £ 01'53	1°01'30 1°01'15	minimum elong	2031 Sep 24 01:27 2031 Sep 24 05:14	1° ⊆ 4923	1°26'47
minimum ciong	2030 Oct 12 04:21 2030 Oct 18 17:03	0° ™	1 01 13	max. Earth dist.	2031 Sep 24 03:14 2031 Oct 01 15:54	1 = 00 33 14° ⊆ 11'02	1.41029 AU
	2030 000 10 17.03	O IIO		man. Durin dist.	2031 000 01 13.54	1. —1102	1.11027 AU

asc. node	2033 Aug 03 19:46	25° © 16'32		asc. node	2034 Jul 21 16:50	14° © 14'30	
	2033 Aug 06 12:31	$0 ^{\circ} \Omega$		morning set	2034 Jul 27 23:41	26° © 39'27	
morning set	2033 Aug 12 15:25	11° Ω 54'10			2034 Jul 29 14:13	$0 {\circ} \Omega$	
superior conj	2033 Aug 20 10:33	27° Ω 43'59	1°45'43	superior conj	2034 Aug 04 08:24	12° Ω 03′26	1°42'35
minimum elong	2033 Aug 20 10:42	27° Ω 44'40	1°45'43	minimum elong	2034 Aug 04 07:08	11° Ω 56'55	1°42'31
	2033 Aug 21 13:55	0° mp		max. Earth dist.	2034 Aug 08 11:54	20° Ω 30′26	1.35258 AU
max. Earth dist.	2033 Aug 26 00:56	8° m 38'10	1.36997 AU	evening rise	2034 Aug 12 18:44	28° Ω 51'28	
evening rise	2033 Aug 29 20:57	15° m 43'49			2034 Aug 13 09:14	O° m	
	2033 Sep 07 03:49	0∘ ত		desc. node	2034 Aug 28 23:27	26° Mp 27′18	
desc. node	2033 Sep 11 02:24	6° ≏ 18'20			2034 Aug 31 08:33	0∘ ত	
	2033 Sep 28 01:44	0° M ₊		evening max el	2034 Sep 17 04:16	20° £ 53'03	26°38'27
evening max el	2033 Oct 04 16:04	7°ML15'30	25°39'31	retrograde	2034 Sep 30 03:00	28° ഫ 06'59	
retrograde	2033 Oct 16 22:03	14° M .16'09		evening set	2034 Oct 06 17:07	25° £ 25'41	
evening set	2033 Oct 22 22:47	11°ML45'03		min. Earth dist.	2034 Oct 10 18:22	21° ♀ 16'03	0.66016 AU
min. Earth dist.	2033 Oct 27 07:17	6°M58'51	0.66960 AU	inferior conj	2034 Oct 12 11:36	19° £ 13'12	
inferior conj	2033 Oct 28 12:46	5°M24'49		minimum elong	2034 Oct 12 14:24	19° ⊆ 04'50	1°43'46
minimum elong	2033 Oct 28 12:40 2033 Oct 28 13:58	5°M20'58		asc. node	2034 Oct 17 16:00	14° ⊆ 00'30	1 43 40
asc. node	2033 Oct 28 13:58 2033 Oct 30 18:57	2°MJ38'18	0 40 03	morning rise	2034 Oct 17 10:00 2034 Oct 18 12:16	13° £ 29'26	
asc. node	2033 Nov 02 12:07	2 11636 16 30°R Ω		direct	2034 Oct 18 12:10 2034 Oct 21 10:22	13 = 2920 12° £ 41'40	
	2033 Nov 02 12.07 2033 Nov 03 05:25						10020100
morning rise		29° £ 29'47		morning max el	2034 Oct 28 01:32		18°29'08
direct	2033 Nov 06 12:40	28° £ 26'56			2034 Nov 07 04:05	0°M	
	2033 Nov 10 18:34	0°M		morning set	2034 Nov 17 00:30	15°M41'37	
morning max el	2033 Nov 13 13:45	2°M24'03	19°13'29	desc. node	2034 Nov 24 22:43	28°M20'30	
	2033 Dec 03 02:51	0° ∡ ¹			2034 Nov 25 23:51	0°⊀	
morning set	2033 Dec 06 21:21	5° ∡ 751′24					
desc. node	2033 Dec 08 01:39	7° ∡ ¹41'32		superior conj	2034 Dec 02 16:45	10° ≯ ³34'01	
max. Earth dist.	2033 Dec 20 19:16	27° ₹ ³37'16	1.44780 AU	minimum elong	2034 Dec 02 10:21	10° ≯ 08'53	0°49'33
	2033 Dec 22 07:24	0° ರ		max. Earth dist.	2034 Dec 03 14:01	11° ≯ 57'31	1.45155 AU
					2034 Dec 15 01:35	0°₹	
superior conj	2033 Dec 23 15:09	2° る 05'46	-1°32'35	evening rise	2034 Dec 18 18:14	5° る 49'54	
minimum elong	2033 Dec 23 06:23	1°る31'00	1°31'45	greatest brilliancy	2034 Dec 28 08:02	20° පි 56'10	-0.8m
evening rise	2034 Jan 07 05:51	25° る 44'59			2035 Jan 03 07:28	0° ≈	
	2034 Jan 09 19:35	0° ≈		evening max el	2035 Jan 10 08:04	8° ≈ 58'56	19°06'22
asc. node	2034 Jan 26 18:18	25° ≈ 21′03		asc. node	2035 Jan 13 15:19	11° ≈ 45′07	
evening max el	2034 Jan 26 22:24	25° ≈ 31'33	18°29'26	retrograde	2035 Jan 17 06:44	12° ≈ 56′13	
retrograde	2034 Feb 02 11:22	29° ≈ 07'00		evening set	2035 Jan 20 14:45	11° ≈ 51'34	
evening set	2034 Feb 05 13:05	28° ≈ 14'38		inferior conj	2035 Jan 26 05:06	6°≈03'12	3°21'39
inferior conj	2034 Feb 11 09:29	22°≈42'51	3°39'27	minimum elong	2035 Jan 26 02:54	6°≈10'12	3°21'16
minimum elong	2034 Feb 11 08:18	22° ≈ 46'18	3°39'21	min. Earth dist.	2035 Jan 27 16:43	4°≈10'16	0.65902 AU
min. Earth dist.	2034 Feb 13 12:24	20°≈13'50	0.64477 AU		2035 Jan 31 10:58	30°Ŗ₹	
morning rise	2034 Feb 17 03:00	16° ≈ 35'01		morning rise	2035 Jan 31 14:45	29° る 51'30	
direct	2034 Feb 23 22:54	13° ≈ 44'39		direct	2035 Feb 07 01:25	27° る 01'49	
desc. node	2034 Mar 06 00:51	18° ≈ 25'09			2035 Feb 14 14:32	0° ≈	
morning max el	2034 Mar 09 11:36	21° ≈ 35'28	27°22'40	morning max el	2035 Feb 19 21:32	4°≈36'45	26°26'57
	2034 Mar 16 19:53	0° ∀		desc. node	2035 Feb 20 21:55	5° ≈ 39'30	
	2034 Apr 05 13:01	$0^{\circ}\Upsilon$		dese. Hode	2035 New 20 21:35 2035 Mar 11 07:16	0° ∀	
morning set	2034 Apr 13 18:18	15° Υ 15'54		morning set	2035 Mar 27 23:17	28°) 25'44	
max. Earth dist.	2034 Apr 18 13:28	24° Y 55'41	1.33552 AU	morning sec	2035 Mar 28 19:13	0°Υ	
max. Earth dist.	2034 Apr 20 23:46	0° 8	1.55552 110	max. Earth dist.	2035 Apr 01 02:19	6° Υ 22'41	1.34873 AU
	2034 Apr 20 23.40	٠ ن		max. Lartii dist.	2033 Apr 01 02.17	0 12241	1.54675 AC
superior conj	2034 Apr 21 20:08	1° 8 47'37	-0°30'03	superior conj	2035 Apr 05 18:42	15° Ƴ 48'46	-0°57'57
	•	1° 8 55'36			•	15 γ 48 40 16° γ 03'49	
minimum elong	2034 Apr 21 21:39		0 2943	minimum elong	2035 Apr 05 21:37		0 3723
asc. node	2034 Apr 24 17:37	7° 8 57'57		asc. node	2035 Apr 11 14:41	27° Y 56'44 0° と	
evening rise	2034 Apr 29 01:53	17° 8 12'33			2035 Apr 12 14:22		
	2034 May 05 11:03	0°II	2201.4150	evening rise	2035 Apr 13 10:34	1° 8 44'39	
evening max el	2034 May 20 08:13	21° II 33'00	22~14'50		2035 Apr 30 01:45	0°II	2004010-
retrograde	2034 Jun 02 05:24	27° I 55'09		evening max el	2035 May 02 08:44	2° Ⅱ 26'10	20°48'05
desc. node	2034 Jun 02 00:06	27° II 55'02		retrograde	2035 May 13 18:40	7° Ⅱ 59'29	
evening set	2034 Jun 05 02:38	27° Ⅱ 36'44		evening set	2035 May 15 21:46	7° Ⅱ 48'38	
min. Earth dist.	2034 Jun 13 14:24		0.55125 AU	desc. node	2035 May 19 21:07	6° Ⅱ 36'22	
inferior conj	2034 Jun 14 10:59	23° II 28'57		inferior conj	2035 May 25 04:45	3° Ⅱ 50'47	
minimum elong	2034 Jun 14 03:05	23° Ⅱ 40′05	3°20'51	minimum elong	2035 May 25 00:23		1°31'04
morning rise	2034 Jun 23 05:23	19° Ⅱ 36'56		min. Earth dist.	2035 May 26 02:53		0.54952 AU
direct	2034 Jun 26 05:24	19° Ⅱ 16'41			2035 Jun 02 04:33	30° ₹8	
morning max el	2034 Jul 07 21:30	24° Ⅱ 43'10	21°19'21	morning rise	2035 Jun 03 02:34	29° 8 44'46	
	2034 Jul 12 16:13	0 \circ \odot		direct	2035 Jun 06 14:53	29° 8 18'11	

	2035 Jun 10 22:32	0° I I		min. Earth dist.	2036 May 06 17:06	12° 8 50'58	0.55742 AU
morning max el	2035 Jun 19 17:52		22°56'45	morning rise	2036 May 12 22:36	9° 8 46'29	
S	2035 Jul 06 16:37	0°9		direct	2036 May 17 08:29	9° 8 02'52	
asc. node	2035 Jul 08 13:55	3° © 39'36		morning max el	2036 May 31 08:42	16° 8 05'00	24°38'43
morning set	2035 Jul 12 10:36	11°533'06			2036 Jun 11 13:06	Π $^{\circ}0$	
-				asc. node	2036 Jun 24 10:59	23° Ⅱ 23'42	
superior conj	2035 Jul 19 13:05	26°543'28	1°33'13	morning set	2036 Jun 25 22:26	26° Ⅱ 29'04	
minimum elong	2035 Jul 19 10:59	26° © 32'16	1°33'00		2036 Jun 27 14:02	0 \circ \odot	
	2035 Jul 21 02:06	$0^{\circ}\Omega$					
max. Earth dist.	2035 Jul 22 07:43	2° £ 35′36	1.33889 AU	superior conj	2036 Jul 02 22:04	11° © 35'19	1°18'45
evening rise	2035 Jul 27 06:26	12° Ω 39'55		minimum elong	2036 Jul 02 19:39	11° 5 22'13	1°18'24
	2035 Aug 05 15:28	0° m ∕		max. Earth dist.	2036 Jul 04 12:00	15° © 00'59	1.32922 AU
desc. node	2035 Aug 15 20:27	16° Mp 10'47		evening rise	2036 Jul 10 04:06	26° © 57'32	
	2035 Aug 26 12:51	0∘ ⊽			2036 Jul 11 16:16	$0^{\circ}\Omega$	
evening max el	2035 Aug 30 16:11	4° £ 18'35	27°15'54		2036 Jul 28 23:16	0° ™	
retrograde	2035 Sep 13 02:28	11° ≏ 37'18		desc. node	2036 Aug 01 17:28	5° Mp 18'06	
evening set	2035 Sep 20 02:49	8° ≏ 53'44		evening max el	2036 Aug 12 02:19	17° m 20'38	27°25'27
min. Earth dist.	2035 Sep 23 21:36	5° ≙ 19'57	0.64712 AU	retrograde	2036 Aug 25 19:48	24° Mp 38'07	
inferior conj	2035 Sep 26 03:23	2° £ 53'07		evening set	2036 Sep 02 00:42	22° m 03'43	
minimum elong	2035 Sep 26 07:41	2° £ 41′20	2°41'36	min. Earth dist.	2036 Sep 05 15:16	19° Mp 01'10	
	2035 Sep 28 22:18	30°R Mp		inferior conj	2036 Sep 08 09:26	16° m 18'52	
morning rise	2035 Oct 02 13:31	27° m 23'40		minimum elong	2036 Sep 08 14:43	16° m 05'52	3°36'35
asc. node	2035 Oct 04 13:05	26° m/49'31		morning rise	2036 Sep 15 06:06	11°Mp06'51	
direct	2035 Oct 05 04:53	26° m/47'14		direct	2036 Sep 17 17:20	10° Tp 38'16	
	2035 Oct 11 10:49	0° ∵	10001120	asc. node	2036 Sep 20 10:09	11° m 13'15	15051121
morning max el	2035 Oct 11 16:57	0° £ 15'06	18°01'30	morning max el	2036 Sep 24 09:06	14° Mp 04'18	17°51'31
morning set	2035 Oct 29 08:34	26° £ 56'49			2036 Oct 05 08:21	0∘ ი 22114	
JJ.	2035 Oct 31 04:18	0°M		morning set	2036 Oct 10 16:54	9° ≏ 22'14	
desc. node	2035 Nov 11 19:44	19°M05'05			2026 0-4 22 10.46	200 0 27105	0041142
superior coni	2035 Nov 12 01:57	19° M .30'03	0001146	superior conj minimum elong	2036 Oct 22 10:46 2036 Oct 22 14:39	29° £ 37'05 29° £ 53'15	0°41'43 0°41'11
superior conj minimum elong	2035 Nov 12 01:37 2035 Nov 12 01:44	19°M29'09	0°01'44	minimum elong	2036 Oct 22 14.39 2036 Oct 22 16:16	0°M	0 4111
behind sun begin	2035 Nov 12 01:44 2035 Nov 11 15:14	18°M47'05	0 01 44	desc. node	2036 Oct 28 16:45	9°M52'31	
behind sun end	2035 Nov 11 13:14 2035 Nov 12 12:13	20°M11'09		max. Earth dist.	2036 Oct 29 10:43 2036 Oct 29 00:52	10°M25'11	1.43736 AU
max. Earth dist.	2035 Nov 16 08:45	26°M18'54	1.44787 AU	evening rise	2036 Nov 06 18:45	24°M12'23	1.43730 AC
max. Lartii dist.	2035 Nov 18 16:53	0°×7	1.44707 710	evening rise	2036 Nov 10 13:20	0° √	
evening rise	2035 Nov 28 10:28	15° ₹ '08'16			2036 Dec 01 09:40	0°る	
	2035 Dec 08 03:27	0°ਰ		evening max el	2036 Dec 06 13:08	5° る 58'59	21°05'32
greatest brilliancy	2035 Dec 12 11:15	6° る 28'55	-0.6m	retrograde	2036 Dec 15 02:06	11° る 02'51	
evening max el	2035 Dec 24 13:18	22° る 28'14		asc. node	2036 Dec 17 09:23	10° る 33'20	
asc. node	2035 Dec 31 12:21	26°る53'24		evening set	2036 Dec 19 03:40	9° ට 29'25	
retrograde	2036 Jan 01 04:25	26° る 55'53		inferior conj	2036 Dec 24 12:25	3° ප 16'37	2°15'07
evening set	2036 Jan 04 20:16	25° る 37'37		minimum elong	2036 Dec 24 09:56	3° ප 25'11	2°14'18
inferior conj	2036 Jan 10 06:52	19° る 35'29	2°52'43	min. Earth dist.	2036 Dec 24 21:45	2° る 44'30	0.67560 AU
minimum elong	2036 Jan 10 04:15	19° る 44'14	2°52'02		2036 Dec 26 23:09	30°₽ ⋌ ¹	
min. Earth dist.	2036 Jan 11 04:36	18° る 22'48	0.66926 AU	morning rise	2036 Dec 29 16:00	27° ∡ 03'35	
morning rise	2036 Jan 15 12:02	13° る 22'08		direct	2037 Jan 03 22:57	24° ⊀ ¹44'46	
direct	2036 Jan 21 09:42	10° ಕ 44'13			2037 Jan 13 11:53	0° ප	
morning max el	2036 Feb 02 06:22	17° る 48'49	25°10'22	morning max el	2037 Jan 14 14:49	1° る 06'00	23°43'19
desc. node	2036 Feb 07 18:57	23° る 59'35		desc. node	2037 Jan 24 15:58	13° る 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° 升 17′25		superior conj	2037 Mar 02 08:09	12°) (04'45	
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° Υ		evening rise	2037 Mar 11 10:58	29°) (41'18	
evening rise	2036 Mar 27 14:27	15°Υ56'21		1	2037 Mar 11 14:48	0°Υ 7°W12115	
asc. node	2036 Mar 28 11:42	17° Y 43'02		asc. node	2037 Mar 15 08:43	7°Υ12'15 26°Υ07'38	10047140
arrania 1	2036 Apr 03 22:09	0° 8	10020107	evening max el	2037 Mar 27 20:05		18°47'48
evening max el retrograde	2036 Apr 13 21:03 2036 Apr 23 13:18	13° 8 57'26 18° 8 37'49	19°38'07	retrograde	2037 Apr 03 16:24 2037 Apr 05 00:06	0° ႘ 06'06	
evening set	2036 Apr 25 13:18 2036 Apr 25 14:07	18° 8 26'21		renograde	2037 Apr 05 00:06 2037 Apr 06 08:16	0°8Υ	
inferior conj	2036 Apr 23 14:07 2036 May 04 06:34	14° 8 23'01	0°25'39	evening set	2037 Apr 06 08:16 2037 Apr 07 06:02	30° γ 1 29° γ 49'13	
minimum elong	2036 May 04 00:34 2036 May 04 07:40	14° 8 23'01	0°25'15	inferior conj	2037 Apr 07 00:02 2037 Apr 15 02:56	29 γ 49 13 25° γ 29'09	2°01'39
desc. node	2036 May 05 18:09	13° 8 26'43	0 20 10	minimum elong	2037 Apr 15 02:30 2037 Apr 15 06:48	25° Y 22'03	2°00'31
acse. Hode	2000 may 00 10.09	15 020 73		minimum ciong	205, 11pt 15 00.40	20 1 22 03	2 00 0 1

min. Earth dist.	2037 Apr 18 09:43	23° Y 05'58	0.57323 AU	min. Earth dist.	2038 Mar 31 06:50	4° Ƴ 21'41	0.59355 AU
desc. node	2037 Apr 22 15:10	20° Ƴ 33'57		morning rise	2038 Apr 04 03:46	1° Y 38'58	
morning rise	2037 Apr 23 04:26	20° Y 18'50			2038 Apr 08 13:08	30° ₹ ₩	
direct	2037 Apr 28 15:56	19° Y 05'43		desc. node	2038 Apr 09 12:10	29° ¥ 52'17	
morning max el	2037 May 12 23:57	26° Ƴ 35'51	26°10'13	direct	2038 Apr 10 12:12	29°) 49′35	
	2037 May 16 05:46	0° 8			2038 Apr 12 11:56	0° Y	
	2037 Jun 04 18:27	Π $\circ 0$		morning max el	2038 Apr 24 20:27	7° Ƴ 35'39	27°16'28
morning set	2037 Jun 10 09:34	11° ∐ 22'11			2038 May 11 18:01	9° 8	
asc. node	2037 Jun 11 08:00	13° ∐ 21′02		morning set	2038 May 25 18:24	26° 8 07'18	
					2038 May 27 14:31	Π °0	
superior conj	2037 Jun 17 09:18	26° Ⅲ 32'11	1°00'05	asc. node	2038 May 29 05:02	3° Ⅱ 26'55	
minimum elong	2037 Jun 17 07:05	26° Ⅱ 19'59	0°59'41				
max. Earth dist.	2037 Jun 17 22:07	27° Ⅱ 42'36	1.32357 AU	superior conj	2038 Jun 01 21:04	11° Ⅱ 28'19	0°37'55
	2037 Jun 18 23:11	0∘ ௐ		minimum elong	2038 Jun 01 19:28	11° Ⅱ 19'32	0°37'36
evening rise	2037 Jun 24 08:42	11° © 34'40		max. Earth dist.	2038 Jun 01 10:32	10° Ⅱ 30′20	1.32177 AU
	2037 Jul 03 21:01	0° Ω		evening rise	2038 Jun 08 17:45	26° Ⅱ 23'25	
desc. node	2037 Jul 19 14:29	23° Ω 33'53	27002120		2038 Jun 10 11:13	0° ©	
evening max el	2037 Jul 25 08:06	29° Ω 45'47	27°02'29	1 1	2038 Jun 27 15:59	0° Ω 10° Ω 37'00	
	2037 Jul 25 14:09	0° M)		desc. node	2038 Jul 06 11:30		26906144
retrograde	2037 Aug 08 05:46	6° M) 59'35		evening max el	2038 Jul 07 07:08 2038 Jul 21 06:59	11° Ω 24'48 18° Ω 35'11	26°06'44
evening set min. Earth dist.	2037 Aug 15 06:27 2037 Aug 18 22:24	4° m/47'34 2° m/06'05	0.61133 AU	retrograde evening set	2038 Jul 27 15:25	$16^{\circ}\Omega57'08$	
IIIII. Eartii tist.	2037 Aug 18 22.24 2037 Aug 21 08:56	2 11/06/03 30°RΩ	0.01133 AU	min. Earth dist.	2038 Jul 31 19:44		0.59072 AU
inferior conj	2037 Aug 21 08:30 2037 Aug 22 02:28	29° Ω 21'42	-1°21'31	inferior conj	2038 Aug 04 02:55	$11^{\circ}\Omega 52'10$	
minimum elong	2037 Aug 22 02:28 2037 Aug 22 07:26	$29^{\circ}\Omega 10'55$		minimum elong	2038 Aug 04 02:33 2038 Aug 04 05:20	$11^{\circ} \Omega 47'37$	
morning rise	2037 Aug 22 07:20 2037 Aug 29 10:07	24° Ω 30'19	7 2331	morning rise	2038 Aug 11 21:24	7° Ω 23'44	4 33 30
direct	2037 Aug 31 20:07	24°Ω06'40		direct	2038 Aug 14 08:49	7° Ω 02'57	
asc. node	2037 Sep 07 07:12	27° Ω 02'21		morning max el	2038 Aug 22 07:20	10° Ω 51'17	18°28'59
morning max el	2037 Sep 07 07:12 2037 Sep 07 22:56	27° Ω 39'01	18°00'16	asc. node	2038 Aug 25 04:15	14° Ω 02'23	10 20 3 7
morning must er	2037 Sep 10 02:18	0° m)	10 00 10	use. noue	2038 Sep 03 23:41	0° m)	
morning set	2037 Sep 23 19:09	22° m/38'55		morning set	2038 Sep 07 10:08	6° Mp 32'29	
	2037 Sep 27 18:59	0∘ ⊽				· · · · · · · · · · · · · · · · · · ·	
				superior conj	2038 Sep 16 09:22	23° m 37'33	1°34'21
superior conj	2037 Oct 03 22:34	11° ჲ 03'13	1°14'01	minimum elong	2038 Sep 16 12:25	23° m 51'43	1°34'08
minimum elong	2037 Oct 04 03:01	11° ≏ 22'47	1°13'31	Č	2038 Sep 19 21:04	0∘ <u>⊽</u>	
max. Earth dist.	2037 Oct 11 12:33	24° ₽ 01'13	1.42132 AU	max. Earth dist.	2038 Sep 23 19:13	6° £ 55'55	1.40174 AU
	2037 Oct 15 04:07	0° M		evening rise	2038 Sep 28 02:45	14° ≙ 15'59	
desc. node	2037 Oct 15 13:46	0°M38'57		desc. node	2038 Oct 02 10:49	21° ≏ 21'09	
evening rise	2037 Oct 17 12:10	3°M44'45			2038 Oct 07 23:26	0° M ₊	
	2037 Nov 03 22:40	0° ∡ ¹			2038 Oct 29 23:58	0° ∡ 7	
evening max el	2037 Nov 19 07:33	19° ∡ ³30'59	22°21'12	evening max el	2038 Nov 01 21:48	3° ∡ ¹05'41	23°41'03
retrograde	2037 Nov 28 22:01	25° х 13′29		retrograde	2038 Nov 12 14:56	9° ∡ ¹24'56	
evening set	2037 Dec 03 11:14	23° ∡ ¹23'27		evening set	2038 Nov 17 17:22	7° ∡ 17'45	
asc. node	2037 Dec 04 06:25	22° ∡ ′40′51		asc. node	2038 Nov 21 03:27	3° ∡ ³33′29	
inferior conj	2037 Dec 08 19:43	17° ∡ 03'22	1°30'36	min. Earth dist.	2038 Nov 22 14:22	1° ∡ ³37′06	0.67755 AU
minimum elong	2037 Dec 08 17:48	17° ∡ 10'01	1°29'52	inferior conj	2038 Nov 23 02:58	0° ∡ 754'08	0°40'32
min. Earth dist.	2037 Dec 08 17:47	17° ∡ 10′04	0.67831 AU	minimum elong	2038 Nov 23 02:01	0° ∡ 757'22	0°40'08
morning rise	2037 Dec 14 00:13	10° ₹ 52'36			2038 Nov 23 18:54	30°RM₊	
direct	2037 Dec 18 16:12	8° ₹ 56'22	20015:22	morning rise	2038 Nov 28 10:38	24°M47'39	
morning max el	2037 Dec 28 02:01	14° ₹ ¹29'02	22°15'33	direct	2038 Dec 02 12:30	23°MJ14'10	
	2038 Jan 09 13:32	0°る		morning max el	2038 Dec 10 19:31	28°M02'23	20°54'50
desc. node	2038 Jan 11 12:59	2° る 46'54		1 1	2038 Dec 12 15:41	0° ⊀ ⁷	
. ,	2038 Jan 29 11:22	0° ≈		desc. node	2038 Dec 29 10:01	22° ₹ 51'19	
morning set	2038 Jan 30 09:49	1°≈30'40	1 40064 ATT		2039 Jan 03 04:05	0°る	
max. Earth dist.	2038 Feb 04 19:36	10° ≈ 26'52	1.40864 AU	morning set max. Earth dist.	2039 Jan 09 15:59 2039 Jan 17 23:45	10°る00'21 23°る15'51	1.42786 AU
gunariar aani	2029 Eab 12 14:40	2200059127	2001120	max. Earm dist.		23 ⊘ 13 31 0° ≈	1.42/80 AU
superior conj minimum elong	2038 Feb 12 14:40 2038 Feb 12 17:14	23°≈58'27 24°≈09'54			2039 Jan 22 02:00	· ~	
minimum ciong	2038 Feb 12 17.14 2038 Feb 15 22:41	24 ≈ 09 34 0°) €	2 01 32	superior conj	2039 Jan 24 22:09	4° ≈ 46'05	-2°04'14
evening rise	2038 Feb 13 22.41 2038 Feb 22 20:50	0 X 12° ¥ 51'13		minimum elong	2039 Jan 24 20:31	4 ≈40 03 4°≈39'07	
asc. node	2038 Mar 02 05:44	26° ¥ 18′07		evening rise	2039 Feb 05 16:09	4 ≈3907 25°≈17'34	2 0712
	2038 Mar 04 10:56	20 γ (1807		3.0	2039 Feb 08 07:27	0° ∺	
evening max el	2038 Mar 11 02:47	8° Υ '48'52	18°17'40	asc. node	2039 Feb 17 02:46	14°) 52'44	
retrograde	2038 Mar 18 06:07	12° Υ 22'16	10 17 10	evening max el	2039 Feb 22 13:56	21° H 51'55	18°07'17
evening set	2038 Mar 20 18:03	11° Y '57'08		retrograde	2039 Mar 01 04:12	25°\(\frac{1}{15}\)'56	/ -/
inferior conj	2038 Mar 27 20:41	7° Υ 16'16	3°04'03	evening set	2039 Mar 03 21:27	24°) (41'06	
minimum elong	2038 Mar 28 00:09	7° Y ′08'50		inferior conj	2039 Mar 10 09:28	19°) € 39'27	3°35'37
				J		/	

minimum elong	2039 Mar 10 11:04	19°) € 35′28	3°35'28	evening max el	2040 Feb 06 02:33	5°) €09'26	18°16'03
min. Earth dist.	2039 Mar 13 11:22	16°) 38'08	0.61496 AU	retrograde	2040 Feb 12 13:39	8° ₩ 37'27	10 10 05
morning rise	2039 Mar 16 23:07	13°) (30°00	0.01.70110	evening set	2040 Feb 15 12:03	7° ¥ 51'54	
direct	2039 Mar 23 19:20	11°) 21'59		inferior conj	2040 Feb 21 13:13	2°) € 30'48	3°43'17
desc. node	2039 Mar 27 09:13	11°) 57'46		minimum elong	2040 Feb 21 12:55	2° 升 31'38	3°43'17
morning max el	2039 Apr 06 23:28	19° ₩ 16'41	27°47'46	C	2040 Feb 23 19:37	30° ₹ ≈	
-	2039 Apr 16 02:00	$0^{\circ}\mathbf{\Upsilon}$		min. Earth dist.	2040 Feb 24 01:11	29° ≈ 45′00	0.63479 AU
	2039 May 04 13:49	9° 8		morning rise	2040 Feb 27 12:56	26° ≈ 26′12	
morning set	2039 May 09 22:57	10° 8 36'58		direct	2040 Mar 05 11:20	23° ≈ 41'27	
max. Earth dist.	2039 May 15 21:09	23° 8 09'23	1.32382 AU	desc. node	2040 Mar 13 06:15	26° ≈ 30'47	
asc. node	2039 May 16 02:04	23° 8 36'09			2040 Mar 17 14:43	0° ℋ	
				morning max el	2040 Mar 19 07:11	1° ¥ 37′08	27°41'40
superior conj	2039 May 17 07:36	26° 8 17'02	0°12'59		2040 Apr 09 06:33	$0^{\circ}\mathbf{\Upsilon}$	
minimum elong	2039 May 17 07:00	26° 8 13'46	0°12'51	morning set	2040 Apr 22 20:54	24° Ƴ 43'44	
behind sun begin	2039 May 17 03:59	25° 8 57'18			2040 Apr 25 11:19	0°8	
behind sun end	2039 May 17 10:01	26° 8 30'14		max. Earth dist.	2040 Apr 28 01:54	5° 8 26'17	1.32998 AU
	2039 May 19 00:22	0°Ⅱ					
evening rise	2039 May 24 05:06	11° Ⅱ 15'34		superior conj	2040 Apr 30 15:10	10° 8 52'43	
. ,	2039 Jun 02 18:31	0°9	24044142	minimum elong	2040 Apr 30 15:51	10° 8 56'24	0°13'50
evening max el desc. node	2039 Jun 18 23:10	22°518'46	24°44'42	behind sun begin	2040 Apr 30 13:13	10° 8 42'13	
retrograde	2039 Jun 23 08:31 2039 Jul 02 21:48	25°\$57'24 29°\$22'43		behind sun end asc. node	2040 Apr 30 18:30 2040 May 01 23:08	11° 8 10'36 13° 8 44'47	
evening set	2039 Jul 02 21:48 2039 Jul 08 00:39	29°\$22'43 28°\$23'20		evening rise	2040 May 07 16:53	26° 8 04'58	
min. Earth dist.	2039 Jul 13 10:24	28 \$23 20 25°\$33'25	0.57127 AU	evening rise	2040 May 09 13:51	20 3 04 38 0° Ⅱ	
inferior conj	2039 Jul 15 10:24 2039 Jul 16 07:44	23° © 40'20			2040 May 27 20:42	0°©	
minimum elong	2039 Jul 16 05:10	23°544'32		evening max el	2040 May 30 12:55	2° © 48'52	23°09'31
morning rise	2039 Jul 24 12:24	19° © 33'37	1 33 12	desc. node	2040 Jun 09 05:32	8°959'40	23 07 31
direct	2039 Jul 27 03:07	19° © 14'26		retrograde	2040 Jun 13 00:19	9°932'16	
morning max el	2039 Aug 05 07:13	23° © 31'04	19°18'49	evening set	2040 Jun 16 15:00	9°503'40	
	2039 Aug 10 17:38	$0^{\circ}\Omega$		min. Earth dist.	2040 Jun 23 22:28	5°546'00	0.55641 AU
asc. node	2039 Aug 12 01:18	1° Ω 57'48		inferior conj	2040 Jun 25 16:53	4° © 43'59	-4°10'15
morning set	2039 Aug 22 09:57	20° Ω 51'37		minimum elong	2040 Jun 25 09:38	4° © 54'38	4°08'43
	2039 Aug 26 23:38	0° т р		morning rise	2040 Jul 04 06:48	0°950'34	
				direct	2040 Jul 07 02:21	0°ഇ31'33	
superior conj	2039 Aug 30 13:26	7° m 03'18	1°44'08	morning max el	2040 Jul 17 20:12	5°530'08	20°29'46
minimum elong	2039 Aug 30 14:35	7°№08'54	1°44'06	asc. node	2040 Jul 28 22:21	20°535'59	
max. Earth dist.	2039 Sep 05 22:48	19°Mp08'22	1.38115 AU		2040 Aug 02 22:31	0 $^{\circ}$ Ω	
evening rise	2039 Sep 09 17:19	25° m 54'04		morning set	2040 Aug 05 15:44	5° Ω 28'53	
	2039 Sep 12 02:05	0∘ ಹ					
desc. node	2039 Sep 19 07:52	11° ≏ 54'40		superior conj	2040 Aug 13 05:53	21° Ω 06'18	
	2039 Oct 01 13:30	0°M	24050146	minimum elong	2040 Aug 13 05:22	21° Ω 03'40	1°45'13
evening max el	2039 Oct 15 09:55	16°M43'42	24°58'46	D. d. F.	2040 Aug 17 17:02	0° m	1 2 (2 1 1 4 1 1
retrograde	2039 Oct 27 03:54	23°M32'59		max. Earth dist.	2040 Aug 18 05:10	0° Mp 58'58	1.36211 AU
evening set min. Earth dist.	2039 Nov 01 20:27 2039 Nov 06 09:13	21°M09'41 16°M03'08	0.67339 AU	evening rise	2040 Aug 22 05:03 2040 Sep 03 18:29	8° Mp 32'35 0° <u> </u>	
inferior conj	2039 Nov 07 08:26	14°M46'45		desc. node	2040 Sep 05 18:29 2040 Sep 05 04:55	0 == 2° £ 14'19	
minimum elong	2039 Nov 07 08:20 2039 Nov 07 08:47	14°M45'37		desc. Hode	2040 Sep 26 12:23	2 = 1419 0° M	
transit middle	2039 Nov 07 08:47	14°M45'37		evening max el	2040 Sep 26 21:55	0°ML23'18	26°06'52
transit begin	2039 Nov 07 07:18	14°M50'29	·	retrograde	2040 Oct 09 12:05	7°ML31'39	
transit end	2039 Nov 07 10:16	14° M 40'44		evening set	2040 Oct 15 18:35	4°M55'32	
asc. node	2039 Nov 08 00:30	13°M54'10		min. Earth dist.	2040 Oct 19 23:54	0°M24'37	0.66590 AU
morning rise	2039 Nov 12 21:17	8°M46'47			2040 Oct 20 07:53	30° ₹	
direct	2039 Nov 16 10:38	7°M33'51		inferior conj	2040 Oct 21 10:16	28° ≏ 37'46	-1°11'13
morning max el	2039 Nov 23 20:51	11° M 46'57	19°46'17	minimum elong	2040 Oct 21 12:08	28° £ 31'56	1°10'25
greatest brilliancy	2039 Dec 07 05:57	29°M30'32	-0.7m	asc. node	2040 Oct 24 21:33	24° ≏ 39'14	
	2039 Dec 07 13:53	0°⊀		morning rise	2040 Oct 27 06:07	22° ≏ 47'03	
desc. node	2039 Dec 16 07:05	13° ∡ 13'17		direct	2040 Oct 30 09:06	21° ≏ 51'12	
morning set	2039 Dec 19 12:15	18° ∡ 10′26		morning max el	2040 Nov 06 05:17	25° ≏ 39'22	18°52'37
	2039 Dec 27 02:34	0°₹			2040 Nov 09 22:57	0°M	
max. Earth dist.	2039 Dec 31 11:02	6° る 52'29	1.44228 AU	morning set	2040 Nov 27 23:31	27°M11'38	
		—-			2040 Nov 29 18:20	0° ∡ ¹	
superior conj	2040 Jan 05 03:23	14°る22'36		desc. node	2040 Dec 02 04:09	3° ∡ 747'08	
minimum elong	2040 Jan 04 20:20	13° る 54'09	1°49'13	max. Earth dist.	2040 Dec 13 03:33	21° ₹ 00'48	1.45025 AU
avaniri-	2040 Jan 14 14:58	0° ≈					
evening rise	2040 Ica 10 16 20	60 5010 5		G1100 OPT	2040 D 14 10 20		
	2040 Jan 18 16:38	6°≈52'25		superior conj	2040 Dec 14 10:39	23° 🗷 03'08	
asc. node	2040 Jan 18 16:38 2040 Feb 01 21:16 2040 Feb 03 23:49	6°≈52'25 0°¥ 2°¥46'50		superior conj minimum elong	2040 Dec 14 10:39 2040 Dec 14 02:03 2040 Dec 18 20:17	23°×'03'08 22°× 7 29'17 0°る	

