superior conj	3100 Apr 23 08:39	3° 8 14'16	-0°50'22	morning set	3101 Mar 28 03:02	28° ∺ 11'19	
minimum elong	3100 Apr 23 11:16	3° 8 27'47	0°49'51	, and the second	3101 Mar 29 03:04	0° Υ	
asc. node	3100 Apr 28 09:02	13° 8 41'06		max. Earth dist.	3101 Mar 31 19:02	4° Ƴ 54'53	1.36521 AU
evening rise	3100 Apr 30 23:45	19° 8 07'49					
	3100 May 06 10:17	$\Pi^{\circ}0$		superior conj	3101 Apr 06 22:16	16° Ƴ 43'51	-1°18'08
evening max el	3100 May 20 00:21	20° Ⅱ 02'15	20°52'45	minimum elong	3101 Apr 07 02:14	17° Y ′03′29	1°17'31
retrograde	3100 May 31 13:20	25° Ⅱ 40'18			3101 Apr 13 12:23	0° 8	
evening set	3100 Jun 02 16:29	25° Ⅱ 29'30		evening rise	3101 Apr 15 04:01	3° 8 20'39	
desc. node	3100 Jun 04 23:04	24° Ⅱ 55'48		asc. node	3101 Apr 15 06:04	3° 8 31'01	
inferior conj	3100 Jun 12 00:15	21° II 31'52			3101 May 01 01:28	0°II	10041124
minimum elong min. Earth dist.	3100 Jun 11 18:32	21° II 40'01	2°00'58 0.54893 AU	evening max el	3101 May 02 11:56 3101 May 12 06:56	1° Ⅱ 29'35 6° Ⅱ 14'20	19°41'34
	3100 Jun 12 19:29 3100 Jun 20 20:17	21° Ⅱ 04'33 17° Ⅱ 28'15	0.54893 AU	retrograde evening set	3101 May 12 06:36 3101 May 14 06:42	6° П 03'27	
morning rise direct	3100 Jun 24 09:21	17 H 2813		desc. node	3101 May 14 00:42 3101 May 22 20:03	2° I 108'33	
morning max el	3100 Jul 07 10:22	23° I 16'17	22°52'05	inferior conj	3101 May 23 00:58	2° I 100'51	-0°03'36
morning max er	3100 Jul 13 10:12	0°95	22 32 03	minimum elong	3101 May 23 00:49	2° I 101'06	0°03'33
asc. node	3100 Jul 25 08:16	19° 5 34'38		transit middle	3101 May 23 00:49	2° I 101'06	0°03'33
morning set	3100 Jul 30 00:16	29°503'28		transit begin	3101 May 22 20:58	2° I 107'06	
S	3100 Jul 30 11:00	$0^{\circ}\Omega$		transit end	3101 May 23 04:39	1° Ⅱ 55'06	
				min. Earth dist.	3101 May 25 09:13	0° Ⅲ 33'15	0.55614 AU
superior conj	3100 Aug 06 02:35	14° Ω 13′07	1°36'24		3101 May 26 07:23	30° ₹ 8	
minimum elong	3100 Aug 06 00:45	14° Ω 03′23	1°36'15	morning rise	3101 May 31 16:27	27° 8 27'56	
max. Earth dist.	3100 Aug 08 23:31	20° Ω 17′05	1.33915 AU	direct	3101 Jun 05 02:04	26° 8 44'48	
evening rise	3100 Aug 13 20:47	0° Mp 12′56			3101 Jun 14 11:08	Π $^{\circ}0$	
	3100 Aug 13 18:10	0° m y		morning max el	3101 Jun 19 00:54	3° Ⅱ 43'40	24°34'44
	3100 Aug 30 23:17	0∘ ⊽			3101 Jul 07 12:11	0ංම	
desc. node	3100 Aug 31 22:24	1° ≏ 26'44		asc. node	3101 Jul 12 05:18	9°513'51	
evening max el	3100 Sep 17 08:28	21° ≙ 53'49	27°14'31	morning set	3101 Jul 14 12:04	13° © 58'53	
retrograde	3100 Sep 30 18:28	29° £ 12'17					
evening set	3100 Oct 07 17:42	26° £ 29'54	0.64010.441	superior conj	3101 Jul 21 11:25	29°504'21	1°23'45
min. Earth dist.	3100 Oct 11 13:14	22° £ 53'27	0.64810 AU	minimum elong	3101 Jul 21 09:06	28°951'46	1°23'27
inferior conj minimum elong	3100 Oct 13 18:21 3100 Oct 13 22:26	20° £ 27'39 20° £ 16'25		max. Earth dist.	3101 Jul 21 21:39 3101 Jul 23 03:16	0°Ω 2°Ω40'25	1.32907 AU
morning rise	3100 Oct 13 22:20 3100 Oct 20 04:12	20 = 10 23 14° £ 57'07	2 2/10	evening rise	3101 Jul 28 17:49	14° Ω 28'19	1.32907 AU
asc. node	3100 Oct 20 04:12 3100 Oct 21 07:28	14° ⊆ 37'07		evening risc	3101 Jul 28 17:49 3101 Aug 05 20:00	0° m)	
direct	3100 Oct 21 07:28 3100 Oct 22 19:27	14° ⊆ 20'37		desc. node	3101 Aug 18 19:25	20° m) 44'35	
morning max el	3100 Oct 22 17:27 3100 Oct 29 07:22	17° ≏ 48'26	18°01'41	desc. node	3101 Aug 26 01:12	0₀ ರ	
5 5	3100 Nov 07 05:44	0°M,		evening max el	3101 Aug 30 19:04		27°26'11
morning set	3100 Nov 16 00:32	14°M31'02		retrograde	3101 Sep 13 12:00	12° ♀ 15'50	
C	3100 Nov 25 09:39	0° ∡ ¹		evening set	3101 Sep 20 16:37	9° ≏ 41'19	
desc. node	3100 Nov 27 21:37	4° ∡ 02′26		min. Earth dist.	3101 Sep 24 07:47	6° £ 36'31	0.63175 AU
				inferior conj	3101 Sep 27 01:02	3° ჲ 55'32	-3°26'58
superior conj	3100 Nov 29 21:29	7° ∡ 14'19	-0°13'33	minimum elong	3101 Sep 27 06:25	3° £ 42′13	3°25'18
minimum elong	3100 Nov 29 19:49	7° ∡ 07'39	0°13'18		3101 Oct 01 12:14	30°R, Mp	
behind sun begin	3100 Nov 29 13:43	6° ∡ ¹43'17		morning rise	3101 Oct 03 21:36	28° m 42'02	
behind sun end	3100 Nov 30 01:55	7° ∡ 32'01		direct	3101 Oct 06 08:26	28° m 13'37	
max. Earth dist.	3100 Dec 03 23:27	13° ∡ 743'14	1.44895 AU	asc. node	3101 Oct 08 04:29	28° m/29'55	
	3100 Dec 14 09:49	0°궁			3101 Oct 11 01:47	0∘ ⊽	17050151
evening rise	3100 Dec 16 05:27	2°る48'33	0.6	morning max el	3101 Oct 12 23:45	1° 2 39'31	17°50'51
greatest brilliancy	3100 Dec 30 04:47 3101 Jan 03 06:50	24°る04'43 0°≈	-0.6m	morning set	3101 Oct 29 07:57 3101 Oct 31 02:03	26° £ 55'36 0° ™	
evening max el	3101 Jan 03 06:50 3101 Jan 11 03:55	0°≈ 9°≈54'24	19°55'28		3101 Oct 31 02:03	Ualle	
asc. node	3101 Jan 17 06:45	14°≈07'40	19 33 28	superior conj	3101 Nov 10 04:58	17° M L18'57	0°31'09
retrograde	3101 Jan 18 17:43	14°≈19'17		minimum elong	3101 Nov 10 04:38	17°ML31'35	0°30'42
evening set	3101 Jan 22 09:32	13°≈01'04		desc. node	3101 Nov 14 18:41	24°M49'44	0 30 42
inferior conj	3101 Jan 27 19:58	7°≈00'01	3°00'31	max. Earth dist.	3101 Nov 16 16:23	27°M54'11	1.43890 AU
minimum elong	3101 Jan 27 17:31	7°≈08'12			3101 Nov 17 23:49	0° ∡ ¹	
min. Earth dist.	3101 Jan 28 18:41	5° ≈ 44'09	0.66953 AU	evening rise	3101 Nov 25 14:30	11° ∡ 756′29	
morning rise	3101 Feb 02 01:16	0°≈46′26		Ç	3101 Dec 07 13:30	0°ਰ	
-	3101 Feb 02 23:25	30°₽₹		evening max el	3101 Dec 25 04:02	23° පි 26'17	21°00'56
direct	3101 Feb 07 23:54	28° る 07'09		retrograde	3102 Jan 02 15:30	28° る 27'29	
	3101 Feb 13 15:11	0° ≈		asc. node	3102 Jan 04 03:45	28° る 14'54	
morning max el	3101 Feb 19 21:58	5° ≈ 14'09	25°14'22	evening set	3102 Jan 06 16:54	26° る 54'09	
desc. node	3101 Feb 23 20:49	9° ≈ 33'04		inferior conj	3102 Jan 12 01:32	20° ♂ 41'49	2°26'15
	3101 Mar 11 00:08	0° ℋ		minimum elong	3102 Jan 11 23:01	20° る 50'29	2°25'29

min. Earth dist.	3102 Jan 12 11:30	20° ට 07'31	0.67628 AU	morning rise	3103 Jan 01 13:06	28° √ 19'49	
morning rise	3102 Jan 17 04:57	14° ₹ 28'56		direct	3103 Jan 06 06:13	26° ₹ 21'42	
direct	3102 Jan 22 13:02	12° る 08'19			3103 Jan 13 16:02	0°రె	
morning max el	3102 Feb 02 06:22	18° る 31'32	23°47'17	morning max el	3103 Jan 15 17:28	1° る 56'17	22°19'09
desc. node	3102 Feb 10 17:52	28° පි 28'12		desc. node	3103 Jan 28 14:56	18° පි 00'26	
	3102 Feb 11 21:53	0° ≈			3103 Feb 05 21:26	0° ≈	
	3102 Mar 04 03:03	0°) €		morning set	3103 Feb 18 04:41	19° ≈ 10'52	
morning set	3102 Mar 09 17:47	9°) 21′31		max. Earth dist.	3103 Feb 23 11:32	27° ≈ 55'57	1.40771 AU
max. Earth dist.	3102 Mar 13 14:24	16°) 04′15	1.38607 AU		3103 Feb 24 16:47	0° ∀	
superior conj	3102 Mar 20 23:03	29° ∺ 32'19		superior conj	3103 Mar 03 06:26	11° ∺ 28'39	
minimum elong	3102 Mar 21 03:36	29°) 53'44	1°42'08	minimum elong	3103 Mar 03 09:50	11°) 43′49	2°00'07
	3102 Mar 21 04:55	0° Υ		evening rise	3103 Mar 13 11:39	0° Υ 19'35	
evening rise	3102 Mar 30 01:03	17° Y 07'04			3103 Mar 13 07:28	0°Υ	
asc. node	3102 Apr 02 03:05	23° Y 05'11		asc. node	3103 Mar 20 00:07	12° Y 18'11	
	3102 Apr 05 20:50	0°8		evening max el	3103 Mar 29 16:50	26° Y 14'42	18°18'41
evening max el	3102 Apr 15 10:23	13° 8 35'53	18°50'03	retrograde	3103 Apr 05 21:27	29° Y 49'36	
retrograde	3102 Apr 23 16:34	17° 8 37'42		evening set	3103 Apr 08 08:17	29° Y 25'36	
evening set	3102 Apr 25 21:09	17° 8 21'47	1005155	inferior conj	3103 Apr 15 12:13	24° Y 45'58	2°47'23
inferior conj	3102 May 03 19:50	13° 8 02'35	1°37'57	minimum elong	3103 Apr 15 15:50	24° Y 38'15	2°46'34
minimum elong	3102 May 03 23:11	12° 8 56'29	1°36'54	min. Earth dist.	3103 Apr 18 22:33	21°Υ52'23	0.59166 AU
min. Earth dist.	3102 May 07 01:28	10° 8 42'47	0.57142 AU	morning rise	3103 Apr 22 20:41	19° Y 09'18	
desc. node	3102 May 09 17:04	9° 8 01'27		desc. node	3103 Apr 26 14:05	17° Y 40'32	
morning rise	3102 May 11 22:03	7° 8 54'52		direct	3103 Apr 29 03:22	17° Y 22'54	27015125
direct	3102 May 17 07:59	6° 8 43'58	26007126	morning max el	3103 May 13 12:22		27°15'25
morning max el	3102 May 31 15:58	14° 8 12'29	26°0/'36		3103 May 17 23:31	8°0	
. ,	3102 Jun 13 05:14	0° П		. ,	3103 Jun 06 11:51	0°Ⅱ 120Ⅲ24150	
morning set	3102 Jun 28 23:12	28°Ⅲ51'11 29°Ⅲ07'45		morning set	3103 Jun 13 08:03	13° Ⅲ 34'58 19° Ⅲ 11'11	
asc. node	3102 Jun 29 02:20 3102 Jun 29 12:12	29° Д 0743		asc. node	3103 Jun 15 23:24	19-ш11-11	
	3102 Juli 29 12.12	0 39		superior conj	3103 Jun 20 10:22	28° Ⅱ 55'35	0°45'28
superior conj	3102 Jul 05 22:36	14° © 00'29	1°06'33	minimum elong	3103 Jun 20 10:22 3103 Jun 20 08:32	28° I I45'26	0°45'06
minimum elong	3102 Jul 05 20:17	13°947'47	1°06'09	max. Earth dist.	3103 Jun 20 01:01	28° I I03'59	1.32092 AU
max. Earth dist.	3102 Jul 06 12:59	15° © 19'36	1.32302 AU	max. Larm dist.	3103 Jun 20 22:04	0°95	1.32072 AO
evening rise	3102 Jul 12 21:55	29° © 03'09	1.52502 AC	evening rise	3103 Jun 27 06:38	13° © 49'27	
evening rise	3102 Jul 13 08:51	0°Ω		evening rise	3103 Jul 05 10:14	0°Ω	
	3102 Jul 30 00:55	0° m)		desc. node	3103 Jul 23 13:24	26° Ω 38'45	
desc. node	3102 Aug 05 16:25	9° m) 15'05		evening max el	3103 Jul 26 00:35	29° Ω 08'52	26°11'57
evening max el	3102 Aug 13 01:16	17° m 27'39	27°05'32	evening man er	3103 Jul 26 22:40	0°m)	20 1107
retrograde	3102 Aug 26 22:12	24° m 40'27		retrograde	3103 Aug 09 00:04	6° mp 18'51	
evening set	3102 Sep 02 23:58	22° m 26'10		evening set	3103 Aug 15 11:01	4° m 36'56	
min. Earth dist.	3102 Sep 06 15:33	-	0.61259 AU	min. Earth dist.	3103 Aug 19 13:21	-	0.59192 AU
inferior conj	3102 Sep 09 18:52	17° m) 00'07			3103 Aug 22 05:44	30°R Ω	
minimum elong	3102 Sep 10 00:25	16° Mp 47'59		inferior conj	3103 Aug 22 20:18	29° Ω 32'07	-4°55'07
morning rise	3102 Sep 17 02:37	12°Mp07'12		minimum elong	3103 Aug 22 23:49	29° Ω 25'25	4°54'45
direct	3102 Sep 19 11:54	11° m 43'54		morning rise	3103 Aug 30 14:48	25° Ω 02'12	
asc. node	3102 Sep 25 01:31	13° m 55'49		direct	3103 Sep 02 01:21	24° Ω 41'49	
morning max el	3102 Sep 26 13:59	15° Mp 16'03	17°58'36	morning max el	3103 Sep 09 22:55	28° Ω 29'51	18°26'13
	3102 Oct 06 18:32	0∘ ত			3103 Sep 11 09:41	0° m	
morning set	3102 Oct 12 09:35	10° ≙ 11'51		asc. node	3103 Sep 11 22:35	0° Mg 36′55	
				morning set	3103 Sep 26 00:10	24°M 04'55	
superior conj	3102 Oct 22 15:18	28° ≙ 42'13	1°05'47		3103 Sep 29 02:05	0° ⊽	
minimum elong	3102 Oct 22 19:39	29° ≙ 01'15	1°05'14				
	3102 Oct 23 09:07	0°M		superior conj	3103 Oct 05 00:51	11° ≙ 13'40	1°28'50
max. Earth dist.	3102 Oct 30 04:57	11°M35'46	1.42305 AU	minimum elong	3103 Oct 05 04:15	11° ≏ 29'24	1°28'31
desc. node	3102 Nov 01 15:44	15°M36'53		max. Earth dist.	3103 Oct 12 11:57	24° ≏ 34'28	1.40347 AU
evening rise	3102 Nov 05 07:42	21°M30'09			3103 Oct 15 16:26	0°M₊	
	3102 Nov 10 18:29	0° ∡		evening rise	3103 Oct 16 21:14	2°M00'06	
	3102 Dec 01 20:52	0° ろ		desc. node	3103 Oct 19 12:44	6°M20'28	
evening max el	3102 Dec 07 22:45	6° る 59'35	22°16'09		3103 Nov 04 02:55	0° ∡ 7	
retrograde	3102 Dec 17 11:49	12°る40'14		evening max el	3103 Nov 20 13:13	20° 🖈 35'06	23°35'59
evening set	3102 Dec 22 00:31	10°る50'43		retrograde	3103 Dec 01 05:14	26° ₹ 53'21	
asc. node	3102 Dec 22 00:45	10°る50'14	104426	evening set	3103 Dec 06 06:45	24° 🖈 47'19	
inferior conj	3102 Dec 27 08:59	4°る30'22	1°44'26	asc. node	3103 Dec 08 21:48	22° × ⁷ 02'46	0.67046.137
minimum elong	3102 Dec 27 06:52	4°₹37'41	1°43'38	min. Earth dist.	3103 Dec 11 04:07	19° × 705'06	0.67846 AU
min. Earth dist.	3102 Dec 27 07:24	4°₹35'49	0.67915 AU	inferior conj	3103 Dec 11 16:28	18° 🗷 22'53	0°56'15
	3102 Dec 30 20:32	30°R. ✓		minimum elong	3103 Dec 11 15:11	18° ≯ 27'16	0°55'43

morning rise	3103 Dec 16 23:36	12° ∡ 16'26		transit begin	3104 Nov 24 19:28	2° ₹ 26'43	
direct	3103 Dec 16 23.36 3103 Dec 21 02:30	12 x ·10 20 10° x ⁷ 41'09		transit end	3104 Nov 24 19.28 3104 Nov 25 00:54	2°×708'46	
morning max el	3103 Dec 21 02.30 3103 Dec 29 10:34	10 x ·41 09 15° x 30'39	20°57'44	asc. node	3104 Nov 24 18:52	2°×10846 2°×128'42	
morning max er	3104 Jan 09 23:15	0° 궁	20 37 44	asc. node	3104 Nov 24 18.52 3104 Nov 26 16:57	2 x ·2842 30°RM	
desc. node	3104 Jan 15 11:58	7°る58'50		mamina rias	3104 Nov 30 10:31	26°M17'24	
morning set	3104 Jan 28 12:16	7 33830 27° 3 45'08		morning rise direct	3104 Nov 30 10.31 3104 Dec 04 00:47	25°ML02'57	
morning set	3104 Jan 28 12:16 3104 Jan 29 22:39	2/° ⊘ 4308					10040122
max. Earth dist.	3104 Jan 29 22.39 3104 Feb 05 14:55	0 ≈ 10°≈41'12	1.42723 AU	morning max el	3104 Dec 11 11:25 3104 Dec 12 04:24	29° I L16'12 0° ∡ 7	19 46 23
max. Earm dist.	3104 Feb 03 14.33	10 ≈41 12	1.42723 AU	araataat brillianas		0 x . 16° x 58'17	-0.7m
	2104 F 1 12 15 10	2202011 1	2007/27	greatest brilliancy	3104 Dec 24 21:08		-U. /III
superior conj	3104 Feb 12 15:10	22°≈20'11		desc. node	3105 Jan 01 09:01	28° ₹ 16'26	
minimum elong	3104 Feb 12 14:42	22°≈18'11	2°06'27		3105 Jan 02 12:06	0°る	
	3104 Feb 17 02:09	0°) (40)25		morning set	3105 Jan 06 08:14	5°る54'14	1 44014 411
evening rise	3104 Feb 24 07:47	12°) 48′25		max. Earth dist.	3105 Jan 18 01:38	24° ප 15'21	1.44214 AU
	3104 Mar 05 05:20	0°Υ			3105 Jan 21 15:46	0° ≈	
asc. node	3104 Mar 05 21:09	1°Υ02'30	10005105		2105 7 22 21 51	20 01110	1055150
evening max el	3104 Mar 12 03:57	9° Υ 16'41	18°07'07	superior conj	3105 Jan 22 21:54	2°≈01'40	
retrograde	3104 Mar 18 18:29	12° Y 40′19		minimum elong	3105 Jan 22 15:40	1°≈36'25	1°55'31
evening set	3104 Mar 21 11:11	12° Y 06′20		evening rise	3105 Feb 05 09:04	24°≈25'18	
inferior conj	3104 Mar 27 23:54	7° ℃ 06'15	3°25'45		3105 Feb 08 15:40	0° ∀	
minimum elong	3104 Mar 28 02:01	7° Y 01′05	3°25'29	asc. node	3105 Feb 20 18:11	19° 米 09'16	
min. Earth dist.	3104 Mar 31 02:56	4° Υ 03'33	0.61339 AU	evening max el	3105 Feb 23 16:41	22°) 34′05	18°14'44
morning rise	3104 Apr 03 15:03	1° Υ 11'02		retrograde	3105 Mar 02 03:14	26° ∺ 00'19	
	3104 Apr 05 15:34	30° ₹ ₩		evening set	3105 Mar 05 01:32	25° ∺ 15′08	
direct	3104 Apr 10 10:07	28° ¥ 50′55		inferior conj	3105 Mar 11 02:55	19° ∺ 55'33	
desc. node	3104 Apr 12 11:08	29°) €02'48		minimum elong	3105 Mar 11 03:11	19° ∺ 54'51	3°39'24
	3104 Apr 15 10:52	0 ° $\mathbf{\Upsilon}$		min. Earth dist.	3105 Mar 13 16:17	17° ₩ 06'56	0.63373 AU
morning max el	3104 Apr 24 15:05	6° Ƴ 47'17	27°48'17	morning rise	3105 Mar 17 03:52	13° ¥ 50′11	
	3104 May 12 04:35	9° 8		direct	3105 Mar 24 01:50	11° ∺ 07'15	
morning set	3104 May 27 12:41	28° 8 03'28		desc. node	3105 Mar 30 08:11	12° 升 59'46	
	3104 May 28 11:16	Π $^{\circ}0$		morning max el	3105 Apr 06 22:30	19° ₩ 04'25	27°43'40
asc. node	3104 Jun 01 20:28	9° Ⅱ 19'05			3105 Apr 16 04:53	0 ° Υ	
max. Earth dist.	3104 Jun 02 11:22	10° Ⅱ 39'57	1.32279 AU		3105 May 05 02:33	9° 8	
				morning set	3105 May 11 10:49	12° 8 09'30	
superior conj	3104 Jun 03 21:01	13° Ⅱ 43'35	0°21'11	max. Earth dist.	3105 May 16 16:13	22° 8 55'32	1.32889 AU
minimum elong	3104 Jun 03 20:04	13° Ⅲ 38′20	0°20'59				
evening rise	3104 Jun 10 17:52	28° Ⅲ 39'55		superior conj	3105 May 19 04:46	28° 8 18'47	-0°05'36
	3104 Jun 11 08:59	0°€		minimum elong	3105 May 19 05:02	28° 8 20'15	0°05'32
	3104 Jun 28 05:02	$0^{\circ}\Omega$		behind sun begin	3105 May 19 00:02	27° 8 53'24	
evening max el	3104 Jul 06 16:51	10° Ω 04'28	24°51'15	behind sun end	3105 May 19 10:01	28° 8 47'07	
desc. node	3104 Jul 09 10:24	12° Ω 28'38		asc. node	3105 May 19 17:31	29° 8 27'29	
retrograde	3104 Jul 20 15:43	17° Ω 08'33			3105 May 19 23:32	Π $^{\circ}0$	
evening set	3104 Jul 25 22:11	16° Ω 05'28		evening rise	3105 May 26 05:42	13° Ⅲ 28'29	
min. Earth dist.	3104 Jul 31 04:17	13° Ω 17'53	0.57219 AU	-	3105 Jun 03 14:06	0ಂತಾ	
inferior conj	3104 Aug 03 02:17	11° Ω 22'39	-5°04'10	evening max el	3105 Jun 18 06:15	20°533'17	23°15'58
minimum elong	3104 Aug 03 00:58	11° Ω 24'49	5°04'07	desc. node	3105 Jun 26 07:26	26°©10'24	
morning rise	3104 Aug 11 06:21	7° Ω 14'39		retrograde	3105 Jul 01 18:39	27°©18'22	
direct	3104 Aug 13 20:42	6° Ω 55'28		evening set	3105 Jul 05 12:51	26°5947'28	
morning max el	3104 Aug 22 23:19	11° Ω 11'22	19°15'01	min. Earth dist.	3105 Jul 12 15:55	23°533'02	0.55687 AU
asc. node	3104 Aug 28 19:41	18° Ω 18′04		inferior conj	3105 Jul 14 12:24	22°527'44	-4°30'33
	3104 Sep 04 16:15	0° m		minimum elong	3105 Jul 14 05:36	22°537'46	4°29'18
morning set	3104 Sep 08 23:51	8° Mp 24'34		morning rise	3105 Jul 23 00:47	18° © 34'17	
C	•			direct	3105 Jul 25 21:07	18°9514'40	
superior conj	3104 Sep 17 04:04	24° m 37'42	1°41'19	morning max el	3105 Aug 05 12:35	23°510'57	20°25'17
minimum elong	3104 Sep 17 05:44	24° m 45'49	1°41'15	Č	3105 Aug 11 08:37	$0^{\circ}\Omega$	
S	3104 Sep 19 23:15	0∘ <u>⊽</u>		asc. node	3105 Aug 15 16:45	6° Ω 45'04	
max. Earth dist.	3104 Sep 23 15:50	6° ≏ 51'34	1.38270 AU	morning set	3105 Aug 24 05:34	23° Ω 01'51	
evening rise	3104 Sep 27 10:36	13° ≏ 36'34		Č	3105 Aug 27 14:45	0° m	
desc. node	3104 Oct 05 09:46	26° £ 56'53			2	7	
	3104 Oct 07 07:54	0°M		superior conj	3105 Aug 31 19:56	8° m 39'06	1°44'57
	3104 Oct 29 01:56	0° ∡ 7		minimum elong	3105 Aug 31 19:55	8° m 39'01	1°44'57
evening max el	3104 Nov 02 01:42	4° ₹ 15'04	24°53'58	max. Earth dist.	3105 Sep 05 22:20	18° m 45'34	1.36324 AU
retrograde	3104 Nov 13 18:41	11° ₹ '03'11		evening rise	3105 Sep 09 21:04	26° Mp 12'09	
evening set	3104 Nov 19 10:00	8° ∡ '41'39		<i>G</i>	3105 Sep	0° ರ	
min. Earth dist.	3104 Nov 23 23:17	3° ₹ 33'18	0.67442 AU	desc. node	3105 Sep 22 06:47	0 — 17° Ω 20'44	
inferior conj	3104 Nov 24 22:15	2° × 17'29	0°02'55		3105 Sep 30 18:53	0°M	
minimum elong	3104 Nov 24 22:11	2° х 17'24	0°02'52	evening max el	3105 Oct 15 14:02	17°M56'46	26°02'50
transit middle	3104 Nov 24 22:11	2° × 17'44	0°02'52	retrograde	3105 Oct 28 03:11	25°M03'52	
	3.2 2. 22. 11	=/ 17			200 200 20 00.11	10.00.02	

evening set	3105 Nov 03 08:26	22°M29'35		evening max el	3106 Sep 28 02:34	1°ML33'01	26°54'55
min. Earth dist.	3105 Nov 07 14:24	17°M56'40	0.66699 AU	retrograde	3106 Oct 11 06:10	8°M49'02	20 3433
inferior conj	3105 Nov 09 00:28	16°M10'27		evening set	3106 Oct 17 00:10 3106 Oct 17 23:56	6°M07'15	
minimum elong	3105 Nov 09 01:55	16°M05'56	0°53'46	min. Earth dist.	3106 Oct 21 23:04	2°M10'37	0.65606 AU
asc. node	3105 Nov 11 15:55	13°ML02'15	0 23 10	inferior conj	3106 Oct 23 21:02	29° £ 57'47	
morning rise	3105 Nov 14 19:48	10°M19'23		minimum elong	3106 Oct 24 00:10	29° Ω 48'43	
direct	3105 Nov 17 23:24	9°M22'33		minimum crong	3106 Oct 23 20:16	30°R Ω	1 32 17
morning max el	3105 Nov 24 19:36	13°M10'10	18°53'59	asc. node	3106 Oct 29 12:58	24° Ω 35'41	
	3105 Dec 07 05:12	0° ⊼ 7		morning rise	3106 Oct 30 01:10	24° £ 18'54	
morning set	3105 Dec 16 17:56	14° × 751'38		direct	3106 Nov 01 20:20	23° Ω 35'58	
desc. node	3105 Dec 19 06:02	18° ∡ ¹47'17		morning max el	3106 Nov 08 09:09	27° ♀ 08'05	18°15'55
	3105 Dec 26 09:43	0°8			3106 Nov 10 22:04	0°M	
max. Earth dist.	3105 Dec 31 18:16	8° る 24'18	1.45061 AU	morning set	3106 Nov 27 07:56	25°M15'33	
				3	3106 Nov 30 06:00	0° ⊼ ¹	
superior conj	3106 Jan 02 06:23	10° る 46'22	-1°25'59	desc. node	3106 Dec 06 03:04	9° ∡ 127'20	
minimum elong	3106 Jan 01 21:19	10° る 10'39	1°25'02				
Č	3106 Jan 14 08:21	0° ≈		superior conj	3106 Dec 12 08:40	19° ∡ ¹20'36	-0°41'25
evening rise	3106 Jan 17 11:46	5°≈04'43		minimum elong	3106 Dec 12 03:23	18° ∡ 59'47	0°40'42
8	3106 Feb 02 07:24	0°) €		max. Earth dist.	3106 Dec 14 13:43	22° ∡ ¹49'17	1.45172 AU
evening max el	3106 Feb 07 04:17	5°) 59'57	18°40'42		3106 Dec 19 03:38	5°0	
asc. node	3106 Feb 07 15:13	6°) €27'05		evening rise	3106 Dec 28 15:43	14° る 50'41	
retrograde	3106 Feb 13 19:33	9°) (41'03		<i>8</i>	3107 Jan 07 09:30	0° ≈	
evening set	3106 Feb 16 23:50	8°) (43'44		greatest brilliancy	3107 Jan 09 05:01	2°≈46'45	-0.7m
inferior conj	3106 Feb 22 17:17	3° ¥ 06'10	3°34'41	evening max el	3107 Jan 21 12:27	19° ≈ 29'25	19°23'42
minimum elong	3106 Feb 22 16:03	3° ¥ 09'56	3°34'34	asc. node	3107 Jan 25 12:14	22° ≈ 42'15	
min. Earth dist.	3106 Feb 24 14:58	0°) 47′59	0.65080 AU	retrograde	3107 Jan 28 16:05	23° ≈ 35'55	
	3106 Feb 25 07:23	30°R ≈		evening set	3107 Feb 01 03:19	22° ≈ 25'31	
morning rise	3106 Feb 28 07:48	26°≈55'36		inferior conj	3107 Feb 06 15:37	16° ≈ 32'04	3°16'10
direct	3106 Mar 07 00:37	24°≈04'22		minimum elong	3107 Feb 06 13:27	16° ≈ 39'08	3°15'47
desc. node	3106 Mar 17 05:13	28°≈57'34		min. Earth dist.	3107 Feb 07 22:13	14° ≈ 52'45	0.66388 AU
	3106 Mar 18 09:29	0° \		morning rise	3107 Feb 11 23:20	10°≈19'03	
morning max el	3106 Mar 20 08:08	1°) 52′10	27°05'14	direct	3107 Feb 18 05:29	7° ≈ 32'40	
5 5	3106 Apr 10 08:53	0° Υ		morning max el	3107 Mar 02 17:44	14°≈58'30	26°00'10
morning set	3106 Apr 24 23:29	25° Ƴ 44'04		desc. node	3107 Mar 04 02:15	16° ≈ 22'56	
	3106 Apr 27 03:49	0°8			3107 Mar 15 01:30	0° ∀	
max. Earth dist.	3106 Apr 29 11:57	4° 8 41'40	1.33948 AU		3107 Apr 03 04:21	o°Υ	
	r			morning set	3107 Apr 07 22:37	8° Y '34'27	
superior conj	3106 May 03 07:32	12° 8 35'01	-0°33'52	max. Earth dist.	3107 Apr 11 20:17	15° Y 57'10	1.35464 AU
minimum elong	3106 May 03 09:17	12° 8 44'11					
asc. node	3106 May 06 14:33	19° 8 32'30		superior conj	3107 Apr 17 02:48	26° Y 23'45	-1°02'22
evening rise							
	3106 May 10 16:17			minimum elong	•		1°01'48
	3106 May 10 16:17 3106 May 11 13:35	28° 8 09'06		minimum elong	3107 Apr 17 06:03	26° Y '40'12	1°01'48
· ·	3106 May 11 13:35	28° ႘ 09'06 0°Ⅲ		_	3107 Apr 17 06:03 3107 Apr 18 21:14	26° Ƴ 40'12 0° ႘	1°01'48
evening max el	3106 May 11 13:35 3106 May 29 21:52	28° ႘ 09'06 0°Ⅲ 0°ᢒ	21°41'38	asc. node	3107 Apr 17 06:03 3107 Apr 18 21:14 3107 Apr 23 11:33	26° Y 40'12 0° 엉 9° 엉 29'07	1°01'48
evening max el	3106 May 11 13:35 3106 May 29 21:52 3106 May 31 00:13	28°႘09'06 0°Ⅱ 0°໑ 1°໑06'48	21°41'38	_	3107 Apr 17 06:03 3107 Apr 18 21:14 3107 Apr 23 11:33 3107 Apr 24 23:31	26°Y40'12 0° 엉 9° 엉 29'07 12° 엉 34'07	1°01'48
retrograde	3106 May 11 13:35 3106 May 29 21:52 3106 May 31 00:13 3106 Jun 12 10:15	28°\(\mathbf{O}\)9'06 0°\(\mathbf{I}\) 0°\(\mathbf{O}\) 1°\(\mathbf{O}\)6'48 7°\(\mathbf{O}\)13'38	21°41'38	asc. node evening rise	3107 Apr 17 06:03 3107 Apr 18 21:14 3107 Apr 23 11:33 3107 Apr 24 23:31 3107 May 04 03:15	26°Y40'12 0°℧ 9°℧29'07 12°℧34'07 0°Ⅱ	
retrograde desc. node	3106 May 11 13:35 3106 May 29 21:52 3106 May 31 00:13 3106 Jun 12 10:15 3106 Jun 13 04:27	28° 8 09'06 0°II 0°S 1°S06'48 7°S13'38 7°S12'19	21°41'38	asc. node evening rise evening max el	3107 Apr 17 06:03 3107 Apr 18 21:14 3107 Apr 23 11:33 3107 Apr 24 23:31 3107 May 04 03:15 3107 May 13 04:38	26°Y40'12 0°8 9°829'07 12°834'07 0°Ⅲ 12°Ⅲ10'09	1°01'48 20°20'05
retrograde desc. node evening set	3106 May 11 13:35 3106 May 29 21:52 3106 May 31 00:13 3106 Jun 12 10:15 3106 Jun 13 04:27 3106 Jun 14 23:05	28°809'06 0°II 0°S 1°S06'48 7°S13'38 7°S12'19 6°S59'08		asc. node evening rise evening max el retrograde	3107 Apr 17 06:03 3107 Apr 18 21:14 3107 Apr 23 11:33 3107 Apr 24 23:31 3107 May 04 03:15 3107 May 13 04:38 3107 May 23 23:45	26°Y40'12 0°℧ 9°℧29'07 12°℧34'07 0°頂 12°頂10'09 17°頂25'29	
retrograde desc. node evening set inferior conj	3106 May 11 13:35 3106 May 29 21:52 3106 May 31 00:13 3106 Jun 12 10:15 3106 Jun 13 04:27 3106 Jun 14 23:05 3106 Jun 24 08:30	28°809'06 0°II 0°© 1°©06'48 7°©13'38 7°©12'19 6°©55'08 2°©57'22	-3°07'39	asc. node evening rise evening max el retrograde evening set	3107 Apr 17 06:03 3107 Apr 18 21:14 3107 Apr 23 11:33 3107 Apr 24 23:31 3107 May 04 03:15 3107 May 13 04:38 3107 May 23 23:45 3107 May 25 23:58	26°Y40'12 0°℧ 9°℧29'07 12°℧34'07 0°Ⅲ 12°Ⅲ10'09 17°Ⅲ25'29 17°Ⅲ15'20	
retrograde desc. node evening set inferior conj minimum elong	3106 May 11 13:35 3106 May 29 21:52 3106 May 31 00:13 3106 Jun 12 10:15 3106 Jun 13 04:27 3106 Jun 14 23:05 3106 Jun 24 08:30 3106 Jun 24 00:35	28°809'06 0°II 0°© 1°©06'48 7°©13'38 7°©12'19 6°©59'08 2°©57'22 3°©08'25	-3°07'39 3°05'14	asc. node evening rise evening max el retrograde evening set desc. node	3107 Apr 17 06:03 3107 Apr 18 21:14 3107 Apr 23 11:33 3107 Apr 24 23:31 3107 May 04 03:15 3107 May 13 04:38 3107 May 23 23:45 3107 May 25 23:58 3107 May 31 01:28	26°Y40'12 0°8 9°829'07 12°834'07 0°Ⅲ 12°Ⅲ10'09 17°Ⅲ25'29 17°Ⅲ15'20 15°Ⅲ31'41	20°20'05
retrograde desc. node evening set inferior conj	3106 May 11 13:35 3106 May 29 21:52 3106 May 31 00:13 3106 Jun 12 10:15 3106 Jun 13 04:27 3106 Jun 14 23:05 3106 Jun 24 08:30	28°809'06 0°II 0°© 1°©06'48 7°©13'38 7°©12'19 6°©59'08 2°©57'22 3°©08'25 3°©04'58	-3°07'39	asc. node evening rise evening max el retrograde evening set desc. node inferior conj	3107 Apr 17 06:03 3107 Apr 18 21:14 3107 Apr 23 11:33 3107 Apr 24 23:31 3107 May 04 03:15 3107 May 13 04:38 3107 May 23 23:45 3107 May 25 23:58	26°Y40'12 0°♥ 9°♥29'07 12°♥34'07 0°Ⅲ 12°Ⅲ10'09 17°Ⅲ25'29 17°Ⅲ15'20 15°Ⅲ31'41 13°Ⅲ17'02	20°20'05 -1°11'53
retrograde desc. node evening set inferior conj minimum elong min. Earth dist.	3106 May 11 13:35 3106 May 29 21:52 3106 May 31 00:13 3106 Jun 12 10:15 3106 Jun 13 04:27 3106 Jun 14 23:05 3106 Jun 24 08:30 3106 Jun 24 00:35 3106 Jun 24 03:03 3106 Jun 30 04:53	28°809'06 0°II 0°© 1°©06'48 7°©13'38 7°©12'19 6°©59'08 2°©57'22 3°©08'25 3°©04'58 30°RII	-3°07'39 3°05'14	asc. node evening rise evening max el retrograde evening set desc. node inferior conj minimum elong	3107 Apr 17 06:03 3107 Apr 18 21:14 3107 Apr 23 11:33 3107 Apr 24 23:31 3107 May 04 03:15 3107 May 13 04:38 3107 May 23 23:45 3107 May 25 23:58 3107 May 31 01:28 3107 Jun 04 03:15 3107 Jun 03 23:52	26°Y40'12 0°႘ 9°႘29'07 12°႘34'07 0°Щ 12°Щ10'09 17°Щ25'29 17°Щ15'20 15°Щ31'41 13°Щ17'02 13°Щ22'00	20°20'05 -1°11'53 1°10'39
retrograde desc. node evening set inferior conj minimum elong min. Earth dist. morning rise	3106 May 11 13:35 3106 May 29 21:52 3106 May 31 00:13 3106 Jun 12 10:15 3106 Jun 13 04:27 3106 Jun 14 23:05 3106 Jun 24 08:30 3106 Jun 24 03:03 3106 Jun 24 03:03 3106 Jun 30 04:53 3106 Jul 03 03:14	28°809'06 0° II 0° II 0° II 1° II	-3°07'39 3°05'14	asc. node evening rise evening max el retrograde evening set desc. node inferior conj minimum elong min. Earth dist.	3107 Apr 17 06:03 3107 Apr 18 21:14 3107 Apr 23 11:33 3107 Apr 24 23:31 3107 May 04 03:15 3107 May 13 04:38 3107 May 23 23:45 3107 May 25 23:58 3107 May 31 01:28 3107 Jun 04 03:15 3107 Jun 03 23:52 3107 Jun 05 15:26	26°Y40'12 0°႘ 9°႘29'07 12°႘34'07 0°Щ 12°Щ10'09 17°Щ25'29 17°Щ15'20 15°Щ31'41 13°Щ17'02 13°Щ22'00 12°Щ24'02	20°20'05 -1°11'53
retrograde desc. node evening set inferior conj minimum elong min. Earth dist.	3106 May 11 13:35 3106 May 29 21:52 3106 May 31 00:13 3106 Jun 12 10:15 3106 Jun 13 04:27 3106 Jun 14 23:05 3106 Jun 24 08:30 3106 Jun 24 03:03 3106 Jun 24 03:03 3106 Jun 30 04:53 3106 Jul 03 03:14 3106 Jul 06 08:38	28°809'06 0° II 0° © 1° © 06'48 7° © 13'38 7° © 12'19 6° © 59'08 2° © 57'22 3° © 08'25 3° © 04'58 30° R.II 29° II 03'38 28° II 40'52	-3°07'39 3°05'14	asc. node evening rise evening max el retrograde evening set desc. node inferior conj minimum elong min. Earth dist. morning rise	3107 Apr 17 06:03 3107 Apr 18 21:14 3107 Apr 23 11:33 3107 Apr 24 23:31 3107 May 04 03:15 3107 May 13 04:38 3107 May 23 23:45 3107 May 25 23:58 3107 May 31 01:28 3107 Jun 04 03:15 3107 Jun 03 23:52 3107 Jun 05 15:26 3107 Jun 12 22:33	26°Y40'12 0°♥ 9°♥29'07 12°♥34'07 0°Ⅲ 12°Ⅲ10'09 17°Ⅲ25'29 17°Ⅲ15'20 15°Ⅲ31'41 13°Ⅲ17'02 13°Ⅲ22'00 12°Ⅲ24'02 9°Ⅲ02'52	20°20'05 -1°11'53 1°10'39
retrograde desc. node evening set inferior conj minimum elong min. Earth dist. morning rise direct	3106 May 11 13:35 3106 May 29 21:52 3106 May 31 00:13 3106 Jun 12 10:15 3106 Jun 13 04:27 3106 Jun 14 23:05 3106 Jun 24 08:30 3106 Jun 24 03:03 3106 Jun 24 03:03 3106 Jun 30 04:53 3106 Jul 03 03:14 3106 Jul 06 08:38 3106 Jul 12 04:54	28°809'06 0°II 0°S 1°S06'48 7°S13'38 7°S12'19 6°S59'08 2°S57'22 3°S08'25 3°S08'25 30°RII 29°II03'38 28°II40'52 0°S	-3°07'39 3°05'14 0.54916 AU	asc. node evening rise evening max el retrograde evening set desc. node inferior conj minimum elong min. Earth dist. morning rise direct	3107 Apr 17 06:03 3107 Apr 18 21:14 3107 Apr 23 11:33 3107 Apr 24 23:31 3107 May 04 03:15 3107 May 13 04:38 3107 May 23 23:45 3107 May 25 23:58 3107 May 31 01:28 3107 Jun 04 03:15 3107 Jun 03 23:52 3107 Jun 05 15:26 3107 Jun 12 22:33 3107 Jun 16 19:20	26°Y40'12 0°♥ 9°♥29'07 12°♥34'07 0°Ⅲ 12°Ⅲ10'09 17°Ⅲ25'29 17°Ⅲ15'20 15°Ⅲ31'41 13°Ⅲ17'02 13°Ⅲ22'00 12°Ⅲ24'02 9°Ⅲ02'52 8°Ⅲ30'34	20°20'05 -1°11'53 1°10'39 0.55087 AU
retrograde desc. node evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el	3106 May 11 13:35 3106 May 29 21:52 3106 May 31 00:13 3106 Jun 12 10:15 3106 Jun 13 04:27 3106 Jun 14 23:05 3106 Jun 24 08:30 3106 Jun 24 00:35 3106 Jun 24 03:03 3106 Jun 30 04:53 3106 Jul 03 03:14 3106 Jul 06 08:38 3106 Jul 12 04:54 3106 Jul 18 14:17	28°809'06 0°II 0°S 1°S06'48 7°S13'38 7°S12'19 6°S59'08 2°S57'22 3°S08'25 3°S04'58 30°RII 29°II03'38 28°II40'52 0°S 4°S26'08	-3°07'39 3°05'14	asc. node evening rise evening max el retrograde evening set desc. node inferior conj minimum elong min. Earth dist. morning rise	3107 Apr 17 06:03 3107 Apr 18 21:14 3107 Apr 23 11:33 3107 Apr 24 23:31 3107 May 04 03:15 3107 May 13 04:38 3107 May 23 23:45 3107 May 25 23:58 3107 May 31 01:28 3107 Jun 04 03:15 3107 Jun 03 23:52 3107 Jun 05 15:26 3107 Jun 12 22:33 3107 Jun 16 19:20 3107 Jun 30 07:25	26°Y40'12 0°♥ 9°♥29'07 12°♥34'07 0°Ⅲ 12°Ⅲ10'09 17°Ⅲ25'29 17°Ⅲ15'20 15°Ⅲ31'41 13°Ⅲ17'02 13°Ⅲ22'00 12°Ⅲ24'02 9°Ⅲ02'52 8°Ⅲ30'34 15°Ⅲ05'06	20°20'05 -1°11'53 1°10'39
retrograde desc. node evening set inferior conj minimum elong min. Earth dist. morning rise direct	3106 May 11 13:35 3106 May 29 21:52 3106 May 31 00:13 3106 Jun 12 10:15 3106 Jun 13 04:27 3106 Jun 14 23:05 3106 Jun 24 08:30 3106 Jun 24 00:35 3106 Jun 24 03:03 3106 Jun 30 04:53 3106 Jul 03 03:14 3106 Jul 06 08:38 3106 Jul 12 04:54 3106 Jul 18 14:17 3106 Aug 02 13:48	28°809'06 0°II 0°S 1°S06'48 7°S13'38 7°S12'19 6°S59'08 2°S57'22 3°S08'25 3°S04'58 30°RII 29°II03'38 28°II40'52 0°S 4°S26'08 25°S47'07	-3°07'39 3°05'14 0.54916 AU	asc. node evening rise evening max el retrograde evening set desc. node inferior conj minimum elong min. Earth dist. morning rise direct morning max el	3107 Apr 17 06:03 3107 Apr 18 21:14 3107 Apr 23 11:33 3107 Apr 24 23:31 3107 May 04 03:15 3107 May 13 04:38 3107 May 23 23:45 3107 May 25 23:58 3107 May 31 01:28 3107 Jun 04 03:15 3107 Jun 03 23:52 3107 Jun 05 15:26 3107 Jun 12 22:33 3107 Jun 16 19:20 3107 Jun 30 07:25 3107 Jul 12 00:02	26°Y40'12 0°♥ 9°♥29'07 12°♥34'07 0°Ⅲ 12°Ⅲ10'09 17°Ⅲ25'29 17°Ⅲ15'20 15°Ⅲ31'41 13°Ⅲ17'02 13°Ⅲ22'00 12°Ⅲ24'02 9°Ⅲ02'52 8°Ⅲ30'34 15°Ⅲ05'06 0°©	20°20'05 -1°11'53 1°10'39 0.55087 AU
retrograde desc. node evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node	3106 May 11 13:35 3106 May 29 21:52 3106 May 31 00:13 3106 Jun 12 10:15 3106 Jun 13 04:27 3106 Jun 14 23:05 3106 Jun 24 08:30 3106 Jun 24 00:35 3106 Jun 24 03:03 3106 Jun 30 04:53 3106 Jul 03 03:14 3106 Jul 04 08:38 3106 Jul 12 04:54 3106 Jul 18 14:17 3106 Aug 02 13:48 3106 Aug 04 18:27	28°809'06 0°II 0°S 1°S06'48 7°S13'38 7°S12'19 6°S59'08 2°S57'22 3°S08'25 3°S04'58 30°RII 29°II03'38 28°II40'52 0°S 4°S26'08 25°S47'07 0°\$\ell{1}	-3°07'39 3°05'14 0.54916 AU	asc. node evening rise evening max el retrograde evening set desc. node inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node	3107 Apr 17 06:03 3107 Apr 18 21:14 3107 Apr 23 11:33 3107 Apr 24 23:31 3107 May 04 03:15 3107 May 13 04:38 3107 May 23 23:45 3107 May 25 23:58 3107 May 31 01:28 3107 Jun 04 03:15 3107 Jun 03 23:52 3107 Jun 05 15:26 3107 Jun 12 22:33 3107 Jun 16 19:20 3107 Jun 30 07:25 3107 Jul 12 00:02 3107 Jul 20 10:49	26°Y40'12 0°♥ 29'07 12°♥34'07 0°Ⅲ 12°Ⅲ10'09 17°Ⅲ25'29 17°Ⅲ15'20 15°Ⅲ31'41 13°Ⅲ22'00 12°Ⅲ24'02 9°Ⅲ02'52 8°Ⅲ30'34 15°Ⅲ05'06 0° 15°©14'33	20°20'05 -1°11'53 1°10'39 0.55087 AU
retrograde desc. node evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el	3106 May 11 13:35 3106 May 29 21:52 3106 May 31 00:13 3106 Jun 12 10:15 3106 Jun 13 04:27 3106 Jun 14 23:05 3106 Jun 24 08:30 3106 Jun 24 00:35 3106 Jun 24 03:03 3106 Jun 30 04:53 3106 Jul 03 03:14 3106 Jul 06 08:38 3106 Jul 12 04:54 3106 Jul 18 14:17 3106 Aug 02 13:48	28°809'06 0°II 0°S 1°S06'48 7°S13'38 7°S12'19 6°S59'08 2°S57'22 3°S08'25 3°S04'58 30°RII 29°II03'38 28°II40'52 0°S 4°S26'08 25°S47'07	-3°07'39 3°05'14 0.54916 AU	asc. node evening rise evening max el retrograde evening set desc. node inferior conj minimum elong min. Earth dist. morning rise direct morning max el	3107 Apr 17 06:03 3107 Apr 18 21:14 3107 Apr 23 11:33 3107 Apr 24 23:31 3107 May 04 03:15 3107 May 13 04:38 3107 May 23 23:45 3107 May 25 23:58 3107 May 31 01:28 3107 Jun 04 03:15 3107 Jun 03 23:52 3107 Jun 05 15:26 3107 Jun 12 22:33 3107 Jun 16 19:20 3107 Jun 30 07:25 3107 Jun 30 07:25 3107 Jul 12 00:02 3107 Jul 20 10:49 3107 Jul 24 02:31	26°Y40'12 0°♥ 9°♥29'07 12°♥34'07 0°Ⅲ 12°Ⅲ10'09 17°Ⅲ25'29 17°Ⅲ15'20 15°Ⅲ31'41 13°Ⅲ22'00 12°Ⅲ24'02 9°Ⅲ02'52 8°Ⅲ30'34 15°Ⅲ05'06 0° 15°14'33 22°45'09	20°20'05 -1°11'53 1°10'39 0.55087 AU
retrograde desc. node evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set	3106 May 11 13:35 3106 May 29 21:52 3106 May 31 00:13 3106 Jun 12 10:15 3106 Jun 13 04:27 3106 Jun 14 23:05 3106 Jun 24 08:30 3106 Jun 24 00:35 3106 Jun 24 03:03 3106 Jun 30 04:53 3106 Jul 03 03:14 3106 Jul 06 08:38 3106 Jul 12 04:54 3106 Jul 18 14:17 3106 Aug 02 13:48 3106 Aug 04 18:27 3106 Aug 08 15:06	28°809'06 0° II 0° II 0° II 1° II	-3°07'39 3°05'14 0.54916 AU 21°54'39	asc. node evening rise evening max el retrograde evening set desc. node inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node	3107 Apr 17 06:03 3107 Apr 18 21:14 3107 Apr 23 11:33 3107 Apr 24 23:31 3107 May 04 03:15 3107 May 13 04:38 3107 May 23 23:45 3107 May 25 23:58 3107 May 31 01:28 3107 Jun 04 03:15 3107 Jun 03 23:52 3107 Jun 05 15:26 3107 Jun 12 22:33 3107 Jun 16 19:20 3107 Jun 30 07:25 3107 Jul 12 00:02 3107 Jul 20 10:49	26°Y40'12 0°♥ 29'07 12°♥34'07 0°Ⅲ 12°Ⅲ10'09 17°Ⅲ25'29 17°Ⅲ15'20 15°Ⅲ31'41 13°Ⅲ22'00 12°Ⅲ24'02 9°Ⅲ02'52 8°Ⅲ30'34 15°Ⅲ05'06 0° 15°©14'33	20°20'05 -1°11'53 1°10'39 0.55087 AU
retrograde desc. node evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set superior conj	3106 May 11 13:35 3106 May 29 21:52 3106 May 31 00:13 3106 Jun 12 10:15 3106 Jun 13 04:27 3106 Jun 14 23:05 3106 Jun 24 08:30 3106 Jun 24 00:35 3106 Jun 24 03:03 3106 Jun 30 04:53 3106 Jul 03 03:14 3106 Jul 06 08:38 3106 Jul 12 04:54 3106 Jul 18 14:17 3106 Aug 02 13:48 3106 Aug 04 18:27 3106 Aug 08 15:06	28°809'06 0° II 0° II 0° II 1° II	-3°07'39 3°05'14 0.54916 AU 21°54'39	asc. node evening rise evening max el retrograde evening set desc. node inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set	3107 Apr 17 06:03 3107 Apr 18 21:14 3107 Apr 23 11:33 3107 Apr 24 23:31 3107 May 04 03:15 3107 May 13 04:38 3107 May 23 23:45 3107 May 25 23:58 3107 May 31 01:28 3107 Jun 04 03:15 3107 Jun 05 15:26 3107 Jun 05 15:26 3107 Jun 12 22:33 3107 Jun 16 19:20 3107 Jun 30 07:25 3107 Jul 12 00:02 3107 Jul 20 10:49 3107 Jul 24 02:31 3107 Jul 27 11:52	26°Y40'12 0°♥ 9°♥29'07 12°♥34'07 0°Ⅲ 12°Ⅲ10'09 17°Ⅲ25'29 17°Ⅲ15'20 15°Ⅲ31'41 13°Ⅲ22'00 12°Ⅲ24'02 9°Ⅲ02'52 8°Ⅲ30'34 15°Ⅲ05'06 0°☞ 15°©14'33 22°©45'09 0°€	20°20'05 -1°11'53 1°10'39 0.55087 AU 23°36'01
retrograde desc. node evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set	3106 May 11 13:35 3106 May 29 21:52 3106 May 31 00:13 3106 Jun 12 10:15 3106 Jun 13 04:27 3106 Jun 14 23:05 3106 Jun 24 08:30 3106 Jun 24 00:35 3106 Jun 24 03:03 3106 Jun 30 04:53 3106 Jul 03 03:14 3106 Jul 06 08:38 3106 Jul 12 04:54 3106 Jul 18 14:17 3106 Aug 02 13:48 3106 Aug 04 18:27 3106 Aug 08 15:06	28°809'06 0°II 0°S 1°S06'48 7°S13'38 7°S12'19 6°S59'08 2°S57'22 3°S08'25 3°S04'58 30°RII 29°II03'38 28°II40'52 0°S 4°S26'08 25°S47'07 0°A 7°A50'51 23°A06'58 23°A00'06	-3°07'39 3°05'14 0.54916 AU 21°54'39	asc. node evening rise evening max el retrograde evening set desc. node inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set	3107 Apr 17 06:03 3107 Apr 18 21:14 3107 Apr 23 11:33 3107 Apr 24 23:31 3107 May 04 03:15 3107 May 13 04:38 3107 May 23 23:45 3107 May 25 23:58 3107 May 31 01:28 3107 Jun 04 03:15 3107 Jun 04 03:15 3107 Jun 05 15:26 3107 Jun 05 15:26 3107 Jun 12 22:33 3107 Jun 16 19:20 3107 Jun 30 07:25 3107 Jun 12 00:02 3107 Jul 20 10:49 3107 Jul 24 02:31 3107 Jul 27 11:52	26°Y40'12 0°♥ 9°♥29'07 12°♥34'07 0°Ⅲ 12°Ⅲ10'09 17°Ⅲ25'29 17°Ⅲ15'20 15°Ⅲ31'41 13°Ⅲ17'02 13°Ⅲ22'00 12°Ⅲ24'02 9°Ⅲ02'52 8°Ⅲ30'34 15°Ⅲ05'06 0°☞ 15°☞14'33 22°ℱ45'09 0°Ω 7°Ω51'36	20°20'05 -1°11'53 1°10'39 0.55087 AU 23°36'01
retrograde desc. node evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set superior conj minimum elong	3106 May 11 13:35 3106 May 29 21:52 3106 May 31 00:13 3106 Jun 12 10:15 3106 Jun 13 04:27 3106 Jun 14 23:05 3106 Jun 24 08:30 3106 Jun 24 03:03 3106 Jun 24 03:03 3106 Jun 30 04:53 3106 Jul 03 03:14 3106 Jul 06 08:38 3106 Jul 12 04:54 3106 Jul 12 04:54 3106 Jul 18 14:17 3106 Aug 02 13:48 3106 Aug 04 18:27 3106 Aug 08 15:06	28°809'06 0°II 0°S 1°S06'48 7°S13'38 7°S12'19 6°S59'08 2°S57'22 3°S08'25 3°S04'58 30°RII 29°II03'38 28°II40'52 0°S 4°S26'08 25°S47'07 0°A 7°A50'51 23°A06'58 23°A00'06 0°II)	-3°07'39 3°05'14 0.54916 AU 21°54'39 1°41'18 1°41'14	asc. node evening rise evening max el retrograde evening set desc. node inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set	3107 Apr 17 06:03 3107 Apr 18 21:14 3107 Apr 23 11:33 3107 Apr 24 23:31 3107 May 04 03:15 3107 May 13 04:38 3107 May 23 23:45 3107 May 25 23:58 3107 May 31 01:28 3107 Jun 04 03:15 3107 Jun 03 23:52 3107 Jun 05 15:26 3107 Jun 05 15:26 3107 Jun 12 22:33 3107 Jun 16 19:20 3107 Jun 17 12 20:02 3107 Jun 17 12 00:02 3107 Jun 18 19:20 3107 Jun 19 19:20	26°Y40'12 0°♥ 9°♥29'07 12°♥34'07 0°Ⅲ 12°Ⅲ10'09 17°Ⅲ25'29 17°Ⅲ15'20 15°Ⅲ31'41 13°Ⅲ17'02 13°Ⅲ22'00 12°Ⅲ24'02 9°Ⅲ02'52 8°Ⅲ30'34 15°Ⅲ05'06 0°☞ 15°☞14'33 22°ℱ45'09 0°ℳ 7°ℳ51'36 7°ℳ40'20	20°20'05 -1°11'53 1°10'39 0.55087 AU 23°36'01 1°31'39 1°31'25
retrograde desc. node evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist.	3106 May 11 13:35 3106 May 29 21:52 3106 May 31 00:13 3106 Jun 12 10:15 3106 Jun 13 04:27 3106 Jun 14 23:05 3106 Jun 24 08:30 3106 Jun 24 00:35 3106 Jun 24 03:03 3106 Jun 30 04:53 3106 Jul 03 03:14 3106 Jul 06 08:38 3106 Jul 12 04:54 3106 Jul 12 04:54 3106 Jul 18 14:17 3106 Aug 02 13:48 3106 Aug 04 18:27 3106 Aug 08 15:06	28°809'06 0°II 0°S 1°S06'48 7°S13'38 7°S12'19 6°S59'08 2°S57'22 3°S08'25 3°S04'58 30°RII 29°I03'38 28°I40'52 0°S 4°S26'08 25°S47'07 0°A 7°A50'51 23°A06'58 23°A00'06 0°IP 0°IP41'11	-3°07'39 3°05'14 0.54916 AU 21°54'39	asc. node evening rise evening max el retrograde evening set desc. node inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set	3107 Apr 17 06:03 3107 Apr 18 21:14 3107 Apr 23 11:33 3107 Apr 24 23:31 3107 May 04 03:15 3107 May 13 04:38 3107 May 23 23:45 3107 May 25 23:58 3107 May 31 01:28 3107 Jun 04 03:15 3107 Jun 04 03:15 3107 Jun 05 15:26 3107 Jun 05 15:26 3107 Jun 12 22:33 3107 Jun 16 19:20 3107 Jun 17 10:02 3107 Jun 17 10:02 3107 Jun 18 19:20 3107 Jun 19 18:20	26°Y40'12 0°႘ 9°႘29'07 12°႘34'07 0°Ⅲ 12°Ⅲ10'09 17°Ⅲ25'29 17°Ⅲ15'20 15°Ⅲ31'41 13°Ⅲ2'00 12°Ⅲ24'02 9°Ⅲ02'52 8°Ⅲ30'34 15°Ⅲ05'06 0°℘ 15°℘14'33 22°℘45'09 0°ℳ 7°ℳ51'36 7°ℳ40'20 12°ℳ52'24	20°20'05 -1°11'53 1°10'39 0.55087 AU 23°36'01
retrograde desc. node evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set superior conj minimum elong	3106 May 11 13:35 3106 May 29 21:52 3106 May 31 00:13 3106 Jun 12 10:15 3106 Jun 13 04:27 3106 Jun 14 23:05 3106 Jun 24 08:30 3106 Jun 24 00:35 3106 Jun 24 03:03 3106 Jun 30 04:53 3106 Jul 03 03:14 3106 Jul 06 08:38 3106 Jul 12 04:54 3106 Jul 12 04:54 3106 Jul 18 14:17 3106 Aug 02 13:48 3106 Aug 04 18:27 3106 Aug 08 15:06	28°809'06 0°II 0°S 1°S06'48 7°S13'38 7°S12'19 6°S59'08 2°S57'22 3°S08'25 3°S04'58 30°RII 29°II03'38 28°II40'52 0°S 4°S26'08 25°S47'07 0°A 7°A50'51 23°A06'58 23°A00'06 0°IP 0°IP41'11 9°IP35'31	-3°07'39 3°05'14 0.54916 AU 21°54'39 1°41'18 1°41'14	asc. node evening rise evening max el retrograde evening set desc. node inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set	3107 Apr 17 06:03 3107 Apr 18 21:14 3107 Apr 23 11:33 3107 Apr 24 23:31 3107 May 04 03:15 3107 May 13 04:38 3107 May 23 23:45 3107 May 25 23:58 3107 May 31 01:28 3107 Jun 04 03:15 3107 Jun 05 15:26 3107 Jun 05 15:26 3107 Jun 12 22:33 3107 Jun 16 19:20 3107 Jun 17 12 20:31 3107 Jun 18 19:20 3107 Jun 19 19:20 3107 Jun 20 10:49 3107 Jun 31 01:03 3107 Jun 31 01:03 3107 Aug 02 11:24 3107 Aug 07 15:42	26°Y40'12 0°႘ 9°႘29'07 12°႘34'07 0°Ⅲ 12°Ⅲ10'09 17°Ⅲ25'29 17°Ⅲ15'20 15°Ⅲ31'41 13°Ⅲ17'02 13°Ⅲ22'00 12°Ⅲ24'02 9°Ⅲ02'52 8°Ⅲ30'34 15°Ⅲ05'06 0°ဪ 15°ဪ14'33 22°ဪ45'09 0°ℳ 7°ℳ51'36 7°ℳ40'20 12°ℳ52'24 23°ℳ34'19	20°20'05 -1°11'53 1°10'39 0.55087 AU 23°36'01 1°31'39 1°31'25
retrograde desc. node evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise	3106 May 11 13:35 3106 May 29 21:52 3106 May 31 00:13 3106 Jun 12 10:15 3106 Jun 13 04:27 3106 Jun 14 23:05 3106 Jun 24 08:30 3106 Jun 24 00:35 3106 Jun 24 03:03 3106 Jun 30 04:53 3106 Jul 03 03:14 3106 Jul 06 08:38 3106 Jul 12 04:54 3106 Jul 12 04:54 3106 Jul 18 14:17 3106 Aug 02 13:48 3106 Aug 04 18:27 3106 Aug 05 15:06 3106 Aug 15 20:37 3106 Aug 19 04:20 3106 Aug 19 12:25 3106 Aug 24 00:13 3106 Sep 04 11:04	28°809'06 0°II 0°S 1°S06'48 7°S13'38 7°S12'19 6°S59'08 2°S57'22 3°S08'25 3°S04'58 30°RII 29°I03'38 28°I40'52 0°S 4°S26'08 25°S47'07 0°A 7°A50'51 23°A06'58 23°A00'06 0°ID 0°ID41'11 9°ID35'31 0°S	-3°07'39 3°05'14 0.54916 AU 21°54'39 1°41'18 1°41'14	asc. node evening rise evening max el retrograde evening set desc. node inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise	3107 Apr 17 06:03 3107 Apr 18 21:14 3107 Apr 23 11:33 3107 Apr 24 23:31 3107 May 04 03:15 3107 May 13 04:38 3107 May 23 23:45 3107 May 25 23:58 3107 May 31 01:28 3107 Jun 04 03:15 3107 Jun 03 23:52 3107 Jun 05 15:26 3107 Jun 12 22:33 3107 Jun 16 19:20 3107 Jun 17 12 20:31 3107 Jun 18 19:20 3107 Jun 19 19:20 3107 Jun 20 10:49 3107 Jun 31 03:09 3107 Jun 31 03:09 3107 Jun 31 01:03 3107 Aug 02 11:24 3107 Aug 07 15:42 3107 Aug 10 22:32	26°Y40'12 0°႘ 9°႘29'07 12°႘34'07 0°Ⅲ 12°Ⅲ10'09 17°Ⅲ25'29 17°Ⅲ15'20 15°Ⅲ31'41 13°Ⅲ22'00 12°Ⅲ24'02 9°Ⅲ02'52 8°Ⅲ30'34 15°Ⅲ05'06 0°ဪ 15°ဪ14'33 22°ဪ45'09 0°Ո 7°Л51'36 7°Л40'20 12°Л52'24 23°Л34'19 0°൝	20°20'05 -1°11'53 1°10'39 0.55087 AU 23°36'01 1°31'39 1°31'25
retrograde desc. node evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist.	3106 May 11 13:35 3106 May 29 21:52 3106 May 31 00:13 3106 Jun 12 10:15 3106 Jun 13 04:27 3106 Jun 14 23:05 3106 Jun 24 08:30 3106 Jun 24 00:35 3106 Jun 24 03:03 3106 Jun 30 04:53 3106 Jul 03 03:14 3106 Jul 06 08:38 3106 Jul 12 04:54 3106 Jul 12 04:54 3106 Jul 18 14:17 3106 Aug 02 13:48 3106 Aug 04 18:27 3106 Aug 08 15:06	28°809'06 0°II 0°S 1°S06'48 7°S13'38 7°S12'19 6°S59'08 2°S57'22 3°S08'25 3°S04'58 30°RII 29°II03'38 28°II40'52 0°S 4°S26'08 25°S47'07 0°A 7°A50'51 23°A06'58 23°A00'06 0°IP 0°IP41'11 9°IP35'31	-3°07'39 3°05'14 0.54916 AU 21°54'39 1°41'18 1°41'14	asc. node evening rise evening max el retrograde evening set desc. node inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set	3107 Apr 17 06:03 3107 Apr 18 21:14 3107 Apr 23 11:33 3107 Apr 24 23:31 3107 May 04 03:15 3107 May 13 04:38 3107 May 23 23:45 3107 May 25 23:58 3107 May 31 01:28 3107 Jun 04 03:15 3107 Jun 05 15:26 3107 Jun 05 15:26 3107 Jun 12 22:33 3107 Jun 16 19:20 3107 Jun 17 12 20:31 3107 Jun 18 19:20 3107 Jun 19 19:20 3107 Jun 20 10:49 3107 Jun 31 01:03 3107 Jun 31 01:03 3107 Aug 02 11:24 3107 Aug 07 15:42	26°Y40'12 0°႘ 9°႘29'07 12°႘34'07 0°Ⅲ 12°Ⅲ10'09 17°Ⅲ25'29 17°Ⅲ15'20 15°Ⅲ31'41 13°Ⅲ17'02 13°Ⅲ22'00 12°Ⅲ24'02 9°Ⅲ02'52 8°Ⅲ30'34 15°Ⅲ05'06 0°ဪ 15°ဪ14'33 22°ဪ45'09 0°ℳ 7°ℳ51'36 7°ℳ40'20 12°ℳ52'24 23°ℳ34'19	20°20'05 -1°11'53 1°10'39 0.55087 AU 23°36'01 1°31'39 1°31'25

avanina may al	2107 Can 10 14:12	14° £ 52'24	27922107	daga mada	2100 Aug 12 21.50	160 mm 02124	
evening max el	3107 Sep 10 14:13		27 23 07	desc. node	3108 Aug 12 21:50	16° Mp 03'34	27921129
retrograde	3107 Sep 24 03:19	22° £ 10′24		evening max el	3108 Aug 22 23:01	27° Mp 42'31 0° <u>₽</u>	27°21'28
evening set	3107 Oct 01 05:51	19° £ 29'38	0.64156 ATT		3108 Aug 25 13:21		
min. Earth dist.	3107 Oct 04 23:05	16° ♀ 07'44 13° ♀ 34'08	0.64156 AU	retrograde	3108 Sep 05 18:07	4° £ 58'22	
inferior conj	3107 Oct 07 09:34			evening set	3108 Sep 12 22:43	2° £ 30'32	
minimum elong	3107 Oct 07 14:17	13° £ 21'43	2°52′13	: E 4 E 4	3108 Sep 16 02:48	30°RM)	0.62202.411
morning rise	3107 Oct 13 23:54	8° £ 10'43		min. Earth dist.	3108 Sep 16 13:03	29° Mp 37'00	
asc. node	3107 Oct 16 10:00	7° Ω 38'07		inferior conj	3108 Sep 19 11:10	26° m 52'39	
direct	3107 Oct 16 12:59	7° Ω 38'03		minimum elong	3108 Sep 19 16:49	26° m 39'22	3°48'34
morning max el	3107 Oct 23 01:24	11° Ω 03'45	17°54'57	morning rise	3108 Sep 26 12:32	21° m 47'50	
	3107 Nov 04 23:02	0°M		direct	3108 Sep 28 22:14	21° m 22'04	
morning set	3107 Nov 09 01:52	7°M01'05		asc. node	3108 Oct 02 07:03	22° m 14'10	
				morning max el	3108 Oct 05 17:19	24° Mp 49'42	17°51'51
superior conj	3107 Nov 22 01:46	28°M42'36	0°06'23		3108 Oct 09 23:16	0∘ ত	
minimum elong	3107 Nov 22 02:30	28°M45'31	0°06'16	morning set	3108 Oct 21 17:44	19° ≏ 49'11	
behind sun begin	3107 Nov 21 17:07	28° ™ 07′25			3108 Oct 27 11:05	0°M	
behind sun end	3107 Nov 22 11:53	29°M23'33					
	3107 Nov 22 20:53	0° ∡ ¹		superior conj	3108 Nov 01 20:49	9° ™ 21'05	0°47'14
desc. node	3107 Nov 23 00:06	0° ∡ 13′00		minimum elong	3108 Nov 02 00:47	9° ™ 37'58	0°46'42
max. Earth dist.	3107 Nov 27 08:20	7° ∡ 10′18	1.44542 AU	desc. node	3108 Nov 08 21:08	21°M00'29	
evening rise	3107 Dec 08 03:36	24° ∡ °02'07		max. Earth dist.	3108 Nov 08 23:07	21°M08'31	1.43265 AU
Č	3107 Dec 12 01:03	8°0			3108 Nov 14 12:06	0° √	
	3108 Jan 01 23:08	0° ≈		evening rise	3108 Nov 16 14:01	3° х 15′23	
evening max el	3108 Jan 04 15:40	3°≈00'30	20°21'48	evening rise	3108 Dec 04 12:32	0°る	
asc. node	3108 Jan 12 09:15	7°≈40'22	20 21 10	evening max el	3108 Dec 17 13:20	6° る 32'27	21°32'03
retrograde	3108 Jan 12 14:09	7°≈40'36		retrograde	3108 Dec 26 11:37	21°る50'56	21 32 03
evening set	3108 Jan 16 09:49	6°≈16'02		asc. node	3108 Dec 20 11:37 3108 Dec 29 06:17	21°る08'43	
•	3108 Jan 21 19:14	0°≈09'32	2047102		3108 Dec 29 00:17 3108 Dec 30 17:29	21 30843 20°る11'00	
inferior conj				evening set			200012.4
minimum elong	3108 Jan 21 16:41	0°≈18'10	2°46'22	inferior conj	3109 Jan 05 01:51	13° 3 54'43	2°09'24
i matri	3108 Jan 21 22:02	30°Rる	0.67204.444	minimum elong	3109 Jan 04 23:27	14°る03'02	2°08'35
min. Earth dist.	3108 Jan 22 12:17	29° る 11'39	0.67284 AU	min. Earth dist.	3109 Jan 05 06:49	13° る 37'29	0.67788 AU
morning rise	3108 Jan 26 23:22	23° る 55'55		morning rise	3109 Jan 10 05:14	7° る 42'21	
direct	3108 Feb 01 15:49	21° る 24'07		direct	3109 Jan 15 06:53	5° る 30'57	
morning max el	3108 Feb 13 02:25	28° る 14'08	24°38'08	morning max el	3109 Jan 25 11:32	11° る 34'21	23°09'23
	3108 Feb 14 18:50	0° ≈		desc. node	3109 Feb 04 20:20	24° る 03'25	
desc. node	3108 Feb 18 23:17	4°≈50'59			3109 Feb 09 03:38	0° ≈	
	3108 Mar 07 19:09	0° ∀			3109 Feb 28 15:13	0° ∀	
morning set	3108 Mar 20 03:02	20°) €26'35		morning set	3109 Mar 01 06:31	1°) €03'48	
max. Earth dist.	3108 Mar 23 18:38		1.37382 AU	max. Earth dist.	3109 Mar 05 13:17	8° 升 20'55	1.39532 AU
	3108 Mar 25 09:55	$0^{\circ}\Upsilon$					
				superior conj	3109 Mar 13 05:27	22°) €04'51	-1°51'13
superior conj	3108 Mar 30 11:27	9° Ƴ 37'08	-1°29'06	minimum elong	3109 Mar 13 09:47	22° ∺ 24'50	1°50'50
minimum elong	3108 Mar 30 15:48	9° Ƴ 58'16	1°28'31		3109 Mar 17 10:51	0 ° Υ	
evening rise	3108 Apr 08 01:06	26° Ƴ 36'58		evening rise	3109 Mar 22 18:08	10° Ƴ 09'52	
asc. node	3108 Apr 09 08:34	29° Ƴ 13'06		asc. node	3109 Mar 27 05:36	18° Ƴ 39'05	
	3108 Apr 09 18:05	0°B			3109 Apr 02 22:10	0°8	
evening max el	3108 Apr 24 21:02	23° 8 54'19	19°17'06	evening max el	3109 Apr 07 23:23	6° 8 15'56	18°34'16
retrograde	3108 May 03 23:32	28° 8 19'26		retrograde	3109 Apr 15 17:14	10° 8 04'02	
evening set	3108 May 06 00:38	28° 8 07'01		evening set	3109 Apr 18 00:26	9° 8 45'03	
inferior conj	3108 May 14 10:49	23° 8 58'11	0°42'57	inferior conj	3109 Apr 25 14:52	5° 8 17'44	2°11'29
minimum elong	3108 May 14 12:34	23° 8 55'17	0°42'20	minimum elong	3109 Apr 25 18:40	5° 8 10'21	2°10'24
desc. node	3108 May 16 22:28	22° 8 19'14		min. Earth dist.	3109 Apr 29 00:34	2° 8 40'27	0.57965 AU
min. Earth dist.	3108 May 17 06:16	22° 8 06'39	0.56180 AU	morning rise	3109 May 03 09:45	29° Y 56'25	0.57705116
morning rise	3108 May 22 21:30	19° 8 09'54	0.50100710	morning rise	3109 May 03 06:48	30°R Y	
direct	3108 May 27 17:10	18° 8 16'28		desc. node	3109 May 03 19:29	29° Υ 45'02	
morning max el	3108 Jun 10 21:40	25° 8 30'13	25°16'24	direct	3109 May 09 05:28	28° Y 30'28	
morning max ci		0°II	23 10 24	direct		0° 8	
	3108 Jun 15 02:46	0.2 0.П		marning me1	3109 May 15 07:14		26940100
000 mc J-	3108 Jul 03 20:54			morning max el	3109 May 23 14:35	6° ႘ 08'39 0°Ⅱ	26°40'09
asc. node	3108 Jul 06 07:51	5°900'30			3109 Jun 10 05:51		
morning set	3108 Jul 07 14:14	7° © 39'44		morning set	3109 Jun 22 00:38	22° ∏ 29'22	
	4100 X 1 11 12 1	222 - 1	101715	asc. node	3109 Jun 23 04:55	24° ∏ 59'12	
superior conj	3108 Jul 14 13:13	22°545'39	1°16'58		3109 Jun 25 12:40	0 \circ \odot	
minimum elong	3108 Jul 14 10:51	22° © 32'42					
max. Earth dist.	3108 Jul 15 17:55	25°522'21	1.32597 AU	superior conj	3109 Jun 29 00:56	7° © 42'40	0°58'02
	3108 Jul 17 21:13	0 $^{\circ}\Omega$		minimum elong	3109 Jun 28 22:46	7° © 30'45	0°57'39
evening rise	3108 Jul 21 16:04	7° Ω 58'38		max. Earth dist.	3109 Jun 29 04:56	8° 5 04'44	1.32161 AU
	3108 Aug 02 08:57	0° m		evening rise	3109 Jul 05 22:27	22° © 39'49	

	3109 Jul 09 12:25	$0^{\circ}\Omega$			3110 Jul 02 01:51	$0^{\circ}\Omega$	
	3109 Jul 27 12:02	O° Mp		desc. node	3110 Jul 17 15:50	20° Ω 56'47	
desc. node	3109 Jul 30 18:49	4° Mp 08'55		evening max el	3110 Jul 17 23:05	21° Ω 14'12	25°40'25
evening max el	3109 Aug 05 02:40	9° m 52'28	26°46'42	retrograde	3110 Jul 31 22:48	28° Ω 21'36	
retrograde	3109 Aug 19 01:17	17° Mp 04'22		evening set	3110 Aug 06 23:11	26°Ω56'21	
evening set	3109 Aug 25 22:08	15° Mp 02'47		min. Earth dist.	3110 Aug 11 11:13	24°Ω17'53	0.58326 AU
min. Earth dist.	3109 Aug 29 16:42	12° m) 25'22	0.60379 AU	inferior conj	3110 Aug 14 16:03	22°Ω01'03	
inferior conj	3109 Sep 01 22:33	9° m 45'21		minimum elong	3110 Aug 14 10:03 3110 Aug 14 17:50	21°Ω57'52	
	•	9° My 34'59	4°35'42	morning rise	_	$17^{\circ} \Omega 40'30$	3 03 10
minimum elong	3109 Sep 02 03:34	-•	4 33 42		3110 Aug 22 14:44		
morning rise	3109 Sep 09 10:58	5° Mp 01'53		direct	3110 Aug 25 02:45	17° Ω 20'41	10044116
direct	3109 Sep 11 20:18	4° Mp 40'10	10005140	morning max el	3110 Sep 02 11:22	21°Ω19'07	18°44'16
morning max el	3109 Sep 19 05:45	8° Mp 18'15	18°07'48	asc. node	3110 Sep 06 01:12	25° Ω 22'33	
asc. node	3109 Sep 19 04:07	8° Mp 14'18			3110 Sep 09 05:43	0° m)	
	3109 Oct 03 06:03	0∘ ত		morning set	3110 Sep 18 20:26	17° m) 28'51	
morning set	3109 Oct 05 01:32	3° ჲ 23'10			3110 Sep 25 06:49	0∘ ⊽	
superior conj	3109 Oct 14 17:43	21° ≙ 15′21	1°16'55	superior conj	3110 Sep 27 11:26	4° ≙ 10'44	1°35'19
minimum elong	3109 Oct 14 21:51	21° ≏ 33'51	1°16'28	minimum elong	3110 Sep 27 14:08	4° ₽ 23'30	1°35'07
	3109 Oct 19 17:07	0° M.		max. Earth dist.	3110 Oct 04 14:36	17° ≏ 13'17	1.39470 AU
max. Earth dist.	3109 Oct 22 08:59	4°M31'48	1.41503 AU	evening rise	3110 Oct 08 14:47	24° ₽ 09'25	
desc. node	3109 Oct 26 18:11	11°M46'46		•	3110 Oct 12 02:53	0° M	
evening rise	3109 Oct 27 15:01	13°M 11'11		desc. node	3110 Oct 13 15:12	2° M 27'41	
evening rise	3109 Nov 07 11:03	0° ∡ 7		door. node	3110 Nov 01 06:29	0°×7	
	3109 Nov 30 03:24	°5		evening max el	3110 Nov 12 19:41	13° × 744'41	24°09'49
evening max el	3109 Nov 30 05:24 3109 Nov 30 06:09	0° ろ 06'56	220/0/57	retrograde	3110 Nov 23 22:29	20°×716'00	24 07 47
•	3109 Nov 30 00:09 3109 Dec 10 06:47	6° る 03'57	22 49 37	evening set	3110 Nov 29 05:52	18°×7'03'10	
retrograde				Č			
evening set	3109 Dec 15 00:42	4°る07'39		asc. node	3110 Dec 03 00:24	13° 🗷 52'42	0.67720 ATT
asc. node	3109 Dec 16 03:20	3°₹06'09		min. Earth dist.	3110 Dec 03 23:42	12° ₹ 35'21	0.67720 AU
	3109 Dec 18 18:02	30°₹ ৴		inferior conj	3110 Dec 04 16:32	11° ∡ ′38'35	0°34'12
inferior conj	3109 Dec 20 09:34	27° ₹ 45'14		minimum elong	3110 Dec 04 15:44	11° √ 41'19 −	0°33'51
minimum elong	3109 Dec 20 07:45	27° ≯ 51'30	1°24'00	morning rise	3110 Dec 10 01:37	5° ∡ ³34'42	
min. Earth dist.	3109 Dec 20 03:26	28° ₰ 06'23	0.67930 AU	direct	3110 Dec 13 23:02	4° ∡ 108′27	
morning rise	3109 Dec 25 14:40	21° ∡ ³36′02		morning max el	3110 Dec 21 20:56	8° ∡ ¹40'44	20°26'34
direct	3109 Dec 30 01:41	19° ∡ ¹47'28			3111 Jan 06 23:17	0°ප	
morning max el	3110 Jan 08 00:39	25° ∡ 101'55	21°43'14	desc. node	3111 Jan 09 14:27	3° ⋜ 54'59	
	3110 Jan 12 10:58	0°₹		morning set	3111 Jan 19 04:43	18° る 32'27	
desc. node	3110 Jan 22 17:23	13° る 47'43			3111 Jan 26 11:49	0° ≈	
	3110 Feb 02 15:04	0° ≈		max. Earth dist.	3111 Jan 28 19:40	3° ≈ 43'40	1.43427 AU
morning set	3110 Feb 09 04:57	10° ≈ 17'39					
max. Earth dist.	3110 Feb 15 12:27		1.41646 AU	superior conj	3111 Feb 04 01:43	13° ≈ 57'02	-2°04'17
	3110 Feb 21 02:19	0° ∀		minimum elong	3111 Feb 03 22:51	13° ≈ 45'05	
	3110100 21 02.17	٠,٨		mmuni viong	3111 Feb 13 12:09	0° ∀	2 0 . 12
superior conj	3110 Feb 23 03:51	3°) 35′09	2004/38	evening rise	3111 Feb 16 11:44	5° ¥ 12'22	
minimum elong	3110 Feb 23 05:58	3°) (44′23		asc. node	3111 Feb 10 11:44 3111 Feb 28 23:42	26° ∺ 10′28	
•			2 04 34	asc. node		20 γ (1028	
evening rise	3110 Mar 05 23:04	23°) €04'28			3111 Mar 03 19:43		10000104
	3110 Mar 09 17:51	0° Υ		evening max el	3111 Mar 05 20:29	2°Υ15'45	18°08'04
asc. node	3110 Mar 14 02:39	7° Y 40'46		retrograde	3111 Mar 12 08:05	5°Υ38'53	
evening max el	3110 Mar 22 08:18	19° Y 06′03	18°11'25	evening set	3111 Mar 15 03:14	5° Υ '00'08	
retrograde	3110 Mar 29 05:21	22° Y 33'54		inferior conj	3111 Mar 21 10:38	29° 米 51′16	3°34'08
evening set	3110 Mar 31 18:54	22° Y 05'42		minimum elong	3111 Mar 21 11:56	29°) 47′53	3°34'02
inferior conj	3110 Apr 07 15:52	17° Ƴ 17′20	3°07'06		3111 Mar 21 07:15	30° Ŗ ₩	
minimum elong	3110 Apr 07 18:58	17° Ƴ 10′19	3°06'31	min. Earth dist.	3111 Mar 24 08:10	26° ¥ 52′26	0.62231 AU
min. Earth dist.	3110 Apr 11 00:18	14° Ƴ 16'53	0.60096 AU	morning rise	3111 Mar 27 19:19	23° ¥ 51′02	
morning rise	3110 Apr 14 16:46	11° Y 31'56		direct	3111 Apr 03 16:38	21° 升 19′58	
desc. node	3110 Apr 20 16:32	9° Ƴ 31'09		desc. node	3111 Apr 07 13:35	22° ₩ 02'53	
direct	3110 Apr 21 06:07	9° Ƴ 30'16		morning max el	3111 Apr 17 18:33	29° ¥ 17'00	27°50'56
morning max el	3110 May 05 13:28	17° Y 21'25	27°33'58	3	3111 Apr 18 11:32	0° Υ	
	3110 May 16 01:09	0°8			3111 May 09 23:02	%B	
	3110 Jun 02 19:33	0°II		morning set	3111 May 21 10:08	21° 8 27'31	
morning act				morning set	-	0° Ⅱ	
morning set	3110 Jun 06 07:56	7° Ⅱ 07′20		may Etl- 1' t	3111 May 25 12:36		1 22402 441
asc. node	3110 Jun 10 01:57	15° Ⅱ 04'54	1 20104 / **	max. Earth dist.	3111 May 27 01:32		1.32492 AU
max. Earth dist.	3110 Jun 12 16:47	20° Ⅱ 47′29	1.32124 AU	asc. node	3111 May 27 23:00	5° Ⅱ 13'37	
							0040:
superior conj	3110 Jun 13 12:27	22° I I35'33	0°35'32	superior conj	3111 May 28 22:05	7° ∐ 18'57	0°10'07
minimum elong	3110 Jun 13 10:56	22° Ⅱ 27'13	0°35'14	minimum elong	3111 May 28 21:37	7° Ⅱ 16′21	0°10'01
	3110 Jun 16 21:19	0 \circ \odot		behind sun begin	3111 May 28 17:35	6° Ⅱ 54'23	
evening rise	3110 Jun 20 08:31	7° 5 29'03		behind sun end	3111 May 29 01:39	7° Ⅱ 38'20	

	2111 1 04 20 15	220 T 10/52			2112.14 12 04 40	210050157	0017116
evening rise	3111 Jun 04 20:15	22° Ⅱ 19'53		minimum elong	3112 May 12 04:49	21° 8 50'57	0°1/16
	3111 Jun 08 13:04	0ა Մ 0ა©		asc. node	3112 May 13 20:02	25° 8 20'40	
avanina may al	3111 Jun 27 16:14 3111 Jun 29 13:17	0° δ ε 1° Ω 54'47	24°11'28	avanina risa	3112 May 16 00:01	0°П 7°П05'17	
evening max el desc. node	3111 Jul 29 13.17 3111 Jul 04 12:50	5° Ω 56'48	24 11 28	evening rise	3112 May 19 07:46	7 п 03 17	
retrograde	3111 Jul 13 08:51	8° Ω 52'40		evening max el	3112 May 31 12:09 3112 Jun 10 03:25	0 S 12°S20'25	22024140
evening set	3111 Jul 18 00:30	8° Ω 04'34		desc. node	3112 Jun 20 09:50	12 \$20 23 18° \$33'27	22 3449
min. Earth dist.	3111 Jul 23 23:56	5° Ω 07'20	0.56504 AU	retrograde	3112 Jun 23 06:51	18°952'25	
inferior conj	3111 Jul 26 13:19	3° Ω 31'48		evening set	3112 Jun 26 10:48	18°930'22	
minimum elong	3111 Jul 26 09:29	3° Ω 37'48		min. Earth dist.	3112 Jul 04 11:02		0.55251 AU
minimum crong	3111 Aug 02 06:27	30°R.25	1 33 27	inferior conj	3112 Jul 05 16:15	14°919'02	
morning rise	3111 Aug 02 00:27 3111 Aug 03 21:07	29° © 31'33		minimum elong	3112 Jul 05 08:11	14°930'31	3°59'08
direct	3111 Aug 06 13:57	29° © 12'18		morning rise	3112 Jul 14 07:46	10°927'58	3 27 00
ancet	3111 Aug 10 16:36	0°Ω		direct	3112 Jul 17 07:10	10° 5 07'41	
morning max el	3111 Aug 16 07:12	3° Ω 43'15	19°42'19	morning max el	3112 Jul 28 15:32	15°524'02	21°01'18
asc. node	3111 Aug 23 22:15	13° Ω 24'19	1, .2.1,	morning man er	3112 Aug 08 14:10	0°Ω	21 0110
	3111 Sep 01 23:43	0° m/		asc. node	3112 Aug 09 19:17	2° Ω 07'05	
morning set	3111 Sep 02 22:58	1° m 56'41		morning set	3112 Aug 17 06:33	16° Ω 39'31	
8		4		. 8	3112 Aug 23 16:11	0° m	
superior conj	3111 Sep 10 20:34	17° m 52'06	1°43'51		C	•	
minimum elong	3111 Sep 10 21:29	17° m 56'39	1°43'49	superior conj	3112 Aug 24 16:37	2° m 06'15	1°44'13
max. Earth dist.	3111 Sep 16 19:07	29° m 18'25	1.37418 AU	minimum elong	3112 Aug 24 16:00	2° m 03'03	1°44'12
	3111 Sep 17 04:03	0∘ <u>⊽</u>		max. Earth dist.	3112 Aug 29 04:05	11° m 09'02	1.35579 AU
evening rise	3111 Sep 20 13:34	6° £ 11'38		evening rise	3112 Sep 02 07:40	19° m 08'58	
desc. node	3111 Sep 30 12:13	22° ≏ 59'05			3112 Sep 08 07:45	0° ت	
	3111 Oct 05 00:41	0° M .		desc. node	3112 Sep 16 09:12	13° ≏ 15'48	
evening max el	3111 Oct 26 07:49	27°M25'02	25°24'46		3112 Sep 28 02:54	0°M	
	3111 Oct 29 03:58	0°⊀		evening max el	3112 Oct 07 20:03	11°ML05'00	26°27'25
retrograde	3111 Nov 07 09:49	4° ∡ °22′28		retrograde	3112 Oct 20 16:14	18° M ₊17'51	
evening set	3111 Nov 13 07:17	1° ∡ 754'44		evening set	3112 Oct 27 03:04	15° M 39'17	
	3111 Nov 15 06:07	30°RM		min. Earth dist.	3112 Oct 31 05:57	11°M21'53	0.66274 AU
min. Earth dist.	3111 Nov 17 17:18	27°M01'35	0.67170 AU	inferior conj	3112 Nov 01 21:05	9°M23'27	-1°19'33
inferior conj	3111 Nov 18 21:00	25°M32'12	-0°21'01	minimum elong	3112 Nov 01 23:14	9°M16'56	1°18'38
minimum elong	3111 Nov 18 21:32	25° M $_30'28$	0°20'47	asc. node	3112 Nov 05 18:29	5°M07'54	
asc. node	3111 Nov 19 21:28	24°M14'02		morning rise	3112 Nov 07 19:59	3°M37'20	
morning rise	3111 Nov 24 12:04	19°M35'54		direct	3112 Nov 10 19:36	2°M47'03	
direct	3111 Nov 27 21:32	18°M29'30		morning max el	3112 Nov 17 11:59	6°M27′12	18°35'45
morning max el	3111 Dec 05 01:08	22°M30'18	19°23'21		3112 Dec 03 23:29	0° ∡ ¹	
	3111 Dec 11 05:29	0°⊀		morning set	3112 Dec 08 00:37	6° ≯ ¹26′16	
greatest brilliancy	3111 Dec 18 11:24	10° ∡ 30'55	-0.7m	desc. node	3112 Dec 13 08:30	14° ₹ 53'41	
desc. node	3111 Dec 27 11:28	24° ≯ 18′26			3112 Dec 22 22:46	0°ಕ	
morning set	3111 Dec 29 03:38	26° ₹ 53'50					
	3111 Dec 31 03:38	0° る		superior conj	3112 Dec 24 01:02	1°₹43′05	
max. Earth dist.	3112 Jan 11 09:25	17° පි 35'11	1.44655 AU	minimum elong	3112 Dec 23 16:52	1° る 11'02	
		_		max. Earth dist.	3112 Dec 24 03:13	1° る 51'36	1.45195 AU
superior conj	3112 Jan 14 21:43	23° る 09'45		evening rise	3113 Jan 08 20:29	26° පි 40'10	
minimum elong	3112 Jan 14 13:32	22° る 37'08	1°44'50		3113 Jan 10 22:38	0° ≈	
	3112 Jan 19 03:55	0°≈		greatest brilliancy	3113 Jan 17 10:58	10°≈21'28	-0.8m
evening rise	3112 Jan 29 03:44	16°≈24'55		evening max el	3113 Jan 30 19:15	29°≈03'48	18°57'00
1	3112 Feb 06 08:04	0°) (57125		1	3113 Jan 31 18:24	0° ∀	
asc. node	3112 Feb 15 20:44	13° 米 57'35 15° 米 36'31	10000125	asc. node	3113 Feb 01 17:45	0°₩50'12	
evening max el	3112 Feb 17 08:56		18°23'35	retrograde	3113 Feb 06 15:05	2° H 54'49	
retrograde	3112 Feb 23 20:38	19°) €08'07		evening set	3113 Feb 09 22:04	1° ¥ 52'15	
evening set	3112 Feb 26 21:19	18° ¥ 17'56	2020120	::	3113 Feb 12 04:45	30°R≈ 36°a a07145	2920117
inferior conj minimum elong	3112 Mar 03 18:55 3112 Mar 03 18:28	12° 米 50′16 12° 米 51′33	3°39'20 3°39'20	inferior conj minimum elong	3113 Feb 15 13:02 3113 Feb 15 11:20	26°≈07'45 26°≈13'06	3°28'17 3°28'04
•		12 X 31 33	0.64136 AU	min. Earth dist.			0.65685 AU
min. Earth dist. morning rise	3112 Mar 06 01:35 3112 Mar 09 14:55	6° H 41'58	0.07130 AU	morning rise	3113 Feb 17 04:15 3113 Feb 21 00:13	24°≈05'06 19°≈55'38	0.03003 AU
direct	3112 Mar 16 11:20	3° ¥ 53'55		direct	3113 Feb 21 00.13 3113 Feb 27 13:00	19 ≈33 38 17°≈04'43	
desc. node	3112 Mar 16 11:20 3112 Mar 24 10:37	6° \(55'02		desc. node	3113 Feb 27 13:00 3113 Mar 11 07:40	17 ≈0443 23°≈33'05	
morning max el	3112 Mar 24 10.37 3112 Mar 30 03:27	11°) 49'01	27°31'13	morning max el	3113 Mar 12 13:20	23 ≈33 03 24°≈45'47	26°40'12
morning max ci	3112 Mai 30 03.27 3112 Apr 13 14:31	0° Υ	21 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	morning max ci	3113 Mar 17 07:20	24 ≈ 4347 0° ∺	20 TU 12
	3112 Apr 13 14.31 3112 May 01 10:19	0° 8			3113 Mai 17 07.20 3113 Apr 07 01:10	0 Υ 0° Υ	
morning set	3112 May 04 04:38	5° 8 21'11		morning set	3113 Apr 17 12:05	18° Υ 38'11	
max. Earth dist.	3112 May 04 04.38 3112 May 09 03:02		1.33283 AU	max. Earth dist.	3113 Apr 21 17:43	26° Y 52'12	1.34532 AU
man. Durin tist.	5112 May 07 05.02	15 021 50	1.55205 AU	max. Darm dist.	3113 Apr 23 07:11	0° 8	1.5 (552 AU
superior conj	3112 May 12 03:57	21° 8 46'16	-0°17'27		5.1.5.1pi 25 07.11	. .	
superior conj	5.1.2 May 12 05.57		2 1 MI				

superior conj	3113 Apr 26 03:49	5° 8 51'10	-0°46'02	superior conj	3114 Apr 09 19:02	19° Ƴ 26'09	-1°14'05
minimum elong	3113 Apr 26 06:13	6° 8 03'34		minimum elong	3114 Apr 09 22:50	19° Υ 45'04	1°13'28
asc. node	3113 Apr 30 17:03	15° 8 22'10			3114 Apr 15 00:26	0°8	
evening rise	3113 May 03 17:08	21° 8 39'14		evening rise	3114 Apr 17 22:16	5° 8 55'31	
Ü	3113 May 07 20:00	0° I I		asc. node	3114 Apr 17 14:04	5° 8 13'59	
evening max el	3113 May 23 01:23	23° Ⅲ 04'12	21°05'00		3114 May 01 14:41	0°П	
retrograde	3113 Jun 03 20:11	28° Ⅱ 49'54		evening max el	3114 May 05 11:09	4° Ⅱ 25'22	19°51'00
evening set	3113 Jun 06 01:13	28° Ⅲ 38'30		retrograde	3114 May 15 12:14	9° Ⅱ 17'44	
desc. node	3113 Jun 07 06:51	28° Ⅲ 22'41		evening set	3114 May 17 11:52	9° Ⅱ 07'10	
inferior conj	3113 Jun 15 09:56	24° Ⅱ 40′28	-2°20'45	desc. node	3114 May 25 03:53	5° Ⅱ 49'55	
minimum elong	3113 Jun 15 03:29	24° Ⅱ 49'34	2°18'33	inferior conj	3114 May 26 08:44	5° Ⅱ 06'07	-0°21'12
min. Earth dist.	3113 Jun 15 22:54	24° Ⅲ 22'11	0.54864 AU	minimum elong	3114 May 26 07:46	5° Ⅱ 07'36	0°20'49
morning rise	3113 Jun 24 05:49	20° Ⅲ 39'58		min. Earth dist.	3114 May 28 12:14	3° Ⅱ 47'24	0.55447 AU
direct	3113 Jun 27 16:42	20° Ⅱ 14'11		morning rise	3114 Jun 04 01:30	0°耳38'31	
morning max el	3113 Jul 10 13:03	26° Ⅲ 21'55	22°36'56		3114 Jun 07 12:28	30° ₹ 8	
	3113 Jul 14 00:28	0ංම		direct	3114 Jun 08 07:41	29° 8 58'33	
asc. node	3113 Jul 27 16:18	21° © 20'33			3114 Jun 09 02:52	Π °0	
	3113 Jul 31 23:38	$0^{\circ}\Omega$		morning max el	3114 Jun 22 04:02	6° Ⅱ 51'17	24°19'41
morning set	3113 Aug 01 17:03	1° Ω 31′00			3114 Jul 08 20:35	0 \circ \odot	
				asc. node	3114 Jul 14 13:20	10° © 56'50	
superior conj	3113 Aug 08 20:06	16° Ω 42'07	1°37'52	morning set	3114 Jul 17 04:50	16° 5 26'17	
minimum elong	3113 Aug 08 18:23	16° Ω 33'03	1°37'45		3114 Jul 23 11:31	$0 {\circ} \Omega$	
max. Earth dist.	3113 Aug 11 21:44	23° Ω 09'02	1.34102 AU				
	3113 Aug 15 06:25	O° My		superior conj	3114 Jul 24 04:25	1° Ω 31'45	1°25'59
evening rise	3113 Aug 16 16:33	2° Mp 48'52		minimum elong	3114 Jul 24 02:08	1° Ω 19′25	1°25'42
	3113 Sep 01 04:18	0∘ ত		max. Earth dist.	3114 Jul 26 00:26	5° Ω 29'40	1.33034 AU
desc. node	3113 Sep 03 06:12	3° ≙ 10′27		evening rise	3114 Jul 31 12:16	17° Ω 00′13	
evening max el	3113 Sep 20 08:25	24° ≙ 35'41	27°10'17		3114 Aug 07 05:43	0° ™	
	3113 Sep 27 08:26	0°M₊		desc. node	3114 Aug 21 03:13	22° m 33'43	
retrograde	3113 Oct 03 16:58	1°M53'41			3114 Aug 26 17:51	0∘ ⊽	
	3113 Oct 09 12:03	30° ₹ Ω		evening max el	3114 Sep 02 19:27	7° ≏ 45'11	27°26'21
evening set	3113 Oct 10 14:52	29° ≏ 11'18		retrograde	3114 Sep 16 11:22	15° ≏ 01'44	
min. Earth dist.	3113 Oct 14 11:21	25° £ 29'34		evening set	3114 Sep 23 15:43	12° ≏ 25'16	
inferior conj	3113 Oct 16 14:33	23° ≙ 07'00		min. Earth dist.	3114 Sep 27 07:21	9° Ω 16'15	0.63444 AU
minimum elong	3113 Oct 16 18:24	22° ≙ 56'17	2°18'08	inferior conj	3114 Sep 29 22:52	6° Ω 36'56	
morning rise	3113 Oct 22 22:52	17° ≙ 34'05		minimum elong	3114 Sep 30 04:06	6° Ω 23'46	3°16'45
asc. node	3113 Oct 23 15:31	17° £ 17'00		morning rise	3114 Oct 06 17:47	1° ≏ 20'41	
direct	3113 Oct 25 15:03	16° ≙ 56'01		direct	3114 Oct 09 05:10	0° Ω 51'12	
morning max el	3113 Nov 01 03:00	20° £ 24'44	18°04'48	asc. node	3114 Oct 10 12:33	0° Ω 59'37	
	3113 Nov 08 10:02	0°M		morning max el	3114 Oct 15 19:25	4° Ω 16'41	17°51'17
morning set	3113 Nov 19 03:05	17°M26'44		morning set	3114 Nov 01 07:10	29° Ω 41'21	
	3113 Nov 26 18:18	0° ∡ 7			3114 Nov 01 11:27	0°M₊	
desc. node	3113 Nov 30 05:32	5° ≯ 36'15			211421 12 10 52	200 m 22150	002456
	2112 D 02 07 25	100 721127	0020150	superior conj	3114 Nov 13 10:53	20°M23'59	0°24'56
superior conj	3113 Dec 03 07:25	10° ₹ 31'37		minimum elong	3114 Nov 13 13:26	20°M34'31	0°24'35
minimum elong max. Earth dist.	3113 Dec 03 04:49	10° ₹21'14	0°20'29 1.44995 AU	desc. node	3114 Nov 17 02:33	26°M22'43 0°⊀	
max. Earth dist.	3113 Dec 06 22:18	16°×15'32	1.44995 AU	may Earth dist	3114 Nov 19 08:27		1 44001 ATT
evening rise	3113 Dec 15 17:20 3113 Dec 19 16:11	6° る 07'23		max. Earth dist. evening rise	3114 Nov 19 15:55 3114 Nov 29 01:24	0° ₹ 29'53 15° ₹ 14'34	1.44081 AU
greatest brilliancy	3114 Jan 02 02:22	6 307 23 26° 3 38'57	0.7m	evening rise	3114 Nov 29 01:24 3114 Dec 08 18:58	0°중	
greatest offinality	3114 Jan 04 08:53	20 ⊙ 38 37	-0.7111	evening max el	3114 Dec 08 18:38 3114 Dec 28 02:29	0 3 26° る 05'46	20°50'27
evening max el	3114 Jan 14 01:31	0 ≈ 12° ≈ 34'11	19°46'46	evening max er	3114 Dec 28 02:29 3115 Jan 01 21:52	20 3 03 40 0° ≈	20 30 27
asc. node	3114 Jan 19 14:46	12 ≈3411 16°≈34'09	19 40 40	retrograde	3115 Jan 05 10:22	0 ∞ 1°≈01'16	
retrograde	3114 Jan 21 12:26	16°≈53'52		asc. node	3115 Jan 06 11:49	0°≈55'04	
evening set	3114 Jan 25 03:03	10 ≈3332 15°≈37'41		asc. Houc	3115 Jan 08 17:10	0 ≈33 04 30°Rる	
inferior conj	3114 Jan 30 13:55	9°≈38'37	3°04'58	evening set	3115 Jan 09 10:16	29° ට 30'10	
minimum elong	3114 Jan 30 13:33	9°≈46'33	3°04'26	inferior conj	3115 Jan 14 19:03	23°る10'10	2°32'00
min. Earth dist.	3114 Jan 31 14:38	8°≈16'36	0.66824 AU	minimum elong	3115 Jan 14 16:31	23° ට 27'55	2°31'14
morning rise	3114 Jan 31 14.38 3114 Feb 04 19:45	3°≈25'12	0.00027 AU	min. Earth dist.	3115 Jan 15 06:47	23 3 27 33 22° 3 38'58	0.67552 AU
direct	3114 Feb 04 19:43 3114 Feb 10 20:28	0°≈43'45		morning rise	3115 Jan 19 22:35	22 3 3838	0.01334 AU
morning max el	3114 Feb 10 20:28 3114 Feb 22 22:17	0 ≈43 43 7°≈55'50	25°26'39	direct	3115 Jan 25 08:52	17 30011 14° 3 42'36	
desc. node	3114 Feb 26 04:44	11°≈27'21		morning max el	3115 Feb 05 06:42	14 34230 21°る12'47	24°00'34
acse, noue	3114 Mar 12 04:42	0° \		morning max ci	3115 Feb 03 00:42 3115 Feb 12 20:51	21 3 1247 0° ≈	27 VV J7
	3114 Mar 30 13:29	0°Υ		desc. node	3115 Feb 12 20:31 3115 Feb 13 01:47	0 ∞ 0°≈15'46	
morning set	3114 Mar 31 03:59	1° Υ 05'31		desc. Houe	3115 Mar 05 11:00	0°) €	
max. Earth dist.	3114 Apr 03 20:56	7° Υ 56'46	1.36234 AU	morning set	3115 Mar 12 22:29	12° ¥ 26'53	
Durtii dibt.	511.11pi 05 20.50	, 13040	1.50251710	max. Earth dist.	3115 Mar 16 17:03	12 ★ 2033	1.38287 AU
				Landing and the	10 17.00	-, ,(3331	