	2040 D 20 19:27	170=20000			2042 I 01 01-20	0000	
evening rise	2040 Dec 29 18:27	17°る29'20			2042 Jan 01 01:20	0° ≈	10027102
	2041 Jan 06 11:59	0° ≈	10042105	evening max el	2042 Jan 02 22:05	2°≈03'52	19°27'03
evening max el	2041 Jan 19 14:00	18° ≈ 34'45	18°43'05	asc. node	2042 Jan 07 17:52	5°≈41'56	
asc. node	2041 Jan 20 20:51	19° ≈ 47'52		retrograde	2042 Jan 10 02:48	6° ≈ 12'39	
retrograde	2041 Jan 26 06:14	22°≈18′10		evening set	2042 Jan 13 14:01	5° ≈ 02'17	
evening set	2041 Jan 29 10:27	21° ≈ 20′50			2042 Jan 18 10:25	30°Ŗਰ	
inferior conj	2041 Feb 04 04:00	15° ≈ 42'02		inferior conj	2042 Jan 19 02:32	29° る 07'53	3°10'32
minimum elong	2041 Feb 04 02:18	15° ≈ 47'10	3°33'13	minimum elong	2042 Jan 19 00:05	29° る 15'50	
min. Earth dist.	2041 Feb 06 00:25	13° ≈ 27′10	0.65138 AU	min. Earth dist.	2042 Jan 20 08:03	27° る 31'55	0.66396 AU
morning rise	2041 Feb 09 17:44	9° ≈ 32'13		morning rise	2042 Jan 24 09:55	22° る 55'30	
direct	2041 Feb 16 10:27	6° ≈ 40'13		direct	2042 Jan 30 15:32	20° る 09'37	
desc. node	2041 Feb 28 03:18	12° ≈ 55'18		morning max el	2042 Feb 12 02:07	27° る 32'36	25°56'14
morning max el	2041 Mar 01 16:46	14° ≈ 26′09	27°01'57		2042 Feb 14 09:52	0° ≈	
	2041 Mar 14 09:21	0° ∀		desc. node	2042 Feb 15 00:21	0° ≈ 40′22	
	2041 Apr 01 23:04	0 ° Υ			2042 Mar 08 01:47	0° ∀	
morning set	2041 Apr 06 09:10	8° Y 17'27		morning set	2042 Mar 20 07:39	21°) €06′13	
max. Earth dist.	2041 Apr 10 21:01	17° Ƴ 10'46	1.34059 AU	max. Earth dist.	2042 Mar 24 04:38	28°) €24'41	1.35581 AU
					2042 Mar 25 00:21	$0^{\circ}\mathbf{\Upsilon}$	
superior conj	2041 Apr 14 17:42	25° Y ′08′36	-0°41'57				
minimum elong	2041 Apr 14 19:50	25° Ƴ 19'43	0°41'31	superior conj	2042 Mar 29 12:42	8° Y ′57'27	-1°09'28
	2041 Apr 17 01:04	0°8		minimum elong	2042 Mar 29 16:10	9° Ƴ 14'58	1°08'54
asc. node	2041 Apr 18 20:11	3° 8 48'23		asc. node	2042 Apr 05 17:13	23° Y '42'41	
evening rise	2041 Apr 22 03:15	10° 8 45'03		evening rise	2042 Apr 06 10:11	25° Ƴ 09'39	
	2041 May 02 04:57	$\Pi^{\circ}0$			2042 Apr 08 19:35	0°8	
evening max el	2041 May 12 07:54	13° Ⅲ 26'31	21°36'14	evening max el	2042 Apr 24 13:25	24° 8 35'24	20°15'55
retrograde	2041 May 24 15:38	19° Ⅲ 28'51		retrograde	2042 May 05 05:13	29° 8 45'11	
evening set	2041 May 27 02:48	19° Ⅱ 15′07		evening set	2042 May 07 06:06	29° 8 34'40	
desc. node	2041 May 27 02:31	19° Ⅱ 15'15		desc. node	2042 May 13 23:32	26° 8 57'38	
inferior conj	2041 Jun 05 12:39	15° Ⅱ 13'57	-2°39'28	inferior conj	2042 May 16 08:04	25° 8 36'18	-0°41'15
minimum elong	2041 Jun 05 05:38	15° Ⅱ 23'46		minimum elong	2042 May 16 06:08	25° 8 39'09	
min. Earth dist.	2041 Jun 05 10:23		0.54933 AU	min. Earth dist.	2042 May 17 23:14	24° 8 38'40	0.55181 AU
morning rise	2041 Jun 14 09:20	11° I 18'07	0.0 1900 110	morning rise	2042 May 25 04:44	21° 8 19'07	0.00101110
direct	2041 Jun 17 13:41	10° I 55'57		direct	2042 May 29 01:31	20° 8 46'42	
morning max el	2041 Jun 29 21:49	16° Ⅱ 45'16	21°59'24	morning max el	2042 Jun 11 14:55	27° 8 24'38	23°40'27
morning max or	2041 Jul 10 06:29	0°95	21 3721	morning max or	2042 Jun 14 03:57	0°Ⅱ	25 1027
asc. node	2041 Jul 15 19:26	9° 9 346'45		asc. node	2042 Jul 02 16:29	29° II 20'57	
morning set	2041 Jul 21 01:20	20°9518'30		asc. node	2042 Jul 03 00:11	0°95	
morning set	2041 Jul 25 15:27	0°Ω		morning set	2042 Jul 05 12:51	5° © 14'07	
	2041 341 23 13.27	0 82		morning set	2042 341 03 12.31	3 31407	
superior conj	2041 Jul 28 06:58	5° Ω 35'42	1°39'17	superior conj	2042 Jul 12 13:44	20°521'39	1°27'38
minimum elong	2041 Jul 28 05:17	5°Ω26'51		minimum elong	2042 Jul 12 11:26	20°509'18	1°27'22
max. Earth dist.	2041 Jul 31 19:48	12° Ω 55'25	1.34627 AU	max. Earth dist.	2042 Jul 14 19:44	25°910'37	1.33431 AU
evening rise	2041 Aug 05 09:18	21° Ω 59'38	1.5 1027 110	max. Burtil dist.	2042 Jul 17 02:47	0°Ω	1.55 151 110
evening rise	2041 Aug 09 15:37	0° my		evening rise	2042 Jul 20 01:40	6° Ω 02'00	
desc. node	2041 Aug 23 01:55	22° m 13'44		evening rise	2042 Aug 02 05:59	0°m)	
door. Hode	2041 Aug 28 12:52	0∘ ʊ		desc. node	2042 Aug 09 22:54	11° m) 43'28	
evening max el	2041 Sep 09 10:20	13° ≏ 58'13	26°57'35	evening max el	2042 Aug 22 21:52	27° mg 15'50	27°23'45
retrograde	2041 Sep 22 14:44	21° Ω 14'49	20 07 30	evening man er	2042 Aug 26 00:54	0∘ ⊽	27 23 10
evening set	2041 Sep 29 09:34	18° £ 31'45		retrograde	2042 Sep 05 11:21	4° م 33'39	
min. Earth dist.	2041 Oct 03 08:02	14° Ω 37'19	0.65499 AU	evening set	2042 Sep 12 14:37	1° ≏ 52'38	
inferior conj	2041 Oct 05 06:02 2041 Oct 05 06:25	12° ⊆ 23'48		50t	2042 Sep 12 14:37 2042 Sep 14 19:45	30°RM)	
minimum elong	2041 Oct 05 09:53	12° ⊆ 13'47		min. Earth dist.	2042 Sep 16 07:17	-	0.64054 AU
morning rise	2041 Oct 11 10:55	6° £ 45'24	2 00 20	inferior conj	2042 Sep 18 18:23	25° m 58'35	
asc. node	2041 Oct 11 18:36	6° £ 36'15		minimum elong	2042 Sep 18 18:23 2042 Sep 18 23:13	25° m/ 45' 56	
direct	2041 Oct 11 18:30 2041 Oct 14 05:52	6° £ 02'49		morning rise	2042 Sep 18 23:13 2042 Sep 25 08:53	20° m/36'03	3 03 30
morning max el	2041 Oct 14 03:52 2041 Oct 20 18:52	9° £ 35'32	18°15'16	direct	2042 Sep 27 08:33 2042 Sep 27 22:18	20° m, 03'12	
morning max ci	2041 Nov 03 22:43	9 <u>=</u> 33 32 0°M	16 13 10	asc. node	2042 Sep 27 22:18 2042 Sep 28 15:39	20° mg 05'52	
morning set	2041 Nov 08 15:16	7°M39'36		morning max el	2042 Sep 28 13:39 2042 Oct 04 10:53	20 m/03 32 23°m/28'59	17°55'04
desc. node		24°M29'10		morning max ei	2042 Oct 04 10:53 2042 Oct 09 15:18	0° ⊽	1 / 55 04
uesc. Houe	2041 Nov 19 01:13	24°االہ29°10 0° ح ا		morning set			
	2041 Nov 22 12:31	υ χ.		morning set	2042 Oct 21 10:25	19° £ 27'08 0° I L	
superior conj	2041 Nov 23 12:49	1° ∡ ³36′00	0020147		2042 Oct 27 15:27	U IIIG	
minimum elong	2041 Nov 23 12.49 2041 Nov 23 08:58	1° ₹ ′36'00		superior conj	2042 Nov 03 06:45	10°M58'30	0°17'51
max. Earth dist.	2041 Nov 25 08:38 2041 Nov 25 22:46	5° × ⁷ 24'18	1.45091 AU	minimum elong	2042 Nov 03 08:43	10 IIL3830	0°17'34
evening rise	2041 Nov 23 22:40 2041 Dec 09 21:21	27° ₹ 12'10	1.750/1 AU	desc. node	2042 Nov 05 08:43 2042 Nov 05 22:13	15°M15'20	J 1/JT
evening 1150	2041 Dec 11 16:24	2/ メ ・12 10		max. Earth dist.	2042 Nov 08 17:10	19°M43'05	1.44422 AU
greatest brilliancy	2041 Dec 11 16:24 2041 Dec 21 14:43	0 8 15° る 22'32	-0.7m	max. Earm uist.	2042 Nov 15 06:05	19 IIL43 03 0° ⊼ ¹	1.777424 AU
51 Cutest Diffilancy	2071 1000 21 14.43	15 02232	V. / III		2072 1107 13 00.03	~ ^	

	20.42.37 10.00.14	60 310141			20.42.37 20.20.54	.	
evening rise	2042 Nov 19 08:14	6° ∡ 19'41		_	2043 Nov 30 20:54	0° ろ	
	2042 Dec 05 01:51	0°రె		retrograde	2043 Dec 08 21:58	4° る 25'00	
evening max el	2042 Dec 17 01:05	15° る 33'56	20°26'01	asc. node	2043 Dec 12 11:56	3° る 14'22	
retrograde	2042 Dec 25 00:44	20°る16'14		evening set	2043 Dec 13 04:15	2° る 44'31	
asc. node	2042 Dec 25 14:54	20°る14'17			2043 Dec 15 20:44	30°Ŗ ⋌ ¹	
evening set	2042 Dec 28 20:35	18° る 51'28		inferior conj	2043 Dec 18 12:40	26° ∡ ¹27'54	1°57'01
inferior conj	2043 Jan 03 06:10	12° る 44'16	2°37'44	minimum elong	2043 Dec 18 10:23	26° ₹ ³35'51	1°56'12
minimum elong	2043 Jan 03 03:33		2°36'57	min. Earth dist.	2043 Dec 18 17:02	26° х 12'48	0.67710 AU
min. Earth dist.	2043 Jan 03 22:22	11° る 49'17	0.67241 AU	morning rise	2043 Dec 23 16:21	20°×15'31	0.07710110
	2043 Jan 08 10:20	6° ප 31'02	0.07241710	•	2043 Dec 28 16:45	18°×706'20	
morning rise				direct			22005120
direct	2043 Jan 14 01:50	4° る 00'52		morning max el	2044 Jan 07 20:00	24° ₹ 07'31	23°05'39
morning max el	2043 Jan 25 10:40	10° る 47'45	24°34'09		2044 Jan 13 01:22	0°ಕ	
desc. node	2043 Feb 01 21:25	19° る 22'37		desc. node	2044 Jan 19 18:26	8° る 45'04	
	2043 Feb 09 17:53	0° ≈			2044 Feb 03 04:39	0° ≈	
	2043 Feb 28 18:44	0°) €		morning set	2044 Feb 11 12:48	13° ≈ 27'13	
morning set	2043 Mar 02 10:59	2° ¥ 55'16		max. Earth dist.	2044 Feb 15 21:53	20°≈53'08	1.39630 AU
max. Earth dist.	2043 Mar 06 02:54	9°) €28'30	1.37496 AU		2044 Feb 21 01:40	0°) €	
max. Earth dist.	2015 17141 00 02.51	7 7(2030	1.57 190 110		20111100 21 01.10	٠ , ٨	
avmorior coni	2042 Mar. 12, 20.50	220¥10!26	1924122	aumariar aani	2044 Eab 22 14:16	40 W 26122	1054117
superior conj	2043 Mar 12 20:59	22°) 10′36		superior conj	2044 Feb 23 14:16	4°) (36′23	
minimum elong	2043 Mar 13 01:15	22°) (31'17	1°34'01	minimum elong	2044 Feb 23 18:04	4°) 53′52	1°54'00
	2043 Mar 16 20:35	$0^{\circ}\mathbf{\Upsilon}$		evening rise	2044 Mar 04 03:48	22°) 43'18	
evening rise	2043 Mar 21 11:21	9° Ƴ 12'02			2044 Mar 07 23:49	0 ° Υ	
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° Ƴ 48'53	18°32'33
evening max el	2043 Apr 07 06:33	6° 8 24'21	19°14'10	retrograde	2044 Mar 28 01:31	22° Ƴ 34'59	
retrograde	2043 Apr 16 06:18	10° 8 45'30	-,	evening set	2044 Mar 30 09:52	22°Υ15'00	
•	•	10° 8 32'11		Č		17° Υ 46'25	2022112
evening set	2043 Apr 18 08:51	_	1010111	inferior conj	2044 Apr 06 22:40		
inferior conj	2043 Apr 26 17:05	6° 8 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° 8 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° 8 26'52	0.56335 AU	morning rise	2044 Apr 14 16:26	12° Y 23′01	
desc. node	2043 Apr 30 20:33	3° 8 39'14		desc. node	2044 Apr 16 17:36	11° Ƴ 32'31	
morning rise	2043 May 05 03:48	1° 8 30'59		direct	2044 Apr 20 13:34	10° Y 54'46	
direct	2043 May 10 00:20	0° ප 36'33		morning max el	2044 May 04 22:47	18° Ƴ 33'43	26°42'09
morning max el	2043 May 24 05:25	7° 8 51'57	25°19'54	Ç	2044 May 14 13:09	0°8	
morning max or	2043 Jun 09 13:47	0°II	23 1731		2044 Jun 01 00:42	0°II	
asc. node		19° Ⅱ 11'57			2044 Jun 03 11:01	5° Ⅱ 01'06	
	2043 Jun 19 13:31			morning set			
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					
				superior conj	2044 Jun 10 11:38	20° Ⅱ 14'34	0°51'04
superior conj	2043 Jun 26 23:56	5° 5 17'00	1°11'18	minimum elong	2044 Jun 10 09:38	20° ∏ 03'32	0°50'41
minimum elong	2043 Jun 26 21:33	5° © 03'58	1°10'55	max. Earth dist.	2044 Jun 10 14:28	20° Ⅲ 30′12	1.32233 AU
max. Earth dist.	2043 Jun 28 03:03	7° © 45'05	1.32636 AU		2044 Jun 14 22:45	0°ಅ	
evening rise	2043 Jul 04 02:39	20°529'20		evening rise	2044 Jun 17 09:25	5° © 12'17	
e vennig rise	2043 Jul 08 21:15	0°N		evening rise	2044 Jun 30 13:29	0° Ω	
	2043 Jul 27 10:18	0° m/y		desc. node	2044 Jul 13 16:54	18° Ω 19'17	
							26042127
desc. node	2043 Jul 27 19:53	0°m/31'12		evening max el	2044 Jul 17 09:14	22° Ω 08'44	26°42'27
evening max el	2043 Aug 05 06:19	10° Mp 03'08	27°19'37	retrograde	2044 Jul 31 08:22	29° Ω 22'01	
retrograde	2043 Aug 19 01:33	17° Mp 19'09		evening set	2044 Aug 07 03:42	27° Ω 23'05	
evening set	2043 Aug 26 06:09	14° m 52'17		min. Earth dist.	2044 Aug 10 23:02	24° Ω 45'58	0.60258 AU
min. Earth dist.	2043 Aug 29 20:14	12° Mp 00'40	0.62276 AU	inferior conj	2044 Aug 14 05:41	22° Ω 05'37	-4°39'49
inferior conj	2043 Sep 01 19:17	9° m 15'23	-3°59'15	minimum elong	2044 Aug 14 09:53	21° Ω 56'59	4°39'13
minimum elong	2043 Sep 02 00:39	9° m 02'52	3°57'55	morning rise	2044 Aug 21 18:03	17° Ω 24'08	
morning rise	2043 Sep 08 20:39	4° m/ 12'05		direct	2044 Aug 24 04:12	17° Ω 02'04	
direct	•	-		morning max el	•	20° Ω 40'03	10000150
	2043 Sep 11 07:04	3°Mp45'53			2044 Aug 31 14:27		18 09 39
asc. node	2043 Sep 15 12:43	5° Mp 07′32		asc. node	2044 Sep 01 09:47	21° Ω 28'55	
morning max el	2043 Sep 18 02:28	7° Mp 13'12	17°52'55		2044 Sep 07 15:30	0°Щ	
	2043 Oct 02 20:45	0∘ ⊽		morning set	2044 Sep 16 11:14	15° m 49'50	
morning set	2043 Oct 04 03:00	2° Ω 15'56			2044 Sep 24 01:38	0∘ ⊽	
superior conj	2043 Oct 15 03:13	21° ≏ 39'49	0°56'55	superior conj	2044 Sep 26 01:32	3° ჲ 37'19	1°24'03
minimum elong	2043 Oct 15 07:42	21° ⊆ 58'54	0°56'21	minimum elong	2044 Sep 26 05:32	3° £ 55'18	1°23'40
	2043 Oct 20 02:23	0°M	3 2021	max. Earth dist.	2044 Oct 03 16:34	16° ⊆ 55'42	1.41322 AU
mov Forth 1:-4		3°M38'20	1.43108 AU			16 ≗ 33 42 25° £ 25'11	1.71 <i>322</i> AU
max. Earth dist.	2043 Oct 22 07:38		1.43108 AU	evening rise	2044 Oct 08 19:46		
desc. node	2043 Oct 23 19:13	6°M02'34		desc. node	2044 Oct 09 16:15	26° £ 47'53	
evening rise	2043 Oct 29 18:15	15°M29'59			2044 Oct 11 16:22	0°M	
	2043 Nov 08 06:25	0°⊀			2044 Nov 01 02:35	0°⊀	
evening max el	2043 Nov 29 22:22	29° ₹ 04'14	21°36'51	evening max el	2044 Nov 11 14:42	12° ∡ ³37′08	22°55'05

retrograde	2044 Nov 21 16:52	18° ∡ ³36'30		evening max el	2045 Oct 25 03:56	26° ™ 13'53	24014'55
evening set	2044 Nov 26 11:24	16° ₹ 30'30'		evening max er	2045 Oct 29 11:42	20 IIC13 33 0° √ 1	24 14 33
asc. node	2044 Nov 28 08:59	16 x 39 20 14° x 46'49		retrograde	2045 Nov 05 08:07	2° x ⁷ 46'46	
	2044 Nov 28 08.39 2044 Dec 01 20:11	14 x 40 49	1°10'00	•	2045 Nov 10 16:25	2 x 40 40 0° x 32'47	
inferior conj				evening set			
minimum elong	2044 Dec 01 18:38	10° ₹ 22'28	1°09'22	1-	2045 Nov 11 07:01	30°RM 25°M 10114	
min. Earth dist.	2044 Dec 01 13:43	10° √ 39'26	0.67831 AU	asc. node	2045 Nov 15 06:02	25°M19'14	0.67610 ATT
morning rise	2044 Dec 07 01:45	4° √ 07'38		min. Earth dist.	2045 Nov 15 09:54	25°M06'18	0.67619 AU
direct	2044 Dec 11 11:31	2°×721'10	21020150	inferior conj	2045 Nov 16 02:54	24°M09'05	0°17'55
morning max el	2044 Dec 20 09:30	7° ⋌ ³34'38	21°39'58	minimum elong	2045 Nov 16 02:28	24°M10'33	0°17'44
desc. node	2045 Jan 05 15:29	28° ₹ 36'49		morning rise	2045 Nov 21 12:31	18°M04'52	
	2045 Jan 06 14:20	0°る		direct	2045 Nov 25 08:54	16°M40'16	20020155
morning set	2045 Jan 21 09:25	22° る 35'31		morning max el	2045 Dec 03 06:07	21°M12'10	20°23'55
	2045 Jan 25 23:34	0° ≈			2045 Dec 10 12:57	0° ∡ 7	
max. Earth dist.	2045 Jan 27 20:58	3° ≈ 06'57	1.41720 AU	desc. node	2045 Dec 23 12:32	18° ∡ ′49'21	
				_	2045 Dec 30 20:07	0°る	
superior conj	2045 Feb 04 11:36	16° ≈ 03′22		morning set	2045 Dec 31 08:15	0° ح 46'57	
minimum elong	2045 Feb 04 12:42		2°04'32	max. Earth dist.	2046 Jan 10 04:12	16° る 17'20	1.43474 AU
	2045 Feb 12 06:44	0° ∀					
evening rise	2045 Feb 15 07:59	5°) 35′33		superior conj	2046 Jan 16 08:02	26° る 20'32	
asc. node	2045 Feb 24 08:18	21°) €37'14		minimum elong	2046 Jan 16 04:01	26° る 03'53	2°00'14
	2045 Mar 02 04:45	0 ° Υ			2046 Jan 18 12:42	0° ≈	
evening max el	2045 Mar 03 18:16	1° Y 40'46	18°10'56	evening rise	2046 Jan 28 19:43	17° ≈ 40′09	
retrograde	2045 Mar 10 14:42	5° Ƴ 08'07			2046 Feb 04 22:12	0° ∀	
evening set	2045 Mar 13 04:58	4° Y 39'03		asc. node	2046 Feb 11 05:20	9° 升 55'45	
	2045 Mar 19 20:22	30°₽ . ₩		evening max el	2046 Feb 15 06:25	14° ¥ 50'49	18°08'47
inferior conj	2045 Mar 20 00:56	29°) 49′35	3°20'45	retrograde	2046 Feb 21 18:00	18° ¥ 14'38	
minimum elong	2045 Mar 20 03:42	29°) 43′18	3°20'20	evening set	2046 Feb 24 13:34	17°) 35′11	
min. Earth dist.	2045 Mar 23 08:49	26°) 48′52	0.60273 AU	inferior conj	2046 Mar 02 20:31	12°) €25'06	3°41'20
morning rise	2045 Mar 27 00:18	24°) €03'48		minimum elong	2046 Mar 02 21:17	12°) €23'07	3°41'19
direct	2045 Apr 02 15:10	21°) 58'54		min. Earth dist.	2046 Mar 05 16:55	9° ∺ 28'11	0.62375 AU
desc. node	2045 Apr 03 14:38	22° ∺ 01'32		morning rise	2046 Mar 09 03:48	6° ¥ 25'45	
morning max el	2045 Apr 16 21:56	29°) 49′51	27°34'13	direct	2046 Mar 16 02:12	3° ¥ 52′01	
	2045 Apr 17 02:02	0° Y		desc. node	2046 Mar 21 11:41	5° ¥ 13'30	
	2045 May 08 12:07	0° ႘		morning max el	2046 Mar 30 03:00	11° ¥ 47'25	27°49'41
morning set	2045 May 18 18:17	19° 8 40'22		C	2046 Apr 13 12:35	0° Y	
asc. node	2045 May 23 07:36	29° 8 21'27			2046 Apr 30 20:06	0°8	
	2045 May 23 14:42	0°П		morning set	2046 May 02 20:22	4° 8 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° 8 46'38	1.32592 AU
	•				Ž		
superior conj	2045 May 25 23:06	5° Ⅱ 08'28	0°27'39	superior conj	2046 May 10 08:38	19° 8 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° 8 52'22	0°01'45
evening rise	2045 Jun 01 19:41	20° Ⅲ 03′22		behind sun begin	2046 May 10 03:25	19° 8 24'26	
C	2045 Jun 06 16:20	0°ಅ		behind sun end	2046 May 10 13:42	20° 8 20'20	
	2045 Jun 25 21:27	$0^{\circ}\Omega$		asc. node	2046 May 10 04:39	19° 8 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		8	2046 May 30 16:52	0ಂತಾ	
evening set	2045 Jul 19 02:39	9° Ω 15'19		evening max el	2046 Jun 10 19:46	14° © 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° © 10'11	
inferior conj	2045 Jul 26 22:05	4° Ω 19'20		retrograde	2046 Jun 24 14:58	21° © 06'31	
minimum elong	2045 Jul 26 22:37	4°Ω18'23		evening set	2046 Jun 29 02:36	20° © 21'59	
morning rise	2045 Aug 03 20:58	0°Ω00'18	. 5025	min. Earth dist.	2046 Jul 05 06:29	17° © 21'56	0.56423 AU
morning rise	2045 Aug 03 21:25	30°R.55		inferior conj	2046 Jul 07 18:23	15°5649'22	
direct	2045 Aug 06 09:28	29°5540'23		minimum elong	2046 Jul 07 13:31	15°956'57	4°40'44
direct	2045 Aug 08 19:52	0°Ω		morning rise	2046 Jul 16 03:05	11°5549'33	7 70 77
morning max el	2045 Aug 14 19:35	3° Ω 39'40	18°47'31	direct	2046 Jul 18 19:51	11°930'30	
asc. node	2045 Aug 19 06:50	8° Ω 54'18	10 1/31	morning max el	2046 Jul 28 14:59	16°903'17	19°46'23
morning set	2045 Aug 31 06:25	29° Ω 55'32		asc. node	2046 Aug 06 03:54	27°909'51	17 .025
morning set	2045 Aug 31 07:20	0°M)		asc. nouc	2046 Aug 07 20:08	27 3 09 31	
	2073 11ug 31 07.20	עויי		morning set	2046 Aug 15 09:08	14° Ω 24'05	
superior conj	2045 Sep 08 20:20	16° Mp 35'15	1°30'41	morning set	2070 Aug 13 07.00	17 062403	
	•			aunariar car:	2046 Ana 22 06:14	00 m 10150	1045124
minimum elong max. Earth dist.	2045 Sep	16° Mp 45'55	1°39′33 1.39295 AU	superior conj	2046 Aug 23 06:14	0° Mp 18'50 0° Mp 20'47	1°45'34 1°45'33
max. Eatui uist.	2045 Sep 15 21:15	29° ™ 30'40 0° ₽	1.37473 AU	minimum elong	2046 Aug 23 06:37		1 70 00
ovanina rica	2045 Sep 16 03:53			may Earth 1:-4	2046 Aug 23 02:26	0°M) 11°M-22'24	1 27202 411
evening rise	2045 Sep 19 20:44	6° Ω 25'32		max. Earth dist.	2046 Aug 29 01:50	11° Mp 33'24	1.37283 AU
desc. node	2045 Sep 26 13:17	17° Ω 27'02		evening rise	2046 Sep 01 20:54	18° m 31'13	
	2045 Oct 04 17:35	0° M .			2046 Sep 08 12:25	0∘ ত	

minimum elong	2048 Jul 21 04:34	29° 5 01'07	1°34'48		2049 Jun 12 12:53	п°П	
	2048 Jul 21 15:40	0°Ω		asc. node	2049 Jun 26 19:01	25° Ⅱ 05'47	
max. Earth dist.	2048 Jul 24 05:43	5°Ω26'00	1.34064 AU	morning set	2049 Jun 28 15:12	28° I I56'07	
evening rise	2048 Jul 29 02:02	15° Ω 14'40			2049 Jun 29 03:16	0° ©	
<i>8</i>	2048 Aug 06 00:33	0° m/					
desc. node	2048 Aug 17 04:19	17° m 55'30		superior conj	2049 Jul 05 15:04	14° © 02'35	1°21'14
	2048 Aug 26 05:13	0∘ ⊽		minimum elong	2049 Jul 05 12:40	13°5549'36	1°20'55
evening max el	2048 Sep 01 16:05	7° ჲ 00'05	27°12'02	max. Earth dist.	2049 Jul 07 08:58	17° © 49'07	1.33040 AU
retrograde	2048 Sep 15 01:09	14° £ 18'43		evening rise	2049 Jul 12 22:29	29° © 29'03	
evening set	2048 Sep 22 00:09	11° ≏ 34'58		8	2049 Jul 13 04:35	$0^{\circ}\Omega$	
min. Earth dist.	2048 Sep 25 19:49		0.64925 AU		2049 Jul 30 02:29	0° m)	
inferior conj	2048 Sep 27 23:41	5° ≏ 32'12	-2°34'28	desc. node	2049 Aug 04 01:18	7° m) 09'19	
minimum elong	2048 Sep 28 03:47	5° ≏ 20'49		evening max el	2049 Aug 15 02:45	20° m 07'13	27°26'05
morning rise	2048 Oct 04 08:20	0° ჲ 00'18		retrograde	2049 Aug 28 19:21	27° m) 24'47	
	2048 Oct 04 08:36	30°R, M⊅		evening set	2049 Sep 05 00:02	24° m) 48'24	
asc. node	2048 Oct 05 21:12	29° m 29'22		min. Earth dist.	2049 Sep 08 15:05	21° mp 41'34	0.63327 AU
direct	2048 Oct 07 00:30	29° m 22'27		inferior conj	2049 Sep 11 07:24	19° m 01'03	
	2048 Oct 09 16:43	0ಂ ರ		minimum elong	2049 Sep 11 12:36	18° m) 48'02	
morning max el	2048 Oct 13 12:39	° – 2° ⊆ 51'27	18°04'29	morning rise	2049 Sep 18 02:26	13° Mp 46'04	3 20 30
morning set	2048 Oct 31 10:54	29° £ 51'41	10 012)	direct	2049 Sep 20 14:09	13° Mp 16'28	
morning sec	2048 Oct 31 12:53	0°ML		asc. node	2049 Sep 22 18:15	13° m) 39'28	
desc. node	2048 Nov 13 03:38	20°MJ38'41		morning max el	2049 Sep 27 04:53	16° Mp 42'15	17°51'50
dese. Hode	20401101 15 05.50	20 11030 41		morning max cr	2049 Oct 06 15:25	0° <u>Ω</u>	17 3130
superior conj	2048 Nov 14 11:42	22°M46'50	-0°09'00	morning set	2049 Oct 13 16:06	0 — 12° Ω 08'28	
minimum elong	2048 Nov 14 10:35	22°M42'22	0°08'51	morning set	2049 Oct 24 01:37	0°M	
behind sun begin	2048 Nov 14 01:32	22°M06'16	0 0031		2047 Oct 24 01.57	O IIO	
behind sun end	2048 Nov 14 19:38	23°M18'27		superior conj	2049 Oct 25 16:33	2°M42'13	0°35'46
max. Earth dist.	2048 Nov 18 07:31	28°M50'57	1.44887 AU	minimum elong	2049 Oct 25 10:33 2049 Oct 25 20:03	2°M56'44	
max. Larm dist.	2048 Nov 19 01:03	20 11 0 30 37	1.44007 AU	desc. node	2049 Oct 31 00:39	11°M25'57	0 33 10
evening rise	2048 Nov 30 21:18	18° ₹ 27'19		max. Earth dist.	2049 Nov 01 00:23	13°M01'22	1.43937 AU
evening rise	2048 Dec 08 09:17	18 × 27 19 0°る		evening rise	2049 Nov 10 05:46	27°M31'22	1.43937 AU
greatest brilliancy	2048 Dec 14 10:35	9° ろ 09'36	-0.7m	evening rise	2049 Nov 10 03:40 2049 Nov 11 20:25	27 11 0 31 22 0° √ 1	
evening max el	2048 Dec 26 10:58	9 00930 25°る08'14	19°50'31		2049 Nov 11 20:23 2049 Dec 02 07:52	% 8°0	
asc. node	2049 Jan 01 20:27	29°る23'54	17 3031	evening max el	2049 Dec 02 07:32 2049 Dec 09 11:40	8° 云 38'57	20°54'58
retrograde	2049 Jan 01 20:27 2049 Jan 02 23:14	29° る 30'48		retrograde	2049 Dec 17 20:59	13° る 36'53	20 34 38
evening set	2049 Jan 06 13:48	28° る 14'42		asc. node	2049 Dec 17 20:39 2049 Dec 19 17:29	13° る 30'33	
inferior conj	2049 Jan 12 00:51	22° る 14'33	2°57'41	evening set	2049 Dec 21 21:03	13° さ 17 13	
minimum elong	2049 Jan 11 22:15	22° る 23'09	2°57'03	inferior conj	2049 Dec 27 05:59	5°る54'21	2°21'19
min. Earth dist.	2049 Jan 13 00:34	20° ප් 55'42		minimum elong	2049 Dec 27 03:26	6° ප 03'05	
morning rise	2049 Jan 17 06:29	16°る01'22	0.00001110	min. Earth dist.	2049 Dec 27 17:03		0.67494 AU
direct	2049 Jan 23 06:19	13° る 21'00		morning rise	2050 Jan 01 09:38	29° ₹ 41'17	
morning max el	2049 Feb 04 06:45	20°る30'58	25°22'38		2050 Jan 01 01:30	30°R. ✓	
desc. node	2049 Feb 09 02:49	25° る 51'56	23 22 30	direct	2050 Jan 06 18:52	27°×719'20	
	2049 Feb 12 10:55	0° ≈			2050 Jan 13 08:19	0°る	
	2049 Mar 04 16:17	0°) €		morning max el	2050 Jan 17 15:05	3° る 47'10	23°56'32
morning set	2049 Mar 12 12:35	13°) 36′36		desc. node	2050 Jan 26 23:52	14° る 52'48	23 0002
max. Earth dist.	2049 Mar 16 05:27	20° H 26'23	1.36352 AU	dese. node	2050 Feb 06 17:00	0°≈	
	2049 Mar 21 04:32	0°Υ		morning set	2050 Feb 22 05:45	24°≈54'05	
		•			2050 Feb 25 04:00	0°) €	
superior conj	2049 Mar 22 04:45	1° Y 59'50	-1°20'35	max. Earth dist.	2050 Feb 26 01:00		1.38396 AU
minimum elong	2049 Mar 22 08:40	2° Υ 19'15					
evening rise	2049 Mar 30 08:47	18° Ƴ 31'21		superior conj	2050 Mar 05 07:13	14°) 54'11	-1°43'49
asc. node	2049 Mar 30 19:44	19° Ƴ 26'41		minimum elong	2050 Mar 05 11:30	15°) 14'29	
	2049 Apr 05 05:43	0°8		8	2050 Mar 13 01:52	$_{0}$ $^{\circ}$ Υ	
evening max el	2049 Apr 16 20:09	16° 8 52'20	19°47'17	evening rise	2050 Mar 14 06:36	2° Y 20'58	
retrograde	2049 Apr 26 18:20	21° 8 39'51		asc. node	2050 Mar 17 16:47	8° Y 59'05	
evening set	2049 Apr 28 18:52	21° 8 28'48		evening max el	2050 Mar 30 17:47	28° Y '57'22	18°54'01
inferior conj	2049 May 07 14:01	17° 8 27'17	0°08'40	U	2050 Mar 31 21:30	0°8	
minimum elong	2049 May 07 14:24	17° 8 26'41	0°08'32	retrograde	2050 Apr 08 02:28	3° 8 01'09	
transit middle	2049 May 07 14:24	17° 8 26'41	0°08'32	evening set	2050 Apr 10 07:33	2° 8 45'15	
transit begin	2049 May 07 11:04	17° 8 31'51	-	<i>5 ,</i>	2050 Apr 16 02:13	30°RY	
transit end	2049 May 07 17:45	17° 8 21'30		inferior conj	2050 Apr 18 07:21	28° Y 27'53	1°49'14
desc. node	2049 May 08 01:58	17° 8 08'45		minimum elong	2050 Apr 18 11:02	28° Y 21'17	1°48'05
min. Earth dist.	2049 May 09 20:07	16° 8 03'52	0.55570 AU	min. Earth dist.	2050 Apr 21 12:10	26° Υ 11'27	0.57049 AU
morning rise	2049 May 16 07:33	12° 8 55'58		desc. node	2050 Apr 24 23:01	24°Υ05'08	
direct	2049 May 20 13:57	12° 8 15'34		morning rise	2050 Apr 26 11:25	23° Y 22'28	
morning max el	2049 Jun 03 11:44	19° 8 12'00	24°23'52	direct	2050 May 01 19:10	22° Υ 14'32	
Č		-			-		

morning max el	2050 May 16 02:36	29° Ƴ 41'00	25°57'56	morning max el	2051 Apr 27 22:22	10° Ƴ 36'08	27°08'40
morning max ci	2050 May 16 02:30 2050 May 16 10:24	0° 8	23 37 30	morning max ci	2051 Apr 27 22:22 2051 May 12 22:14	0° 8	27 00 40
	2050 Jun 06 04:18	0°II		morning set	2051 May 28 11:53	28° 8 37'11	
morning set	2050 Jun 13 02:34	13° I I50'18		morning sev	2051 May 29 03:40	0°II	
asc. node	2050 Jun 13 16:03	15° Ⅱ 01'38		asc. node	2051 May 31 13:06	5° Ⅱ 06'38	
					,,		
superior conj	2050 Jun 20 02:06	28° Ⅱ 59'14	1°03'09	superior conj	2051 Jun 04 13:55	13° Ⅱ 55'55	0°41'30
minimum elong	2050 Jun 19 23:49	28° Ⅱ 46'44	1°02'46	minimum elong	2051 Jun 04 12:12	13° ∏ 46′28	0°41'09
	2050 Jun 20 13:10	0 \circ \odot		max. Earth dist.	2051 Jun 04 06:56	13° Ⅱ 17′28	1.32181 AU
max. Earth dist.	2050 Jun 20 18:34	0° ട് 29'39	1.32417 AU	evening rise	2051 Jun 11 10:47	28° Ⅱ 51′25	
evening rise	2050 Jun 27 02:14	14° 5 04'00			2051 Jun 11 23:49	0 \circ \odot	
	2050 Jul 05 05:52	0 $^{\circ}\Omega$			2051 Jun 28 15:38	$0^{\circ}\Omega$	
desc. node	2050 Jul 21 22:20	25° Ω 34'09		desc. node	2051 Jul 08 19:21	12° Ω 49'41	
	2050 Jul 25 18:35	0° m y		evening max el	2051 Jul 10 09:24	14° Ω 24'07	26°16'50
evening max el	2050 Jul 28 09:25	2° m 38'41	27°08'00	retrograde	2051 Jul 24 09:02	21° Ω 35′20	
retrograde	2050 Aug 11 06:22	9° m 52'45		evening set	2051 Jul 30 20:50	19° Ω 51′28	
evening set	2050 Aug 18 08:29	7° Mp 36'31		min. Earth dist.	2051 Aug 03 22:15		0.59381 AU
min. Earth dist.	2050 Aug 21 23:40	4° Mp 52'55	0.61437 AU	inferior conj	2051 Aug 07 05:43	14° Ω 43'15	
inferior conj	2050 Aug 25 02:36	2°m/07'51		minimum elong	2051 Aug 07 08:41	14° Ω 37'31	4°50'55
minimum elong	2050 Aug 25 07:44	1° m/56'28	4°17'21	morning rise	2051 Aug 14 22:39	10°Ω11'32	
	2050 Aug 27 14:51	30°R Ω		direct	2051 Aug 17 09:41	9° £ 50′28	10000105
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° m, 0 < 15.3	
	2050 Sep 10 11:02	0°M)	17057145	morning set	2051 Sep 10 05:23	9° Mp 06'53	
morning max el	2050 Sep 10 19:15	0° Mp 19'38	17°57'45	superior aoni	2051 San 10 00:14	26° m 22'07	1922'00
morning set	2050 Sep 26 16:03 2050 Sep 29 05:31	25° Mp 18'36 0° <u> </u>		superior conj minimum elong	2051 Sep 19 08:14 2051 Sep 19 11:34	-	1°32'00 1°31'43
	2030 Sep 29 03.31	0 ==		minimum clong	2051 Sep 19 11:34 2051 Sep 21 07:58	0° ⊡	1 31 43
superior conj	2050 Oct 07 00:32	13° ≏ 57'10	1°09'54	max. Earth dist.	2051 Sep 26 20:13	ი – 9° ≏ 43'57	1.40476 AU
minimum elong	2050 Oct 07 00:32 2050 Oct 07 05:03	13 ⊆ 37 10 14° ⊆ 16'56	1°09'23	evening rise	2051 Sep 20 20:13 2051 Oct 01 07:51	7 = 4 3 37 17° ≏ 18'02	1.40470 AC
max. Earth dist.	2050 Oct 14 13:05	26° £ 43'46	1.42402 AU	desc. node	2051 Oct 01 07:51 2051 Oct 04 18:42	22° £ 55'30	
man Darur alou.	2050 Oct 16 12:56	0°M	12.02.110	desc. node	2051 Oct 09 06:29	0°M	
desc. node	2050 Oct 17 21:41	2°ML12'41			2051 Oct 30 17:19	0° ⊼ ¹	
evening rise	2050 Oct 20 20:52	6°M57'06		evening max el	2051 Nov 04 21:31	5° х 44′29	23°29'10
<i>y</i>	2050 Nov 05 02:44	0° ∡ 7		retrograde	2051 Nov 15 10:50	11° ₹ 59'03	
evening max el	2050 Nov 22 06:51	22° ∡ 10'42	22°09'30	evening set	2051 Nov 20 11:12	9° ∡ ¹54'21	
retrograde	2050 Dec 01 17:19	27° ∡ ¹47'27		asc. node	2051 Nov 23 11:35	6° х 40′52	
evening set	2050 Dec 06 04:44	25° ₹ 59'49		inferior conj	2051 Nov 25 20:32	3° ∡ ³30′53	0°48'26
asc. node	2050 Dec 06 14:32	25° 渘 ³39′00		minimum elong	2051 Nov 25 19:25	3° ∡ ³34'43	0°47'59
inferior conj	2050 Dec 11 13:09	19° ∡ ′40'31	1°37'46	min. Earth dist.	2051 Nov 25 09:29	4° ₹ 08'42	0.67783 AU
minimum elong	2050 Dec 11 11:07	19° ∡ 747'32	1°36'59		2051 Nov 28 13:04	30°RM	
min. Earth dist.	2050 Dec 11 12:48	19° ∡ 741'44	0.67813 AU	morning rise	2051 Dec 01 03:35	27°M23'34	
morning rise	2050 Dec 16 17:23	13° ∡ ¹29'22		direct	2051 Dec 05 07:25	25°M46'51	
direct	2050 Dec 21 11:32	11° ∡ ¹29'48			2051 Dec 13 01:19	0° ∡ ″	
morning max el	2050 Dec 31 01:46	17° ∡ ¹09'37	22°28'22	morning max el	2051 Dec 13 18:13	0° ∡ ′41′28	21°06'12
	2051 Jan 10 15:14	0° ප		desc. node	2051 Dec 31 17:59	24° ∡ ³30′06	
desc. node	2051 Jan 13 20:56	4° る 28'53			2052 Jan 04 10:23	0° る	
	2051 Jan 30 19:24	0° ≈		morning set	2052 Jan 13 04:48	13° る 28'31	
morning set	2051 Feb 02 19:14	4° ≈ 49'59		max. Earth dist.	2052 Jan 21 00:23		1.42521 AU
max. Earth dist.	2051 Feb 07 21:37	13° ≈ 18'58	1.40548 AU		2052 Jan 23 11:01	0° ≈	
	2051 7 1 15 16 15	260 56152	2000104		2052 1 20 02 50	5 0 5454	200.4151
superior conj	2051 Feb 15 16:45	26°≈56'52		superior conj	2052 Jan 28 03:59	7°≈54'54	
minimum elong	2051 Feb 15 19:43	27°≈10'15	1°59'56	minimum elong	2052 Jan 28 03:08	7°≈51'15	2°04'51
	2051 Feb 17 09:10	0° \ 150 \ (2700€		evening rise	2052 Feb 08 16:08	28°≈10'29	
evening rise	2051 Feb 25 18:20	15° ¥ 37'06			2052 Feb	0° ∺ 16° ∺ 49'10	
asc. node	2051 Mar 04 13:50	28° ₩ 09'13 0° Ƴ		asc. node	2052 Feb 19 10:53	24° H 34'56	10007127
evening max el	2051 Mar 05 15:29 2051 Mar 13 23:35	11° Υ 34'46	18°20'54	evening max el retrograde	2052 Feb 25 10:15 2052 Mar 03 01:52	24° X 34'36 27° X 59'28	18°07'37
retrograde	2051 Mar 13 25:55 2051 Mar 21 05:56	11° γ 34 46 15° γ 11'04	10 20 34	evening set	2052 Mar 05 01:52 2052 Mar 05 18:18	27° H 39'28	
evening set	2051 Mar 21 05:56 2051 Mar 23 16:57	13° γ 11'04 14° γ 47'21		inferior conj	2052 Mar 05 18:18 2052 Mar 12 08:15		3°32'27
inferior conj	2051 Mar 30 22:05	14 γ 47 21 10° Υ 09'34	2°56'40	minimum elong	2052 Mar 12 10:11	22° X 27'43	3°32'15
minimum elong	2051 Mar 30 22:05 2051 Mar 31 01:45	10 γ 09 54 10° γ 01'53	2°55'53	min. Earth dist.	2052 Mar 15 11:57	19°) 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 11:37 2052 Mar 19 00:19	16°) (34'55	5.01100710
morning rise	2051 Apr 07 07:56	4° Υ 35'29		direct	2052 Mar 25 19:24	14°) 16'28	
desc. node	2051 Apr 11 20:04	2° Υ 59'42		desc. node	2052 Mar 28 17:08	14°) (40′02	
direct	2051 Apr 13 13:37	2° Υ 51'43		morning max el	2052 Apr 09 00:28	22°) 10'45	27°45'28
		_		Č		-	