	3115 Mar 22 16:10	0°Υ		superior conj	3116 Mar 05 08:20	14° ¥ 25'57	-1°58'15
				minimum elong	3116 Mar 05 12:03	14°) 42'45	1°58'01
superior conj	3115 Mar 23 22:01	2° Y 21'15	-1°39'16	-	3116 Mar 13 17:56	0° Y	
minimum elong	3115 Mar 24 02:34	2° Y 42'50	1°38'44	evening rise	3116 Mar 15 09:02	3° Y 04'31	
evening rise	3115 Apr 01 20:36	19° Y 46'25		asc. node	3116 Mar 21 08:11	14° Y °07'27	
asc. node	3115 Apr 04 11:07	24° Y 50'48		evening max el	3116 Mar 31 13:35	28° Y 59'55	18°22'02
	3115 Apr 07 04:34	9° 8			3116 Apr 01 16:05	0°8	
evening max el	3115 Apr 18 08:07	16° 8 25'36	18°56'23	retrograde	3116 Apr 07 21:19	2° 8 37'47	
retrograde	3115 Apr 26 19:13	20° 8 33'06		evening set	3116 Apr 10 07:10	2° 8 15'13	
evening set	3115 Apr 28 22:49	20° 8 18'12			3116 Apr 14 13:41	30° ₹Ƴ	
inferior conj	3115 May 07 00:28	16° 8 01'43	1°24'33	inferior conj	3116 Apr 17 13:43	27° Y 38'49	2°38'59
minimum elong	3115 May 07 03:31	15° 8 56'18	1°23'32	minimum elong	3116 Apr 17 17:27	27° Y 31'02	2°38'03
min. Earth dist.	3115 May 10 03:58	13° 8 48'48	0.56873 AU	min. Earth dist.	3116 Apr 21 00:19	24° Y 48'34	0.58849 AU
desc. node	3115 May 12 00:56	12° 8 36'26		morning rise	3116 Apr 25 00:53	22° Y ′05'37	
morning rise	3115 May 15 05:05	10° 8 58'54		desc. node	3116 Apr 27 21:59	20° Y 53′23	
direct	3115 May 20 11:18	9° 8 52'58		direct	3116 May 01 04:56	20° Y ′24'30	
morning max el	3115 Jun 03 18:45	17° 8 17'56	25°55'06	morning max el	3116 May 15 14:15	28° Y ′09'35	27°07'22
	3115 Jun 14 05:46	0°Щ			3116 May 17 09:27	0° 8	
asc. node	3115 Jul 01 10:24	0°5548'31			3116 Jun 06 21:23	0°П	
	3115 Jul 01 01:09	0°95		morning set	3116 Jun 15 01:30	16° Ⅱ 04'10	
morning set	3115 Jul 01 16:12	1° 5 19'08		asc. node	3116 Jun 17 07:27	20° ∏ 50′23	
	2115 1 1 00 15 22	1.60607111	1000105		3116 Jun 21 12:14	0ಂಣ	
superior conj	3115 Jul 08 15:23	16°527'11	1°09'25		2116 1 22 02 12	10€22122	0040154
minimum elong	3115 Jul 08 13:03	16°5014'20	1°09'02	superior conj	3116 Jun 22 03:12	1°522'33	0°48'54
max. Earth dist.	3115 Jul 09 09:30	18°506'38	1.32365 AU	minimum elong	3116 Jun 22 01:16	1°511'51	0°48'31
arranina riaa	3115 Jul 14 21:51	0° Ω		max. Earth dist.	3116 Jun 21 21:17	0°549'57	1.32094 AU
evening rise	3115 Jul 15 15:30 3115 Jul 31 04:31	1° Ω 32'12 0° m		evening rise	3116 Jun 28 23:40	16° © 16'49 0° Ω	
desc. node	3115 Aug 08 00:14	پراہاں 11°12'11ر10°11		desc. node	3116 Jul 05 19:51 3116 Jul 24 21:15	28° Ω 47'23	
evening max el	3115 Aug 16 02:24	20° Mp 19'13	27°10'43	desc. Hode	3116 Jul 26 00:04	0° M)	
retrograde	3115 Aug 10 02:24 3115 Aug 29 22:46	20 m/1913 27° m/32'44	27 1043	evening max el	3116 Jul 28 02:46	2°Mp07'15	26°21'55
evening set	3115 Sep 06 01:43	25° Mp 14'24		retrograde	3116 Aug 11 02:12	9° m) 18'09	20 21 33
min. Earth dist.	3115 Sep 00 01:45 3115 Sep 09 16:40	22° m) 29'49	0.61558 AU	evening set	3116 Aug 17 02:12 3116 Aug 17 16:08	7° Mg 30'47	
inferior conj	3115 Sep 12 18:51	19° m) 45'18		min. Earth dist.	3116 Aug 21 15:54	4° Mg 55'27	0.59493 AU
minimum elong	3115 Sep 12 10:31 3115 Sep 13 00:29	19° m 32'44	4°10'09	inferior conj	3116 Aug 24 22:56	2° m) 22'35	
morning rise	3115 Sep 20 00:57	14° m) 49'18	1 10 0)	minimum elong	3116 Aug 25 02:57	2° m) 14'47	4°50'37
direct	3115 Sep 22 10:16	14° m) 25'26		mmmum viong	3116 Aug 28 04:45	30°R Ω	. 5057
asc. node	3115 Sep 27 09:37	16° m) 12'52		morning rise	3116 Sep 01 15:55	27° Ω 49'18	
morning max el	3115 Sep 29 10:15	17° m 55'59	17°56'14	direct	3116 Sep 04 02:01	27° Ω 28'40	
C	3115 Oct 08 01:46	0 ° $\overline{\mathbf{v}}$			3116 Sep 10 10:32	0° m)	
morning set	3115 Oct 15 06:29	12° ჲ 50′50		morning max el	3116 Sep 11 20:13	1° mg 13'51	18°20'50
-	3115 Oct 24 19:22	0° M		asc. node	3116 Sep 13 06:42	2° m/43'31	
				morning set	3116 Sep 27 19:28	26° m 39'13	
superior conj	3115 Oct 25 17:25	1°M36'08	1°01'16		3116 Sep 29 13:31	0∘ ⊽	
minimum elong	3115 Oct 25 21:45	1° M 54'57	1°00'43				
max. Earth dist.	3115 Nov 02 05:14	14°M16'39	1.42567 AU	superior conj	3116 Oct 06 23:53	13° ≏ 58′28	1°26'02
desc. node	3115 Nov 03 23:34	17° M 09'55		minimum elong	3116 Oct 07 03:31	14° ≏ 15'05	1°25'41
evening rise	3115 Nov 08 16:25	24°M41'48		max. Earth dist.	3116 Oct 14 12:45	27° ≏ 21'06	1.40649 AU
	3115 Nov 12 01:54	0°⊀			3116 Oct 16 02:04	0° M	
	3115 Dec 02 19:15	0°₹		evening rise	3116 Oct 19 02:33	5°M02'23	
evening max el	3115 Dec 10 21:54	9° る 38'30	22°04'30	desc. node	3116 Oct 20 20:34	7° ™ 54'09	
retrograde	3115 Dec 20 07:06	15° ⋜ 13'36			3116 Nov 04 07:11	0° ∡	
asc. node	3115 Dec 24 08:52	13° る 44'15		evening max el	3116 Nov 22 12:52	23° ∡ 13′28	23°24'03
evening set	3115 Dec 24 17:59	13° る 26'31		retrograde	3116 Dec 03 01:04	29° ₹ 26'39	
inferior conj	3115 Dec 30 02:22	7° る 07'01	1°51'13	evening set	3116 Dec 08 00:31	27° ₹ 23'10	
minimum elong	3115 Dec 30 00:10	7°る14'39	1°50'25	asc. node	3116 Dec 10 05:56	25° ₹ 07'32	1000154
min. Earth dist.	3115 Dec 30 02:26	7° る 06'47	0.67893 AU	inferior conj	3116 Dec 13 09:59	20° 🗷 59'02	1°03'54
morning rise	3116 Jan 04 06:13	0°る55'56		minimum elong	3116 Dec 13 08:32	21°× 7 '03'57	1°03'20
direct	3116 Jan 05 12:19	30°₹ ⋌ ¹ 20°. ∡ 154!25		min. Earth dist.	3116 Dec 12 23:14	21° х 35'53	0.67879 AU
direct	3116 Jan 09 01:29 3116 Jan 12 22:23	28°矛54'25 0°る		morning rise direct	3116 Dec 18 16:30	14° ₹ 51'44 13° ₹ 13'02	
marning me1	3116 Jan 12 22:23 3116 Jan 18 17:17	0°る 4° る 36'33	22022100		3116 Dec 22 21:27 3116 Dec 31 09:15	13°×'13'02 18°×'08'55	21°09'07
morning max el desc. node	3116 Jan 18 17:17 3116 Jan 30 22:50	19° 石 43'03	22°32'00	morning max el	3116 Dec 31 09:15 3117 Jan 10 01:16	0°る。	21 090/
dese. Houe	3116 Jan 30 22:30 3116 Feb 07 02:57	19 3 43 03 03 03 03 03 03 03 03 03 03 03 03 03		desc. node	3117 Jan 16 19:51	0 3 9° る 37'45	
morning set	3116 Feb 21 13:48	0 ∞ 22°≈28'51		dese. Houc	3117 Jan 30 06:29	9° ≈	
	3116 Feb 26 02:15	0° ∀		morning set	3117 Jan 30 00:29	0 ∞ 1°≈11'55	
max. Earth dist.	3116 Feb 26 13:25		1.40456 AU	max. Earth dist.	3117 Feb 07 15:22	13° ≈ 23'00	1.42458 AU
	222220 20 10.20	- / (1/1/		Landi dibt.		12 12 25 00	

3118 Jan 09 20:51

morning set

9°る19'27

3118 Dec 20 03:15

morning set

18°**∡**¹06'30

desc. node	3118 Dec 21 13:54	20° ∡ *21'52		morning set	3119 Nov 30 12:47	28°M17'01	
	3118 Dec 27 17:49	5°0			3119 Dec 01 14:16	0°⊀	
max. Earth dist.	3119 Jan 03 17:23	10°る57'00	1.44981 AU	desc. node	3119 Dec 08 10:56	11° ∡ 700′42	
superior conj	3119 Jan 05 18:25	14° る 10'13	-1°31'40	superior conj	3119 Dec 15 20:16	22° ∡ ⁴42'13	-0°48'40
minimum elong	3119 Jan 05 09:20	13° る 34'25	1°30'46	minimum elong	3119 Dec 15 14:05	22° ҂ 17'57	0°47'52
	3119 Jan 15 16:35	0° ≈		max. Earth dist.	3119 Dec 17 12:38	25° 渘 ¹20'48	1.45199 AU
evening rise	3119 Jan 20 18:06	8° ≈ 13′06			3119 Dec 20 11:50	0°ප	
	3119 Feb 03 08:09	0° ∀		evening rise	3120 Jan 01 01:15	18° පි 06'24	
asc. node	3119 Feb 09 23:16	8°) 35′36			3120 Jan 08 15:28	0° ≈	
evening max el	3119 Feb 10 00:48	8°) 39′32	18°35'41	greatest brilliancy	3120 Jan 11 21:24	5° ≈ 01'54	-0.8m
retrograde	3119 Feb 16 14:51	12°) (17′47		evening max el	3120 Jan 24 09:35	22° ≈ 08'31	19°16'13
evening set	3119 Feb 19 18:12	11°) 22′16		asc. node	3120 Jan 27 20:18	25° ≈ 01'12	
inferior conj	3119 Feb 25 12:37	5°) 47′06	3°36'21	retrograde	3120 Jan 31 10:59	26°≈10'50	
minimum elong	3119 Feb 25 11:34	5° ¥ 50'14	3°36'17	evening set	3120 Feb 03 21:04	25°≈02'30	
min. Earth dist.	3119 Feb 27 12:35	3°) €23'48	0.64849 AU	inferior conj	3120 Feb 09 09:58	19° ≈ 11'13	3°19'44
	3119 Mar 02 17:59	30°R≈		minimum elong	3120 Feb 09 07:54	19° ≈ 17'52	3°19'23
morning rise	3119 Mar 03 04:27	29° ≈ 37'04		min. Earth dist.	3120 Feb 10 18:45	17° ≈ 25'44	0.66219 AU
direct	3119 Mar 09 22:22	26°≈46'20		morning rise	3120 Feb 14 18:29	12°≈58'15	0.00217110
uncer	3119 Mar 18 01:46	0° ∀		direct	3120 Feb 21 02:24	10°≈10'26	
desc. node	3119 Mar 19 13:05	1°) €07'52		morning max el	3120 Mar 04 18:07	17°≈40'49	26°11'10
morning max el	3119 Mar 23 08:17	4°\(\frac{1}{36}\)'09	27012153	desc. node	3120 Mar 05 10:08	18° ≈ 21'49	20 11 10
morning max ci	3119 Apr 11 14:48	4 γ (300)	27 12 33	uese. Houe	3120 Mar 15 02:12	0° \	
morning set	3119 Apr 27 20:23	28° Υ 24'55			3120 Mai 13 02.12 3120 Apr 03 13:48	0°Υ	
morning set	•	0° 8		marning act	•	0 ¶ 11° Υ 22'42	
F4b 4i-4	3119 Apr 28 15:52	_	1 22764 ATT	morning set	3120 Apr 09 21:51		1 25211 ATT
max. Earth dist.	3119 May 02 11:27	7° 8 38'57	1.33764 AU	max. Earth dist.	3120 Apr 13 21:30	18° Ƴ 58'11	1.35211 AU
gunariar aani	2110 May 06 02:01	15° 8 08'48	0°20'21	superior coni	2120 Apr 19 22:24	29° Ƴ 01'52	0050107
superior conj	3119 May 06 02:01	15° 8 16'47		superior conj	3120 Apr 18 22:34	29° \gamma 101 32 29° \gamma 17'19	
minimum elong	3119 May 06 03:32	_	0 29 12	minimum elong	3120 Apr 19 01:36		0 3/33
asc. node	3119 May 08 22:33	21° 8 12'14		1	3120 Apr 19 09:57	0°8	
evening rise	3119 May 13 09:22	0° Ⅱ 38'41		asc. node	3120 Apr 24 19:35	11° 8 10'17	
	3119 May 13 02:00	0° Π		evening rise	3120 Apr 26 17:14	15° 8 06'10	
	3119 May 30 07:35	0° ©			3120 May 04 09:08	0°II	
evening max el	3119 Jun 03 02:09	4° © 10'36	21°55'02	evening max el	3120 May 15 04:46	15° Ⅱ 08'10	20°31'07
retrograde	3119 Jun 15 17:05	10° © 24'34		retrograde	3120 May 26 06:18	20° Ⅲ 31'38	
desc. node	3119 Jun 15 12:17	10° © 24'28		evening set	3120 May 28 07:10	20° Ⅲ 21′26	
evening set	3119 Jun 18 09:24	10° © 08'30		desc. node	3120 Jun 01 09:19	19° Ⅱ 05'51	
inferior conj	3119 Jun 27 18:17	6° ॐ 04'34	-3°23'01	inferior conj	3120 Jun 06 12:17	16° Ⅱ 23'37	
minimum elong	3119 Jun 27 10:08	6° ॐ 15′59	3°20'38	minimum elong	3120 Jun 06 08:01	16° Ⅱ 29'47	
min. Earth dist.	3119 Jun 27 06:26	6° © 21'10	0.54977 AU	min. Earth dist.	3120 Jun 07 18:40	15° Ⅲ 39'38	0.54997 AU
morning rise	3119 Jul 06 12:20	2° 5 012'19		morning rise	3120 Jun 15 08:00	12° Ⅱ 13′29	
direct	3119 Jul 09 16:04	1° 5 50'21		direct	3120 Jun 19 01:52	11° Ⅱ 43′16	
morning max el	3119 Jul 21 16:18	7° 5 27'46	21°40'23	morning max el	3120 Jul 02 10:29	18° Ⅱ 11'16	23°20'40
asc. node	3119 Aug 04 21:48	27° © 33'55			3120 Jul 12 02:07	0ං ම	
	3119 Aug 06 04:52	$0^{\circ}\Omega$		asc. node	3120 Jul 21 18:51	16° © 58'04	
morning set	3119 Aug 11 08:01	10° Ω 17'42		morning set	3120 Jul 25 19:17	25°511'38	
					3120 Jul 28 01:30	$0^{\circ}\Omega$	
superior conj	3119 Aug 18 14:34	25° Ω 36′03	1°42'16				
minimum elong	3119 Aug 18 13:26	25° Ω 30′05	1°42'13	superior conj	3120 Aug 01 20:25	10° Ω 18'57	1°33'26
	3119 Aug 20 17:30	0° m		minimum elong	3120 Aug 01 18:25	10° Ω 08'11	1°33'16
max. Earth dist.	3119 Aug 22 11:27	3° mp 33'38	1.34905 AU	max. Earth dist.	3120 Aug 04 09:04	15° Ω 41'50	1.33591 AU
evening rise	3119 Aug 26 20:56	12°Mp12'51		evening rise	3120 Aug 09 10:50	26° Ω 07'15	
C	3119 Sep 05 19:13	0∘ <u>⊽</u>		C	3120 Aug 11 10:12	0° m)	
desc. node	3119 Sep 11 11:38	9° ₽ 06'09		desc. node	3120 Aug 28 08:38	28° mp 49'03	
desc. node	3119 Sep 27 01:46	0°M		dose. Hode	3120 Aug 29 04:07	0∘ ರ	
evening max el	3119 Oct 01 02:20	4°M11'46	26°48'30	evening max el	3120 Sep 12 14:11	0 — 17° Ω 34'31	27°20'43
retrograde	3119 Oct 14 04:07	11°M27'14	20 40 30	retrograde	3120 Sep 26 02:20	24° £ 53'01	27 20 43
evening set	3119 Oct 20 20:14	8°M45'57		evening set	3120 Oct 03 03:49	22° £ 11'22	
min. Earth dist.	3119 Oct 20 20:14 3119 Oct 24 20:17		0.65789 AU	min. Earth dist.	3120 Oct 05 03.49 3120 Oct 06 21:47		0.64389 AU
inferior conj	3119 Oct 26 16:29	2°M34'44		inferior conj	3120 Oct 09 06:25	16° £ 13'24	
minimum elong	3119 Oct 26 19:22	2°M26'19	1~45.48	minimum elong	3120 Oct 09 10:56	16° ♀ 01'22	2~43′20
	3119 Oct 28 23:30	30° ₹ Ω		morning rise	3120 Oct 15 19:10	10° £ 47'30	
asc. node	3119 Oct 31 21:00	27° £ 27'15		asc. node	3120 Oct 17 18:04	10° £ 15'35	
morning rise	3119 Nov 01 19:14	26° £ 54'01		direct	3120 Oct 18 08:56	10° ≙ 13'35	
direct	3119 Nov 04 15:29	26° Ω 09'18		morning max el	3120 Oct 24 21:05	13° Ω 39'55	17°56'59
morning max el	3119 Nov 11 04:59	29° Ω 43'07	18°20'35		3120 Nov 05 06:42	0°M	
	3119 Nov 11 11:38	0°M₊		morning set	3120 Nov 11 02:55	9° M 51′30	

3122 Sep 14 19:39

7°m/23'16

3121 Sep 22 15:30

29° m/21'59 3°40'28

direct

minimum elong

asc. node morning max el	3122 Sep 21 12:11 3122 Sep 22 02:21 3122 Oct 04 15:57	10° Mp 26'01 10° Mp 59'06 0° <u>₽</u>	18°04'06	direct morning max el asc. node	3123 Aug 28 04:39 3123 Sep 05 09:09 3123 Sep 08 09:13	20° Ω 10'13 24° Ω 04'40 27° Ω 24'50	18°37'31
morning set	3122 Oct 07 21:40	5° ≙ 59'29		morning set	3123 Sep 10 07:05 3123 Sep 21 15:09	0° mp 20° mp 01'16	
superior conj	3122 Oct 17 18:22	24° ≙ 04'17	1°13'11		3123 Sep 26 18:40	0∘ ⊽	
minimum elong	3122 Oct 17 22:36	24° £ 23′07	1°12'41				
	3122 Oct 21 03:25	0°M	1 41702 ATT	superior conj	3123 Sep 30 09:21	6° £ 51'56	1°33'12
max. Earth dist.	3122 Oct 25 09:36 3122 Oct 29 01:59	7°M14'52 13°M19'22	1.41793 AU	minimum elong max. Earth dist.	3123 Sep 30 12:19 3123 Oct 07 15:46	7° ≙ 05'49 20° ≙ 03'03	1°32'57 1.39778 AU
evening rise	3122 Oct 29 01.39 3122 Oct 30 22:20	16°M18'25		evening rise	3123 Oct 07 13.46 3123 Oct 11 18:31	20 ≗ 03 03 27° ₽ 07'00	1.39//8 AU
evening rise	3122 Oct 30 22:20 3122 Nov 08 17:36	0° √		evening rise	3123 Oct 11 16:51 3123 Oct 13 11:58	0°M	
	3122 Nov 30 15:59	0°ප		desc. node	3123 Oct 15 23:00	4°M01'32	
evening max el	3122 Dec 03 05:38	2° ප් 45'21	22°38'07		3123 Nov 02 08:11	0°⊀	
retrograde	3122 Dec 13 02:11	8° ප 36'35		evening max el	3123 Nov 15 19:25	16° ∡ "22'30	23°58'03
evening set	3122 Dec 17 18:16	6° る 42'39		retrograde	3123 Nov 26 18:27	22° х 49′23	
asc. node	3122 Dec 18 11:27	6° る 04'29		evening set	3123 Dec 01 23:48	20° ∡ 38'51	
inferior conj	3122 Dec 23 02:57	0°る20'57		asc. node	3123 Dec 05 08:28	16° ₹ 59'40	
minimum elong	3122 Dec 23 01:02	0°る27'37	1°31'08	inferior conj	3123 Dec 07 10:07	14° 🖈 14'13	0°42'10
min. Earth dist.	3122 Dec 22 22:25 3122 Dec 23 09:01	0°る36'40 30°R⊀	0.67932 AU	minimum elong min. Earth dist.	3123 Dec 07 09:08 3123 Dec 06 18:50	14° ₹ 17'34 15° ₹ 06'02	0°41'46 0.67773 AU
morning rise	3122 Dec 28 07:40	24° √ 11'18		morning rise	3123 Dec 10 18:30 3123 Dec 12 18:29	8° ₹ '00'02	0.07773 AU
direct	3123 Jan 01 20:49	22°×11110		direct	3123 Dec 12 18:27 3123 Dec 16 17:47	6°×7'40'09	
morning max el	3123 Jan 10 23:56	27° х 40'37	21°55'37	morning max el	3123 Dec 24 19:05	11° × 18'08	20°37'12
	3123 Jan 13 04:12	8°0		C	3124 Jan 08 04:01	8°0	
desc. node	3123 Jan 25 01:15	15° る 28'14		desc. node	3124 Jan 11 22:16	5° る 32'26	
	3123 Feb 03 21:52	0° ≈		morning set	3124 Jan 22 17:51	22° る 00'16	
morning set	3123 Feb 12 15:47	13° ≈ 39'57			3124 Jan 27 20:07	0° ≈	
max. Earth dist.	3123 Feb 18 13:58	23°≈21'42	1.41344 AU	max. Earth dist.	3124 Jan 31 19:53	6° ≈ 23′20	1.43191 AU
	3123 Feb 22 12:05	0°) €			2124 F 1 07 00 55	17000145	2005127
superior conj	3123 Feb 26 07:15	6°) 36'39	2003122	superior conj minimum elong	3124 Feb 07 08:55 3124 Feb 07 06:56	17°≈08'45 17°≈00'25	
minimum elong	3123 Feb 26 07:13 3123 Feb 26 09:53	6° X 48'15		minimum ciong	3124 Feb 07 00:36 3124 Feb 14 21:36	0° \	2 03 24
evening rise	3123 Mar 08 21:24	25° H 52'05	2 03 17	evening rise	3124 Feb 19 12:43	8° ₩ 07'22	
e vennig 1150	3123 Mar 11 03:03	0°Υ		asc. node	3124 Mar 02 07:47	28°) (07'01	
asc. node	3123 Mar 16 10:45	9° Y 31'56			3124 Mar 03 14:53	$0^{\circ}\mathbf{\Upsilon}$	
evening max el	3123 Mar 25 04:50	21° Y 50'10	18°13'32	evening max el	3124 Mar 07 16:39	4° Y 57'03	18°07'20
retrograde	3123 Apr 01 04:15	25° Y 20'09		retrograde	3124 Mar 14 05:07	8° Y 20'11	
evening set	3123 Apr 03 16:53	24° Y 53′25		evening set	3124 Mar 16 23:22	7° Y 43′09	
inferior conj	3123 Apr 10 16:12	20°Υ08'02	3°00'36	inferior conj	3124 Mar 23 08:33	2° Υ 37'16	
minimum elong	3123 Apr 10 19:30	20° Υ 00'41	2°59'57	minimum elong	3124 Mar 23 10:08	2°Υ33'13	3°31'24
min. Earth dist. morning rise	3123 Apr 14 01:28 3123 Apr 17 19:44	17° Υ 09'34 14° Υ 25'31	0.59769 AU	min. Earth dist.	3124 Mar 25 22:32 3124 Mar 26 08:05	30° ₹ 29° 升 36'38	0.61921 AU
desc. node	3123 Apr 23 00:27	12° Y 33'38		morning rise	3124 Mar 29 19:25	26° H 38'34	0.01921 AU
direct	3123 Apr 24 06:56	12° Υ 29'12		direct	3124 Apr 05 16:05	24°) 11'09	
morning max el	3123 May 08 14:54	20° Ƴ 18'44	27°28'15	desc. node	3124 Apr 08 21:29	24°)(40'54	
	3123 May 16 22:33	8° 0			3124 Apr 17 12:41	$0^{\circ}\Upsilon$	
	3123 Jun 04 06:45	$\Pi^{\circ}0$		morning max el	3124 Apr 19 19:13	2° Y 08'11	27°50'49
morning set	3123 Jun 09 01:40	9° ∏ 37'41			3124 May 10 06:15	0° 8	
asc. node	3123 Jun 12 10:00	16° Ⅱ 43'58		morning set	3124 May 23 04:44	24° 8 00'57	
max. Earth dist.	3123 Jun 15 13:19	23° Ⅱ 34'52	1.32107 AU	Earth diet	3124 May 26 01:56	0° П	1 22400 ATT
superior conj	3123 Jun 16 05:21	25° Ⅱ 03'07	0°39'11	max. Earth dist. asc. node	3124 May 28 22:43 3124 May 29 07:02	6°П07'33 6°П52'31	1.32409 AU
minimum elong	3123 Jun 16 03:43	24° I 54'05	0°38'50	asc. node	3124 Way 27 07.02	0 113231	
minimum crong	3123 Jun 18 11:17	0°95	0 30 20	superior conj	3124 May 30 15:21	9° Ⅱ 48'10	0°14'09
evening rise	3123 Jun 23 01:25	9° © 56'33		minimum elong	3124 May 30 14:42	9° Ⅱ 44'35	0°13'59
-	3123 Jul 03 08:33	$0^{\circ}\Omega$		behind sun begin	3124 May 30 12:15	9° Ⅱ 31'14	
desc. node	3123 Jul 19 23:42	23° Ω 11'36		behind sun end	3124 May 30 17:09	9° Ⅱ 57'57	
evening max el	3123 Jul 21 01:45	24° Ω 15'32	25°51'55	evening rise	3124 Jun 06 12:59	24° Ⅱ 47'20	
	3123 Jul 29 02:04	0° Т р			3124 Jun 09 00:46	0° ©	
retrograde	3123 Aug 04 01:19	1° m 23'43			3124 Jun 27 02:20	0°N	2.402.512 :
avanie+	3123 Aug 09 23:25	30°R€ 20° O 52122		evening max el	3124 Jul 01 16:29	5° Ω 00'43	24°25'34
evening set min. Earth dist.	3123 Aug 10 05:47 3123 Aug 14 14:03	29° Ω 52'32	0.58628 AU	desc. node retrograde	3124 Jul 05 20:44 3124 Jul 15 13:26	8° Ω 30'14 12° Ω 01'12	
inferior conj	3123 Aug 14 14.03 3123 Aug 17 19:54	24° Ω 54'00		evening set	3124 Jul 20 10:25	12 δ 01 12	
minimum elong	3123 Aug 17 19:34 3123 Aug 17 22:22	24° Ω 49'31		min. Earth dist.	3124 Jul 26 03:23		0.56743 AU
morning rise	3123 Aug 25 17:10	20° Ω 30'14		inferior conj	3124 Jul 28 20:11	6° Ω 31'39	

minimum elong	3124 Jul 28 17:14	6° Ω 36'21	4°59'36	desc. node	3125 Jun 22 17:44	21° © 31'22	
morning rise	3124 Aug 06 02:43	2° Ω 28'59	4 39 30	retrograde	3125 Jun 26 13:18	22° © 04'40	
direct	3124 Aug 08 18:38	2° Ω 09'48		evening set	3125 Jun 29 21:59	21°S39'52	
morning max el	3124 Aug 18 06:38	6° Ω 35'11	19°32'21	min. Earth dist.	3125 Jul 07 14:45		0.55385 AU
asc. node	3124 Aug 25 06:14	15° Ω 19'26	1) 3221	inferior conj	3125 Jul 09 01:35	17° © 25'41	
use. Hode	3124 Sep 02 11:06	0°m		minimum elong	3125 Jul 08 17:51	17°936'50	
morning set	3124 Sep 04 16:43	4° Mp 26'25		morning rise	3125 Jul 17 16:01	13°934'05	. 1100
				direct	3125 Jul 20 14:12	13°9514'07	
superior conj	3124 Sep 12 16:30	20° m 27'38	1°43'06	morning max el	3125 Jul 31 16:45	18° © 23'22	20°48'16
minimum elong	3124 Sep 12 17:41	20° m 33'28	1°43'04	C	3125 Aug 09 18:52	$0^{\circ}\Omega$	
Č	3124 Sep 17 15:34	0° ٽ		asc. node	3125 Aug 12 03:17	3° Ω 57'12	
max. Earth dist.	3124 Sep 18 19:52	2° ≙ 11'49	1.37710 AU	morning set	3125 Aug 19 23:42	19° Ω 07'50	
evening rise	3124 Sep 22 14:02	9° ഫ 00'23			3125 Aug 25 05:17	0° m	
desc. node	3124 Oct 01 20:01	24° ≙ 34'58					
	3124 Oct 05 06:59	0°M₊		superior conj	3125 Aug 27 11:11	4° M 38′02	1°44'36
	3124 Oct 28 06:29	0°⊀		minimum elong	3125 Aug 27 10:46	4° Mp35′55	1°44'36
evening max el	3124 Oct 28 07:34	0° ∡ 02'39	25°14'11	max. Earth dist.	3125 Sep 01 03:50	14° m 03'18	1.35835 AU
retrograde	3124 Nov 09 06:33	6° ₹ 57'15		evening rise	3125 Sep 05 05:37	21°M 50'56	
evening set	3124 Nov 15 01:52	4° ∡ ³31'33			3125 Sep 09 17:32	0∘ ⊽	
	3124 Nov 19 04:37	30°RM₊		desc. node	3125 Sep 18 17:04	14° ≙ 54'44	
min. Earth dist.	3124 Nov 19 12:59	29°M33'06	0.67273 AU		3125 Sep 29 02:26	0°M₊	
inferior conj	3124 Nov 20 15:03	28°M08'17		evening max el	3125 Oct 10 19:51	13° M 43'39	26°19'09
minimum elong	3124 Nov 20 15:22	28°M07'16	0°12'15	retrograde	3125 Oct 23 13:46	20°M54'48	
transit middle	3124 Nov 20 15:22	28°M07'16	0°12'15	evening set	3125 Oct 29 22:38	18° ™ 17'41	
transit begin	3124 Nov 20 13:33	28°M13'12		min. Earth dist.	3125 Nov 03 02:37	13°M54'44	0.66431 AU
transit end	3124 Nov 20 17:11	28°M01'21		inferior conj	3125 Nov 04 15:56	12°M00'30	
asc. node	3124 Nov 21 05:29	27°M21'32		minimum elong	3125 Nov 04 17:50		1°09'41
morning rise	3124 Nov 26 05:07	22°M10'38		asc. node	3125 Nov 08 02:29	8°M07'28	
direct	3124 Nov 29 16:11	21°M01'32	10021116	morning rise	3125 Nov 10 13:33	6°M12'32	
morning max el	3124 Dec 06 22:09	25°M06'32	19°31'46	direct	3125 Nov 13 14:30	5°M20'03	10041144
	3124 Dec 11 03:44	0° x ⁷	0.7	morning max el	3125 Nov 20 08:06	9° M .02'41 0° ∡ 7	18°41'44
greatest brilliancy desc. node	3124 Dec 20 03:26 3124 Dec 28 19:16	12° х 42'31 25° х 53'49	-0.7m	morning sat	3125 Dec 05 06:17 3125 Dec 11 07:57	0° x ¹ 9° x ¹35'26	
desc. node	3124 Dec 28 19:16 3124 Dec 31 11:04	23 x ・33 49		morning set desc. node	3125 Dec 11 07.57 3125 Dec 15 16:19	9 x · 33 26 16° ₹ 27'45	
morning set	3124 Dec 31 11:04 3124 Dec 31 15:07	0°る15'38		desc. Hode	3125 Dec 13 10:19 3125 Dec 24 06:55	10 x 2/43	
max. Earth dist.	3125 Jan 13 08:32	20° පි 08'48	1.44515 AU	max. Earth dist.	3125 Dec 27 00:55 3125 Dec 27 01:50		1.45167 AU
man zam usu	5125 Van 15 00.52	20 000 10	1	man. Barar alov.	51 2 6 500 2 7 01.60	. 0223.	1.10107110
superior conj	3125 Jan 17 08:28	26° පි 30'50	-1°49'37	superior conj	3125 Dec 27 13:15	5° ප 07'20	-1°14'50
minimum elong	3125 Jan 17 00:53	26° る 00'26	1°49'03	minimum elong	3125 Dec 27 04:36	4° る 33'26	1°13'52
	3125 Jan 19 12:30	0° ≈		evening rise	3126 Jan 12 04:11	29° る 51'51	
evening rise	3125 Jan 31 07:58	19° ≈ 28'11			3126 Jan 12 06:13	0° ≈	
	3125 Feb 06 14:39	0° ℋ		greatest brilliancy	3126 Jan 19 19:43	12° ≈ 06'52	-0.9m
asc. node	3125 Feb 17 04:48	16°) €01'12			3126 Feb 01 02:19	0° ℋ	
evening max el	3125 Feb 19 05:11	18° ∺ 16′26	18°20'08	evening max el	3126 Feb 02 16:00	1°) 43′25	18°50'58
retrograde	3125 Feb 25 16:21	21°) 45'59		asc. node	3126 Feb 04 01:49	3° ∺ 03′08	
evening set	3125 Feb 28 16:10	20°) 57′36		retrograde	3126 Feb 09 10:06	5°) 30'42	
inferior conj	3125 Mar 06 15:02	15°) 32'47	3°39'41	evening set	3126 Feb 12 16:07	4°) 30′00	
minimum elong	3125 Mar 06 14:50	15°) 33′22	3°39'41		3126 Feb 17 08:23	30°R≈	
min. Earth dist.	3125 Mar 09 00:06	12° ₩ 51'12	0.63874 AU	inferior conj	3126 Feb 18 07:54	28°≈47'57	
morning rise	3125 Mar 12 12:41	9°) €25'21		minimum elong	3126 Feb 18 06:21	28°≈52'45	3°30'38
direct	3125 Mar 19 09:45	6°) €38'44		min. Earth dist.	3126 Feb 20 01:23	26°≈39'39	0.65484 AU
desc. node	3125 Mar 26 18:29	9° 升 13'48	27927119	morning rise	3126 Feb 23 20:10	22°≈36'20	
morning max el	3125 Apr 02 03:41	14° ℋ 35'08 0° Ƴ	2/3018	direct desc. node	3126 Mar 02 10:31	19°≈44'58	
	3125 Apr 14 16:27	0° ∀			3126 Mar 13 15:31	25°≈38'05 27°≈28'43	26°49'26
morning set	3125 May 02 21:11 3125 May 07 00:34	7° と 59'18		morning max el	3126 Mar 15 13:26 3126 Mar 17 22:38	27 ≈2843 0° H	20 49 20
max. Earth dist.	3125 May 12 01:25	18° 8 15'50	1.33129 AU		3126 Mai 17 22:38 3126 Apr 08 08:51	0°Υ	
man. Darui Uist.	5125 Iviay 12 01.23	10 013 30	1.33147 AU	morning set	3126 Apr 08 08.51 3126 Apr 20 09:55	0 γ 21° Υ 22'28	
superior conj	3125 May 14 21:54	24° 8 18'33	-0°13'11	max. Earth dist.	3126 Apr 24 17:47	$29^{\circ}\Upsilon 50'57$	1.34314 AU
minimum elong	3125 May 14 22:33	24° 8 22'04	0°13'02	max. Dartii dist.	3126 Apr 24 17:47 3126 Apr 24 19:35	29 1 30 37	1.5 1517 AU
behind sun begin	3125 May 14 19:26	24° 8 05'24	3 13 02		5.20.1p. 27 17.55	v O	
behind sun end	3125 May 15 01:40	24° 8 38'45		superior conj	3126 Apr 28 22:50	8° 8 27'26	-0°41'42
asc. node	3125 May 16 04:05	27° 8 00'27		minimum elong	3126 Apr 29 01:00	8° 8 38'42	
	3125 May 17 13:26	0°II		asc. node	3126 May 03 01:08	17° 8 03'18	
evening rise	3125 May 22 00:37	9° Ⅲ 34'05		evening rise	3126 May 06 10:27	24° 8 10'19	
-	3125 Jun 01 15:38	0ಂತ		-	3126 May 09 06:41	0° Ⅱ	
evening max el	3125 Jun 13 06:15	15° © 27'30	22°49'14	evening max el	3126 May 26 02:44	26° Ⅱ 07'09	21°17'37

	2126 May 21, 02:41	0° ©		avanina rica	2127 Apr. 20 16:25	00820150	
rotro ara do	3126 May 31 02:41			evening rise	3127 Apr 20 16:25	8° 8 29'59 0° Ⅱ	
retrograde	3126 Jun 07 03:06	2°500'26			3127 May 02 11:27 3127 May 08 10:36	0°Щ 7°Щ21'38	20°00'44
evening set	3126 Jun 09 10:30	1°548'10		evening max el	,	7° П 21'38 12° П 21'53	20-00-44
desc. node	3126 Jun 09 14:46	1° © 46'14 30°R Ⅱ		retrograde	3127 May 18 17:53	12° П 21'33	
::	3126 Jun 14 17:35 3126 Jun 18 19:48	30°KⅡ 27°Ⅱ49'18	2020107	evening set	3127 May 20 17:31	9° П 29'48	
inferior conj				desc. node	3127 May 27 11:47		0020102
minimum elong	3126 Jun 18 12:43	27° Ⅱ 59'14		inferior conj	3127 May 29 16:49	8° Ⅱ 11'43	
min. Earth dist.	3126 Jun 19 02:22	27° I I40'06	0.54860 AU	minimum elong	3127 May 29 15:01	8° Ⅱ 14'27	
morning rise	3126 Jun 27 15:23	23° Ⅲ 51'35		min. Earth dist.	3127 May 31 15:14	7° Ⅱ 01'58	0.55303 AU
direct	3126 Jul 01 00:14	23° Ⅱ 26'59		morning rise	3127 Jun 07 10:40	3° ∏ 49'09	
morning max el	3126 Jul 13 15:38	29° ∏ 26′58	22°21'54	direct	3127 Jun 11 13:30	3° Ⅱ 12'07	
	3126 Jul 14 05:32	0 \circ \odot		morning max el	3127 Jun 25 07:10	9° ∏ 58'36	24°04'34
asc. node	3126 Jul 30 00:20	23° © 06'54			3127 Jul 10 03:43	0	
	3126 Aug 02 11:48	$0^{\circ}\Omega$		asc. node	3127 Jul 16 21:26	12° © 40'12	
morning set	3126 Aug 04 09:56	3° Ω 58'41		morning set	3127 Jul 19 21:38	18° © 53'35	
					3127 Jul 25 01:26	0 $^{\circ}$ Ω	
superior conj	3126 Aug 11 13:46	19° Ω 11'23	1°39'13				
minimum elong	3126 Aug 11 12:11	19° Ω 03'04	1°39'07	superior conj	3127 Jul 26 21:30	3° Ω 59'10	1°28'06
max. Earth dist.	3126 Aug 14 20:15	26° Ω 01'42	1.34301 AU	minimum elong	3127 Jul 26 19:17	3° Ω 47'09	1°27'51
	3126 Aug 16 18:59	0° m p		max. Earth dist.	3127 Jul 28 21:46	8° Ω 19'08	1.33165 AU
evening rise	3126 Aug 19 12:36	5°₩25'29		evening rise	3127 Aug 03 06:54	19° Ω 32'24	
	3126 Sep 02 10:20	0° ⊽			3127 Aug 08 16:03	0° m y	
desc. node	3126 Sep 05 14:06	4° £ 53'27		desc. node	3127 Aug 23 11:07	24° mp 22'11	
evening max el	3126 Sep 23 08:24	27° £ 16'54	27°05'23		3127 Aug 27 13:56	0∘ ⊽	
· ·	3126 Sep 26 10:20	0°M		evening max el	3127 Sep 05 19:44	10° ≏ 30'15	27°25'52
retrograde	3126 Oct 06 15:19	4°M34'09		retrograde	3127 Sep 19 10:39	17° ≏ 47'10	
evening set	3126 Oct 13 11:49	1°M51'54		evening set	3127 Sep 26 14:32	15° Ω 08'57	
e vennig see	3126 Oct 15 13:38	30° R Ω		min. Earth dist.	3127 Sep 30 06:41	11° Ω 55'36	0.63701 AU
min. Earth dist.	3126 Oct 17 09:15	28° £ 04'54	0.65239 AU	inferior conj	3127 Oct 02 20:27	9° £ 18'07	
inferior conj	3126 Oct 19 10:35	25° Ω 45'41		minimum elong	3127 Oct 02 20:27 3127 Oct 03 01:32	9° ₽ 05'09	
minimum elong	3126 Oct 19 14:10	25° Ω 35'32		morning rise	3127 Oct 09 01:32 3127 Oct 09 13:46	3° ≏ 59'17	3 00 00
morning rise	3126 Oct 25 17:24	20° ⊆ 10'31	2 07 03	direct	3127 Oct 07 13:40 3127 Oct 12 01:42	3° ≏ 28'43	
asc. node	3126 Oct 25 17:24 3126 Oct 25 23:32	20° ⊆ 1031 20° ⊆ 03'28		asc. node	3127 Oct 12 01:42 3127 Oct 12 20:37	3° £ 2843	
direct	3126 Oct 28 10:35	20 ⊆ 03 28 19° ⊆ 30'48			3127 Oct 12 20:37 3127 Oct 18 15:07	6° £ 54'01	17°52'11
			18°08'19	morning max el	3127 Oct 18 13.07 3127 Nov 02 20:29	0°M	1/ 3211
morning max el	3126 Nov 03 22:40	23° Ω 00'30	18 08 19				
	3126 Nov 09 12:22	0°M		morning set	3127 Nov 04 06:52	2°M28'41	
morning set	3126 Nov 22 06:11	20°M23'46			212537 16 15 20	220M 21120	0010120
	3126 Nov 28 02:55	0° ⊼		superior conj	3127 Nov 16 17:30	23°M31'20	0°18'30
desc. node	3126 Dec 02 13:22	7° ∡ *09'43		minimum elong	3127 Nov 16 19:28	23°M39'25	0°18'13
				desc. node	3127 Nov 19 10:24	27°M55'55	
superior conj	3126 Dec 06 17:50	13° ∡ ′50′07			3127 Nov 20 17:08	0° ∡ ¹	
minimum elong	3126 Dec 06 14:16	13° ∡ ³35′58		max. Earth dist.	3127 Nov 22 15:26	3° ∡ 05'32	1.44256 AU
max. Earth dist.	3126 Dec 09 21:13	18° ∡ 47'50	1.45073 AU	evening rise	3127 Dec 02 12:28	18° ∡ ′33'30	
	3126 Dec 17 01:03	0°る			3127 Dec 10 00:51	0° る	
evening rise	3126 Dec 23 02:40	9° る 25'44		evening max el	3127 Dec 31 00:49	28° る 45'37	20°40'11
greatest brilliancy	3127 Jan 04 22:11	29° る 07'00	-0.7m		3128 Jan 01 07:16	0° ≈	
	3127 Jan 05 12:20	0° ≈		retrograde	3128 Jan 08 05:18	3° ≈ 35'37	
evening max el	3127 Jan 16 23:03	15° ≈ 14'13	19°38'23	asc. node	3128 Jan 08 19:53	3° ≈ 33'35	
asc. node	3127 Jan 21 22:50	18° ≈ 59'04		evening set	3128 Jan 12 03:41	2° ≈ 06'46	
retrograde	3127 Jan 24 07:13	19° ≈ 29'00			3128 Jan 14 08:57	30°Ŗ⋜	
evening set	3127 Jan 27 20:39	18° ≈ 14'48		inferior conj	3128 Jan 17 12:38	25° る 57'15	2°37'31
inferior conj	3127 Feb 02 07:58	12° ≈ 17'41	3°09'09	minimum elong	3128 Jan 17 10:06	26° る 05'57	2°36'48
minimum elong	3127 Feb 02 05:39	12° ≈ 25′21	3°08'40	min. Earth dist.	3128 Jan 18 02:10	25° る 10'57	0.67467 AU
min. Earth dist.	3127 Feb 03 10:43	10° ≈ 49'37	0.66683 AU	morning rise	3128 Jan 22 16:20	19° る 44'01	
morning rise	3127 Feb 07 14:25	6°≈04'26		direct	3128 Jan 28 04:47	17° る 17'32	
direct	3127 Feb 13 17:06	3° ≈ 21'05		morning max el	3128 Feb 08 07:10	23° る 54'48	24°13'48
morning max el	3127 Feb 25 22:38	10° ≈ 38′02	25°38'40	Č	3128 Feb 13 17:28	0° ≈	
desc. node	3127 Feb 28 12:35	13°≈22'55		desc. node	3128 Feb 15 09:37	2° ≈ 04'21	
	3127 Mar 13 08:20	0° ∀			3128 Mar 05 18:29	0° ∀	
	3127 Mar 31 23:38	0°Υ		morning set	3128 Mar 15 02:35	15° ¥ 30'55	
morning set	3127 Apr 03 04:29	3° Υ 58'21		max. Earth dist.	3128 Mar 18 19:42	22° ¥ 04'34	1.37970 AU
max. Earth dist.	•	10° \gamma 59'23	1.35960 AU	max. Darui Uist.		22 π0434 0°Υ	1.31910 AU
max. Pattii üist.	3127 Apr 06 22:50	10 1 39 23	1.33900 AU		3128 Mar 23 03:19	v i	
superior conj							
	3127 Apr 12 15:35	22° Y 07'38	-1°09'57	superior conj	3128 Mar 25 20:38	5° Y ′09'22	-1°35'45
minimum elong	3127 Apr 12 15:35 3127 Apr 12 19:11	22° Υ 07'38 22° Υ 25'45		superior conj minimum elong	3128 Mar 25 20:38 3128 Mar 26 01:08	5° Υ 09'22 5° Υ 30'58	-1°35'45 1°35'12
	•						
	3127 Apr 12 19:11	22° Y 25'45		minimum elong	3128 Mar 26 01:08	5° Y 30'58	

	3128 Apr 07 13:30	0°8			3129 Apr 01 18:41	0° ႘	
evening max el	3128 Apr 20 06:00	19° 8 16'14	19°03'09	evening max el	3129 Apr 03 10:26		18°25'53
retrograde	3128 Apr 28 22:19	23° 8 29'41	-, 00	retrograde	3129 Apr 10 21:30	5° 8 27'25	
evening set	3128 May 01 00:56	23° 8 15'45		evening set	3129 Apr 13 06:23	5° 8 06'11	
inferior conj	3128 May 09 05:35	19° 8 01'57	1°10'21	inferior conj	3129 Apr 20 15:38	0° 8 33'01	2°29'47
minimum elong	3128 May 09 08:15	18° 8 57'21	1°09'27	minimum elong	3129 Apr 20 19:26	0° 8 25'17	
min. Earth dist.	3128 May 12 06:35	16° 8 56'13	0.56618 AU	Č	3129 Apr 21 07:49	30° Ŗ ♈	
desc. node	3128 May 13 08:50	16° 8 13'46		min. Earth dist.	3129 Apr 24 02:14	27° Y 46'43	0.58534 AU
morning rise	3128 May 17 12:26	14° 8 04'07		morning rise	3129 Apr 28 05:30	25° Ƴ 03'39	
direct	3128 May 22 14:56	13° 8 02'49		desc. node	3129 Apr 30 05:51	24°Υ10'45	
morning max el	3128 Jun 05 21:39	20° 8 24'08	25°42'05	direct	3129 May 04 06:47	23° Y 27'50	
C	3128 Jun 14 03:22	0° I I			3129 May 17 10:14	0°B	
	3128 Jul 01 13:38	0ಂತಾ		morning max el	3129 May 18 16:13	1° 8 10'55	26°58'34
asc. node	3128 Jul 02 18:30	2° © 30'03		Ü	3129 Jun 08 05:53	0° I I	
morning set	3128 Jul 03 09:10	3°5647'12		morning set	3129 Jun 17 18:51	18° Ⅱ 33'48	
C				asc. node	3129 Jun 19 15:32	22° Ⅲ 30'48	
superior conj	3128 Jul 10 08:12	18° © 54'15	1°12'13		3129 Jun 23 02:11	0ಂತಾ	
minimum elong	3128 Jul 10 05:51	18° 5 41'19					
max. Earth dist.	3128 Jul 11 06:00	20°953'43	1.32432 AU	superior conj	3129 Jun 24 19:59	3°950'12	0°52'15
	3128 Jul 15 11:05	0°N		minimum elong	3129 Jun 24 17:58	3°539'01	0°51'52
evening rise	3128 Jul 17 09:10	4° Ω 01'48		max. Earth dist.	3129 Jun 24 17:31	3° 9 36'34	1.32105 AU
8	3128 Jul 31 09:27	0° m)		evening rise	3129 Jul 01 16:44	18°9345'10	
desc. node	3128 Aug 09 08:07	13° m 08'45			3129 Jul 07 06:05	$0^{\circ}\Omega$	
evening max el	3128 Aug 18 03:21	23° m 10'17	27°15'14		3129 Jul 26 10:09	0° mp	
<i>8</i>	3128 Aug 28 21:31	0∘ <u>⊽</u>		desc. node	3129 Jul 27 05:09	0° m 55'07	
retrograde	3128 Aug 31 23:17	0° £ 24'48		evening max el	3129 Jul 31 04:50	-•	26°31'17
8	3128 Sep 03 23:09	30°R, M⊅		retrograde	3129 Aug 14 04:09	12° m) 17'11	
evening set	3128 Sep 08 03:06	28° m 02'45		evening set	3129 Aug 20 20:44	10° m/24'38	
min. Earth dist.	3128 Sep 11 17:36		0.61848 AU	min. Earth dist.	3129 Aug 24 18:19	7° m 48'58	0.59799 AU
inferior conj	3128 Sep 14 18:31	22° m 30'34		inferior conj	3129 Aug 28 01:10	5° m 13'09	
minimum elong	3128 Sep 15 00:12	22° m 17'40		minimum elong	3129 Aug 28 05:36	5° m 04'20	4°45'52
morning rise	3128 Sep 21 22:59	17° m) 31'31		morning rise	3129 Sep 04 16:35	0° m 36'19	
direct	3128 Sep 24 08:21	17° m) 07'04		direct	3129 Sep 07 02:18	0° m 15'23	
asc. node	3128 Sep 28 17:41	18° m 32'26		morning max el	3129 Sep 14 17:20	3° m 58'00	18°15'51
morning max el	3128 Oct 01 06:27	20° m/36'21	17°54'18	asc. node	3129 Sep 15 14:44	4° m 52'14	
	3128 Oct 08 07:10	0∘ <u>⊽</u>		morning set	3129 Sep 30 14:58	29° m 14'53	
morning set	3128 Oct 17 03:44	15° ≏ 31'28		. <i>G</i>	3129 Oct 01 00:29	$0 \circ \overline{\mathbf{v}}$	
C	3128 Oct 25 05:29	0°M					
				superior conj	3129 Oct 09 23:20	16° ≏ 45'12	1°22'59
superior conj	3128 Oct 27 20:07	4°M32'27	0°56'29	minimum elong	3129 Oct 10 03:09	17° ≏ 02'37	1°22'36
minimum elong	3128 Oct 28 00:22	4°M50'48	0°55'55	C	3129 Oct 17 11:42	0°M	
max. Earth dist.	3128 Nov 04 05:18	16°M56'56	1.42822 AU	max. Earth dist.	3129 Oct 17 13:29	0°ML07'35	1.40953 AU
desc. node	3128 Nov 05 07:25	18°M43'31		evening rise	3129 Oct 22 08:25	8° M 07'04	
evening rise	3128 Nov 11 01:37	27°M55'29		desc. node	3129 Oct 23 04:26	9°M28'36	
Č	3128 Nov 12 09:28	0° ⊼			3129 Nov 05 11:59	0° ⊼ ¹	
	3128 Dec 02 19:24	ರ°0		evening max el	3129 Nov 25 12:32	25° х 52'46	23°12'04
evening max el	3128 Dec 12 20:58	12° る 17'59	21°52'58	č	3129 Nov 30 08:38	0°ರ	
retrograde	3128 Dec 22 02:20	17° る 47'25		retrograde	3129 Dec 05 20:45	2° ろ 00'28	
asc. node	3128 Dec 25 16:55	16° පි 36'51		evening set	3129 Dec 10 18:13	29° ₹ 59'34	
evening set	3128 Dec 26 11:26	16° る 02'49			3129 Dec 10 18:00	30°₽ ⋌	
inferior conj	3128 Dec 31 19:46	9° ප් 44'17	1°57'51	asc. node	3129 Dec 12 13:57	28° ₹ 11'52	
minimum elong	3128 Dec 31 17:29	9° ප 52'12	1°57'03	inferior conj	3129 Dec 16 03:26	23° ∡ ¹35'53	1°11'29
min. Earth dist.	3128 Dec 31 21:31	9° ප 38'12	0.67866 AU	minimum elong	3129 Dec 16 01:51	23° ∡ ¹41'19	1°10'51
morning rise	3129 Jan 05 23:24	3° ⋜ 32'40		min. Earth dist.	3129 Dec 15 18:19	24° ₹ 07'17	0.67907 AU
direct	3129 Jan 10 20:51	1° る 27'42		morning rise	3129 Dec 21 09:25	17° ∡ °27'48	
morning max el	3129 Jan 20 17:10	7°る17'20	22°44'55	direct	3129 Dec 25 16:28	15° ∡ ¹45'39	
desc. node	3129 Feb 01 06:38	21° る 26'28		morning max el	3130 Jan 03 08:03	20° х 47′56	21°20'45
	3129 Feb 07 07:45	0°≈		-	3130 Jan 11 01:31	8°0	
morning set	3129 Feb 23 22:12	25° ≈ 45'14		desc. node	3130 Jan 19 03:40	11° る 17'37	
-	3129 Feb 26 11:26	0°) €			3130 Jan 31 13:55	0° ≈	
max. Earth dist.	3129 Feb 28 15:12	3°) 39′26	1.40136 AU	morning set	3130 Feb 03 13:01	4°≈38'26	
				max. Earth dist.	3130 Feb 10 16:00	16° ≈ 06'43	1.42181 AU
superior conj	3129 Mar 08 09:41	17°) 22′08	-1°55'57				
minimum elong	3129 Mar 08 13:41	17°) 40′18		superior conj	3130 Feb 18 01:40	28° ≈ 34'07	-2°06'10
3	3129 Mar 15 04:35	$0^{\circ}\mathbf{\Upsilon}$		minimum elong	3130 Feb 18 02:40	28° ≈ 38'26	2°06'09
evening rise	3129 Mar 18 06:03	5° Ƴ 48'43		Į.	3130 Feb 18 21:33	0°) €	
asc. node	3129 Mar 23 16:15	15° Y 56'42		evening rise	3130 Mar 01 06:53	18°) 31′06	
				-			

Second 319 Mar 10 1516		3130 Mar 07 16:30	0°Υ			3131 Mar 03 20:28	0° Υ	
covering and cittergrade 313 Mar 17 2016 19"Polity 19" 19" 19" 19" 19" 19" 19" 19" 19" 19"	asc node		• •		retrograde			
Personne 130 Mar 24 140				18°08'35	•			
Seminger Simple	C			10 00 55	evening set			
Inferior	•				inferior coni		** -	3°37'24
minimar ellow 310 Apr 09 030 07 09 06 07 07 00 00 00 00 00	-			3°16'56	,			
nin. Earth dath. 313 Apr. 96 Apr. 11 9°/4072 06096 AU morning free 3131 Arr 23 01.57 P9°/41231 corner of morning free 3131 Arr 10 23.53 19°/41291 27°/45500 60°/4031 60°/4031 70°/45500 60°/4031 60°/4031 70°/45500 70°/4551	•				Č			
December 1310 Apr 10 130		-						0.02774710
direct 3130 Apr 1 (2) 034 1 (2) 034 1 (2) 034 1 (2) 14 (2)		-		0.00070710	-			
	•							
morning max el 313 Agr 17 16.55 12.247 15.43 274.225 morning max el 313 Agr 17 19.03 0.096 morning set 313 Agr 17 19.03 0.096 1.096 0.096		-				1		27048157
May 1 11-95 0*P		-		270/2125	morning max ci	-		27 40 37
monting set 3130 Jun 02 0.055 317045 max. Earth dist. 3131 May 17 0.113 17°E2079 3.265 AU asc node 3130 Jun 06 1233 12°H 3759 max. Earth dist. 3130 Jun 06 1233 12°H 3759 max. Earth dist. 3130 Jun 06 0.045 12°H 3759 max. Earth dist. 3130 Jun 06 0.045 12°H 3759 max. Earth dist. 3130 Jun 06 0.045 12°H 3759 max. Earth dist. 3130 Jun 07 0.0455 18°H 323 0°2837 minimum elong 3131 May 24 15.47 3°H 2004 0°0246 minimum elong 3130 Jun 14 11:12 0°92 behind sam begin 3131 May 24 15.47 3°H 2004 0°0246 minimum elong 3130 Jun 16 0.052 3°H 37537 behind sam begin 3131 May 24 15.47 3°H 2004 0°0246 minimum elong 3130 Jun 16 0.052 3°H 37537 behind sam begin 3131 May 24 15.47 3°H 2004 0°0246 minimum elong 3130 Jun 16 0.052 3°H 37537 evening rise 3130 Jun 16 0.052 3°H 37537 evening rise 3130 Jun 16 0.052 3°H 3750 3	morning max ci	-		21 42 23		-		
morning set 3130 Jun 02 00:55 3*ID0*145 max. Earth dist. 3130 Jun 02 00:455 13*ID0*16 02:34 12*ID0*15* 13*ID0*16 03:245 13*ID0*16 04:455		-					_	
Section Sec		-			Č	•	_	1 22///5 AII
max. Earth dist. 3130 Jun 98 94.45 16° H1 16° H1 132180 AU asc. node 3131 May 24 15.54 37 12074 070248 minimum elong 3130 Jun 90 97.99 18° H2 1237 minimum elong 3131 May 24 15.54 37° H2 700248	•				max. Earth dist.	•	_	1.32003 AU
superior conj 3130 Jun 09 07.09 18°H21'23 0°28'33 superior conj 3131 May 24 15.55 3°H20'49 0°02'48 minimum elong 3130 Jun 16 11:12 0°22 behind sum begm 3131 May 24 15.57 3°H20'40 0°02'48 evening rias 3130 Jun 10 06:03 0°24 behind sum begm 3131 May 24 15.55 3°H20'40 0°02'48 evening max el 3130 Jun 10 06:03 0°24 evening max el 3131 Jun 24 12:45 28°H47'59 dess. node 3130 Jun 10 02:12 1°64'14'8 28°H734 evening max el 3131 Jun 28 07:18 0°25 evening sta 3130 Aug 10 15:03 22°400'16 evening max el 3131 Jun 30 23:10 1°12'14'14 ninic Earth dist. 3130 Aug 10 15:03 12°42'16'16' 5°0525 3131 Jul 12:10 3°34'20'22 direct 3130 Aug 20 13:33 1°12'24'11' 1'24'11' 1'24'11' morning max el 3130 Aug 20 13:23 1'24'10' 1'24'11' 1'24'11' minimum elong 3130 Aug 20 13:23 1'24'12' 1'24'12' 1'24'11' 1'24'11'				1 22100 ATT	1	•		
minimum elong	max. Earth dist.	3130 Jun 08 04:45	16°Щ16′40	1.32180 AU	asc. node	3131 May 24 09:35	2°Щ46′31	
minimum elong	avmariar aani	2120 Jun 00 07:00	100Π41!22	0020152	avmariar agni	2121 May 24 15:55	20П20140	0002140
evening rise 3130 Jun 14 1112 0°% behind sum beding 3131 May 24 10:37 372						•		
cvening rise 3130 Jun 16 03:26 3°83837 behind sun end 3131 May 24 20:56 3°H4759	minimum elong			0°28'37		•		0°02'46
Cevening max el 313 olum 30 60.00 0°L Cevening rise 3131 May 31 51.55 Se T.25 Cevening max el 3130 10 12 23:41 16°2 17°4 16°5 17°4 16°5 17°4 16°5 17°4 16°5 17°4 16°5 17°4 16°5 17°4 16°5 17°4 16°5 17°4 16°5 18°4					•	•		
Perening max el 3130 Jul 12 23:12 16 Al 1938 25°1734 20°1734 20°1734 21'24'5 20°2741'14 23°44'53 23	evening rise					•		
Second S					evening rise	•		
Petrograde 3130 Jul 26 22:4 23°\$\tau20016 3130 Aug 01 1503 22°\tau2016 32°\tau2016 3130 Aug 01 1503 22°\tau2016 32°\tau2016 3130 Aug 01 1503 32°\tau2016 32°\tau2016 330 Aug 01 1501 32°\tau2016 33°\tau2016 33°	•			25°17'34				
Permin Sart 3130 Aug 01 15.05 22°Q.0616 desc. node 3131 Jun 30 23:10 31°Q.4114 31°Q.0175 3130 Aug 09 13:30 17°Q.1657 50°S25 3131 Jun 12 10:40 33°Q.0175 31°Q.0175 31°Q					evening max el			23°44'53
minimum clong minimum clo	•							
Minimum clong 3130 Aug 90 13.30 19°A 10°A 10°A 10°A 10°A 10°A 10°A 10°A 10	•	-	22° Ω 06′16					
minimum elong 3130 Aug 9 13:33 17°\(\)\(\)\(16\) 5°\(05\)\(25\) moming rise 3131 Jul 18 20:28 29°\(25\)\(67\)\(14\)\(15	min. Earth dist.	3130 Aug 06 11:05	19° Ω 23'58	0.57779 AU	retrograde	3131 Jul 08 05:16		
moming rise 3130 Aug 17 14:28 13° Ω0227 min. Earth dist. 313 Jul 18 23:02 29°956112 0.56087 AU direct direct 3130 Aug 20 0:228 12° Ω4300 inferior conj 3131 Jul 20 23:32 28°93455 -4°4011 morning max el 3130 Sep 02 11:46 22° Ω1620 morning rise 3131 Jul 29 14:56 24°93826 -4°517 asc. node 3130 Sep 07 09:03 0° Ψ morning rise 3131 Aug 10 09:31 24°93826 -4°931826 morning set 3130 Sep 14 12:16 13° № 2718 morning set 3131 Aug 11 3:00 0° Q.0 -4°90183 19°0210 -4°90183 19°0210 -4°90183 19°0210 -4°90183 19°0210 -4°90183 19°0210 -4°9018 -4°9183 -4	inferior conj	3130 Aug 09 13:10	17° Ω 16'57	-5°05'25	evening set	3131 Jul 12 10:40	3° Ω 01′09	
direct 3130 Aug 20 03:28 12° Ω43'00 inferior conj 3131 Jul 21 04:54 28° 234'55 4°46'01 morning max el 3130 Aug 28 20:29 16° Ω4'931 18°58'11 minimum elong 3131 Jul 20 23:32 28° 234'305 4°45'17 asc. node 3130 Sep 07 19:03 0° № direct 3131 Aug 10 19:31 24°25'18'5 0°021'16' 23° 21'16'	minimum elong	3130 Aug 09 13:33	17° Ω 16′16	5°05'25		3131 Jul 18 20:28	30° ₹ 5	
morning max el 3130 Aug 28 20.29 16% At 934 18°58'11 minimum elong 3131 Jul 20 23:32 28°5943'05 4*45'17 asc. node 3130 Sep 07 09.03 0°Th direct 3131 Aug 01 09:31 24°2618'59 4*26'18'5	morning rise	3130 Aug 17 14:28	13° Ω 02'27		min. Earth dist.	3131 Jul 18 23:02	29° © 56'12	0.56087 AU
Signature Si	direct	3130 Aug 20 03:28	12° Ω 43′00		inferior conj		28° © 34'55	-4°46'01
morning set 3130 Sep 07 09.03 0°	morning max el	3130 Aug 28 20:29	16° Ω 49'34	18°58'11	minimum elong	3131 Jul 20 23:32	28° © 43'05	4°45'17
morning set superior conj superior conj minimum elong minimum elong minimum elong max. Earth dist. superior conj minimum elong	asc. node	3130 Sep 02 11:46	22° Ω 16′20		morning rise	3131 Jul 29 14:56	24° © 38'26	
superior conj 3130 Sep 22 21:47 29°№ 4331 1°38'31 asc. node 3131 Aug 12 13:06 10°£0 110°£30'14 minimum elong 3130 Sep 23 00:01 0°£05'08 1°38'23 morning set 3131 Aug 29 16:26 27°£05'948 3130 Sep 22 22:56 0°£0 max. Earth dist. 3130 Sep 29 17:59 12°£36'10 1.38891 AU evening rise 3130 Oct 30 14:47 19°£23'31 superior conj 3130 Oct 09 23:37 0°№ max. Earth dist. 3130 Oct 10 01:28 0°™0726 max. Earth dist. 3130 Oct 10 01:28 0°™0726 max. Earth dist. 3130 Nov 10 01:28 0°™0726 revening max el 3130 Nov 19 11:18 16°₹11'16 asc. node 3130 Nov 29 10:58 8°₹46'15 min. Earth dist. 3130 Nov 29 10:58 8°₹46'15 minimum elong 3130 Nov 29 10:58 8°₹46'15 minimum elong 3130 Nov 30 09:53 7°₹29'47 0°19'36 minimum elong 3130 Nov 30 09:53 7°₹29'47 0°19'36 morning rise 3130 Nov 29 14:20 0°₹06'59 morning max el 3130 Nov 19 11:20 0°₹06'59 morning max el 3130 Nov 30 09:54 0°₹27'31 0°19'23 morning max el 3130 Nov 30 09:42 0°₹26'56 1.43836 AU morning max el 3130 Nov 30 09:54 0°₹27'31 0°19'23 morning max el 3130 Nov 30 09:54 0°₹27'31 0°19'36 morning max el 3130 Nov 30 09:54 0°₹27'31 0°19'36 morning max el 3130 Nov 30 09:54 12°£26'47 morning max el 3130 Dec 09 14:20 0°₹06'59 minimum elong 3130 Nov 30 09:54 0°₹27'31 0°19'36 morning max el 3130 Dec 09 14:20 0°₹06'59 minimum elong 3131 Jan 13 09:48 12°€36'44 morning max el 3131 Jan 24 00:56 29°€328'36 1.43836 AU morning max el 3131 Jan 24 00:56 29°€328'36 1.43836 AU morning max el 3131 Jan 29 16:12 8°≈36'06 2°01'08 morning max el 3131 Jan 29 16:12 8°≈36'06 2°01'08 morning max el 3131 Feb 11 18:49 0°°₹6 evening fise 3131 Jan 29 16:12 8°≈36'06 2°01'08 morning morning max el 3131 Feb 11 18:49 0°°₹6 evening fise 3131 Jan 29 16:12 8°≈36'06 2°01'08 morning max el 3131 Feb 11 14:49 0°°₹6 evening fise 3131 Jan 29 16:12 8°≈36'06 2°01'08 morning max el 3131 Feb 11 14:49 0°₹63'14 2°00'55 desc. node 3131 Jan 29 16:12 8°≈36'06 2°01'08 morning fise 3131 Jan 29 16:12 8°≈36'06 2°01'08 morning fise 3131 Jan 29 16:12 8°≈36'06 2°01'08 morni		3130 Sep 07 09:03	O° Mp		direct	3131 Aug 01 09:31	24° © 18'59	
superior conj minimum elong 3130 Sep 22 21:47 3130 Sep 23 00:01 29° №5431 1°38′31 asc. node 3131 Aug 20 08:48 3131 Aug 20 16:26 10° №30′14	morning set	3130 Sep 14 12:16	13° m 27'18		morning max el	3131 Aug 11 13:07	29° © 01'33	20°02'10
minimum elong 3130 Sep 23 00.01 0°♣05′08 1°38′23 moming set 3131 Aug 29 16.26 27°♣05′948 signar. Earth dist. 3130 Sep 29 17.59 12°♣36′10 1.38891 AU sevening rise 3130 Oct 03 14.47 19°♣023′43 superior conj 3131 Sep 06 10:18 13°₱45′37 1°44′40 minimum elong 3130 Oct 10 01:28 0°₱L minimum elong 3131 Sep 06 10:45 13°₱45′37 1°44′40 max. Earth dist. 3130 Oct 10 01:28 0°₱L minimum elong 3131 Sep 11 23:20 24°₱35′16 1.36881 AU 3130 Oct 30 17:11 0°♣ 3130 Nov 08 01:31 9°♣31′38 24°31′22 evening rise 3131 Sep 14 20:57 0°♣ 1°244′06 desc. node 3130 Nov 19 11:18 16°♣711′16 desc. node 3130 Nov 19 11:18 16°♣711′16 desc. node 3130 Nov 29 10:58 8°♣46′15 evening max el 3130 Nov 30 09:53 7°♣29′47 0°19′36 retrograde 3131 Nov 02 21:15 0°♠715′19 minimum elong 3130 Nov 30 09:53 7°♣29′47 0°19′36 retrograde 3131 Nov 04 20:44 30°♠11 evening rise 3130 Dec 09 14:20 0°♣06′59 mini Earth dist. 3131 Nov 14 14:18 21°₱L20′16 0°36′15 desc. node 3131 Jan 05 00:53 0°♣06′59 minimum elong 3131 Nov 14 14:18 21°₱L20′16 0°36′15 desc. node 3131 Jan 05 00:53 0°♣06′59 minimum elong 3131 Nov 14 14:18 21°₱L20′16 0°36′15 desc. node 3131 Jan 29 16:12 8°೩36′06 29°₹28'36 1.43836 AU direct 3131 Nov 20 06:23 15°₱L20′30 14°₱L10′11 moming set 3131 Jan 29 16:12 8°೩36′06 20°10′8 moming max el 3131 Dec 23 11:44 21°₱L20′16 0°♣06′5 mominimum elong 3131 Nov 14 14:18 21°₱L						3131 Aug 12 13:06	$0^{\circ}\Omega$	
max. Earth dist. 3130 Sep 22 22:56 0° 12° 12° 12° 13° 13° 14° 13° 14° 14° 12° 14° 14° 14° 14° 14° 14° 14° 14° 14° 14	superior conj	3130 Sep 22 21:47	29° m 54'31	1°38'31	asc. node	3131 Aug 20 08:48	10° Ω 30′14	
max. Earth dist. 3130 Sep 29 17:59	minimum elong	3130 Sep 23 00:01	0° ჲ 05'08	1°38'23	morning set	3131 Aug 29 16:26	27° Ω 59'48	
Superior conj 3131 Sep 06 10:18 13° m/45'37 1°44'40		3130 Sep 22 22:56	0∘ ত			3131 Aug 30 16:03	o°mp	
Superior conj 3131 Sep 06 10:18 13° m/45'37 1°44'40	max. Earth dist.	3130 Sep 29 17:59	12° ≏ 36'10	1.38891 AU		•		
desc. node 3130 Oct 10 01.28 0° ll. 0 0 ll. 0 0 ll. 28 0° ll. 23:20 0 ll. 23:20 24° ll. 24:20 24° ll. 2		3130 Oct 03 14:47	19° £ 23'43		superior conj	3131 Sep 06 10:18	13° m 45'37	1°44'40
evening max el 3130 Oct 10 01:28 0° 10:1726 max. Earth dist. 3131 Sep 11 23:20 24° 10:35°16 1.36881 AU 3130 Oct 30 17:11 0° 17 0° 17 0° 18 1313 Sep 14 20:57 0° 18 1313 Sep 14 20:57 0° 18 1313 Sep 13 13 Sep 14 20:57 0° 18 1313 Sep 13 13 Sep 14 20:57 0° 18 1313 Sep 13 13 Sep 14 20:57 0° 18 13 Sep 14 20:57 0° 18 13 Sep 15 19:20 1° 18 14 20:57 0° 18 14 14 14 15 14 14 18 14 14 18 18 18 18 18 18 18 18 18 18 18 18 18	Č		0°M					
evening max el 3130 Oct 30 17:11 0°\$\frac{\text{\$\sigma\$}}{\text{\$\sigma\$}}\$ 24°31'22 evening rise 3131 Sep 14 20:57 0°\$\frac{\text{\$\sigma\$}}{\text{\$\sigma\$}}\$ 11'16 desc. node 3131 Sep 26 22:30 20°\$\frac{\text{\$\sigma\$}}{\text{\$\sigma\$}}\$ 25°43'30 evening set 3130 Nov 24 22:28 13°\$\frac{\text{\$\sigma\$}}{\text{\$\sigma\$}}\$ 8°\$\frac{\text{\$\sigma\$}}{\text{\$\sigma\$}}\$ 130 Nov 29 10:58 8°\$\frac{\text{\$\sigma\$}}{\text{\$\sigma\$}}\$ 130 Nov 29 10:58 8°\$\frac{\text{\$\sigma\$}}{\text{\$\sigma\$}}\$ 130 Nov 29 10:58 8°\$\frac{\text{\$\sigma\$}}{\text{\$\sigma\$}}\$ 1310 Oct 30 2:29 0°\$\frac{\text{\$\sigma\$}}{\text{\$\sigma\$}}\$ 25°43'43 min. Earth dist. 3130 Nov 29 14:08 8°\$\frac{\text{\$\sigma\$}}{\text{\$\sigma\$}}\$ 1310 Oct 31 19:39 0°\$\frac{\text{\$\sigma\$}}{\text{\$\sigma\$}}\$ 0°\$\frac{\text{\$\sigma\$}}{\text{\$\sigma\$}}\$ 1310 Nov 30 09:53 7°\$\frac{\text{\$\sigma\$}}{\text{\$\sigma\$}}\$ 19'23 evening max el 3131 Nov 04 20:44 30°\$\text{\$\sigma\$}\$ 10°\$\text{\$\sigma\$}\$ 10°\$	desc. node				_			
evening max el 3130 Nov 08 01:31 9°求31'38 24°31'22 evening rise 3131 Sep 15 19:20 1°至42'06 retrograde 3130 Nov 19 11:18 16°求11'16 desc. node 3131 Sep 26 22:30 20°至35'30 evening set 3130 Nov 24 22:28 13°₹54'18 3131 Oct 21 13:46 23°ML 13'07 25°43'43 min. Earth dist. 3130 Nov 29 10:58 8°₹46'15 evening max el 3131 Oct 21 13:46 23°ML 13'07 25°43'43 min. Earth dist. 3130 Nov 29 14:08 8°₹35'44 0.67604 AU inferior conj 3130 Nov 30 09:53 7°₹29'47 0°19'36 retrograde 3131 Nov 02 21:15 0°₹15'19 minimum elong 3130 Nov 30 09:54 7°₹31'23 0°19'23 3131 Nov 04 20:44 30°RM 40'Evening rise 3130 Dec 05 20:23 1°₹27'31 evening set 3131 Nov 04 20:44 30°RM 40'Evening max el 3130 Dec 17 06:26 4°₹29'31 20°07'30 inferior conj 3131 Nov 14 13:20 21°ML23'19 -0°36'39 3131 Jan 05 00:53 0°₹ minimum elong 3131 Jan 06 00:41 1°₹29'48 asc. node 3131 Jan 13 09:48 12°₹46'47 morning set 3131 Jan 24 00:56 29°₹28'36 1.43836 AU direct 3131 Nov 20 06:23 15°ML29'30 evening max el 3131 Jan 24 08:47 0°≈ morning set 3131 Dec 09 13:45 0°₹ superior conj 3131 Feb 11 14:09 0°₹23'44 max. Earth dist. 3132 Jan 06 16:37 13°₹31'04 1.44884 AU asc. node 3131 Feb 25 10:17 23°₹09'27						•	-	
retrograde	evening max el			24°31'22	evening rise	-		
evening set 3130 Nov 24 22:28	•				_	-		
asc. node 3130 Nov 29 10:58 8° ₹46'15 min. Earth dist. 3130 Nov 29 14:08 8° ₹35'44 0.67604 AU inferior conj 3130 Nov 30 09:53 7° ₹29'47 0° 19'36 retrograde 3131 Nov 02 21:15 0° ₹15'19 minimum elong 3130 Nov 30 09:24 7° ₹31'23 0°19'23 evening set 3131 Nov 04 20:44 30° ₹ № morning rise 3130 Dec 05 20:23 1° ₹27'31 evening set 3131 Nov 08 22:32 27° № 44'16 direct 3130 Dec 17 06:26 4° ₹29'31 20° 07'30 minimum elong 3131 Jan 05 00:53 0° ₹ morning set 3131 Jan 05 00:41 1° ₹29'48 morning set 3131 Jan 13 09:48 12° ₹46'47 morning set 3131 Jan 24 00:56 29° ₹28'36 1.43836 AU morning max el 3131 Dec 23 13:15 3131 Nov 23 13:00 14° № 27'10 14° № 27'10 14° № 28'46'15 morning max el 3131 Dec 23 13:15 21° ₹24'12 morning max el 3131 Jan 29 16:12 8° ≈36'06 -2°01'08 morning rise 3131 Feb 11 14:09 0° ★23'44 max. Earth dist. 3131 Dec 29 01:36 0° ₹ 3131 Nov 14 14:18 21° № 23'11 00° ₹06'95 00° ₹ 0	•				***************************************	-		
min. Earth dist. 3130 Nov 29 14:08 8°ぶ35'44 0.67604 AU inferior conj 3130 Nov 30 09:53 7°ぶ29'47 0°19'36 retrograde 3131 Nov 02 21:15 0°ぶ15'19 minimum elong 3130 Nov 30 09:24 7°ぶ31'23 0°19'23 3131 Nov 04 20:44 30°κル morning rise 3130 Dec 05 20:23 1°ぶ27'31 evening set 3131 Nov 08 22:32 27°ル44'16 direct 3130 Dec 09 14:20 0°ぷ06'59 min. Earth dist. 3131 Nov 13 06:36 23°ル00'54 0.66957 AU morning max el 3131 Jan 05 00:53 0°♂ minimum elong 3131 Nov 14 14:18 21°ル20'16 0°36'15 desc. node 3131 Jan 06 00:41 1°♂29'48 asc. node 3131 Nov 16 08:00 19°ル11'11 morning set 3131 Jan 24 00:56 29°♂28'36 1.43836 AU direct 3131 Nov 20 06:23 15°ル29'30 morning max el 3131 Jan 24 08:47 0°≈ morning max el 3131 Nov 30 12:39 18°ル21'35 19°08'36 morning max el 3131 Jan 29 11:41 8°≈17'34 2°00'55 desc. node 3131 Dec 23 21:44 21°ぷ57'15 3131 Feb 11 08:39 0°光 max. Earth dist. 3131 Feb 11 14:09 0°%23'44 max. Earth dist. 3132 Jan 06 16:37 13°♂31'04 1.44884 AU asc. node 3131 Feb 25 10:17 23°%09'27	•				evening max el			25°43'43
inferior conj 3130 Nov 30 09:53 7° ₹29'47 0°19'36 retrograde 3131 Nov 02 21:15 0° ₹15'19 minimum elong 3130 Nov 30 09:24 7° ₹31'23 0°19'23 3131 Nov 04 20:44 30° ₹1 1 1 4:09 0° ₹27'31 evening set 3131 Nov 08 22:32 27° ₹48'4 16 min. Earth dist. 3131 Nov 08 22:32 27° ₹48'4 16 min. Earth dist. 3131 Nov 13 06:36 23° ₹1 00'54 0.66957 AU morning max el 3130 Dec 17 06:26 4° ₹29'31 20°07'30 inferior conj 3131 Nov 14 13:20 21° ₹23'19 -0°36'39 3131 Jan 05 00:53 0° ₹ minimum elong 3131 Nov 14 14:18 21° ₹20'16 0°36'15 desc. node 3131 Jan 13 09:48 12° ₹36'447 morning rise 3131 Nov 20 06:23 15° ₹29'30 max. Earth dist. 3131 Jan 24 00:56 29° ₹28'36 1.43836 AU direct 3131 Nov 20 06:23 15° ₹29'30 1313 Dec 09 13:45 0° ₹ morning max el 3131 Jan 24 08:47 0° ≈ morning max el 3131 Dec 23 13:15 21° ₹24'12 minimum elong 3131 Feb 11 08:39 0° ₹ morning rise 3131 Dec 29 01:36 0° ₹ superior conj 3131 Feb 11 14:09 0° ₹23'44 max. Earth dist. 3131 Feb 11 14:09 0° ₹23'44 max. Earth dist. 3131 Feb 25 10:17 23° ₹09'27				0 67604 ATT	2. Jimig max of			20 .5 .5
minimum elong morning rise 3130 Nov 30 09:24 7° ₹31'23 0°19'23 evening set 3131 Nov 04 20:44 30° RIL evening rise 3130 Dec 05 20:23 1° ₹27'31 evening set 3131 Nov 08 22:32 27° IL44'16 morning max el 3130 Dec 09 14:20 0° ₹06'59 min. Earth dist. 3131 Nov 13 06:36 23° IL00'54 0.66957 AU morning max el 3130 Dec 17 06:26 4° ₹29'31 20°07'30 inferior conj 3131 Nov 14 13:20 21° IL23'19 -0°36'39 minimum elong 3131 Jan 05 00:53 0° ₹ minimum elong 3131 Nov 14 14:18 21° IL20'16 0°36'15 asc. node 3131 Jan 13 09:48 12° ₹346'47 morning rise 3131 Nov 20 06:23 15° IL29'30 max. Earth dist. 3131 Jan 24 00:56 29° ₹28'36 1.43836 AU direct 3131 Nov 20 06:23 15° IL29'30 morning max el 3131 Jan 24 08:47 0° ≈ morning max el 3131 Nov 30 12:39 18° IL21'35 19° 08'36 3131 Dec 09 13:45 0° ₹ superior conj 3131 Jan 29 16:12 8° ≈36'06 -2° 01'08 morning set 3131 Dec 23 13:15 21° ₹24'12 minimum elong 3131 Feb 11 08:39 0° ₹ evening rise 3131 Feb 11 14:09 0° ₹23'44 max. Earth dist. 3132 Jan 06 16:37 13° ₹31'04 1.44884 AU asc. node 3131 Feb 25 10:17 23° ₹09'27					retrograde			
morning rise 3130 Dec 05 20:23 1°ズ27'31 evening set 3131 Nov 08 22:32 27°孤44'16 direct 3130 Dec 09 14:20 0°ズ06'59 min. Earth dist. 3131 Nov 13 06:36 23°孤00'54 0.66957 AU morning max el 3130 Dec 17 06:26 4°ズ29'31 20°07'30 inferior conj 3131 Nov 14 13:20 21°孤23'19 -0°36'39 minimum elong 3131 Jan 05 00:53 0°중 minimum elong 3131 Nov 14 14:18 21°孤20'16 0°36'15 desc. node 3131 Jan 13 09:48 12°중46'47 morning rise 3131 Nov 20 06:23 15°孤29'30 max. Earth dist. 3131 Jan 24 00:56 29°중28'36 1.43836 AU direct 3131 Nov 20 06:23 15°孤29'30 morning max el 3131 Jan 24 08:47 0°≈ morning max el 3131 Nov 30 12:39 18°孤21'35 19°08'36 3131 Dec 09 13:45 0°ズ superior conj 3131 Jan 29 16:12 8°≈36'06 -2°01'08 morning set 3131 Dec 23 13:15 21°ズ24'12 minimum elong 3131 Feb 11 08:39 0°升 max. Earth dist. 3131 Feb 11 14:09 0°升23'44 max. Earth dist. 3132 Jan 06 16:37 13°중31'04 1.44884 AU asc. node 3131 Feb 25 10:17 23°升09'27					retrograde			
morning max el 3130 Dec 09 14:20 0°水06'59 min. Earth dist. 3131 Nov 13 06:36 23°肌00'54 0.66957 AU morning max el 3130 Dec 17 06:26 4°水29'31 20°07'30 inferior conj 3131 Nov 14 13:20 21°肌23'19 -0°36'39 minimum elong 3131 Nov 14 14:18 21°肌20'16 0°36'15 desc. node 3131 Jan 06 00:41 1°云29'48 asc. node 3131 Nov 16 08:00 19°肌11'11 morning set 3131 Jan 13 09:48 12°云46'47 morning rise 3131 Nov 20 06:23 15°肌29'30 max. Earth dist. 3131 Jan 24 08:47 0°≈ morning max el 3131 Nov 30 12:39 18°肌21'35 19°08'36 3131 Dec 09 13:45 0°ҳ superior conj 3131 Jan 29 16:12 8°≈36'06 -2°01'08 morning set 3131 Dec 23 13:15 21°ҳ24'12 minimum elong 3131 Feb 11 08:39 0°升 max. Earth dist. 3131 Feb 11 14:09 0°升23'44 max. Earth dist. 3132 Jan 06 16:37 13°云31'04 1.44884 AU asc. node 3131 Feb 25 10:17 23°升09'27				0 1725	evening set			
morning max el 3130 Dec 17 06:26 4°ズ29'31 20°07'30 inferior conj 3131 Nov 14 13:20 21°IL23'19 -0°36'39 minimum elong 3131 Nov 14 14:18 21°IL20'16 0°36'15 desc. node 3131 Jan 05 00:53 0°풉 minimum elong 3131 Nov 14 14:18 21°IL20'16 0°36'15 desc. node 3131 Jan 13 09:48 12°云46'47 morning rise 3131 Nov 20 06:23 15°IL29'30 max. Earth dist. 3131 Jan 24 00:56 29°云28'36 1.43836 AU direct 3131 Nov 23 13:00 14°IL27'46 morning max el 3131 Nov 30 12:39 18°IL21'35 19°08'36 3131 Dec 09 13:45 0°ズ superior conj 3131 Jan 29 16:12 8°≈36'06 -2°01'08 morning set 3131 Dec 23 13:15 21°ズ24'12 minimum elong 3131 Feb 11 08:39 0°光 evening rise 3131 Feb 11 14:09 0°光23'44 max. Earth dist. 3132 Jan 06 16:37 13°云31'04 1.44884 AU asc. node 3131 Feb 25 10:17 23°光09'27	•				•			0.66057 AU
Minimum elong Minimum elo				20007120				
desc. node 3131 Jan 06 00:41 1°\(329\)'48 asc. node 3131 Nov 16 08:00 19°\(111\)'11 morning set 3131 Jan 13 09:48 12°\(346\)'47 morning rise 3131 Nov 20 06:23 15°\(1129\)'30 max. Earth dist. 3131 Jan 24 00:56 29°\(328\)'36 1.43836 AU direct 3131 Nov 23 13:00 14°\(112\)'35 19°\(08\)'3131 Dec 09 13:45 0°\(\sigma\) superior conj 3131 Jan 29 16:12 8°\(\inftigred{\times}\)36'\(06\) -2°\(01\)'08 morning set 3131 Dec 23 13:15 21°\(\sigma\)24'12 minimum elong 3131 Feb 11 08:39 0°\(\times\) evening rise 3131 Feb 11 14:09 0°\(\times\)23'\(44\) asc. node 3131 Feb 25 10:17 23°\(\times\)09'27	morning max er			20 07 30	3			
morning set 3131 Jan 13 09:48 12°₹346'47 morning rise 3131 Nov 20 06:23 15°™29'30 max. Earth dist. 3131 Jan 24 00:56 29°₹328'36 1.43836 AU direct 3131 Nov 23 13:00 14°™27'46 morning max el 3131 Nov 30 12:39 18°™21'35 19°08'36 3131 Dec 09 13:45 0°⊀ superior conj 3131 Jan 29 16:12 8°≈36'06 -2°01'08 morning set 3131 Dec 23 13:15 21°⊀24'12 minimum elong 3131 Jan 29 11:41 8°≈17'34 2°00'55 desc. node 3131 Dec 23 21:44 21°⊀57'15 3131 Feb 11 08:39 0°₭ max. Earth dist. 3132 Jan 06 16:37 13°₹31'04 1.44884 AU asc. node 3131 Feb 25 10:17 23°★09'27	dasa nada				•			0 30 13
max. Earth dist. 3131 Jan 24 00:56 29°								
3131 Jan 24 08:47 0°≈ morning max el 3131 Nov 30 12:39 18°M21'35 19°08'36 3131 Dec 09 13:45 0°♂	•			1 /2026 ATT	•			
Superior conj 3131 Jan 29 16:12 8°≈36'06 -2°01'08 morning set 3131 Dec 23 13:15 21° ₹24'12 minimum elong 3131 Jan 29 11:41 8°≈17'34 2°00'55 desc. node 3131 Dec 23 21:44 21° ₹57'15 3131 Dec 29 01:36 0° ₹ evening rise 3131 Feb 11 14:09 0° € 23'44 max. Earth dist. 3132 Jan 06 16:37 13° ₹31'04 1.44884 AU asc. node 3131 Feb 25 10:17 23° € 09'27	max. Earth dist.			1.43630 AU				10000127
superior conj 3131 Jan 29 16:12 8°≈36'06 -2°01'08 morning set 3131 Dec 23 13:15 21°♂24'12 minimum elong 3131 Jan 29 11:41 8°≈17'34 2°00'55 desc. node 3131 Dec 23 21:44 21°♂57'15 3131 Feb 11 08:39 0°升 3131 Feb 11 14:09 0°升23'44 max. Earth dist. 3132 Jan 06 16:37 13°♂31'04 1.44884 AU asc. node 3131 Feb 25 10:17 23°升09'27		3131 Jan 24 U8:4/	0 ∞		morning max et			19 08:30
minimum elong 3131 Jan 29 11:41 8°≈17'34 2°00'55 desc. node 3131 Dec 23 21:44 21°₹57'15 3131 Feb 11 08:39 0° ★ evening rise 3131 Feb 11 14:09 0° ★23'44 max. Earth dist. 3132 Jan 06 16:37 13°₹31'04 1.44884 AU asc. node 3131 Feb 25 10:17 23° ★09'27		2121 1 20 16 12	002000	2001100				
3131 Feb 11 08:39 0°★ 3131 Dec 29 01:36 0°ቼ evening rise 3131 Feb 11 14:09 0°ℋ23'44 max. Earth dist. 3132 Jan 06 16:37 13°♂31'04 1.44884 AU asc. node 3131 Feb 25 10:17 23°ℋ09'27	1 3				-			
evening rise 3131 Feb 11 14:09 0° ★23'44 max. Earth dist. 3132 Jan 06 16:37 13° ₹31'04 1.44884 AU asc. node 3131 Feb 25 10:17 23° ★09'27	minimum elong			2~00.55	desc. node			
asc. node 3131 Feb 25 10:17 23° ★ 09′27					pp. 18 - 19			1 44004 : **
	•				max. Earth dist.	3132 Jan 06 16:37	13° 6 31'04	1.44884 AU
evening max et 3131 Mar 01 09:07 27° # 56'12 18°10'32 superior conj 3132 Jan 09 06:14 17° * 534'24 -1°36'58				10016:22		0100 X	150-30	100 (170
	evening max el	3131 Mar 01 09:07	2/° \ 56'12	18~10/32	superior conj	3132 Jan 09 06:14	1/~634'24	-1~36'58

Fiancially Filend	oniena or wiercury	110111 3100 1	inough 3002 (O I), Astrodictist	AG 16-FCU-2023 14	+.∠1, pa	ige 10
minimum elong	3132 Jan 08 21:20	16° る 59'09	1°36'09	minimum elong	3132 Dec 18 01:10	25° ∡ '38'01	0°54'56
minimum ciong	3132 Jan 17 00:48	0°≈	1 300)	max. Earth dist.	3132 Dec 19 11:26	27° × 50'01	1.45212 AU
evening rise	3132 Jan 23 23:56	0 ~ 11° ≈ 21'05		max. Larm dist.	3132 Dec 19 11:20 3132 Dec 20 19:56	0°る	1. 4 3212 AO
evening rise	3132 Feb 04 11:07	0° ₩		evening rise	3133 Jan 03 10:24	21°る21'45	
asc. node	3132 Feb 12 07:19	10° ¥ 43′21		evening rise	3133 Jan 08 21:53	0°≈	
evening max el	3132 Feb 12 07:19	11°) 19'53	18°31'02	greatest brilliancy	3133 Jan 13 12:44	7°≈13'44	-0.8m
retrograde	3132 Feb 19 10:19	14°) 55'34	10 31 02	evening max el	3133 Jan 26 06:38	24°≈48'16	19°09'08
evening set	3132 Feb 22 12:43	14°) €01'54		asc. node	3133 Jan 29 04:22	27°≈18'56	17 07 00
inferior conj	3132 Feb 28 08:12	8° ¥ 29'14	3°37'41	retrograde	3133 Feb 02 05:59	28°≈46'32	
minimum elong	3132 Feb 28 07:21	8°) 31'44	3°37'38	evening set	3133 Feb 05 14:56	27°≈40'16	
min. Earth dist.	3132 Mar 01 10:29	6°) € 00'54	0.64611 AU	inferior conj	3133 Feb 11 04:31	21°≈51'16	3°22'59
morning rise	3132 Mar 05 01:25	2° € 19'42	0.04011710	minimum elong	3133 Feb 11 02:34	21°≈57'29	3°22'41
morning risc	3132 Mar 08 22:26	2)(1) 42 30°R≈		min. Earth dist.	3133 Feb 12 15:30	19°≈59'40	0.66042 AU
direct	3132 Mar 11 20:18	29°≈29'43		morning rise	3133 Feb 16 13:53	15°≈38'27	0.00042710
uncet	3132 Mar 14 21:56	0°)		direct	3133 Feb 22 23:33	13 ≈ 38 27 12° ≈ 49'20	
desc. node	3132 Mar 20 20:55	3° ¥ 20'54		desc. node	3133 Mar 07 17:58	20°≈22'35	
morning max el	3132 Mar 25 08:32	7° ∺ 21'31	27010153	morning max el	3133 Mar 07 17:38 3133 Mar 07 18:30	20°≈23'57	26°21'43
morning max ci	3132 Mai 23 08:32 3132 Apr 11 19:44	0° Υ	27 1933	morning max ci	3133 Mar 16 00:58	20 ≈ 23 37	20 21 43
		0° 8				0°Υ	
marning sat	3132 Apr 29 03:34	1° 8 05'31		morning set	3133 Apr 04 22:44	14° Υ 10'32	
morning set	3132 Apr 29 17:03	_	1 22507 AII	morning set	3133 Apr 12 20:46	21° Y 58'54	1.34963 AU
max. Earth dist.	3132 May 04 10:43	10.03001	1.33587 AU	max. Earth dist.	3133 Apr 16 22:24		1.34903 AU
	2122 M 07 20 22	1700 4010 5	0025112		3133 Apr 20 22:36	0°B	
superior conj	3132 May 07 20:22	17° 8 42'35			2122 4 21 10 11	100 40105	0052150
minimum elong	3132 May 07 21:39	17° 8 49'23	0°24'55	superior conj	3133 Apr 21 18:11	1°840'05	
asc. node	3132 May 10 06:38	22° 8 52'33		minimum elong	3133 Apr 21 21:00	1°854'29	0°53′18
	3132 May 13 14:43	0°II		asc. node	3133 Apr 27 03:42	12° 8 52'01	
evening rise	3132 May 15 02:24	3° Ⅱ 08'30		evening rise	3133 Apr 29 10:53	17° 8 38'31	
	3132 May 30 00:55	0.22 0.22	2222214		3133 May 05 16:45	0°II	20042120
evening max el	3132 Jun 05 04:20	7° © 15'40	22°08'44	evening max el	3133 May 18 05:17	18° Ⅱ 08'18	20°42'38
desc. node	3132 Jun 16 20:11	13°533'22		retrograde	3133 May 29 13:08	23° Ⅱ 39'47	
retrograde	3132 Jun 17 23:57	13°536'27		evening set	3133 May 31 15:00	23° Ⅱ 29'22	
evening set	3132 Jun 20 20:03	13°5518'34	0.55050.433	desc. node	3133 Jun 03 17:12	22° Ⅱ 38'31	1040100
min. Earth dist.	3132 Jun 29 09:52	9° © 37'43	0.55053 AU	inferior conj	3133 Jun 09 21:41	19° Ⅲ 31'48	
inferior conj	3132 Jun 30 04:02	9° © 12'12		minimum elong	3133 Jun 09 16:35	19° Ⅱ 39'06	1°46'39
minimum elong	3132 Jun 29 19:46	9° © 23'50	3°35'13	min. Earth dist.	3133 Jun 10 22:06	18° Ⅱ 56'49	0.54926 AU
morning rise	3132 Jul 08 21:16	5° © 20'53		morning rise	3133 Jun 18 17:36	15° Ⅱ 25'23	
direct	3132 Jul 11 23:24	4° © 59'37		direct	3133 Jun 22 08:47	14° Ⅱ 56'56	
morning max el	3132 Jul 23 18:10	10° © 29'28	21°26'25	morning max el	3133 Jul 05 13:30	21° Ⅱ 18′09	23°05'18
asc. node	3132 Aug 06 05:51	29° © 22'18			3133 Jul 13 00:45	0°9	
	3132 Aug 06 14:05	0 ° Ω		asc. node	3133 Jul 24 02:56	18° © 43'05	
morning set	3132 Aug 13 01:00	12° Ω 45'30		morning set	3133 Jul 28 12:05	27° © 39'04	
		_			3133 Jul 29 14:45	0 $^{\circ}$ Ω	
superior conj	3132 Aug 20 08:41	28° Ω 06'27					
minimum elong	3132 Aug 20 07:43	28° Ω 01′25	1°43'03	superior conj	3133 Aug 04 13:49	12° Ω 47'31	1°35'09
	3132 Aug 21 06:36	0° m		minimum elong	3133 Aug 04 11:54	12° Ω 37'18	1°34'59
max. Earth dist.	3132 Aug 24 10:41	~	1.35131 AU	max. Earth dist.	3133 Aug 07 06:55	18° £ 32'36	1.33760 AU
evening rise	3132 Aug 28 17:56	14° Mp 51'52		evening rise	3133 Aug 12 06:13	28° Ω 41'50	
	3132 Sep 06 03:48	0∘ ⊽			3133 Aug 12 22:04	0° m)	
desc. node	3132 Sep 12 19:32	10° ≏ 46'52			3133 Aug 30 07:19	0∘ ⊽	
	3132 Sep 26 18:34	0° M		desc. node	3133 Aug 30 16:34	0° ჲ 34'19	
evening max el	3132 Oct 03 02:06	6°M51'00	26°41'36	evening max el	3133 Sep 15 14:09	20° ≏ 16'46	27°17'37
retrograde	3132 Oct 16 02:01	14° M 05'51		retrograde	3133 Sep 29 01:13	27° ≏ 35'24	
evening set	3132 Oct 22 16:22	11°M25'17		evening set	3133 Oct 06 01:32	24° ≏ 53'15	
min. Earth dist.	3132 Oct 26 17:22		0.65964 AU	min. Earth dist.	3133 Oct 09 20:19	21° ≏ 21'14	
inferior conj	3132 Oct 28 11:49	5° ™ 12'22		inferior conj	3133 Oct 12 03:04	18° ≏ 52'52	
minimum elong	3132 Oct 28 14:26	5°M04'36	1°34'47	minimum elong	3133 Oct 12 07:20	18° ≏ 41'15	2°34'24
asc. node	3132 Nov 02 05:04	0°M21'40		morning rise	3133 Oct 18 14:15	13° ≏ 24'27	
	3132 Nov 02 17:11	30°₽ ₽		asc. node	3133 Oct 20 02:07	12° ≏ 55'40	
morning rise	3132 Nov 03 13:11	29° ≏ 29'47		direct	3133 Oct 21 04:46	12° ≏ 49'12	
direct	3132 Nov 06 10:33	28° ≏ 43'14		morning max el	3133 Oct 27 16:44	16° ≙ 16′15	17°59'19
	3132 Nov 10 06:09	0°M			3133 Nov 06 13:20	0° M	
morning max el	3132 Nov 13 00:57	2°M₁9′04	18°25'34	morning set	3133 Nov 14 04:25	12°M43'34	
	3132 Dec 01 22:09	0°⊀			3133 Nov 24 14:41	0° ∡ ¹	
morning set	3132 Dec 02 18:18	1° ∡ ¹20'58		desc. node	3133 Nov 26 15:50	3° ∡ 18'53	
desc. node	3132 Dec 09 18:47	12° ∡ ³34'46					
				superior conj	3133 Nov 27 19:04	5° ₹ 08'19	
superior conj	3132 Dec 18 08:08	26° ₹ 05'26	-0°55'49	minimum elong	3133 Nov 27 18:07	5° ₹ 04'34	0°07'37