	2052 Apr 15 21:43	$0^{\circ}\mathbf{\Upsilon}$		morning rise	2053 Mar 01 11:33	29° ≈ 11'31	
	2052 May 05 00:01	$_{0\circ}$ 8		direct	2053 Mar 08 10:16	26° ≈ 29'01	
morning set	2052 May 11 17:13	13° 8 09'31		desc. node	2053 Mar 15 14:12	28° ≈ 52'35	
asc. node	2052 May 17 10:09	25° 8 15'33			2053 Mar 17 05:57	0° ∀	
max. Earth dist.	2052 May 17 17:58	25° 8 57'59	1.32325 AU	morning max el	2053 Mar 22 07:30	4° ¥ 25′00	27°44'48
					2053 Apr 10 12:47	0° Υ	
superior conj	2052 May 19 00:45	28° 8 46'04	0°16'56	morning set	2053 Apr 25 16:18	27° Ƴ 19'50	
minimum elong	2052 May 18 23:59	28° 8 41'50	0°16'45	· ·	2053 Apr 26 24:00	0°8	
	2052 May 19 14:16	0°II		max. Earth dist.	2053 Apr 30 23:43		1.32877 AU
evening rise	2052 May 25 21:54	13° I I43'15		man. Bartii dibt.	2003 1 pr 30 23.13	0 01010	1.52077110
evening rise	2052 Jun 03 02:25	0°95		aumorior coni	2052 May 02 09:52	13° 8 23'51	0000140
			24050107	superior conj	2053 May 03 08:53	.T.	
evening max el	2052 Jun 21 02:18	25°523'52	24°58'07	minimum elong	2053 May 03 09:21	13° 8 26'25	0°09'42
desc. node	2052 Jun 24 16:22	28° © 27'45		behind sun begin	2053 May 03 05:09	13° 8 03'47	
	2052 Jun 26 23:09	$0^{\circ}\Omega$		behind sun end	2053 May 03 13:33	13° 8 49'05	
retrograde	2052 Jul 05 01:45	2° Ω 29'35		asc. node	2053 May 04 07:12	15° 8 24'17	
evening set	2052 Jul 10 09:36	1° Ω 24'42		evening rise	2053 May 10 09:43	28° 8 33'12	
	2052 Jul 13 07:37	30° ₹			2053 May 11 02:11	$\Pi^{\circ}0$	
min. Earth dist.	2052 Jul 15 13:48	28°537'41	0.57395 AU		2053 May 28 09:40	0°©	
inferior conj	2052 Jul 18 13:34	26° © 38'09	-4°56'29	evening max el	2053 Jun 02 16:03	5° © 55'58	23°23'58
minimum elong	2052 Jul 18 11:51	26°\$41'02		desc. node	2053 Jun 11 13:23	11° © 53'15	
morning rise	2052 Jul 26 16:47	22° 5 28'29		retrograde	2053 Jun 16 06:05	12°543'21	
direct	2052 Jul 29 06:48	22° © 09'12		evening set	2053 Jun 20 01:56	12° © 11'14	
			10010101	•			0.55010 ATT
morning max el	2052 Aug 07 06:02	26°©20'59	19°10'01	min. Earth dist.	2053 Jun 27 02:06	8°558'29	
	2052 Aug 10 13:36	$0^{\circ}\Omega$		inferior conj	2053 Jun 29 01:28	7° © 48'20	
asc. node	2052 Aug 13 09:23	3° £ 54′27		minimum elong	2053 Jun 28 18:43	7° 9 58'23	4°18'48
morning set	2052 Aug 24 04:04	23° Ω 22'44		morning rise	2053 Jul 07 14:03	3° 9 53'35	
	2052 Aug 27 11:54	0° m/		direct	2053 Jul 10 08:48	3° © 34'37	
				morning max el	2053 Jul 20 20:42	8° 5 26'23	20°17'53
superior conj	2052 Sep 01 10:04	9° m 41'09	1°43'16	asc. node	2053 Jul 31 06:26	22° © 26'55	
minimum elong	2052 Sep 01 11:30	9° m 48'06	1°43'12		2053 Aug 04 09:14	$0^{\circ}\Omega$	
max. Earth dist.	2052 Sep 07 23:45	22° m 01'02	1.38416 AU	morning set	2053 Aug 08 09:08	7° Ω 57'45	
evening rise	2052 Sep 11 18:59	28° m 46'33		8			
0.10000	2052 Sep 12 11:54	0∘ ʊ		superior conj	2053 Aug 16 00:54	23° Ω 39'15	1°45'32
desc. node	2052 Sep 20 15:43	ა — 13° ჲ 30'31		minimum elong	2053 Aug 16 00:37	23° Ω 37'46	
desc. Hode	2052 Scp 20 15:45 2052 Oct 01 16:14	0°M		minimum clong	-	0° m)	1 43 32
			24947140	Danila diat	2053 Aug 19 05:19	-•	1 26470 ATT
evening max el	2052 Oct 17 09:50	19°M22'10	24-47-40	max. Earth dist.	2053 Aug 21 05:28	3° m 53'50	1.36479 AU
retrograde	2052 Oct 29 00:30	26°M07'47		evening rise	2053 Aug 25 03:50	11° m) 16'50	
evening set	2052 Nov 03 14:50	23°M46'52			2053 Sep 05 01:44	0∘ 亚	
min. Earth dist.	2052 Nov 08 04:47		0.67420 AU	desc. node	2053 Sep 07 12:42	3° ≏ 52'27	
inferior conj	2052 Nov 09 02:22	17°M23'30			2053 Sep 26 23:18	0° M	
minimum elong	2052 Nov 09 02:30	17°M23'03	0°05'19	evening max el	2053 Sep 29 21:50	3°M02'00	25°57'41
transit middle	2052 Nov 09 02:30	17°M23'03	0°05'19	retrograde	2053 Oct 12 09:18	10°M07'52	
transit begin	2052 Nov 08 23:54	17°M31'42		evening set	2053 Oct 18 13:46	7°M33'29	
transit end	2052 Nov 09 05:07	17°MJ14'26		min. Earth dist.	2053 Oct 22 20:14	2°M57'09	0.66726 AU
asc. node	2052 Nov 09 08:37	17°ML02'50		inferior conj	2053 Oct 24 04:51	1°M14'46	-1°02'23
morning rise	2052 Nov 14 14:18	11° M 22'17		minimum elong	2053 Oct 24 06:28	1° M 09'38	1°01'41
direct	2052 Nov 18 05:25	10°M06'26		8	2053 Oct 25 04:53	30° RΩ	
morning max el	2052 Nov 25 18:18	14°M24'14	19°55'35	asc. node	2053 Oct 27 05:39	27° ₽ 40'25	
morning max or	2052 Dec 07 18:08	0° ∡ ¹	17 55 55	morning rise	2053 Oct 27 03:35 2053 Oct 29 23:32	25° ₽ 22'23	
11-	2052 Dec 07 18:08 2052 Dec 17 15:01	14° ₹ 149'39		direct		23 = 22 23 24° £ 24'09	
desc. node					2053 Nov 02 03:57		10050124
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° ろ			2053 Nov 10 16:32	0° M ₊	
max. Earth dist.	2053 Jan 02 10:28	9° る 28'17	1.44053 AU	morning set	2053 Dec 01 08:33	0° ∡ ¹26′06	
					2053 Dec 01 01:53	0° ∡ ¹	
superior conj	2053 Jan 07 13:08	17° る 41'48		desc. node	2053 Dec 04 12:01	5° ∡ ′21'37	
minimum elong	2053 Jan 07 06:48	17° る 16'06	1°52'46	max. Earth dist.	2053 Dec 16 02:30	23° ∡ ³33'19	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° ∡ ¹27'57	-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		S	2053 Dec 20 04:30	0°ರ	
evening max el	2053 Feb 07 22:50		18°13'32	evening rise	2054 Jan 02 00:55	20° ට 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 17 07:25 2053 Feb 23 10:00	5° H 14'55	30/3/10	asc. node	2054 Jan 23 04:57	21 ≈14 38 21°≈59'42	10 3/3/
minimum elong	2053 Feb 23 09:58	5° € 15'00		retrograde	2054 Jan 29 01:30	24°≈55'16	
min. Earth dist.	2053 Feb 26 00:17		0.63206 AU	evening set	2054 Feb 01 04:50	23°≈59'39	2025140
	2053 Feb 28 12:07	30°R ≈		inferior conj	2054 Feb 06 23:19	18° ≈ 23'19	3°35'49

retrograde	2055 Dec 27 19:37	22° る 50'05		evening set	2056 Dec 14 21:39	5° る 20'09	
asc. node	2055 Dec 27 23:01	22° る 49'59			2056 Dec 19 14:08	30°Ŗ ⋌ 7	
evening set	2055 Dec 31 14:02	21° る 27'36		inferior conj	2056 Dec 20 06:10	29° ∡ ¹04'45	2°03'37
inferior conj	2056 Jan 05 23:55	15° る 22'03	2°43'14	minimum elong	2056 Dec 20 03:47	29° ∡ 12'58	2°02'48
minimum elong	2056 Jan 05 21:18	15° る 30'56	2°42'30	min. Earth dist.	2056 Dec 20 12:15	28° ∡ ′43'42	0.67665 AU
min. Earth dist.	2056 Jan 06 18:00	14° る 20'56	0.67137 AU	morning rise	2056 Dec 25 09:44	22° ≯ 52′03	
morning rise	2056 Jan 11 04:23	9° る 08'41		direct	2056 Dec 30 12:26	20° ∡ ³39'24	
direct	2056 Jan 16 22:01	6° る 35'45		morning max el	2057 Jan 09 20:08	26° ∡ 47'50	23°18'45
morning max el	2056 Jan 28 11:10	13° る 29'11	24°47'01		2057 Jan 12 19:23	0°る	
desc. node	2056 Feb 04 05:17	21° る 11'20		desc. node	2057 Jan 21 02:19	10° る 28'20	
	2056 Feb 10 20:46	0° ≈			2057 Feb 03 11:46	0° ≈	
	2056 Mar 01 04:13	0° ∀		morning set	2057 Feb 13 19:35	16° ≈ 38′04	
morning set	2056 Mar 04 13:38	5° ∺ 54'10		max. Earth dist.	2057 Feb 17 23:56	23° ≈ 47′06	1.39308 AU
max. Earth dist.	2056 Mar 08 05:20	12° ∺ 29'32	1.37189 AU		2057 Feb 21 12:18	0° ∀	
superior conj	2056 Mar 14 18:41	24°) ₹55'03		superior conj	2057 Feb 25 14:29	7°) €28'13	
minimum elong	2056 Mar 14 22:53	25° ∺ 15'35	1°30'28	minimum elong	2057 Feb 25 18:28	7°) 46′45	1°51'29
	2056 Mar 17 08:38	0 ° Υ		evening rise	2057 Mar 07 00:08	25°) 24'15	
evening rise	2056 Mar 23 06:13	11° Ƴ 48'25			2057 Mar 09 09:37	0 ° Υ	
asc. node	2056 Mar 24 22:20	15° Ƴ 07'42		asc. node	2057 Mar 11 19:23	4° Ƴ 31'14	
	2056 Apr 02 02:01	$_{0\circ}$ 8		evening max el	2057 Mar 23 06:29	21° Y 35'48	18°37'32
evening max el	2056 Apr 09 05:00	9° 8 16'14	19°22'07	retrograde	2057 Mar 31 02:40	25° Y 25′54	
retrograde	2056 Apr 18 10:25	13° 8 43'56		evening set	2057 Apr 02 10:08	25° Y ′07'04	
evening set	2056 Apr 20 12:12	13° 8 31'23		inferior conj	2057 Apr 10 01:44	20° Ƴ 41'37	2°21'58
inferior conj	2056 Apr 28 23:22	9° 8 23'51	0°54'54	minimum elong	2057 Apr 10 05:45	20° Ƴ 33'56	2°20'53
minimum elong	2056 Apr 29 01:36	9° 8 20'11	0°54'07	min. Earth dist.	2057 Apr 13 11:01	18° Ƴ 07'14	0.57848 AU
min. Earth dist.	2056 May 01 17:06	7° 8 36'26	0.56113 AU	morning rise	2057 Apr 17 22:15	15° Y 22'35	
desc. node	2056 May 02 04:29	7° 8 18'32		desc. node	2057 Apr 19 01:31	14° Y 53'21	
morning rise	2056 May 07 12:06	4° 8 37'42		direct	2057 Apr 23 16:08	13° Y 59'40	
direct	2056 May 12 04:50	3° 8 47'19		morning max el	2057 May 08 01:06	21° Y '35'58	26°31'36
morning max el	2056 May 26 08:32	10° 8 58'29	25°05'48	•	2057 May 15 09:18	0°8	
C	2056 Jun 09 19:37	$\Pi^{\circ}0$			2057 Jun 02 12:33	0° I I	
asc. node	2056 Jun 20 21:35	20° Ⅱ 52'34		morning set	2057 Jun 06 04:13	7° Ⅲ 29'03	
morning set	2056 Jun 21 17:30	22° I I37'10		asc. node	2057 Jun 07 18:39	10° Ⅱ 53'04	
C	2056 Jun 25 03:59	0ಂತಾ					
				superior conj	2057 Jun 13 04:28	22° Ⅱ 41'12	0°54'23
superior conj	2056 Jun 28 16:51	7°5643'26	1°14'04	minimum elong	2057 Jun 13 02:22	22° Ⅱ 29'42	0°53'59
minimum elong	2056 Jun 28 14:27	7° © 30'19	1°13'41	max. Earth dist.	2057 Jun 13 10:44	23° Ⅱ 15'39	1.32265 AU
max. Earth dist.	2056 Jun 29 23:42	10°931'26	1.32728 AU		2057 Jun 16 12:35	0°ಅ	
evening rise	2056 Jul 05 20:38	22° © 58'53		evening rise	2057 Jun 20 02:43	7° © 40'15	
	2056 Jul 09 08:42	$0^{\circ}\Omega$		•	2057 Jul 01 19:55	$0^{\circ}\Omega$	
	2056 Jul 27 08:37	0°m		desc. node	2057 Jul 16 00:48	20° Ω 24'04	
desc. node	2056 Jul 29 03:47	2° m 25'18		evening max el	2057 Jul 20 11:01	25° Ω 04'04	26°50'10
evening max el	2056 Aug 07 06:58	12° m 50'58	27°22'19	C	2057 Jul 26 20:14	0° m)	
retrograde	2056 Aug 21 01:42	20° m 07'44		retrograde	2057 Aug 03 09:46	2° m 17'37	
evening set	2056 Aug 28 06:35	17° m) 37'53		evening set	2057 Aug 10 07:11	0° m 13'54	
min. Earth dist.	2056 Aug 31 20:41	14° m 42'43	0.62554 AU	<i>8</i>	2057 Aug 10 16:28	30°R Ω	
inferior conj	2056 Sep 03 18:06	11° m 58'07		min. Earth dist.	2057 Aug 14 01:05		0.60565 AU
minimum elong							
•	2056 Sep 03 23:29	11° m 45'21	3°50'34	inferior coni	2057 Aug 17 06:58	24°&253'24	-4°34'52
morning rise	2056 Sep 03 23:29 2056 Sep 10 17:50	11° Mp 45'21 6° Mp 51'47	3°50'34	inferior conj minimum elong	2057 Aug 17 06:58 2057 Aug 17 11:30	24°Ω53'24 24°Ω43'55	
Č	2056 Sep 10 17:50	6° ™ 51'47	3°50′34	minimum elong	2057 Aug 17 11:30	24° Ω 43'55	
direct	2056 Sep 10 17:50 2056 Sep 13 04:28	6° Mp 51'47 6° Mp 24'51	3°50'34	minimum elong morning rise	2057 Aug 17 11:30 2057 Aug 24 17:42	24° \(43'55 20° \(08'22	
direct asc. node	2056 Sep 10 17:50 2056 Sep 13 04:28 2056 Sep 16 20:47	6° Mp 51'47 6° Mp 24'51 7° Mp 27'40		minimum elong morning rise direct	2057 Aug 17 11:30 2057 Aug 24 17:42 2057 Aug 27 03:42	24° \Omega 43'55 20° \Omega 08'22 19° \Omega 45'49	4°34'08
direct	2056 Sep 10 17:50 2056 Sep 13 04:28 2056 Sep 16 20:47 2056 Sep 19 22:29	6° m 51'47 6° m 24'51 7° m 27'40 9° m 51'35		minimum elong morning rise direct morning max el	2057 Aug 17 11:30 2057 Aug 24 17:42 2057 Aug 27 03:42 2057 Sep 03 11:13	24° N 43'55 20° N 08'22 19° N 45'49 23° N 21'45	
direct asc. node morning max el	2056 Sep 10 17:50 2056 Sep 13 04:28 2056 Sep 16 20:47 2056 Sep 19 22:29 2056 Oct 03 06:11	6° m 51'47 6° m 24'51 7° m 27'40 9° m 51'35 0° •		minimum elong morning rise direct	2057 Aug 17 11:30 2057 Aug 24 17:42 2057 Aug 27 03:42 2057 Sep 03 11:13 2057 Sep 03 17:51	24° N43'55 20° N08'22 19° N45'49 23° N21'45 23° N38'03	4°34'08
direct asc. node	2056 Sep 10 17:50 2056 Sep 13 04:28 2056 Sep 16 20:47 2056 Sep 19 22:29	6° m 51'47 6° m 24'51 7° m 27'40 9° m 51'35		minimum elong morning rise direct morning max el asc. node	2057 Aug 17 11:30 2057 Aug 24 17:42 2057 Aug 27 03:42 2057 Sep 03 11:13 2057 Sep 03 17:51 2057 Sep 08 18:28	24°N43'55 20°N08'22 19°N45'49 23°N21'45 23°N38'03 0°M	4°34'08
direct asc. node morning max el morning set	2056 Sep 10 17:50 2056 Sep 13 04:28 2056 Sep 16 20:47 2056 Sep 19 22:29 2056 Oct 03 06:11 2056 Oct 06 01:08	6° ኪ 51'47 6° ኪ 24'51 7° ኪ 27'40 9° ኪ 51'35 0° Ω 4° Ω 58'13	17°52'04	minimum elong morning rise direct morning max el	2057 Aug 17 11:30 2057 Aug 24 17:42 2057 Aug 27 03:42 2057 Sep 03 11:13 2057 Sep 03 17:51 2057 Sep 08 18:28 2057 Sep 19 07:25	24° N 43'55 20° N 08'22 19° N 45'49 23° N 21'45 23° N 38'03 0° M 18° M 26'43	4°34'08
direct asc. node morning max el morning set superior conj	2056 Sep 10 17:50 2056 Sep 13 04:28 2056 Sep 16 20:47 2056 Sep 19 22:29 2056 Oct 03 06:11 2056 Oct 06 01:08 2056 Oct 17 07:20	6° \mu 51'47 6° \mu 24'51 7° \mu 27'40 9° \mu 51'35 0° \oldsymbol{\Omega} 4° \oldsymbol{\Omega} 58'13	17°52'04 0°51'44	minimum elong morning rise direct morning max el asc. node	2057 Aug 17 11:30 2057 Aug 24 17:42 2057 Aug 27 03:42 2057 Sep 03 11:13 2057 Sep 03 17:51 2057 Sep 08 18:28	24°N43'55 20°N08'22 19°N45'49 23°N21'45 23°N38'03 0°M	4°34'08
direct asc. node morning max el morning set	2056 Sep 10 17:50 2056 Sep 13 04:28 2056 Sep 16 20:47 2056 Sep 19 22:29 2056 Oct 03 06:11 2056 Oct 06 01:08 2056 Oct 17 07:20 2056 Oct 17 11:40	6° \m 51'47 6° \m 24'51 7° \m 27'40 9° \m 51'35 0° \oldsymbol{\Omega} 4° \oldsymbol{\Omega}58'13 24° \oldsymbol{\Omega}39'24 24° \oldsymbol{\Omega}57'43	17°52'04	minimum elong morning rise direct morning max el asc. node morning set	2057 Aug 17 11:30 2057 Aug 24 17:42 2057 Aug 27 03:42 2057 Sep 03 11:13 2057 Sep 03 17:51 2057 Sep 08 18:28 2057 Sep 19 07:25 2057 Sep 25 12:42	24° N 43'55 20° N 08'22 19° N 45'49 23° N 21'45 23° N 38'03 0° M 18° M 26'43 0° <u>D</u>	4°34'08 18°06'09
direct asc. node morning max el morning set superior conj minimum elong	2056 Sep 10 17:50 2056 Sep 13 04:28 2056 Sep 16 20:47 2056 Sep 19 22:29 2056 Oct 03 06:11 2056 Oct 06 01:08 2056 Oct 17 07:20 2056 Oct 17 11:40 2056 Oct 20 11:49	6° \m 51'47 6° \m 24'51 7° \m 27'40 9° \m 51'35 0° \oldsymbol{\Omega} 4° \oldsymbol{\Omega}58'13 24° \oldsymbol{\Omega}57'43 0° \mathbb{M}	17°52'04 0°51'44 0°51'10	minimum elong morning rise direct morning max el asc. node morning set	2057 Aug 17 11:30 2057 Aug 24 17:42 2057 Aug 27 03:42 2057 Sep 03 11:13 2057 Sep 03 17:51 2057 Sep 08 18:28 2057 Sep 19 07:25 2057 Sep 25 12:42 2057 Sep 29 02:07	24° \$\alpha 43'55\\ 20° \alpha 08'22\\ 19° \alpha 45'49\\ 23° \alpha 21'45\\ 23° \alpha 38'03\\ 0° \mathred{m}\\ 18° \mathred{m} 26'43\\ 0° \oldsymbol{\Omega}\\ 6° \oldsymbol{\Omega} 26'30	4°34'08 18°06'09
direct asc. node morning max el morning set superior conj minimum elong max. Earth dist.	2056 Sep 10 17:50 2056 Sep 13 04:28 2056 Sep 16 20:47 2056 Sep 19 22:29 2056 Oct 03 06:11 2056 Oct 06 01:08 2056 Oct 17 07:20 2056 Oct 17 11:40 2056 Oct 20 11:49 2056 Oct 24 07:21	6° ነ 51'47 6° ነ 24'51 7° ነ 27'40 9° ነ 51'35 0° Ω 4° Ω 58'13 24° Ω 39'24 24° Ω 57'43 0° ነ ቢ 6° ነ 15'25	17°52'04 0°51'44	minimum elong morning rise direct morning max el asc. node morning set superior conj minimum elong	2057 Aug 17 11:30 2057 Aug 24 17:42 2057 Aug 27 03:42 2057 Sep 03 11:13 2057 Sep 03 17:51 2057 Sep 08 18:28 2057 Sep 19 07:25 2057 Sep 25 12:42 2057 Sep 29 02:07 2057 Sep 29 06:18	24° \$\alpha 43'55 20° \alpha 08'22 19° \alpha 45'49 23° \alpha 21'45 23° \alpha 38'03 0° \text{ m} 18° \text{ m} 26'43 0° \text{ a} 6° \text{	4°34'08 18°06'09 1°20'42 1°20'15
direct asc. node morning max el morning set superior conj minimum elong max. Earth dist. desc. node	2056 Sep 10 17:50 2056 Sep 13 04:28 2056 Sep 16 20:47 2056 Sep 19 22:29 2056 Oct 03 06:11 2056 Oct 06 01:08 2056 Oct 17 07:20 2056 Oct 17 11:40 2056 Oct 20 11:49 2056 Oct 24 07:21 2056 Oct 25 03:05	6° ነ 51'47 6° ነ 24'51 7° ነ 27'40 9° ነ 51'35 0° Ω 4° Ω 58'13 24° Ω 39'24 24° Ω 57'43 0° ነ 6° ነ 15'25 7° ነ 35'10	17°52'04 0°51'44 0°51'10	minimum elong morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist.	2057 Aug 17 11:30 2057 Aug 24 17:42 2057 Aug 27 03:42 2057 Sep 03 11:13 2057 Sep 03 17:51 2057 Sep 08 18:28 2057 Sep 19 07:25 2057 Sep 25 12:42 2057 Sep 29 02:07 2057 Sep 29 06:18 2057 Oct 06 17:14	24° \(A43'55\) 20° \(\Omega 08'22\) 19° \(Omega 45'49\) 23° \(Omega 21'45\) 23° \(Omega 38'03\) 0° \(Omega 18'') 18° \(Omega 26'30\) 6° \(Omega 26'30\) 6° \(Omega 45'12\) 19° \(Omega 39'36\)	4°34'08 18°06'09
direct asc. node morning max el morning set superior conj minimum elong max. Earth dist.	2056 Sep 10 17:50 2056 Sep 13 04:28 2056 Sep 16 20:47 2056 Sep 19 22:29 2056 Oct 03 06:11 2056 Oct 06 01:08 2056 Oct 17 07:20 2056 Oct 17 11:40 2056 Oct 20 11:49 2056 Oct 24 07:21 2056 Oct 25 03:05 2056 Nov 01 04:32	6° \$\mathbf{n} 51'47 6° \$\mathbf{n} 24'51 7° \$\mathbf{n} 27'40 9° \$\mathbf{n} 51'35 0° \$\mathbf{n}\$ 4° \$\mathbf{n} 58'13 24° \$\mathbf{n} 39'24 24° \$\mathbf{n} 57'43 0° \$\mathbf{m}\$ 6° \$\mathbf{m} 15'25 7° \$\mathbf{m} 35'10 18° \$\mathbf{m} 45'58	17°52'04 0°51'44 0°51'10	minimum elong morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise	2057 Aug 17 11:30 2057 Aug 24 17:42 2057 Aug 27 03:42 2057 Sep 03 11:13 2057 Sep 03 17:51 2057 Sep 08 18:28 2057 Sep 19 07:25 2057 Sep 25 12:42 2057 Sep 29 02:07 2057 Sep 29 06:18 2057 Oct 06 17:14 2057 Oct 12 03:06	24° \(A43'55\) 20° \(\Omega 08'22\) 19° \(Omega 45'49\) 23° \(Omega 21'45\) 23° \(Omega 38'03\) 0° \(Omega 18\) 18° \(Omega 26'30\) 6° \(Omega 45'12\) 19° \(Omega 39'36\) 28° \(Omega 33'10\)	4°34'08 18°06'09 1°20'42 1°20'15
direct asc. node morning max el morning set superior conj minimum elong max. Earth dist. desc. node	2056 Sep 10 17:50 2056 Sep 13 04:28 2056 Sep 16 20:47 2056 Sep 19 22:29 2056 Oct 03 06:11 2056 Oct 06 01:08 2056 Oct 17 07:20 2056 Oct 17 11:40 2056 Oct 20 11:49 2056 Oct 24 07:21 2056 Oct 25 03:05 2056 Nov 01 04:32 2056 Nov 08 12:49	6° \$\mathbf{n} 51'47 6° \$\mathbf{n} 24'51 7° \$\mathbf{n} 27'40 9° \$\mathbf{n} 51'35 0° \$\mathbf{n} 4" \mathbf{n} 58'13 24° \$\mathbf{n} 39'24 24° \$\mathbf{n} 57'43 0° \$\mathbf{m} 4" \mathbf{n} 35'10 18° \$\mathbf{m} 45'58 0° \$\nall 7"	17°52'04 0°51'44 0°51'10	minimum elong morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist.	2057 Aug 17 11:30 2057 Aug 24 17:42 2057 Aug 27 03:42 2057 Sep 03 11:13 2057 Sep 03 17:51 2057 Sep 08 18:28 2057 Sep 19 07:25 2057 Sep 25 12:42 2057 Sep 29 02:07 2057 Sep 29 06:18 2057 Oct 06 17:14 2057 Oct 12 03:06 2057 Oct 12 00:07	24° \(A43'55\) 20° \(\Omega 08'22\) 19° \(Omega 45'49\) 23° \(Omega 21'45\) 23° \(Omega 38'03\) 0° \(Omega 18\) 6° \(\Omega 26'30\) 6° \(\Omega 45'12\) 19° \(\Omega 33'10\) 28° \(\Omega 21'12\)	4°34'08 18°06'09 1°20'42 1°20'15
direct asc. node morning max el morning set superior conj minimum elong max. Earth dist. desc. node evening rise	2056 Sep 10 17:50 2056 Sep 13 04:28 2056 Sep 16 20:47 2056 Sep 19 22:29 2056 Oct 03 06:11 2056 Oct 06 01:08 2056 Oct 17 07:20 2056 Oct 17 11:40 2056 Oct 20 11:49 2056 Oct 24 07:21 2056 Oct 25 03:05 2056 Nov 01 04:32 2056 Nov 08 12:49 2056 Nov 30 06:37	6° \mu 51'47 6° \mu 24'51 7° \mu 27'40 9° \mu 51'35 0° \omega 4° \Omega 58'13 24° \Omega 57'43 0° \mu 6° \mu 15'25 7° \mu 35'10 18° \mu 45'58 0° \ne% 0° \ne%	17°52'04 0°51'44 0°51'10 1.43338 AU	minimum elong morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise	2057 Aug 17 11:30 2057 Aug 24 17:42 2057 Aug 27 03:42 2057 Sep 03 11:13 2057 Sep 03 17:51 2057 Sep 08 18:28 2057 Sep 19 07:25 2057 Sep 25 12:42 2057 Sep 29 06:18 2057 Oct 06 17:14 2057 Oct 12 03:06 2057 Oct 12 00:07 2057 Oct 13 00:45	24° A43'55 20° A08'22 19° A45'49 23° A21'45 23° A38'03 0° M 18° M26'43 0° • 6° • 6° • 6° • 126'30 6° • 129° • 139'36 28° • 112 0° M	4°34'08 18°06'09 1°20'42 1°20'15
direct asc. node morning max el morning set superior conj minimum elong max. Earth dist. desc. node evening rise evening max el	2056 Sep 10 17:50 2056 Sep 13 04:28 2056 Sep 16 20:47 2056 Sep 19 22:29 2056 Oct 03 06:11 2056 Oct 06 01:08 2056 Oct 17 07:20 2056 Oct 17 11:40 2056 Oct 20 11:49 2056 Oct 24 07:21 2056 Oct 25 03:05 2056 Nov 01 04:32 2056 Nov 08 12:49 2056 Nov 30 06:37 2056 Dec 01 21:11	6° \mu 51'47 6° \mu 24'51 7° \mu 27'40 9° \mu 51'35 0° \omega 4° \omega 58'13 24° \omega 57'43 0° \mu 6° \mu 15'25 7° \mu 35'10 18° \mu 45'58 0° \ne% 0° \omega 1° \omega 43'09	17°52'04 0°51'44 0°51'10 1.43338 AU	minimum elong morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise desc. node	2057 Aug 17 11:30 2057 Aug 24 17:42 2057 Aug 27 03:42 2057 Sep 03 11:13 2057 Sep 03 17:51 2057 Sep 08 18:28 2057 Sep 19 07:25 2057 Sep 25 12:42 2057 Sep 29 02:07 2057 Sep 29 06:18 2057 Oct 06 17:14 2057 Oct 12 03:06 2057 Oct 12 00:07 2057 Oct 13 00:45 2057 Nov 02 04:12	24° \$\alpha 43'55 20° \$\alpha 08'22 19° \$\alpha 45'49 23° \$\alpha 21'45 23° \$\alpha 38'03 0° \$\mathref{m}\$ 18° \$\mathref{m}\$ 26'43 0° \$\oldsymbol{\alpha}\$ 6° \$\oldsymbol{\alpha} 26'30 6° \$\oldsymbol{\alpha} 45'12 19° \$\oldsymbol{\alpha} 39'36 28° \$\oldsymbol{\alpha} 31'10 28° \$\oldsymbol{\alpha} 21'12 0° \$\mathref{m}\$. 0° \$\nalpha\$	4°34'08 18°06'09 1°20'42 1°20'15 1.41614 AU
direct asc. node morning max el morning set superior conj minimum elong max. Earth dist. desc. node evening rise	2056 Sep 10 17:50 2056 Sep 13 04:28 2056 Sep 16 20:47 2056 Sep 19 22:29 2056 Oct 03 06:11 2056 Oct 06 01:08 2056 Oct 17 07:20 2056 Oct 17 11:40 2056 Oct 20 11:49 2056 Oct 24 07:21 2056 Oct 25 03:05 2056 Nov 01 04:32 2056 Nov 08 12:49 2056 Nov 30 06:37	6° \mu 51'47 6° \mu 24'51 7° \mu 27'40 9° \mu 51'35 0° \omega 4° \Omega 58'13 24° \Omega 57'43 0° \mu 6° \mu 15'25 7° \mu 35'10 18° \mu 45'58 0° \ne% 0° \ne%	17°52'04 0°51'44 0°51'10 1.43338 AU	minimum elong morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise	2057 Aug 17 11:30 2057 Aug 24 17:42 2057 Aug 27 03:42 2057 Sep 03 11:13 2057 Sep 03 17:51 2057 Sep 08 18:28 2057 Sep 19 07:25 2057 Sep 25 12:42 2057 Sep 29 06:18 2057 Oct 06 17:14 2057 Oct 12 03:06 2057 Oct 12 00:07 2057 Oct 13 00:45	24° A43'55 20° A08'22 19° A45'49 23° A21'45 23° A38'03 0° M 18° M26'43 0° • 6° • 6° • 6° • 126'30 6° • 129° • 139'36 28° • 112 0° M	4°34'08 18°06'09 1°20'42 1°20'15 1.41614 AU

	2057 N 20 04-50	100.71452			2050 N 12 10-26	20.700141	
evening set	2057 Nov 29 04:59	19° √ 14'52		evening set	2058 Nov 13 10:26	3° ₹ 08'41	
asc. node	2057 Nov 30 17:06	17° ∡ ¹48'50		_	2058 Nov 16 09:27	30°RM	
inferior conj	2057 Dec 04 13:39	12° ≯ 53'21	1°17'28	asc. node	2058 Nov 17 14:07	28°M27'35	
minimum elong	2057 Dec 04 11:58	12° ₹ 59'11	1°16'49	min. Earth dist.	2058 Nov 18 05:08	27°M37'15	0.67677 AU
min. Earth dist.	2057 Dec 04 08:47	13° √ 10′12	0.67843 AU	inferior conj	2058 Nov 18 20:35	26°M45′00	0°26'07
morning rise	2057 Dec 09 18:48	6° ∡ ¹43'19		minimum elong	2058 Nov 18 19:58	26° ™ 47'07	0°25'51
direct	2057 Dec 14 06:45	4° ⋌ ¹53'23		morning rise	2058 Nov 24 05:28	20°M39'59	
morning max el	2057 Dec 23 08:44	10° ∡ 13′21	21°52'09	direct	2058 Nov 28 03:47	19°M12'16	
desc. node	2058 Jan 07 23:22	0° ರ 16'11		morning max el	2058 Dec 06 04:14	23°M49'32	20°34'27
	2058 Jan 07 18:52	0°రె			2058 Dec 11 11:49	0° ∡ ¹	
morning set	2058 Jan 24 20:26	25° る 57'48		desc. node	2058 Dec 25 20:25	20° ∡ ¹26′10	
C	2058 Jan 27 08:26	0° ≈			2059 Jan 01 03:29	8°0	
max. Earth dist.	2058 Jan 30 22:10		1.41429 AU	morning set	2059 Jan 03 21:28	4° る 14'48	
man zam usv.	2000 0411 30 22.10	0.00200	1.11.127.110	max. Earth dist.	2059 Jan 13 04:32	18° る 57'04	1.43246 AU
superior conj	2058 Feb 07 15:08	19° ≈ 04'38	2003148	max. Earth dist.	2037 Juli 13 04.32	10 037 04	1.43240710
minimum elong	2058 Feb 07 16:48	19°≈11'59		superior conj	2059 Jan 19 15:33	29° ප 33'07	2002/10
minimum ciong		0° ∺	2 03 40		2059 Jan 19 13:33 2059 Jan 19 12:23	29 る 33 07	
	2058 Feb 13 17:12			minimum elong			2 02 04
evening rise	2058 Feb 18 06:22	8° ∺ 22'30			2059 Jan 19 21:59	0° ≈	
asc. node	2058 Feb 26 16:25	23°) (29'12		evening rise	2059 Jan 31 20:54	20°≈35'25	
	2058 Mar 02 21:58	0° Υ			2059 Feb 06 05:34	0° ∀	
evening max el	2058 Mar 06 14:46	4° Y 23′56	18°12'56	asc. node	2059 Feb 13 13:26	11° ¥ 53'50	
retrograde	2058 Mar 13 13:19	7° Ƴ 53'00		evening max el	2059 Feb 18 02:38	17°) €31'58	18°07'50
evening set	2058 Mar 16 02:50	7° Y 25′18		retrograde	2059 Feb 24 14:56	20° 升 55'33	
inferior conj	2058 Mar 23 01:03	2° Ƴ 38'53	3°15'20	evening set	2059 Feb 27 09:42	20°) (17′43	
minimum elong	2058 Mar 23 04:05	2° Y 32'07	3°14'50	inferior conj	2059 Mar 05 18:20	15°) (10′27	3°39'42
	2058 Mar 26 00:28	30°R) €		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° H 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° X 56'33		desc. node	2059 Mar 23 19:36	7°) (45'41	
desc. Hode	-	24 γ (3033					27°49'50
	2058 Apr 16 22:17		27020150	morning max el	2059 Apr 02 03:37	14°) (37'39	27-49 30
morning max el	2058 Apr 19 23:14	2° Y 45'41	27°28'50		2059 Apr 14 14:29	0° Υ	
	2058 May 09 19:46	0° 8			2059 May 02 07:46	0°8	
morning set	2058 May 21 12:02	22° 8 10'14		morning set	2059 May 05 15:00	6° 8 34'19	
	2058 May 25 04:34	Π $\circ 0$		max. Earth dist.	2059 May 11 08:20	18° 8 36'08	1.32509 AU
asc. node	2058 May 25 15:41	1° Ⅱ 00′13		asc. node	2059 May 12 12:44	21° 8 09'49	
max. Earth dist.	2058 May 27 22:54	6° Ⅱ 01'40	1.32191 AU				
				superior conj	2059 May 13 01:56	22° 8 21'38	0°05'50
superior conj	2058 May 28 16:03	7° Ⅱ 35'49	0°31'24	minimum elong	2059 May 13 01:40	22° 8 20'07	0°05'46
minimum elong	2058 May 28 14:41	7° Ⅱ 28'21	0°31'07	behind sun begin	2059 May 12 20:50	21° 8 53'53	
evening rise	2058 Jun 04 12:35	22° II 30'32		behind sun end	2059 May 13 06:29	22° 8 46'23	
* · · · · · · · · · · · · · · · · · · ·	2058 Jun 08 03:39	0ಂಣ 			2059 May 16 14:00	0°II	
	2058 Jun 26 10:44	$0^{\circ}\Omega$		evening rise	2059 May 20 00:14	7° Ⅱ 22'50	
evening max el	2058 Jul	6° Ω 30'22	25°46'19	evening rise	2059 May 31 20:33	0°95	
desc. node	2058 Jul 02 08:07 2058 Jul 02 21:51	7° Ω 02'34	23 40 19	avanina may al	2059 Jun 13 23:00	17° © 15'32	24910106
				evening max el			24 1900
retrograde	2058 Jul 16 08:23	13° £ 39′24		desc. node	2059 Jun 19 18:50	21°549'13	
evening set	2058 Jul 22 09:42	12° Ω 12'19	0.50510.477	retrograde	2059 Jun 27 19:32	24°515'01	
min. Earth dist.	2058 Jul 26 20:26		0.58510 AU	evening set	2059 Jul 02 12:41	23°S25'26	
inferior conj	2058 Jul 30 02:16	7° Ω 13'13		min. Earth dist.	2059 Jul 08 09:52	20° © 29'17	0.56660 AU
minimum elong	2058 Jul 30 03:31	7° Ω 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° Ω 50'51		minimum elong	2059 Jul 10 21:23	18° © 55'41	4°46'26
direct	2058 Aug 09 11:43	2° Ω 30'38		morning rise	2059 Jul 19 08:46	14° © 47'15	
morning max el	2058 Aug 17 17:31	6° Ω 25'50	18°40'31	direct	2059 Jul 22 00:50	14° © 28'10	
asc. node	2058 Aug 21 14:53	10° Ω 54'32		morning max el	2059 Jul 31 14:29	18° © 54'52	19°36'16
	2058 Sep 01 18:34	0° m		asc. node	2059 Aug 08 11:57	29° © 02'58	
morning set	2058 Sep 03 01:10	2° m 28'15			2059 Aug 09 02:00	$0^{\circ}\Omega$	
8		•		morning set	2059 Aug 18 02:54	16° Ω 53'27	
superior conj	2058 Sep 11 18:11	19° m 16'16	1°37'59		2059 Aug 24 15:05	0°m	
minimum elong	2058 Sep 11 18:11 2058 Sep 11 20:43	19° Mp 28'14	1°37'48		2007 rug 27 10.00	עויי	
minimum elong	-		1 3/40	superior coni	2050 Aug 26 02:06	20 m 52120	10/5/12
	2058 Sep 17 14:38	ე∘ ⊽	1 20/00 411	superior conj	2059 Aug 26 02:06	2° Mp 53'38	
max. Earth dist.	2058 Sep 18 22:37	2° £ 21'39	1.39608 AU	minimum elong	2059 Aug 26 02:45	2° m 56'52	
evening rise	2058 Sep 23 00:23	9° £ 23'09		max. Earth dist.	2059 Sep 01 02:44	14° m 27'14	1.37572 AU
desc. node	2058 Sep 28 21:09	19° ≏ 01'28		evening rise	2059 Sep 04 21:13	21°Mp 18'59	
		0° M ₊			2059 Sep 09 21:36	0∘ ⊽	
	2058 Oct 05 23:26				*		
evening max el	2058 Oct 05 23:26 2058 Oct 28 03:53	28°M52'13	24°03'07	desc. node	2059 Sep 15 18:09	9° ≏ 31'41	
evening max el			24°03'07	desc. node	*		
evening max el retrograde	2058 Oct 28 03:53	28°M52'13	24°03'07	desc. node evening max el	2059 Sep 15 18:09	9° ≏ 31'41	25°18'51

retrograde	2059 Oct 22 15:43	19° M 26'12			2060 Sep 01 18:38	0∘ ত	
evening set	2059 Oct 28 12:18	16°M58'54		evening max el	2060 Sep 01 18:38 2060 Sep 22 03:51	0 = 26° £ 10'05	26°22'51
min. Earth dist.	2059 Nov 01 22:57	12°M02'14	0.67174 AU	evening max er	2060 Sep 26 15:12	0°M	20 22 31
inferior conj	2059 Nov 01 22:37 2059 Nov 03 01:12	10°MJ37'08		retrograde	2060 Oct 04 22:27	3°M21'52	
minimum elong	2059 Nov 03 01:57	10°M34'42		evening set	2060 Oct 04 22:27 2060 Oct 11 08:42	0°M42'49	
asc. node	2059 Nov 04 11:09	8°M48'50	0 20 30	evening set	2060 Oct 11 08:42 2060 Oct 12 04:03	30°R Ω	
morning rise	2059 Nov 04 11:09 2059 Nov 08 15:49	4°M39'35		min. Earth dist.	2060 Oct 15 11:59	•	0.66328 AU
direct	2059 Nov 12 02:08	3°MJ31'41		inferior conj	2060 Oct 17 01:40	24° £ 27′20	
morning max el	2059 Nov 19 07:38	7°MJ36'27	19°29'50	minimum elong	2060 Oct 17 03:59	24° £ 20'16	
greatest brilliancy	2059 Dec 02 17:05	25°MJ32'13		asc. node	2060 Oct 21 08:12	19° £ 50'06	1 2011
greatest offinaley	2059 Dec 05 15:50	0°×7	0.7111	morning rise	2060 Oct 22 23:47	18° ⊆ 39'56	
desc. node	2059 Dec 12 17:26	10° × 751'38		direct	2060 Oct 26 00:17	17° Ω 48'13	
morning set	2059 Dec 13 19:32	12° × 32'34		morning max el	2060 Nov 01 17:49	21° £ 31'07	18°40'35
	2059 Dec 24 24:00	0°ਰ			2060 Nov 08 11:06	0°M	
max. Earth dist.	2059 Dec 26 17:57		1.44523 AU	morning set	2060 Nov 22 14:05	21°M56'42	
					2060 Nov 27 16:08	0° ⊼	
superior conj	2059 Dec 30 13:39	8° ප 50'36	-1°42'22	desc. node	2060 Nov 28 14:27	1° х 28′05	
minimum elong	2059 Dec 30 05:32	8° ਰ 18'10					
g	2060 Jan 12 11:58	0°≈		superior conj	2060 Dec 08 17:20	17° ∡ °23′03	-1°04'23
evening rise	2060 Jan 13 15:21	1°≈54'28		minimum elong	2060 Dec 08 09:32	16° ₹ 52'24	1°03'27
asc. node	2060 Jan 31 10:28	29° ≈ 34'28		max. Earth dist.	2060 Dec 08 11:31	17° ₹ 00'13	1.45117 AU
	2060 Jan 31 19:33	0° ∀			2060 Dec 16 17:36	0°る	
evening max el	2060 Feb 01 15:07	0°) 51'43	18°21'40	evening rise	2060 Dec 24 10:39	12° る 15'51	
retrograde	2060 Feb 08 02:47	4°) €22'59	10 21 10	greatest brilliancy	2061 Jan 01 06:35	24° ♂ 47'11	-0.8m
evening set	2060 Feb 11 02:44	3°) (34'11		<i>g </i>	2061 Jan 04 14:06	0°≈	******
	2060 Feb 15 09:08	30°R≈		evening max el	2061 Jan 15 01:46	14° ≈ 18'17	18°53'35
inferior conj	2060 Feb 17 01:28	28°≈07'45	3°42'05	asc. node	2061 Jan 17 07:30	16° ≈ 18'47	
minimum elong	2060 Feb 17 00:44	28°≈09'51	3°42'02	retrograde	2061 Jan 21 20:54	18° ≈ 08'09	
min. Earth dist.	2060 Feb 19 09:03	25° ≈ 29'29	0.63975 AU	evening set	2061 Jan 25 02:50	17°≈07'25	
morning rise	2060 Feb 22 22:02	22° ≈ 01'17		inferior conj	2061 Jan 30 18:44	11° ≈ 23'56	3°28'18
direct	2060 Feb 29 19:25	19°≈13'22		minimum elong	2061 Jan 30 16:46	11° ≈ 30'01	3°28'00
desc. node	2060 Mar 09 16:38	22°≈52'33		min. Earth dist.	2061 Feb 01 10:53	9° ≈ 19'15	0.65524 AU
morning max el	2060 Mar 14 12:12	27°≈07'15	27°33'54	morning rise	2061 Feb 05 06:21	5°≈12'58	***************************************
. 8	2060 Mar 17 05:29	0° ∀		direct	2061 Feb 11 20:18	2° ≈ 21'28	
	2060 Apr 07 06:05	0° Υ		desc. node	2061 Feb 24 13:40	9°≈42'05	
morning set	2060 Apr 18 10:34	20° Υ 32'35		morning max el	2061 Feb 24 22:06	10° ≈ 03'07	26°46'00
	2060 Apr 23 02:14	0°8			2061 Mar 12 16:16	0° ∀	
max. Earth dist.	2060 Apr 23 10:55	0° 8 45'16	1.33245 AU		2061 Mar 30 17:27	0°Υ	
man. Darvir alov.	2000 Hpr 25 10.50	0 0 .5 10	1.552 10 110	morning set	2061 Apr 01 19:28	3°Υ55'21	
superior conj	2060 Apr 26 08:17	6° 8 51'56	-0°21'34	max. Earth dist.	2061 Apr 06 02:58	12° Υ 20'41	1.34434 AU
minimum elong	2060 Apr 26 09:21	6° 8 57'39					
asc. node	2060 Apr 28 09:46	11° 8 17'11		superior conj	2061 Apr 10 08:59	21° Y '00'54	-0°49'35
evening rise	2060 May 03 11:47	22° 8 10'00		minimum elong	2061 Apr 10 11:30	21°Υ13'56	
	2060 May 07 07:10	0°II			2061 Apr 14 15:53	0°8	
evening max el	2060 May 25 13:12	27° I I43'27	22°42'54	asc. node	2061 Apr 15 06:48	1° 8 18'34	
	2060 May 28 03:05	0°ಅ		evening rise	2061 Apr 17 21:25	6° 8 46'16	
desc. node	2060 Jun 05 15:51	4°907'40		8	2061 Apr 30 13:31	0°Щ	
retrograde	2060 Jun 07 18:31	4°9517'52		evening max el	2061 May 07 10:38	8° Ⅱ 27'24	21°12'20
evening set	2060 Jun 11 00:18	3°954'46		retrograde	2061 May 19 08:27	14° Ⅱ 16′09	
min. Earth dist.	2060 Jun 18 21:22	0°927'30	0.55353 AU	evening set	2061 May 21 14:49	14° Ⅱ 04'16	
	2060 Jun 19 16:37	30° Ŗ Ⅱ		desc. node	2061 May 23 12:53	13° Ⅱ 36'45	
inferior conj	2060 Jun 20 05:50	29° Ⅱ 41'03	-3°49'51	inferior conj	2061 May 30 23:57	10° Ⅱ 05′26	-2°08'29
minimum elong	2060 Jun 19 22:00	29° Ⅱ 52'16		minimum elong	2061 May 30 18:01	10° Ⅱ 13'46	
morning rise	2060 Jun 28 22:02	25° Ⅱ 49'15		min. Earth dist.	2061 May 31 09:37	9° Ⅱ 51'49	0.54899 AU
direct	2060 Jul 01 19:30	25° Ⅱ 29'52		morning rise	2061 Jun 08 21:27	6° Ⅱ 05'22	
	2060 Jul 12 05:40	0ಂಣ -		direct	2061 Jun 12 05:15	5° ∏ 41'24	
morning max el	2060 Jul 13 00:13	0°541'31	20°53'00	morning max el	2061 Jun 24 23:07	11° Ⅱ 45'17	22°26'47
asc. node	2060 Jul 25 09:00	17°950'52		5	2061 Jul 08 09:35	0°95	
	2060 Jul 31 15:26	0°N		asc. node	2061 Jul 12 06:03	7° © 08'19	
morning set	2060 Aug 01 09:57	1° Ω 34'55		morning set	2061 Jul 16 20:13	16°526'17	
<i>5</i>	07.01			5	2061 Jul 23 05:21	0°Ω	
superior conj	2060 Aug 08 21:17	17° Ω 05'16	1°44'13				
minimum elong	2060 Aug 08 20:24	17° Ω 00'42		superior conj	2061 Jul 24 00:11	1° Ω 39'54	1°36'37
max. Earth dist.	2060 Aug 13 11:04	26° Ω 17'31	1.35734 AU	minimum elong	2061 Jul 23 22:17	1° Ω 29'49	1°36'28
Zurur dist.	2060 Aug 15 11:04 2060 Aug 15 08:49	0° mp	1.55751110	max. Earth dist.	2061 Jul 27 03:59	8° Ω 16'39	1.34248 AU
evening rise	2060 Aug 17 13:57	4° Mp 12'05		evening rise	2061 Jul 31 21:55	17° Ω 49'45	1.5 .2 10 /10
desc. node	2060 Sep 01 15:09	29° Mp 46'40		0 1 011111 <u>G</u> 1150	2061 Aug 07 10:17	0° m	
acce. node	2000 Dep 01 10.07	_> iiy io ii			2001.146 07 10.17	יעי י	

desc. node	2061 Aug 10 12:11	19° m 38'57		guparior aoni	2062 Jul 08 08:09	16° 5 29'28	1°23'38
desc. node	2061 Aug 19 12:11 2061 Aug 27 01:04	0° ⊡		superior conj minimum elong	2062 Jul 08 05:47	16°52928	1°23'19
evening max el	2061 Aug 27 01:04 2061 Sep 04 16:03	0 == 9° £ 40'55	27°07'35	max. Earth dist.	2062 Jul 10 06:11	20°937'26	1.33169 AU
retrograde	2061 Sep 17 23:41	16° £ 59'10	27 0733	max. Earth dist.	2062 Jul 14 17:22	20 3 37 20	1.33109 AU
evening set	2061 Sep 24 21:16	10 — 3710 14° Ω 15'31		evening rise	2062 Jul 15 17:03	2° Ω 00'31	
min. Earth dist.	2061 Sep 28 17:54	10° £ 31'03	0.65130 AU	evening rise	2062 Jul 31 07:14	0° mp	
inferior conj	2061 Sep 30 19:49	8° ⊆ 10'46		desc. node	2062 Aug 06 09:14	8° Mp 58'57	
minimum elong	2061 Sep 30 23:43	7° £ 59'50		evening max el	2062 Aug 18 03:10	22° m 52'20	27°25'55
morning rise	2061 Oct 07 03:00	2° £ 36'30	2 2 1 1 3	evening max er	2062 Aug 29 22:09	0ಂ ರ	27 23 33
asc. node	2061 Oct 08 05:16	2° £ 11'12		retrograde	2062 Aug 31 18:44	0° ჲ 09'49	
direct	2061 Oct 09 20:03	1° £ 57'06			2062 Sep 02 14:16	30°R ₩	
morning max el	2061 Oct 16 08:24	5° ≏ 27'18	18°07'53	evening set	2062 Sep 07 23:02	27° m 31'39	
Ü	2061 Nov 01 21:16	0°M		min. Earth dist.	2062 Sep 11 14:37	24° m) 20'26	0.63589 AU
morning set	2061 Nov 03 13:52	2°M48'01		inferior conj	2062 Sep 14 05:06	21° m)41'54	-3°22'08
desc. node	2061 Nov 15 11:27	22°M11'23		minimum elong	2062 Sep 14 10:11	21° m/28'58	3°20'32
				morning rise	2062 Sep 20 22:32	16° Mp 24'07	
superior conj	2061 Nov 17 22:03	26°M04'55	-0°16'22	direct	2062 Sep 23 10:48	15° m 53'25	
minimum elong	2061 Nov 17 19:59	25°M56'41	0°16'04	asc. node	2062 Sep 25 02:18	16° Mp 06'52	
behind sun begin	2061 Nov 17 18:30	25°M50'47		morning max el	2062 Sep 30 00:36	19° m 19'03	17°52'35
behind sun end	2061 Nov 17 21:28	26°M02'35			2062 Oct 07 21:22	0∘ ⊽	
	2061 Nov 20 09:26	0°⊀		morning set	2062 Oct 16 15:43	14° ≙ 55'04	
max. Earth dist.	2061 Nov 21 06:22	1° ≯ 22'31	1.44976 AU		2062 Oct 25 11:09	0°M	
evening rise	2061 Dec 04 07:57	21° х 45'34					
	2061 Dec 09 15:49	0°ප		superior conj	2062 Oct 28 22:57	5°M48'22	0°29'35
greatest brilliancy	2061 Dec 17 07:08	11° る 39'36	-0.7m	minimum elong	2062 Oct 29 01:59	6°M00'52	0°29'10
evening max el	2061 Dec 29 08:33	27° る 47'41	19°42'03	desc. node	2062 Nov 02 08:30	12°M58'22	
	2061 Dec 31 18:37	0° ≈		max. Earth dist.	2062 Nov 03 23:56	15°M36'37	1.44123 AU
asc. node	2062 Jan 04 04:33	1° ≈ 51'46			2062 Nov 13 03:57	0° ∡ ¹	
retrograde	2062 Jan 05 18:04	2° ≈ 05'13		evening rise	2062 Nov 13 16:57	0° ≯ 750'06	
evening set	2062 Jan 09 07:26	0° ≈ 51'10			2062 Dec 03 08:29	0°ಕ	
	2062 Jan 10 09:17	30°₹₹		evening max el	2062 Dec 12 10:07	11° る 18'20	20°44'37
inferior conj	2062 Jan 14 18:57	24° る 53'03	3°02'26	retrograde	2062 Dec 20 15:54	16° る 10'34	
minimum elong	2062 Jan 14 16:24	25° る 01'28	3°01'51	asc. node	2062 Dec 22 01:36	15° る 59'34	
min. Earth dist.	2062 Jan 15 20:42	23° る 28'07	0.66670 AU	evening set	2062 Dec 24 14:29	14° ろ 41'37	
morning rise	2062 Jan 20 01:08	18° ろ 40'08		inferior conj	2062 Dec 29 23:36	8° る 31'41	2°27'17
direct	2062 Jan 26 03:04	15°₹57'35		minimum elong	2062 Dec 29 21:02	8°る40'30	2°26'30
morning max el	2062 Feb 07 07:08	23°る12'22	25°34'38	min. Earth dist.	2062 Dec 30 12:26	7°る47'48	0.67417 AU
desc. node	2062 Feb 11 10:42	27° る 44'33		morning rise	2063 Jan 04 03:24	2°る18'35	
	2062 Feb 13 07:55	0° ≈		1	2063 Jan 08 10:29	30°R.✓	
	2062 Mar 06 00:33	0°) {		direct	2063 Jan 09 14:51	29° ₹ 53'40	
morning set	2062 Mar 15 13:16	16° ¥ 29′25	1 26072 AII		2063 Jan 10 20:03	0°る	24000142
max. Earth dist.	2062 Mar 19 07:15	23° ∺ 27'38 0° Ƴ	1.36073 AU	morning max el	2063 Jan 20 15:28 2063 Jan 29 07:44	6°る28'08 16°る38'57	24°09'43
	2062 Mar 22 16:38	0-1		desc. node	2063 Jan 29 07:44 2063 Feb 07 22:05	0°≈	
superior conj	2062 Mar 25 01:23	4° Υ 40'58	1016/41	morning set	2063 Feb 07 22:05 2063 Feb 25 10:06	0 ∞ 27°≈58'04	
minimum elong	2062 Mar 25 05:09	4° Υ 59'47		morning set	2063 Feb 26 14:07	27 ≈ 38 04	
evening rise	2062 Apr 02 03:01	21° Υ 05'24	1 10 03	max. Earth dist.	2063 Mar 01 03:40		1.38079 AU
asc. node	2062 Apr 02 03:52	21° Υ 09'45		max. Larth dist.	2005 With 01 05.40	7 7(32 44	1.50077710
use. Hode	2062 Apr 06 14:50	0°8		superior conj	2063 Mar 08 05:58	17°) 42′03	-1°40'38
evening max el	2062 Apr 19 19:36	19° 8 47'59	19°56'56	minimum elong	2063 Mar 08 10:17	18°) €02'39	
retrograde	2062 Apr 29 23:50	24° 8 43'02	1, 2020	mmmam viong	2063 Mar 14 13:22	0°Υ	1 10 10
evening set	2062 May 02 00:19	24° 8 32'16		evening rise	2063 Mar 17 02:04	4°Υ59'35	
desc. node	2062 May 10 09:55	20° 8 50'31		asc. node	2063 Mar 20 00:55	10° Ƴ 45'10	
inferior conj	2062 May 10 22:02	20° 8 32'11	-0°08'49		2063 Mar 31 23:06	0°8	
minimum elong	2062 May 10 21:38	20° 8 32'47		evening max el	2063 Apr 02 15:42	1° 8 47'20	19°00'39
transit middle	2062 May 10 21:38	20° 8 32'47	0°08'41	retrograde	2063 Apr 11 05:23	5° 8 56'54	
transit begin	2062 May 10 18:17	20° 8 37'52		evening set	2063 Apr 13 09:34	5° 8 41'57	
transit end	2062 May 11 00:58	20° 8 27'43		inferior conj	2063 Apr 21 12:19		1°35'58
min. Earth dist.	2062 May 12 23:14	19° 8 17'41	0.55416 AU	minimum elong	2063 Apr 21 15:44	1° 8 21'14	1°34'52
morning rise	2062 May 19 16:50	16° 8 06'02			2063 Apr 23 14:05	30° ₹ Υ	
direct	2062 May 23 19:49	15° 8 28'38		min. Earth dist.	2063 Apr 24 14:45	29° Ƴ 17'56	0.56787 AU
morning max el	2062 Jun 06 14:52	22° 8 18'48	24°08'46	desc. node	2063 Apr 27 06:57	27° Y 38'41	
	2062 Jun 13 09:16	$\Pi^{\circ}0$		morning rise	2063 Apr 29 18:50	26° Y 26'45	
asc. node	2062 Jun 29 03:06	26° Ⅱ 47'48		direct	2063 May 04 22:42	25° Y 23'49	
	2062 Jun 30 16:15	0 \circ \odot			2063 May 16 01:30	$0^{\circ}S$	
morning set	2062 Jul 01 08:00	1° 5 22'42		morning max el	2063 May 19 05:28	2° 8 46'30	25°45'05
					2063 Jun 07 13:22	Π °0	

morning set	2063 Jun 15 19:33	16° Ⅱ 17'45			2064 May 13 01:00	0°8	
asc. node	2063 Jun 16 00:10	16° Ⅱ 42'06			2064 May 29 16:36	0°II	
	2063 Jun 22 03:20	0°ಅ		morning set	2064 May 30 05:16	1° I 106'01	
				asc. node	2064 Jun 01 21:13	6° Ⅱ 46'06	
superior conj	2063 Jun 22 18:56	1°525'40	1°06'10				
minimum elong	2063 Jun 22 16:37	1° © 12'55	1°05'45	superior conj	2064 Jun 06 06:43	16° Ⅱ 22'40	0°45'00
max. Earth dist.	2063 Jun 23 15:08	3°516'20	1.32488 AU	minimum elong	2064 Jun 06 04:54	16° Ⅱ 12'37	0°44'37
evening rise	2063 Jun 29 19:54	16°932'56		max. Earth dist.	2064 Jun 06 03:12	16° Ⅱ 03'16	1.32190 AU
	2063 Jul 06 15:42	0° Ω			2064 Jun 12 12:57	0°©	
desc. node	2063 Jul 24 06:16 2063 Jul 26 06:51	27° Ω 32'16 0° m		evening rise	2064 Jun 13 03:50 2064 Jun 28 17:47	1° © 18'42 0° Ω	
evening max el	2063 Jul 31 10:31	5° Mg 29'28	27°12'44	desc. node	2064 Jul 10 03:17	14° Ω 59'54	
retrograde	2063 Aug 14 06:46	12° Mp 44'01	2/ 12 44	evening max el	2064 Jul 12 11:27	17° Ω 21'42	26°26'23
evening set	2063 Aug 21 10:03	10° m 23'46		retrograde	2064 Jul 26 10:57	24° Ω 33'48	
min. Earth dist.	2063 Aug 25 00:41	7° m 37'41	0.61735 AU	evening set	2064 Aug 02 01:42	22° Ω 44'24	
inferior conj	2063 Aug 28 02:21	4° Mp 52′17	-4°11'55	min. Earth dist.	2064 Aug 06 00:37	20° Ω 08'30	0.59686 AU
minimum elong	2063 Aug 28 07:37	4° Mp 40′24	4°10'45	inferior conj	2064 Aug 09 08:03	17° Ω 32'56	-4°47'43
morning rise	2063 Sep 04 06:45	29° Ω 54'35		minimum elong	2064 Aug 09 11:32	17° Ω 26′05	4°47'21
	2063 Sep 04 00:36	30°R€		morning rise	2064 Aug 16 23:26	12° Ω 57'53	
direct	2063 Sep 06 16:55	29° £ 29'39		direct	2064 Aug 19 10:06	12° Ω 36'31	10010110
asc. node	2063 Sep 09 07:53	0°Mp 1°m-21!27		morning max el asc. node	2064 Aug 27 01:51	16° Ω 18'54 18° Ω 11'34	18°18'18
morning max el	2063 Sep 11 23:21 2063 Sep 13 15:28	1° Mp 31'27 2° Mp 58'52	17°55'42	asc. node	2064 Aug 28 20:24 2064 Sep 05 17:19	0° Mg	
morning set	2063 Sep 19 13:13 2063 Sep 29 13:13	27° m 58'10	17 33 42	morning set	2064 Sep 12 00:47	11° m) 41'28	
	2063 Sep 30 15:59	0∘ ⊽					
	•			superior conj	2064 Sep 21 07:28	29° m 07'27	1°29'23
superior conj	2063 Oct 10 02:58	16° ≏ 51'53	1°05'32	minimum elong	2064 Sep 21 11:02	29° m 23'48	1°29'04
minimum elong	2063 Oct 10 07:32	17° ≏ 11'38	1°04'58		2064 Sep 21 18:59	0∘ ত	
max. Earth dist.	2063 Oct 17 13:25	29° ≏ 24'28	1.42656 AU	max. Earth dist.	2064 Sep 28 21:01	12° ≏ 30'14	1.40771 AU
	2063 Oct 17 22:05	0°M		evening rise	2064 Oct 03 13:28	20° Ω 21'13	
desc. node	2063 Oct 20 05:34	3°M45'38		desc. node	2064 Oct 06 02:35	24° Ω 29'27	
evening rise	2063 Oct 24 05:59 2063 Nov 06 07:38	10° M .09'54 0° ∡ 7			2064 Oct 09 14:01 2064 Oct 30 13:54	0° M 0° <i>⊀</i> 7	
evening max el	2063 Nov 25 06:00		21°57'56	evening max el	2064 Nov 06 21:08	8° × 23'05	23°17'15
evening max er	2063 Dec 02 10:18	0°る	21 37 30	retrograde	2064 Nov 17 06:38	14° ₹ 32'40	25 17 15
retrograde	2063 Dec 04 12:36	0° る 21'04		evening set	2064 Nov 22 04:55	12° ∡ ³30'35	
-	2063 Dec 06 12:33	30°R ✓		asc. node	2064 Nov 24 19:38	9° ∡ ¹47'10	
evening set	2063 Dec 08 22:12	28° ∡ ³35'53		min. Earth dist.	2064 Nov 27 04:33	6° ∡ ³39'55	0.67804 AU
asc. node	2063 Dec 08 22:36	28° ₹ 35'04		inferior conj	2064 Nov 27 14:01	6° ₰ 07'24	
inferior conj	2063 Dec 14 06:35	22° 🖈 17'23	1°44'46	minimum elong	2064 Nov 27 12:44	6° √ 11'48	0°55'44
minimum elong	2063 Dec 14 04:27	22° 🖈 24'47	1°43'59	morning rise	2064 Dec 02 20:30	29°M59'15	
min. Earth dist. morning rise	2063 Dec 14 07:50 2063 Dec 19 10:35	22° ₹ 13'04 16° ₹ 05'50	0.67784 AU	direct	2064 Dec 02 20:08 2064 Dec 07 02:21	30°Rጤ 28°ጤ19'12	
direct	2063 Dec 19 10:55 2063 Dec 24 06:54	10 ★ 03 30 14° ₹ 02'57		direct	2064 Dec 07 02:21 2064 Dec 11 18:46	0° √	
morning max el	2064 Jan 03 01:40	19° ₹ 50'10	22°41'20	morning max el	2064 Dec 15 17:01	3° ∡ 20′23	21°17'48
Č	2064 Jan 11 15:35	0° ට		desc. node	2065 Jan 02 01:48	26° ₹ '08'37	
desc. node	2064 Jan 16 04:46	6° る 10'37			2065 Jan 04 16:19	ರ∘ರ	
	2064 Feb 01 03:16	0° ≈		morning set	2065 Jan 15 17:13	16° る 55'27	
morning set	2064 Feb 06 04:01	8° ≈ 07'05		max. Earth dist.	2065 Jan 23 01:03	28° る 42'04	1.42249 AU
max. Earth dist.	2064 Feb 10 23:41	16° ≈ 11'29	1.40232 AU		2065 Jan 23 20:00	0° ≈	
superior conj	2064 Feb 18 18:20	29° ≈ 53'16	1050111	superior conj	2065 Jan 30 09:10	11° ≈ 01'40	2005106
minimum elong	2064 Feb 18 18:20 2064 Feb 18 21:39	0° ∺ 08'21		minimum elong	2065 Jan 30 09:03	11°≈01'40	
minimum ciong	2064 Feb 18 19:49	0° ∀	1 30 03	minimum ciong	2065 Feb 10 02:01	0° ∀	2 03 03
evening rise	2064 Feb 28 15:33	18° ∺ 21′29		evening rise	2065 Feb 10 15:38	1°) €01'42	
asc. node	2064 Mar 05 21:58	29°) 59'14		asc. node	2065 Feb 20 18:58	18°) 44'19	
	2064 Mar 05 22:08	0 ° $\mathbf{\Upsilon}$		evening max el	2065 Feb 27 06:34	27°) (17′45	18°08'21
evening max el	2064 Mar 15 20:26	14° Υ 20'16	18°24'31		2065 Mar 02 22:46	0° Υ	
retrograde	2064 Mar 23 06:04	17° Y 59'45		retrograde	2065 Mar 05 23:40	0° Υ 43'00	
evening set	2064 Mar 25 16:06	17° Υ 37'25	2040/24	evening set	2065 Mar 08 15:19	0°Υ11'16	
inferior conj	2064 Apr 01 23:51	13° Υ 02'49	2°48'34	infoni ·	2065 Mar 09 02:01	30°₹ 光	2020146
minimum elong min. Earth dist.	2064 Apr 02 03:40 2064 Apr 05 10:25	12° Υ 54'59 10° Υ 15'02	2°47'42 0.58719 AU	inferior conj minimum elong	2065 Mar 15 07:20 2065 Mar 15 09:33	25°) 16'00 25°) 10'43	3°28'46 3°28'30
morning rise	2064 Apr 09 12:28	7° Υ 32'12	0.56/19 AU	min. Earth dist.	2065 Mar 18 12:41	23 X 1043 22° X 13'48	0.60866 AU
desc. node	2064 Apr 13 03:58	6°Υ10'02		morning rise	2065 Mar 22 01:53	19°) 25'22	5.55555710
direct	2064 Apr 15 15:17	5°Υ53'55		direct	2065 Mar 28 19:40	17°) 11'24	
morning max el	2064 Apr 30 00:23	13° Y 36'40	27°00'06	desc. node	2065 Mar 31 00:59	17°) €25'09	

	2065 4 12 01 20	250 1 0 4155	27942110		2066 M 04 10 20	101/57116	
morning max el	2065 Apr 12 01:29	25°) €04'55	27°42'19	morning rise	2066 Mar 04 10:28	1° ¥ 57'16	
	2065 Apr 16 13:56	0° Υ			2066 Mar 07 18:38	30°R ≈	
	2065 May 06 09:40	0°8		direct	2066 Mar 11 09:19	29°≈17'29	
morning set	2065 May 14 11:18	15° 8 41'07			2066 Mar 15 04:35	0°) €	
asc. node	2065 May 19 18:17	26° 8 55'00		desc. node	2066 Mar 17 22:01	1° ₩ 16'56	
max. Earth dist.	2065 May 20 14:35	28° 8 45'32	1.32274 AU	morning max el	2066 Mar 25 07:48	7° ₩ 13'27	27°47'14
	2065 May 21 04:13	Π $\circ 0$			2066 Apr 11 17:56	0 ° Υ	
				morning set	2066 Apr 28 11:28	29° Ƴ 55'24	
superior conj	2065 May 21 17:49	1° Ⅱ 14'28	0°20'49		2066 Apr 28 12:23	9° 8	
minimum elong	2065 May 21 16:53	1° Ⅱ 09'20	0°20'37	max. Earth dist.	2066 May 03 21:22	11° 8 09'47	1.32767 AU
evening rise	2065 May 28 14:40	16° Ⅱ 10'34			•		
C	2065 Jun 04 11:29	0ം ഉ		superior conj	2066 May 06 02:28	15° 8 54'52	-0°05'39
evening max el	2065 Jun 24 05:23	28° © 28'31	25°11'17	minimum elong	2066 May 06 02:44	15° 8 56'19	0°05'35
	2065 Jun 25 21:36	0°Ω		behind sun begin	2066 May 05 21:49	15° 8 29'42	
desc. node	2065 Jun 27 00:17	0°Ω55'20		behind sun end	2066 May 06 07:40	16° 8 22'57	
retrograde	2065 Jul 08 05:27	5° Ω 35'34		asc. node	2066 May 06 15:18	17° 8 04'16	
evening set	2065 Jul 13 18:05	4° Ω 25'03		asc. node	2066 May 12 14:54	0°II	
•			0.57671 AU		•	0 П 1° П 01'38	
min. Earth dist.	2065 Jul 18 17:09	1° Ω 40'41	0.5/6/1 AU	evening rise	2066 May 13 02:31		
	2065 Jul 21 04:30	30°Rூ	10.5010.6		2066 May 29 04:33	0°50	22020126
inferior conj	2065 Jul 21 18:59	29° © 35'07		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°9543'37	
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	$0^{\circ}\Omega$		inferior conj	2066 Jul 02 09:45	10° © 52'17	-4°28'48
asc. node	2065 Aug 15 17:27	5° Ω 52'13		minimum elong	2066 Jul 02 03:35	11° © 01'35	4°27'45
morning set	2065 Aug 26 22:19	25° Ω 54'15		morning rise	2066 Jul 10 20:59	6°\$55'58	
S	2065 Aug 28 23:59	0° m		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° m 19'45	1°42'09	asc. node	2066 Aug 02 14:31	24°519'02	20 002.
minimum elong	2065 Sep 04 08:40	12° m) 28'02	1°42'05	asc. node	2066 Aug 05 18:54	0°Ω	
max. Earth dist.	-	24° Mp 53'21	1.38723 AU	marning act	-	10° Ω 27'21	
max. Earth dist.	2065 Sep 11 00:47		1.38/23 AU	morning set	2066 Aug 11 02:38	10-862/21	
	2065 Sep 13 21:59	0∘ ⊽					
evening rise	2065 Sep 14 21:06	1° ≏ 40′23		superior conj	2066 Aug 18 20:10	26° Ω 13'09	1°45'41
desc. node	2065 Sep 22 23:37	15° ≏ 06'17		minimum elong	2066 Aug 18 20:06	26° Ω 12'51	1°45'41
	2065 Oct 02 20:01	0°M			2066 Aug 20 17:41	O° Mp	
evening max el	2065 Oct 20 09:44	22°M00'32	24°36'22	max. Earth dist.	2066 Aug 24 06:02	6° Mp 49′24	1.36758 AU
retrograde	2065 Oct 31 20:53	28°M41'59		evening rise	2066 Aug 28 03:02	14° Mp 02'34	
evening set	2065 Nov 06 09:03	26°M23'31			2066 Sep 06 09:30	0∘ ত	
min. Earth dist.	2065 Nov 11 00:14	21°M06'26	0.67497 AU	desc. node	2066 Sep 09 20:38	5° £ 30'50	
inferior conj	2065 Nov 11 20:12	19°M59'52	0°03'04		2066 Sep 27 15:10	0°M	
minimum elong	2065 Nov 11 20:07	20°M,00'08	0°03'01	evening max el	2066 Oct 02 21:48	5°M40'45	25°48'03
transit middle	2065 Nov 11 20:07	20°M.00'08	0°03'01	retrograde	2066 Oct 15 06:22	12°M43'51	
transit begin	2065 Nov 11 17:25	20°M.09'08		evening set	2066 Oct 21 08:49	10°M11'15	
transit end	2065 Nov 11 22:49	19° M 51'08		min. Earth dist.	2066 Oct 25 16:24	5°M29'33	0.66856 AU
asc. node		20°M11'44			2066 Oct 26 23:18	3°M51'41	
	2065 Nov 11 16:39			inferior conj			
morning rise	2065 Nov 17 07:16	13°M57'29		minimum elong	2066 Oct 27 00:42	3°M47'15	0-52-59
direct	2065 Nov 21 00:11	12°M38'37	20005100	asc. node	2066 Oct 29 13:41	0°M43'25	
morning max el	2065 Nov 28 15:51	17°ML01'13	20°05'09		2066 Oct 30 06:03	30° ₹ Ω	
	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°M₊	
	2065 Dec 28 18:15	0°ප		morning max el	2066 Nov 11 22:15	0°M51′18	19°06'52
max. Earth dist.	2066 Jan 05 10:00	12° る 04'38	1.43863 AU		2066 Dec 02 09:06	0° ∡ ¹	
				morning set	2066 Dec 04 18:13	3° ∡ ¹42'36	
superior conj	2066 Jan 10 22:13	20° ප 59'05	-1°56'09	desc. node	2066 Dec 06 19:53	6° ₹ 156'25	
minimum elong	2066 Jan 10 16:41	20° る 36'24		max. Earth dist.	2066 Dec 19 01:33	26° ₹ 106'28	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
2 , ching 1150	2066 Feb 03 00:40	0° \		minimum elong	2066 Dec 21 01:55	29° 🖈 17'21	
asa nada		6° ¥ 51'42		minimum ciong		29 メ ・1 / 21	1 4/17
asc. node	2066 Feb 07 15:59		10011120	: ·	2066 Dec 21 12:42		
evening max el	2066 Feb 10 19:04	10°) € 31'50	18°11'30	evening rise	2067 Jan 05 06:51	23° る 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	

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greatest brilliancy	2068 Dec 09 14:01	4° ⋜ 40'12	-0.6m	retrograde	2069 Dec 13 12:07	9° ට 32'06	
evening max el	2068 Dec 21 20:56	20°る52'44	20°07'04	asc. node	2069 Dec 16 04:08	8° る 52'37	
asc. node	2068 Dec 29 07:06	25° පි 24'16		evening set	2069 Dec 17 15:03	7° る 56'36	
retrograde	2068 Dec 29 14:32	25° る 24'48		inferior conj	2069 Dec 22 23:40	1° る 42'34	2°10'05
evening set	2069 Jan 02 07:33	24° る 04'34		minimum elong	2069 Dec 22 21:14	1°る51'00	2°09'15
inferior conj	2069 Jan 07 17:48	18° る 00'47	2°48'33	min. Earth dist.	2069 Dec 23 07:31	1° る 15'31	0.67617 AU
minimum elong	2069 Jan 07 15:11	18° る 09'37	2°47'51		2069 Dec 24 05:35	30°R. ✓	
min. Earth dist.	2069 Jan 08 13:49	16° る 53'28	0.67028 AU	morning rise	2069 Dec 28 03:14	25° ҂ 29'37	
morning rise	2069 Jan 12 22:36	11° る 47'23		direct	2070 Jan 02 08:13	23° х 13′35	
direct	2069 Jan 18 18:25	9° る 11'42		morning max el	2070 Jan 12 20:19	29° ₰ ¹28'57	23°31'53
morning max el	2069 Jan 30 11:41	16° る 11'21	24°59'38		2070 Jan 13 08:28	5°0	
desc. node	2069 Feb 05 13:09	23° る 01'36		desc. node	2070 Jan 23 10:11	12°る13'05	
	2069 Feb 10 22:16	0° ≈			2070 Feb 04 18:16	0° ≈	
	2069 Mar 02 13:16	0° ∀		morning set	2070 Feb 17 01:44	19° ≈ 47'45	
morning set	2069 Mar 07 15:44	8° ¥ 51'55		max. Earth dist.	2070 Feb 21 02:06	26° ≈ 42'57	1.38987 AU
max. Earth dist.	2069 Mar 11 07:30	15°) 30′40	1.36887 AU		2070 Feb 22 22:40	0° ∀	
superior conj	2069 Mar 17 16:04	27°) 38′58	-1°27'24	superior conj	2070 Feb 28 14:18	10°) 19'43	-1°49'08
minimum elong	2069 Mar 17 20:11	27°) 59'14	1°26'50	minimum elong	2070 Feb 28 18:26	10°) 39′04	1°48'46
C	2069 Mar 18 20:40	$0^{\circ}\mathbf{Y}$		evening rise	2070 Mar 09 20:12	28° ¥ 05'11	
evening rise	2069 Mar 26 00:52	14° Y 24'31		•	2070 Mar 10 19:55	$0^{\circ}\mathbf{Y}$	
asc. node	2069 Mar 27 06:25	16° Ƴ 52'11		asc. node	2070 Mar 14 03:27	6° Ƴ 18'52	
	2069 Apr 03 06:13	9° 8		evening max el	2070 Mar 26 03:53	24° Y 24'17	18°42'56
evening max el	2069 Apr 12 03:41	12° 8 09'36	19°30'34	retrograde	2070 Apr 03 04:11	28° Y 18'46	
retrograde	2069 Apr 21 14:55	16° 8 44'05		evening set	2070 Apr 05 10:49	28° Y ′01'02	
evening set	2069 Apr 23 16:04	16° 8 32'11		inferior conj	2070 Apr 13 05:16	23° Y 38'35	2°10'57
inferior conj	2069 May 02 06:08	12° 8 26'59	0°38'54	minimum elong	2070 Apr 13 09:13	23° Y 31'11	2°09'50
minimum elong	2069 May 02 07:46	12° 8 24'21	0°38'19	min. Earth dist.	2070 Apr 16 13:22	21° Y 10'01	0.57554 AU
desc. node	2069 May 04 12:21	10° 8 59'57		morning rise	2070 Apr 21 04:29	18° Y 24'12	
min. Earth dist.	2069 May 04 20:08	10° 8 47'45	0.55904 AU	desc. node	2070 Apr 21 09:22	18° Y 18'46	
morning rise	2069 May 10 20:41	7° 8 46'00		direct	2070 Apr 26 18:58	17° Y ′06'37	
direct	2069 May 15 09:42	6° 8 59'21		morning max el	2070 May 11 03:30	24° Ƴ 39'48	26°20'24
morning max el	2069 May 29 11:40	14° 8 05'51	24°51'23		2070 May 16 01:05	0° 8	
	2069 Jun 10 23:27	0°П			2070 Jun 03 23:36	0°II	
asc. node	2069 Jun 23 05:42	22° I I34'36		morning set	2070 Jun 08 21:18	9° П 57'33	
morning set	2069 Jun 24 10:20	25° Ⅱ 04'35 0° ©		asc. node	2070 Jun 10 02:44	12° ∏ 33'38	
	2069 Jun 26 17:37	0.50		avmariar aani	2070 Jun. 15 21:15	250T00120	0057127
aumariar aani	2069 Jul 01 09:48	10° © 10'46	1016144	superior conj	2070 Jun 15 21:15 2070 Jun 15 19:05	25°Ⅲ08'30 24°Ⅲ56'35	0°57'37
superior conj minimum elong	2069 Jul 01 09:48 2069 Jul 01 07:24	9° 9 57'39		minimum elong max. Earth dist.	2070 Jun 16 07:02		1.32310 AU
max. Earth dist.	2069 Jul 01 07:24 2069 Jul 02 20:26	13° © 18'52	1.32827 AU	max. Earth dist.	2070 Jun 18 02:23	0°95	1.32310 AO
evening rise	2069 Jul 08 14:46	25° © 29'41	1.52027710	evening rise	2070 Jun 22 20:04	10° © 09'15	
evening rise	2069 Jul 10 20:26	0°Ω		evening rise	2070 Jul 03 03:17	0°Ω	
	2069 Jul 28 09:00	0° mp		desc. node	2070 Jul 18 08:43	22° Ω 27'41	
desc. node	2069 Jul 31 11:43	4° m 19'07		evening max el	2070 Jul 23 12:38	27° Ω 59′02	26°57'05
evening max el	2069 Aug 10 07:35	15° m 39'01	27°24'20	•	2070 Jul 25 19:03	O° Mp	
retrograde	2069 Aug 24 01:43	22° m 56'19		retrograde	2070 Aug 06 10:49	5° Mp 12'35	
evening set	2069 Aug 31 06:41	20° m 23'55		evening set	2070 Aug 13 10:06	3° m 04'17	
min. Earth dist.	2069 Sep 03 20:58	17° m 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° m 41'20	-3°44'26		2070 Aug 17 14:40	30° R Ω	
minimum elong	2069 Sep 06 22:00	14° Mp 28'24	3°42'58	inferior conj	2070 Aug 20 07:48	27° Ω 40'52	-4°29'24
morning rise	2069 Sep 13 14:45	9° m 31'57		minimum elong	2070 Aug 20 12:36	27° Ω 30'36	4°28'33
direct	2069 Sep 16 01:40	9° m 04'11		morning rise	2070 Aug 27 16:54	22° Ω 52′18	
asc. node	2069 Sep 19 04:54	9° m 50'37		direct	2070 Aug 30 02:50	22° Ω 29'11	
morning max el	2069 Sep 22 18:25	12° m 30'31	17°51'35	asc. node	2070 Sep 06 01:56	25° Ω 49'14	
	2069 Oct 04 14:46	0∘ ⊽		morning max el	2070 Sep 06 07:45	26° Ω 03'09	18°02'44
morning set	2069 Oct 08 23:38	7° £ 42'31			2070 Sep 09 17:17	0° Mp	
	20(0.0 + 20.12.00	270 2 4112 5	0046116	morning set	2070 Sep 22 03:46	21° Mp 04'35	
superior conj	2069 Oct 20 12:03	27° Ω 41'36	0°46'16		2070 Sep 26 23:34	0∘ ⊽	
minimum elong	2069 Oct 20 16:09	27° Ω 58'50	0°45'43	avmoni	2070 0-4 02 02 04	00017116	1017105
dogo rada	2069 Oct 21 21:06	0°M		superior conj	2070 Oct 02 03:04	9° £ 17'16	
desc. node max. Earth dist.	2069 Oct 27 11:00 2069 Oct 27 06:59	9°M08'56 8°M52'40	1.43560 AU	minimum elong max. Earth dist.	2070 Oct 02 07:25 2070 Oct 09 17:48	9° £ 36'30 22° £ 23'04	1°16'36 1.41900 AU
evening rise	2069 Nov 04 15:11	22°M03'56	1.73300 AU	desc. node	2070 Oct 09 17.48 2070 Oct 14 08:03	22 ≗ 23 04 29° £ 55'07	1.71700 AU
evening rise	2069 Nov 04 13:11 2069 Nov 09 19:23	22 11 € 03 30		dese. Houe	2070 Oct 14 08:03 2070 Oct 14 09:15	29 = 3307 0° ™	
	2069 Nov 30 22:54	% 5°0		evening rise	2070 Oct 14 09:13 2070 Oct 15 10:51	1°M42'43	
evening max el	2069 Dec 04 19:58	4°る23'08	21°14'43	5. Cg 1100	2070 Oct 13 10:51 2070 Nov 03 06:51	0°×7	