habind our basin	2122 N 27 00-40	49.707110		4	3134 Oct 06 23:11	270 m 02146	
behind sun begin	3133 Nov 27 08:49	4° х ¹27'12 5° х ¹41'53		asc. node		27° Mp 03'46 0° <u>₽</u>	
behind sun end	3133 Nov 28 03:26	12° x '41'33	1.44803 AU		3134 Oct 11 06:47	0° ೭ 05'33	17°50'43
max. Earth dist.	3133 Dec 02 06:04 3133 Dec 13 15:30	12 x ・14 20 0°る	1.44603 AU	morning max el morning set	3134 Oct 11 09:02 3134 Oct 27 14:27	0 ≥ 05 33 25° ⊆ 15'04	17 30 43
avanina riaa	3133 Dec 13 13:30 3133 Dec 14 01:45	0° ろ 39'33		morning set	3134 Oct 27 14.27 3134 Oct 30 07:09	0°M	
evening rise	3133 Dec 14 01.43 3133 Dec 28 09:57	0 3 3933 22° る 25'01	-0.6m		3134 Oct 30 07.09	U IIG	
greatest brilliancy	3134 Jan 02 17:12	0°≈	-0.0111	aumorior comi	3134 Nov 08 05:54	15° M 22'26	0°35'58
evening max el	3134 Jan 09 11:29	0 ≈ 8°≈18'52	20°03'05	superior conj minimum elong	3134 Nov 08 09:16	15°MJ36'32	0°35'29
asc. node	3134 Jan 16 01:24	0 ≈10 32 12°≈41'38	20 03 03	desc. node	3134 Nov 08 09:10 3134 Nov 13 12:52	24°ML05'54	0 33 29
							1 42712 411
retrograde	3134 Jan 17 03:50	12°≈48'17		max. Earth dist.	3134 Nov 14 22:17	26°M21'03	1.43712 AU
evening set	3134 Jan 20 20:45	11°≈28'12	2056140		3134 Nov 17 04:57	0° ⋌ ¹	
inferior conj	3134 Jan 26 06:50	5°≈25'28	2°56'49	evening rise	3134 Nov 23 10:48	9° ∡ 747'44	
minimum elong	3134 Jan 26 04:21	5°≈33'49	2°56'14		3134 Dec 06 20:47	0°る	21010111
min. Earth dist.	3134 Jan 27 03:51	4°≈14'55	0.67063 AU	evening max el	3134 Dec 23 10:53	21°る50'48	21°10'11
	3134 Jan 30 15:49	30°₹⋜		retrograde	3135 Jan 01 01:33	26°る57'08	
morning rise	3134 Jan 31 11:44	29° る 11'47		asc. node	3135 Jan 02 22:25	26° る 37'54	
direct	3134 Feb 06 08:32	26° る 34'32		evening set	3135 Jan 05 04:16	25° る 21'52	
	3134 Feb 14 03:29	0° ≈		inferior conj	3135 Jan 10 12:46	19° ろ 08'22	
morning max el	3134 Feb 18 03:17	3° ≈ 36'50	25°03'37	minimum elong	3135 Jan 10 10:17	19° る 16'57	2°20'49
desc. node	3134 Feb 22 15:01	8° ≈ 33'36		min. Earth dist.	3135 Jan 10 21:14	18° る 39'10	0.67681 AU
	3134 Mar 10 07:30	0° ∀		morning rise	3135 Jan 15 16:07	12° る 55'37	
morning set	3134 Mar 26 07:26	26° ∺ 21'51		direct	3135 Jan 20 22:19	10° る 37'37	
	3134 Mar 28 07:44	0 ° Υ		morning max el	3135 Jan 31 11:49	16° පි 55'01	23°35'55
max. Earth dist.	3134 Mar 29 22:54	3° Y 00′12	1.36774 AU	desc. node	3135 Feb 09 12:03	27° る 33'59	
					3135 Feb 11 07:57	0° ≈	
superior conj	3134 Apr 05 06:26	15° Ƴ 05′10	-1°21'21		3135 Mar 03 08:36	0° ∀	
minimum elong	3134 Apr 05 10:32	15° Y 25′20	1°20'45	morning set	3135 Mar 07 18:59	7° ∺ 22'56	
	3134 Apr 12 16:53	0°8		max. Earth dist.	3135 Mar 11 18:00	14° 升 13′22	1.38884 AU
evening rise	3134 Apr 13 14:27	1° 8 48'38					
asc. node	3134 Apr 14 00:44	2° 8 40'14		superior conj	3135 Mar 19 05:21	27°) 48′14	-1°45'14
evening max el	3134 Apr 30 18:22	29° 8 40'39	19°33'49	minimum elong	3135 Mar 19 09:52	28°) €09'26	1°44'47
	3134 May 01 02:29	$\Pi^{\circ}0$			3135 Mar 20 09:20	0 ° Υ	
retrograde	3134 May 10 08:18	4° Ⅱ 19'16		evening rise	3135 Mar 28 10:24	15° Ƴ 31'39	
evening set	3134 May 12 08:18	4° Ⅱ 08'02		asc. node	3135 Mar 31 21:46	22° Ƴ 12'28	
inferior conj	3134 May 21 00:16	0° Ⅱ 03'52	0°10'11		3135 Apr 05 04:39	0°8	
minimum elong	3134 May 21 00:42	0° Ⅱ 03'09	0°10'01	evening max el	3135 Apr 13 18:08	11° 8 52'15	18°44'52
transit middle	3134 May 21 00:42	0° I I03'09	0°10'01	retrograde	3135 Apr 21 20:19	15° 8 49'30	
transit begin	3134 May 20 21:39	0°II08'00		evening set	3135 Apr 24 01:42	15° 8 32'43	
transit end	3134 May 21 03:45	29° 8 58'18		inferior conj	3135 May 01 21:53		1°48'05
	3134 May 21 02:41	30°R₩		minimum elong	3135 May 02 01:26	11° 8 04'34	1°47'00
desc. node	3134 May 21 14:13	29° 8 41'36		min. Earth dist.	3135 May 05 05:04	8° 8 45'43	0.57385 AU
min. Earth dist.	3134 May 23 12:15	28° 8 28'48	0.55766 AU	desc. node	3135 May 08 11:14	6° 8 42'13	
morning rise	3134 May 29 14:25	25° 8 26'20	0.00700110	morning rise	3135 May 09 22:00	5° 8 59'13	
direct	3134 Jun 03 03:01	24° 8 40'18		direct	3135 May 15 11:03	4° 8 43'54	
direct	3134 Jun 15 05:27	0°II		morning max el	3135 May 29 19:22	12° 8 15'20	26°17'52
morning max el	3134 Jun 17 03:50		24°47'34	morning max or	3135 Jun 12 15:23	0°II	20 17 32
morning max or	3134 Jul 06 18:09	0°©	21 17 31	morning set	3135 Jun 27 10:51	27° II 25'19	
asc. node	3134 Jul 10 24:00	8°524'03		asc. node	3135 Jun 27 21:03	28° Ⅱ 19'14	
morning set	3134 Jul 12 23:54	12°934'01		use. Houe	3135 Jun 28 15:58	0°9	
morning sec	3131 34 1 12 23.31	12 03.01			3133 34 11 2 0 13.30	0 O	
superior conj	3134 Jul 19 23:05	27°539'29	1°21'55	superior conj	3135 Jul 04 10:27	12°935'43	1°04'12
minimum elong	3134 Jul 19 20:44	27°526'45		minimum elong	3135 Jul 04 08:11	12°523'12	1°03'49
minimum clong	3134 Jul 21 00:54	0° Ω	1 21 30	max. Earth dist.	3135 Jul 04 00:11	13°937'23	1.32254 AU
max. Earth dist.	3134 Jul 21 11:29	0° Ω 57'21	1.32803 AU	evening rise	3135 Jul 11 09:09	27°936'27	1.32234 AU
evening rise	3134 Jul 27 04:18	12° Ω 59'48	1.32003 AC	evening rise	3135 Jul 12 12:49	0°Ω	
evening rise	3134 Aug 05 01:37	0° M)			3135 Jul 29 10:51	0° m)	
desc. node	•			desc. node		-	
acsc. Hour	3134 Aug 17 13:34	19° № 46'52 0° ჲ			3135 Aug 11 05:48	8° Mp 10'06	27°00'31
avaning may al	3134 Aug 25 18:44		27025125	evening max el	3135 Aug 11 05:48	15° Mp 40'29 22° Mp 52'45	21 00 31
evening max el	3134 Aug 29 00:16		27°25'25	retrograde	3135 Aug 25 03:12		
retrograde	3134 Sep 11 17:59	10° £ 34'01		evening set	3135 Sep 01 03:45	20° Mp 42'07	0.60007.417
evening set	3134 Sep 18 22:43	8° ₾ 01'18	0.62042 411	min. Earth dist.	3135 Sep 04 20:04	18° Mp 01'36	0.60997 AU
min. Earth dist.	3134 Sep 22 13:32	5° Ω 00'01	0.62943 AU	inferior conj	3135 Sep 08 00:14	15° m 18'42	
inferior conj	3134 Sep 25 08:17	2° £ 17'45		minimum elong	3135 Sep 08 05:41	15° Mp 06'59	4 23 02
minimum elong	3134 Sep 25 13:47	2° Ω 04'22	3 32 11	morning rise	3135 Sep 15 09:24	10° m 28'30	
	3134 Sep 27 19:16	30°R, Mp 37°M 0€144		direct	3135 Sep 17 18:38	10° Mp 05'43	
morning rise	3134 Oct 02 06:18	27° Mp 06'44		asc. node	3135 Sep 23 20:14	12° Mp 39'28	10000157
direct	3134 Oct 04 16:42	26° Mp 39'12		morning max el	3135 Sep 24 22:45	13° m 39'28	18°00'56

						0	
	3135 Oct 06 01:02	0∘ ⊽		asc. node	3136 Sep 09 17:16	29° Ω 28'41	
morning set	3135 Oct 10 18:02	8° ≏ 36'47			3136 Sep 10 03:25	0° m/y	
				morning set	3136 Sep 23 10:03	22° Mg 34'22	
superior conj	3135 Oct 20 19:28	26° ≏ 54'57	1°09'10		3136 Sep 27 06:23	0∘ ಹ	
minimum elong	3135 Oct 20 23:47	27° ≏ 13'59	1°08'39				
	3135 Oct 22 13:42	0°M		superior conj	3136 Oct 02 07:39	9° ≙ 34'30	1°30'50
max. Earth dist.	3135 Oct 28 10:09	9° ™ 57'35	1.42072 AU	minimum elong	3136 Oct 02 10:52	9° ≏ 49'27	1°30'34
desc. node	3135 Oct 31 09:52	14°M52'33		max. Earth dist.	3136 Oct 09 16:51	22° ≏ 52'00	1.40084 AU
evening rise	3135 Nov 03 06:07	19° ™ 27'20		evening rise	3136 Oct 13 22:48	0°11L06'20	
	3135 Nov 10 00:28	0° ∡ ¹			3136 Oct 13 21:17	0° M .	
	3135 Dec 01 09:35	6°0		desc. node	3136 Oct 17 06:54	5°M35'42	
evening max el	3135 Dec 06 04:58	5° る 23'59	22°26'18		3136 Nov 02 10:59	0° ∡ ¹	
retrograde	3135 Dec 15 21:28	11° ろ 09'31		evening max el	3136 Nov 17 19:06	19° ₹ '00'25	23°46'08
evening set	3135 Dec 20 11:44	9° ට 17'55		retrograde	3136 Nov 28 14:22	25° ₹ ¹22'42	
asc. node	3135 Dec 20 19:27	9° ට 01'31		evening set	3136 Dec 03 17:39	23° х 14'33	
inferior conj	3135 Dec 25 20:18	2° る 56'56	1°38'55	asc. node	3136 Dec 06 16:28	20° × 106'12	
minimum elong	3135 Dec 25 18:16	3° る 03'59	1°38'10	min. Earth dist.	3136 Dec 08 13:55	17°×736'41	0.67820 AU
min. Earth dist.	3135 Dec 25 17:20	3° る 07'11	0.67927 AU	inferior conj	3136 Dec 09 03:39	16° ₹ ⁷ 49'55	0°50'05
iiiii. Eartii uist.	3135 Dec 28 00:50	30°Ŗ ⋌ ¹	0.07927 AU	minimum elong	3136 Dec 09 03:39 3136 Dec 09 02:30	16° × 49 53	0°49'36
							0 49 30
morning rise	3135 Dec 31 00:39	26° ₹ 46'50		morning rise	3136 Dec 14 11:20	10° ₹ 44'16	
direct	3136 Jan 04 15:57	24° ₹ 51'32		direct	3136 Dec 18 12:33	9° × 11'47	20040104
	3136 Jan 13 15:24	0°る		morning max el	3136 Dec 26 17:25	13° ∡ 55'46	20°48'04
morning max el	3136 Jan 13 23:23	0° る 19'51	22°08'11		3137 Jan 08 07:57	0° ਰ	
desc. node	3136 Jan 27 09:04	17° る 09'16		desc. node	3137 Jan 13 06:07	7° 云 10'17	
	3136 Feb 05 04:14	0° ≈		morning set	3137 Jan 25 06:48	25° る 27'31	
morning set	3136 Feb 16 01:59	17° ≈ 00'36			3137 Jan 28 04:17	0° ≈	
max. Earth dist.	3136 Feb 21 15:37	26° ≈ 10'46	1.41038 AU	max. Earth dist.	3137 Feb 02 20:08	9° ≈ 03'16	1.42946 AU
	3136 Feb 23 21:46	0° ∀					
				superior conj	3137 Feb 09 15:28	20° ≈ 18′24	-2°06'11
superior conj	3136 Feb 29 10:02	9° ∺ 36'18	-2°01'49	minimum elong	3137 Feb 09 14:20	20° ≈ 13'36	2°06'10
minimum elong	3136 Feb 29 13:07	9°){ 49'59	2°01'40		3137 Feb 15 07:17	0° ∀	
evening rise	3136 Mar 10 19:18	28°) 38′25		evening rise	3137 Feb 21 13:12	11°) €00'36	
	3136 Mar 11 12:49	$0^{\circ}\Upsilon$		asc. node	3137 Mar 04 15:47	0° Υ 01'59	
asc. node	3136 Mar 17 18:47	11° Y '22'05			3137 Mar 04 15:16	$0^{\circ}\mathbf{\Upsilon}$	
evening max el	3136 Mar 27 01:22	24° Ƴ 34'15	18°16'07	evening max el	3137 Mar 10 12:47	7° Ƴ 38'07	18°07'04
retrograde	3136 Apr 03 03:28	28° Ƴ 06'45		retrograde	3137 Mar 17 02:17	11° Y 01'27	
evening set	3136 Apr 05 15:08	27° Υ 41'31		evening set	3137 Mar 19 19:42	10° Y 26′04	
inferior conj	3136 Apr 12 16:53	22°Υ59'10	2°53'28	inferior conj	3137 Mar 26 06:45	5° Υ 23'18	3°28'28
minimum elong	3136 Apr 12 20:23	22° Υ 51'34	2°52'43	minimum elong	3137 Mar 26 08:37	5° Υ 18'37	3°28'15
min. Earth dist.	3136 Apr 16 02:49	20° Υ '03'08	0.59445 AU	min. Earth dist.	3137 Mar 29 08:13	2° Υ 21'18	0.61607 AU
morning rise	3136 Apr 19 23:05	17° Υ 19'42	0.57443 AO	iiiii. Lattii dist.	3137 Apr 01 01:28	30°R) €	0.01007 AC
•	=	15° Υ 39'29		marning rise	•	29° ₩ 26'20	
desc. node	3136 Apr 24 08:15	15 γ 39 29 15° γ 28'43		morning rise	3137 Apr 01 19:53	29 H 20 20 27° H 02'46	
direct	3136 Apr 26 07:55		27021141	direct	3137 Apr 08 15:44		
morning max el	3136 May 10 16:28	23° Y 16'43	2/-2141	desc. node	3137 Apr 11 05:17	27° ¥ 21'33 0° Ƴ	
	3136 May 16 16:49	0° 8			3137 Apr 16 21:19		250 10152
	3136 Jun 04 17:23	0°П		morning max el	3137 Apr 22 19:57	4° Y 59'40	27°49'52
morning set	3136 Jun 10 19:15	12° ∏ 07'19			3137 May 11 12:38	0° 8	
asc. node	3136 Jun 13 18:05	18° Ⅱ 23'11		morning set	3137 May 25 23:11	26° 8 33'30	
					3137 May 27 15:08	$\Pi^{\circ}0$	
superior conj	3136 Jun 17 22:11	27° Ⅱ 30′06	0°42'43	asc. node	3137 May 31 15:06	8° Ⅲ 31′20	
minimum elong	3136 Jun 17 20:25	27° Ⅱ 20′25	0°42'22	max. Earth dist.	3137 May 31 19:43	8° Ⅱ 56'21	1.32332 AU
max. Earth dist.	3136 Jun 17 09:43	26° Ⅱ 21'30	1.32095 AU				
	3136 Jun 19 01:23	0 \circ ∞		superior conj	3137 Jun 02 08:32	12° Ⅱ 16'49	0°18'06
evening rise	3136 Jun 24 18:19	12° © 23'41		minimum elong	3137 Jun 02 07:43	12° Ⅱ 12'17	0°17'56
	3136 Jul 03 16:32	$\mathfrak{O}^{\circ}\mathfrak{O}$		evening rise	3137 Jun 09 05:43	27° Ⅱ 14'23	
desc. node	3136 Jul 21 07:33	25° Ω 24'00			3137 Jun 10 13:07	0° ©	
evening max el	3136 Jul 23 04:14	27° Ω 15'46	26°02'58		3137 Jun 27 19:00	$0^{\circ}\Omega$	
	3136 Jul 26 08:12	o° mp		evening max el	3137 Jul 04 19:45	8° Ω 06′23	24°39'31
retrograde	3136 Aug 06 03:44	4° m/24'57		desc. node	3137 Jul 08 04:34	11° Ω 00′21	
evening set	3136 Aug 12 11:52	2° mp 47'54		retrograde	3137 Jul 18 17:50	15° Ω 08'58	
min. Earth dist.	3136 Aug 16 16:45	0° mp 11'58	0.58927 AU	evening set	3137 Jul 23 20:01	14° Ω 10′29	
	3136 Aug 16 23:25	30°RΩ		min. Earth dist.	3137 Jul 29 06:54		0.56996 AU
inferior conj	3136 Aug 19 23:20	27° Ω 46'03	-4°58'12	inferior conj	3137 Aug 01 02:41	9° Ω 30'38	
minimum elong	3136 Aug 20 02:24	27° Ω 40'18		minimum elong	3137 Aug 01 02:41 3137 Aug 01 00:38	9° Ω 33'57	
morning rise	3136 Aug 27 19:07	27 δ2 40 18 23° Ω 19'02	1 3/30	morning rise	3137 Aug 01 00.38 3137 Aug 09 07:54	5° Ω 25'10	5 02 71
direct	-	$23^{\circ} \Omega 1902$ $22^{\circ} \Omega 58'50$		direct	-	5° Ω 06'01	
	3136 Aug 30 06:06		10021116		3137 Aug 11 22:56		10022140
morning max el	3136 Sep 07 06:45	26° Ω 49'44	18°31'16	morning max el	3137 Aug 21 05:51	9° Ω 26'12	19 22 49

3138 Jul 03 09:08

3138 Jul 10 18:29

24°5548'01

21°929'15 0.55543 AU

evening set

inferior conj

3139 Jun 12 20:08

3139 Jun 22 05:40

4°957'08

0°956'54 -2°54'45

evening set

min. Earth dist.

minimum elong	3139 Jun 21 22:04	1° 5 07'31	2°52'21	desc. node	3140 May 28 19:38	13° Ⅱ 07'30	
min. Earth dist.	3139 Jun 22 05:45	0°956'46	0.54882 AU	inferior conj	3140 Jun 01 01:15	13 H 07 30	-0°57'09
iiiii. Eartii tist.	3139 Jun 23 22:40	0 3 50 40	0.54662 AU	minimum elong	3140 May 31 22:34	11° I I21'06	
morning rise	3139 Jul 01 00:49	27° I I01'33		min. Earth dist.	3140 Jun 02 18:15		0.55177 AU
direct	3139 Jul 04 07:49	26° I 37'58		morning rise	3140 Jun 09 19:57	6° Ⅱ 59'16	0.55177710
direct	3139 Jul 13 17:02	0°95		direct	3140 Jun 13 19:31	6° ∏ 24'52	
morning max el	3139 Jul 16 18:01		22°07'08	morning max el	3140 Jun 27 10:17	13° I I04'58	23°49'21
asc. node	3139 Aug 01 08:28	24°953'09	22 07 00	morning max ci	3140 Jul 10 09:25	0°95	23 47 21
asc. node	3139 Aug 03 23:33	0°Ω		asc. node	3140 Jul 18 05:30	14°923'06	
morning set	3139 Aug 07 02:49	6° Ω 25'21		morning set	3140 Jul 21 14:24	21°920'00	
morning set	3137 Aug 07 02.47	0 002321		morning sec	3140 Jul 25 15:22	0°Ω	
superior conj	3139 Aug 14 07:31	21° Ω 39'45	1°40'25				
minimum elong	3139 Aug 14 06:05	21° Ω 32'14	1°40'20	superior conj	3140 Jul 28 14:37	6° Ω 25'54	1°30'07
max. Earth dist.	3139 Aug 17 18:59	28° Ω 53'41	1.34505 AU	minimum elong	3140 Jul 28 12:28	6° Ω 14'17	1°29'53
	3139 Aug 18 07:59	0° m ∕		max. Earth dist.	3140 Jul 30 19:12	11° Ω 08'00	1.33303 AU
evening rise	3139 Aug 22 08:52	8° m 01'30		evening rise	3140 Aug 05 01:40	22° Ω 04'09	
	3139 Sep 03 17:25	0∘ ত			3140 Aug 09 03:04	0° m	
desc. node	3139 Sep 07 21:58	6° £ 34'47		desc. node	3140 Aug 24 18:58	26° Mp 08'55	
	3139 Sep 26 09:42	0°M₊			3140 Aug 27 12:48	0∘ ত	
evening max el	3139 Sep 26 08:20	29° ≏ 56'44	27°00'01	evening max el	3140 Sep 07 19:51	13° ≏ 13'36	27°24'42
retrograde	3139 Oct 09 13:30	7°M13'16		retrograde	3140 Sep 21 09:47	20° ≏ 31'07	
evening set	3139 Oct 16 08:33	4° M L31'14		evening set	3140 Sep 28 13:03	17° ≙ 51'25	
min. Earth dist.	3139 Oct 20 06:55	0°M39'04	0.65441 AU	min. Earth dist.	3140 Oct 02 05:44	14° ≏ 33'34	0.63950 AU
	3139 Oct 20 20:44	30° ₹ Ω		inferior conj	3140 Oct 04 17:46	11° ≏ 58'03	-3°01'02
inferior conj	3139 Oct 22 06:26	28° ≙ 23'15	-2°01'24	minimum elong	3140 Oct 04 22:39	11° ≙ 45'22	2°59'21
minimum elong	3139 Oct 22 09:46	28° ≙ 13'41	2°00'04	morning rise	3140 Oct 11 09:29	6° ≙ 36'45	
morning rise	3139 Oct 28 11:48	22° ≏ 46'03		direct	3140 Oct 13 22:00	6° ≙ 05'06	
asc. node	3139 Oct 28 07:40	22° ≏ 51'19		asc. node	3140 Oct 14 04:43	6° ≏ 05'30	
direct	3139 Oct 31 06:01	22° ≏ 04'37		morning max el	3140 Oct 20 10:48	9° £ 30′27	17°53'28
morning max el	3139 Nov 06 18:24	25° ≏ 35'30	18°12'12		3140 Nov 03 05:13	0° M ₊	
	3139 Nov 10 11:54	0° M		morning set	3140 Nov 06 07:00	5°M16′28	
morning set	3139 Nov 25 09:52	23°M21'40					
	3139 Nov 29 11:34	0° ∡ ¹		superior conj	3140 Nov 19 00:42	26°M39'47	0°11'52
desc. node	3139 Dec 04 21:15	8° х 42′43		minimum elong	3140 Nov 19 02:01	26°M45'08	0°11'40
				behind sun begin	3140 Nov 18 19:04	26°M16'49	
superior conj	3139 Dec 10 04:39	17° ∡ 109'05		behind sun end	3140 Nov 19 08:57	27°M13'24	
minimum elong	3139 Dec 10 00:08	16° ≯ 51'12		desc. node	3140 Nov 20 18:16	29°M28'36	
max. Earth dist.	3139 Dec 12 20:15	21° ҂ 19'40	1.45133 AU		3140 Nov 21 02:02	0°⊀	
	3139 Dec 18 09:07	0°₹		max. Earth dist.	3140 Nov 24 14:43	5° ∡ 39'22	1.44420 AU
evening rise	3139 Dec 26 12:50	12° る 42'34		evening rise	3140 Dec 04 23:36	21° ∡ ′51'52	
	3140 Jan 06 17:06	0° ≈			3140 Dec 10 07:23	0°ಕ	
greatest brilliancy	3140 Jan 07 16:35	1° ≈ 29'10	-0.7m		3140 Dec 31 15:32	0° ≈	
evening max el	3140 Jan 19 20:27	17° ≈ 53'21	19°30'19	evening max el	3141 Jan 01 22:58	1° ≈ 24′20	20°30'09
asc. node	3140 Jan 24 06:54	21° ≈ 21'16		retrograde	3141 Jan 10 00:10	6° ≈ 09'01	
retrograde	3140 Jan 27 02:05	22° ≈ 03'32		asc. node	3141 Jan 10 03:57	6°≈08'53	
evening set	3140 Jan 30 14:20	20° ≈ 51'21		evening set	3141 Jan 13 21:06	4°≈42'27	
inferior conj	3140 Feb 05 02:09	14° ≈ 56'11	3°13'06		3141 Jan 18 04:56	30°Ŗる	
minimum elong	3140 Feb 04 23:54	15° ≈ 03'30	3°12'40	inferior conj	3141 Jan 19 06:16		
min. Earth dist.	3140 Feb 06 06:57	13°≈22'03	0.66531 AU	minimum elong	3141 Jan 19 03:43	28°る43'09	2°42'10
morning rise	3140 Feb 10 09:15	8°≈43'02		min. Earth dist.	3141 Jan 19 21:40	27°₹41'59	0.67375 AU
direct	3140 Feb 16 13:50	5°≈58'00		morning rise	3141 Jan 24 10:10	22° る 21'01	
morning max el	3140 Feb 28 23:01	13°≈19'46	25°50'21	direct	3141 Jan 30 00:46	19° る 51'39	2.402.6152
desc. node	3140 Mar 01 20:26	15°≈19'02		morning max el	3141 Feb 10 07:37	26° ප 35'53	24°26'53
	3140 Mar 13 11:09	0° ∀			3141 Feb 13 11:20	0° ≈	
	3140 Apr 01 09:39	0° Υ		desc. node	3141 Feb 16 17:28	3°≈53'04	
morning set	3140 Apr 05 04:30	6° Y 48'56	1.05600 177		3141 Mar 07 01:45	0° ∀	
max. Earth dist.	3140 Apr 09 00:33	14° Ƴ 01'09	1.35693 AU	morning set	3141 Mar 18 06:04	18°) € 32'14	1.00/61 :::
	2140 4 14 11 42	2.4000.4712.5	1005145	max. Earth dist.	3141 Mar 21 22:08	25°) €04'17	1.37651 AU
superior conj	3140 Apr 14 11:49	24° Y 47'21			3141 Mar 24 14:32	0° Y	
minimum elong	3140 Apr 14 15:14	25° Y 04'34	1~05'11		214134 20 10 50	70005512	1022100
_	3140 Apr 17 01:20	0° 8		superior conj	3141 Mar 28 18:50	7°Υ55'27	
asc. node	3140 Apr 21 06:13	8° 8 38'43		minimum elong	3141 Mar 28 23:17	8°Υ16'52	1°31'33
evening rise	3140 Apr 22 10:24	11° 8 03'04		evening rise	3141 Apr 06 11:04	25°Υ02'42	
	3140 May 02 12:54	0°II	2001217	asc. node	3141 Apr 08 03:15	28° Y 20'58	
evening max el	3140 May 10 10:16	10° Ⅱ 17'53	20°10'55		3141 Apr 08 23:32	0° 8	100101-
retrograde	3140 May 20 23:53	15° II 26'12		evening max el	3141 Apr 23 04:04	22° 8 07'05	19°10'28
evening set	3140 May 22 23:42	15° Ⅱ 16′02		retrograde	3141 May 02 01:50	26° 8 26'48	

	2141 M 04 02-22	260 🔾 12144			21/12 A 16 06:00	70957124	
evening set	3141 May 04 03:32	26° 8 13'44	0055125	evening set	3142 Apr 16 06:00	7° 8 57'34	2010154
inferior conj	3141 May 12 11:11	22° 8 02'40	0°55'25	inferior conj	3142 Apr 23 18:01	3° 8 27'38	
minimum elong	3141 May 12 13:22	21° 8 58'57	0°54'40	minimum elong	3142 Apr 23 21:50	3° 8 20'03	2°18'51
min. Earth dist.	3141 May 15 09:22	20° 8 04'25	0.56371 AU	min. Earth dist.	3142 Apr 27 04:17	0° 8 45'55	0.58221 AU
desc. node	3141 May 15 16:37	19° 8 52'39			3142 Apr 28 05:28	30° ₹Ƴ	
morning rise	3141 May 20 20:07	17° 8 09'56		morning rise	3142 May 01 10:35	28° Y 02'28	
direct	3141 May 25 18:55	16° 8 12'59		desc. node	3142 May 02 13:39	27° Y 31'37	
morning max el	3141 Jun 09 00:37	23° 8 30'27	25°28'34	direct	3142 May 07 08:56	26° Ƴ 31'58	
	3141 Jun 14 21:10	$\Pi^{\circ}0$			3142 May 16 18:17	0°B	
	3141 Jul 03 01:39	0ം ഉ		morning max el	3142 May 21 18:17	4° 8 12'39	26°49'01
asc. node	3141 Jul 05 02:32	4° © 11'05		Č	3142 Jun 09 13:27	$\Pi^{\circ}0$	
morning set	3141 Jul 06 02:03	6°9514'36		morning set	3142 Jun 20 12:05	21° I 02'42	
morning sec	3111341 00 02.03	0 - 11.50		asc. node	3142 Jun 21 23:32	24° I 10'37	
	2141 I-1 12 01-01	219620157	1014154	asc. Houc		0°95	
superior conj	3141 Jul 13 01:01	21°920'57	1°14'54		3142 Jun 24 16:06	0.50	
minimum elong	3141 Jul 12 22:39	21°507'58	1°14'33				
max. Earth dist.	3141 Jul 14 02:31	23° © 40'29	1.32512 AU	superior conj	3142 Jun 27 12:45	6° © 17'21	0°55'32
	3141 Jul 17 00:38	$0 {\circ} \Omega$		minimum elong	3142 Jun 27 10:38	6°≌05'44	0°55'08
evening rise	3141 Jul 20 02:56	6° Ω 31'16		max. Earth dist.	3142 Jun 27 13:45	6° © 22'53	1.32128 AU
	3141 Aug 01 15:47	0° m		evening rise	3142 Jul 04 09:52	21° © 13'19	
desc. node	3141 Aug 11 15:58	15° Mp 03'12			3142 Jul 08 17:06	$0^{\circ}\Omega$	
evening max el	3141 Aug 21 04:07	25° m 59'31	27°18'56		3142 Jul 27 02:10	0° m)	
Č	3141 Aug 26 01:30	0∘ ত		desc. node	3142 Jul 29 12:58	3° m/00'08	
retrograde	3141 Sep 03 23:39	ა — 3° ჲ 14'51		evening max el	3142 Aug 03 06:44	8° Mp 02'31	26°39'54
evening set	3141 Sep 11 03:59	ე° ഫ 49'31		retrograde	3142 Aug 17 05:44	15° Mp 14'15	20 37 34
evening set	3141 Sep 11 03:59 3141 Sep 12 07:52			•	•	~	
i E diti	-	30°R, My	0.62120.411	evening set	3142 Aug 24 00:43	13° Mp 16'44	0.60111.411
min. Earth dist.	3141 Sep 14 18:17	27° m 59'02	0.62139 AU	min. Earth dist.	3142 Aug 27 20:34	10° Mp 40'15	0.60111 AU
inferior conj	3141 Sep 17 17:46	25° Mp 14'14		inferior conj	3142 Aug 31 02:56	8° Mp 02'01	
minimum elong	3141 Sep 17 23:27	25° Mp 01'04	3°55'01	minimum elong	3142 Aug 31 07:44	~	4°40'33
morning rise	3141 Sep 24 20:35	20° m 12'04		morning rise	3142 Sep 07 16:46	3°Mp21'34	
direct	3141 Sep 27 06:04	19° m 46'57		direct	3142 Sep 10 02:12	3°Mp00'16	
asc. node	3141 Oct 01 01:45	20° m 52'54		morning max el	3142 Sep 17 14:12	6° Mp 40′25	18°11'19
morning max el	3141 Oct 04 02:29	23° Mp 15'17	17°52'46	asc. node	3142 Sep 17 22:46	7° Mp 01'34	
	3141 Oct 09 10:22	0∘ ত			3142 Oct 02 11:14	0∘ ত	
morning set	3141 Oct 20 01:15	18° £ 11'54		morning set	3142 Oct 03 10:39	1° ≏ 50'13	
8	3141 Oct 26 15:47	0° M		3 - 3			
		••		superior conj	3142 Oct 12 23:09	19° £ 32'05	1°19'42
superior conj	3141 Oct 30 23:18	7° M 29'16	0°51'26	minimum elong	3142 Oct 13 03:09	19° £ 50'09	
	3141 Oct 30 23:16 3141 Oct 31 03:26	7°M46'54	0°50'53	minimum ciong	3142 Oct 18 21:43	0°M	1 1710
minimum elong		19°M34'44		E			1 41252 ATT
max. Earth dist.	3141 Nov 07 05:04		1.43070 AU	max. Earth dist.	3142 Oct 20 14:05		1.41253 AU
desc. node	3141 Nov 07 15:18	20°M16'25		evening rise	3142 Oct 25 14:46	11°M12'10	
	3141 Nov 13 17:30	0°⊀		desc. node	3142 Oct 25 12:20	11°M02'14	
evening rise	3141 Nov 14 11:11	1° √ 09'11			3142 Nov 06 17:39	0° ∡ ¹	
	3141 Dec 03 21:19	0° ප		evening max el	3142 Nov 28 12:07	28° ∡ ³31′26	23°00'10
evening max el	3141 Dec 15 19:54	14° පි 56'30	21°41'36		3142 Nov 30 00:56	0°る	
retrograde	3141 Dec 24 21:27	20° ප් 20'04		retrograde	3142 Dec 08 16:18	4° る 33'29	
asc. node	3141 Dec 28 00:59	19° පි 26'06		evening set	3142 Dec 13 11:50	2°る35'05	
evening set	3141 Dec 29 04:47	18° ප 38'00		asc. node	3142 Dec 14 22:00	1°る13'47	
inferior conj	3142 Jan 03 13:08	12° る 20'36	2°04'20		3142 Dec 15 23:55	30°R. ✓	
minimum elong	3142 Jan 03 10:47	12° る 28'45	2°03'31	inferior conj	3142 Dec 18 20:51	26° х 12′03	1°18'56
min. Earth dist.	3142 Jan 03 16:37	12° る 08'32	0.67832 AU	minimum elong	3142 Dec 18 19:08	26° √ 17'57	
morning rise	3142 Jan 08 16:36	6°る08'31	0.07632 AC	min. Earth dist.	3142 Dec 18 13:20	26° 🖈 17'57'	0.67923 AU
direct	3142 Jan 13 16:18	4°る00'05			3142 Dec 18 13:20 3142 Dec 24 02:20	20° ₹ 03′20	0.07923 AO
			22057157	morning rise			
morning max el	3142 Jan 23 17:06	9° る 57'10	22°57'57	direct	3142 Dec 28 11:31	18° √ 17'42	
desc. node	3142 Feb 03 14:30	23° る 09'55		morning max el	3143 Jan 06 07:01	23° ∡ 26′29	21°32'43
	3142 Feb 08 12:03	0° ≈			3143 Jan 11 23:53	0°ප	
morning set	3142 Feb 27 05:56	28° ≈ 58'56		desc. node	3143 Jan 21 11:34	12° る 57'45	
	3142 Feb 27 20:36	0°) €			3143 Feb 01 21:13	0° ≈	
max. Earth dist.	3142 Mar 03 17:04	6°) 31′48	1.39810 AU	morning set	3143 Feb 07 00:48	8° ≈ 03'27	
				max. Earth dist.	3143 Feb 13 16:58	18° ≈ 51'41	1.41898 AU
superior conj	3142 Mar 11 10:35	20° ∺ 16'19	-1°53'27		3143 Feb 20 07:17	0° ∀	
minimum elong	3142 Mar 11 14:47	20°) (35′37					
	3142 Mar 16 15:36	0°Υ		superior conj	3143 Feb 21 06:05	1°) 38'40	-2°05'29
evening rise	3142 Mar 21 02:45	8° Υ 31'14		minimum elong	3143 Feb 21 07:43	1°) (45'49	
asc. node	3142 Mar 26 00:16	17° Υ 44'26		evening rise	3143 Mar 04 05:51	21°)(20'38	- 0521
asc. nouc		0° 8		evening 1150		21 π2038 0°Υ	
	3142 Apr 02 11:14		10020114	1	3143 Mar 09 00:15		
evening max el	3142 Apr 06 07:25	4° 8 32'47	18°30'14	asc. node	3143 Mar 12 21:18	6° Y 42'59	10000176
retrograde	3142 Apr 13 22:02	8° 8 17'33		evening max el	3143 Mar 20 16:58	17° Ƴ 26'19	18°09'56

retrograde	3143 Mar 27 12:14	20° Ƴ 52'42			3144 Mar 16 22:53	30° ₹ ₩	
evening set	3143 Mar 30 02:30	20° Y 23′16		inferior conj	3144 Mar 18 18:12	28° ∺ 09'30	3°35'39
inferior conj	3143 Apr 05 21:32	15° Ƴ 32'22	3°11'37	minimum elong	3144 Mar 18 19:17	28° ∺ 06′39	3°35'36
minimum elong	3143 Apr 06 00:26	15° Y 25'40	3°11'08	min. Earth dist.	3144 Mar 21 14:00	25° 升 12′27	0.62497 AU
min. Earth dist.	3143 Apr 09 05:02	12° Ƴ 30'40	0.60374 AU	morning rise	3144 Mar 25 01:05	22° ∺ 08′00	
morning rise	3143 Apr 12 20:13	9° Ƴ 44'33		direct	3144 Mar 31 22:47	19° ∺ 33'59	
direct	3143 Apr 19 11:10	7° Ƴ 38'29		desc. node	3144 Apr 05 07:45	20°) €28'48	
desc. node	3143 Apr 19 10:42	7° Ƴ 38'29		morning max el	3144 Apr 14 23:35	27°) €31'03	27°50'21
morning max el	3143 May 03 18:00	15° Ƴ 31'02	27°38'13		3144 Apr 17 08:22	0 ° Υ	
	3143 May 15 12:53	0°B			3144 May 08 05:40	0°B	
	3143 Jun 02 00:09	$\Pi^{\circ}0$		morning set	3144 May 18 20:11	19° 8 55'44	
morning set	3143 Jun 04 18:50	5° Ⅱ 38'48		Ü	3144 May 23 16:13	Π°	
asc. node	3143 Jun 08 20:35	14° Ⅱ 17'08		max. Earth dist.	3144 May 24 09:19	1° Ⅱ 31'31	1.32567 AU
max. Earth dist.	3143 Jun 11 01:19	19° Ⅱ 04'20	1.32147 AU	asc. node	3144 May 25 17:39	4° Ⅱ 25'46	
					,		
superior conj	3143 Jun 12 00:07	21° Ⅱ 09'30	0°32'38	superior conj	3144 May 26 09:22	5° Ⅱ 51'01	0°06'54
minimum elong	3143 Jun 11 22:43	21° I 101'45	0°32'20	minimum elong	3144 May 26 09:03	5° ∏ 49'14	0°06'50
minimum clong	3143 Jun 16 00:48	0°95	0 32 20	behind sun begin	3144 May 26 04:20	5° Ⅱ 23'39	0 00 30
evening rise	3143 Jun 18 20:14	6° © 03'10		behind sun end	3144 May 26 13:46	6° Ⅱ 14'52	
evening rise	3143 Jul 01 10:09	0°Ω		evening rise	3144 Jun 02 08:03	0 П1432 20°П53'34	
avanina may al		19° Ω 18'09	25°30'04	evening rise	3144 Jun 06 18:10	20 H 33 34	
evening max el	3143 Jul 16 02:12	19°Ω36'32	23 30 04				22950117
desc. node	3143 Jul 16 09:58			evening max el	3144 Jun 26 16:04	29° © 55'27	23°59'16
retrograde	3143 Jul 30 01:56	26° Ω 24'50			3144 Jun 26 17:58	0° Ω	
evening set	3143 Aug 04 22:40	25° Ω 04'38	0.50071 411	desc. node	3144 Jul 02 06:59	4° Ω 21'12	
min. Earth dist.	3143 Aug 09 14:14	22° Ω 24'31		retrograde	3144 Jul 10 10:19	6° Ω 50'50	
inferior conj	3143 Aug 12 17:53	20° Ω 12'08		evening set	3144 Jul 14 21:18	6° Ω 06'56	
minimum elong	3143 Aug 12 19:04	20° Ω 10′03	5°04'40	min. Earth dist.	3144 Jul 21 02:32	3° Ω 06′19	
morning rise	3143 Aug 20 17:48	15° Ω 54'22		inferior conj	3144 Jul 23 12:37	1° Ω 37'16	
direct	3143 Aug 23 06:16	15° Ω 34'43		minimum elong	3144 Jul 23 08:04	1° Ω 44'17	4°51'32
morning max el	3143 Aug 31 18:40	19° Ω 36'51	18°50'30		3144 Jul 26 05:59	30°ષ્દ્	
asc. node	3143 Sep 04 19:49	24° Ω 16'51		morning rise	3144 Jul 31 21:27	27° © 38'54	
	3143 Sep 08 14:58	O° My		direct	3144 Aug 03 15:06	27° © 19'34	
morning set	3143 Sep 17 06:41	15° m 59'04			3144 Aug 11 04:45	0 $^{\circ}$ Ω	
	3143 Sep 24 10:52	0。 ত		morning max el	3144 Aug 13 13:04	1° Ω 55'46	19°51'19
				asc. node	3144 Aug 21 16:53	12° Ω 24′28	
superior conj	3143 Sep 25 19:04	2° ჲ 33'56	1°36'49	morning set	3144 Aug 31 10:02	0° Mp 29′36	
minimum elong	3143 Sep 25 21:34	2° £ 45'46	1°36'38		3144 Aug 31 04:10	0° m ∕	
max. Earth dist.	3143 Oct 02 19:08	15° ≏ 27'31	1.39201 AU				
evening rise	3143 Oct 06 17:35	22° ≏ 18'58		superior conj	3144 Sep 08 05:50	16° m 20'21	1°44'17
	3143 Oct 11 08:07	0° M		minimum elong	3144 Sep 08 06:33	16° m 23'55	1°44'15
desc. node	3143 Oct 12 09:21	1°M42'21		max. Earth dist.	3144 Sep 14 00:07	27° m 30'31	1.37165 AU
	3143 Oct 31 16:22	0° ∡ ¹			3144 Sep 15 08:09	0∘ ত	
evening max el	3143 Nov 11 01:24	12° ∡ 10′00	24°19'51	evening rise	3144 Sep 17 19:06	4° -2 29′08	
retrograde	3143 Nov 22 07:27	18° ∡ ¹45'13		desc. node	3144 Sep 28 06:22	22° ہ 12'33	
evening set	3143 Nov 27 16:35	16° ∡ ³30'30			3144 Oct 03 07:32	0° M	
asc. node	3143 Dec 01 19:03	11° ∡ 754'43		evening max el	3144 Oct 23 13:38	25°M51'23	25°33'38
min. Earth dist.	3143 Dec 02 09:25	11° ∡ ¹06'58	0.67670 AU	3	3144 Oct 28 10:28	0° ⊼ ¹	
inferior conj	3143 Dec 03 03:36	10° ₹ 05'55	0°27'47	retrograde	3144 Nov 04 18:11	2° ∡ ′51′05	
minimum elong	3143 Dec 03 02:56	10° ≯ 08'10	0°27'30	evening set	3144 Nov 10 17:25	0° ∡ ¹21'46	
morning rise	3143 Dec 08 13:19	4° ≯ 02'46		Ü	3144 Nov 11 03:20	30°RM	
direct	3143 Dec 12 09:08	2° ₹ 39'09		min. Earth dist.	3144 Nov 15 02:31	25°M33'10	0.67076 AU
morning max el	3143 Dec 20 04:15	7° ∡ ¹06'45	20°17'37	inferior conj	3144 Nov 16 07:38	23°M59'54	
morning must vi	3144 Jan 06 06:33	0°る	20 17 37	minimum elong	3144 Nov 16 08:21	23°M57'36	
desc. node	3144 Jan 08 08:37	3° る 07'26		asc. node	3144 Nov 17 16:06	22°M17'33	0 27 33
morning set	3144 Jan 16 22:58	16° ප 14'44		morning rise	3144 Nov 21 23:36	18°M04'48	
morning set	3144 Jan 25 17:11	0°≈		direct	3144 Nov 25 07:45	17°ML00'33	
max. Earth dist.	3144 Jan 27 01:03		1.43625 AU	morning max el	3144 Dec 02 09:26	20°M57'58	19°16'24
max. Earth dist.	3144 Jan 27 01.03	2 ~0730	1.43023 AU	morning max cr		20 11 c 3738	19 10 24
	2144 5 1 02 00 24	11051127	2002104	4 41 311	3144 Dec 09 15:51		0.7
superior conj	3144 Feb 02 00:34	11°≈51'27		greatest brilliancy	3144 Dec 16 04:46	9° × ⁷ 38'11	-0.7m
minimum elong	3144 Feb 01 20:57	11° ≈ 36'31	2*02.57	desc. node	3144 Dec 25 05:40	23° 🗷 33'03	
	3144 Feb 12 17:38	0°) {		morning set	3144 Dec 25 23:49	24° ₹ '43'28	
evening rise	3144 Feb 14 16:04	3°) €21'34		pp. 31.57	3144 Dec 29 09:17	0°る	1 44==1 :==
asc. node	3144 Feb 27 18:21	25°) €08'00		max. Earth dist.	3145 Jan 08 15:52	16° る 05'05	1.44771 AU
	3144 Mar 02 14:45	0° Υ					
evening max el	3144 Mar 03 05:20	0° Y 37'40	18°09'00	superior conj	3145 Jan 11 17:47	20° る 57'42	
retrograde	3144 Mar 09 16:22	4° Υ 01'02		minimum elong	3145 Jan 11 09:12	20° る 23'39	1°41'08
evening set	3144 Mar 12 12:15	3° Y 20'48			3145 Jan 17 09:12	0° ≈	

evening mase of 3145 km 20 08316 1496774 eyening mase of 3146 km 29 0335 27968781 1900279 eyening mase of 3145 km 29 0335 27968781 1900279 eyening mase of 3145 km 29 0335 17868787 of 24 035 27 0848878 eyening mase of 3145 km 20 10 22 0 074 17878 eyening mase of 3145 km 20 0255 1794225 cycling act of 3146 km 20 0358 1794178 279389 infacire cord 3145 km 20 0358 1794178 279438 infacire cord 3145 km 20 0358 2794389 infacire cord 3145 km 20 0358 2794389 infacire cord 3145 km 20 0358 2794389 infacire cord 3145 km 20 0359 279438 infacire	evening rise	3145 Jan 26 05:16	14° ≈ 27'34		evening max el	3146 Jan 29 03:35	270~28113	1000227
Secondary 145 Feb 17 154 17 17 17 17 17 17 17 1	evening rise				C			19 02 27
cwenting mace of Part Part Part Part Part Perturgande counting as all 145 Feb 12 of 221 147 147 147 147 147 147 147 147 147 14	asa nada				asc. Houe			
Authors				10026147	ratragrada			
Second 145 150 145 1	•			18 2047	•			
Inferior corrig 345 May 0, 20, 528 117941177 373879 minferior corrigo 346 Fabr 1, 21, 20 24794728 27245 378788 min Farth dist 346 Fabr 1, 21, 22 24794728 27245 27	-				evening set			
maintame dong	0			2020120			•	2027/01
nm. Earth disk. 3145 May 10 98.37 8*H3824 0.4363 AU mm. Earth disk 3146 Feb 19 10.25 22*P4849 0.6582 AU direct 3145 May 12 81.25 9*H0224 0.59463 direct 3146 Feb 19 10.90 18*Pay 10*P4 desc. rode 3145 May 12 80.50 19*H0722 2*72615 morning max 3146 May 10 18.48 2*3*0720 2*3*155 morning set 3145 May 12 81.50 10*H0722 2*72615 morning max 3146 May 10 18.48 2*3*0720 2*3*155 morning set 3145 May 10 14.50 10*H0722 2*72615 morning set 3146 May 10 18.48 2*3*0720 2*3*155 max Farth dist 3145 May 10 18.43 0*B*128 morning set 3146 Apr 19 2.30 16*0*0*0*0*0*0*0*0*0*0*0*0*0*0*0*0*0*0*0					-			
Montaing fixed 314 S Mar 14 1522 2941 34 16 Feb 20 0	_				_			
direct 3145 Mar 31625 29/13737 direct 3146 Mar 10 25 20/1375 29/1375 morning max 3145 Mar 20 3145				0.64363 AU				0.65852 AU
Sees node 314 SM ar 23 04-50 597-500 Sees node 3146 Mar 10 01-53 22*8-62*54 Sees note 3145 Mar 10 1459 Sees Sees node 3146 Mar 10 01-53 22*8-62*54 Sees node 3146 Mar 10 1454 Sees Sees node 3146 Mar 10 1454 Sees Sees node 3146 Mar 10 1459 Sees Sees node 3146 Mar 10 1459 Sees Sees node 3146 Mar 10 1459 Sees Sees node 3145 Mary 07 041 12*962*05 133418 Mar 10 1437 Sees node 3145 Mary 10 1437 Sees node 3145 Mary 10 1437 Sees node 3145 Mary 10 1543 Sees node 3145 Ma	•				•			
Manuming max el 314 Mar 28 (85 50 0)*Hor 22 2726/15 moming max el 3146 Mar 16 (2121 0)** 3145 Mar 12 (1429) 0°B** 3146 Mar 16 (2121 0)** 3145 Mar 12 (1429) 0°B** 3146 Mar 16 (2121 0)** 3145 Mar 17 (1429) 0°B** 3146 Mar 19 (2101 0°F**)** 0°F**								
345 Agr 12 23-41 0°PC								
morning set 3145 May 10 14-39	morning max el			27°26'15	morning max el			26°31'55
max. Earth dist.								
max. Earth dist. 3148 May 07 09.41 13°85/205 13.434 Ab 1 max. Earth dist. 3146 Apr 12 21.04 42°P°931 134725 AU superior conj 3145 May 10 1437 20°B1602 20°939 superior conj 3146 Apr 24 13.37 4°B1813 0°4929 asc. node 3145 May 15 03.48 0°11 asc. node 3146 Apr 24 16.12 4°B3122 0°4900 evening rise 3145 May 16 03.48 0°11 asc. node 3146 Apr 29 11.44 14°B3132 0°4900 evening max el 3145 May 08 03.41 0°62 evening max el 3146 May 07 01.42 0°11 0°11 0°11 0°11 0°11 0°11 0°11 0°11 0°11 0°11 0°14			_					
superior conj 3145 May 10 1437 20°B1602 40°20'S2	•	•	_		-			
Seminimonic Signatur Signat	max. Earth dist.	3145 May 07 09:41	13° 8 32'05	1.33418 AU	max. Earth dist.	-		1.34725 AU
minimumelong 3145 May 10 1540 20°B2179 o°20'39 minimumelong 3146 Apr 24 16.12 4°B3173 o°49'20' asc. node 3145 May 17 1925 o°118' asc. node 3146 Apr 29 11.44 14°B3'337 o°49'10' asc. node 3146 May 10 04.12 16°B3' asc. node 3146 May 00 04.26 20°B1' ST o°49' no minimum long 3146 May 00 04.26 20°B1' ST o°49' no minimum long 3145 May 00 32.11 0°49' asc. node 3145 May 00 04.26 20°B1' ST o°49' no minimum long 3145 May 00 04.26 20°B1' ST o°49' no minimum long 3145 May 00 04.26 20°B1' ST o°49' no minimum long 3145 May 01 04.01 16°B2' ST 04°B2' No minimum long 3145 May 01 05.20 20°B1' No minimum long 3145 May 01 05.20 0°B						3146 Apr 22 11:04	0°8	
Sest node 3145 May 12 1442 24°B3234 minimum elong 3146 Apr 24 1612 4°B3172 0°4900		3145 May 10 14:37	_					
cvening rise 3145 May 17 5 03.48 O°Π asc. node 3146 May 20 21.02 20°E 0178 cvening rise 3145 May 17 23.212 0°ES cvening max el 3146 May 00 20.426 20°E 0178 cvening max el 3145 Jun 98 06.66 10°E92143 22°22243 cvening max el 3146 May 20 10.660 21°E 10797 retrograde 3145 Jun 21 06.49 16°E938324 retrograde 3146 Jun 03 10.31 20°E 118716 evening set 3145 Jun 21 06.49 16°E938324 evening set 3146 Jun 03 01.32 22°E 118716 min. Earth dist. 3145 Jul 03 13.34 12°291976 -38°102 minimum clong 3146 Jun 10 01.32 22°E 11438 minimum clong 3145 Jul 12 060.3 8°E92901 minimum clong 3146 Jun 10 01.32 12°E 14889 direct 3145 Jul 12 060.8 8°E92901 direct 3146 Jun 18 01.31 18°E 11734 morning rise 3145 Jul 12 060.8 8°E92901 direct 3146 Jun 18 01.31 18°E 11734 asc. node 3145 Jul 12 060.8 13°E 11139 asc. node 3146 Jul 18 148 0°E <t< td=""><td>minimum elong</td><td>3145 May 10 15:40</td><td>20°821'39</td><td>0°20'39</td><td>superior conj</td><td>3146 Apr 24 13:37</td><td>_</td><td></td></t<>	minimum elong	3145 May 10 15:40	20° 8 21'39	0°20'39	superior conj	3146 Apr 24 13:37	_	
evening rise 3145 May 17 19.25 5°T38'09 evening rise 3146 May 02 04.26 20°E10'88	asc. node	3145 May 12 14:42	24° 8 32'34		minimum elong	3146 Apr 24 16:12	4° 8 31'32	0°49'00
evening max el 3145 May 30 23:12 0°\$0 evening max el 3146 May 07 01:42 0°\$1 evening max el 3145 Jun 80 66:46 10°\$2143 2°\$2243 evening max el 3146 Jun 01 19:88 26°\$\$14907 evening set 3145 Jun 01 20:62 10°\$4301 evening set 3146 Jun 01 23:22 12°\$\$12816 evening set 3145 Jun 01 20:62 12°\$613816 evening set 3145 Jun 01 20:62 12°\$61381 12°\$625 12°\$1246 minimum elong 3146 Jun 10 10:23 22°\$1438 2°\$6633 evening rise 3145 Jun 10 10:36 22°\$14740 2°\$6733 1345 Jun 01 30:30 12°\$251474 2°\$74856 min Earth dist. 3145 Jun 10 10:36 22°\$14748 2°\$74876 minimum elong 3145 Jun 10 10:36 22°\$14748 2°\$4876 minimum elong 3145 Jun 10 10:36 22°\$14748 2°\$4876 morning rise 3145 Jun 12 0:602 8°\$20819 direct 3145 Jun 12 0:602 8°\$20816 direct 3145 Jun 12 0:602 8°\$20819 direct 3145 Jun 12 0:602 8°\$20816 direct 3145 Jun 12 0:602 8°\$20819 direct 3145 Jun 12 0:6		3145 May 15 03:48	Π $^{\circ}0$		asc. node	3146 Apr 29 11:44	14° 8 33'37	
Seed	evening rise	3145 May 17 19:25	5° Ⅱ 38′09		evening rise	3146 May 02 04:26	20° 8 10'58	
desc. node 3145 Jun 19 04-01 16°\$28834 retrograde 3146 Jun 01 19:58 26°\$\tau\$P077 retrograde 3145 Jun 24 06-99 16°\$\tau\$P852 evening set 3146 Jun 02 32:21 26°\$\tau\$P077 retrograde 3145 Jun 24 06-59 16°\$\tau\$P852 desc. node 3146 Jun 03 22:17 22°\$\tau\$P078 retrograde 3145 Jun 24 0150 22°\$\tau\$P078 retrograde 3145 Jun 30 71.75 22°\$\tau\$P078 retrograde 3145 Jun 30 13.43 32°\$\tau\$P079 retrograde 3145 Jun 30 71.75 22°\$\tau\$P079 retrograde 3145 Jun 30 13.43 32°\$\tau\$P079 retrograde 3145 Jun 30 63.30 22°\$\tau\$P079 retrograde 3145 Jun 24 012.30 32°\$\tau\$P079 retrograde 3145 Jun 24 012.30 32°\$\tau\$P079 retrograde 3145 Jun 25 09.52 32°\$\tau\$P079 retrograde 3145 Sep 71 12.50 retrogr		3145 May 30 23:12	0 \circ \odot			3146 May 07 01:42	Π $^{\circ}0$	
Pertograde 3145 Jun 21 06.49 16°824875 desc. node 3146 Jun 03 23.21 26°138*16 cevening set 3145 Jun 24 06.59 16°826875 desc. node 3146 Jun 30 71.77 22°140875 cevening set 3145 Jun 3145 Jun 30 13.23 22°24875 cevening rise 3145 Jun 30 33.31 22°31976 cevening rise 3145 Jun 30 13.24 22°31974 cevening rise 3145 Jun 30 63.30 22°311978 cevening rise 3145 Jun 30 63.30 22°311978 cevening rise 3145 Jun 30 63.30 22°311978 cevening rise 3145 Jun 3145 Jun 26 19.53 cevening rise 3145 Jun 26 19.53 cevening rise 3145 Jun	evening max el	3145 Jun 08 06:46	10° © 21'43	22°22'43	evening max el	3146 May 21 06:06	21° Ⅲ 09'51	20°54'30
ceening set 3145 Jun 24 0.659 16°929873 ceening fairth dist 3146 Jun 3 07:17 22°14078 2°26374 ceening frieor conj 3145 Jun 03 1343 2°39673 2°39176 minimum elong 3145 Jun 03 1343 2°39174 3°48756 minimum elong 3146 Jun 14 01:36 22°11478 2°24975 minimum elong 3145 Jun 12 06:02 8°29291 minimum elong 3146 Jun 14 01:36 22°11478 2°4975 morning rise 3145 Jun 15 06:38 8°290819 morning rise 3146 Jun 25 16:00 18°11734 direct 3146 Jun 31	desc. node	3145 Jun 19 04:01	16° © 38'34		retrograde	3146 Jun 01 19:58	26° Ⅱ 49'07	
min. Earth dist 3145 Jul 02 1329 12°935412 0.55147 AU minimum clong 3145 Jul 03 13:43 12°935413 23°9156 - 3°5102 minimum clong 3145 Jul 03 13:43 12°9613134 33°4856 min. Earth dist. 3146 Jul 10:106 22° JL1478 0.54884 AU minimum clong 3145 Jul 12 06:02 8°52901 morning rise 3146 Jul 03 10:24 22° JL1478 0.54884 AU minimum clong 3145 Jul 12 06:02 8°52901 morning max cl 3145 Jul 15 06:38 8°520819 morning max cl 3145 Jul 20 19:33 13°83051 12°12'46 morning max cl 3146 Jul 08 16:24 24° JL24'4 22° 49'57 asc. node 3145 Aug 07 21:52 0°\$\Q\$\Q\$\Q\$\Q\$\Q\$\Q\$\Q\$\Q\$\Q\$\Q\$\Q\$\Q\$\Q\$	retrograde	3145 Jun 21 06:49	16° 5 48'52		evening set	3146 Jun 03 23:21	26° Ⅲ 38′16	
minimum elong 3145 Jul 03 13:43 12°\$\mathref{\	evening set	3145 Jun 24 06:59	16° © 28'53		desc. node	3146 Jun 06 01:03	26° Ⅲ 08′25	
minimum elong	min. Earth dist.	3145 Jul 02 13:29	12° © 54'12	0.55147 AU	inferior conj	3146 Jun 13 07:17	22° Ⅱ 40′38	-2°06'33
moming rise 3145 Jul 12 06.02 8°Φ2901 moming rise 3146 Jul 22 03:13 18°T1734 direct 3145 Jul 15 06.38 8°Φ20819 direct 3146 Jul 25 16:03 18°T1039 moming max el 3145 Jul 26 19:53 31°953051 21°12'46 moming max el 3146 Jul 31 08:16:24 24°T12'444 22°49'57 asc, node 3145 Aug 81 51 8:05 15°Ω13'58 moming set 3146 Jul 31 03:38 0°Φ2 superior conj 3145 Aug 22 19:42 0°™ 18°40' 3146 Jul 31 03:38 0°Q superior conj 3145 Aug 23 03:00 0°™37'51 1°43'46 superior conj 3146 Aug 07 07:17 15°Q16'52 1°36'42 minimum elong 3145 Aug 23 03:00 0°™37'51 1°43'44 minimum elong 3146 Aug 07 07:17 15°Q16'21 1°36'42 max. Earth dist 3145 Aug 31 15:19 17°°#32'23 "43'44 minimum elong 3146 Aug 17 00:45 21°Q16'21 1°36'42 evening rise 3145 Cat 25 12:19 12°M20'58 0°M axx. Earth dist 3146 Aug 16 10:45 21°Q16'23 1°36'34 <td>inferior conj</td> <td>3145 Jul 03 13:43</td> <td>12°©19'56</td> <td>-3°51'02</td> <td>minimum elong</td> <td>3146 Jun 13 01:24</td> <td>22°∏48'59</td> <td>2°04'29</td>	inferior conj	3145 Jul 03 13:43	12°©19'56	-3°51'02	minimum elong	3146 Jun 13 01:24	22° ∏ 48'59	2°04'29
moming rise 3145 Jul 12 06.02 8°Φ2901 direct moming rise direct 3146 Jul 22 03:13 18°T3734 18°T3	minimum elong	3145 Jul 03 05:30	12° © 31'34	3°48'56	min. Earth dist.	3146 Jun 14 01:36	22° Ⅱ 14'38	0.54884 AU
direct 3145 Jul 15 06.38 8°\$0819 direct 3146 Jul 25 16.00 18°£ T1039 morning maxel 3145 Jul 26 19.53 13°\$23051 21°12'46 morning max el 3146 Jul 08 16:24 24°\$12'444 22°49'57 3146 Jul 31 18.48 0°\$\$2 asc. node 3145 Aug 08 13:57 1°\$\text{\$\alpha\$}\$\alp			8° © 29'01		morning rise	3146 Jun 22 03:13	18° Ⅱ 37'34	
morning max el 3145 Jul 26 19:53 33°\$30'51 21°12'46 morning max el 3146 Jul 13 18:48 0°\$\$ 3145 Jul 26 19:53 1°\$\frac{2}{1}\$ 1°\$2		3145 Jul 15 06:38	8° © 08'19		-	3146 Jun 25 16:00		
asc. node 3145 Aug 07 21:52 0°Ω asc. node 3146 Jul 13 18:48 0°Œ asc. node 3145 Jul 26 11:00 20°Œ28'36 morning set 3145 Aug 15 18:05 15°Ω13'58 morning set 3146 Jul 31 10:33 0°Ω 0636'3 145 Aug 22 19:42 0°™ 33'50 1°43'44 morning set 3146 Aug 07 07:17 15°Ω16'21 1°36'42 morning set 3145 Aug 23 02:14 0°™ 33'50 1°43'44 minimum elong 3146 Aug 07 07:17 15°Ω16'21 1°36'42 max. Earth dist. 3145 Aug 23 02:14 0°™ 33'50 1°43'44 minimum elong 3146 Aug 10 04:55 21°Ω23'47 1.33941 AU evening rise 3145 Aug 31 15:19 17°™ 32'23 3146 Aug 11 10:13 0°™ 4.33941 AU evening rise 3145 Sep 07 12:50 0°Ω 12°Ω 26'55 3146 Aug 14 10:13 0°™ 4.33941 AU evening max el 3145 Sep 15 03:21 12°Ω26'55 3146 Aug 13 11:44 0°Ω 4.33941 AU evening max el 3145 Sep 15 03:21 12°Ω26'55 3146 Aug 13 11:44 0°Ω 4.39941 AU evening max el 3145 Oct 18 23:50 16°™ 4.411		3145 Jul 26 19:53	13° © 30'51	21°12'46	morning max el	3146 Jul 08 16:24	24° ∏ 24'44	22°49'57
asc. node morning set morning								,, ,,
moming set 3145 Aug 15 18:05 15° Ω13'58 moming set 3146 Jul 31 04:53 0° Ω06'36 o° Ω 06'36 o	asc. node	-			asc. node			
superior conj slafs Aug 22 19:42 0°m slafs and slafs and slafs Aug 23 03:00 0°m 37:51 1°43'46 minimum elong minimum elong slafs Aug 23 02:14 0°m 33'50 1°43'44 minimum elong slafs Aug 23 02:14 0°m 33'50 1°43'44 minimum elong slafs Aug 27 10:08 9°m 21'36 1.35367 AU max. Earth dist. slafs Aug 31 15:19 17°m 32'23 slafs Aug 31 11:41 01'30 0°m slafs Sep 07 12:50 0°m evening rise slafs Sep 07 12:50 0°m evening rise slafs Sep 07 12:50 0°m evening max el 3146 Aug 15 01:48 1°m 170°9 desc. node slafs Sep 27 14:26 0°m evening max el 3146 Aug 31 11:44 0°m evening max el 3145 Oct 18 23:50 16°m 44'11 evening set slafs Oct 18 23:50 16°m 44'11 evening set slafs Oct 25 12:19 14°m 04'37 retrograde slafs Oct 31 06:59 7°m 50'02 1°2'6'47 minimum elong slafs Oct 31 06:59 7°m 50'02 1°2'6'47 minimum elong slafs Nov 04 13:09 3°m 18'm 18'09 morning rise slafs Nov 04 13:09 3°m 18'm 18'09 morning max el 3145 Nov 06 07:01 2°m 05'3 1°m 18'm 18'm 18'm 18'm 18'm 18'm 18'm 18'		-						
superior conj 3145 Aug 23 03:00 0°₱3751 1°43'46 superior conj 3146 Aug 07 07:17 15°\$\Omega\$16'21 1°36'42 minimum elong 3145 Aug 23 02:14 0°₱33'50 1°43'44 minimum elong 3146 Aug 07 05:29 15°\$\Omega\$06'46 1°36'34 max. Earth dist. 3145 Aug 27 10:08 9°₱21'36 1.35367 AU max. Earth dist. 3146 Aug 10 04:55 21°\Omega\$23' 133941 AU evening rise 3145 Aug 31 15:19 17°₱32'23 3146 Aug 11 0:13 0°₱ 200 12 12°\Omega\$23' 12°\Omega\$23' 12°\Omega\$23' 1345 Sep 07 12:50 0°\Omega\$4 evening rise 3146 Aug 11 0:13 0°\Omega\$4 10:13 0°\Omega\$4 10:13 145 Sep 15 03:21 12°\Omega\$26'55 3146 Aug 31 11:14 0°\Omega\$4 12°\Omega\$4 12	morning sec	-			morning sec			
minimum elong		3143 Aug 22 17.42	Ų ių			3140 Jul 31 03.30	0 00	
minimum elong	superior coni	3145 Aug 23 03:00	0° m 37'51	1°43'46	superior coni	3146 Aug 07 07:17	15°Ω16'21	1°36'42
max. Earth dist. 3145 Aug 27 10:08 9°\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		•	-			-		
evening rise 3145 Aug 31 15:19	=	•			_	-		
desc. node 3145 Sep 07 12:50 0° \(\omega \)		-				Č		
desc. node 3145 Sep 15 03:21 12°426'55 desc. node 3146 Aug 31 11:44 0°4 27°13'54 evening max el 3145 Cot 16 01:51 9°M.30'12 26°34'09 evening max el 3146 Sep 02 00:21 2°418'22 retrograde 3145 Oct 18 23:50 16°M.44'11 3146 Sep 29 14:44 0°M. retrograde 3145 Oct 25 12:19 14°M.04'37 retrograde 3146 Oct 01 23:53 0°M.17'03 min. Earth dist. 3145 Oct 29 14:19 9°M.51'56 0.66135 AU 3146 Oct 04 06:59 30°R.4 inferior conj 3145 Oct 31 06:59 7°M.50'02 1°26'47 evening set 3146 Oct 08 22:55 27° 434'43 asc. node 3145 Nov 04 13:09 3°M.18'09 inferior conj 3146 Oct 12 18:36 23° 457'27 0.64845 AU asc. node 3145 Nov 06 07:01 2°M.05'33 minimum elong 3146 Oct 14 23:27 21° 420'58 22° 25'44 direct 3145 Nov 09 05:33 1°M.17'04 morning rise 3146 Oct 21 09:05 16° 40'113 morning max el 3145 Dec 03 05:41 0° ₹ 4° **X5'04'13 morning set 3145 Dec 03 05:41 0° ₹ 4° **X5'04'13 morning set 3145 Dec 12 02:41 14° **X'09'13 morning set 3145 Dec 21 20:12 29° **X'29'20 1"02'47 morning set 3146 Nov 07 18:40 0° ¶ superior conj 3145 Dec 21 20:12 29° **X'29'20 1"02'47 morning set 3146 Nov 07 18:40 0° ¶ morning set 3145 Dec 22 04:01 0° ♥ 3145 Dec 23 13:04 0° ₹ 3145 Dec 23 13:04 0° ₹ 3145 Dec 23 13:04 0° ₹ 3145 Dec 24 13:13 28° **X'59'10 1"01'51 desc. node 3146 Nov 07 18:40 0° ¶ **X'52'14 4° **X'52'14 4		-	-		evening rise	-		
evening max el 3145 Sep 27 14:26	desc node	•			o ronning rise	•	-•	
evening max el 3145 Oct 06 01:51 9° M.30'12 26°34'09 evening max el retrograde 3146 Sep 18 14:05 22° \(\omega\) 58'41 27° 13'54 evening set 3145 Oct 18 23:50 16° M.44'11 retrograde 3146 Sep 29 14:44 0° M. evening set 3145 Oct 25 12:19 14° M.04'37 retrograde 3146 Oct 01 23:53 0° M.17'03 noin. Earth dist. 3145 Oct 25 12:19 14° M.04'37 retrograde 3146 Oct 04 06:59 30° M.17'03 noin. Earth dist. 3145 Oct 31 06:59 7° M.50'02 -1° 26'47 evening set 3146 Oct 08 22:55 27° \(\omega\) 34'43 noinimum elong 3145 Oct 31 09:21 7° M.42'57 1° 25'47 min. Earth dist. 3146 Oct 12 18:36 23° \(\omega\) 57'27 0.64845 AU asc. node 3145 Nov 04 13:09 3° M.18'09 inferior conj 3146 Oct 12 18:36 23° \(\omega\) 57'27 0.64845 AU asc. node 3145 Nov 09 05:33 1° M.18'09 inferior conj 3146 Oct 15 03:29 21° \(\omega\) 20' 26'56 morning rise 3145 Nov 09 05:33 1° M.17'04 morning rise 3146 Oct 15 03:29 21° \(\omega\) 20' 25'24 direct 3145 Nov 09 05:33 1° M.17'04 morning rise 3146 Oct 12 109:05 16° \(\omega\) 20' 25'24 direct 3145 Nov 15 20:58 4° M.55'06 18° 30'52 asc. node 3146 Oct 24 00:28 15° \(\omega\) 22' 25'24 desc. node 3145 Dec 03 05:41 0° \(\omega\) 4° \(\omega\) 20' 26' 4° \(\omega\) 20' 26' 4° \(\omega\) 20' 20' 3145 Dec 03 05:41 0° \(\omega\) 4° \(\omega\) 20' 20' 3145 Dec 03 05:41 14° \(\omega\) 20' 21' 31' 3145 Dec 03 05:41 14° \(\omega\) 20' 21' 31' 3145 Dec 03 05:41 16° \(\omega\) 20' 21' 31' 31' 31' 3145 Dec 03 06:41' 31' 31' 31'	desc. node	•			desc node	•		
retrograde	evening may el	-		26°34'09		-		27°13'54
evening set 3145 Oct 25 12:19	•			20 310)	evening max or			27 1331
min. Earth dist. 3145 Oct 29 14:19 9° \textstyle 51'56 0.66135 AU inferior conj 3145 Oct 31 06:59 7° \textstyle 50'02 -1° 26'47 evening set 3146 Oct 04 06:59 22:55 27° \textstyle 24'43 \ asc. node 3145 Nov 04 13:09 3° \textstyle 18:09 3° \textstyle 18:30 40 0ct 12 18:36 23° \textstyle 25'27 0.64845 AU asc. node 3145 Nov 06 07:01 2° \textstyle 05'33 minimum elong 3146 Oct 14 23:27 21° \textstyle 23'20 6 -2° 26'56 morning rise 3145 Nov 09 05:33 1° \textstyle 17'04 morning rise 3146 Oct 21 09:05 16° \textstyle 20'13 morning max el 3145 Nov 15 20:58 4° \textstyle 15'06 18° 30'52 asc. node 3146 Oct 22 10:12 15° \textstyle 23'75' 9 asc. node 3146 Oct 24 00:28 15° \textstyle 24'31 morning set 3145 Dec 03 05:41 0° \textstyle 7 \textstyle 26' \textstyle 29' \textstyle	•				retrograde			
inferior conj	•			0.66135 ATT	retrograde			
minimum elong as as a se. node as a se. nod					avaning sat			
asc. node 3145 Nov 04 13:09 3°IL18'09 inferior conj 3146 Oct 14 23:27 21°♣32'06 -2°26'56 morning rise 3145 Nov 06 07:01 2°IL05'33 minimum elong 3146 Oct 15 03:29 21°♣20'58 2°25'24 direct 3145 Nov 09 05:33 1°IL17'04 morning rise 3146 Oct 21 09:05 16°♣01'13 morning max el 3145 Nov 15 20:58 4°IL55'06 18°30'52 asc. node 3146 Oct 22 10:12 15°♣37'59 asc. node 3146 Oct 24 00:28 15°♣24'31 morning set 3145 Dec 03 05:41 0° 🛪 direct 3146 Oct 30 12:21 18°♣25'23 18°02'02 desc. node 3145 Dec 12 02:41 14°🛪09'13 morning set 3145 Dec 12 02:41 14°🛪09'13 morning set 3146 Nov 07 18:40 0°IL morning set 3146 Nov 17 06:24 15°IL37'18 superior conj 3145 Dec 21 20:12 29°🛪29'20 -1°02'47 asc. node 3146 Nov 25 23:26 0° 🛪 minimum elong 3145 Dec 21 12:31 28°🛪59'10 1°01'51 desc. node 3146 Nov 28 23:40 4°🛪52'14 asc. node 3146 Nov 28 23:40 4°🛪52'14 sevening rise 3146 Jan 06 19:02 24°♂35'59 minimum elong 3146 Dec 01 04:26 8° 🛪23'43 -0°14'56 evening rise 3146 Jan 10 04:46 0° ≈ behind sun begin 3146 Nov 30 22:04 7° 🛪58'16					Č			0.64845.411
morning rise direct 3145 Nov 06 07:01 2°M05'33 minimum elong direct 3146 Oct 15 03:29 21°\textit{\Omega}20'58 2°25'24 direct 3145 Nov 09 05:33 1°M17'04 morning rise 3146 Oct 21 09:05 16°\textit{\Omega}01'13 morning max el 3145 Nov 15 20:58 4°M55'06 18°30'52 asc. node 3146 Oct 22 10:12 15°\textit{\Omega}37'59 morning set 3145 Dec 03 05:41 0°\textit{\sigma} direct 3146 Oct 24 00:28 15°\textit{\Omega}24'31 morning set 3145 Dec 12 02:41 14°\textit{\sigma}09'13 morning set 3146 Nov 07 18:40 0°\textit{\sigma} morning set 3146 Nov 07 18:40 0°\textit{\sigma} morning set 3146 Nov 17 06:24 15°\textit{\sigma}37'18 superior conj 3145 Dec 21 20:12 29°\textit{\sigma}29'20 -1°02'47 minimum elong 3145 Dec 22 10:00 0°\textit{\sigma}29'20 -1°02'47 superior conj 3146 Nov 28 23:40 4°\textit{\sigma}52'14 superior conj 3145 Dec 22 10:00 0°\textit{\sigma}29'23' 1.45210 AU superior conj 3146 Dec 01 04:26 8°\textit{\sigma}23'43 -0°14'56 evening rise 3146 Jan 06 19:02 24°\textit{\sigma}35'59 minimum elong 3146 Nov 30 22:04 7°\textit{\sigma}58'16' 10°14'11 behind sun begin 3146 Nov 30 22:04 7°\textit{\sigma}58'16' 10°14'11 10°\textit{\sigma}14'11 10°\textit{\sigma}14'\textit{\sigma}14'\tex	•			1 2347				
morning max el 3145 Nov 09 05:33 1° 1 10 17 104 morning rise 3146 Oct 21 09:05 16° 113 morning max el 3145 Nov 15 20:58 4° 115 106 18° 30' 52 asc. node 3146 Oct 22 10:12 15° 15° 159 13 145 Dec 03 05:41 0° 17 direct 3146 Oct 24 00:28 15° 124' 31 morning set 3145 Dec 06 00:25 4° 126' 47 morning max el 3146 Oct 30 12:21 18° 15° 124' 31 18° 125' 23 18° 02' 02 desc. node 3145 Dec 12 02:41 14° 127 13 14° 127 13 146 Nov 07 18:40 0° 11 15° 11 15° 113 146 Nov 07 18:40 0° 11 18° 113 146 Nov 07 18:40 0° 11 18° 113 146 Nov 07 18:40 0° 11 18° 113 146 Nov								
morning max el 3145 Nov 15 20:58 4° 1 5° 106 18° 30' 52 asc. node 3146 Oct 22 10:12 15° 237' 59 direct 3146 Oct 24 00:28 15° 24' 31 morning set 3145 Dec 06 00:25 4° ₹26' 47 morning max el 3146 Oct 30 12:21 18° 252' 23 18° 02' 02 desc. node 3145 Dec 12 02:41 14° ₹09' 13 morning set 3146 Nov 07 18:40 0° 1 morning set 3146 Nov 17 06:24 15° 1 3146 Nov 25 23:26 0° ₹ morning max el 3145 Dec 21 12:31 28° ₹25' 10 1° 01' 51 desc. node 3146 Nov 28 23:40 4° ₹25' 14 morning max el 3146 Dec 01 04:26 8° ₹23' 43 -0° 14' 56 evening rise 3146 Jan 10 04:46 0° ≈ superior conj 3146 Nov 30 22:04 7° ₹58' 16 set in inimum elong 3146 Dec 01 02:35 8° ₹16' 21 0° 14' 14 behind sun begin 3146 Nov 30 22:04 7° ₹58' 16	-				Č			2 23 24
morning set 3145 Dec 03 05:41 0° 🖈 direct 3146 Oct 24 00:28 15° \(\overline{\Pm\chi2}\) 24'31 desc. node 3145 Dec 06 00:25 4° \(\verline{\Pm\chi2}\) 26'47 morning max el 3146 Oct 30 12:21 18° \(\overline{\Pm\chi2}\) 52'23 18°02'02 desc. node 3145 Dec 12 02:41 14° \(\verline{\Pm\chi2}\) 09'13 morning set 3146 Nov 07 18:40 0° \(\overline{\Pm\chi2}\) 15° \(\overline{\Pm\chi2}\) 3146 Nov 25 23:26 0° \(\verline{\Pm\chi2}\) 15° \(\overline{\Pm\chi2}\) 3145 Dec 21 12:31 28° \(\verline{\Pm\chi2}\) 59'10 1°01'51 desc. node 3146 Nov 28 23:40 4° \(\verline{\Pm\chi2}\) 52'14 minimum elong 3145 Dec 22 04:01 0° \(\overline{\Pm\chi2}\) 3145 Dec 22 10:00 0° \(\overline{\Pm\chi2}\) 1.45210 AU superior conj 3146 Dec 01 04:26 8° \(\verline{\Pm\chi2}\) 23'43 -0°14'56 evening rise 3146 Jan 10 04:46 0° \(\overline{\Pm\chi2}\) 24° \(\overline{\Pm\chi3}\) 35'59 minimum elong 3146 Nov 30 22:04 7° \(\verline{\Pm\chi2}\) 58'16				10020152	_			
morning set 3145 Dec 06 00:25 4°\$\times 26'47 \ morning max el 3146 Oct 30 12:21 18°\$\times 52'23 18°02'02 desc. node 3145 Dec 12 02:41 14°\$\times 09'13 \ morning set 3146 Nov 07 18:40 0°\$\times 1.50\$\times 1.	morning max er			16 3032				
desc. node 3145 Dec 12 02:41 14° \$\times 09'13\$ morning set 3146 Nov 07 18:40 0° \$\times 15° \$\times 13'18\$ superior conj 3145 Dec 21 20:12 29° \$\times 29'20 -1°02'47 minimum elong 3145 Dec 21 12:31 3146 Nov 25 23:26 0° \$\times 14' \$\times 15' \$\times 13'18\$ 3146 Nov 25 23:26 0° \$\times 14' \$\times 15' \$\times 13'18\$ max. Earth dist. 3145 Dec 22 04:01 0° \$\times 15' \$\t								1000202
morning set 3146 Nov 17 06:24 15°NL37'18 superior conj 3145 Dec 21 20:12 29°ズ29'20 -1°02'47 3146 Nov 25 23:26 0°ズ minimum elong 3145 Dec 21 12:31 28°ズ59'10 1°01'51 desc. node 3146 Nov 28 23:40 4°ズ52'14 3145 Dec 22 04:01 0°풉 max. Earth dist. 3145 Dec 22 10:00 0°♂3'27 1.45210 AU superior conj 3146 Dec 01 04:26 8°ズ23'43 -0°14'56 evening rise 3146 Jan 06 19:02 24°♂35'59 minimum elong 3146 Dec 01 02:35 8°ズ16'21 0°14'41 3146 Jan 10 04:46 0°≈ behind sun begin 3146 Nov 30 22:04 7°ズ58'16	•				morning max el			18-02-02
superior conj 3145 Dec 21 20:12 29° **Z29'20 -1°02'47 3146 Nov 25 23:26 0° **Z' 12:31 28° **Z'59'10 1°01'51 desc. node 3146 Nov 28 23:40 4° *Z'52'14 3145 Dec 22 04:01 0° **Z' 1.45210 AU superior conj 3146 Dec 01 04:26 8° *Z'23'43 -0°14'56 evening rise 3146 Jan 06 19:02 24° *Z'35'59 minimum elong 3146 Dec 01 02:35 8° *Z'16'21 0°14'41 3146 Jan 10 04:46 0° ** behind sun begin 3146 Nov 30 22:04 7° *Z'58'16 ** **S'58'16 *	desc. node	3143 Dec 12 02:41	14 X '09 13					
minimum elong 3145 Dec 21 12:31 28° 柔59'10 1°01'51 desc. node 3146 Nov 28 23:40 4° 柔52'14 max. Earth dist. 3145 Dec 22 10:00 0° 云23'27 1.45210 AU superior conj 3146 Dec 01 04:26 8° 柔23'43 -0°14'56 evening rise 3146 Jan 06 19:02 24° 云35'59 minimum elong 3146 Dec 01 02:35 8° ズ16'21 0°14'41 3146 Jan 10 04:46 0° ※ behind sun begin 3146 Nov 30 22:04 7° ズ58'16		2145 D 21 20 12	200 70000	1902147	morning set			
3145 Dec 22 04:01 0° ₹					, ,			
max. Earth dist. 3145 Dec 22 10:00 0°₹23'27 1.45210 AU superior conj 3146 Dec 01 04:26 8°₹23'43 -0°14'56 evening rise 3146 Jan 06 19:02 24°₹35'59 minimum elong 3146 Dec 01 02:35 8°₹16'21 0°14'41 3146 Jan 10 04:46 0°≋ behind sun begin 3146 Nov 30 22:04 7°₹58'16	minimum elong			1*01/51	desc. node	5146 Nov 28 23:40	4°×'52'14	
evening rise 3146 Jan 06 19:02 24°₹35′59 minimum elong 3146 Dec 01 02:35 8°₹16′21 0°14′41 3146 Jan 10 04:46 0°≈ behind sun begin 3146 Nov 30 22:04 7°₹58′16	pp111			1.45010 / **		2146 B 21 212	00 3000	0014456
3146 Jan 10 04:46 0°≈ behind sun begin 3146 Nov 30 22:04 7° ₹758'16				1.45210 AU				
	evening rise				_			0~14'41
greatest brilliancy 3146 Jan 16 02:52 $9^{\circ} \approx 21'02$ -0.8m behind sun end 3146 Dec 01 07:06 $8^{\circ} \times 34'24$				0.0	_			
	greatest brilliancy	3146 Jan 16 02:52	9°≈21'02	-0.8m	behind sun end	3146 Dec 01 07:06	8° × '34'24	

superior conj	3148 Oct 22 21:11	29° ≏ 48'18	1°04'52	asc. node	3149 Sep 12 01:19	1°M)34'46	
minimum elong	3148 Oct 23 01:31	0° ጤ 07'17	1°04'20	morning set	3149 Sep 26 05:10	25° m 08'48	
	3148 Oct 22 23:51	0°M₊			3149 Sep 28 17:50	0∘ ⊽	
max. Earth dist.	3148 Oct 30 10:37	12°M40'14	1.42344 AU				
desc. node	3148 Nov 01 17:42	16°M26'08		superior conj	3149 Oct 05 06:22	12° ≏ 19'00	1°28'15
evening rise	3148 Nov 05 14:30	22°M38'41		minimum elong	3149 Oct 05 09:49	12° ≏ 34'54	1°27'55
	3148 Nov 10 07:31	0° ∡ ¹		max. Earth dist.	3149 Oct 12 17:47	25° ≙ 40'17	1.40393 AU
	3148 Dec 01 06:18	8°0			3149 Oct 15 06:42	0° M	
evening max el	3148 Dec 08 04:12	8° る 03'23	22°14'29	evening rise	3149 Oct 17 03:40	3° M 07'57	
retrograde	3148 Dec 17 16:44	13° る 43'16		desc. node	3149 Oct 19 14:45	7° I L10'04	
evening set	3148 Dec 22 05:11	11° る 54'04			3149 Nov 03 14:35	0° ∡ ¹	
asc. node	3148 Dec 22 03:32	11° る 57'26		evening max el	3149 Nov 20 18:47	21° ∡ ³39′04	23°34'12
inferior conj	3148 Dec 27 13:39	5° る 33'49	1°45'48	retrograde	3149 Dec 01 10:16	27° ∡ ¹56'34	
minimum elong	3148 Dec 27 11:31	5° る 41'12	1°45'02	evening set	3149 Dec 06 11:29	25° ∡ 50′54	
min. Earth dist.	3148 Dec 27 12:18	5° る 38'30	0.67917 AU	asc. node	3149 Dec 09 00:34	23° ∡ 12′21	
	3149 Jan 01 01:28	30°₽ ⋌ 7		inferior conj	3149 Dec 11 21:11	19° ∡ ¹26′26	0°57'50
morning rise	3149 Jan 01 17:43	29° ∡ ¹23'12		minimum elong	3149 Dec 11 19:52	19° ∡ ³30′56	0°57'18
direct	3149 Jan 06 11:08	27° ∡ ¹24'34		min. Earth dist.	3149 Dec 11 09:02	20° ∡ ¹07'58	0.67860 AU
	3149 Jan 12 14:22	o°ප		morning rise	3149 Dec 17 04:13	13° ∡ 19'53	
morning max el	3149 Jan 15 23:01	3° ප 00'10	22°20'52	direct	3149 Dec 21 07:25	11° ∡ ⁴44'05	
desc. node	3149 Jan 28 16:57	18° පි 51'40		morning max el	3149 Dec 29 15:59	16° ∡ ³34'22	20°59'13
	3149 Feb 05 09:58	0° ≈			3150 Jan 09 10:39	0° ට	
morning set	3149 Feb 18 11:33	20° ≈ 20′00		desc. node	3150 Jan 15 14:01	8° る 49'17	
max. Earth dist.	3149 Feb 23 17:19	29° ≈ 01'04	1.40727 AU	morning set	3150 Jan 28 19:36	28° る 55'14	
	3149 Feb 24 07:14	0° ∀			3150 Jan 29 12:07	0° ≈	
				max. Earth dist.	3150 Feb 05 20:29	11° ≈ 44'42	1.42689 AU
superior conj	3149 Mar 03 12:16	12°) (34′49	-1°59'59				
minimum elong	3149 Mar 03 15:44	12°) 50′21	1°59'47	superior conj	3150 Feb 12 21:30	23° ≈ 27'27	-2°06'32
	3149 Mar 12 22:57	0 ° Υ		minimum elong	3150 Feb 12 21:10	23° ≈ 26′04	2°06'32
evening rise	3149 Mar 13 16:52	1° Y 24'09			3150 Feb 16 16:54	0°) €	
asc. node	3149 Mar 20 02:50	13° Ƴ 12'11		evening rise	3150 Feb 24 13:20	13°) €53'33	
evening max el	3149 Mar 29 21:57	27° Ƴ 19'15	18°19'09		3150 Mar 05 18:35	0° Y	
	3149 Apr 02 12:14	0° ႘		asc. node	3150 Mar 06 23:52	1° Y 57'12	
retrograde	3149 Apr 06 03:01	0° 8 54'36		evening max el	3150 Mar 13 09:00	10° Y 20′31	18°07'13
evening set	3149 Apr 08 13:41	0° 8 30'50		retrograde	3150 Mar 19 23:43	13° Y '44'12	
	3149 Apr 09 20:58	30° Ŗ ♈		evening set	3150 Mar 22 16:17	13° Ƴ 10′27	
inferior conj	3149 Apr 15 17:59	25° Ƴ 51'40	2°45'38	inferior conj	3150 Mar 29 05:17	8° Y 10'51	3°24'48
minimum elong	3149 Apr 15 21:37	25° Ƴ 43'56	2°44'48	minimum elong	3150 Mar 29 07:27	8° Y 05'33	3°24'32
min. Earth dist.	3149 Apr 19 04:23	22° Y 58'30	0.59116 AU	min. Earth dist.	3150 Apr 01 08:36	5° Y ′08′00	0.61288 AU
morning rise	3149 Apr 23 02:51	20° Y 15′28		morning rise	3150 Apr 04 20:48	2° Y 15'54	
desc. node	3149 Apr 26 16:08	18° Ƴ 49'37			3150 Apr 10 13:16	30°₽ 升	
direct	3149 Apr 29 09:07	18° Ƴ 29'49		direct	3150 Apr 11 15:41	29° ¥ 56′25	
morning max el	3149 May 13 18:13	26° Y 16′26	27°14'26		3150 Apr 12 18:26	0° Y	
	3149 May 17 06:22	0° ႘		desc. node	3150 Apr 13 13:12	0° Y 06'40	
	3149 Jun 06 03:09	Π $^{\circ}0$		morning max el	3150 Apr 25 20:47	7° Ƴ 52'51	27°48'07
morning set	3149 Jun 13 12:47	14° Ⅱ 37'50			3150 May 12 17:44	0° ႘	
asc. node	3149 Jun 16 02:06	20° Ⅱ 03'09		morning set	3150 May 28 17:31	29° 8 06'36	
					3150 May 29 03:53	Π $^{\circ}0$	
superior conj	3149 Jun 20 15:01	29° Ⅲ 58′10	0°46'13	asc. node	3150 Jun 02 23:08	10° Ⅱ 10′54	
minimum elong	3149 Jun 20 13:09	29° ∏ 47'54	0°45'51	max. Earth dist.	3150 Jun 03 16:34	11° Ⅱ 45'27	1.32264 AU
max. Earth dist.	3149 Jun 20 06:08	29° ∏ 09'12	1.32087 AU				
	3149 Jun 20 15:21	0 \circ \odot		superior conj	3150 Jun 05 01:42	14° Ⅱ 46'17	0°22'02
evening rise	3149 Jun 27 11:18	14° © 52'02		minimum elong	3150 Jun 05 00:42	14° Ⅱ 40′50	0°21'49
	3149 Jul 05 01:21	$0^{\circ}\Omega$		evening rise	3150 Jun 11 22:28	29° Ⅱ 42'23	
desc. node	3149 Jul 23 15:25	27° Ω 35′21			3150 Jun 12 01:47	0°ಅ	
	3149 Jul 25 23:50	0° m			3150 Jun 28 15:51	$0 {\circ} \Omega$	
evening max el	3149 Jul 26 06:36	0° Mp 16′12	26°13'27	evening max el	3150 Jul 07 23:01	11° Ω 12'43	24°53'15
retrograde	3149 Aug 09 06:04	7° ™ 26′18		desc. node	3150 Jul 10 12:27	13° Ω 28'36	
evening set	3149 Aug 15 17:29	5° Mp 43′32		retrograde	3150 Jul 21 21:57	18° Ω 16'55	
min. Earth dist.	3149 Aug 19 19:24	3° m 08'09	0.59233 AU	evening set	3150 Jul 27 05:12	17° Ω 12'57	
inferior conj	3149 Aug 23 02:22	0° ™ 38′18	-4°54'39	min. Earth dist.	3150 Aug 01 10:28	14° Ω 25′50	0.57260 AU
minimum elong	3149 Aug 23 06:00	0°m/31'22	4°54'16	inferior conj	3150 Aug 04 08:48	12° Ω 29'42	-5°04'41
	3149 Aug 23 22:35	30° R Ω		minimum elong	3150 Aug 04 07:39	12° Ω 31'36	5°04'40
morning rise	3149 Aug 30 20:41	26° Ω 07'54		morning rise	3150 Aug 12 12:41	8° Ω 21'11	
direct	3149 Sep 02 07:08	25° Ω 47'29		direct	3150 Aug 15 02:54	8° Ω 02'01	
morning max el	3149 Sep 10 04:14	29° Ω 35′11	18°25'26	morning max el	3150 Aug 24 04:51	12° Ω 17′13	19°13'42
	3149 Sep 10 14:21	0° m		asc. node	3150 Aug 29 22:23	19° Ω 13'54	

morning set	3150 Sep 05 07:35 3150 Sep 10 04:40	0° т) 9° т) 27'30		morning rise direct	3151 Jul 24 07:29 3151 Jul 27 03:44	19°5541'48 19°5522'10	
				morning max el	3151 Aug 06 18:18	24° © 17'24	20°23'31
superior conj	3150 Sep 18 09:14	25° m 41'30	1°41'03		3151 Aug 11 18:52	0 \circ Ω	
minimum elong	3150 Sep 18 10:57	25° m 49'53	1°40'57	asc. node	3151 Aug 16 19:26	7° Ω 39'23	
	3150 Sep 20 15:02	0∘ ⊽		morning set	3151 Aug 25 10:16	24° Ω 04'15	
max. Earth dist.	3150 Sep 24 21:38	7° Ω 57'29	1.38319 AU		3151 Aug 28 07:25	0° ™	
evening rise	3150 Sep 28 16:30	14° Ω 42'31			2151 0 02 00 51	00 m 41155	1044155
desc. node	3150 Oct 06 11:46	27° Ω 46'21		superior conj	3151 Sep 02 00:51	9° Mp 41'57	1°44'55
	3150 Oct 07 21:19	0°M 0°. 7		minimum elong	3151 Sep 02 00:53	9° Mp 42'07	1°44'56
avanina may al	3150 Oct 29 09:30	0°⊀ 5°⊀18'36	24952122	max. Earth dist.	3151 Sep 07 04:02 3151 Sep 11 02:33	19° Mp 51'36 27° Mp 16'41	1.36367 AU
evening max el retrograde	3150 Nov 03 07:19 3150 Nov 14 23:49	12° × 1830	24 32 22	evening rise	3151 Sep 11 02.33 3151 Sep 12 14:24	2/ اللا1041 0° <u>Ω</u>	
evening set	3150 Nov 20 14:49	9° x ⁷ 45'00		desc. node	3151 Sep 12 14:24 3151 Sep 23 08:47	0 = 18° £ 10'22	
min. Earth dist.	3150 Nov 25 04:16	4° √ 35'55	0.67457 AU	desc. flode	3151 Oct 01 06:29	0°M	
asc. node	3150 Nov 25 21:36	3° ∡ 38'41	0.07437710	evening max el	3151 Oct 16 19:39	19°M00'09	26°01'31
inferior conj	3150 Nov 26 03:02	3°×720'46	0°04'39	retrograde	3151 Oct 29 08:24	26°M06'52	20 0131
minimum elong	3150 Nov 26 02:55	3°×21'09	0°04'36	evening set	3151 Nov 04 13:21	23°M32'51	
transit middle	3150 Nov 26 02:55	3°×21'09	0°04'36	min. Earth dist.	3151 Nov 08 19:30	18°M59'12	0.66720 AU
transit begin	3150 Nov 26 00:16	3° х 29′54		inferior conj	3151 Nov 10 05:20	17° M 13'32	
transit end	3150 Nov 26 05:33	3° ҂ 12'24		minimum elong	3151 Nov 10 06:43	17° M 09'11	0°51'58
	3150 Nov 28 18:55	30°RM		asc. node	3151 Nov 12 18:40	14° M 10'52	
morning rise	3150 Dec 01 15:09	27°M20'31		morning rise	3151 Nov 16 00:29	11°M22'18	
direct	3150 Dec 05 05:41	26°M05'37		direct	3151 Nov 19 04:18	10°M25'06	
	3150 Dec 12 08:47	0° ∡ ¹		morning max el	3151 Nov 26 00:41	14°M13'03	18°54'55
morning max el	3150 Dec 12 16:39	0° ∡ 19'27	19°49'37		3151 Dec 07 18:03	0° ∡ ¹	
desc. node	3151 Jan 02 11:03	29° ₰ 06'15		morning set	3151 Dec 18 00:47	15° ₹ 59'52	
	3151 Jan 03 01:08	0° ප		desc. node	3151 Dec 20 08:04	19° х 36′30	
morning set	3151 Jan 07 15:35	7° る 04'12			3151 Dec 26 23:14	5°0	
max. Earth dist.	3151 Jan 19 07:07	25° る 18'11	1.44190 AU	max. Earth dist.	3152 Jan 01 23:45	9° る 26'48	1.45052 AU
	3151 Jan 22 05:36	0° ≈					
				superior conj	3152 Jan 03 13:40	11° る 56'02	
superior conj	3151 Jan 24 04:50	3°≈10'35		minimum elong	3152 Jan 03 04:35	11° る 20'13	1°26'10
minimum elong	3151 Jan 23 22:44	2° ≈ 45'53	1°56'09		3152 Jan 14 22:10	0° ≈	
evening rise	3151 Feb 06 15:04	25°≈31'42		evening rise	3152 Jan 18 18:17	6°≈12'15	
ī	3151 Feb 09 06:00	0°) {			3152 Feb 02 18:41	0°){	10020155
asc. node	3151 Feb 21 20:55	20°) €05'20	10014122	evening max el	3152 Feb 08 09:24	7°) €03'17	18°39'55
evening max el	3151 Feb 24 21:45	23°) € 37'45 27°) € 03'45	18°14'23	asc. node	3152 Feb 08 17:58	7°) 24'40 10°) 43'53	
retrograde evening set	3151 Mar 03 08:15 3151 Mar 06 06:27	26° X 18'47		retrograde evening set	3152 Feb 15 00:26 3152 Feb 18 04:37	9° H 46'47	
inferior conj	3151 Mar 12 08:02	20° X 59'36	3°39'08	inferior conj	3152 Feb 18 04.37 3152 Feb 23 22:11	4°) €09'34	3°34'55
minimum elong	3151 Mar 12 08:20	20°) 58'45		minimum elong	3152 Feb 23 20:59	4°) 13'12	
min. Earth dist.	3151 Mar 14 21:43	18° H 10'28	0.63331 AU	min. Earth dist.	3152 Feb 25 20:12	1° ¥ 50'36	0.65052 AU
morning rise	3151 Mar 18 09:15	14°) 54'23	0.03331710	mm. Darm dist.	3152 Feb 27 11:09	30°R≈	0.03032710
direct	3151 Mar 25 07:14	12°) (11'50		morning rise	3152 Feb 29 12:53	27°≈59'01	
desc. node	3151 Mar 31 10:14	13° ¥ 59'32		direct	3152 Mar 07 05:50	25° ≈ 07'52	
morning max el	3151 Apr 08 04:07	20°) €09'07	27°44'14	desc. node	3152 Mar 17 07:16	29° ≈ 53'53	
•	3151 Apr 16 14:54	0° Υ			3152 Mar 17 10:09	0° ∀	
	3151 May 05 17:44	0°8		morning max el	3152 Mar 20 13:43	2°) 55′56	27°06'18
morning set	3151 May 12 15:47	13° 8 12'53			3152 Apr 09 22:19	0° Y	
max. Earth dist.	3151 May 17 21:32	24° 8 01'13	1.32868 AU	morning set	3152 Apr 25 04:37	26° Y 47'16	
					3152 Apr 26 20:07	9° 8	
superior conj	3151 May 20 09:29	29° 8 21'33	-0°04'42	max. Earth dist.	3152 Apr 29 17:25	5° 8 47'01	1.33922 AU
minimum elong	3151 May 20 09:43	29° 8 22'48	0°04'39				
behind sun begin	3151 May 20 04:38	28° 8 55'28		superior conj	3152 May 03 12:21	13° 8 37'18	
behind sun end	3151 May 20 14:48	29° 8 50'10		minimum elong	3152 May 03 14:03	13° 8 46'13	0°32'38
asc. node	3151 May 20 20:12	0° Ⅱ 19'18		asc. node	3152 May 06 17:15	20° 8 23'51	
	3151 May 20 16:38	0° П		evening rise	3152 May 10 20:53	29° 8 10'44	
evening rise	3151 May 27 10:17	14° ∏ 30'48			3152 May 11 06:19	0° Ⅱ	
avani 1	3151 Jun 04 04:55	0°55	22010107	avanin	3152 May 29 03:18	0°©	21042120
evening max el	3151 Jun 19 12:22	21°5641'29	23-18.00	evening max el	3152 May 31 06:01	2°513'13	21°43'29
desc. node	3151 Jun 27 09:27 3151 Jul 03 01:04	27°514'31 28°527'05		retrograde desc. node	3152 Jun 12 16:47 3152 Jun 13 06:28	8° © 21'09 8° © 20'24	
retrograde evening set	3151 Jul 03 01:04 3151 Jul 06 20:10	28°927'05 27°955'35		evening set	3152 Jun 13 06:28 3152 Jun 15 06:05	8°906'28	
min. Earth dist.	3151 Jul 06 20:10 3151 Jul 13 22:06		0.55716 AU	inferior conj	3152 Jun 15 06:05 3152 Jun 24 15:25	4°906'28	-3°10'46
inferior conj	3151 Jul 15 19:18	23°S35'26		minimum elong	3152 Jun 24 07:27		3°08'20
minimum elong	3151 Jul 15 12:37	23°545'20		min. Earth dist.	3152 Jun 24 07:27 3152 Jun 24 09:04	4°9513'19	
		5 _ 20				. = .5 .7	, 20 110