avanina may al	2070 Nov. 17, 12:46	179.755120	22021117	avanina may al	2071 Oct. 21, 02:41	19.720151	23°51'19
evening max el	2070 Nov 17 13:46 2070 Nov 27 07:44	17° ₹ 55'30 23° ₹ 43'00	22°31'17	evening max el	2071 Oct 31 03:41 2071 Nov 11 00:09	1° х ⁷ 30'51 7° х ⁷ 54'16	23-31-19
retrograde evening set	2070 Nov 27 07.44 2070 Dec 01 22:30	23 x 43 00 21° x 50'53		retrograde evening set	2071 Nov 11 00:09 2071 Nov 16 04:20	5° ∡ ′45′00	
asc. node	2070 Dec 01 22:30 2070 Dec 03 01:09	21 x 30 33		asc. node	2071 Nov 10 04.20 2071 Nov 19 22:11	1° x ⁷ 35'49	
inferior conj	2070 Dec 03 01:09 2070 Dec 07 07:04	20 х 4940 15° х 30'07	1°24'52	min. Earth dist.	2071 Nov 19 22:11 2071 Nov 21 00:16	0° ∡ '08'38	0.67722 AU
minimum elong	2070 Dec 07 07:04 2070 Dec 07 05:15	15° × 36'25	1°24'08	iiiii. Eartii tiist.	2071 Nov 21 00:10 2071 Nov 21 02:49	30°RM	0.07722 AU
min. Earth dist.	2070 Dec 07 03:15 2070 Dec 07 03:46	15° × 41'32	0.67843 AU	inferior conj	2071 Nov 21 02:49 2071 Nov 21 14:11	29°M21'20	0°34'12
morning rise	2070 Dec 07 03:40 2070 Dec 12 11:50	9° × 19'41	0.07643 AU	minimum elong	2071 Nov 21 14:11 2071 Nov 21 13:23	29°M24'05	0°33'51
direct	2070 Dec 12 11:50 2070 Dec 17 01:59	7°×726'18		morning rise	2071 Nov 26 22:24	23°M15'33	0 33 31
morning max el	2070 Dec 17 01:39 2070 Dec 26 08:06	12° × ⁷ 53'01	22°04'37	direct	2071 Nov 20 22:24 2071 Nov 30 22:36	21°M44'45	
morning max er	2070 Dec 20 08:00 2071 Jan 08 22:20	12 メ ・33 01	22 04 3 /	morning max el	2071 Nov 30 22:30 2071 Dec 09 02:31	26°M27'44	20°45'18
desc. node	2071 Jan 08 22:20 2071 Jan 10 07:14	0 8 1° 8 56'51		morning max cr	2071 Dec 09 02:31 2071 Dec 12 07:18	20 11 6 27 44 0° √ 1	20 43 18
	2071 Jan 28 06:56	1 03031 29° る 19'45		desc. node	2071 Dec 12 07:18 2071 Dec 28 04:17	22° ∡ ¹03'55	
morning set	2071 Jan 28 16:54	29 ⊙ 1943		desc. node	2071 Dec 28 04.17 2072 Jan 02 10:23	22 メ ・03 33	
max. Earth dist.	2071 Jan 28 16:54 2071 Feb 02 23:44	0°≈ 8°≈41'46	1.41128 AU		2072 Jan 02 10:23 2072 Jan 07 10:36	7°る43'19	
max. Earth dist.	20/1 Feb 02 23.44	o ≈4140	1.41128 AU	morning set		7 343 19 21° る 38'25	1 42005 AII
	2071 E-L 10 19:00	22905122	2002147	max. Earth dist.	2072 Jan 16 05:01	21° ⊙ 38′23	1.43005 AU
superior conj	2071 Feb 10 18:09	22°≈05'32			2072 Jan 21 07:07	0°≈	
minimum elong	2071 Feb 10 20:21	22°≈15'15	2°02'41		2072 1 22 22 27	20 4407	2002120
	2071 Feb 15 03:34	0°) (superior conj	2072 Jan 22 22:27	2°≈44'37	
evening rise	2071 Feb 21 04:26	11°) (09'41		minimum elong	2072 Jan 22 20:08	2°≈34'53	2°03'27
asc. node	2071 Mar 01 00:28	25°) €21'04		evening rise	2072 Feb 03 21:37	23° ≈ 30'09	
	2071 Mar 03 21:13	0° Υ			2072 Feb 07 13:37	0° ∀	
evening max el	2071 Mar 09 11:20	7° Y 08'30	18°15'17	asc. node	2072 Feb 15 21:30	13° ¥ 51′25	
retrograde	2071 Mar 16 12:19	10° Ƴ 39'41		evening max el	2072 Feb 20 22:51	20° ¥ 13'55	18°07'18
evening set	2071 Mar 19 01:00	10° Y 13′23		retrograde	2072 Feb 27 12:06	23° ∺ 37'35	
inferior conj	2071 Mar 26 01:33	5° Y 29'57	3°09'18	evening set	2072 Mar 01 06:02	23° ₭ 01'23	
minimum elong	2071 Mar 26 04:50	5° Y 22'47	3°08'41	inferior conj	2072 Mar 07 16:27	17° ¥ 57′04	3°37'33
min. Earth dist.	2071 Mar 29 11:14	2° Ƴ 33'03	0.59626 AU	minimum elong	2072 Mar 07 17:49	17° ¥ 53′38	3°37'26
	2071 Apr 01 23:32	30°Ŗ ℋ		min. Earth dist.	2072 Mar 10 16:46	14° ∺ 56'42	0.61767 AU
morning rise	2071 Apr 02 06:18	29°) 49′58		morning rise	2072 Mar 14 04:09	12° ∺ 00'45	
desc. node	2071 Apr 08 06:23	27° ¥ 56′24		direct	2072 Mar 21 01:10	9° ∺ 34'35	
direct	2071 Apr 08 16:53	27° ¥ 55'52		desc. node	2072 Mar 25 03:25	10° ∺ 21′29	
	2071 Apr 15 17:39	0° Y		morning max el	2072 Apr 04 04:22	17° ∺ 29'28	27°49'05
morning max el	2071 Apr 23 00:42	5° Ƴ 43'29	27°22'37		2072 Apr 14 14:27	0° Y	
	2071 May 11 02:09	0°8			2072 May 02 18:53	9° 8	
morning set	2071 May 24 05:39	24° 8 40'24		morning set	2072 May 07 09:29	9° 8 07'06	
	2071 May 26 18:07	$\Pi^{\circ}0$		max. Earth dist.	2072 May 13 05:25	21° 8 25'20	1.32436 AU
asc. node	2071 May 27 23:46	2° ∏ 39'43		asc. node	2072 May 13 20:48	22° 8 48'48	
superior conj	2071 May 31 08:54	10° Ⅱ 03'30	0°35'04	superior conj	2072 May 14 19:09	24° 8 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° 8 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° 8 25'43	
evening rise	2071 Jun 07 05:28	24° ∏ 58'16		behind sun end	2072 May 14 22:46	25° 8 10'09	
	2071 Jun 09 15:27	0 \circ \odot			2072 May 17 03:49	$\Pi^{\circ}0$	
	2071 Jun 27 05:00	$\mathfrak{O}^{\circ} \mathfrak{O}$		evening rise	2072 May 21 16:58	9° Ⅱ 50′06	
desc. node	2071 Jul 05 05:42	9° Ω 19'44			2072 Jun 01 02:06	0 \circ \odot	
evening max el	2071 Jul 05 10:44	9° Ω 31'47	25°57'34	evening max el	2072 Jun 16 02:09	20° ട്ട 20'57	24°32'59
retrograde	2071 Jul 19 10:44	16° Ω 41′26		desc. node	2072 Jun 21 02:42	24° © 25'02	
evening set	2071 Jul 25 16:06	15° Ω 08′23		retrograde	2072 Jun 29 23:53	27°ള23'00	
min. Earth dist.	2071 Jul 29 23:13	12° Ω 31′07	0.58814 AU	evening set	2072 Jul 04 22:22	26° © 28'12	
inferior conj	2071 Aug 02 05:53	10° Ω 06′10	-4°56'04	min. Earth dist.	2072 Jul 10 13:11	23° © 35'36	0.56905 AU
minimum elong	2071 Aug 02 07:48	10° Ω 02'36	4°55'58	inferior conj	2072 Jul 13 08:03	21° 5 548'22	-4°51'20
morning rise	2071 Aug 10 01:42	5° Ω 40'30		minimum elong	2072 Jul 13 04:48	21° 9 53'36	4°51'03
direct	2071 Aug 12 13:26	5° Ω 19'59		morning rise	2072 Jul 21 13:57	17° © 43'59	
morning max el	2071 Aug 20 15:10	9° Ω 11'19	18°34'04	direct	2072 Jul 24 05:18	17° © 24'51	
asc. node	2071 Aug 23 22:59	12° Ω 56′26		morning max el	2072 Aug 02 13:43	21° 5 346'00	19°26'41
	2071 Sep 03 05:09	0° mp		Ü	2072 Aug 09 05:08	$0^{\circ}\Omega$	
morning set	2071 Sep 05 20:02	5° Mp 01'41		asc. node	2072 Aug 09 20:02	0° Ω 57'35	
	20p 00 20.02	- 17 71 11		morning set	2072 Aug 19 20:46	19° Ω 23'39	
superior conj	2071 Sep 14 16:19	21° m 58'33	1°36'02		2072 Aug 25 03:33	0° m)	
minimum elong	2071 Sep 14 10:19 2071 Sep 14 19:08	22° mp 11'45	1°35'50		20,211ug 20 00.00	יעיי י	
mmmum ciong	2071 Sep 14 19:08 2071 Sep 19 01:25	0° ⊽	1 33 30	superior conj	2072 Aug 27 22:12	5° m 29'46	1°44'40
max. Earth dist.	2071 Sep 19 01:23 2071 Sep 21 23:50	0 == 5° £ 11'46	1.39915 AU	minimum elong	2072 Aug 27 22:12 2072 Aug 27 23:07	5° m) 34'19	1°44'39
evening rise	2071 Sep 21 23:30 2071 Sep 26 04:28	12° £ 22'18	1.37713 AU	max. Earth dist.	2072 Aug 27 23.07 2072 Sep 03 03:40	3 11/34 19 17° Mg 21'05	1.37862 AU
desc. node	2071 Sep 26 04:28 2071 Oct 01 05:04	20° £ 36'18		evening rise	•	24° Mp 08'34	1.57004 AU
acsc. Hour	2071 Oct 01 05:04 2071 Oct 07 05:43	0°M		evening 1180	2072 Sep 06 21:57	24° பு/08'34 0° ட	
	2071 Oct 07 05:43 2071 Oct 29 16:25	0°11L 0° ∡ 7		desc. node	2072 Sep 10 07:00 2072 Sep 17 02:04	0° <u>32</u>	
	20/1 Oct 29 10.23	υ Χ .		uese. Hout	2012 Sep 11 02.04	11 == 06 13	

	2072 Sep 29 22:43	0°M		evening rise	2073 Aug 20 12:06	6° Mp 54′23	
ovening may al	2072 Sep 29 22:43 2072 Oct 12 15:43	15°M09'09	25°08'09	evening rise	2073 Sep 03 00:54	0° ⊡	
evening max el retrograde	2072 Oct 12 13:43 2072 Oct 24 12:27	22°M01'14	23 08 09	dasa nada	2073 Sep 03 00.34 2073 Sep 03 23:05	0 <u>≈</u> 1° Ω 26'00	
Č				desc. node			26914122
evening set	2072 Oct 30 06:52	19°M36'01	0.67060 444	evening max el	2073 Sep 25 03:43	28° Ω 48'45	26°14'23
min. Earth dist.	2072 Nov 03 18:38	14°M34'04			2073 Sep 26 10:02	0°M	
inferior conj	2072 Nov 04 19:17	13°M13'32		retrograde	2073 Oct 07 20:01	5°M58'51	
minimum elong	2072 Nov 04 19:48	13°M11'50	0°20°26	evening set	2073 Oct 14 04:14	3°M21'19	
asc. node	2072 Nov 05 19:15	11°M55'53			2073 Oct 17 10:57	30° ₹ Ω	
morning rise	2072 Nov 10 08:55	7° ™ 14'43		min. Earth dist.	2073 Oct 18 08:37	28° Ω 55'09	
direct	2072 Nov 13 20:51	6° ™ 04'09		inferior conj	2073 Oct 19 20:31	27° △ 04'29	
morning max el	2072 Nov 21 04:49	10°M13'15	19°38'30	minimum elong	2073 Oct 19 22:36	26° ≙ 58'06	1°17'24
greatest brilliancy	2072 Dec 04 10:58	27°M50'45	-0.7m	asc. node	2073 Oct 23 16:18	22° ≏ 48'04	
	2072 Dec 05 21:28	0°⊀		morning rise	2073 Oct 25 17:25	21° ≏ 15'15	
desc. node	2072 Dec 14 01:18	12° ≯ 27'08		direct	2073 Oct 28 19:12	20° ≏ 21'22	
morning set	2072 Dec 16 07:22	15° ₹ 55'41		morning max el	2073 Nov 04 14:07	24° ≏ 07'01	18°46'51
	2072 Dec 25 08:07	0° ප			2073 Nov 09 11:25	0° M	
max. Earth dist.	2072 Dec 28 17:17	5° る 20'26	1.44372 AU	morning set	2073 Nov 25 21:54	25° ™ 07'13	
					2073 Nov 29 00:07	0° ∡ 7	
superior conj	2073 Jan 02 00:15	12° る 11'36	-1°46'37	desc. node	2073 Nov 30 22:22	3° ҂ 02'12	
minimum elong	2073 Jan 01 16:40	11° る 41'08	1°46'03	max. Earth dist.	2073 Dec 11 10:13	19° ∡ ³31'16	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		Ü	2073 Dec 18 01:48	8°0	
evening max el	2073 Feb 03 11:25	3°) (32′13	18°18'27	evening rise	2073 Dec 27 18:05	15° る 26'45	
retrograde	2073 Feb 09 22:42	7° ₩ 01'38		<i>8</i>	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		3°42'48	asc. node	2074 Jan 19 15:35	18°≈32'58	10 17 17
minimum elong	2073 Feb 18 21:20			retrograde	2074 Jan 24 16:03	20°≈44'17	
minimum crong	2073 Feb 19 15:52	30°R≈	3 12 10	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	0.03713 AO	minimum elong	2074 Feb 02 11:59	14°≈09'59	3°30'57
direct	2073 Net 24 20:03 2073 Mar 03 18:01	24 ≈43 23 21°≈59'05		min. Earth dist.	2074 Feb 02 11:39 2074 Feb 04 08:15	14 ≈09 39 11°≈54'08	0.65321 AU
						7°≈54'02	0.03321 AU
desc. node	2073 Mar 12 00:28	25°≈09'37	27929122	morning rise	2074 Feb 08 02:31		
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	26054140
	2073 Apr 08 13:38	0°Υ		morning max el	2074 Feb 27 22:18	12°≈46′18	26°54'48
morning set	2073 Apr 21 06:22	23° Y ′09′52			2074 Mar 13 19:12	0°) €	
	2073 Apr 24 15:16	0°8			2074 Apr 01 04:08	0°Υ	
max. Earth dist.	2073 Apr 26 09:12	3° 8 38'32	1.33106 AU	morning set	2074 Apr 04 17:08	6° Y 38'43	
				max. Earth dist.	2074 Apr 09 02:54	15° Y 18'43	1.34226 AU
superior conj	2073 Apr 29 02:11	9° 8 23'34					
minimum elong	2073 Apr 29 03:03	9° 8 28'09	0°17'09	superior conj	2074 Apr 13 03:55	23° Y 36'23	
asc. node	2073 Apr 30 17:52	12° 8 56'45		minimum elong	2074 Apr 13 06:13	23° Y 48'21	0°44'53
evening rise	2073 May 06 04:42	24° 8 38'23			2074 Apr 16 04:58	9° 8	
	2073 May 08 18:34	Π $^{\circ}0$		asc. node	2074 Apr 17 14:55	2° 8 59'20	
	2073 May 27 20:04	0		evening rise	2074 Apr 20 14:45	9° 8 16'50	
evening max el	2073 May 28 16:03	0° © 49'44	22°57'13		2074 May 01 14:43	Π $^{\circ}0$	
desc. node	2073 Jun 07 23:42	7° 5 08'06		evening max el	2074 May 10 12:08	11° Ⅱ 30′03	21°25'04
retrograde	2073 Jun 11 00:53	7° 5 29'20		retrograde	2074 May 22 15:25	17° Ⅱ 26′14	
evening set	2073 Jun 14 11:19	7° © 03'25		evening set	2074 May 25 00:11	17° Ⅲ 13'27	
min. Earth dist.	2073 Jun 22 01:01	3° © 41'28	0.55494 AU	desc. node	2074 May 25 20:44	17° Ⅲ 02'48	
inferior conj	2073 Jun 23 14:58	2° © 46'34	-4°01'41	inferior conj	2074 Jun 03 09:51	13° Ⅱ 13'34	-2°25'53
minimum elong	2073 Jun 23 07:24	2° 5 57'33	3°59'59	minimum elong	2074 Jun 03 03:17	13° Ⅲ 22'47	2°23'42
	2073 Jun 28 21:50	30°R Ⅱ		min. Earth dist.	2074 Jun 03 13:08	13° Ⅲ 08'58	0.54906 AU
morning rise	2073 Jul 02 05:56	28° ∏ 54′05		morning rise	2074 Jun 12 06:56	9° Ⅱ 15'57	
direct	2073 Jul 05 02:18	28° Ⅲ 34'57		direct	2074 Jun 15 12:50	8° Ⅱ 53'00	
	2073 Jul 10 21:41	0°95		morning max el	2074 Jun 28 01:35	14° ∏ 49'08	22°12'00
morning max el	2073 Jul 16 01:15	3° 5 39'34	20°40'23	<i>5</i>	2074 Jul 09 15:40	0.2 1.2	
asc. node	2073 Jul 27 17:07	19° 5 540'19	- 	asc. node	2074 Jul 14 14:10	8°953'49	
	2073 Aug 02 03:20	0°Ω		morning set	2074 Jul 19 13:10	18° © 53'27	
morning set	2073 Aug 04 03:13	4° Ω 03'15			2074 Jul 24 19:00	0°Ω	
morning set	20,5 11ug 07 05.15	. 0000 10			20/10dl 27 17.00	V 06	
superior conj	2073 Aug 11 16:01	19° Ω 37'17	1°44'51	superior conj	2074 Jul 26 17:59	4° Ω 08'54	1°38'10
minimum elong	2073 Aug 11 15:20	19° Ω 33'46	1°44'49	minimum elong	2074 Jul 26 16:12	3° £ 59′30	1°38'01
max. Earth dist.	2073 Aug 16 10:58	29° Ω 11'44	1.35985 AU	max. Earth dist.	2074 Jul 30 02:34	11° Ω 08'39	1.34447 AU
	2073 Aug 16 20:53	0° m/y	-	evening rise	2074 Aug 03 18:07	20° Ω 26'12	-
		~		<i>U</i> - *			

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	2074 Aug 08 20:27	0° т р		evening rise	2075 Jul 18 11:47	4° Ω 32'07	
desc. node	2074 Aug 21 20:07	21° Tp 22'02			2075 Aug 01 13:09	0° m)	
	2074 Aug 27 23:28	0° ⊽	27002126	desc. node	2075 Aug 08 17:06	10° m/47'05	25025102
evening max el	2074 Sep 07 16:04	12° £ 21'42	27°02'26	evening max el	2075 Aug 21 03:28	25° m/36'18	27°25'03
retrograde	2074 Sep 20 22:02	19° £ 39'06			2075 Aug 26 13:23	0∘ ⊽	
evening set	2074 Sep 27 18:09	16° £ 55'45	0.65334 AU	retrograde	2075 Sep	2° £ 53'51 0° £ 14'04	
min. Earth dist. inferior conj	2074 Oct 01 15:46 2074 Oct 03 15:46	13 2 03 34 10° 2 49'11		evening set	2075 Sep 10 21:42 2075 Sep 11 05:08	0 <u>=</u> 14 04 30°R m)	
minimum elong	2074 Oct 03 13:46 2074 Oct 03 19:26	10 = 4911 10° = 38'44		min. Earth dist.	2075 Sep 11 03:08 2075 Sep 14 13:52	26° Mp 58'22	0.63841 AU
morning rise	2074 Oct 09 13:20 2074 Oct 09 21:30	5° £ 12'37	2 13 2)	inferior conj	2075 Sep 17 13:32 2075 Sep 17 02:31	24° m) 22'01	
asc. node	2074 Oct 09 21:30 2074 Oct 10 13:21	4° £ 55'22		minimum elong	2075 Sep 17 02:31 2075 Sep 17 07:28	24° m) 09'12	
direct	2074 Oct 10 15:21 2074 Oct 12 15:33	4° £ 31'33		morning rise	2075 Sep 17 07:26 2075 Sep 23 18:23	19° m) 01'37	3 12 10
morning max el	2074 Oct 19 04:11	8° ₽ 03'00	18°11'39	direct	2075 Sep 26 07:14	18° m) 29'47	
morning man or	2074 Nov 03 05:12	0°M	10 11 0 ,	asc. node	2075 Sep 27 10:25	18° m/36'14	
morning set	2074 Nov 06 17:25	5°M46'03		morning max el	2075 Oct 02 20:18	21° m) 55'24	17°53'45
desc. node	2074 Nov 17 19:26	23°M44'42			2075 Oct 09 01:33	0∘ ರ	
				morning set	2075 Oct 19 15:43	17° ≗ 42'41	
superior conj	2074 Nov 21 08:53	29°M24'24	-0°23'46	C	2075 Oct 26 20:38	0° M .	
minimum elong	2074 Nov 21 05:50	29°M12'20					
· ·	2074 Nov 21 17:53	0°⊀		superior conj	2075 Nov 01 05:56	8°M56'14	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° M 31'06	
	2074 Dec 10 22:42	ರ°0		max. Earth dist.	2075 Nov 06 23:27	18° M 11'27	1.44289 AU
greatest brilliancy	2074 Dec 20 02:03	14° る 03'54	-0.7m		2075 Nov 14 11:44	0° ∡ ¹	
	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	8°0	
asc. node	2075 Jan 06 12:37	4°≈17'55		evening max el	2075 Dec 15 08:22	13° る 57'39	20°34'30
retrograde	2075 Jan 08 12:53	4° ≈ 40′07		retrograde	2075 Dec 23 10:47	18° る 44'26	
evening set	2075 Jan 12 01:07	3° ≈ 28′01		asc. node	2075 Dec 24 09:39	18° る 39'22	
	2075 Jan 15 14:35	30°Rる		evening set	2075 Dec 27 07:54	17° る 17'43	
inferior conj	2075 Jan 17 13:09	27° る 31'57	3°07'00	inferior conj	2076 Jan 01 17:15	11° る 09'12	2°33'10
minimum elong	2075 Jan 17 10:39	27° る 40'06	3°06'27	minimum elong	2076 Jan 01 14:39	11° る 18'05	2°32'23
min. Earth dist.	2075 Jan 18 16:56	26° る 01'00	0.66526 AU	min. Earth dist.	2076 Jan 02 07:52	10° る 19'24	0.67328 AU
morning rise	2075 Jan 22 19:57	21° る 19'18		morning rise	2076 Jan 06 21:14	4° る 56'03	
direct	2075 Jan 28 23:54	18° る 34'51		direct	2076 Jan 12 10:53	2° る 28'16	
morning max el	2075 Feb 10 07:30	25° る 54'09	25°46'25	morning max el	2076 Jan 23 15:55	9° る 09'25	24°22'54
desc. node	2075 Feb 13 18:36	29° る 38'34		desc. node	2076 Jan 31 15:39	18° る 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	1 25002 ATT	morning set	2076 Feb 28 13:51	1°) €00'14	1 27765 ATT
max. Earth dist.	2075 Mar 22 09:02	26° ∺ 29'40 0° Ƴ	1.35803 AU	max. Earth dist.	2076 Mar 03 06:20	/* 大3311/	1.37765 AU
	2075 Mar 24 04:38	OsA		aumariar aani	2076 Mar 10 04:19	20°) € 28'35	1027121
superior conj	2075 Mar 27 21:46	7° Ƴ 21'27	1012142	superior conj minimum elong	2076 Mar 10 04:19 2076 Mar 10 08:37	20 X 28 33 20° X 49'18	
minimum elong	2075 Mar 28 01:23	7° Υ 39'35		minimum ciong	2076 Mar 15 01:08	20 γ (4918	1 30 30
asc. node	2075 Apr 04 11:57	22° Υ 52'21	1 1207	evening rise	2076 Mar 18 21:17	7° Υ 37'19	
evening rise	2075 Apr 04 21:07	23° Y 39'08		asc. node	2076 Mar 21 08:58	12° Υ 30'16	
evening rise	2075 Apr 04 21:07 2075 Apr 08 00:59	0° 8		asc. node	2076 Mar 31 14:39	0°8	
evening max el	2075 Apr 22 19:16	22° 8 44'23	20°06'58	evening max el	2076 Apr 04 13:45	4° 8 37'37	19°07'43
retrograde	2075 May 03 05:40	27° 8 47'16	20 0000	retrograde	2076 Apr 13 08:45	8° 8 53'19	15 07 15
evening set	2075 May 05 06:17	27° 8 36'42		evening set	2076 Apr 15 12:00	8° 8 39'17	
desc. node	2075 May 12 17:45	24° 8 31'41		inferior conj	2076 Apr 23 17:43	4° 8 27'05	1°21'58
inferior conj	2075 May 14 06:24	23° 8 37'40	-0°26'44	minimum elong	2076 Apr 23 20:47	4° 8 21'49	1°20'57
minimum elong	2075 May 14 05:09	23° 8 39'31	0°26'15	min. Earth dist.	2076 Apr 26 17:25	2° 8 25'14	0.56538 AU
min. Earth dist.	2075 May 16 02:18	22° 8 32'15	0.55284 AU	desc. node	2076 Apr 28 14:47	1° 8 14'23	
morning rise	2075 May 23 02:17	19° 8 16'29			2076 Apr 30 23:27	30° ₹Ƴ	
direct	2075 May 27 01:56	18° 8 41'51		morning rise	2076 May 02 02:34	29° Y 31'36	
morning max el	2075 Jun 09 17:59	25° 8 25'27	23°53'32	direct	2076 May 07 02:29	28° Y ′33'22	
	2075 Jun 14 00:47	$\Pi^{\circ}0$			2076 May 13 05:29	9° 8	
asc. node	2075 Jul 01 11:14	28° Ⅲ 30′15		morning max el	2076 May 21 08:26	5° 8 52'09	25°31'45
	2075 Jul 02 04:47	0°©			2076 Jun 07 21:25	Π °0	
morning set	2075 Jul 04 00:47	3°549'07		asc. node	2076 Jun 17 08:16	18° Ⅲ 22'28	
				morning set	2076 Jun 17 12:27	18° Ⅱ 44'34	
superior conj	2075 Jul 11 01:18	18° © 56'12			2076 Jun 22 17:29	0 \circ \odot	
minimum elong	2075 Jul 10 22:58	18° 5 43'37					
max. Earth dist.	2075 Jul 13 03:35	23°526'07	1.33308 AU	superior conj	2076 Jun 24 11:45	3° 9 51'40	
	2075 Jul 16 06:29	$0^{\circ}\Omega$		minimum elong	2076 Jun 24 09:24	3° © 38'44	1°08'41

E4b 3i-4	2076 I 25 11.40	(°C0)10(1 225/2 ATT		2077 I 14 02:26	000	
max. Earth dist.	2076 Jun 25 11:40	6°902'26	1.32563 AU		2077 Jun 14 02:26	0°9	
evening rise	2076 Jul 01 13:37	19° © 01'33		evening rise	2077 Jun 15 20:56	3°545'48	
	2076 Jul 07 02:15	0°N			2077 Jun 29 21:52	0°N	
desc. node	2076 Jul 25 14:06	29° Ω 28′26		desc. node	2077 Jul 12 11:06	17° Ω 07'39	
	2076 Jul 26 00:02	0° m)		evening max el	2077 Jul 15 13:23	20° Ω 18'17	26°35'22
evening max el	2076 Aug 02 11:24	8° Mp 18'54	27°16'48	retrograde	2077 Jul 29 12:45	27° Ω 31'07	
retrograde	2076 Aug 16 07:05	15° Mp 34'16		evening set	2077 Aug 05 06:06	25° Ω 36′26	
evening set	2076 Aug 23 11:13	13°Mp 10'18		min. Earth dist.	2077 Aug 09 02:53	23° Ω 00'06	
min. Earth dist.	2076 Aug 27 01:28	10° Mp 21'24	0.62025 AU	inferior conj	2077 Aug 12 10:02	20° Ω 21'43	
inferior conj	2076 Aug 30 01:46	7° Mg 35′56		minimum elong	2077 Aug 12 13:56	20° Ω 13'51	4°43'12
minimum elong	2076 Aug 30 07:07	7° ™ 23'39	4°03'51	morning rise	2077 Aug 19 23:49	15° Ω 43'15	
morning rise	2076 Sep 06 04:33	2°M 35'14		direct	2077 Aug 22 10:09	15° Ω 21'32	
direct	2076 Sep 08 14:49	2° Mp 09'40		morning max el	2077 Aug 29 22:52	19° Ω 01'29	18°13'37
asc. node	2076 Sep 13 07:28	3° m 48'17		asc. node	2077 Aug 31 04:31	20° Ω 18′03	
morning max el	2076 Sep 15 11:35	5° Mp 37′44	17°54'02		2077 Sep 07 00:08	O° Mp	
morning set	2076 Oct 01 10:39	0° £ 38′25		morning set	2077 Sep 14 20:27	14° Mp 16'32	
	2076 Oct 01 02:10	0∘ ত			2077 Sep 23 06:08	0° ⊽	
superior conj	2076 Oct 12 05:58	19° ≙ 48'08	1°00'50	superior conj	2077 Sep 24 07:09	1° ≙ 53'51	1°26'30
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° M.		max. Earth dist.	2077 Oct 01 21:44	15° ≏ 15'17	1.41070 AU
max. Earth dist.	2076 Oct 19 13:31	2°M03'41	1.42902 AU	evening rise	2077 Oct 06 19:41	23° £ 25'53	
desc. node	2076 Oct 21 13:27	5°M18′26		desc. node	2077 Oct 08 10:28	26° £ 02'51	
evening rise	2076 Oct 26 15:32	13°M23'45			2077 Oct 10 22:00	0°M	
	2076 Nov 06 13:11	0° ∡ ¹			2077 Oct 31 12:54	0° ∡ ¹	
evening max el	2076 Nov 27 05:00	27° ∡ ¹28'41	21°46'27	evening max el	2077 Nov 09 20:45	11° √ 01'25	23°05'18
C	2076 Nov 29 22:29	6°0		retrograde	2077 Nov 20 02:21	17° ∡ ¹05'38	
retrograde	2076 Dec 06 07:48	2° ප් 54'17		evening set	2077 Nov 24 22:35	15° ∡ 106'13	
asc. node	2076 Dec 10 06:40	1° る 28'45		asc. node	2077 Nov 27 03:43	12° ∡ 751'38	
evening set	2076 Dec 10 15:37	1° る 11'37		inferior conj	2077 Nov 30 07:30	8° х 43'27	1°03'58
evening sec	2076 Dec 11 22:53	30°R ✓		minimum elong	2077 Nov 30 06:04	8° × ⁷ 48'24	1°03'23
inferior conj	2076 Dec 16 00:00	24° × 754'04	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° × ⁷ 34'33	0.07021110
min. Earth dist.	2076 Dec 16 02:54	24° × ⁷ 43'59	0.67751 AU	direct	2077 Dec 09 21:24	0° ₹ 51'03	
morning rise	2076 Dec 21 03:48	18° × 42'02	0.07731 AC	morning max el	2077 Dec 09 21:24 2077 Dec 18 15:58	5°×758'49	21°20'35
direct	2076 Dec 26 02:18	16° × 42 02		desc. node	2078 Jan 04 09:43	27° х 47'22	21 29 33
morning max el	2070 Dec 20 02:18 2077 Jan 05 01:38	22° ₹ 30'26	22°54'20	desc. Hode	2078 Jan 04 09:43 2078 Jan 05 21:54	27 メ 4 722	
morning max er	2077 Jan 03 01:38 2077 Jan 11 14:08	22 メ ・30 20	22 34 20	mamina sat	2078 Jan 19 05:12	0 3 20° る 20'36	
11-		7° る 52'54		morning set		20° ⊘ 2036	
desc. node	2077 Jan 17 12:41 2077 Feb 01 10:54	7 O 32 34 0° ≈		max. Earth dist.	2078 Jan 25 05:00		1.41968 AU
				max. Earm dist.	2078 Jan 26 01:48	1 ≈23 32	1.41908 AU
morning set	2077 Feb 08 12:03	11°≈21'42	1 20012 411		2070 F.1. 02.12.46	1.40 - 0.611.4	200 4157
max. Earth dist.	2077 Feb 13 01:43	19° ≈ 04'06	1.39913 AU	superior conj	2078 Feb 02 13:46	14°≈06'14	
	2077 Feb 19 06:31	0° ∀		minimum elong	2078 Feb 02 14:21	14°≈08'44	2°04'58
	2077 F. 1. 20. 10.22	20)(47)26	1056110		2078 Feb 11 12:02	0° ∀	
superior conj	2077 Feb 20 19:22	2°) (47'36		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° Υ 00'37	18°09'33
	2077 Mar 07 06:18	0°Υ 1° Ω 47142			2078 Mar 02 02:42	0°Υ 2° Ω 2<140	
asc. node	2077 Mar 08 05:58	1° Y 47'43		retrograde	2078 Mar 08 21:44	3° Y 26'49	
evening max el	2077 Mar 18 17:21	17° ℃ 05'46	18°28'37	evening set	2078 Mar 11 12:38	2° Y 56'34	
retrograde	2077 Mar 26 06:29	20° Y 48'42			2078 Mar 16 03:08	30° ₹	
evening set	2077 Mar 28 15:35	20° Y 27'41		inferior conj	2078 Mar 18 06:45	28°) €04'28	
inferior conj	2077 Apr 05 02:02	15° Y 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° Ƴ 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° Ƴ 12'37	0.58408 AU	morning rise	2078 Mar 25 03:52	22° 升 16′21	
morning rise	2077 Apr 12 17:25	10° Y 29′25		direct	2078 Mar 31 20:11	20° ℋ 07'09	
desc. node	2077 Apr 15 11:49	9° Y 23′38		desc. node	2078 Apr 02 08:52	20°) 13′37	
direct	2077 Apr 18 17:13	8° Y 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° Ƴ 37′26	26°50'49		2078 Apr 17 01:15	0 ° $\mathbf{\Upsilon}$	
	2077 May 14 01:50	9° 8			2078 May 07 18:41	9° 8	
	2077 May 31 05:12	$\Pi^{\circ}0$		morning set	2078 May 17 05:16	18° 8 11'58	
morning set	2077 Jun 01 22:32	3° Ⅲ 34′10		asc. node	2078 May 22 02:19	28° 8 33'39	
asc. node	2077 Jun 04 05:17	8° Ⅱ 25′07			2078 May 22 18:11	$\Pi^{\circ}0$	
				max. Earth dist.	2078 May 23 11:08	1° Ⅱ 32'32	1.32235 AU
superior conj	2077 Jun 08 23:30	18° Ⅱ 49′00	0°48'25				
minimum elong	2077 Jun 08 21:34	18° Ⅲ 38′23	0°48'03	superior conj	2078 May 24 10:51	3° Ⅱ 42′25	0°24'40
max. Earth dist.	2077 Jun 08 23:24	18° Ⅱ 48′28	1.32205 AU	minimum elong	2078 May 24 09:45	3° Ⅱ 36′24	0°24'26

	2070 M 21 07 20	100 T 27142			2070 M 00 10 50	100 4150	0001120
evening rise	2078 May 31 07:30	18° Ⅱ 37'43		superior conj	2079 May 08 19:59	18° 8 24'52	
	2078 Jun 05 21:37	0° ©		minimum elong	2079 May 08 20:03	18° 8 25'15	0°01'29
	2078 Jun 25 19:31	0°N	25022150	behind sun begin	2079 May 08 14:53	17° 8 57'12	
evening max el	2078 Jun 27 08:26	1° £ 32'07	25°23'59	behind sun end	2079 May 09 01:14	18° 8 53'19	
desc. node	2078 Jun 29 08:07	3° Ω 19'26		asc. node	2079 May 08 23:21	18° 8 43'06	
retrograde	2078 Jul 11 08:47	8° Ω 40'00			2079 May 14 04:08	0°II	
evening set	2078 Jul 17 02:03	7° Ω 23'45		evening rise	2079 May 15 19:20	3° ∏ 29′24	
min. Earth dist.	2078 Jul 21 20:27		0.57960 AU		2079 May 30 03:47	0°€	
inferior conj	2078 Jul 24 23:57	2° Ω 30'33		evening max el	2079 Jun 08 22:36	12° © 10'13	23°52'45
minimum elong	2078 Jul 24 23:52	2° Ω 30'42	4°58'50	desc. node	2079 Jun 16 05:09	17° © 29'21	
	2078 Jul 28 20:34	30° ₹ 5		retrograde	2079 Jun 22 16:29	19° © 04'18	
morning rise	2078 Aug 02 00:09	28° © 14'21		evening set	2079 Jun 26 23:25	18° © 23'47	
direct	2078 Aug 04 13:01	27° © 54'42		min. Earth dist.	2079 Jul 03 09:14	15° © 20'12	0.56230 AU
	2078 Aug 10 17:09	$0 ^{\circ} \Omega$		inferior conj	2079 Jul 05 17:37	13° © 54'14	-4°36'18
morning max el	2078 Aug 13 02:57	1° Ω 57'33	18°53'47	minimum elong	2079 Jul 05 12:08	14° © 02'39	4°35'30
asc. node	2078 Aug 18 01:34	7° Ω 50'31		morning rise	2079 Jul 14 03:29	9° © 56'09	
morning set	2078 Aug 29 16:45	28° Ω 25'39		direct	2079 Jul 16 20:52	9° © 37'07	
	2078 Aug 30 11:57	0° m		morning max el	2079 Jul 26 20:55	14° © 15'25	19°55'26
				asc. node	2079 Aug 04 22:38	26°\$10'55	
superior conj	2078 Sep 07 04:10	14° m 58'35	1°40'51		2079 Aug 07 03:34	$0^{\circ}\Omega$	
minimum elong	2078 Sep 07 06:10	15° Mp 08'12	1°40'44	morning set	2079 Aug 13 20:15	12° Ω 56'19	
max. Earth dist.	2078 Sep 14 01:55	27° m) 44'27	1.39035 AU	C	C		
	2078 Sep 15 08:29	0∘ ಹ		superior conj	2079 Aug 21 15:38	28° Ω 46'41	1°45'40
evening rise	2078 Sep 17 23:46	ა — 4° Ω 34'58		minimum elong	2079 Aug 21 15:50	28° Ω 47'37	1°45'39
desc. node	2078 Sep 25 07:28	16° ≏ 40'49		minimum crong	2079 Aug 22 06:22	0°m)	1 1337
dese. Hode	2078 Oct 04 00:53	0°M		max. Earth dist.	2079 Aug 27 06:46	9° m 43'50	1.37040 AU
evening max el	2078 Oct 04 00:33 2078 Oct 23 09:40	24°M38'17	24°24'54	evening rise	2079 Aug 31 02:38	16° Mp 48'18	1.57040 AC
evening max er		0°×7	24 24 34	evening rise	•	0° ⊽	
	2078 Oct 30 05:42	0 x . 1° x 15'14		4 4-	2079 Sep 07 18:00	0 <u>ა.</u> 7° ჲ 07'40	
retrograde	2078 Nov 03 17:08			desc. node	2079 Sep 12 04:30		
. ,	2078 Nov 07 18:32	30°RM			2079 Sep 28 10:45	0°M	25020100
evening set	2078 Nov 09 03:12	28°M59'12	0.63563.444	evening max el	2079 Oct 05 21:46	8°M18'36	25°38'08
min. Earth dist.	2078 Nov 13 19:38	23°M37'01	0.67567 AU	retrograde	2079 Oct 18 03:21	15°M18'54	
asc. node	2078 Nov 14 00:47	23°M19'45		evening set	2079 Oct 24 03:46	12°M48'05	
inferior conj	2078 Nov 14 13:59	22°M35'29	0°11'21	min. Earth dist.	2079 Oct 28 12:26	8°M01'10	0.66975 AU
minimum elong	2078 Nov 14 13:42	22°M36'25	0°11'14	inferior conj	2079 Oct 29 17:42	6°M27'43	
transit middle	2078 Nov 14 13:42	22°M36'25	0°11'14	minimum elong	2079 Oct 29 18:51	6°M24'01	0°44'21
transit begin	2078 Nov 14 11:44	22°M43'04		asc. node	2079 Oct 31 21:51	3°M46'52	
transit end	2078 Nov 14 15:41	22°M29'48		morning rise	2079 Nov 04 10:12	0° ™ 32'33	
morning rise	2078 Nov 20 00:14	16°M32'04			2079 Nov 05 10:17	30°Ŗ 죠	
direct	2078 Nov 23 19:00	15° M ₊10'07		direct	2079 Nov 07 17:39	29° ≏ 29'21	
morning max el	2078 Dec 01 13:35	19°M37'37	20°15'04		2079 Nov 10 02:52	0°M	
	2078 Dec 09 23:29	0° ∡ 7		morning max el	2079 Nov 14 19:00	3°M26'55	19°14'34
desc. node	2078 Dec 22 06:45	18° ₰ 01'51			2079 Dec 03 16:11	0° ∡ ¹	
morning set	2078 Dec 29 02:39	28° ₹ 29'14		morning set	2079 Dec 08 04:32	7° ∡ ¹00′22	
	2078 Dec 30 02:05	0°ರ		desc. node	2079 Dec 09 03:47	8° ∡ ³30'49	
max. Earth dist.	2079 Jan 08 09:49	14° පි 41'35	1.43657 AU	max. Earth dist.	2079 Dec 22 00:52	28° ∡ ³39'57	1.44760 AU
					2079 Dec 22 21:08	8°0	
superior conj	2079 Jan 14 06:48	24° る 14'21	-1°58'43				
minimum elong	2079 Jan 14 02:05	23° る 54'55	1°58'29	superior conj	2079 Dec 24 22:29	3° る 15′27	-1°33'38
	2079 Jan 17 18:02	0° ≈		minimum elong	2079 Dec 24 13:44	2° る 40'45	1°32'47
evening rise	2079 Jan 27 00:05	15° ≈ 49'17		evening rise	2080 Jan 08 12:17	26° る 52'19	
S	2079 Feb 04 05:57	0°) €		, and the second	2080 Jan 10 09:42	0° ≈	
asc. node	2079 Feb 10 00:04	8°) 51'46		asc. node	2080 Jan 27 21:08	26°≈18'40	
evening max el	2079 Feb 13 15:20	13°) 12′53	18°09'52	evening max el	2080 Jan 28 03:38	26°≈35'24	18°28'50
retrograde	2079 Feb 20 02:31	16°) €37'08	10 07 52	evening man er	2080 Feb 02 07:17	0° ∀	10 20 30
evening set	2079 Feb 22 02:31 2079 Feb 22 22:43	15° ¥ 56′21		retrograde	2080 Feb 03 16:28	0°) 10′32	
inferior conj	2079 Mar 01 04:17	10°\(\frac{1}{43}\)'52	3°42'09	retrograde	2080 Feb 05 10:25	30°R≈	
minimum elong	2079 Mar 01 04:17	10° X 42'28	3°42'08	evening set	2080 Feb 06 18:04	29°≈18'23	
•		7° H 48'51					2920129
min. Earth dist.	2079 Mar 03 22:55		0.62629 AU	inferior conj	2080 Feb 12 14:36	23°≈47'00	3°39'38
morning rise	2079 Mar 07 09:48	4°) 43'13		minimum elong	2080 Feb 12 13:28	23°≈50'18	3°39'34
direct	2079 Mar 14 08:30	2° ★ 06'34		min. Earth dist.	2080 Feb 14 17:51	21°≈17'15	0.64442 AU
desc. node	2079 Mar 20 05:56	3°) 43′54	27040155	morning rise	2080 Feb 18 08:20	17°≈39'13	
morning max el	2079 Mar 28 08:13		27°48'55	direct	2080 Feb 25 04:20	14°≈49'02	
	2079 Apr 12 22:05	$^{\circ \gamma}$		desc. node	2080 Mar 06 02:58	19°≈22'19	0.7700.010 :
	2079 Apr 30 00:36	0° 8		morning max el	2080 Mar 09 17:21	22°≈40'07	27°23'34
morning set	2079 May 01 06:29	2° 8 29'48	1.00650 :==		2080 Mar 16 05:03	0°) €	
max. Earth dist.	2079 May 06 18:56	14° 8 00'37	1.32669 AU		2080 Apr 05 03:48	$0^{\circ}\mathbf{\Upsilon}$	

morning set	2080 Apr 13 23:30	16° Ƴ 19'34		morning set	2081 Mar 28 04:43	29°) 30′02	
max. Earth dist.	2080 Apr 18 19:04	26° Ƴ 01'47	1.33532 AU	J	2081 Mar 28 11:04	0° Y	
	2080 Apr 20 16:46	9° 8		max. Earth dist.	2081 Apr 01 08:03	7° Y 28′56	1.34842 AU
	2000 4 22 01.02	20050125	0920100		2001 A 05 22.42	16° Ƴ 51'52	0057100
superior conj minimum elong	2080 Apr 22 01:03 2080 Apr 22 02:31	2° 8 50'25 2° 8 58'10		superior conj minimum elong	2081 Apr 05 23:43 2081 Apr 06 02:36	16° γ 51′52 17° Υ 06'44	-0°56'35
asc. node	2080 Apr 24 20:24	8° 8 49'34	0 28 31	asc. node	2081 Apr 11 17:28	28° Y '48'37	0 3033
evening rise	2080 Apr 29 06:37	18° 8 14'48		asc. node	2081 Apr 12 07:09	0° 8	
evening rise	2080 May 05 02:35	0°II		evening rise	2081 Apr 13 15:20	2° 8 46'59	
evening max el	2080 May 20 14:13	22° I I40'05	22°16'43	evening rise	2081 Apr 29 09:12	0°Ⅱ	
desc. node	2080 Jun 02 02:11	29° I I02'48	22 10 43	evening max el	2081 May 02 14:29	3° Ⅱ 32'30	20°49'43
retrograde	2080 Jun 02 12:01	29° I I03'11		retrograde	2081 May 14 01:20	9° П 06'59	20 19 13
evening set	2080 Jun 05 09:51	28° ∏ 44'27		evening set	2081 May 16 04:33	8°II56'06	
min. Earth dist.	2080 Jun 13 20:34	25° Ⅱ 06'29	0.55142 AU	desc. node	2081 May 19 23:11	7° ∏ 48'51	
inferior conj	2080 Jun 14 18:01	24° Ⅲ 36′15	-3°25'52	inferior conj	2081 May 25 11:44	4° Ⅱ 58'14	-1°36'11
minimum elong	2080 Jun 14 10:05	24° Ⅱ 47'26	3°23'41	minimum elong	2081 May 25 07:12	5° Ⅱ 04'41	1°34'33
morning rise	2080 Jun 23 12:13	20° Ⅱ 44'21		min. Earth dist.	2081 May 26 08:59	4° Ⅲ 27'57	0.54944 AU
direct	2080 Jun 26 12:07	20° Ⅲ 24′09		morning rise	2081 Jun 03 09:29	0° Ⅱ 52'44	
morning max el	2080 Jul 08 03:24	25° Ⅱ 49'31	21°17'27	direct	2081 Jun 06 21:31	0° Ⅱ 26′19	
	2080 Jul 12 00:50	0 \circ \odot		morning max el	2081 Jun 19 23:55	6° Ⅱ 43'39	22°54'43
asc. node	2080 Jul 21 19:40	15° © 07'48			2081 Jul 06 08:07	0 \circ \odot	
morning set	2080 Jul 28 04:25	27° 5 41'20		asc. node	2081 Jul 08 16:42	4° © 32'15	
	2080 Jul 29 07:07	$0^{\circ}\Omega$		morning set	2081 Jul 12 15:18	12° © 35'11	
gunariar agni	2080 Aug 04 13:17	13°Ω05'38	1942'45	superior conj	2081 Jul 19 17:52	27° © 45'44	1°33'35
superior conj minimum elong	2080 Aug 04 13:17 2080 Aug 04 12:04	13° Ω 59'20		minimum elong	2081 Jul 19 17:32 2081 Jul 19 15:47	27° © 34'39	1°33'23
max. Earth dist.	2080 Aug 04 12:04 2080 Aug 08 17:31		1.35290 AU	minimum clong	2081 Jul 20 19:08	27 3 3439	1 33 23
evening rise	2080 Aug 13 00:04	29° £ 53'53'	1.55270 AC	max. Earth dist.	2081 Jul 22 13:08	3° Ω 41'05	1.33909 AU
evening rise	2080 Aug 13 01:07	0° m		evening rise	2081 Jul 27 11:30	13° Ω 43'07	1.55707710
desc. node	2080 Aug 29 01:32	27° Mp 17'20		evening rise	2081 Aug 05 06:04	0° m)	
acco. noue	2080 Aug 30 20:56	0° ರ		desc. node	2081 Aug 15 22:32	17° m) 02'12	
evening max el	2080 Sep 17 09:57	21° £ 56′24	26°37'26		2081 Aug 25 19:57	0° ರ	
retrograde	2080 Sep 30 08:24	29° ₽ 10'13		evening max el	2081 Aug 30 21:53	5° £ 22'59	27°15'25
evening set	2080 Oct 06 22:14	26° ≏ 29'05		retrograde	2081 Sep 13 08:02	12° ≏ 41'47	
min. Earth dist.	2080 Oct 10 23:38	22° ≏ 18'43	0.66038 AU	evening set	2081 Sep 20 08:11	9° ≏ 58'13	
inferior conj	2080 Oct 12 16:38	20° £ 16′20	-1°43'09	min. Earth dist.	2081 Sep 24 03:05	6° £ 23'40	0.64742 AU
minimum elong	2080 Oct 12 19:24	20° £ 08'06	1°42'02	inferior conj	2081 Sep 26 08:36	3° ჲ 57'16	-2°41'27
asc. node	2080 Oct 17 18:54	15° ≙ 06'55		minimum elong	2081 Sep 26 12:53	3° ≏ 45'33	2°39'55
morning rise	2080 Oct 18 17:08	14° ≙ 32'20			2081 Sep 30 08:39	30°R, Mp	
direct	2080 Oct 21 15:23	13° ≏ 44′20		morning rise	2081 Oct 02 18:33	28° m 27'28	
morning max el	2080 Oct 28 06:41	17° ≏ 22'29	18°29'50	asc. node	2081 Oct 04 15:55	27° m 53'52	
	2080 Nov 06 17:05	0° M,		direct	2081 Oct 05 10:00	27° m 50'52	
morning set	2080 Nov 17 06:59	16° ™ 48′29			2081 Oct 10 11:25	0∘ ⊽	
desc. node	2080 Nov 25 00:49	29°M09'26		morning max el	2081 Oct 11 22:04	1° ≏ 18'52	18°01'53
	2080 Nov 25 13:35	0°⊀		morning set	2081 Oct 29 14:35	28° ჲ 02'54	
					2081 Oct 30 18:33	0° M	
superior conj	2080 Dec 03 00:06	11° ∡ ⁴43′29		desc. node	2081 Nov 11 21:52	19° M 54'29	
minimum elong	2080 Dec 02 17:33	11° 🖈 17'45			200131 12 00 02	200 m 2011 4	0002100
max. Earth dist.	2080 Dec 03 19:32	12° ₹ 59'48	1.45154 AU	superior conj	2081 Nov 12 09:02	20°M39'14	
	2080 Dec 14 15:14	0°궁		minimum elong	2081 Nov 12 08:39	20°M37'42	0~03'0'/
evening rise	2080 Dec 19 01:04	6°る57'54	0.0	behind sun begin	2081 Nov 11 22:15	19°M56'01	
greatest brilliancy	2080 Dec 28 12:31	21°る55'41 0°≈	-0.8m	behind sun end	2081 Nov 12 19:03	21°M19'20	1 44000 411
evening max el	2081 Jan 02 19:29 2081 Jan 10 13:20	0 ≈ 10°≈02'23	19°05'26	max. Earth dist.	2081 Nov 16 14:17 2081 Nov 18 06:26	27° ™ 21'44 0° ҂	1.44808 AU
asc. node	2081 Jan 13 18:11	10 ≈02 23 12°≈44'39	19 03 20	evening rise	2081 Nov 28 17:42	16° √ 17'38	
retrograde	2081 Jan 17 11:44	12 ≈44 39 13°≈59'07		evening rise	2081 Nov 28 17:42 2081 Dec 07 16:18	10 × 17 38	
evening set	2081 Jan 20 19:37	13 ≈3907 12°≈54'43		greatest brilliancy	2081 Dec 12 17:00	7° る 33'16	-0.6m
inferior conj	2081 Jan 26 10:02	7°≈06'43	3°22'16	evening max el	2081 Dec 24 18:40	7 ර 3310 23° ර 31'51	19°58'00
minimum elong	2081 Jan 26 07:52	7°≈13'36	3°21'54	asc. node	2081 Dec 24 18:40 2081 Dec 31 15:12	27°る55'35	1, 2000
min. Earth dist.	2081 Jan 27 21:59	5°≈12'53	0.65877 AU	retrograde	2082 Jan 01 09:21	27° る 58'46	
morning rise	2081 Jan 31 19:49	0°≈55'00		evening set	2082 Jan 05 01:03	26°る40'46	
<i>5</i>	2081 Feb 01 22:53	30°R₹		inferior conj	2082 Jan 10 11:42	20° る 38'55	2°53'42
direct	2081 Feb 07 06:42	28° පි 05'11		minimum elong	2082 Jan 10 09:06	20° る 47'37	2°53'01
	2081 Feb 13 05:24	0° ≈		min. Earth dist.	2082 Jan 11 09:43	19° る 25'19	0.66913 AU
morning max el	2081 Feb 20 03:16	5° ≈ 40'45	26°28'20	morning rise	2082 Jan 15 16:55	14° る 25'34	
desc. node	2081 Feb 21 00:00	6° ≈ 33'57		direct	2082 Jan 21 14:54	11° る 47'15	
	2081 Mar 10 20:11	0°) €		morning max el	2082 Feb 02 12:06	18° る 52'39	25°12'04

						_	
desc. node	2082 Feb 07 21:04	24° る 52'27		desc. node	2083 Jan 25 18:08	13° る 58'33	
	2082 Feb 11 22:29	0° ≈			2083 Feb 06 00:15	0° ≈	
	2082 Mar 03 22:08	0° ∀		morning set	2083 Feb 20 07:14	22° ≈ 55'31	
morning set	2082 Mar 10 17:18	11°)(47'28		max. Earth dist.	2083 Feb 24 04:31	29° ≈ 40′32	1.38667 AU
max. Earth dist.	2082 Mar 14 09:28	18°) 31'13	1.36592 AU		2083 Feb 24 08:55	0° ∀	
	2082 Mar 20 08:49	0°Υ				• / (
	2002 Wai 20 00.47	0 1		superior conj	2083 Mar 03 13:44	13° ¥ 10′01	1046'16
aumariar aani	2002 Mar. 20, 12:00	0° Υ 21'27	1022141			13°) (1001	
superior conj	2082 Mar 20 13:09			minimum elong	2083 Mar 03 17:58		1 43 32
minimum elong	2082 Mar 20 17:10	0° Υ 41'18	1°23'05		2083 Mar 12 06:47	0° Υ	
evening rise	2082 Mar 28 19:21	16° Y 59′23		evening rise	2083 Mar 12 16:03	0° Y 45′15	
asc. node	2082 Mar 29 14:30	18° Ƴ 35'39		asc. node	2083 Mar 16 11:32	8° Ƴ 05'47	
	2082 Apr 04 12:50	9° 8		evening max el	2083 Mar 29 01:27	27° Ƴ 13′08	18°48'43
evening max el	2082 Apr 15 02:35	15° 8 03'21	19°39'26		2083 Apr 01 17:42	$8^{\circ 0}$	
retrograde	2082 Apr 24 19:42	19° 8 44'51		retrograde	2083 Apr 06 06:08	1° 8 12'25	
evening set	2082 Apr 26 20:25	19° 8 33'28		evening set	2083 Apr 08 11:55	0° 8 55'43	
inferior conj	2082 May 05 13:18	15° 8 30'26	0°22'20	Ü	2083 Apr 11 00:51	30° ₹ Υ	
minimum elong	2082 May 05 14:16	15° 8 28'55	0°21'59	inferior conj	2083 Apr 16 09:15	26° Y 36'05	1°59'10
desc. node	2082 May 06 20:13	14° 8 41'39	0 21 3)	minimum elong	2083 Apr 16 13:05	26° Y 29'04	1°58'01
	•	13° 8 59'38	0.55711 AU	•	-	20 γ 29 04 24° Υ 13'53	
min. Earth dist.	2082 May 07 23:12		0.55/11 AU	min. Earth dist.	2083 Apr 19 15:45		0.57276 AU
morning rise	2082 May 14 05:30	10° 8 54'43		desc. node	2083 Apr 23 17:15	21° Y 47'03	
direct	2082 May 18 14:55	10° 8 11'33		morning rise	2083 Apr 24 11:08	21° Y 26'31	
morning max el	2082 Jun 01 14:47	17° 8 12'53	24°36'41	direct	2083 Apr 29 22:04	20° Ƴ 14'11	
	2082 Jun 12 01:03	Π $^{\circ}0$		morning max el	2083 May 14 06:02	27° Ƴ 43'52	26°08'34
asc. node	2082 Jun 25 13:44	24° Ⅱ 16′10			2083 May 16 11:12	$8^{\circ 0}$	
morning set	2082 Jun 27 03:07	27° Ⅲ 31'33			2083 Jun 05 10:02	$\Pi^{\circ}0$	
	2082 Jun 28 07:04	0°ಅ		morning set	2083 Jun 11 14:19	12° Ⅱ 25'11	
				asc. node	2083 Jun 12 10:47	14° Ⅱ 13'38	
superior conj	2082 Jul 04 02:46	12° © 37'49	1°19'17	use. Itsue	2003 tan 12 10.17	2.550	
minimum elong	2082 Jul 04 00:22	12°924'45	1°18'57	superior conj	2083 Jun 18 14:00	27° I I35'00	1°00'45
•						27° I I22'44	
max. Earth dist.	2082 Jul 05 17:17	16°906'31	1.32937 AU	minimum elong	2083 Jun 18 11:46		1°00'21
evening rise	2082 Jul 11 09:00	28° © 00'37		max. Earth dist.	2083 Jun 19 03:23	28° Ⅱ 48'30	1.32364 AU
	2082 Jul 12 08:35	0 $^{\circ}$ Ω			2083 Jun 19 16:25	0°€	
	2082 Jul 29 11:20	O° My		evening rise	2083 Jun 25 13:30	12° © 37'46	
desc. node	2082 Aug 02 19:32	6° Mp 10′59			2083 Jul 04 11:45	0 $^{\circ}\Omega$	
evening max el	2082 Aug 13 08:05	18° m 25'51	27°25'33	desc. node	2083 Jul 20 16:31	24° Ω 28'41	
retrograde	2082 Aug 27 01:27	25° Mp 43'18			2083 Jul 25 16:30	0° m y	
evening set	2082 Sep 03 06:18	23°Mp08'38		evening max el	2083 Jul 26 14:02	0° Mp 52′14	27°03'16
min. Earth dist.	2082 Sep 06 20:58	20° M 05'26	0.63103 AU	retrograde	2083 Aug 09 11:33	8° Mp 05'54	
inferior conj	2082 Sep 09 14:51	17° m 23′25	-3°36'39	evening set	2083 Aug 16 12:30	5° m 53'14	
minimum elong	2082 Sep 09 20:08	17° Mp 10'24	3°35'08	min. Earth dist.	2083 Aug 20 04:20	3° m 11'26	0.61183 AU
morning rise	2082 Sep 16 11:19	12° m) 10'57		inferior conj	2083 Aug 23 08:13	0°m/26'59	
direct	2082 Sep 18 22:36	11° mp 42'15		minimum elong	2083 Aug 23 13:14	0° m 16'04	
asc. node	2082 Sep 16 22:50 2082 Sep 21 12:57	12° Mp 14'42		minimum ciong	2083 Aug 23 20:39	30°RΩ	7 22 30
			17951120	mamina rica	•	25° Ω 35'05	
morning max el	2082 Sep 25 14:13	15° Mp 08'15	17 31 30	morning rise	2083 Aug 30 15:41		
	2082 Oct 05 22:37	0∘ ⊽		direct	2083 Sep 02 01:39	25° Ω 11'22	
morning set	2082 Oct 11 22:27	10° ≙ 27'03		asc. node	2083 Sep 08 10:00	28° Ω 01'28	
	2082 Oct 23 06:36	0°M₊		morning max el	2083 Sep 09 04:07	28° Ω 43'28	17°59'48
					2083 Sep 10 09:23	0° m	
superior conj	2082 Oct 23 17:16	0°M44'35	0°40'33	morning set	2083 Sep 25 00:21	23° m 42'49	
minimum elong	2082 Oct 23 21:04	1°M00'26	0°40'02		2083 Sep 28 10:19	0∘ ত	
desc. node	2082 Oct 29 18:53	10°M41'53					
max. Earth dist.	2082 Oct 30 06:28	11°M28'30	1.43770 AU	superior conj	2083 Oct 05 04:29	12° ჲ 09'05	1°13'12
evening rise	2082 Nov 08 01:59	25°M21'45		minimum elong	2083 Oct 05 08:57	12° ≏ 28'41	1°12'42
Č	2082 Nov 11 02:24	0° ⊼		max. Earth dist.	2083 Oct 12 18:17	25° £ 05'29	1.42175 AU
				man. Danin and			12170110
evening max el	2082 Dec 01 19:23	U°7			2083 Oct 15 18:03	()* III.	
•	2082 Dec 01 19:23	0°る 7°る02'45	21°04'01	desc node	2083 Oct 15 18:03	0°M 1°m 28220	
retrograde	2082 Dec 07 18:36	7° る 02'45	21°04'01	desc. node	2083 Oct 16 15:53	1°M28'20	
	2082 Dec 07 18:36 2082 Dec 16 07:03	7° ට 02'45 12°ට5'44	21°04'01	desc. node evening rise	2083 Oct 16 15:53 2083 Oct 18 19:02	1°M28'20 4°M53'11	
asc. node	2082 Dec 07 18:36 2082 Dec 16 07:03 2082 Dec 18 12:12	7°る02'45 12°る05'44 11°る38'27	21°04'01	evening rise	2083 Oct 16 15:53 2083 Oct 18 19:02 2083 Nov 04 10:30	1°M28'20 4°M53'11 0°⊀	0001012
evening set	2082 Dec 07 18:36 2082 Dec 16 07:03 2082 Dec 18 12:12 2082 Dec 20 08:25	7°る02'45 12°る05'44 11°る38'27 10°る32'36		evening rise evening max el	2083 Oct 16 15:53 2083 Oct 18 19:02 2083 Nov 04 10:30 2083 Nov 20 13:08	1°M28'20 4°M53'11 0°⊀ 20°⊀34'51	22°19'34
evening set inferior conj	2082 Dec 07 18:36 2082 Dec 16 07:03 2082 Dec 18 12:12 2082 Dec 20 08:25 2082 Dec 25 17:12	7°る02'45 12°る05'44 11°る38'27 10°る32'36 4°る20'00	2°16'25	evening rise evening max el retrograde	2083 Oct 16 15:53 2083 Oct 18 19:02 2083 Nov 04 10:30 2083 Nov 20 13:08 2083 Nov 30 03:02	1°M28'20 4°M53'11 0°♂ 20°♂34'51 26°♂16'35	22°19'34
evening set	2082 Dec 07 18:36 2082 Dec 16 07:03 2082 Dec 18 12:12 2082 Dec 20 08:25	7°る02'45 12°る05'44 11°る38'27 10°る32'36	2°16'25	evening rise evening max el	2083 Oct 16 15:53 2083 Oct 18 19:02 2083 Nov 04 10:30 2083 Nov 20 13:08	1°M28'20 4°M53'11 0°⊀ 20°⊀34'51	22°19'34
evening set inferior conj	2082 Dec 07 18:36 2082 Dec 16 07:03 2082 Dec 18 12:12 2082 Dec 20 08:25 2082 Dec 25 17:12	7°る02'45 12°る05'44 11°る38'27 10°る32'36 4°る20'00	2°16'25	evening rise evening max el retrograde	2083 Oct 16 15:53 2083 Oct 18 19:02 2083 Nov 04 10:30 2083 Nov 20 13:08 2083 Nov 30 03:02	1°M28'20 4°M53'11 0°⊀ 20°⊀34'51 26°⊀16'35	22°19'34
evening set inferior conj minimum elong	2082 Dec 07 18:36 2082 Dec 16 07:03 2082 Dec 18 12:12 2082 Dec 20 08:25 2082 Dec 25 17:12 2082 Dec 25 14:41	7°G02'45 12°G05'44 11°G38'27 10°G32'36 4°G20'00 4°G28'36	2°16'25 2°15'34	evening rise evening max el retrograde evening set	2083 Oct 16 15:53 2083 Oct 18 19:02 2083 Nov 04 10:30 2083 Nov 20 13:08 2083 Nov 30 03:02 2083 Dec 04 16:00	1°M28'20 4°M53'11 0° ₹ 20° ₹34'51 26° ₹16'35 24° ₹26'51	22°19'34 1°32'06
evening set inferior conj minimum elong	2082 Dec 07 18:36 2082 Dec 16 07:03 2082 Dec 18 12:12 2082 Dec 20 08:25 2082 Dec 25 17:12 2082 Dec 25 14:41 2082 Dec 26 02:46	7°G02'45 12°G05'44 11°G38'27 10°G32'36 4°G20'00 4°G28'36 3°G47'02	2°16'25 2°15'34	evening rise evening max el retrograde evening set asc. node	2083 Oct 16 15:53 2083 Oct 18 19:02 2083 Nov 04 10:30 2083 Nov 20 13:08 2083 Nov 30 03:02 2083 Dec 04 16:00 2083 Dec 05 09:15	1°M28'20 4°M53'11 0° ₹ 20° ₹ 34'51 26° ₹ 16'35 24° ₹ 26'51 23° ₹ 48'54	
evening set inferior conj minimum elong min. Earth dist.	2082 Dec 07 18:36 2082 Dec 16 07:03 2082 Dec 18 12:12 2082 Dec 20 08:25 2082 Dec 25 17:12 2082 Dec 25 14:41 2082 Dec 26 02:46 2082 Dec 29 00:53	7°る02'45 12°る05'44 11°る38'27 10°る32'36 4°る20'00 4°る28'36 3°る47'02 30°8メ 28°メ 26'58	2°16'25 2°15'34	evening rise evening max el retrograde evening set asc. node inferior conj	2083 Oct 16 15:53 2083 Oct 18 19:02 2083 Nov 04 10:30 2083 Nov 20 13:08 2083 Nov 30 03:02 2083 Dec 04 16:00 2083 Dec 05 09:15 2083 Dec 10 00:28 2083 Dec 09 22:32	1°M28'20 4°M53'11 0° ₹ 20° ₹ 34'51 26° ₹ 16'35 24° ₹ 26'51 23° ₹ 48'54 18° ₹ 06'53	1°32'06
evening set inferior conj minimum elong min. Earth dist.	2082 Dec 07 18:36 2082 Dec 16 07:03 2082 Dec 18 12:12 2082 Dec 20 08:25 2082 Dec 25 17:12 2082 Dec 25 14:41 2082 Dec 26 02:46 2082 Dec 29 00:53 2082 Dec 30 20:46 2083 Jan 05 04:04	7°る02'45 12°る05'44 11°る38'27 10°る32'36 4°る20'00 4°る28'36 3°る47'02 30°ほメ 28° 🗷 06'58 25° 🗷 47'40	2°16'25 2°15'34	evening rise evening max el retrograde evening set asc. node inferior conj minimum elong min. Earth dist.	2083 Oct 16 15:53 2083 Oct 18 19:02 2083 Nov 04 10:30 2083 Nov 20 13:08 2083 Nov 30 03:02 2083 Dec 04 16:00 2083 Dec 05 09:15 2083 Dec 10 00:28 2083 Dec 09 22:32 2083 Dec 09 22:45	1°M28'20 4°M53'11 0° \$\mathrightarrow{\pi}\$ 20° \$\mathrightarrow{\pi}\$34'51 26° \$\mathrightarrow{\pi}\$16'35 24° \$\mathrightarrow{\pi}\$26'51 23° \$\mathrightarrow{\pi}\$48'54 18° \$\mathrightarrow{\pi}\$13'36 18° \$\mathrightarrow{\pi}\$12'51	1°32'06 1°31'21
evening set inferior conj minimum elong min. Earth dist.	2082 Dec 07 18:36 2082 Dec 16 07:03 2082 Dec 18 12:12 2082 Dec 20 08:25 2082 Dec 25 17:12 2082 Dec 25 14:41 2082 Dec 26 02:46 2082 Dec 29 00:53 2082 Dec 30 20:46	7°る02'45 12°る05'44 11°る38'27 10°る32'36 4°る20'00 4°る28'36 3°る47'02 30°8メ 28°メ 26'58	2°16'25 2°15'34 0.67555 AU	evening rise evening max el retrograde evening set asc. node inferior conj minimum elong	2083 Oct 16 15:53 2083 Oct 18 19:02 2083 Nov 04 10:30 2083 Nov 20 13:08 2083 Nov 30 03:02 2083 Dec 04 16:00 2083 Dec 05 09:15 2083 Dec 10 00:28 2083 Dec 09 22:32	1°M28'20 4°M53'11 0° \$\mathrightarrow{\sigma}\) 20° \$\mathrightarrow{\sigma}\) 16'35 24° \$\mathrightarrow{\sigma}\) 26'51 23° \$\mathrightarrow{\sigma}\) 48'54 18° \$\mathrightarrow{\sigma}\) 06'53 18° \$\mathrightarrow{\sigma}\) 13'36	1°32'06 1°31'21

morning max el	2083 Dec 29 07:39	15° ∡ 33′00	22°17'20		2084 Dec 11 21:42	0° ∡ ¹	
	2084 Jan 10 00:48	0°ප		desc. node	2084 Dec 29 12:11	23° ҂ ¹42'09	
desc. node	2084 Jan 12 15:09	3°₹38'11			2085 Jan 02 16:56	0°ರ	
	2084 Jan 30 01:07	0° ≈		morning set	2085 Jan 09 23:33	11° る 11'33	
morning set	2084 Jan 31 16:52	2° ≈ 40′18		max. Earth dist.	2085 Jan 18 05:34	24° る 20'33	1.42751 AU
max. Earth dist.	2084 Feb 06 01:35	11° ≈ 32'32	1.40820 AU		2085 Jan 21 16:11	0° ≈	
superior conj	2084 Feb 13 20:40	25° ≈ 05'04	-2°01'24	superior conj	2085 Jan 25 04:43	5° ≈ 54'26	-2°04'26
minimum elong	2084 Feb 13 23:19	25°≈16'55	2°01'19	minimum elong	2085 Jan 25 03:13	5° ≈ 48'05	2°04'25
	2084 Feb 16 14:00	0° ∀		evening rise	2085 Feb 05 21:55	26° ≈ 23'44	
evening rise	2084 Feb 24 02:13	13° ¥ 56′09			2085 Feb 07 22:19	0° ∀	
asc. node	2084 Mar 02 08:34	27° ₩ 12'31		asc. node	2085 Feb 17 05:38	15°) 48′22	
	2084 Mar 04 00:13	0 ° Υ		evening max el	2085 Feb 22 19:07	22° 升 56′20	18°07'15
evening max el	2084 Mar 11 08:01	9° Ƴ 53'37	18°18'05	retrograde	2085 Mar 01 09:32	26°) €20'21	
retrograde	2084 Mar 18 11:46	13° Ƴ 27'24		evening set	2085 Mar 04 02:40	25°) 45'45	
evening set	2084 Mar 20 23:33	13° Ƴ 02'30		inferior conj	2085 Mar 10 14:57	20°) 44'32	3°34'50
inferior conj	2084 Mar 28 02:32	8° Y 22'03	3°02'29	minimum elong	2085 Mar 10 16:37	20°) 40′25	3°34'41
minimum elong	2084 Mar 28 06:02	8° Ƴ 14'33	3°01'47	min. Earth dist.	2085 Mar 13 17:08	17°) 43′01	0.61454 AU
min. Earth dist.	2084 Mar 31 12:44	5° Ƴ 27'54	0.59308 AU	morning rise	2085 Mar 17 04:58	14°) 49′56	
morning rise	2084 Apr 04 10:02	2° Y 45'10		direct	2085 Mar 24 01:00	12°) €27'51	
desc. node	2084 Apr 09 14:19	1° Y ′00′13		desc. node	2085 Mar 27 11:22	13°) €00'47	
direct	2084 Apr 10 18:03	0° Υ 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° Υ 42'28	27°15'29	morning mun vi	2085 Apr 15 12:01	0°Υ	2, ., 51
morning man vi	2084 May 11 07:21	0°8	2, 102,		2085 May 04 05:27	0°8	
morning set	2084 May 25 23:12	27° 8 10'02		morning set	2085 May 10 03:52	11° 8 39'54	
morning sec	2084 May 27 07:30	0°II		max. Earth dist.	2085 May 16 02:23	24° 8 14'23	1.32370 AU
asc. node	2084 May 29 07:51	4° Ⅱ 19'00		asc. node	2085 May 16 02:25 2085 May 16 04:54	24° 8 28'04	1.52570710
max. Earth dist.	2084 Jun 01 15:43	11° II 35'26	1.32174 AU	asc. node	2003 Way 10 04.34	24 02804	
max. Lattii dist.	2004 Juli 01 13.43	11 1133 20	1.32174 AU	superior conj	2085 May 17 12:22	27° 8 19'30	0°13'49
aumorior coni	2084 Jun 02 01:46	12° Ⅱ 30'44	0°38'42		2085 May 17 11:44	27° 8 16'02	0°13'40
superior conj	2084 Jun 02 01:46 2084 Jun 02 00:09	12 Ⅲ 3044 12° Ⅲ 21'49	0°38'21	minimum elong	•	27° 8 01'48	0 13 40
minimum elong	2084 Jun 02 00:09 2084 Jun 08 22:27	27° I I25'48	0 3621	behind sun begin behind sun end	2085 May 17 09:07	27° 8 30'16	
evening rise		0°95		bennia sun ena	2085 May 17 14:20	0° Ⅱ	
	2084 Jun 10 03:52				2085 May 18 17:42		
	2084 Jun 27 02:58	0°N		evening rise	2085 May 24 09:47	12° Ⅱ 17'46	
desc. node	2084 Jul 06 13:33	11° Ω 34'07	26000115		2085 Jun 02 09:11	0°99	24046140
evening max el	2084 Jul 07 13:11		26°08'15	evening max el	2085 Jun 19 05:20	23°526'34	24°46'40
retrograde	2084 Jul 21 12:59	19° Ω 42'25		desc. node	2085 Jun 23 10:35	26°958'04	
evening set	2084 Jul 27 21:59	18° Ω 03'29	0.50116.477		2085 Jun 29 12:37	0°N	
min. Earth dist.	2084 Aug 01 01:50		0.59116 AU	retrograde	2085 Jul 03 04:07	0° Ω 30'49	
inferior conj	2084 Aug 04 09:04	12° Ω 58'06			2085 Jul 06 20:00	30°Rூ	
minimum elong	2084 Aug 04 11:35	12° £ 53′19	4°53'36	evening set	2085 Jul 08 07:43	29°930'37	
morning rise	2084 Aug 12 03:21	8° Ω 29'13		min. Earth dist.	2085 Jul 13 16:35	26°541'13	0.57160 AU
direct	2084 Aug 14 14:41	8° Ω 08'25		inferior conj	2085 Jul 16 14:17	24°5547'12	
morning max el	2084 Aug 22 12:41	11° Ω 56'18	18°28'08	minimum elong	2085 Jul 16 11:53	24°951'09	4°54'35
asc. node	2084 Aug 25 07:04	14° Ω 59'34		morning rise	2085 Jul 24 18:45	20°540'06	
	2084 Sep 03 15:01	0° m		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°936'56	19°17'33
	• • • • • • • • • • • • • • • • • • • •				2085 Aug 10 04:21	0° Ω	
superior conj	2084 Sep 16 14:52	24° Mp 42'23		asc. node	2085 Aug 12 04:08	2° Ω 53'33	
minimum elong	2084 Sep 16 17:59	24° m 56'47	1°33'37	morning set	2085 Aug 22 14:50	21° Ω 54'51	
	2084 Sep 19 12:16	0∘ ರ			2085 Aug 26 15:54	0°Щ	
max. Earth dist.	2084 Sep 24 01:03	8° ഫ 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° Mp 13'18	1°43'54
	2084 Oct 07 12:27	0°M₊		max. Earth dist.	2085 Sep 06 04:43	20° m 15'00	1.38158 AU
	2084 Oct 29 07:09	0°⊀		evening rise	2085 Sep 09 23:16	27° m 00'19	
evening max el	2084 Nov 02 03:27	4° ₰ 09'46	23°39'22		2085 Sep 11 16:38	0∘ ত	
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° ∡ 121'37			2085 Oct 01 00:40	0° M ₊	
asc. node	2084 Nov 21 06:18	4° ≯ 43'43		evening max el	2085 Oct 15 15:36	17° M 47'45	24°57'10
inferior conj	2084 Nov 23 07:46	1° ∡ 757'59	0°42'11	retrograde	2085 Oct 27 09:09	24°M36'31	
minimum elong	2084 Nov 23 06:47	2° ҂ 01′20	0°41'46	evening set	2085 Nov 02 01:21	22°M13'34	
min. Earth dist.	2084 Nov 22 19:22	2° х 40′16	0.67761 AU	min. Earth dist.	2085 Nov 06 14:17	17°ML06'18	0.67357 AU
	2084 Nov 24 18:53	30°RML		inferior conj	2085 Nov 07 13:18	15°ML50'31	-0°12'07
morning rise	2084 Nov 28 15:20	25°M51'24		minimum elong	2085 Nov 07 13:36	15°M49'31	0°11'59
direct	2084 Dec 02 17:29	24°M17'27		transit middle	2085 Nov 07 13:36	15°M49'31	0°11'59
morning max el	2084 Dec 11 01:02	29°MJ06'31	20°56'24	transit begin	2085 Nov 07 11:44	15°M55'40	