minimum elong	3154 May 15 18:57	25° 8 01'59	0°39'14	minimum elong	3155 Apr 27 00:42	6° 8 15'51	2°08'07
desc. node	3154 May 18 00:32	23° 8 33'16	0 3, 1.	min. Earth dist.	3155 Apr 30 06:27	3° 8 46'42	0.57921 AU
min. Earth dist.	3154 May 18 12:17	23° 8 14'18	0.56145 AU	morning rise	3155 May 04 16:10	1° 8 02'30	
morning rise	3154 May 24 04:14	20° 8 17'11		desc. node	3155 May 04 21:35	0° 8 56'07	
direct	3154 May 28 23:24	19° 8 24'18			3155 May 07 11:55	30° Ŗ ♈	
morning max el	3154 Jun 12 03:42	26° 8 37'25	25°14'29	direct	3155 May 10 11:27	29° Ƴ 37'20	
-	3154 Jun 15 09:26	$\Pi^{\circ}0$			3155 May 13 11:53	0°8	
	3154 Jul 04 13:06	0°€		morning max el	3155 May 24 20:30	7° 8 15'01	26°38'42
asc. node	3154 Jul 07 10:33	5° © 52'18		•	3155 Jun 10 19:53	$\Pi^{\circ}0$	
morning set	3154 Jul 08 18:52	8°\$341'40		morning set	3155 Jun 23 05:17	23° Ⅲ 30′55	
				asc. node	3155 Jun 24 07:37	25° Ⅲ 50′20	
superior conj	3154 Jul 15 17:51	23° © 47'30	1°17'31		3155 Jun 26 06:00	0 \circ \odot	
minimum elong	3154 Jul 15 15:29	23° © 34'33	1°17'10				
max. Earth dist.	3154 Jul 16 23:06	26° © 27'08	1.32606 AU	superior conj	3155 Jun 30 05:32	8°9544'00	0°58'44
	3154 Jul 18 14:22	$0^{\circ}\Omega$		minimum elong	3155 Jun 30 03:21	8°532'00	0°58'19
evening rise	3154 Jul 22 20:50	9° Ω 00'56		max. Earth dist.	3155 Jun 30 10:01	9° © 08'46	1.32167 AU
	3154 Aug 02 23:14	O° Mp		evening rise	3155 Jul 07 03:07	23°5641'18	
desc. node	3154 Aug 13 23:49	16° Mp 56'05			3155 Jul 10 04:48	$0^{\circ}\Omega$	
evening max el	3154 Aug 24 04:46	28° Mp 47'30	27°21'51		3155 Jul 27 22:26	O° Mp	
	3154 Aug 25 12:29	0∘ ত		desc. node	3155 Jul 31 20:52	5° ™ 02'53	
retrograde	3154 Sep 06 23:48	6° ഫ 03'21		evening max el	3155 Aug 06 08:31	10° m ∕57'45	26°47'46
evening set	3154 Sep 14 04:25	ვ° ჲ 35'09		retrograde	3155 Aug 20 07:02	18° m 09'35	
min. Earth dist.	3154 Sep 17 18:46	0° ჲ 41'05	0.62424 AU	evening set	3155 Aug 27 04:12	16° Mp 07′20	
	3154 Sep 18 12:36	30°R.₩		min. Earth dist.	3155 Aug 30 22:36	13° m 29'42	0.60422 AU
inferior conj	3154 Sep 20 16:39	27° m 56'51	-3°48'42	inferior conj	3155 Sep 03 04:19	10° m 49'33	-4°35'42
minimum elong	3154 Sep 20 22:19	27° Mp 43'31	3°47'07	minimum elong	3155 Sep 03 09:24	10° m 39'01	4°34'47
morning rise	3154 Sep 27 17:48	22° m 51'33		morning rise	3155 Sep 10 16:31	6° Mp 05′34	
direct	3154 Sep 30 03:30	22° m 25'42		direct	3155 Sep 13 01:48	5° ™ 43'48	
asc. node	3154 Oct 03 09:45	23° Mp 14'40		asc. node	3155 Sep 20 06:48	9° ™ 11'50	
morning max el	3154 Oct 06 22:24	25° m 53'15	17°51'40	morning max el	3155 Sep 20 10:53	9° ™ 21'37	18°07'16
	3154 Oct 10 10:01	0∘ ত			3155 Oct 03 21:33	0∘ ত	
morning set	3154 Oct 22 23:04	20° £ 52'56		morning set	3155 Oct 06 06:35	4° £ 25'53	
	3154 Oct 28 02:04	0°M					
				superior conj	3155 Oct 15 23:24	22° ≏ 19'52	1°16'10
superior conj	3154 Nov 03 03:00	10°M27'16	0°46'08	minimum elong	3155 Oct 16 03:33		1°15'42
minimum elong	3154 Nov 03 06:56	10°M43'54	0°45'37		3155 Oct 20 07:58	0°M₊	
desc. node	3154 Nov 09 23:07	21°M48'49		max. Earth dist.	3155 Oct 23 14:42	5°M35'39	1.41544 AU
max. Earth dist.	3154 Nov 10 04:39	22°M11'21	1.43304 AU	desc. node	3155 Oct 27 20:10	12°M35'08	
	3154 Nov 15 01:47	0°⊀		evening rise	3155 Oct 28 21:39	14°MJ18'21	
evening rise	3154 Nov 17 21:03	4° ∡ ²23'39			3155 Nov 07 23:54	0° ∡	
	3154 Dec 05 00:24	0°ಕ			3155 Nov 30 08:38	0°₹	
evening max el	3154 Dec 18 18:46	17° る 35'23	21°30'29	evening max el	3155 Dec 01 11:41	1° る 10'05	22°48'17
retrograde	3154 Dec 27 16:31	22° ろ 52'58		retrograde	3155 Dec 11 11:45	7° る 06'19	
asc. node	3154 Dec 30 09:02	22°る13'26		evening set	3155 Dec 16 05:25	5°る10'21	
evening set	3154 Dec 31 22:11	21°る13'21		asc. node	3155 Dec 17 06:04	4°る13'51	
inferior conj	3155 Jan 06 06:33	14°る57'14	2°10'39		3155 Dec 20 17:22	30°R.✓	100 (110
minimum elong	3155 Jan 06 04:08	15° そ 05'35	2°09'51	inferior conj	3155 Dec 21 14:15	28° ₹ 48'02	1°26'12
min. Earth dist.	3155 Jan 06 11:46	14° る 39'11	0.67786 AU	minimum elong	3155 Dec 21 12:25	28° 🖈 54'22	1°25'30
morning rise	3155 Jan 11 09:55	8° る 44'51		min. Earth dist.	3155 Dec 21 08:21	29°×708'27	0.67932 AU
direct	3155 Jan 16 11:54	6°る32'57	22011110	morning rise	3155 Dec 26 19:17	22° х 38'47	
morning max el	3155 Jan 26 17:09	12° る 37'18	23°11'10	direct	3155 Dec 31 06:38	20° ₹ 49'42	21044157
desc. node	3155 Feb 05 22:22	24°る54'14 0°≈		morning max el	3156 Jan 09 06:09	26° メ 05'03 0°る	21°44'57
	3155 Feb 09 15:26			1 1	3156 Jan 12 19:29		
	3155 Mar 01 05:32	0° ∺ 2° ∺ 11'05		desc. node	3156 Jan 23 19:24 3156 Feb 03 04:15	14° る 37'52	
morning set	3155 Mar 02 13:03		1 20496 ATT			0°≈	
max. Earth dist.	3155 Mar 06 19:10	9° ∺ 25'57	1.39486 AU	morning set max. Earth dist.	3156 Feb 10 12:08 3156 Feb 16 18:16	11°≈27'00	1.41607 AU
superior comi	2155 Mar 14 11:05	23°) €09'35	1050142	max. Earui Uist.	3156 Feb 16 18:16 3156 Feb 21 17:05	21°≈38'06 0° ₩	1.4100/ AU
superior conj minimum elong	3155 Mar 14 11:05 3155 Mar 14 15:27	23° X 09'35 23° X 29'46			5150 Feb 21 17:05	υπ	
minimum etong	3155 Mar 14 15:27 3155 Mar 18 02:44	23°π29'46 0°Υ	1 30 20	superior conj	3156 Feb 24 09:58	4°) 41′26	-2°04'28
evening rise	3155 Mar 18 02:44 3155 Mar 23 23:14	11° Υ 13'10		minimum elong	3156 Feb 24 09:58 3156 Feb 24 12:11	4° X 41'26 4° X 51'09	
asc. node	3155 Mar 28 08:22	11 γ 13 10 19° Υ 31'52		evening rise	3156 Mar 06 04:29	24°\(\chi\)08'53	2 0727
asc. Houc	3155 Apr 03 10:22	0° 8		evening rise	3156 Mar 09 09:02	24 πus 33 0°Υ	
evening max el	3155 Apr 09 04:37	7° 8 20'10	18°34'50	asc. node	3156 Mar 14 05:25	8° Υ 34'29	
retrograde	-	11° 8 08'52	10 27 27	evening max el	3156 Mar 14 03.25 3156 Mar 22 13:25	8 1 34 29 20° Υ 09'45	18°11'40
•							
evening set	3155 Apr 16 23:01			-			16 11 40
evening set inferior conj	3155 Apr 19 06:04 3155 Apr 26 20:55	10°850'04 6°823'10	2°09'11	retrograde evening set	3156 Mar 29 10:47 3156 Apr 01 00:12	23°\bar{Y}37'52 23°\bar{Y}09'53	16 11 40

infarior aoni	2156 Apr 07 21:20	18° Ƴ 21'55	2005/41		3157 Mar 22 12:57	30° ₹	
inferior conj	3156 Apr 07 21:30	18° Υ 14'50	3°05'06	i. Double died		30 KA 27° ¥ 55'33	0.62189 AU
minimum elong	3156 Apr 08 00:38			min. Earth dist.	3157 Mar 24 13:43		0.62189 AU
min. Earth dist.	3156 Apr 11 06:03	15° Y 21'44	0.60050 AU	morning rise	3157 Mar 28 00:52	24°) 54'38	
morning rise	3156 Apr 14 22:47	12° Υ 36'53		direct	3157 Apr 03 22:04	22°) €24'07	
desc. node	3156 Apr 20 18:37	10° ℃ 37'26		desc. node	3157 Apr 07 15:38	23°) €04'00 0° °	
direct	3156 Apr 21 11:49	10° Υ 36'01	25020112		3157 Apr 17 15:36		27051102
morning max el	3156 May 05 19:15	18° Y 26′53	27°33'13	morning max el	3157 Apr 18 00:13	0° Y 21'16	27°51'02
	3156 May 15 12:02	0° 8			3157 May 09 13:26	0°8	
_	3156 Jun 02 11:45	0°II		morning set	3157 May 21 15:00	22° 8 29'42	
morning set	3156 Jun 06 12:40	8° ∏ 09'05			3157 May 25 05:42	0°Щ	
asc. node	3156 Jun 10 04:40	15° ∏ 55'57		max. Earth dist.	3157 May 27 06:44	4° Ⅲ 22'08	1.32473 AU
max. Earth dist.	3156 Jun 12 21:53	21° ∏ 51'31	1.32121 AU	asc. node	3157 May 28 01:44	6° Ⅱ 04'45	
superior conj	3156 Jun 13 17:04	23° II 36'57	0°36'19	superior conj	3157 May 29 02:46	8° Ⅱ 20'36	0°10'58
minimum elong	3156 Jun 13 15:32	23° I I28'28	0°36'00	minimum elong	3157 May 29 02:15	8° Ц 17'48	0°10'51
minimum ciong	3156 Jun 16 14:43	0°95	0 30 00	behind sun begin	3157 May 28 22:27	7° I 57'08	0 1031
evening rise	3156 Jun 20 13:07	8° © 30'21		behind sun end	3157 May 29 06:03	7 П 37 08 8° П 38'28	
evening rise	3156 Jul 01 16:03	0°Ω		evening rise	3157 Jun 05 00:49	23° Ⅱ 21'14	
desc. node	3156 Jul 17 17:54	21°Ω53'20		evening rise	3157 Jun 08 05:28	0°95	
	3156 Jul 18 05:04	$21^{\circ} \Omega 20'20$	25°42'04		3157 Jun 26 21:52	0°Ω	
evening max el		22 δ (20 20 20 29° Ω 27'46	23 42 04	avanina may al	3157 Jun 29 19:24		24°13'35
retrograde	3156 Aug 01 04:44	$29 \Omega = 140$ $28^{\circ} \Omega = 01'38$		evening max el	3157 Jul	6°Ω57'36	24 13 33
evening set	3156 Aug 07 05:46		0.502/7.411	desc. node			
min. Earth dist.	3156 Aug 11 17:13	25°Ω23'24 23°Ω05'58		retrograde	3157 Jul 13 15:12	10° Ω 00'27	
inferior conj	3156 Aug 14 22:12			evening set	3157 Jul 18 07:40	9° Ω 11'35	0.56524.411
minimum elong	3156 Aug 15 00:06	23° Ω 02'31	5°03'04	min. Earth dist.	3157 Jul 24 06:04	6° Ω 14'59	
morning rise	3156 Aug 22 20:41	18° Ω 44'58		inferior conj	3157 Jul 26 19:58	4° Ω 38′22	
direct	3156 Aug 25 08:38	18° Ω 25'07		minimum elong	3157 Jul 26 16:18	4° Ω 44'08	4°56'37
morning max el	3156 Sep 02 16:40	22° Ω 23′03	18°43'19	morning rise	3157 Aug 04 03:35	0° Ω 37'49	
asc. node	3156 Sep 06 03:52	26° Ω 18'07		direct	3157 Aug 06 20:17	0° Ω 18'35	
	3156 Sep 08 18:27	0° ™		morning max el	3157 Aug 16 12:47	4° Ω 48'46	19°40'52
morning set	3156 Sep 19 01:17	18° m 31'01		asc. node	3157 Aug 24 00:56	14° Ω 18'57	
	3156 Sep 24 22:51	0∘ ⊽			3157 Sep 01 15:56	0° m)	
		_		morning set	3157 Sep 03 03:43	2° Mp 59'02	
superior conj	3156 Sep 27 16:43		1°34'52				
minimum elong	3156 Sep 27 19:28	5° ≏ 27'05	1°34'40	superior conj	3157 Sep 11 01:36	18° m 55'11	1°43'40
max. Earth dist.	3156 Oct 04 20:23	18° ≏ 18'06	1.39511 AU	minimum elong	3157 Sep 11 02:34	19° m ,00'01	1°43'39
evening rise	3156 Oct 08 20:54	25° ≏ 15'11			3157 Sep 16 19:41	0∘ ⊽	
	3156 Oct 11 17:04	0° M		max. Earth dist.	3157 Sep 17 00:55	0° ჲ 24'28	1.37459 AU
desc. node	3156 Oct 13 17:11	3° ™ 16′18		evening rise	3157 Sep 20 19:15	7° ≏ 16'40	
	3156 Oct 31 17:20	0° ∡		desc. node	3157 Sep 30 14:13	23° ≏ 48'27	
evening max el	3156 Nov 13 01:14	14° ∡ 747'47	24°08'09		3157 Oct 04 13:33	0° M	
retrograde	3156 Nov 24 03:31	21° ≯ 18'31		evening max el	3157 Oct 26 13:23	28° M28'23	25°23'14
evening set	3156 Nov 29 10:37	19° ∡ ¹06'02			3157 Oct 28 04:21	0° ∡ ¹	
asc. node	3156 Dec 03 03:06	15° ∡ 02'05		retrograde	3157 Nov 07 14:59	5° ∡ °25′28	
min. Earth dist.	3156 Dec 04 04:37	13° ∡ ³37'32	0.67731 AU	evening set	3157 Nov 13 12:08	2° ∡ 58′02	
inferior conj	3156 Dec 04 21:15	12° ∡ ′41′23	0°35'52		3157 Nov 16 09:01	30°RML	
minimum elong	3156 Dec 04 20:24	12° ∡ ⁴44'15	0°35'31	min. Earth dist.	3157 Nov 17 22:18	28° ™ 04'09	0.67189 AU
morning rise	3156 Dec 10 06:12	6° ∡ ³37′25		inferior conj	3157 Nov 19 01:47	26°M35'21	-0°19'12
direct	3156 Dec 14 03:54	5° ∡ 10'43		minimum elong	3157 Nov 19 02:17	26°M33'46	0°19'00
morning max el	3156 Dec 22 02:15	9° ∡ ⁴43'43	20°28'00	asc. node	3157 Nov 20 00:08	25°M23'46	
	3157 Jan 06 11:46	0° ප		morning rise	3157 Nov 24 16:42	20°M38'52	
desc. node	3157 Jan 09 16:26	4° る 44'25		direct	3157 Nov 28 02:24	19° M ₃32'04	
morning set	3157 Jan 19 12:10	19° る 42'20		morning max el	3157 Dec 05 06:19	23°M33'25	19°24'28
	3157 Jan 26 01:37	0° ≈			3157 Dec 10 16:03	0° ∡ 7	
max. Earth dist.	3157 Jan 29 01:17	4° ≈ 46'43	1.43401 AU	greatest brilliancy	3157 Dec 18 15:28	11° ∡ ¹28'56	-0.7m
				desc. node	3157 Dec 27 13:27	25° ₮ 07'36	
superior conj	3157 Feb 04 08:19	15° ≈ 04'28	-2°04'35	morning set	3157 Dec 29 10:49	28° ₹ °03'05	
minimum elong	3157 Feb 04 05:36	14° ≈ 53'11	2°04'30		3157 Dec 30 16:59	ರ∘ರ	
	3157 Feb 13 02:59	0° ∀		max. Earth dist.	3158 Jan 11 14:53	18° る 37'39	1.44640 AU
evening rise		6° ¥ 17′28					
	3157 Feb 16 17:28	0 /(1/20				240710155	
asc. node	3157 Feb 16 17:28 3157 Mar 01 02:26	27° ∺ 05'00		superior conj	3158 Jan 15 04:50	24°る18'55	-1°46'20
asc. node				superior conj minimum elong	3158 Jan 15 04:50 3158 Jan 14 20:45	24°る18'55 23°る46'39	
asc. node evening max el	3157 Mar 01 02:26	27°) €05'00	18°07'54				
	3157 Mar 01 02:26 3157 Mar 03 04:50	27° ℋ 05'00 0° Υ	18°07'54		3158 Jan 14 20:45	23° る 46'39	
evening max el	3157 Mar 01 02:26 3157 Mar 03 04:50 3157 Mar 06 01:31	27°¥05'00 0°Υ 3°Υ18'36	18°07'54	minimum elong	3158 Jan 14 20:45 3158 Jan 18 17:51	23° ප් 46'39 0° ≈	
evening max el retrograde	3157 Mar 01 02:26 3157 Mar 03 04:50 3157 Mar 06 01:31 3157 Mar 12 13:12	27°) 05'00 0° Υ 3° Υ 18'36 6° Υ 41'42	18°07'54 3°33'31	minimum elong	3158 Jan 14 20:45 3158 Jan 18 17:51 3158 Jan 29 09:57	23° ජ 46'39 0°≈ 17°≈31'32	
evening max el retrograde evening set	3157 Mar 01 02:26 3157 Mar 03 04:50 3157 Mar 06 01:31 3157 Mar 12 13:12 3157 Mar 15 08:13	27° χ 05'00 0° Υ 3° Υ 18'36 6° Υ 41'42 6° Υ 03'11 0° Υ 54'44		minimum elong evening rise	3158 Jan 14 20:45 3158 Jan 18 17:51 3158 Jan 29 09:57 3158 Feb 05 21:50	23° 궁 46'39 0° ≈ 17° ≈ 31'32 0° 米	

	2150 E-L 24 01-25	20° ¥ 10'48			2150 E-L 11 02.50	201/25/21	
retrograde	3158 Feb 24 01:35			evening set	3159 Feb 11 02:50	2° ★ 55'31	
evening set	3158 Feb 27 02:09	19° ¥ 20′52	2020110		3159 Feb 14 09:36	30°R≈	2020144
inferior conj	3158 Mar 04 23:55	13° ¥ 53'38	3°39'19	inferior conj	3159 Feb 16 17:53	27°≈11'24	3°28'44
minimum elong	3158 Mar 04 23:31	13° ¥ 54'45	3°39'18	minimum elong	3159 Feb 16 16:13	27°≈16'39	3°28'31
min. Earth dist.	3158 Mar 07 06:57	11°) 15′44	0.64101 AU	min. Earth dist.	3159 Feb 18 09:26	25° ≈ 07'53	0.65657 AU
morning rise	3158 Mar 10 20:10	7°) 45′22		morning rise	3159 Feb 22 05:13	20° ≈ 59'21	
direct	3158 Mar 17 16:40	4° ∺ 57'31		direct	3159 Feb 28 18:13	18° ≈ 08'21	
desc. node	3158 Mar 25 12:40	7° ¥ 52'45		desc. node	3159 Mar 12 09:40	24° ≈ 28'37	
morning max el	3158 Mar 31 09:04	12° 升 52'55	27°32'00	morning max el	3159 Mar 13 18:57	25° ≈ 49'53	26°41'35
	3158 Apr 14 02:32	0 \circ Υ			3159 Mar 17 15:04	0° ∀	
	3158 May 02 02:07	$_{0\circ}$ 8			3159 Apr 07 15:13	$0^{\circ}\Upsilon$	
morning set	3158 May 05 09:40	6° 8 24'11		morning set	3159 Apr 18 17:25	19° Ƴ 42'38	
max. Earth dist.	3158 May 10 08:22	16° 8 26'52	1.33256 AU	max. Earth dist.	3159 Apr 22 23:22	27° Ƴ 58'42	1.34501 AU
	•				3159 Apr 23 23:36	0°8	
superior conj	3158 May 13 08:42	22° 8 48'32	-0°16'34		1	_	
minimum elong	3158 May 13 09:32	22° 8 52'58	0°16'23	superior conj	3159 Apr 27 08:46	6° 8 54'31	-0°45'10
asc. node	3158 May 14 22:46	26° 8 12'10	0 10 23	minimum elong	3159 Apr 27 11:07	7° 8 06'42	
asc. node	3158 May 16 17:09	0°II		asc. node	3159 May 01 19:48	16° 8 14'23	0 4441
ovanina rias	•	8° Ⅱ 07'00			3159 May 01 19:48 3159 May 04 21:49	22° 8 41'48	
evening rise	3158 May 20 12:21			evening rise	,		
	3158 Jun 01 01:06	0°95	222245		3159 May 08 11:57	0°II	21000112
evening max el	3158 Jun 11 09:26	13° © 27'56	22°36'56	evening max el	3159 May 24 07:09	24° Ⅱ 11'09	21°06'43
desc. node	3158 Jun 21 11:56	19° © 39'16		retrograde	3159 Jun 05 02:45	29° Ⅱ 57'58	
retrograde	3158 Jun 24 13:26	20°900'48		evening set	3159 Jun 07 08:07	29° Ⅱ 46'27	
evening set	3158 Jun 27 18:05	19° © 38'21		desc. node	3159 Jun 08 08:55	29° Ⅲ 33'37	
min. Earth dist.	3158 Jul 05 17:11	16° © 09'31	0.55266 AU	inferior conj	3159 Jun 16 16:57	25° Ⅱ 48'20	-2°24'11
inferior conj	3158 Jul 06 23:15	15° © 26'40	-4°03'34	minimum elong	3159 Jun 16 10:22	25° Ⅱ 57'37	2°21'56
minimum elong	3158 Jul 06 15:13	15° © 38'07	4°01'40	min. Earth dist.	3159 Jun 17 05:00	25° Ⅲ 31'21	0.54864 AU
morning rise	3158 Jul 15 14:33	11° © 35'35		morning rise	3159 Jun 25 12:43	21° Ⅱ 48'17	
direct	3158 Jul 18 13:48	11° © 15'20		direct	3159 Jun 28 23:24	21° II 22'38	
morning max el	3158 Jul 29 21:22	16°930'40	20°59'24	morning max el	3159 Jul 11 19:03	27° II 29'15	22°34'49
morning man er	3158 Aug 09 04:02	0°Ω	20 0,2.	morning man er	3159 Jul 14 06:31	0°9	
asc. node	3158 Aug 10 21:59	3° Ω 00'48		asc. node	3159 Jul 28 19:02	22° © 13'36	
morning set	3158 Aug 18 11:12	17° Ω 41'41		asc. node	3159 Aug 01 16:17	0°Ω	
morning set	=				_	2° Ω 33'07	
	3158 Aug 24 08:56	0° m)		morning set	3159 Aug 02 21:42	2 8633 07	
	2150 4 25 21 27	20 m- 00140	1044117		2150 4 10 00 40	170 0 4 4122	1020100
superior conj	3158 Aug 25 21:27	3° Mp 08'48	1°44'17	superior conj	3159 Aug 10 00:49	17° Ω 44'23	1°38'09
minimum elong	3158 Aug 25 20:52	3° m 05'49	1°44'16	minimum elong	3159 Aug 09 23:09	17° Ω 35'30	1°38'01
max. Earth dist.	3158 Aug 30 09:41	12° m 14'58	1.35617 AU	max. Earth dist.	3159 Aug 13 03:09	24° Ω 14'40	1.34130 AU
evening rise	3158 Sep 03 12:59	20° m 12'59			3159 Aug 15 22:48	O° My	
	3158 Sep 08 22:31	0∘ ত		evening rise	3159 Aug 17 21:37	3° Mp 52′10	
desc. node	3158 Sep 17 11:14	14° ≏ 05'44			3159 Sep 01 17:25	0∘ ত	
	3158 Sep 28 12:58	0°M₊		desc. node	3159 Sep 04 08:15	4° ≙ 01'18	
evening max el	3158 Oct 09 01:37	12°ML08'15	26°26'15	evening max el	3159 Sep 21 14:03	25° ♀ 39'33	27°09'37
retrograde	3158 Oct 21 21:31	19°M20'53			3159 Sep 26 20:42	0°M	
evening set	3158 Oct 28 08:03	16°M42'35		retrograde	3159 Oct 04 22:22	2°M57'23	
min. Earth dist.	3158 Nov 01 11:06	12°M24'23	0.66298 AU	evening set	3159 Oct 11 20:03	0°M15'04	
inferior conj	3158 Nov 03 01:58	10°M26'30		evening sec	3159 Oct 12 03:33	30° ₽₽	
minimum elong	3158 Nov 03 04:04	10°M20'07		min. Earth dist.	3159 Oct 15 16:41		0.65059 AU
asc. node	3158 Nov 06 21:10	6°ML15'33	1 1049	inferior conj	3159 Oct 17 19:38	24° ⊆ 10'27	
	3158 Nov 09 00:41	4° M .40'08		minimum elong		23° £ 59'50	
morning rise				2	3159 Oct 17 23:26		2 10 23
direct	3158 Nov 12 00:29	3°M49'33	10026120	morning rise	3159 Oct 24 03:45	18° £ 37'12	
morning max el	3158 Nov 18 17:00	7°M29'59	18°36'30	asc. node	3159 Oct 24 18:13	18° £ 22'01	
	3158 Dec 04 12:59	0°⊀		direct	3159 Oct 26 20:03	17° ≏ 58'55	
morning set	3158 Dec 09 07:09	7° ∡ ³33'31		morning max el	3159 Nov 02 07:59	21° ≏ 27'43	18°05'13
desc. node	3158 Dec 14 10:29	15° ⊀ 42'33			3159 Nov 08 22:29	0°M	
	3158 Dec 23 12:19	0°ප		morning set	3159 Nov 20 09:01	18°M32'19	
					3159 Nov 27 08:17	0° ∡ ¹	
superior conj	3158 Dec 25 08:20	2° る 52'43	-1°09'33	desc. node	3159 Dec 01 07:30	6° ≯ 25'01	
minimum elong	3158 Dec 25 00:03	2° る 20'15	1°08'35				
max. Earth dist.	3158 Dec 25 08:32	2°る53'30	1.45191 AU	superior conj	3159 Dec 04 14:24	11° ∡ ′40′18	-0°22'14
evening rise	3159 Jan 10 03:09	27° る 48'07		minimum elong	3159 Dec 04 11:37	11° х 1010	
2.0	3159 Jan 11 12:14	27 ⊙ 4807		max. Earth dist.	3159 Dec 08 03:42	17° 🖈 17'49	1.45006 AU
greatest brilliancy	3159 Jan 18 15:00	0 ≈ 11°≈19'39	-0.8m	man. Latui Wist.	3159 Dec 16 06:41	0°る	1.45000 AU
greatest oriniancy		0° \	20.0111	ovonina rica		0°る 7°る16'04	
arrania 1	3159 Jan 31 21:32		1005/107	evening rise	3159 Dec 20 23:11		0.7
evening max el	3159 Feb 01 00:25	0° ₩ 07'23	18°56'07	greatest brilliancy	3160 Jan 03 07:41	27° る 42'00	-0.7m
asc. node	3159 Feb 02 20:29	1° ¥ 48'50			3160 Jan 04 20:56	0° ≈	
	0150 F 1 05 11 1	201/0					
retrograde	3159 Feb 07 19:58	3° ¥ 57'51		evening max el	3160 Jan 15 06:47	13° ≈ 37'49	19°45'35