transit end	2085 Nov 07 15:28	15°M43'23		evening set	2086 Oct 16 23:36	5° ™ 59'45	
asc. node	2085 Nov 08 03:21	15°M04'23		min. Earth dist.	2086 Oct 21 05:07	1°M28'03	0.66617 AU
morning rise	2085 Nov 13 02:00	9°M50'23		mm. Lartii dist.	2086 Oct 22 09:24	30°R Ω	0.00017710
direct	2085 Nov 16 15:37	8°M37'02		inferior conj	2086 Oct 22 05:24 2086 Oct 22 15:14	29° £ 41'47	-1°09'24
morning max el	2085 Nov 24 02:10	12°M50'43	19°47'29	minimum elong	2086 Oct 22 17:04	29° ₽ 36'06	1°08'38
morning man vi	2085 Dec 07 02:16	0°×7	1, 1, 2,	asc. node	2086 Oct 26 00:24	25° Ω 48'08	1 00 30
greatest brilliancy	2085 Dec 07 13:04	0° × ⁷ 40'03	-0.7m	morning rise	2086 Oct 28 10:55	23° Ω 50'49	
desc. node	2085 Dec 16 09:12	14° × ⁷ 03'13	0.7111	direct	2086 Oct 31 14:06	22° £ 54'38	
morning set	2085 Dec 19 19:38	19° ₹ ¹20'32		morning max el	2086 Nov 07 10:28	26° £ 43'06	18°53'27
8	2085 Dec 26 16:03	0°ප			2086 Nov 10 08:04	0°M₊	
max. Earth dist.	2085 Dec 31 16:34		1.44208 AU	morning set	2086 Nov 29 06:22	28° ™ 20'07	
				Č	2086 Nov 30 07:47	0° ∡ ¹	
superior conj	2086 Jan 05 10:24	15° ⋜ 31'48	-1°50'26	desc. node	2086 Dec 03 06:13	4° ∡ ³36'35	
minimum elong	2086 Jan 05 03:28	15° る 03'47	1°49'57	max. Earth dist.	2086 Dec 14 08:58	22° ∡ 03'11	1.45021 AU
C	2086 Jan 14 05:17	0° ≈					
evening rise	2086 Jan 18 22:44	7° ≈ 59'05		superior conj	2086 Dec 15 17:59	24° ∡ 13′05	-1°17'28
	2086 Feb 01 08:30	0° ∀		minimum elong	2086 Dec 15 09:20	23° ∡ ³39′00	1°16'30
asc. node	2086 Feb 04 02:40	3°) 43′38			2086 Dec 19 09:55	0°ප	
evening max el	2086 Feb 06 07:43	6° ℋ 13'19	18°15'41	evening rise	2086 Dec 31 00:59	18° る 36'59	
retrograde	2086 Feb 12 18:45	9°) 41′04			2087 Jan 07 01:34	0° ≈	
evening set	2086 Feb 15 17:04	8°) 55'44		evening max el	2087 Jan 20 19:11	19° ≈ 38′25	18°42'21
inferior conj	2086 Feb 21 18:25	3°) 35′04	3°43'12	asc. node	2087 Jan 21 23:42	20° ≈ 46′21	
minimum elong	2086 Feb 21 18:10	3°) € 35'45	3°43'11	retrograde	2087 Jan 27 11:13	23° ≈ 21′22	
min. Earth dist.	2086 Feb 24 06:44	0°) 48'41	0.63439 AU	evening set	2087 Jan 30 15:20	22° ≈ 24'14	
	2086 Feb 25 01:17	30°R ≈		inferior conj	2087 Feb 05 08:59	16° ≈ 45'47	3°33'50
morning rise	2086 Feb 27 18:24	27° ≈ 30'35		minimum elong	2087 Feb 05 07:20	16° ≈ 50'48	3°33'38
direct	2086 Mar 06 16:50	24° ≈ 46′09		min. Earth dist.	2087 Feb 07 05:44	14° ≈ 30′07	0.65106 AU
desc. node	2086 Mar 14 08:25	27° ≈ 29'44		morning rise	2087 Feb 10 22:54	10° ≈ 36′04	
	2086 Mar 17 15:15	0° ℋ		direct	2087 Feb 17 15:47	7° ≈ 44'04	
morning max el	2086 Mar 20 12:55	2°) 42′03	27°42'14	desc. node	2087 Mar 01 05:27	13° ≈ 51'19	
-	2086 Apr 09 20:17	0 ° $\mathbf{\Upsilon}$		morning max el	2087 Mar 02 22:27	15° ≈ 30′22	27°03'08
morning set	2086 Apr 24 02:00	25° Ƴ 47'24			2087 Mar 14 20:35	0°) €	
	2086 Apr 26 03:58	$_{0\circ}$ 8			2087 Apr 02 14:18	0 ° Υ	
max. Earth dist.	2086 Apr 29 07:18	6° 8 31'59	1.32974 AU	morning set	2087 Apr 07 14:27	9° Ƴ 21'46	
				max. Earth dist.	2087 Apr 12 02:39	18° Ƴ 17'16	1.34028 AU
superior conj	2086 May 01 20:02	11° 8 55'47	-0°13'07				
minimum elong	2086 May 01 20:41	11° 8 59'15	0°12'59	superior conj	2087 Apr 15 22:40	26° Y 12′01	-0°41'05
behind sun begin	2086 May 01 17:35	11° 8 42'37		minimum elong	2087 Apr 16 00:45	26° Ƴ 22'54	0°40'39
behind sun end	2086 May 01 23:46	12° 8 15'52			2087 Apr 17 18:00	0° ႘	
asc. node	2086 May 03 01:58	14° 8 36'57		asc. node	2087 Apr 19 22:59	4° 8 40'41	
evening rise	2086 May 08 21:36	27° 8 07'33		evening rise	2087 Apr 23 08:00	11° 8 47'49	
	2086 May 10 06:29	Π $^{\circ}0$			2087 May 02 18:41	Π $^{\circ}0$	
	2086 May 28 03:20	0°€		evening max el	2087 May 13 13:52	14° Ⅲ 34'12	21°38'07
evening max el	2086 May 31 19:07	3° 5 57'23	23°11'39	retrograde	2087 May 25 22:18	20° Ⅱ 37'38	
desc. node	2086 Jun 10 07:38	10° © 05'31		evening set	2087 May 28 09:57	20° Ⅲ 23'42	
retrograde	2086 Jun 14 06:57	10° 5 641'27		desc. node	2087 May 28 04:40	20° Ⅲ 26′01	
evening set	2086 Jun 17 22:24	10°9512'20					2010115
min. Earth dist.				inferior conj	2087 Jun 06 19:48	16° Ⅱ 22'16	-2°42'45
inferior conj	2086 Jun 25 04:45		0.55661 AU	minimum elong	2087 Jun 06 12:40	16° Ⅱ 32'14	2°40'28
inicitor conj	2086 Jun 26 23:54	6°955'27 5°952'16		·		16° Ⅲ 32'14 16° Ⅲ 26'46	
minimum elong	2086 Jun 26 23:54 2086 Jun 26 16:43	5°\$52'16 6°\$02'49	-4°12'27	minimum elong min. Earth dist. morning rise	2087 Jun 06 12:40 2087 Jun 06 16:35 2087 Jun 15 16:18	16°Д32'14 16°Д26'46 12°Д26'46	2°40'28
3	2086 Jun 26 23:54 2086 Jun 26 16:43 2086 Jul 05 13:34	5°\$52'16	-4°12'27	minimum elong min. Earth dist. morning rise direct	2087 Jun 06 12:40 2087 Jun 06 16:35 2087 Jun 15 16:18 2087 Jun 18 20:31	16° Ⅲ 32'14 16° Ⅲ 26'46	2°40'28
minimum elong morning rise direct	2086 Jun 26 23:54 2086 Jun 26 16:43 2086 Jul 05 13:34 2086 Jul 08 09:01	5°\$52'16 6°\$02'49 1°\$58'42 1°\$39'42	-4°12'27 4°10'58	minimum elong min. Earth dist. morning rise	2087 Jun 06 12:40 2087 Jun 06 16:35 2087 Jun 15 16:18 2087 Jun 18 20:31 2087 Jul 01 03:50	16°Д32'14 16°Д26'46 12°Д26'46 12°Д04'40 17°Д52'46	2°40'28 0.54938 AU
minimum elong morning rise direct morning max el	2086 Jun 26 23:54 2086 Jun 26 16:43 2086 Jul 05 13:34 2086 Jul 08 09:01 2086 Jul 19 02:03	5°\$52'16 6°\$02'49 1°\$58'42 1°\$39'42 6°\$37'20	-4°12'27	minimum elong min. Earth dist. morning rise direct morning max el	2087 Jun 06 12:40 2087 Jun 06 16:35 2087 Jun 15 16:18 2087 Jun 18 20:31 2087 Jul 01 03:50 2087 Jul 10 19:22	16°П32'14 16°П26'46 12°П26'46 12°П04'40 17°П52'46 0°©	2°40'28 0.54938 AU
minimum elong morning rise direct	2086 Jun 26 23:54 2086 Jun 26 16:43 2086 Jul 05 13:34 2086 Jul 08 09:01 2086 Jul 19 02:03 2086 Jul 30 01:11	5°952'16 6°902'49 1°958'42 1°939'42 6°937'20 21°930'51	-4°12'27 4°10'58	minimum elong min. Earth dist. morning rise direct morning max el asc. node	2087 Jun 06 12:40 2087 Jun 06 16:35 2087 Jun 15 16:18 2087 Jun 18 20:31 2087 Jul 01 03:50 2087 Jul 10 19:22 2087 Jul 16 22:13	16°П32'14 16°П26'46 12°П26'46 12°П04'40 17°П52'46 0°© 10°©40'11	2°40'28 0.54938 AU
minimum elong morning rise direct morning max el	2086 Jun 26 23:54 2086 Jun 26 16:43 2086 Jul 05 13:34 2086 Jul 08 09:01 2086 Jul 19 02:03 2086 Jul 30 01:11 2086 Aug 03 14:29	5°\$52'16 6°\$02'49 1°\$58'42 1°\$39'42 6°\$37'20 21°\$30'51 0°\$\$\$	-4°12'27 4°10'58	minimum elong min. Earth dist. morning rise direct morning max el	2087 Jun 06 12:40 2087 Jun 06 16:35 2087 Jun 15 16:18 2087 Jun 18 20:31 2087 Jul 01 03:50 2087 Jul 10 19:22 2087 Jul 16 22:13 2087 Jul 22 06:05	16° II 32'14 16° II 26'46 12° II 26'46 12° II 04'40 17° II 52'46 0° 55 10° 5540'11 21° 5521'07	2°40'28 0.54938 AU
minimum elong morning rise direct morning max el	2086 Jun 26 23:54 2086 Jun 26 16:43 2086 Jul 05 13:34 2086 Jul 08 09:01 2086 Jul 19 02:03 2086 Jul 30 01:11	5°952'16 6°902'49 1°958'42 1°939'42 6°937'20 21°930'51	-4°12'27 4°10'58	minimum elong min. Earth dist. morning rise direct morning max el asc. node	2087 Jun 06 12:40 2087 Jun 06 16:35 2087 Jun 15 16:18 2087 Jun 18 20:31 2087 Jul 01 03:50 2087 Jul 10 19:22 2087 Jul 16 22:13	16°П32'14 16°П26'46 12°П26'46 12°П04'40 17°П52'46 0°© 10°©40'11	2°40'28 0.54938 AU
minimum elong morning rise direct morning max el asc. node morning set	2086 Jun 26 23:54 2086 Jun 26 16:43 2086 Jul 05 13:34 2086 Jul 08 09:01 2086 Jul 19 02:03 2086 Jul 30 01:11 2086 Aug 03 14:29 2086 Aug 06 20:35	5°\$52'16 6°\$02'49 1°\$58'42 1°\$39'42 6°\$37'20 21°\$30'51 0°\$ 6°\$\Omega_32'16	-4°12'27 4°10'58 20°28'04	minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set	2087 Jun 06 12:40 2087 Jun 06 16:35 2087 Jun 15 16:18 2087 Jun 18 20:31 2087 Jul 01 03:50 2087 Jul 10 19:22 2087 Jul 16 22:13 2087 Jul 22 06:05 2087 Jul 26 08:26	16°∏32'14 16°∏26'46 12°∏26'46 12°∏04'40 17°∏52'46 0°© 10°©40'11 21°©21'07 0°Ω	2°40'28 0.54938 AU 21°57'22
minimum elong morning rise direct morning max el asc. node morning set superior conj	2086 Jun 26 23:54 2086 Jun 26 16:43 2086 Jul 05 13:34 2086 Jul 08 09:01 2086 Jul 19 02:03 2086 Jul 30 01:11 2086 Aug 03 14:29 2086 Aug 06 20:35	5°\$52'16 6°\$02'49 1°\$58'42 1°\$39'42 6°\$37'20 21°\$30'51 0°\$A 6°\$\Omega_32'16	-4°12'27 4°10'58 20°28'04	minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set	2087 Jun 06 12:40 2087 Jun 06 16:35 2087 Jun 15 16:18 2087 Jun 18 20:31 2087 Jul 01 03:50 2087 Jul 10 19:22 2087 Jul 16 22:13 2087 Jul 22 06:05 2087 Jul 26 08:26	16°∏32'14 16°∏26'46 12°∏26'46 12°∏04'40 17°∏52'46 0°© 10°©40'11 21°©21'07 0°Ω 6°Ω38'30	2°40'28 0.54938 AU 21°57'22 1°39'33
minimum elong morning rise direct morning max el asc. node morning set	2086 Jun 26 23:54 2086 Jun 26 16:43 2086 Jul 05 13:34 2086 Jul 08 09:01 2086 Jul 19 02:03 2086 Jul 30 01:11 2086 Aug 03 14:29 2086 Aug 06 20:35 2086 Aug 14 10:56 2086 Aug 14 10:27	5°\$52'16 6°\$02'49 1°\$58'42 1°\$39'42 6°\$37'20 21°\$30'51 0°\$\Omega\$6 6°\$\Omega\$32'16 22°\$\Omega\$07'46	-4°12'27 4°10'58 20°28'04	minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set superior conj minimum elong	2087 Jun 06 12:40 2087 Jun 06 16:35 2087 Jun 15 16:18 2087 Jun 18 20:31 2087 Jul 01 03:50 2087 Jul 10 19:22 2087 Jul 16 22:13 2087 Jul 22 06:05 2087 Jul 26 08:26 2087 Jul 29 11:49 2087 Jul 29 10:10	16° Π32'14 16° Π26'46 12° Π26'46 12° Π04'40 17° Π52'46 0° © 10° © 40'11 21° © 21'07 0° Ω 6° Ω38'30 6° Ω29'49	2°40'28 0.54938 AU 21°57'22 1°39'33 1°39'26
minimum elong morning rise direct morning max el asc. node morning set superior conj minimum elong	2086 Jun 26 23:54 2086 Jun 26 16:43 2086 Jul 05 13:34 2086 Jul 08 09:01 2086 Jul 19 02:03 2086 Jul 30 01:11 2086 Aug 03 14:29 2086 Aug 06 20:35 2086 Aug 14 10:56 2086 Aug 14 10:27 2086 Aug 18 09:05	5°\$52'16 6°\$02'49 1°\$58'42 1°\$39'42 6°\$37'20 21°\$30'51 0°\$\Omega\$6 \text{\alpha}32'16 22°\$\Omega\$10'10 22°\$\Omega\$07'46 0°\$\Omega\$	-4°12'27 4°10'58 20°28'04 1°45'16 1°45'16	minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist.	2087 Jun 06 12:40 2087 Jun 06 16:35 2087 Jun 15 16:18 2087 Jun 18 20:31 2087 Jul 01 03:50 2087 Jul 10 19:22 2087 Jul 16 22:13 2087 Jul 22 06:05 2087 Jul 26 08:26 2087 Jul 29 11:49 2087 Jul 29 10:10 2087 Aug 02 01:23	16° \$\Pi 32'14\) 16° \$\Pi 26'46\) 12° \$\Pi 26'46\) 12° \$\Pi 26'46\) 0° \$\Sigma \text{40}'11\) 21° \$\Sigma 21'07\) 0° \$\Omega \text{6}' \$\Omega 38'30\) 6° \$\Omega 29'49\) 14° \$\Omega 01'39	2°40'28 0.54938 AU 21°57'22 1°39'33
minimum elong morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist.	2086 Jun 26 23:54 2086 Jun 26 16:43 2086 Jul 05 13:34 2086 Jul 08 09:01 2086 Jul 19 02:03 2086 Jul 30 01:11 2086 Aug 03 14:29 2086 Aug 06 20:35 2086 Aug 14 10:56 2086 Aug 14 10:27 2086 Aug 18 09:05 2086 Aug 19 11:02	5°\$52'16 6°\$02'49 1°\$58'42 1°\$39'42 6°\$37'20 21°\$30'51 0°\$\Omega\$6 \text{\$\alpha\$32'16} 22°\$\Omega\$10'10 22°\$\Omega\$07'46 0°\$\Omega\$2"\$\Omega\$06'21	-4°12'27 4°10'58 20°28'04	minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set superior conj minimum elong	2087 Jun 06 12:40 2087 Jun 06 16:35 2087 Jun 15 16:18 2087 Jun 18 20:31 2087 Jul 01 03:50 2087 Jul 10 19:22 2087 Jul 16 22:13 2087 Jul 22 06:05 2087 Jul 26 08:26 2087 Jul 29 11:49 2087 Jul 29 10:10 2087 Aug 02 01:23 2087 Aug 06 14:32	16° Π32'14 16° Π26'46 12° Π26'46 12° Π04'40 17° Π52'46 0° © 10° © 40'11 21° © 21'07 0° Ω 6° Ω38'30 6° Ω29'49 14° Ω01'39 23° Ω03'36	2°40'28 0.54938 AU 21°57'22 1°39'33 1°39'26
minimum elong morning rise direct morning max el asc. node morning set superior conj minimum elong	2086 Jun 26 23:54 2086 Jun 26 16:43 2086 Jul 05 13:34 2086 Jul 08 09:01 2086 Jul 19 02:03 2086 Jul 30 01:11 2086 Aug 03 14:29 2086 Aug 06 20:35 2086 Aug 14 10:56 2086 Aug 14 10:27 2086 Aug 18 09:05 2086 Aug 19 11:02 2086 Aug 23 10:38	5°\$52'16 6°\$02'49 1°\$58'42 1°\$39'42 6°\$37'20 21°\$30'51 0°\$\Omega\$6 6°\$\Omega\$32'16 22°\$\Omega\$07'46 0°\$\Omega\$2"\$\Omega\$06'21 9°\$\Omega\$38'08	-4°12'27 4°10'58 20°28'04 1°45'16 1°45'16	minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise	2087 Jun 06 12:40 2087 Jun 06 16:35 2087 Jun 15 16:18 2087 Jun 18 20:31 2087 Jul 01 03:50 2087 Jul 10 19:22 2087 Jul 16 22:13 2087 Jul 22 06:05 2087 Jul 26 08:26 2087 Jul 29 11:49 2087 Jul 29 10:10 2087 Aug 02 01:23 2087 Aug 06 14:32 2087 Aug 10 06:57	16° \$\Pi 32'14\ 16° \$\Pi 26'46\ 12° \$\Pi 26'46\ 12° \$\Pi 04'40\ 17° \$\Pi 52'46\ 0° \$\Sigma \text{10}' \text{20'11}\ 21° \$\Sigma 21'07\ 0° \$\Omega \text{38'30}\ 6° \$\Omega 29'49\ 14° \$\Omega 01'39\ 23° \$\Omega 03'36\ 0° \$\Pi \text{10}' \text{10}'	2°40'28 0.54938 AU 21°57'22 1°39'33 1°39'26
minimum elong morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise	2086 Jun 26 23:54 2086 Jun 26 16:43 2086 Jul 05 13:34 2086 Jul 08 09:01 2086 Jul 19 02:03 2086 Jul 30 01:11 2086 Aug 03 14:29 2086 Aug 06 20:35 2086 Aug 14 10:27 2086 Aug 14 10:27 2086 Aug 18 09:05 2086 Aug 19 11:02 2086 Aug 23 10:38 2086 Sep 04 07:47	5°\$52'16 6°\$02'49 1°\$58'42 1°\$39'42 6°\$37'20 21°\$30'51 0°\$\Omega\$6 6°\$\Omega\$32'16 22°\$\Omega\$07'46 0°\$\Omega\$2 mo6'21 9°\$\Omega\$38'08 0°\$\Omega\$	-4°12'27 4°10'58 20°28'04 1°45'16 1°45'16	minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist.	2087 Jun 06 12:40 2087 Jun 06 16:35 2087 Jun 15 16:18 2087 Jun 18 20:31 2087 Jul 01 03:50 2087 Jul 10 19:22 2087 Jul 16 22:13 2087 Jul 22 06:05 2087 Jul 26 08:26 2087 Jul 29 11:49 2087 Jul 29 10:10 2087 Aug 02 01:23 2087 Aug 06 14:32 2087 Aug 10 06:57 2087 Aug 24 03:58	16° \$\Pi 32'14\$ 16° \$\Pi 26'46\$ 12° \$\Pi 26'46\$ 12° \$\Pi 04'40\$ 17° \$\Pi 52'46\$ 0° \$\Sigma 10' \$\Sigma 40'11\$ 21° \$\Sigma 21'07\$ 0° \$\Omega \$\limes \Omega 29'49\$ 14° \$\Omega 03'36\$ 0° \$\Pi \$\Sigma 23' \$\Pi 04'39\$	2°40'28 0.54938 AU 21°57'22 1°39'33 1°39'26
minimum elong morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist.	2086 Jun 26 23:54 2086 Jun 26 16:43 2086 Jul 05 13:34 2086 Jul 08 09:01 2086 Jul 19 02:03 2086 Jul 30 01:11 2086 Aug 03 14:29 2086 Aug 06 20:35 2086 Aug 14 10:56 2086 Aug 14 10:27 2086 Aug 18 09:05 2086 Aug 19 11:02 2086 Aug 23 10:38 2086 Sep 04 07:47 2086 Sep 06 06:56	5°\$52'16 6°\$02'49 1°\$58'42 1°\$39'42 6°\$37'20 21°\$30'51 0°\$\Omega\$6 6°\$\Omega\$32'16 22°\$\Omega\$07'46 0°\$\Omega\$2 mo6'21 9°\$\Omega\$38'08 0°\$\Omega\$3°\$\Omega\$04'49	-4°12'27 4°10'58 20°28'04 1°45'16 1°45'16	minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise desc. node	2087 Jun 06 12:40 2087 Jun 06 16:35 2087 Jun 15 16:18 2087 Jun 18 20:31 2087 Jul 01 03:50 2087 Jul 10 19:22 2087 Jul 16 22:13 2087 Jul 22 06:05 2087 Jul 26 08:26 2087 Jul 29 10:10 2087 Aug 02 01:23 2087 Aug 06 14:32 2087 Aug 10 06:57 2087 Aug 24 03:58 2087 Aug 28 23:44	16° \(\Pi \) 32'14 16° \(\Pi \) 26'46 12° \(\Pi \) 26'46 12° \(\Pi \) 0'\$\(\Pi \) 10° \$\Pi \) 40'11 21° \$\Pi \) 21'07 0° \$\Omega\$ 6° \$\Omega \) 38'30 6° \$\Omega \) 23° \$\Omega \) 03'36 0° \$\Omega\$ 23° \$\Omega \) 04'39 0° \$\Omega\$	2°40'28 0.54938 AU 21°57'22 1°39'33 1°39'26 1.34657 AU
minimum elong morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise desc. node	2086 Jun 26 23:54 2086 Jun 26 16:43 2086 Jul 05 13:34 2086 Jul 08 09:01 2086 Jul 19 02:03 2086 Jul 30 01:11 2086 Aug 03 14:29 2086 Aug 06 20:35 2086 Aug 14 10:56 2086 Aug 14 10:27 2086 Aug 18 09:05 2086 Aug 19 11:02 2086 Aug 23 10:38 2086 Sep 04 07:47 2086 Sep 06 06:56 2086 Sep 26 16:37	5°\$52'16 6°\$02'49 1°\$58'42 1°\$39'42 6°\$37'20 21°\$30'51 0°\$\Omega\$ 6°\$\Omega\$32'16 22°\$\Omega\$07'46 0°\$\Omega\$2°\$\Omega\$08'21 9°\$\Omega\$38'08 0°\$\Omega\$3°\$\Omega\$04'49 0°\$\Omega\$	-4°12'27 4°10'58 20°28'04 1°45'16 1°45'16 1.36250 AU	minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise desc. node evening max el	2087 Jun 06 12:40 2087 Jun 06 16:35 2087 Jun 15 16:18 2087 Jun 18 20:31 2087 Jul 01 03:50 2087 Jul 10 19:22 2087 Jul 16 22:13 2087 Jul 22 06:05 2087 Jul 26 08:26 2087 Jul 29 11:49 2087 Jul 29 10:10 2087 Aug 02 01:23 2087 Aug 06 14:32 2087 Aug 10 06:57 2087 Aug 24 03:58 2087 Aug 28 23:44 2087 Sep 10 16:02	16° \$\Pi 32' 14\) 16° \$\Pi 26' 46\) 12° \$\Pi 26' 46\) 12° \$\Pi 32' 46\) 0° \$\Sigma 10' \Sigma 40' 11\) 21° \$\Sigma 21' 07\) 0° \$\Omega \) 6° \$\Omega 38' 30\) 6° \$\Omega 29' 49\) 14° \$\Omega 01' 39\) 23° \$\Omega 04' 39\) 0° \$\Omega \) 15° \$\Omega 02' 23\)	2°40'28 0.54938 AU 21°57'22 1°39'33 1°39'26
minimum elong morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise	2086 Jun 26 23:54 2086 Jun 26 16:43 2086 Jul 05 13:34 2086 Jul 08 09:01 2086 Jul 19 02:03 2086 Jul 30 01:11 2086 Aug 03 14:29 2086 Aug 06 20:35 2086 Aug 14 10:56 2086 Aug 14 10:27 2086 Aug 18 09:05 2086 Aug 19 11:02 2086 Aug 23 10:38 2086 Sep 04 07:47 2086 Sep 06 06:56	5°\$52'16 6°\$02'49 1°\$58'42 1°\$39'42 6°\$37'20 21°\$30'51 0°\$\Omega\$6 6°\$\Omega\$32'16 22°\$\Omega\$07'46 0°\$\Omega\$2 mo6'21 9°\$\Omega\$38'08 0°\$\Omega\$3°\$\Omega\$04'49	-4°12'27 4°10'58 20°28'04 1°45'16 1°45'16 1.36250 AU	minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise desc. node	2087 Jun 06 12:40 2087 Jun 06 16:35 2087 Jun 15 16:18 2087 Jun 18 20:31 2087 Jul 01 03:50 2087 Jul 10 19:22 2087 Jul 16 22:13 2087 Jul 22 06:05 2087 Jul 26 08:26 2087 Jul 29 10:10 2087 Aug 02 01:23 2087 Aug 06 14:32 2087 Aug 10 06:57 2087 Aug 24 03:58 2087 Aug 28 23:44	16° \(\Pi \) 32'14 16° \(\Pi \) 26'46 12° \(\Pi \) 26'46 12° \(\Pi \) 0'\$\(\Pi \) 10° \$\Pi \) 40'11 21° \$\Pi \) 21'07 0° \$\Omega\$ 6° \$\Omega \) 38'30 6° \$\Omega \) 23° \$\Omega \) 03'36 0° \$\Omega\$ 23° \$\Omega \) 04'39 0° \$\Omega\$	2°40'28 0.54938 AU 21°57'22 1°39'33 1°39'26 1.34657 AU

min. Earth dist.	2087 Oct 04 13:23	15° Ω 40'40	0.65528 AU		2088 Aug 24 23:34	0∘ ⊽	
inferior conj	2087 Oct 06 11:30	13° ⊆ 27'38		retrograde	2088 Sep 05 16:54	5° ≏ 38'02	
minimum elong	2087 Oct 06 14:56	13° ⊆ 17'44	2°06'41	evening set	2088 Sep 12 20:03	2° £ 56'51	
morning rise	2087 Oct 12 15:49	7° £ 48'58			2088 Sep 16 03:33	30°R. Mp	
asc. node	2087 Oct 12 21:25	7° £ 42'10		min. Earth dist.	2088 Sep 16 12:50		0.64085 AU
direct	2087 Oct 15 10:55	7° £ 06'09		inferior conj	2088 Sep 18 23:40	27° m 02'29	
morning max el	2087 Oct 21 23:58	10° ₽ 39'02	18°15'49	minimum elong	2088 Sep 19 04:29	26° m 49'53	
Č	2087 Nov 04 12:27	0°M₊		morning rise	2088 Sep 25 13:58	21°m/39'37	
morning set	2087 Nov 09 21:31	8° M 46'17		direct	2088 Sep 28 03:27	21° m 06'37	
desc. node	2087 Nov 20 03:15	25°M18'15		asc. node	2088 Sep 28 18:27	21°Mp08'37	
	2087 Nov 23 02:10	0° ∡ ¹		morning max el	2088 Oct 04 15:59	24° mp 32'27	17°55'19
					2088 Oct 09 02:48	0∘ ত	
superior conj	2087 Nov 24 20:04	2° ∡ ¹45'38	-0°31'11	morning set	2088 Oct 21 16:11	20° £ 32'21	
minimum elong	2087 Nov 24 16:02	2° ∡ ¹29'44	0°30'38		2088 Oct 27 05:50	0°M	
max. Earth dist.	2087 Nov 27 04:16	6° х 26′59	1.45100 AU				
evening rise	2087 Dec 11 04:21	28° ∡ ¹20'59		superior conj	2088 Nov 03 13:34	12°M06'49	0°16'31
	2087 Dec 12 05:44	0°ರ		minimum elong	2088 Nov 03 15:25	12° M 14'18	0°16'16
greatest brilliancy	2087 Dec 22 19:25	16° る 23'19	-0.7m	desc. node	2088 Nov 06 00:16	16°M04'14	
	2088 Jan 01 09:31	0° ≈		max. Earth dist.	2088 Nov 08 22:48	20°M46'16	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° ∡ ¹29'03	
retrograde	2088 Jan 11 07:44	7° ≈ 15'45			2088 Dec 04 13:58	0°ಕ	
evening set	2088 Jan 14 18:49	6° ≈ 05'37		evening max el	2088 Dec 17 06:28	16° る 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° る 19'00	
minimum elong	2088 Jan 20 04:58	0° ≈ 19′24	3°10'49	asc. node	2088 Dec 25 17:44	21° る 17'36	
	2088 Jan 20 10:56	30°₹ る		evening set	2088 Dec 29 01:20	19° る 54'32	
min. Earth dist.	2088 Jan 21 13:13	28° る 34'39	0.66374 AU	inferior conj	2089 Jan 03 10:57	13° る 47'33	2°38'48
morning rise	2088 Jan 25 14:53	23° る 59'08		minimum elong	2089 Jan 03 08:19	13° る 56'27	2°38'03
direct	2088 Jan 31 20:44	21° る 13'03		min. Earth dist.	2089 Jan 04 03:24	12° る 51'43	0.67234 AU
morning max el	2088 Feb 13 07:50	28° る 36'42	25°57'50	morning rise	2089 Jan 08 15:09	7° る 34'17	
	2088 Feb 14 15:57	0° ≈		direct	2089 Jan 14 06:57	5° ට 03'41	
desc. node	2088 Feb 16 02:28	1°≈34'19		morning max el	2089 Jan 25 16:24	11°る51'28	24°35'53
	2088 Mar 07 15:20	0° ∀		desc. node	2089 Feb 01 23:30	20° ප 14'42	
morning set	2088 Mar 20 13:14	22°\(\)11'24	1.25544.433		2089 Feb 09 05:43	0° ≈	
max. Earth dist.	2088 Mar 24 10:33	29° 米 31'49 0° ⋎	1.35544 AU	. ,	2089 Feb 28 09:30 2089 Mar 02 16:59	0° ∺ 4° ∺ 01'06	
	2088 Mar 24 16:23	U- Y		morning set	2089 Mar 02 16:39 2089 Mar 06 08:49	10° X 34'23	1.37456 AU
gumanian aani	2088 Mar 29 17:49	10° Ƴ 01'15	1000142	max. Earth dist.	2089 Mar 06 08:49	10° π 34°23	1.37430 AU
superior conj minimum elong	2088 Mar 29 21:15	10° Y 01° 13		superior conj	2089 Mar 13 02:17	23°) 14′23	1922155
asc. node	2088 Apr 05 20:01	24° Υ 35'17	1 08 00	minimum elong	2089 Mar 13 06:33	23° X 35'06	
evening rise	2088 Apr 06 15:00	26°Υ12'37		minimum clong	2089 Mar 16 12:58	25 γ 35 00	1 33 23
evening rise	2088 Apr 08 11:49	0°8		evening rise	2089 Mar 21 16:17	10° Y 14'45	
evening max el	2088 Apr 24 19:06	25° 8 41'52	20°17'26	asc. node	2089 Mar 23 17:04	14° Υ 15'46	
evening max er	2088 May 01 01:12	0°II	20 17 20	use. Hode	2089 Apr 01 12:52	0°8	
retrograde	2088 May 05 11:49	0° I 52'52		evening max el	2089 Apr 07 11:56	7° 8 29'04	19°15'15
evening set	2088 May 07 12:44	0° Ⅱ 42'23		retrograde	2089 Apr 16 12:30	11° 8 51'12	
	2088 May 10 04:10	30° ₹ 8		evening set	2089 Apr 18 14:52	11° 8 38'01	
desc. node	2088 May 14 01:41	28° 8 11'49		inferior conj	2089 Apr 26 23:33	7° 8 28'23	1°07'15
inferior conj	2088 May 16 15:01	26° 8 44'02	-0°44'48	minimum elong	2089 Apr 27 02:11	7° 8 23'58	1°06'22
minimum elong	2088 May 16 12:55	26° 8 47'08	0°44'01	min. Earth dist.	2089 Apr 29 20:13	5° 8 34'10	0.56298 AU
min. Earth dist.	2088 May 18 05:19	25° 8 47'47	0.55167 AU	desc. node	2089 Apr 30 22:41	4° 8 52'34	
morning rise	2088 May 25 11:43	22° 8 27'31		morning rise	2089 May 05 10:32	2° 8 37'56	
direct	2088 May 29 08:08	21° 8 55'24		direct	2089 May 10 06:32	1° 8 44'03	
morning max el	2088 Jun 11 21:01	28° 8 32'16	23°38'19	morning max el	2089 May 24 11:28	8° 8 58'56	25°18'05
	2088 Jun 13 08:36	$\Pi^{\circ}0$			2089 Jun 09 03:59	Π $^{\circ}0$	
asc. node	2088 Jul 02 19:15	0°513'24		asc. node	2089 Jun 19 16:19	20° Ⅱ 03'51	
	2088 Jul 02 16:36	0°€		morning set	2089 Jun 20 05:20	21° Ⅱ 12'20	
morning set	2088 Jul 05 17:33	6° © 16'13			2089 Jun 24 07:22	0 \circ \odot	
superior conj	2088 Jul 12 18:28	21° 5 23'47		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		1.33451 AU	max. Earth dist.	2089 Jun 28 08:16	8° 5 49'46	1.32642 AU
	2088 Jul 16 19:39	$0^{\circ}\Omega$		evening rise	2089 Jul 04 07:29	21° © 31'37	
evening rise	2088 Jul 20 06:39	7° Ω 04'52			2089 Jul 08 13:12	0° N	
	2088 Aug 01 19:49	0° m			2089 Jul 26 20:21	0° m)	
desc. node	2088 Aug 10 01:00	12° Tp 35'13	07000101	desc. node	2089 Jul 27 22:00	1° Mp 24'34	25020100
evening max el	2088 Aug 23 03:36	28° Mp 20'12	2/~25'31	evening max el	2089 Aug 05 12:10	11°Mp08'28	27°20'08

ratragrada	2000 Aug 10 07:20	18° m 24'39		ratragrada	2090 Aug 01 14:20	0° mp 28'21	
retrograde	2089 Aug 19 07:20	~		retrograde	•	0 11/2821 30°RΩ	
evening set	2089 Aug 26 12:00	15° Mp 57'19	0.62212.411		2090 Aug 04 21:39		
min. Earth dist.	2089 Aug 30 02:04	13°Mp05'13	0.62312 AU	evening set	2090 Aug 08 10:01	28° Ω 28'39	0.60202.477
inferior conj	2089 Sep 02 00:52	10° m 20'02		min. Earth dist.	2090 Aug 12 05:05	25° Ω 51'25	0.60302 AU
minimum elong	2089 Sep 02 06:16	•	3°56'40	inferior conj	2090 Aug 15 11:38	23° Ω 10'48	
morning rise	2089 Sep 09 02:02	5°Mp16′18		minimum elong	2090 Aug 15 15:56	23° Ω 01′59	4°38'30
direct	2089 Sep 11 12:27	4° Mp 50′02		morning rise	2090 Aug 22 23:49	18° Ω 28'46	
asc. node	2089 Sep 15 15:30	6° Mp 07′46		direct	2090 Aug 25 09:54	18° Ω 06'39	
morning max el	2089 Sep 18 07:40	8° Mp 17'17	17°52'47	morning max el	2090 Sep 01 19:46	21° Ω 44'22	18°09'22
	2089 Oct 02 11:46	0∘ ত		asc. node	2090 Sep 02 12:35	22° Ω 26'40	
morning set	2089 Oct 04 08:28	3° ჲ 20′28			2090 Sep 08 04:39	0° m ⁄	
				morning set	2090 Sep 17 16:24	16° Mp 53′10	
superior conj	2089 Oct 15 09:33	22° ≏ 46'52	0°55'53		2090 Sep 24 17:08	0∘ ত	
minimum elong	2089 Oct 15 14:00	23° £ 05'48	0°55'19				
_	2089 Oct 19 16:37	0°M,		superior conj	2090 Sep 27 07:18	4° ≏ 42'19	1°23'22
max. Earth dist.	2089 Oct 22 13:22	4°M42'16	1.43143 AU	minimum elong	2090 Sep 27 11:20	5° ഫ 00'26	1°22'57
desc. node	2089 Oct 23 21:18	6°M51'39		max. Earth dist.	2090 Oct 04 22:23	18° ≏ 00'04	1.41367 AU
evening rise	2089 Oct 30 01:29	16°MJ39′23		evening rise	2090 Oct 10 02:30	26° £ 32'50	
	2089 Nov 07 19:08	0° ∡ 7		desc. node	2090 Oct 10 18:20	27° ♀ 36'43	
evening max el	2089 Nov 30 03:55	0° 궁 08'02	21°35'11	dese. Hode	2090 Oct 12 06:07	0°M	
evening max er	2089 Nov 30 00:47	0°る。02	21 33 11		2090 Nov 01 13:28	0° ⊼	
ratragrada	2089 Dec 09 02:58	5° る 27'57		evening max el	2090 Nov 12 20:22	13° × ⁷ 40'36	22052124
retrograde		3 32 737 4° 3 20'50		•	2090 Nov 12 20:22 2090 Nov 22 21:58		22 33 24
asc. node	2089 Dec 12 14:46			retrograde		19° 🗷 39'09	
evening set	2089 Dec 13 09:01	3° る 47'49		evening set	2090 Nov 27 16:14	17° 🖈 42'21	
	2089 Dec 16 21:38	30°₹ ৴		asc. node	2090 Nov 29 11:49	15° ₹ 55'29	
inferior conj	2089 Dec 18 17:28	27° ∡ ³31′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° ∡ ³39′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° ∡ 741'48	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°ප		desc. node	2091 Jan 06 17:35	29° ∡ ¹26'57	
desc. node	2090 Jan 19 20:32	9° ප 36'09			2091 Jan 07 02:42	5°0	
	2090 Feb 02 18:05	0° ≈		morning set	2091 Jan 22 16:45	23° る 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	
e vennig 1150	2090 Mar 08 15:23	0°Υ		asc. node	2091 Feb 25 11:09	22°) (31'35	
asc. node	2090 Mar 10 14:06	3° Υ 36'43		ase. Hode	2091 Mar 02 12:50	0°Υ	
evening max el	2090 Mar 21 14:28	19° Υ 52'51	18°33'12	evening max el	2091 Mar 04 23:29	2° Υ 44'46	18°11'10
retrograde	2090 Mar 29 07:17	23° Υ 39'29	10 33 12	retrograde	2091 Mar 11 20:11	6°Υ12'18	10 11 10
evening set	2090 Mar 31 15:29	23° Υ 19'42		evening set	2091 Mar 14 10:19	5° Υ '43'27	
-		18° Υ 51'35	2°30'09	inferior conj	2091 Mar 21 06:37	0°Υ54'26	2910122
inferior conj	2090 Apr 08 04:42	18° Υ 43'46	2°29'07	-		0° Υ 48'03	3°19'07
minimum elong	2090 Apr 08 08:41	16°Υ12'37		minimum elong	2091 Mar 21 09:26		3-190/
min. Earth dist.	2090 Apr 11 14:40		0.58101 AU	i To al lin	2091 Mar 22 06:25	30° ₹	0.60225.441
morning rise	2090 Apr 15 22:50	13°Υ28'46		min. Earth dist.	2091 Mar 24 14:40	27°) 53'54	0.60225 AU
desc. node	2090 Apr 17 19:44	12° Y 42'08		morning rise	2091 Mar 28 06:23	25°) €09'01	
direct	2090 Apr 21 19:31	12° Y 01'17		direct	2091 Apr 03 20:58	23°) €04'54	
morning max el	2090 May 06 04:44	19° Ƴ 39'58	26°40'50	desc. node	2091 Apr 04 16:47	23°) €06'47	
	2090 May 14 23:49	0°8			2091 Apr 17 04:41	0° Υ	
	-					0000055141	27°33'34
morning set	2090 Jun 01 17:12	$\Pi^{\circ}0$		morning max el	2091 Apr 18 03:49		21 33 34
asc. node	2090 Jun 01 17:12 2090 Jun 04 15:46	6° Ⅲ 03′06		morning max el	2091 Apr 18 03:49 2091 May 09 02:46	0° 8	27 33 34
				morning max el	-	0° 8 20° 8 42'42	27 3334
	2090 Jun 04 15:46	6° Ⅲ 03′06			2091 May 09 02:46	0°8 20°842'42 0°∏13'06	21 33 34
superior conj	2090 Jun 04 15:46	6° Ⅲ 03′06	0°51'48	morning set	2091 May 09 02:46 2091 May 19 23:08	0° ႘ 20° ႘ 42'42 0°Ⅲ13'06 0°Ⅲ	
superior conj minimum elong	2090 Jun 04 15:46 2090 Jun 06 13:22	6°Д03'06 10°Д05'16	0°51'48 0°51'24	morning set	2091 May 09 02:46 2091 May 19 23:08 2091 May 24 10:26	0° ႘ 20° ႘ 42'42 0°Ⅲ13'06 0°Ⅲ	1.32210 AU
	2090 Jun 04 15:46 2090 Jun 06 13:22 2090 Jun 11 16:19	6°Д03'06 10°Д05'16 21°Д16'23		morning set asc. node	2091 May 09 02:46 2091 May 19 23:08 2091 May 24 10:26 2091 May 24 08:01	0° ႘ 20° ႘ 42'42 0°Ⅲ13'06 0°Ⅲ	
minimum elong	2090 Jun 04 15:46 2090 Jun 06 13:22 2090 Jun 11 16:19 2090 Jun 11 14:18	6°Д03'06 10°Д05'16 21°Д16'23 21°Д05'15	0°51'24	morning set asc. node	2091 May 09 02:46 2091 May 19 23:08 2091 May 24 10:26 2091 May 24 08:01	0° ႘ 20° ႘ 42'42 0°Ⅲ13'06 0°Ⅲ	
minimum elong	2090 Jun 04 15:46 2090 Jun 06 13:22 2090 Jun 11 16:19 2090 Jun 11 14:18 2090 Jun 11 19:39	6°Д03'06 10°Д05'16 21°Д16'23 21°Д05'15 21°Д34'43	0°51'24	morning set asc. node max. Earth dist.	2091 May 09 02:46 2091 May 19 23:08 2091 May 24 10:26 2091 May 24 08:01 2091 May 26 07:38	0° 8 20° 8 42'42 0° П 13'06 0° П 4° П 19'37	1.32210 AU
minimum elong max. Earth dist.	2090 Jun 04 15:46 2090 Jun 06 13:22 2090 Jun 11 16:19 2090 Jun 11 14:18 2090 Jun 11 19:39 2090 Jun 15 16:00	6°П03'06 10°П05'16 21°П16'23 21°П05'15 21°П34'43 0°© 6°©14'14	0°51'24	morning set asc. node max. Earth dist. superior conj minimum elong	2091 May 09 02:46 2091 May 19 23:08 2091 May 24 10:26 2091 May 24 08:01 2091 May 26 07:38 2091 May 27 03:50	0°8 20°842'42 0°П13'06 0°П 4°П19'37 6°П10'30 6°П03'39	1.32210 AU 0°28'28
minimum elong max. Earth dist.	2090 Jun 04 15:46 2090 Jun 06 13:22 2090 Jun 11 16:19 2090 Jun 11 14:18 2090 Jun 11 19:39 2090 Jun 15 16:00 2090 Jun 18 14:08 2090 Jul 01 03:17	6°Π03'06 10°Π05'16 21°Π16'23 21°Π05'15 21°Π34'43 0°\$6 6°\$14'14 0°Ω	0°51'24	morning set asc. node max. Earth dist. superior conj	2091 May 09 02:46 2091 May 19 23:08 2091 May 24 10:26 2091 May 24 08:01 2091 May 26 07:38 2091 May 27 03:50 2091 May 27 02:36 2091 Jun 03 00:23	0°8 20°842'42 0°П13'06 0°П 4°П19'37 6°П10'30 6°П03'39 21°П05'16	1.32210 AU 0°28'28
minimum elong max. Earth dist. evening rise desc. node	2090 Jun 04 15:46 2090 Jun 06 13:22 2090 Jun 11 16:19 2090 Jun 11 14:18 2090 Jun 11 19:39 2090 Jun 15 16:00 2090 Jun 18 14:08 2090 Jul 01 03:17 2090 Jul 14 19:02	6°Π03'06 10°Π05'16 21°Π16'23 21°Π05'15 21°Π34'43 0°Θ 6°Θ14'14 0°Ω 19°Ω14'44	0°51'24 1.32229 AU	morning set asc. node max. Earth dist. superior conj minimum elong	2091 May 09 02:46 2091 May 19 23:08 2091 May 24 10:26 2091 May 24 08:01 2091 May 26 07:38 2091 May 27 03:50 2091 May 27 02:36 2091 Jun 03 00:23 2091 Jun 07 08:29	0°8 20°842'42 0° 113'06 0° 11 4° 119'37 6° 110'30 6° 1103'39 21° 1105'16 0° 15	1.32210 AU 0°28'28
minimum elong max. Earth dist. evening rise	2090 Jun 04 15:46 2090 Jun 06 13:22 2090 Jun 11 16:19 2090 Jun 11 14:18 2090 Jun 11 19:39 2090 Jun 15 16:00 2090 Jun 18 14:08 2090 Jul 01 03:17	6°Π03'06 10°Π05'16 21°Π16'23 21°Π05'15 21°Π34'43 0°\$6 6°\$14'14 0°Ω	0°51'24	morning set asc. node max. Earth dist. superior conj minimum elong	2091 May 09 02:46 2091 May 19 23:08 2091 May 24 10:26 2091 May 24 08:01 2091 May 26 07:38 2091 May 27 03:50 2091 May 27 02:36 2091 Jun 03 00:23	0°8 20°842'42 0°П13'06 0°П 4°П19'37 6°П10'30 6°П03'39 21°П05'16	1.32210 AU 0°28'28 0°28'12

desc. node	2091 Jul 01 16:03	5° Ω 41'13		evening max el	2092 Jun 11 01:53	15° © 16'33	24°06'55
retrograde	2091 Jul 14 11:45	11° Ω 43'38		desc. node	2092 Jun 17 01:33 2092 Jun 17 13:04	20° © 11'34	24 00 33
evening set	2091 Jul 20 09:29	10°Ω21'35		retrograde	2092 Jun 24 21:16	20°911'34	
min. Earth dist.	2091 Jul 20 09:29 2091 Jul 24 23:36		0.58254 AU	evening set	2092 Jun 29 09:45	22 3 13 34 21° 3 28'18	
				min. Earth dist.	2092 Jul		0.56456.411
inferior conj	2091 Jul 28 04:27	5° Ω 25'14 5° Ω 24'02				18°928'51	0.56456 AU
minimum elong	2091 Jul 28 05:07	1° Ω 05'41	4 36 39	inferior conj	2092 Jul 08 01:03	16°955'16	
morning rise	2091 Aug 05 03:08	0° Ω 45'45		minimum elong	2092 Jul 07 20:19	17°502'38	4-4208
direct	2091 Aug 07 15:34		10046126	morning rise	2092 Jul 16 09:32	12°955'12	
morning max el	2091 Aug 16 01:03	4° Ω 44'25	18°46'26	direct	2092 Jul 19 02:14	12°936'07	10044150
asc. node	2091 Aug 20 09:39	9° Ω 50'05		morning max el	2092 Jul 28 20:37	17°508'05	19°44'59
	2091 Aug 31 23:27	0° m/		asc. node	2092 Aug 06 06:42	28° © 03'47	
morning set	2091 Sep 01 11:22	0° M 58'06		. ,	2092 Aug 07 10:33	0° Ω	
	2001.0 10.01.42	150 20150	1020110	morning set	2092 Aug 15 13:57	15° Ω 25'57	
superior conj	2091 Sep 10 01:42	17° m 38'52	1°39'19		2092 Aug 22 18:57	0° т р	
minimum elong	2091 Sep 10 04:01	17° m 49'47	1°39'11		2002 4 22 11 20	10, 21, 22	1045105
	2091 Sep 16 19:05	0∘ ⊽		superior conj	2092 Aug 23 11:20	1° m/21'23	1°45'27
max. Earth dist.	2091 Sep 17 03:09	0° £ 35'45	1.39344 AU	minimum elong	2092 Aug 23 11:46	1°₩23'36	1°45'28
evening rise	2091 Sep 21 02:56	7° ≙ 31'31		max. Earth dist.	2092 Aug 29 07:41	12° m 38'53	1.37321 AU
desc. node	2091 Sep 27 15:21	18° ≙ 15'50		evening rise	2092 Sep 02 02:38	19° m 35'40	
	2091 Oct 05 06:17	0° M			2092 Sep 08 02:50	0∘ ত	
evening max el	2091 Oct 26 09:38		24°13'17	desc. node	2092 Sep 13 12:23	8° ≏ 44'45	
	2091 Oct 29 09:03	0° ∡ ¹			2092 Sep 28 08:39	0° M	
retrograde	2091 Nov 06 13:18	3° х 49′12		evening max el	2092 Oct 07 21:42	10°M56'52	25°27'52
evening set	2091 Nov 11 21:18	1° ≯ ³35'34		retrograde	2092 Oct 20 00:13	17° M 54'21	
	2091 Nov 13 12:32	30°RM		evening set	2092 Oct 25 22:34	15°M25'24	
asc. node	2091 Nov 16 08:53	26°M28'44		min. Earth dist.	2092 Oct 30 08:18	10°M33'16	0.67087 AU
min. Earth dist.	2091 Nov 16 14:57	26°M08'23	0.67629 AU	inferior conj	2092 Oct 31 11:57	9° M 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°M13′26	0°19'25	asc. node	2092 Nov 02 05:54	6°M52′21	
morning rise	2091 Nov 22 17:14	19° M 07'31		morning rise	2092 Nov 06 03:25	3° ™ 07'48	
direct	2091 Nov 26 13:54	17° M 42'28		direct	2092 Nov 09 12:26	2°M02'05	
morning max el	2091 Dec 04 11:32	22°M15'02	20°25'20	morning max el	2092 Nov 16 15:54	6° ™ 03'19	19°22'37
	2091 Dec 10 23:40	0° ∡ ¹		greatest brilliancy	2092 Nov 30 08:47	24°M32'17	-0.7m
desc. node	2091 Dec 24 14:36	19° ∡ ³38'37			2092 Dec 03 22:44	0° ∡ ¹	
	2091 Dec 31 09:32	ರ°0		desc. node	2092 Dec 10 11:38	10° ₮ 05'40	
morning set	2092 Jan 01 15:50	1° る 57'06		morning set	2092 Dec 10 15:27	10° ∡ ¹20'27	
max. Earth dist.	2092 Jan 11 09:57	17° る 20'38	1.43440 AU		2092 Dec 23 05:27	0°ප	
				max. Earth dist.	2092 Dec 24 00:15	1° る 14'12	1.44642 AU
superior conj	2092 Jan 17 14:50	27° る 28'39	-2°00'50				
minimum elong	2092 Jan 17 10:58	27°る12'37	2°00'40	superior conj	2092 Dec 27 09:52	6° る 38'06	-1°38'38
	2092 Jan 19 03:11	0° ≈		minimum elong	2092 Dec 27 01:24	6° る 04'23	1°37'54
evening rise	2092 Jan 30 01:39	18° ≈ 45'56		evening rise	2093 Jan 10 17:13	29° る 57'20	
	2092 Feb 05 12:32	0° ∀			2093 Jan 10 17:52	0° ≈	
asc. node	2092 Feb 12 08:12	10° ₩ 51'15		asc. node	2093 Jan 29 05:13	28° ≈ 25'30	
evening max el	2092 Feb 16 11:37	15° ¥ 54'28	18°08'36	evening max el	2093 Jan 29 24:00	29° ≈ 15′07	18°24'48
retrograde	2092 Feb 22 23:17	19° ₩ 18'13			2093 Jan 30 18:33	0° ∀	
evening set	2092 Feb 25 18:43	18° ∺ 38'59		retrograde	2093 Feb 05 12:07	2°) 48′02	
inferior conj	2092 Mar 03 01:54	13° ∺ 29'18	3°40'54	evening set	2093 Feb 08 12:50	1° 升 57'42	
minimum elong	2092 Mar 03 02:43	13° ∺ 27′09	3°40'51		2093 Feb 11 03:39	30°R ≈	
min. Earth dist.	2092 Mar 05 22:35	10°) 32′04	0.62333 AU	inferior conj	2093 Feb 14 10:30	26° ≈ 28'54	3°41'04
morning rise	2092 Mar 09 09:30	7° ℋ 30'06		minimum elong	2093 Feb 14 09:35	26° ≈ 31'33	3°41'01
direct	2092 Mar 16 07:48	4° ₩ 56'55		min. Earth dist.	2093 Feb 16 16:05	23° ≈ 54'28	0.64194 AU
desc. node	2092 Mar 21 13:48	6° ℋ 14'09		morning rise	2093 Feb 20 05:44	20° ≈ 21'45	
morning max el	2092 Mar 30 08:46	12° 升 52'14	27°49'44	direct	2093 Feb 27 02:31	17° ≈ 32'43	
	2092 Apr 13 00:49	0 ° Υ		desc. node	2093 Mar 08 10:50	21° ≈ 34'57	
	2092 Apr 30 12:25	9° 8		morning max el	2093 Mar 12 17:39	25° ≈ 25'26	27°29'26
morning set	2092 May 03 01:18	5° 8 03'40			2093 Mar 16 22:35	0° ∀	
max. Earth dist.	2092 May 08 16:23	16° 8 51'06	1.32583 AU		2093 Apr 06 12:27	0 ° Υ	
asc. node	2092 May 10 07:29	20° 8 22'21		morning set	2093 Apr 16 19:43	18° Ƴ 57'53	
				max. Earth dist.	2093 Apr 21 17:51	28° Y 56'31	1.33372 AU
superior conj	2092 May 10 13:25	20° 8 54'32	0°02'37		2093 Apr 22 06:02	9° 8	
minimum elong	2092 May 10 13:17	20° 8 53'50	0°02'36		-		
behind sun begin	2092 May 10 08:10	20° 8 26'05		superior conj	2093 Apr 24 19:10	5° 8 22'30	-0°24'55
behind sun end	2092 May 10 18:24	21° 8 21'37		minimum elong	2093 Apr 24 20:24	5° 8 29'07	0°24'39
	2092 May 14 17:38	$\Pi^{\circ}0$		asc. node	2093 Apr 27 04:31	10° 8 29'14	
evening rise	2092 May 17 12:09	5° Ⅱ 57'07		evening rise	2093 May 01 23:35	20° 8 43'23	
-	2092 May 30 05:57	0ಂತಾ		-	2093 May 06 12:36	$\Pi^{\circ}0$	
	•				-		

evening max el	2093 May 23 16:40	25° Ⅱ 45'05	22°30'43	asc. node	2094 Apr 14 01:33	0° 8 29'37	
evening max er	2093 May 29 03:21	0°95	22 30 43	evening rise	2094 Apr 16 08:48	5° 8 17'54	
desc. node	2093 Jun 04 10:05	2°©10'18		evening rise	2094 Apr 30 02:39	0°Ⅱ	
retrograde	2093 Jun 05 18:39	2°514'31		evening max el	2094 May 05 15:24	6° Ⅱ 33'05	21°01'50
evening set	2093 Jun 08 20:40	1°953'33		retrograde	2094 May 17 08:18	12° Ⅱ 15'29	
e venning sec	2093 Jun 13 22:42	30°R Ⅱ		evening set	2094 May 19 13:02	12° Ⅱ 04'09	
min. Earth dist.	2093 Jun 17 00:02		0.55247 AU	desc. node	2094 May 22 07:06	11° II 20'27	
inferior conj	2093 Jun 18 03:32	27° I I42'28		inferior conj	2094 May 28 21:25	8° I 105'55	-1°54'15
minimum elong	2093 Jun 17 19:35	27° I I53'45		minimum elong	2094 May 28 16:05	8° Ⅱ 13'28	
morning rise	2093 Jun 26 20:40	23° II 50'50		min. Earth dist.	2094 May 29 12:25	7° Ⅱ 44'41	0.54908 AU
direct	2093 Jun 29 19:13	23° I [31'07		morning rise	2094 Jun 06 19:04	4° Ⅱ 03'32	
morning max el	2093 Jul 11 04:51	28° Ⅱ 48'57	21°04'09	direct	2094 Jun 10 04:43	3° Ⅲ 38'32	
	2093 Jul 12 10:03	0°ಅ		morning max el	2094 Jun 23 02:41	9° ∏ 48'42	22°39'33
asc. node	2093 Jul 24 03:44	16°955'42			2094 Jul 07 16:47	0°ಅ	
morning set	2093 Jul 30 21:31	0°Ω08'58		asc. node	2094 Jul 11 00:47	6°916'33	
	2093 Jul 30 19:47	0°N		morning set	2094 Jul 15 08:06	15° © 01'45	
				<i>3 3 3 3 3 3 3 3 3 3</i>			
superior conj	2093 Aug 07 07:40	15° Ω 36′21	1°43'37	superior conj	2094 Jul 22 11:23	0° Ω 13'49	1°35'20
minimum elong	2093 Aug 07 06:38	15° Ω 30'59	1°43'35	minimum elong	2094 Jul 22 09:24	0° Ω 03'16	1°35'09
max. Earth dist.	2093 Aug 11 17:04	24° Ω 29'32	1.35524 AU		2094 Jul 22 08:47	$0^{\circ}\Omega$	
	2093 Aug 14 12:55	0° m		max. Earth dist.	2094 Jul 25 11:13	6° Ω 31'24	1.34091 AU
evening rise	2093 Aug 15 21:32	2° Mp 34'54		evening rise	2094 Jul 30 07:10	16° Ω 17'43	
desc. node	2093 Aug 31 09:24	28° m 57'19			2094 Aug 06 15:30	O° Mp	
	2093 Sep 01 01:54	0∘ ⊽		desc. node	2094 Aug 18 06:26	18° m 46'18	
evening max el	2093 Sep 20 09:42	24° £ 34'56	26°29'46		2094 Aug 26 13:57	0∘ ত	
	2093 Sep 27 07:43	0° M ₊		evening max el	2094 Sep 02 21:48	8° ഫ 03'44	27°11'23
retrograde	2093 Oct 03 06:08	1°M47'50		retrograde	2094 Sep 16 06:40	15° £ 22'17	
	2093 Oct 08 14:34	30° ₹ Ω		evening set	2094 Sep 23 05:27	12° ≏ 38'36	
evening set	2093 Oct 09 18:05	29° ≏ 07'44		min. Earth dist.	2094 Sep 27 01:16	8° £ 58'42	0.64958 AU
min. Earth dist.	2093 Oct 13 20:28	24° £ 51'54	0.66198 AU	inferior conj	2094 Sep 29 04:51	6° £ 35'29	-2°32'47
inferior conj	2093 Oct 15 11:42	22° ♀ 53'27	-1°34'15	minimum elong	2094 Sep 29 08:55	6° £ 24'11	2°31'16
minimum elong	2093 Oct 15 14:13	22° ≏ 45'51	1°33'13	morning rise	2094 Oct 05 13:19	1° ≏ 03'15	
asc. node	2093 Oct 20 02:55	18° ≏ 01'15		asc. node	2094 Oct 06 23:57	0° ჲ 33'21	
morning rise	2093 Oct 21 10:55	17° ≏ 07'38		direct	2094 Oct 08 05:35	0° ჲ 25'12	
direct	2093 Oct 24 10:20	16° ≏ 17'42		morning max el	2094 Oct 14 17:45	3° ≙ 54'19	18°04'53
morning max el	2093 Oct 31 02:47	19° ≏ 58'16	18°35'27		2094 Nov 01 03:14	0° M.	
	2093 Nov 07 20:52	0° M ₊		morning set	2094 Nov 01 16:57	0°M57'03	
morning set	2093 Nov 20 13:34	19°M55'20		desc. node	2094 Nov 14 05:42	21°M26'57	
	2093 Nov 26 21:47	0° ∡ ¹					
desc. node	2093 Nov 27 08:40	0° х 43′02		superior conj	2094 Nov 15 18:50	23°M55'20	-0°10'25
				minimum elong	2094 Nov 15 17:32	23°M50'09	0°10'14
superior conj	2093 Dec 06 12:23	15° ∡ 107'47	-0°58'48	behind sun begin	2094 Nov 15 09:08	23°M16'40	
minimum elong	2093 Dec 06 05:05	14° ₹ ³39'09	0°57'54	behind sun end	2094 Nov 16 01:56	24°M23'37	
max. Earth dist.	2093 Dec 06 18:16	15° ∡ ³30'54	1.45144 AU	max. Earth dist.	2094 Nov 19 12:59	29°M52'40	1.44906 AU
	2093 Dec 15 23:16	0°ರ			2094 Nov 19 14:51	0° ∡ ¹	
evening rise	2093 Dec 22 09:27	10° ප 11'06		evening rise	2094 Dec 02 04:28	19° ∡ ³35'40	
greatest brilliancy	2093 Dec 31 00:47	23° る 54'56	-0.8m		2094 Dec 08 22:32	ರ°0	
	2094 Jan 03 22:44	0° ≈		greatest brilliancy	2094 Dec 15 15:52	10° ප 11′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° ප 10'59	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°₽₹	
minimum elong	2094 Jan 29 02:43	9° ≈ 52'59	3°25'21	evening set	2095 Jan 07 18:35	29° る 16'56	
min. Earth dist.	2094 Jan 30 19:00	7° ≈ 46'45	0.65690 AU	inferior conj	2095 Jan 13 05:41	23° る 17'05	2°58'36
morning rise	2094 Feb 03 15:30	3° ≈ 35′09		minimum elong	2095 Jan 13 03:06	23° る 25'38	2°57'59
direct	2094 Feb 10 04:04	0° ≈ 44'18		min. Earth dist.	2095 Jan 14 05:42		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° る 03'55	
desc. node	2094 Feb 23 07:52	8° ≈ 34'18		direct	2095 Jan 24 11:32	14° る 23'12	
	2094 Mar 12 00:54	0° ∀		morning max el	2095 Feb 05 12:29	21° る 33'52	25°24'19
	2094 Mar 29 22:14	$0^{\circ}\mathbf{\Upsilon}$		desc. node	2095 Feb 10 04:54	26° る 44'02	
morning set	2094 Mar 31 02:58	2° Y 15'11			2095 Feb 12 20:52	0° ≈	
max. Earth dist.	2094 Apr 04 08:31	10° Ƴ 28'07	1.34611 AU		2095 Mar 05 06:39	0°) €	
				morning set	2095 Mar 13 18:23	14°) 41′21	
superior conj	2094 Apr 08 18:56	19° Ƴ 28'04		max. Earth dist.	2095 Mar 17 11:22	21°) 32′08	1.36308 AU
minimum elong	2094 Apr 08 21:38	19° Ƴ 41'57	0°52'26		2095 Mar 21 20:57	$0^{\circ}\mathbf{\Upsilon}$	
	2094 Apr 13 19:54	0° 8					

superior conj	2095 Mar 23 09:59	3° Ƴ 03'00	-1°19'50	max. Earth dist.	2096 Feb 27 07:05	2°) 38′54	1.38352 AU
minimum elong	2095 Mar 23 13:52	3° Y 22′21	1°19'15				
evening rise	2095 Mar 31 13:40	19° Ƴ 33'33		superior conj	2096 Mar 05 12:47	15° ¥ 58'31	-1°43'14
asc. node	2095 Mar 31 22:35	20° Ƴ 18'37		minimum elong	2096 Mar 05 17:04	16° 米 18′56	1°42'48
	2095 Apr 05 21:11	9° 8			2096 Mar 12 18:09	0° Y	
evening max el	2095 Apr 18 01:46	17° 8 57'47	19°48'41	evening rise	2096 Mar 14 11:42	3° Y 24'02	
retrograde	2095 Apr 28 00:50	22° 8 46'29		asc. node	2096 Mar 17 19:38	9° Ƴ 51'42	
evening set	2095 Apr 30 01:20	22° 8 35'29			2096 Mar 30 22:25	9° 8	
inferior conj	2095 May 08 20:53	18° 8 34'13	0°05'15	evening max el	2096 Mar 30 23:11	0° 8 01'51	18°54'54
minimum elong	2095 May 08 21:07	18° 8 33'52	0°05'10	retrograde	2096 Apr 08 08:34	4° 8 06'27	
transit middle	2095 May 08 21:07	18° 8 33'52	0°05'10	evening set	2096 Apr 10 13:28	3° 8 50'43	
transit begin	2095 May 08 17:22	18° 8 39'38			2096 Apr 17 22:54	30° ŖƳ	
transit end	2095 May 09 00:52	18° 8 28'05		inferior conj	2096 Apr 18 13:43	29° Ƴ 33'43	1°46'35
desc. node	2095 May 09 04:08	18° 8 23'02		minimum elong	2096 Apr 18 17:21	29° Y 27'14	1°45'27
min. Earth dist.	2095 May 11 02:15	17° 8 12'09	0.55542 AU	min. Earth dist.	2096 Apr 21 18:12	27° Ƴ 18'19	0.57010 AU
morning rise	2095 May 17 14:34	14° 8 03'44		desc. node	2096 Apr 25 01:09	25° Ƴ 17′25	
direct	2095 May 21 20:30	13° 8 23'46		morning rise	2096 Apr 26 18:08	24° Y 29'02	
morning max el	2095 Jun 04 17:53	20° 8 19'17	24°21'45	direct	2096 May 02 01:21	23° Y 21'49	
	2095 Jun 12 23:52	Π $^{\circ}0$			2096 May 15 12:27	0°B	
asc. node	2095 Jun 27 21:51	25° Ⅱ 57'44		morning max el	2096 May 16 08:41	0° 8 47'43	25°56'14
morning set	2095 Jun 29 19:54	29° ∏ 57'44			2096 Jun 05 19:50	$\Pi^{\circ}0$	
	2095 Jun 29 20:20	0 \circ \odot		morning set	2096 Jun 13 07:19	14° Ⅱ 51'54	
				asc. node	2096 Jun 13 18:55	15° Ⅲ 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°9500'40	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° Ⅱ 48′07	1°03'24
	2095 Jul 13 21:16	$0 {\circ} \Omega$			2096 Jun 20 06:42	0 \circ ∞	
evening rise	2095 Jul 14 03:25	0° Ω 31'17		max. Earth dist.	2096 Jun 20 23:49	1° 5 33'56	1.32425 AU
	2095 Jul 30 15:23	o° mp		evening rise	2096 Jun 27 07:03	15° © 05'44	
desc. node	2095 Aug 05 03:27	8°10 (M) °8			2096 Jul 04 21:16	$0^{\circ}\Omega$	
evening max el	2095 Aug 16 08:32	21°M/11'11	27°26'02	desc. node	2096 Jul 22 00:29	26° Ω 27'38	
retrograde	2095 Aug 30 00:58	28° m 28'37			2096 Jul 25 00:42	0° m	
evening set	2095 Sep 06 05:35	25° m 51'59		evening max el	2096 Jul 28 15:18	3° Mp 43′34	27°08'43
min. Earth dist.	2095 Sep 09 20:44	22° Mp 44'29	0.63368 AU	retrograde	2096 Aug 11 12:07	10° m 57′37	
inferior conj	2095 Sep 12 12:47	20°Mp04'18	-3°28'45	evening set	2096 Aug 18 14:27	8° Mp 40′48	
minimum elong	2095 Sep 12 17:58	19° m 51'16	3°27'11	min. Earth dist.	2096 Aug 22 05:33	5° Mp 56′51	0.61480 AU
morning rise	2095 Sep 19 07:37	14° m 48'53		inferior conj	2096 Aug 25 08:18	3° Mp 11′45	-4°17'22
direct	2095 Sep 21 19:23	14° m 19'10		minimum elong	2096 Aug 25 13:28	3°1000'16	4°16'17
asc. node	2095 Sep 23 21:01	14° Mp 40'06			2096 Aug 29 06:44	30° R Ω	
morning max el	2095 Sep 28 09:58	17° m 44'54	17°51'52	morning rise	2096 Sep 01 14:07	28° Ω 16'42	
	2095 Oct 07 05:29	0∘ ত		direct	2096 Sep 04 00:11	27° Ω 52′21	
morning set	2095 Oct 14 21:39	13° ≏ 12'09			2096 Sep 09 10:39	0° m ∕	
	2095 Oct 24 16:14	0° M.		asc. node	2096 Sep 09 18:06	0° ™ 14'49	
				morning max el	2096 Sep 11 00:26	1° m 22'48	17°57'23
superior conj	2095 Oct 26 23:05	3°M48'43	0°34'35	morning set	2096 Sep 26 21:18	26° Mp 21'32	
minimum elong	2095 Oct 27 02:29	4° ™ 02'50	0°34'07		2096 Sep 28 21:02	0∘ ত	
desc. node	2095 Nov 01 02:44	12°M14'07					
max. Earth dist.	2095 Nov 02 05:58	14°M03'36	1.43965 AU	superior conj	2096 Oct 07 06:30	15° ≏ 02'11	1°09'02
evening rise	2095 Nov 11 12:59	28°M39'39		minimum elong	2096 Oct 07 11:02	15° ≏ 21'56	1°08'30
	2095 Nov 12 09:51	0° ∡ ¹		max. Earth dist.	2096 Oct 14 18:48	27° ≏ 46'56	1.42439 AU
	2095 Dec 02 18:46	0°రె			2096 Oct 16 03:12	0° M	
evening max el	2095 Dec 10 17:08	9° る 41'55	20°53'30	desc. node	2096 Oct 17 23:46	3°ML01'01	
retrograde	2095 Dec 19 01:57	14° る 39'04		evening rise	2096 Oct 21 03:47	8° M .04'39	
asc. node	2095 Dec 20 20:17	14° る 21'44			2096 Nov 04 15:06	0° ∡ 7	
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° る 57'02	2°22'31	retrograde	2096 Dec 01 22:20	28° ∤ 49'38	
minimum elong	2095 Dec 28 08:12	7° る 05'46	2°21'43	evening set	2096 Dec 06 09:30	27° ∡ ¹02′20	
min. Earth dist.	2095 Dec 28 22:04	6° ප 18'12	0.67485 AU	asc. node	2096 Dec 06 17:20	26° х 45′49	
morning rise	2096 Jan 02 14:25	0° る 43'59		inferior conj	2096 Dec 11 17:55	20° ∡ °43′07	1°39'12
	2096 Jan 03 11:52	30°R <i>≯</i>		minimum elong	2096 Dec 11 15:52	20° х 50′13	1°38'26
direct	2096 Jan 07 23:58	28° ₹ 21'34		min. Earth dist.	2096 Dec 11 17:46	20° ∡ ¹43'36	0.67812 AU
	2096 Jan 13 00:37	ರ°0		morning rise	2096 Dec 16 22:05	14° ∡ ³31'56	
morning max el	2096 Jan 18 20:49	4° る 50'22	23°58'24	direct	2096 Dec 21 16:33	12° ∡ ³31'53	
desc. node	2096 Jan 28 01:57	15° ප් 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	ರ∘ರ	
morning set	2096 Feb 23 12:06	26° ≈ 00'44		desc. node	2097 Jan 13 22:59	5° ප 18'54	
	2096 Feb 25 19:09	0° ∀			2097 Jan 30 09:17	0° ≈	

morning set max. Earth dist.	2097 Feb 03 02:10 2097 Feb 08 03:34	5°≈58'14 14°≈23'38	1.40508 AU	max. Earth dist.	2098 Jan 21 06:06 2098 Jan 23 01:24	27° る 02'07 0°≈	1.42487 AU
superior conj	2097 Feb 15 22:39	28° ≈ 02'06	-1°59'48	superior conj	2098 Jan 28 10:21	9° ≈ 01'33	-2°04'59
minimum elong	2097 Feb 16 01:42	28° ≈ 15'51	1°59'38	minimum elong	2098 Jan 28 09:38	8° ≈ 58'30	2°04'58
	2097 Feb 17 00:42	0° ∀		evening rise	2098 Feb 08 21:44	29° ≈ 15′04	
evening rise	2097 Feb 25 23:39	16°) (40′43		_	2098 Feb 09 07:43	0° ∀	
asc. node	2097 Mar 04 16:41	29° 米 02′26 0° ⋎		asc. node	2098 Feb 19 13:42	17° ★ 43'28 25° ★ 38'10	18°07'41
evening max el	2097 Mar 05 05:53 2097 Mar 14 04:47	12° Υ 38'11	18°21'20	evening max el retrograde	2098 Feb 25 15:23 2098 Mar 04 07:11	25° X 38'10 29° X 02'45	18°0/41
retrograde	2097 Mar 14 04:47 2097 Mar 21 11:35	16°Υ14'55	16 21 20	evening set	2098 Mar 04 07:11 2098 Mar 06 23:30	28° H 29'44	
evening set	2097 Mar 23 22:25	15° Υ 51'25		inferior conj	2098 Mar 13 13:44		3°31'38
inferior conj	2097 Mar 31 03:56	11° Y 14'04	2°55'00	minimum elong	2098 Mar 13 15:43	23°) €26'57	3°31'24
minimum elong	2097 Mar 31 07:37	11° Y 06'21	2°54'12	min. Earth dist.	2098 Mar 16 17:41	20° ∺ 29'36	0.61135 AU
min. Earth dist.	2097 Apr 03 14:27	8° Y 23′05	0.58988 AU	morning rise	2098 Mar 20 06:10	17° ∺ 39'08	
morning rise	2097 Apr 07 14:11	5° Y 40′26		direct	2098 Mar 27 01:03	15° ∺ 21′20	
desc. node	2097 Apr 11 22:10	4°Υ06'55		desc. node	2098 Mar 29 19:12	15°) (42′33	25045100
direct	2097 Apr 13 19:27 2097 Apr 28 04:18	3° Y 57'26 11° Y 41'42	27907120	morning max el	2098 Apr 10 06:16 2098 Apr 16 06:47	23° 米 15'39 0° Ƴ	27°45'09
morning max el	2097 Apr 28 04.18 2097 May 12 11:18	0° 8	21 0139		2098 Apr 16 00.47 2098 May 05 15:33	0° 8	
morning set	2097 May 12 11:18 2097 May 28 16:41	29° 8 38'51		morning set	2098 May 12 22:05	14° 8 11'39	
	2097 May 28 20:44	0°II		asc. node	2098 May 18 13:01	26° 8 07'03	
asc. node	2097 May 31 15:59	5° Ⅱ 58′03		max. Earth dist.	2098 May 18 23:10	27° 8 02'15	1.32311 AU
superior conj	2097 Jun 04 18:38	14° Ⅱ 57'19	0°42'14	superior conj	2098 May 20 05:29	29° 8 47'49	0°17'45
minimum elong	2097 Jun 04 16:53	14° ∏ 47'44	0°41'54	minimum elong	2098 May 20 04:41	29° 8 43'24	0°17'35
max. Earth dist.	2097 Jun 04 12:06 2097 Jun 11 15:30	14° Ⅲ 21'23 29° Ⅲ 52'50	1.32173 AU	avanina risa	2098 May 20 07:43	0°Ⅱ 14°Ⅱ44'48	
evening rise	2097 Jun 11 15:50 2097 Jun 11 16:51	29 11 32 30		evening rise	2098 May 27 02:34 2098 Jun 03 17:41	14 Д 4448	
	2097 Jun 28 03:48	0°Ω		evening max el	2098 Jun 22 08:30	26°931'17	25°00'07
desc. node	2097 Jul 08 21:30	13° Ω 45'54		desc. node	2098 Jun 25 18:31	29° 5 27'33	23 00 07
evening max el	2097 Jul 10 15:28	15° Ω 30′29	26°18'22		2098 Jun 26 12:12	$0^{\circ}\Omega$	
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° ₹ 5	
inferior conj	2097 Aug 07 11:50	15° Ω 48'33		min. Earth dist.	2098 Jul 16 20:02	29°544'58	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°544'33	
morning rise	2097 Aug 15 04:35	11° Ω 16'23		minimum elong	2098 Jul 19 18:34	27°547'10	4°57'05
direct morning max el	2097 Aug 17 15:31 2097 Aug 25 10:04	10° Ω 55'18 14° Ω 40'06	18022'30	morning rise direct	2098 Jul 27 23:06 2098 Jul 30 13:01	23° © 34'27 23° © 15'10	
asc. node	2097 Aug 23 10:04 2097 Aug 27 15:11	14° Ω 03'26	16 22 39	morning max el	2098 Aug 08 11:37	27° 5 26'21	19°08'48
use. node	2097 Sep 05 00:06	0° m		morning max or	2098 Aug 10 21:40	0° Ω	17 00 10
morning set	2097 Sep 10 10:27	10° 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° m 26'42	1°31'26		2098 Aug 28 04:15	0° ™	
minimum elong	2097 Sep 19 17:13	27° m 42'12	1°31'09				
	2097 Sep 20 23:23	0∘ ⊽		superior conj	2098 Sep 02 15:20	10° m 44'54	1°43'00
max. Earth dist.	2097 Sep 27 02:09	10° £ 49'02	1.40521 AU	minimum elong	2098 Sep 02 16:50	10° Mp 52'07	1°42'56
evening rise desc. node	2097 Oct 01 14:23 2097 Oct 04 20:49	18° ♀ 25'10 23° ♀ 44'34		max. Earth dist.	2098 Sep 09 05:42	23° Mp 07'05 29° Mp 52'31	1.38462 AU
uese. Houe	2097 Oct 04 20:49 2097 Oct 08 19:52	0° M		evening rise	2098 Sep 13 01:01 2098 Sep 13 02:44	29° IIJ 52′31 0° <u>Ω</u>	
	2097 Oct 30 02:09	0° ⊼ ¹		desc. node	2098 Sep 21 17:51	0 — 14° ⊆ 20'06	
evening max el	2097 Nov 05 03:09	6° ∡ 747'46	23°27'25		2098 Oct 02 04:01	0°M	
retrograde	2097 Nov 15 15:57	13° ∡ *01'36		evening max el	2098 Oct 18 15:30	20°M25'30	24°46'01
evening set	2097 Nov 20 16:01	10° ∡ 757′18		retrograde	2098 Oct 30 05:41	27°M10'31	
asc. node	2097 Nov 23 14:22	7° ∡ 750′09		evening set	2098 Nov 04 19:42	24°M49'59	
min. Earth dist.	2097 Nov 25 14:29	5° ∡ 10'57	0.67794 AU	min. Earth dist.	2098 Nov 09 09:51	19°M37'23	0.67437 AU
inferior conj	2097 Nov 26 01:19	4° ∡ 33'49	0°50'05	inferior conj	2098 Nov 10 07:13	18°M26'31	
minimum elong	2097 Nov 26 00:10	4° ∡ ³37'45	0°49'36	minimum elong	2098 Nov 10 07:18	18°M26'14	0°03'35
morning rise	2097 Nov 29 16:02	30°RM 28°M 26'22		transit middle	2098 Nov 10 07:18	18°M26'14	0°03'35
morning rise direct	2097 Dec 01 08:17 2097 Dec 05 12:24	28°M26'22 26°M49'11		transit begin transit end	2098 Nov 10 04:37 2098 Nov 10 10:00	18° M .35'09 18° M .17'19	
direct	2097 Dec 03 12.24 2097 Dec 12 03:03	20 IIL4911 0° √		asc. node	2098 Nov 10 10:00 2098 Nov 10 11:24	18°M12'39	
morning max el	2097 Dec 12 03:03 2097 Dec 13 23:43		21°07'41	morning rise	2098 Nov 15 19:01	12°M25'08	
desc. node	2097 Dec 31 20:01	25° ∡ 19'37		direct	2098 Nov 19 10:23	11°ML08'52	
	2098 Jan 03 23:21	ರ°0		morning max el	2098 Nov 26 23:38	15°M27'15	19°56'48
morning set	2098 Jan 13 12:11	14° පි 38'05			2098 Dec 08 06:20	0° ∡	

desc. node	2098 Dec 18 17:05	15° ∡ ³38'52		direct	2099 Nov 03 08:57	25° £ 27'01	
morning set	2098 Dec 23 08:15	22° ҂ ¹45'53		morning max el	2099 Nov 10 06:54	29° ≏ 18'29	19°00'31
	2098 Dec 28 00:03	0°ප			2099 Nov 10 22:55	0°M	
max. Earth dist.	2099 Jan 03 15:57	10°る30'37	1.44028 AU		2099 Dec 01 15:20	0° ∡ ¹	
				morning set	2099 Dec 02 15:32	1° ∡ ³34'40	
superior conj	2099 Jan 08 20:03	18° る 50'10	-1°53'48	desc. node	2099 Dec 05 14:07	6° ∡ 10'55	
minimum elong	2099 Jan 08 13:51	18° る 24'57	1°53'26	max. Earth dist.	2099 Dec 17 08:00	24° ∡ ³35'46	1.44946 AU
	2099 Jan 15 14:17	0° ≈					
evening rise	2099 Jan 22 01:39	10° ≈ 59'00		superior conj	2099 Dec 19 06:11	27° ∡ ³37'44	-1°23'33
evening rise	2099 Feb 02 10:08	0° ∀			2099 Dec 18 21:20	27°×37'44	
1				minimum elong			1 22 37
asc. node	2099 Feb 06 10:43	5°) (45'54	10010116		2099 Dec 20 18:12	0°る	
evening max el	2099 Feb 09 03:59	8°) € 54'04	18°13'16	evening rise	2100 Jan 03 07:25	21° る 45'45	
retrograde	2099 Feb 15 14:54	12° ∺ 20'19			2100 Jan 08 08:29	0° ≈	
evening set	2099 Feb 18 12:26	11°) (36′37		evening max el	2100 Jan 23 15:48	22° ≈ 18'31	18°37'14
inferior conj	2099 Feb 24 15:12	6° 升 18'51	3°43'09	asc. node	2100 Jan 24 07:44	22° ≈ 57'36	
minimum elong	2099 Feb 24 15:14	6° 升 18'48	3°43'09	retrograde	2100 Jan 30 06:29	25°≈58'21	
min. Earth dist.	2099 Feb 27 05:50	3° 升 29′00	0.63163 AU	evening set	2100 Feb 02 09:43	25°≈02'58	
morning rise	2099 Mar 02 17:03	0°) 15'37		inferior conj	2100 Feb 08 04:20	19° ≈ 26'59	3°36'08
8 21	2099 Mar 03 01:17	30°R≈		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	0.04003710
uese. Houe							
	2099 Mar 16 21:39	0°) (25045116	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	$0^{\circ}\mathbf{\Upsilon}$		morning max el	2100 Mar 05 22:36	18° ≈ 14′22	27°10'50
morning set	2099 Apr 26 21:19	28° Y 23′04			2100 Mar 15 20:32	0° ∀	
	2099 Apr 27 16:34	$6^{\circ}B$					
max. Earth dist.	2099 May 02 05:06	9° 8 23'39	1.32858 AU				
superior conj	2099 May 04 13:42	14° 8 26'32	-0°08'56				
minimum elong	2099 May 04 14:08	14° 8 28'51	0°08'50				
behind sun begin	2099 May 04 09:43	14° 8 05'06					
behind sun end	2099 May 04 18:32	14° 8 52'38					
asc. node	2099 May 05 10:02	16° 8 16'20					
	•						
evening rise	2099 May 11 14:24	29° 8 35'27					
	2099 May 11 19:03	0°II					
	2099 May 28 18:58	0°©					
evening max el	2099 Jun 03 22:14	7° 5 04'00	23°26'03				
desc. node	2099 Jun 12 15:29	12° © 57'49					
retrograde	2099 Jun 17 12:34	13° © 51'53					
evening set	2099 Jun 21 09:17	13° © 19'10					
min. Earth dist.	2099 Jun 28 08:21	10° © 07'08	0.55847 AU				
inferior conj	2099 Jun 30 08:24	8° © 55'51	-4°22'04				
minimum elong	2099 Jun 30 01:44	9° © 05'48	4°20'49				
morning rise	2099 Jul 08 20:45	5°900'54					
direct	2099 Jul 11 15:27	4°5541'54					
morning max el	2099 Jul 22 02:29	9°932'41	20°16'13				
•			20 1013				
asc. node	2099 Aug 01 09:16	23°S21'23					
	2099 Aug 05 00:57	0° N					
morning set	2099 Aug 09 13:57	9° Ω 00'22					
superior conj	2099 Aug 17 05:57	24° Ω 42'24					
minimum elong	2099 Aug 17 05:43	24° Ω 41′10	1°45'33				
	2099 Aug 19 21:35	0°Щ					
max. Earth dist.	2099 Aug 22 11:17	5° M 00'08	1.36520 AU				
evening rise	2099 Aug 26 09:27	12° Mp 21'45					
J	2099 Sep 05 15:28	0∘ ʊ					
desc. node	2099 Sep 08 14:52	ა — 4° ჲ 42'42					
	2099 Sep 27 05:58	0° M					
avaning may al	*		25°56'19				
evening max el	2099 Oct 01 03:33	4°M05'43	25°56'18				
retrograde	2099 Oct 13 14:37	11°ML11'09					
evening set	2099 Oct 19 18:46	8°M37'05	0.66515.153				
min. Earth dist.	2099 Oct 24 01:24	3°M59'59					
inferior conj	2099 Oct 25 09:47	2°M18'11					
minimum elong	2099 Oct 25 11:22	2°M13'12	0°59'55				
	2099 Oct 27 06:59	30° ₹ Ω					
asc. node	2099 Oct 28 08:26	28° ≏ 49'13					
morning rise	2000 Oct 31 04:10	26° Ω 25'37					

morning rise

2099 Oct 31 04:19

26°**≏**25'37