asc. node	3160 Jan 20 17:30	17° ≈ 35'13		ovening set	3161 Jan 09 14:58	0° ≈ 33'34	
retrograde	3160 Jan 22 17:18	17 ≈5513 17°≈56'47		evening set	3161 Jan 10 07:12	0 ≈33 34 30°Ŗ る	
•	3160 Jan 26 07:46	17 ≈3047 16°≈40'51		inforior aoni	3161 Jan 14 23:45		2°33'06
evening set	3160 Jan 31 18:39	10 ≈40 31 10°≈42'05	3°05'45	inferior conj	3161 Jan 14 23:43 3161 Jan 14 21:13	24 8 22 49 24° そ 31'31	
inferior conj			3°05'15	minimum elong		24 3 3131 23° る 41'42	0.67546 AU
minimum elong	3160 Jan 31 16:17 3160 Feb 01 19:40	10° ≈ 49'57 9° ≈ 19'12		min. Earth dist.	3161 Jan 15 11:44	18° る 09'45	0.07540 AU
min. Earth dist.			0.66805 AU	morning rise	3161 Jan 20 03:18		
morning rise	3160 Feb 06 00:35	4°≈28'41		direct	3161 Jan 25 13:54	15° る 45'44	2.400.212.2
direct	3160 Feb 12 01:34	1°≈46'58	25020121	morning max el	3161 Feb 05 12:23	22° る 16'54	24°02'23
morning max el	3160 Feb 24 03:55	8° ≈ 59'48	25°28'21		3161 Feb 12 06:16	0° ≈	
desc. node	3160 Feb 27 06:42	12° ≈ 20'52		desc. node	3161 Feb 13 03:45	1° ≈ 07'59	
	3160 Mar 11 16:50	0° ∀			3161 Mar 05 00:37	0° ∀	
	3160 Mar 30 04:35	0° Υ		morning set	3161 Mar 13 04:40	13°) 34′04	
morning set	3160 Mar 31 09:39	2° Y 11'02		max. Earth dist.	3161 Mar 16 23:00	20° ¥ 10′23	1.38243 AU
max. Earth dist.	3160 Apr 04 02:50	9° Y 03'43	1.36198 AU		3161 Mar 22 07:48	$0^{\circ}\Upsilon$	
superior conj	3160 Apr 10 00:10	20° Ƴ 30'07	1012117	superior conj	3161 Mar 24 03:26	3° Y ′26'09	1020127
	*	20 γ 30 0 7 20° γ 48'54				3° Y 47'48	1°38'06
minimum elong	3160 Apr 10 03:56		1 12 40	minimum elong	3161 Mar 24 07:58	3 1 47 48 20° Υ 50'06	1 3800
	3160 Apr 14 16:57	0° 8		evening rise	3161 Apr 02 01:34		
asc. node	3160 Apr 17 16:50	6° 8 06'34		asc. node	3161 Apr 04 13:52	25° Y 44'02	
evening rise	3160 Apr 18 03:04	6° 8 58'28			3161 Apr 06 19:44	0°8	
	3160 May 01 00:41	0°Щ		evening max el	3161 Apr 18 13:23	17° 8 30'48	18°57'19
evening max el	3160 May 05 16:38	5° Ⅲ 31′05	19°52'16	retrograde	3161 Apr 27 01:15	21° 8 39'13	
retrograde	3160 May 15 18:34	10° Ⅱ 24'33		evening set	3161 Apr 29 04:40	21° 8 24'29	
evening set	3160 May 17 18:09	10° Ⅱ 14′03		inferior conj	3161 May 07 06:46	17° 8 08'21	1°21'43
desc. node	3160 May 25 05:56	7° Ⅱ 03'45		minimum elong	3161 May 07 09:44	17° 8 03'06	1°20'44
inferior conj	3160 May 26 15:24	6° Ⅱ 13′09	-0°24'36	min. Earth dist.	3161 May 10 09:54	14° 8 56'28	0.56834 AU
minimum elong	3160 May 26 14:16	6° Ⅱ 14'52	0°24'11	desc. node	3161 May 12 02:58	13° 8 50'13	
min. Earth dist.	3160 May 28 18:11	4° Ⅱ 55'42	0.55428 AU	morning rise	3161 May 15 11:40	12° 8 06'16	
morning rise	3160 Jun 04 08:17	1° Ⅱ 46′18		direct	3161 May 20 17:21	11° 8 00'59	
direct	3160 Jun 08 14:04	1° Ⅱ 06'43		morning max el	3161 Jun 04 00:43	18° 8 25'25	25°53'22
morning max el	3160 Jun 22 10:01	7° Ⅱ 58'31	24°17'41	Č	3161 Jun 13 16:50	0° I I	
5 5	3160 Jul 08 11:18	0°9			3161 Jun 30 17:50	0°9	
asc. node	3160 Jul 14 16:05	11° © 49'18		morning set	3161 Jul 01 20:51	2° © 21'34	
morning set	3160 Jul 17 09:28	17° © 28'19		asc. node	3161 Jul 01 13:08	1°9540'57	
morning sec	3160 Jul 23 04:47	0°Ω		use. Houe	3101341 01 13.00	1 0 10 57	
	3100 Jul 23 04.47	0 00		superior conj	3161 Jul 08 20:00	17° © 29'28	1°10'02
superior conj	3160 Jul 24 09:04	2° Ω 33'44	1°26'26	minimum elong	3161 Jul 08 17:39	17° © 16'36	1°09'39
minimum elong	3160 Jul 24 06:48	2° Ω 21'29	1°26'10	max. Earth dist.	3161 Jul 09 14:37	17 3 1030	1.32371 AU
max. Earth dist.	3160 Jul 24 00:48 3160 Jul 26 05:40		1.33047 AU	max. Earth dist.	3161 Jul 14 14:40	0°Ω	1.323/1 AU
		0 863443	1.33047 AU		3101 Jul 14 14.40	0 36	
		100 000154			2161 I1 15 20.12		
evening rise	3160 Jul 31 17:07	18° Ω 02'54		evening rise	3161 Jul 15 20:12	2° Ω 34'49	
-	3160 Jul 31 17:07 3160 Aug 06 21:01	0° m			3161 Jul 30 17:28	2° Ω 34'49 0° m	
desc. node	3160 Jul 31 17:07 3160 Aug 06 21:01 3160 Aug 21 05:17	0° Ту 23° Ту 25'56		desc. node	3161 Jul 30 17:28 3161 Aug 08 02:19	2° Q 34'49 0° m 12° m 06'17	05011105
desc. node	3160 Jul 31 17:07 3160 Aug 06 21:01 3160 Aug 21 05:17 3160 Aug 26 02:44	0° Mp 23° Mp 25'56 0° <u>∩</u>		desc. node evening max el	3161 Jul 30 17:28 3161 Aug 08 02:19 3161 Aug 16 08:12	2° \Omega 34'49 0° m 12° m 06'17 21° m 25'12	27°11'27
desc. node	3160 Jul 31 17:07 3160 Aug 06 21:01 3160 Aug 21 05:17 3160 Aug 26 02:44 3160 Sep 03 01:09	0° M 23° M 25'56 0° Ω 8° Ω 50'07	27°26'24	desc. node evening max el retrograde	3161 Jul 30 17:28 3161 Aug 08 02:19 3161 Aug 16 08:12 3161 Aug 30 04:31	2° \Omega 34'49 0° \Omega 12° \Omega 06'17 21° \Omega 25'12 28° \Omega 38'53	27°11'27
desc. node evening max el retrograde	3160 Jul 31 17:07 3160 Aug 06 21:01 3160 Aug 21 05:17 3160 Aug 26 02:44 3160 Sep 03 01:09 3160 Sep 16 16:56	0°സ 23°സ25'56 0°ഫ 8°ഫ50'07 16°ഫ06'46	27°26'24	desc. node evening max el retrograde evening set	3161 Jul 30 17:28 3161 Aug 08 02:19 3161 Aug 16 08:12 3161 Aug 30 04:31 3161 Sep 06 07:36	2° A 34'49 0° m 12° m 06'17 21° m 25'12 28° m 38'53 26° m 19'59	
desc. node evening max el retrograde evening set	3160 Jul 31 17:07 3160 Aug 06 21:01 3160 Aug 21 05:17 3160 Aug 26 02:44 3160 Sep 03 01:09 3160 Sep 16 16:56 3160 Sep 23 21:13	0° നു 23° നു25'56 0° മ 8° മ50'07 16° മ06'46 13° മ30'05		desc. node evening max el retrograde evening set min. Earth dist.	3161 Jul 30 17:28 3161 Aug 08 02:19 3161 Aug 16 08:12 3161 Aug 30 04:31 3161 Sep 06 07:36 3161 Sep 09 22:28	2° \(\alpha \) 34'49 0° \(\bar{m} \) 12° \(\bar{m} \) 06'17 21° \(\bar{m} \) 25'12 28° \(\bar{m} \) 38'53 26° \(\bar{m} \) 19'59 23° \(\bar{m} \) 35'04	0.61597 AU
desc. node evening max el retrograde evening set min. Earth dist.	3160 Jul 31 17:07 3160 Aug 06 21:01 3160 Aug 21 05:17 3160 Aug 26 02:44 3160 Sep 03 01:09 3160 Sep 16 16:56 3160 Sep 23 21:13 3160 Sep 27 12:56	0° നു 23° നു25'56 0° മ 8° മ50'07 16° മ06'46 13° മ30'05	27°26'24 0.63477 AU	desc. node evening max el retrograde evening set min. Earth dist. inferior conj	3161 Jul 30 17:28 3161 Aug 08 02:19 3161 Aug 16 08:12 3161 Aug 30 04:31 3161 Sep 06 07:36 3161 Sep 09 22:28 3161 Sep 13 00:28	2° A 34'49 0° m 12° m 06'17 21° m 25'12 28° m 38'53 26° m 19'59	0.61597 AU -4°10'15
desc. node evening max el retrograde evening set min. Earth dist. inferior conj	3160 Jul 31 17:07 3160 Aug 06 21:01 3160 Aug 21 05:17 3160 Aug 26 02:44 3160 Sep 03 01:09 3160 Sep 16 16:56 3160 Sep 23 21:13 3160 Sep 27 12:56 3160 Sep 30 04:12	0° സ്റ്റ 23° സ്മ25'56 0° മ 8° മ50'07 16° മ06'46 13° മ30'05 10° മ20'29 7° മ41'25	0.63477 AU -3°16'51	desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong	3161 Jul 30 17:28 3161 Aug 08 02:19 3161 Aug 16 08:12 3161 Aug 30 04:31 3161 Sep 06 07:36 3161 Sep 09 22:28 3161 Sep 13 00:28 3161 Sep 13 06:09	2° \mathcal{Q} 34'49 0° \mathcal{W} 12° \mathcal{W} 06'17 21° \mathcal{W} 25'12 28° \mathcal{W} 38'53 26° \mathcal{W} 19'59 23° \mathcal{W} 35'04 20° \mathcal{W} 50'30 20° \mathcal{W} 37'50	0.61597 AU
desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong	3160 Jul 31 17:07 3160 Aug 06 21:01 3160 Aug 21 05:17 3160 Aug 26 02:44 3160 Sep 03 01:09 3160 Sep 16 16:56 3160 Sep 23 21:13 3160 Sep 27 12:56 3160 Sep 30 04:12 3160 Sep 30 09:25	0° സ്റ്റ 23° സ്മ25'56 0° മ 8° മ50'07 16° മ06'46 13° മ30'05 10° മ20'29 7° മ41'25	0.63477 AU	desc. node evening max el retrograde evening set min. Earth dist. inferior conj	3161 Jul 30 17:28 3161 Aug 08 02:19 3161 Aug 16 08:12 3161 Aug 30 04:31 3161 Sep 06 07:36 3161 Sep 09 22:28 3161 Sep 13 00:28	2° \mathbb{A}34'49 0° \mathbb{m} 12° \mathbb{m}06'17 21° \mathbb{m}25'12 28° \mathbb{m}38'53 26° \mathbb{m}19'59 23° \mathbb{m}35'04 20° \mathbb{m}50'30	0.61597 AU -4°10'15
desc. node evening max el retrograde evening set min. Earth dist. inferior conj	3160 Jul 31 17:07 3160 Aug 06 21:01 3160 Aug 21 05:17 3160 Aug 26 02:44 3160 Sep 03 01:09 3160 Sep 16 16:56 3160 Sep 23 21:13 3160 Sep 27 12:56 3160 Sep 30 04:12	0° ነው 23° ነው 25'56 0° Ω 8° Ω 50'07 16° Ω 06'46 13° Ω 30'05 10° Ω 20'29 7° Ω 41'25 7° Ω 28'16 2° Ω 24'48	0.63477 AU -3°16'51	desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong	3161 Jul 30 17:28 3161 Aug 08 02:19 3161 Aug 16 08:12 3161 Aug 30 04:31 3161 Sep 06 07:36 3161 Sep 09 22:28 3161 Sep 13 00:28 3161 Sep 13 06:09	2° \mathcal{Q} 34'49 0° \mathcal{W} 12° \mathcal{W} 06'17 21° \mathcal{W} 25'12 28° \mathcal{W} 38'53 26° \mathcal{W} 19'59 23° \mathcal{W} 35'04 20° \mathcal{W} 50'30 20° \mathcal{W} 37'50	0.61597 AU -4°10'15
desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong	3160 Jul 31 17:07 3160 Aug 06 21:01 3160 Aug 21 05:17 3160 Aug 26 02:44 3160 Sep 03 01:09 3160 Sep 16 16:56 3160 Sep 23 21:13 3160 Sep 27 12:56 3160 Sep 30 04:12 3160 Sep 30 09:25	0° m 23° m 25'56 0° Ω 8° Ω 50'07 16° Ω 06'46 13° Ω 30'05 10° Ω 20'29 7° Ω 41'25 7° Ω 28'16	0.63477 AU -3°16'51	desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise	3161 Jul 30 17:28 3161 Aug 08 02:19 3161 Aug 16 08:12 3161 Aug 30 04:31 3161 Sep 06 07:36 3161 Sep 09 22:28 3161 Sep 13 00:28 3161 Sep 13 06:09 3161 Sep 20 06:23	2° \mathcal{Q} 34'49 0° \mathcal{W} 12° \mathcal{W} 06'17 21° \mathcal{W} 25'12 28° \mathcal{W} 38'53 26° \mathcal{W} 19'59 23° \mathcal{W} 35'04 20° \mathcal{W} 50'30 20° \mathcal{W} 37'50 15° \mathcal{W} 54'04	0.61597 AU -4°10'15
desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise	3160 Jul 31 17:07 3160 Aug 06 21:01 3160 Aug 21 05:17 3160 Aug 26 02:44 3160 Sep 03 01:09 3160 Sep 16 16:56 3160 Sep 23 21:13 3160 Sep 27 12:56 3160 Sep 30 04:12 3160 Sep 30 09:25 3160 Oct 06 22:55	0° ነው 23° ነው 25'56 0° Ω 8° Ω 50'07 16° Ω 06'46 13° Ω 30'05 10° Ω 20'29 7° Ω 41'25 7° Ω 28'16 2° Ω 24'48	0.63477 AU -3°16'51	desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct	3161 Jul 30 17:28 3161 Aug 08 02:19 3161 Aug 16 08:12 3161 Aug 30 04:31 3161 Sep 06 07:36 3161 Sep 09 22:28 3161 Sep 13 00:28 3161 Sep 13 06:09 3161 Sep 20 06:23 3161 Sep 22 15:40	2° \mathcal{Q} 34'49 0° \mathcal{W} 12° \mathcal{W} 06'17 21° \mathcal{W} 25'12 28° \mathcal{W} 38'53 26° \mathcal{W} 19'59 23° \mathcal{W} 35'04 20° \mathcal{W} 50'30 20° \mathcal{W} 37'50 15° \mathcal{W} 54'04 15° \mathcal{W} 30'09 17° \mathcal{W} 13'06	0.61597 AU -4°10'15
desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct	3160 Jul 31 17:07 3160 Aug 06 21:01 3160 Aug 21 05:17 3160 Aug 26 02:44 3160 Sep 03 01:09 3160 Sep 16 16:56 3160 Sep 23 21:13 3160 Sep 27 12:56 3160 Sep 30 04:12 3160 Sep 30 09:25 3160 Oct 06 22:55 3160 Oct 09 10:21	0° ነው 23° ነው 25'56 0° ፡ ፡ ፡ ፡ ፡ ፡ 8° ፡ ፡ ፡ 50'07 16° ፡ ፡	0.63477 AU -3°16'51	desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node	3161 Jul 30 17:28 3161 Aug 08 02:19 3161 Aug 16 08:12 3161 Aug 30 04:31 3161 Sep 06 07:36 3161 Sep 09 22:28 3161 Sep 13 00:28 3161 Sep 13 06:09 3161 Sep 20 06:23 3161 Sep 22 15:40 3161 Sep 27 12:20	2° \mathcal{Q} 34'49 0° \mathcal{W} 12° \mathcal{W} 06'17 21° \mathcal{W} 25'12 28° \mathcal{W} 38'53 26° \mathcal{W} 19'59 23° \mathcal{W} 35'04 20° \mathcal{W} 50'30 20° \mathcal{W} 37'50 15° \mathcal{W} 54'04 15° \mathcal{W} 30'09 17° \mathcal{W} 13'06	0.61597 AU -4°10'15 4°08'54
desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node	3160 Jul 31 17:07 3160 Aug 06 21:01 3160 Aug 21 05:17 3160 Aug 26 02:44 3160 Sep 03 01:09 3160 Sep 16 16:56 3160 Sep 23 21:13 3160 Sep 27 12:56 3160 Sep 30 04:12 3160 Sep 30 09:25 3160 Oct 06 22:55 3160 Oct 09 10:21 3160 Oct 10 15:16	0° ነው 23° ነው 25'56 0° ፡ ፡ ፡ ፡ ፡ ፡ 8° ፡ ፡ ፡ 50'07 16° ፡ ፡	0.63477 AU -3°16'51 3°15'09	desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node	3161 Jul 30 17:28 3161 Aug 08 02:19 3161 Aug 16 08:12 3161 Aug 30 04:31 3161 Sep 06 07:36 3161 Sep 09 22:28 3161 Sep 13 00:28 3161 Sep 13 06:09 3161 Sep 20 06:23 3161 Sep 22 15:40 3161 Sep 27 12:20 3161 Sep 29 15:23	2° \(\arrop{0} 34'49\) 0° \(\mathred{m} \) 12° \(\mathred{m} \) 06'17 21° \(\mathred{m} \) 25'12 28° \(\mathred{m} \) 38'53 26° \(\mathred{m} \) 19'59 23° \(\mathred{m} \) 35'04 20° \(\mathred{m} \) 30'03 20° \(\mathred{m} \) 30'09 17° \(\mathred{m} \) 13'06 19° \(\mathred{m} \) 00'33	0.61597 AU -4°10'15 4°08'54
desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node	3160 Jul 31 17:07 3160 Aug 06 21:01 3160 Aug 21 05:17 3160 Aug 26 02:44 3160 Sep 03 01:09 3160 Sep 16 16:56 3160 Sep 23 21:13 3160 Sep 27 12:56 3160 Sep 30 04:12 3160 Sep 30 09:25 3160 Oct 06 22:55 3160 Oct 09 10:21 3160 Oct 10 15:16 3160 Oct 16 00:29	0° ነው 23° ነው 25'56 0° ፡ ፡ ፡ ፡ ፡ ፡ ፡ ፡ ፡ ፡ ፡ ፡ ፡ ፡ ፡ ፡ ፡ ፡ ፡	0.63477 AU -3°16'51 3°15'09	desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el	3161 Jul 30 17:28 3161 Aug 08 02:19 3161 Aug 16 08:12 3161 Aug 30 04:31 3161 Sep 06 07:36 3161 Sep 09 22:28 3161 Sep 13 00:28 3161 Sep 13 06:09 3161 Sep 20 06:23 3161 Sep 22 15:40 3161 Sep 27 12:20 3161 Sep 29 15:23 3161 Oct 07 15:32	2° € 34'49 0° ↑ ↑ 12° ↑ 106'17 21° ↑ 125'12 28° ↑ 13'53 26° ↑ 19'59 23° ↑ 13'04 20° ↑ 13'04 20° ↑ 13'06 19° ↑ 100'33 0° • •	0.61597 AU -4°10'15 4°08'54
desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el morning set	3160 Jul 31 17:07 3160 Aug 06 21:01 3160 Aug 21 05:17 3160 Aug 26 02:44 3160 Sep 03 01:09 3160 Sep 16 16:56 3160 Sep 23 21:13 3160 Sep 27 12:56 3160 Sep 30 04:12 3160 Sep 30 09:25 3160 Oct 06 22:55 3160 Oct 09 10:21 3160 Oct 10 15:16 3160 Oct 16 00:29 3160 Nov 01 02:02 3160 Nov 01 12:45	0° ነው 23° ነው 25'56 0°	0.63477 AU -3°16'51 3°15'09	desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el morning set	3161 Jul 30 17:28 3161 Aug 08 02:19 3161 Aug 16 08:12 3161 Aug 30 04:31 3161 Sep 06 07:36 3161 Sep 09 22:28 3161 Sep 13 00:28 3161 Sep 13 06:09 3161 Sep 20 06:23 3161 Sep 22 15:40 3161 Sep 27 12:20 3161 Sep 29 15:23 3161 Oct 07 15:32 3161 Oct 15 11:43 3161 Oct 24 10:08	2° \(\Omega 34'49\) 0° \(\text{m} \) 12° \(\text{m} \) 06'17 21° \(\text{m} \) 25'12 28° \(\text{m} \) 38'53 26° \(\text{m} \) 19'59 23° \(\text{m} \) 35'04 20° \(\text{m} \) 30'04 15° \(\text{m} \) 30'09 17° \(\text{m} \) 13'06 19° \(\text{m} \) 00'33 0° \(\text{s} \) 13° \(\text{s} \) 55'16 0° \(\text{m} \)	0.61597 AU -4°10'15 4°08'54 17°55'56
desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el morning set superior conj	3160 Jul 31 17:07 3160 Aug 06 21:01 3160 Aug 21 05:17 3160 Aug 26 02:44 3160 Sep 03 01:09 3160 Sep 16 16:56 3160 Sep 23 21:13 3160 Sep 27 12:56 3160 Sep 30 04:12 3160 Sep 30 09:25 3160 Oct 06 22:55 3160 Oct 09 10:21 3160 Oct 10 15:16 3160 Oct 16 00:29 3160 Nov 01 02:02 3160 Nov 01 12:45	0° ነነ 23° ነነ 25' 56 0°	0.63477 AU -3°16'51 3°15'09 17°51'24	desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el morning set	3161 Jul 30 17:28 3161 Aug 08 02:19 3161 Aug 16 08:12 3161 Aug 30 04:31 3161 Sep 06 07:36 3161 Sep 09 22:28 3161 Sep 13 00:28 3161 Sep 13 06:09 3161 Sep 20 06:23 3161 Sep 22 15:40 3161 Sep 27 12:20 3161 Sep 29 15:23 3161 Oct 07 15:32 3161 Oct 15 11:43 3161 Oct 24 10:08	2° N 34'49 0° M 12° M 06'17 21° M 25'12 28° M 38'53 26° M 19'59 23° M 35'04 20° M 50'30 20° M 37'50 15° M 54'04 15° M 30'09 17° M 13'06 19° M 00'33 0° Ω 13° Ω 55'16 0° M	0.61597 AU -4°10'15 4°08'54 17°55'56
desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el morning set superior conj minimum elong	3160 Jul 31 17:07 3160 Aug 06 21:01 3160 Aug 21 05:17 3160 Aug 26 02:44 3160 Sep 03 01:09 3160 Sep 16 16:56 3160 Sep 23 21:13 3160 Sep 27 12:56 3160 Sep 30 04:12 3160 Sep 30 09:25 3160 Oct 06 22:55 3160 Oct 09 10:21 3160 Oct 10 15:16 3160 Oct 16 00:29 3160 Nov 01 02:02 3160 Nov 01 12:45	0° ነው 23° ነው 25'56 0°	0.63477 AU -3°16'51 3°15'09	desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el morning set	3161 Jul 30 17:28 3161 Aug 08 02:19 3161 Aug 16 08:12 3161 Aug 30 04:31 3161 Sep 06 07:36 3161 Sep 09 22:28 3161 Sep 13 00:28 3161 Sep 13 06:09 3161 Sep 20 06:23 3161 Sep 22 15:40 3161 Sep 27 12:20 3161 Sep 29 15:23 3161 Oct 07 15:32 3161 Oct 15 11:43 3161 Oct 24 10:08	2° N 34'49 0° M 12° M 06'17 21° M 25'12 28° M 38'53 26° M 19'59 23° M 35'04 20° M 50'30 20° M 37'50 15° M 54'04 15° M 30'09 17° M 13'06 19° M 00'33 0° \(\Omega\$ 13° \(\Omega\$ 55'16 0° M. 2° M 42'47 3° M 01'30	0.61597 AU -4°10'15 4°08'54 17°55'56
desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el morning set superior conj	3160 Jul 31 17:07 3160 Aug 06 21:01 3160 Aug 21 05:17 3160 Aug 26 02:44 3160 Sep 03 01:09 3160 Sep 16 16:56 3160 Sep 23 21:13 3160 Sep 27 12:56 3160 Sep 30 04:12 3160 Sep 30 09:25 3160 Oct 06 22:55 3160 Oct 09 10:21 3160 Oct 10 15:16 3160 Oct 10 00:29 3160 Nov 01 02:02 3160 Nov 01 12:45 3160 Nov 13 17:28 3160 Nov 13 19:54 3160 Nov 17 04:34	0° m 23° m25'56 0° Ω 8° Ω50'07 16° Ω06'46 13° Ω30'05 10° Ω20'29 7° Ω41'25 7° Ω28'16 2° Ω24'48 1° Ω55'13 2° Ω02'22 5° Ω20'40 0° m 0° m46'35 21° m32'04 21° m42'07 27° m12'00	0.63477 AU -3°16'51 3°15'09 17°51'24	desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el morning set	3161 Jul 30 17:28 3161 Aug 08 02:19 3161 Aug 16 08:12 3161 Aug 30 04:31 3161 Sep 06 07:36 3161 Sep 09 22:28 3161 Sep 13 00:28 3161 Sep 13 06:09 3161 Sep 20 06:23 3161 Sep 22 15:40 3161 Sep 27 12:20 3161 Sep 29 15:23 3161 Oct 07 15:32 3161 Oct 15 11:43 3161 Oct 24 10:08 3161 Oct 25 23:26 3161 Oct 26 03:45 3161 Nov 02 10:55	2° \(\alpha \) 3449 0° \(\mathref{m} \) 12° \(\mathref{m} \) 06'17 21° \(\mathref{m} \) 25'12 28° \(\mathref{m} \) 38'53 26° \(\mathref{m} \) 19'59 23° \(\mathref{m} \) 35'04 20° \(\mathref{m} \) 37'50 15° \(\mathref{m} \) 30'09 17° \(\mathref{m} \) 13'06 19° \(\mathref{m} \) 00'33 0° \(\odols \) 13° \(\odols \) 55'16 0° \(\mathref{m} \) 2° \(\mathref{m} \) 42'47 3° \(\mathref{m} \) 01'30 15° \(\mathref{m} \) 21'13	0.61597 AU -4°10'15 4°08'54 17°55'56
desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el morning set superior conj minimum elong desc. node	3160 Jul 31 17:07 3160 Aug 06 21:01 3160 Aug 21 05:17 3160 Aug 26 02:44 3160 Sep 03 01:09 3160 Sep 16 16:56 3160 Sep 23 21:13 3160 Sep 27 12:56 3160 Sep 30 04:12 3160 Sep 30 09:25 3160 Oct 06 22:55 3160 Oct 09 10:21 3160 Oct 10 15:16 3160 Oct 10 00:29 3160 Nov 01 02:02 3160 Nov 01 12:45 3160 Nov 13 17:28 3160 Nov 13 19:54 3160 Nov 17 04:34 3160 Nov 18 22:11	0° m/ 23° m/25'56 0° Ω 8° Ω 50'07 16° Ω 06'46 13° Ω 30'05 10° Ω 20'29 7° Ω 41'25 7° Ω 28'16 2° Ω 24'48 1° Ω 55'13 2° Ω 02'22 5° Ω 20'40 0° m. 0° m.46'35 21° m.32'04 21° m.42'07 27° m.12'00 0° 7'	0.63477 AU -3°16'51 3°15'09 17°51'24 0°23'40 0°23'19	desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el morning set	3161 Jul 30 17:28 3161 Aug 08 02:19 3161 Aug 16 08:12 3161 Aug 30 04:31 3161 Sep 06 07:36 3161 Sep 09 22:28 3161 Sep 13 00:28 3161 Sep 13 06:09 3161 Sep 20 06:23 3161 Sep 22 15:40 3161 Sep 27 12:20 3161 Sep 29 15:23 3161 Oct 07 15:32 3161 Oct 15 11:43 3161 Oct 24 10:08 3161 Oct 25 23:26 3161 Oct 26 03:45 3161 Nov 02 10:55 3161 Nov 04 01:37	2° \(\alpha \) 3449 0° \(\mathref{m} \) 12° \(\mathref{m} \) 06'17 21° \(\mathref{m} \) 25'12 28° \(\mathref{m} \) 38'53 26° \(\mathref{m} \) 19'59 23° \(\mathref{m} \) 35'04 20° \(\mathref{m} \) 37'50 15° \(\mathref{m} \) 30'09 17° \(\mathref{m} \) 13'06 19° \(\mathref{m} \) 00'33 0° \(\odols \) 13° \(\odols \) 55'16 0° \(\mathref{m} \) 2° \(\mathref{m} \) 42'47 3° \(\mathref{m} \) 01'30 15° \(\mathref{m} \) 21'13 17° \(\mathref{m} \) 59'28	0.61597 AU -4°10'15 4°08'54 17°55'56
desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el morning set superior conj minimum elong desc. node max. Earth dist.	3160 Jul 31 17:07 3160 Aug 06 21:01 3160 Aug 21 05:17 3160 Aug 26 02:44 3160 Sep 03 01:09 3160 Sep 16 16:56 3160 Sep 23 21:13 3160 Sep 27 12:56 3160 Sep 30 04:12 3160 Sep 30 09:25 3160 Oct 06 22:55 3160 Oct 09 10:21 3160 Oct 10 15:16 3160 Oct 10 00:29 3160 Nov 01 02:02 3160 Nov 01 12:45 3160 Nov 13 17:28 3160 Nov 13 19:54 3160 Nov 17 04:34	0° m/ 23° m/25'56 0° Ω 8° Ω 50'07 16° Ω 06'46 13° Ω 30'05 10° Ω 20'29 7° Ω 41'25 7° Ω 28'16 2° Ω 24'48 1° Ω 55'13 2° Ω 02'22 5° Ω 20'40 0° m. 0° m.46'35 21° m.42'07 27° m.12'00 0° √ 1° ✓ 33'38	0.63477 AU -3°16'51 3°15'09 17°51'24	desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el morning set	3161 Jul 30 17:28 3161 Aug 08 02:19 3161 Aug 16 08:12 3161 Aug 30 04:31 3161 Sep 06 07:36 3161 Sep 09 22:28 3161 Sep 13 00:28 3161 Sep 13 06:09 3161 Sep 20 06:23 3161 Sep 22 15:40 3161 Sep 27 12:20 3161 Sep 29 15:23 3161 Oct 07 15:32 3161 Oct 15 11:43 3161 Oct 24 10:08 3161 Oct 25 23:26 3161 Oct 26 03:45 3161 Nov 02 10:55	2° € 34'49 0° № 12° № 06'17 21° № 25'12 28° № 38'53 26° № 19'59 23° № 35'04 20° № 50'30 20° № 50'30 15° № 54'04 15° № 30'09 17° № 13'06 19° № 00'33 0° £ 13° £ 55'16 0° № 2° № 42'47 3° № 01'30 15° № 21'13 17° № 59'28 25° № 50'52	0.61597 AU -4°10'15 4°08'54 17°55'56
desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el morning set superior conj minimum elong desc. node	3160 Jul 31 17:07 3160 Aug 06 21:01 3160 Aug 21 05:17 3160 Aug 26 02:44 3160 Sep 03 01:09 3160 Sep 16 16:56 3160 Sep 23 21:13 3160 Sep 27 12:56 3160 Sep 30 04:12 3160 Sep 30 09:25 3160 Oct 06 22:55 3160 Oct 09 10:21 3160 Oct 10 15:16 3160 Oct 10 00:29 3160 Nov 01 02:02 3160 Nov 01 12:45 3160 Nov 13 17:28 3160 Nov 13 19:54 3160 Nov 17 04:34 3160 Nov 18 22:11 3160 Nov 19 21:32 3160 Nov 29 08:35	0° m 23° m25'56 0° Ω 8° Ω50'07 16° Ω06'46 13° Ω30'05 10° Ω20'29 7° Ω41'25 7° Ω28'16 2° Ω24'48 1° Ω55'13 2° Ω02'22 5° Ω20'40 0° m 0° m46'35 21° m32'04 21° m42'07 27° m12'00 0° ズ 1° ズ33'38 16° ズ24'11	0.63477 AU -3°16'51 3°15'09 17°51'24 0°23'40 0°23'19	desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el morning set	3161 Jul 30 17:28 3161 Aug 08 02:19 3161 Aug 16 08:12 3161 Aug 30 04:31 3161 Sep 06 07:36 3161 Sep 09 22:28 3161 Sep 13 00:28 3161 Sep 13 06:09 3161 Sep 20 06:23 3161 Sep 20 15:40 3161 Sep 27 12:20 3161 Sep 29 15:23 3161 Oct 07 15:32 3161 Oct 15 11:43 3161 Oct 24 10:08 3161 Oct 25 23:26 3161 Oct 26 03:45 3161 Nov 02 10:55 3161 Nov 04 01:37 3161 Nov 08 23:21 3161 Nov 11 15:04	2° € 34'49 0° № 12° № 06'17 21° № 25'12 28° № 38'53 26° № 19'59 23° № 35'04 20° № 50'30 20° № 50'30 15° № 54'04 15° № 30'09 17° № 13'06 19° № 00'33 0° £ 13° £ 55'16 0° № 2° № 42'47 3° № 01'30 15° № 21'13 17° № 59'28 25° № 50'52 0° ₹	0.61597 AU -4°10'15 4°08'54 17°55'56
desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el morning set superior conj minimum elong desc. node max. Earth dist.	3160 Jul 31 17:07 3160 Aug 06 21:01 3160 Aug 21 05:17 3160 Aug 26 02:44 3160 Sep 03 01:09 3160 Sep 16 16:56 3160 Sep 23 21:13 3160 Sep 27 12:56 3160 Sep 30 04:12 3160 Sep 30 09:25 3160 Oct 06 22:55 3160 Oct 09 10:21 3160 Oct 10 15:16 3160 Oct 10 00:29 3160 Nov 01 02:02 3160 Nov 01 12:45 3160 Nov 13 17:28 3160 Nov 13 19:54 3160 Nov 18 22:11 3160 Nov 19 21:32	0° ነው 23° ነው 25'56 0°	0.63477 AU -3°16'51 3°15'09 17°51'24 0°23'40 0°23'19 1.44110 AU	desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el morning set	3161 Jul 30 17:28 3161 Aug 08 02:19 3161 Aug 16 08:12 3161 Aug 30 04:31 3161 Sep 06 07:36 3161 Sep 09 22:28 3161 Sep 13 00:28 3161 Sep 13 06:09 3161 Sep 20 06:23 3161 Sep 22 15:40 3161 Sep 27 12:20 3161 Sep 29 15:23 3161 Oct 07 15:32 3161 Oct 15 11:43 3161 Oct 24 10:08 3161 Oct 25 23:26 3161 Oct 26 03:45 3161 Nov 02 10:55 3161 Nov 04 01:37 3161 Nov 08 23:21	2° € 34'49 0° № 12° № 06'17 21° № 25'12 28° № 38'53 26° № 19'59 23° № 35'04 20° № 50'30 20° № 50'30 15° № 54'04 15° № 30'09 17° № 13'06 19° № 00'33 0° £ 13° £ 55'16 0° № 2° № 42'47 3° № 01'30 15° № 21'13 17° № 59'28 25° № 50'52	0.61597 AU -4°10'15 4°08'54 17°55'56
desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el morning set superior conj minimum elong desc. node max. Earth dist.	3160 Jul 31 17:07 3160 Aug 06 21:01 3160 Aug 21 05:17 3160 Aug 26 02:44 3160 Sep 03 01:09 3160 Sep 16 16:56 3160 Sep 23 21:13 3160 Sep 27 12:56 3160 Sep 30 04:12 3160 Sep 30 09:25 3160 Oct 06 22:55 3160 Oct 09 10:21 3160 Oct 10 15:16 3160 Oct 10 00:29 3160 Nov 01 02:02 3160 Nov 01 12:45 3160 Nov 13 17:28 3160 Nov 13 19:54 3160 Nov 17 04:34 3160 Nov 18 22:11 3160 Nov 19 21:32 3160 Nov 29 08:35	0° m 23° m25'56 0° Ω 8° Ω50'07 16° Ω06'46 13° Ω30'05 10° Ω20'29 7° Ω41'25 7° Ω28'16 2° Ω24'48 1° Ω55'13 2° Ω02'22 5° Ω20'40 0° m 0° m46'35 21° m32'04 21° m42'07 27° m12'00 0° ズ 1° ズ33'38 16° ズ24'11	0.63477 AU -3°16'51 3°15'09 17°51'24 0°23'40 0°23'19 1.44110 AU	desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el morning set	3161 Jul 30 17:28 3161 Aug 08 02:19 3161 Aug 16 08:12 3161 Aug 30 04:31 3161 Sep 06 07:36 3161 Sep 09 22:28 3161 Sep 13 00:28 3161 Sep 13 06:09 3161 Sep 20 06:23 3161 Sep 20 15:40 3161 Sep 27 12:20 3161 Sep 29 15:23 3161 Oct 07 15:32 3161 Oct 15 11:43 3161 Oct 24 10:08 3161 Oct 25 23:26 3161 Oct 26 03:45 3161 Nov 02 10:55 3161 Nov 04 01:37 3161 Nov 08 23:21 3161 Nov 11 15:04	2° € 34'49 0° № 12° № 06'17 21° № 25'12 28° № 38'53 26° № 19'59 23° № 35'04 20° № 50'30 20° № 50'30 15° № 54'04 15° № 30'09 17° № 13'06 19° № 00'33 0° £ 13° £ 55'16 0° № 2° № 42'47 3° № 01'30 15° № 21'13 17° № 59'28 25° № 50'52 0° ₹	0.61597 AU -4°10'15 4°08'54 17°55'56
desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el morning set superior conj minimum elong desc. node max. Earth dist. evening rise	3160 Jul 31 17:07 3160 Aug 06 21:01 3160 Aug 21 05:17 3160 Aug 26 02:44 3160 Sep 03 01:09 3160 Sep 16 16:56 3160 Sep 23 21:13 3160 Sep 27 12:56 3160 Sep 30 04:12 3160 Sep 30 09:25 3160 Oct 06 22:55 3160 Oct 07 10:21 3160 Oct 10 15:16 3160 Oct 10 15:16 3160 Oct 10 15:16 3160 Oct 10 12:45 3160 Nov 01 02:02 3160 Nov 01 12:45 3160 Nov 13 17:28 3160 Nov 13 17:28 3160 Nov 13 19:54 3160 Nov 18 22:11 3160 Nov 19 21:32 3160 Nov 29 08:35 3160 Dec 08 07:31	0° ነው 23° ነው 25'56 0°	0.63477 AU -3°16'51 3°15'09 17°51'24 0°23'40 0°23'19 1.44110 AU	desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el morning set superior conj minimum elong max. Earth dist. desc. node evening rise	3161 Jul 30 17:28 3161 Aug 08 02:19 3161 Aug 16 08:12 3161 Aug 30 04:31 3161 Sep 06 07:36 3161 Sep 09 22:28 3161 Sep 13 00:28 3161 Sep 13 06:09 3161 Sep 20 06:23 3161 Sep 22 15:40 3161 Sep 27 12:20 3161 Sep 29 15:23 3161 Oct 07 15:32 3161 Oct 15 11:43 3161 Oct 24 10:08 3161 Not 02 10:55 3161 Nov 04 01:37 3161 Nov 08 23:21 3161 Nov 11 15:04 3161 Dec 02 05:29	2° € 34'49 0° № 12° № 06'17 21° № 25'12 28° № 38'53 26° № 19'59 23° № 35'04 20° № 50'30 20° № 37'50 15° № 54'04 15° № 30'09 17° № 13'06 19° № 00'33 0° £ 13° £ 55'16 0° № 2° № 42'47 3° № 01'30 15° № 21'13 17° № 59'28 25° № 50'52 0° ₹ 0° ♂	0.61597 AU -4°10'15 4°08'54 17°55'56 1°00'18 0°59'45 1.42607 AU
desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el morning set superior conj minimum elong desc. node max. Earth dist. evening rise	3160 Jul 31 17:07 3160 Aug 06 21:01 3160 Aug 21 05:17 3160 Aug 26 02:44 3160 Sep 03 01:09 3160 Sep 16 16:56 3160 Sep 23 21:13 3160 Sep 27 12:56 3160 Sep 30 04:12 3160 Sep 30 09:25 3160 Oct 06 22:55 3160 Oct 09 10:21 3160 Oct 10 15:16 3160 Oct 16 00:29 3160 Nov 01 02:02 3160 Nov 01 12:45 3160 Nov 13 17:28 3160 Nov 13 17:28 3160 Nov 13 19:54 3160 Nov 18 22:11 3160 Nov 19 21:32 3160 Nov 29 08:35 3160 Dec 08 07:31 3160 Dec 28 07:52	0° ነው 23° ነው 25'56 0° ፡ ፡ ፡ ፡ ፡ ፡ ፡ ፡ ፡ ፡ ፡ ፡ ፡ ፡ ፡ ፡ ፡ ፡ ፡	0.63477 AU -3°16'51 3°15'09 17°51'24 0°23'40 0°23'19 1.44110 AU	desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el morning set superior conj minimum elong max. Earth dist. desc. node evening rise	3161 Jul 30 17:28 3161 Aug 08 02:19 3161 Aug 16 08:12 3161 Aug 30 04:31 3161 Sep 06 07:36 3161 Sep 09 22:28 3161 Sep 13 00:28 3161 Sep 13 06:09 3161 Sep 20 06:23 3161 Sep 22 15:40 3161 Sep 22 15:40 3161 Sep 29 15:23 3161 Oct 07 15:32 3161 Oct 15 11:43 3161 Oct 24 10:08 3161 Oct 25 23:26 3161 Nov 04 01:37 3161 Nov 04 01:37 3161 Nov 08 23:21 3161 Nov 11 15:04 3161 Dec 02 05:29 3161 Dec 11 03:23	2° € 34'49 0° № 12° № 06'17 21° № 25'12 28° № 38'53 26° № 19'59 23° № 35'04 20° № 50'30 20° № 37'50 15° № 54'04 15° № 30'09 17° № 13'06 19° № 00'33 0° £ 13° £ 55'16 0° № 2° № 42'47 3° № 01'30 15° № 21'13 17° № 59'28 25° № 50'52 0° ₹ 0° ♂ 10° ♂ 42'26	0.61597 AU -4°10'15 4°08'54 17°55'56 1°00'18 0°59'45 1.42607 AU
desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el morning set superior conj minimum elong desc. node max. Earth dist. evening rise evening max el	3160 Jul 31 17:07 3160 Aug 06 21:01 3160 Aug 21 05:17 3160 Aug 26 02:44 3160 Sep 03 01:09 3160 Sep 16 16:56 3160 Sep 23 21:13 3160 Sep 27 12:56 3160 Sep 30 04:12 3160 Sep 30 09:25 3160 Oct 06 22:55 3160 Oct 09 10:21 3160 Oct 10 15:16 3160 Oct 10 02:02 3160 Nov 01 02:02 3160 Nov 01 12:45 3160 Nov 13 17:28 3160 Nov 13 17:28 3160 Nov 13 19:54 3160 Nov 18 22:11 3160 Nov 19 21:32 3160 Nov 29 08:35 3160 Dec 08 07:31 3160 Dec 28 07:52 3160 Dec 31 12:02	0°m 23°m25'56 0°Ω 8°Ω50'07 16°Ω06'46 13°Ω30'05 10°Ω20'29 7°Ω41'25 7°Ω28'16 2°Ω24'48 1°Ω55'13 2°Ω02'22 5°Ω20'40 0°m 0°m.46'35 21°m.32'04 21°m.42'07 27°m.12'00 0°\$\mathred{x}\$ 16°\$\mathred{x}\$24'11 0°\$\mathred{z}\$ 27°\$\mathred{3}09'42 0°\$\infty\$	0.63477 AU -3°16'51 3°15'09 17°51'24 0°23'40 0°23'19 1.44110 AU	desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el morning set superior conj minimum elong max. Earth dist. desc. node evening rise	3161 Jul 30 17:28 3161 Aug 08 02:19 3161 Aug 16 08:12 3161 Aug 30 04:31 3161 Sep 06 07:36 3161 Sep 09 22:28 3161 Sep 13 00:28 3161 Sep 13 06:09 3161 Sep 20 06:23 3161 Sep 22 15:40 3161 Sep 27 12:20 3161 Sep 29 15:23 3161 Oct 07 15:32 3161 Oct 15 11:43 3161 Oct 24 10:08 3161 Oct 25 23:26 3161 Oct 26 03:45 3161 Nov 02 10:55 3161 Nov 04 01:37 3161 Nov 08 23:21 3161 Dec 02 05:29 3161 Dec 11 03:23 3161 Dec 20 12:02	2° € 34'49 0° № 12° № 06'17 21° № 25'12 28° № 38'53 26° № 19'59 23° № 35'04 20° № 50'30 20° № 37'50 15° № 54'04 15° № 30'09 17° № 13'06 19° № 00'33 0° ₽ 13° ₽ 55'16 0° № 2° № 42'47 3° № 01'30 15° № 21'13 17° № 59'28 25° № 50'52 0° ₹ 0° ♂ 10° ♂ 42'26 16° ♂ 16'42	0.61597 AU -4°10'15 4°08'54 17°55'56 1°00'18 0°59'45 1.42607 AU

	21(1 D 20 07 02	00710122	1050125		21/2 D 01 14/22	007	
inferior conj	3161 Dec 30 07:03	8°る10'33			3162 Dec 01 14:32	0°る	
minimum elong	3161 Dec 30 04:50	8°る18'15	1°51'48	retrograde	3162 Dec 04 06:05	0°る29'57	
min. Earth dist.	3161 Dec 30 07:21	8° る 09'31	0.67896 AU		3162 Dec 06 17:48	30°₹ ৴	
morning rise	3162 Jan 04 10:52	1°る59'23		evening set	3162 Dec 09 05:15	28° ₹ 26'50	
	3162 Jan 08 12:59	30°₹ ⋌		asc. node	3162 Dec 11 08:37	26° ₹ 17'12	
direct	3162 Jan 09 06:27	29° ₹ 57'23		min. Earth dist.	3162 Dec 14 04:09	22° ∡ 38′51	0.67887 AU
	3162 Jan 10 00:15	0°₹		inferior conj	3162 Dec 14 14:41	22° ∡ '02'43	1°05'31
morning max el	3162 Jan 18 22:52	5° ප් 40'30	22°33'43	minimum elong	3162 Dec 14 13:13	22° ∡ '07'45	1°04'55
desc. node	3162 Jan 31 00:49	20° る 34'15		morning rise	3162 Dec 19 21:07	15° ₹ 55'19	
	3162 Feb 06 15:17	0° ≈		direct	3162 Dec 24 02:21	14° ∤ 16'06	
morning set	3162 Feb 21 20:35	23° ≈ 37'47		morning max el	3163 Jan 01 14:40	19° ∡ 12'50	21°10'41
	3162 Feb 25 16:37	0° ∀			3163 Jan 10 12:02	0° ろ	
max. Earth dist.	3162 Feb 26 19:11	1° ∺ 52′28	1.40410 AU	desc. node	3163 Jan 17 21:51	10° る 28'30	
					3163 Jan 30 19:46	0° ≈	
superior conj	3162 Mar 06 14:07	15° ∺ 31'59		morning set	3163 Feb 01 08:10	2° ≈ 22'31	
minimum elong	3162 Mar 06 17:54	15°) 49′06	1°57'39	max. Earth dist.	3163 Feb 08 21:00	14° ≈ 27'18	1.42420 AU
	3162 Mar 14 09:30	0 ° $\mathbf{\gamma}$					
evening rise	3162 Mar 16 14:13	4° Ƴ 08'59		superior conj	3163 Feb 16 03:01	26° ≈ 35'17	-2°06'31
asc. node	3162 Mar 22 10:54	15° Ƴ 01'27		minimum elong	3163 Feb 16 03:27	26° ≈ 37′08	2°06'30
	3162 Apr 01 16:47	$6^{\circ}B$			3163 Feb 18 02:34	0° ∀	
evening max el	3162 Apr 01 18:44	0° 8 04'47	18°22'36	evening rise	3163 Feb 27 13:05	16°) 45′37	
retrograde	3162 Apr 09 02:57	3° 8 43'11			3163 Mar 07 00:01	0° Y	
evening set	3162 Apr 11 12:38	3° 8 20'50		asc. node	3163 Mar 09 07:56	3° Y 51'32	
	3162 Apr 17 06:32	30° ₹ Υ		evening max el	3163 Mar 16 05:18	13° Y 03'32	18°07'44
inferior conj	3162 Apr 18 19:34	28° Ƴ 44'56	2°37'04	retrograde	3163 Mar 22 21:24	16° Ƴ 27'49	
minimum elong	3162 Apr 18 23:19	28° Ƴ 37′09	2°36'09	evening set	3163 Mar 25 13:09	15° Ƴ 55'38	
min. Earth dist.	3162 Apr 22 06:11	25° Y 55'13	0.58796 AU	inferior conj	3163 Apr 01 04:11	10° Ƴ 59'07	3°20'36
morning rise	3162 Apr 26 07:07	23° Ƴ 12'17		minimum elong	3163 Apr 01 06:38	10° Ƴ 53'17	3°20'14
desc. node	3162 Apr 28 24:00	22° Y 03'40		min. Earth dist.	3163 Apr 04 09:10	7° Y ′56'06	0.60972 AU
direct	3162 May 02 10:45	21° Y 31'59		morning rise	3163 Apr 07 22:09	5° Y ′06′29	
morning max el	3162 May 16 20:08	29° Ƴ 16'56	27°06'17	direct	3163 Apr 14 15:53	2° Y 51'23	
Ü	3162 May 17 13:25	0°8		desc. node	3163 Apr 15 21:02	2° Y 55'35	
	3162 Jun 07 12:15	0°П		morning max el	3163 Apr 28 21:40	10° Ƴ 46'45	27°45'26
morning set	3162 Jun 16 06:13	17° Ⅲ 07'27		, and the second	3163 May 13 21:32	0° ႘	
asc. node	3162 Jun 18 10:12	21° Ⅱ 43'11			3163 May 30 16:24	0°II	
	3162 Jun 22 05:24	0°50		morning set	3163 May 31 11:40	1° Ⅱ 38'43	
				asc. node	3163 Jun 05 07:14	11° II 50'27	
superior conj	3162 Jun 23 07:50	2°925'33	0°49'38	max. Earth dist.	3163 Jun 06 13:14	14° Ⅲ 33'30	1.32213 AU
minimum elong	3162 Jun 23 05:52	2° © 14'44	0°49'15	max. Bartii dist.	3103 3411 00 13.11	1. 23330	1.52215110
max. Earth dist.	3162 Jun 23 02:26		1.32091 AU	superior conj	3163 Jun 07 18:46	17° Ⅱ 15'04	0°25'53
evening rise	3162 Jun 30 04:19	17° © 19'52	1.02071110	minimum elong	3163 Jun 07 17:37	17° Ⅱ 08'45	
e vennig 1150	3162 Jul 06 11:13	0°N		mmmam viong	3163 Jun 13 14:54	0.00 1.	0 20 30
desc. node	3162 Jul 25 23:19	29° Ω 44'05		evening rise	3163 Jun 14 15:13	2°909'58	
desc. node	3162 Jul 26 05:02	0°m/		evening rise	3163 Jun 29 16:10	0°Ω	
evening max el	3162 Jul 29 08:45	3° m) 14'49	26°23'19	evening max el	3163 Jul 11 02:09	14° Ω 17'36	25°06'30
retrograde	3162 Aug 12 08:09	10° m) 25'42	20 23 17	desc. node	3163 Jul 12 20:19	15°Ω53'14	25 00 50
evening set	3162 Aug 18 22:31	8° mp 37'30		retrograde	3163 Jul 25 01:37	21° Ω 22'54	
min. Earth dist.	3162 Aug 22 21:56	-	0.59541 AU	evening set	3163 Jul 30 13:45	20°Ω13'23	
inferior conj	3162 Aug 26 04:57	3° m/ 28'52		min. Earth dist.	3163 Aug 04 13:52		0.57535 AU
minimum elong	3162 Aug 26 09:03	3° m/20'51		inferior conj	3163 Aug 07 14:21	15°Ω26'53	
minimum ciong	3162 Aug 31 06:33	30°RΩ	7 7/3/	minimum elong	3163 Aug 07 14:04	15° Ω 27'22	
morning rise	3162 Sep 02 21:44	28° Ω 55'01		morning rise	3163 Aug 15 16:52	11° Ω 15'12	3 03 30
direct	3162 Sep 05 07:44	28° Ω 34'22		direct	3163 Aug 18 06:23	10°Ω55'54	
direct	3162 Sep 10 02:20	0°m)		morning max el	3163 Aug 27 03:29	15°Ω06'26	19°05'08
morning max el	3162 Sep 10 02:20 3162 Sep 13 01:29	ىبات 0 2° m 19'11	18°20'01	asc. node	3163 Sep 01 06:27	21° Ω 12'46	19 03 08
asc. node	3162 Sep 13 01:29 3162 Sep 14 09:24	3° Mp 41'45	16 2001	asc. node	3163 Sep 01 00.27 3163 Sep 06 16:10	0° m)	
morning set	3162 Sep 14 09:24 3162 Sep 29 00:27	27° Mp 42'59		morning set	3163 Sep 12 22:47	11° Mp 58'35	
morning set	-	27 IIV 42 39 0° Ω		morning set	3103 Sep 12 22.47	11 11/3033	
	3162 Sep 30 05:10	v ==		superior conj	3163 Sep 21 05:57	28° m) 19'30	1°39'41
superior conj	3162 Oct 08 05:25	15° ≏ 03'47	1°25'24	minimum elong	3163 Sep 21 03.37 3163 Sep 21 07:57	28° Th 29'08	1°39'35
			1°25'24 1°25'03	minimum etong	-	28°110/29'08	1 3933
minimum elong	3162 Oct 08 09:05	15° £ 20'34		may Faith U.	3163 Sep 22 02:53		1 20/25 411
max. Earth dist.	3162 Oct 15 18:29	28° Ω 26'22	1.40698 AU	max. Earth dist.	3163 Sep 27 22:37	10° Ω 49'47	1.38625 AU
avanina rica	3162 Oct 16 16:26	0°M 6°M 10'15		evening rise	3163 Oct 01 18:23	17° £ 35'32	
evening rise	3162 Oct 20 09:00	6°M10'15		desc. node	3163 Oct 08 19:39	29° £ 21'56	
desc. node	3162 Oct 21 22:38	8°M43'59			3163 Oct 09 05:08	0°M₊ 0°. 7	
avanin 1	3162 Nov 04 19:09	0° × 7	22022120	avanie 1	3163 Oct 30 04:51	0° ⊼ ¹ 7° • 7 !04	24041111
evening max el	3162 Nov 23 18:26	24° ₹ 17'30	25-22-20	evening max el	3163 Nov 06 07:13	7° ∡ ¹57'04	24-41.11

retrograde	3163 Nov 17 20:11	14° ∡ 740′29		max. Earth dist.	3164 Sep 09 04:29	22° m 46'57	1.36639 AU
evening set	3163 Nov 23 09:05	12° ≯ 21'38		evening rise	3164 Sep 13 01:30	0° ഫ 01'30	
min. Earth dist.	3163 Nov 27 23:44	7° ∡ °07'24	0.67539 AU		3164 Sep 13 01:10	0∘ ⊽	
asc. node	3163 Nov 28 05:39	6° ∡ 747'47		desc. node	3164 Sep 24 16:39	19° ≏ 48'22	
inferior conj	3163 Nov 28 20:52	5° ∡ '57'09	0°13'02		3164 Oct 01 10:04	0° M ₊	
minimum elong	3163 Nov 28 20:33	5° ₹ 58'14	0°12'54	evening max el	3164 Oct 18 19:30	21°MJ38'49	25°52'06
transit middle	3163 Nov 28 20:33	5° ₹ 58'14	0°12'54	retrograde	3164 Oct 31 05:27	28° ML 43° 07	
transit begin	3163 Nov 28 18:52	6° ₰ 03'47		evening set	3164 Nov 06 08:26	26°M10'40	
transit end	3163 Nov 28 22:13	5° ₹ 52'41		min. Earth dist.	3164 Nov 10 15:38	21°M31'48	0.66854 AU
morning rise	3163 Dec 04 08:05	29°M55'47		inferior conj	3164 Nov 11 23:47	19°M50'27	-0°43'41
	3163 Dec 04 05:44	30°RM		minimum elong	3164 Nov 12 00:56	19° M 46'49	0°43'11
direct	3163 Dec 08 00:27	28°M37'52		asc. node	3164 Nov 14 02:41	17°M15'26	
	3163 Dec 12 01:36	0° ∡		morning rise	3164 Nov 17 17:48	13° M ₅57'47	
morning max el	3163 Dec 15 14:06	2° ₹ 56'15	19°59'05	direct	3164 Nov 20 23:06	12°M58'10	
	3164 Jan 04 07:32	0°る		morning max el	3164 Nov 27 21:08	16°M49'05	19°02'04
desc. node	3164 Jan 04 18:53	0° ප් 43'02			3164 Dec 07 22:24	0° √ 1	
morning set	3164 Jan 11 04:19	10°る30'33	1 44006 433	morning set	3164 Dec 20 10:10	19° ∡ 15'40	
max. Earth dist.	3164 Jan 22 06:44	27° る 54'54	1.44006 AU	desc. node	3164 Dec 21 15:53	21° ∡ 11'42	
	3164 Jan 23 14:01	0° ≈		Fauth diet	3164 Dec 27 07:07	0°る	1 44072 ATT
superior coni	3164 Jan 27 14:13	6°≈28'45	1050/16	max. Earth dist.	3165 Jan 03 22:53	12° る 00'20	1.44972 AU
superior conj minimum elong	3164 Jan 27 08:58	6°≈2843 6°≈07'22		gunariar agni	3165 Jan 06 01:37	15° る 20'21	1022142
evening rise	3164 Feb 09 17:50	0 ≈0722 28°≈31'47	1 39 00	superior conj minimum elong	3165 Jan 05 16:33	13 3 2021 14° 3 44'34	
evening rise	3164 Feb 10 14:23	20 ≈3147 0° \		minimum ciong	3165 Jan 15 06:16	0°≈	1 31 30
asc. node	3164 Feb 24 04:57	22° ₩ 05'57		evening rise	3165 Jan 21 00:30	9° ≈ 21'00	
evening max el	3164 Feb 27 17:59	26°) 19'02	18°12'06	evening rise	3165 Feb 02 20:17	0° ∀	
retrograde	3164 Mar 05 04:26	29°) (43'42	10 12 00	evening max el	3165 Feb 10 05:54	9°) 43′30	18°34'59
evening set	3164 Mar 08 01:50	29° \ 00'23		asc. node	3165 Feb 10 01:59	9° ¥ 33'26	10 3 1 3 7
inferior conj	3164 Mar 14 04:53	23°) (43'57	3°38'15	retrograde	3165 Feb 16 19:47	13° ¥ 21'19	
minimum elong	3164 Mar 14 05:27	23°) 42'23	3°38'13	evening set	3165 Feb 19 23:01	12° ¥ 26′02	
min. Earth dist.	3164 Mar 16 20:46	20°)(51'41	0.63049 AU	inferior conj	3165 Feb 25 17:34	6° ¥ 51'13	3°36'30
morning rise	3164 Mar 20 08:01	17° ₩ 39'58		minimum elong	3165 Feb 25 16:34	6° ¥ 54'13	3°36'26
direct	3164 Mar 27 06:07	15° ₩ 00'07		min. Earth dist.	3165 Feb 27 17:52	4°) 27′09	0.64819 AU
desc. node	3164 Apr 01 18:03	16° ¥ 26′52		morning rise	3165 Mar 03 09:36	0°) 41′11	
morning max el	3164 Apr 10 04:22	22°) 57'20	27°47'04	_	3165 Mar 04 06:16	30° R ≈	
	3164 Apr 16 10:26	0 ° Υ		direct	3165 Mar 10 03:38	27° ≈ 50'35	
	3164 May 06 03:09	0°8			3165 Mar 16 16:45	0° ∀	
morning set	3164 May 14 11:02	15° 8 48'43		desc. node	3165 Mar 19 15:04	2° ₩ 05'08	
max. Earth dist.	3164 May 19 19:18	26° 8 53'20	1.32755 AU	morning max el	3165 Mar 23 13:54	5°) 40'45	27°13'54
	3164 May 21 06:12	Π °0			3165 Apr 11 03:44	0° Y	
				morning set	3165 Apr 28 01:31	29° Y 28'56	
superior conj	3164 May 22 03:06	1° Ⅱ 52'35			3165 Apr 28 07:54	$0^{\circ}S$	
minimum elong	3164 May 22 03:07	1° ∏ 52'42	0°00'30	max. Earth dist.	3165 May 02 16:54	8° 8 45'03	1.33735 AU
behind sun begin	3164 May 21 21:53	1° ∏ 24'25					
behind sun end	3164 May 22 08:21	2° Ⅲ 21'01		superior conj	3165 May 06 06:50	16° 8 11'59	
asc. node	3164 May 22 04:16	1° Ⅱ 58'55		minimum elong	3165 May 06 08:18	16° 8 19'44	0°28'20
evening rise	3164 May 29 03:03	16° ∏ 59'08		asc. node	3165 May 09 01:18	22° 8 04'35	
	3164 Jun 04 13:40	0°95	22222121		3165 May 12 18:44	0°П	
evening max el	3164 Jun 21 15:33 3164 Jun 28 17:19	24°548'41	23°32'31	evening rise	3165 May 13 13:59	1° ∏ 41'15 0° ©	
desc. node	3164 Jun 28 16:43	0° Ω 00'45 0° Ω		avanina may al	3165 May 29 16:04 3165 Jun 03 08:03	ი°ფ 5° © 18'22	21957100
retrograde	3164 Jul 05 06:27	1° Ω 37'56		evening max el retrograde	3165 Jun 15 23:43	11°933'26	21 3700
evening set	3164 Jul 09 07:03	1° Ω 02'27		desc. node	3165 Jun 15 14:19	11°933'05	
evening set	3164 Jul 12 02:08	30°Rூ		evening set	3165 Jun 18 16:32	11° 9 33'03	
min. Earth dist.	3164 Jul 16 01:36	27° © 53'38	0.55906 AU	min. Earth dist.	3165 Jun 27 12:30	7°930'49	0.54980 AU
inferior conj	3164 Jul 18 03:36	26°539'09		inferior conj	3165 Jun 28 01:17	7°912'55	
minimum elong	3164 Jul 17 21:35	26°5548'09	4°39'37	minimum elong	3165 Jun 27 17:04	7°524'25	
morning rise	3164 Jul 26 14:37	22°544'08		morning rise	3165 Jul 06 19:09	3°920'55	,
direct	3164 Jul 29 09:59	22°524'36		direct	3165 Jul 09 22:40	2°959'01	
morning max el	3164 Aug 08 18:37	27° © 13'00	20°11'52	morning max el	3165 Jul 21 22:11	8°935'25	21°38'28
<i>3</i>	3164 Aug 11 10:35	0°N	-	asc. node	3165 Aug 05 00:32	28° © 28'21	- *
asc. node	3164 Aug 18 03:29	9° Ω 32'04			3165 Aug 05 20:11	$0^{\circ}\Omega$	
morning set	3164 Aug 27 03:38	26° Ω 33'18		morning set	3165 Aug 11 12:41	11° Ω 20'54	
	3164 Aug 28 20:03	0° m					
				superior conj	3165 Aug 18 19:22	26° Ω 39'32	1°42'26
superior conj	3164 Sep 03 19:55	12°Mp15'11	1°44'50	minimum elong	3165 Aug 18 18:16	26° Ω 33'46	1°42'23
minimum elong	3164 Sep 03 20:11	12°M 16'33	1°44'50		3165 Aug 20 10:00	0° m y	

morning set	3167 Jul 11 11:42	11° © 09'12			3168 Jun 26 19:34	0ංම	
superior conj	3167 Jul 18 10:46	26°©14'46	1°20'00	superior conj	3168 Jul 01 22:18	11°©11'13	1°01'49
minimum elong	3167 Jul 18 08:25	26° © 01'55	1°19'41	minimum elong	3168 Jul 01 20:04	10° © 58'54	1°01'26
max. Earth dist.	3167 Jul 19 19:48	29° © 14'43	1.32708 AU	max. Earth dist.	3168 Jul 02 06:21	11° © 55'35	1.32206 AU
	3167 Jul 20 04:09	$0^{\circ}\Omega$		evening rise	3168 Jul 08 20:26	26° © 10'13	
evening rise	3167 Jul 25 14:54	11° Ω 31'43			3168 Jul 10 16:51	0 $^{\circ}$ Ω	
	3167 Aug 04 07:26	0° m ∕			3168 Jul 27 21:22	0°Щ	
desc. node	3167 Aug 16 07:43	18° m 48'31		desc. node	3168 Aug 02 04:43	7° ™ 04'47	
	3167 Aug 25 14:33	0° ⊽	2702 407	evening max el	3168 Aug 08 10:12	13° Mp 53'10	26°55'02
evening max el	3167 Aug 27 05:24	1° Ω 35'38	27°24'07	retrograde	3168 Aug 22 08:10	21° Mp 05'11	
retrograde evening set	3167 Sep 09 23:47 3167 Sep 17 04:31	8° ≙ 51'50 6° ≙ 21'07		evening set min. Earth dist.	3168 Aug 29 07:15 3168 Sep 02 00:25	18° Mp 58'21 16° Mp 19'20	0.60729 AU
min. Earth dist.	3167 Sep 17 04.31 3167 Sep 20 19:06	3° £ 23'13	0.62702 AU	inferior conj	3168 Sep 02 00:23	13° m) 37'33	
inferior conj	3167 Sep 20 15:00 3167 Sep 23 15:18	0° £ 39'56		minimum elong	3168 Sep 05 10:40	13°M)26'18	4°28'33
minimum elong	3167 Sep 23 20:53	0° ഫ 26'32		morning rise	3168 Sep 12 15:56	8° Mp 50'09	7 20 33
minimum viong	3167 Sep 24 08:02	30°R MD	2 300)	direct	3168 Sep 15 01:09	8° m/27'52	
morning rise	3167 Sep 30 14:46	25° m 31'32		asc. node	3168 Sep 21 14:55	11° m)24'59	
direct	3167 Oct 03 00:48	25° m 04'50		morning max el	3168 Sep 22 07:29	12° m 03'28	18°03'40
asc. node	3167 Oct 05 17:50	25° m 39'19			3168 Oct 04 06:58	0∘ ⊽	
morning max el	3167 Oct 09 18:16	28° m 31'44	17°51'00	morning set	3168 Oct 08 02:46	7° ჲ 03'26	
	3167 Oct 11 03:17	0∘ ⊽					
morning set	3167 Oct 25 21:18	23° ≏ 36′05		superior conj	3168 Oct 18 00:08	25° £ 10′09	1°12'21
	3167 Oct 29 12:02	0°M₊		minimum elong	3168 Oct 18 04:23	25° Ω 29'01	1°11'52
					3168 Oct 20 18:05	0°M	
superior conj	3167 Nov 06 07:21	13°M27'59	0°40'35	max. Earth dist.	3168 Oct 25 15:22	8°M19'56	1.41832 AU
minimum elong	3167 Nov 06 10:59	13°M43'20	0°40'05	desc. node	3168 Oct 29 04:04	14°M09'09	
desc. node max. Earth dist.	3167 Nov 12 07:03 3167 Nov 13 04:16	23°M22'32 24°M48'31	1.43527 AU	evening rise	3168 Oct 31 05:04 3168 Nov 08 06:21	17° M 26'59 0° √	
max. Earm dist.	3167 Nov 15 04:10 3167 Nov 16 10:01	24 11 € 46 31	1.43327 AU		3168 Nov 29 23:12	5°0 장·0	
evening rise	3167 Nov 10 10:01 3167 Nov 21 07:21	0		evening max el	3168 Dec 03 11:10	3° る 49'32	22°36'22
evening rise	3167 Dec 06 04:13	⁷ × ਜਹਾ। 0° ਰ		retrograde	3168 Dec 13 07:07	9° ප 39'57	22 30 22
evening max el	3167 Dec 21 17:35	20° ට 15'22	21°19'27	evening set	3168 Dec 17 22:57	7° る 46'20	
retrograde	3167 Dec 30 11:30	25° る 26'54		asc. node	3168 Dec 18 14:07	7° る 12'59	
asc. node	3168 Jan 01 17:05	24° る 59'33		inferior conj	3168 Dec 23 07:38	1° る 24'42	1°33'23
evening set	3168 Jan 03 15:33	23° る 49'39		minimum elong	3168 Dec 23 05:41	1° る 31'27	1°32'38
inferior conj	3168 Jan 08 23:59	17° る 34'56	2°16'50	min. Earth dist.	3168 Dec 23 03:18	1° る 39'42	0.67938 AU
minimum elong	3168 Jan 08 21:32	17° る 43'26	2°16'02		3168 Dec 24 08:16	30°R. ✓	
min. Earth dist.	3168 Jan 09 06:57	17° 云 10'52	0.67736 AU	morning rise	3168 Dec 28 12:17	25° ≯ 15'00	
morning rise	3168 Jan 14 03:19	11° る 22'19		direct	3169 Jan 02 01:46	23° 🖈 22'33	
direct	3168 Jan 19 07:35	9° る 07'03	2202426	morning max el	3169 Jan 11 05:28	28° ₹ 44'42	21°57'19
morning max el	3168 Jan 29 17:16	15° る 18'26	23°24'26	JJ.	3169 Jan 12 10:24	0°중 16°중19'21	
desc. node	3168 Feb 08 06:14 3168 Feb 10 17:31	26°る40'09 0°≈		desc. node	3169 Jan 25 03:17 3169 Feb 03 10:42	0°≈	
	3168 Mar 01 14:04	0° ∺		morning set	3169 Feb 12 22:50	0 ∞ 14° ≈ 49'33	
morning set	3168 Mar 04 19:30	5° ∺ 21'59		max. Earth dist.	3169 Feb 18 19:47	24°≈26'41	1.41309 AU
max. Earth dist.	3168 Mar 08 21:26	12°) €22'10	1.39165 AU	man. Barm dist.	3169 Feb 22 02:39	0° ∀	1.11507110
superior conj	3168 Mar 16 11:10	26°) €02'17	-1°47'47	superior conj	3169 Feb 26 13:14	7°){ 43'04	-2°03'09
minimum elong	3168 Mar 16 15:38	26°) 23′08	1°47'21	minimum elong	3169 Feb 26 15:57	7° ¥ 55′06	2°03'02
	3168 Mar 18 13:48	$0^{\circ}\mathbf{\Upsilon}$		evening rise	3169 Mar 09 02:42	26° ¥ 56′38	
evening rise	3168 Mar 25 19:27	13° Y 54'51			3169 Mar 10 18:20	0 ° \mathbf{Y}	
asc. node	3168 Mar 29 16:25	21° Υ 19'08		asc. node	3169 Mar 16 13:25	10° Y 25'36	
	3168 Apr 03 13:17	0° 8		evening max el	3169 Mar 25 09:53	22° Y 53'59	18°13'49
evening max el	3168 Apr 11 01:54	10° 8 08'29	18°40'06	retrograde	3169 Apr 01 09:39	26° Y 24'18	
retrograde	3168 Apr 19 00:22	14° 8 01'35		evening set	3169 Apr 03 22:08	25° Y 57'48	2050100
evening set	3168 Apr 21 06:30	13° 8 43'54	1057146	inferior conj	3169 Apr 10 21:48	21°Υ12'49 21°Υ05'25	2°59'08 2°58'26
inferior conj minimum elong	3168 Apr 29 00:13 3168 Apr 29 03:53	9° 8 19'52 9° 8 12'56	1°57'46 1°56'40	minimum elong min. Earth dist.	3169 Apr 11 01:09 3169 Apr 14 07:12	18° Y 14'37	2°58'26 0.59725 AU
min. Earth dist.	3168 Apr 29 03:33 3168 May 02 08:40	6° 8 49'08	0.57629 AU	min. Earth dist.	3169 Apr 18 01:44	15° Y 14° Y 15° Y 30° 4 0	0.33143 AU
desc. node	3168 May 06 05:23	4° 8 24'11	0.57027 AU	desc. node	3169 Apr 23 02:26	13° Υ 40'41	
morning rise	3168 May 06 22:06	4° 8 03'53		direct	3169 Apr 24 12:34	13° Υ 35'07	
direct	3168 May 12 14:08	2° 8 44'01		morning max el	3169 May 08 20:40	21° Υ 24'28	27°27'27
morning max el	3168 May 26 22:48	10° 8 18'24	26°27'50	5	3169 May 16 08:17	0°8	•
-	3168 Jun 11 00:45	0°II			3169 Jun 03 22:36	0°II	
morning set	3168 Jun 24 22:26	25° Ⅱ 59'35		morning set	3169 Jun 09 06:21	10° Ⅲ 39'47	
asc. node	3168 Jun 25 15:43	27° Ⅱ 31′04		asc. node	3169 Jun 12 12:44	17° Ⅱ 35'38	

:	21(0 I.m. 1(00.5)	260T04152	0020155	Double dies	2170 M 20 02-55	70T 10125	1 22202 ATT
superior conj	3169 Jun 16 09:56 3169 Jun 16 08:16	26°Ⅲ04'52 25°Ⅲ55'42		max. Earth dist. asc. node	3170 May 30 03:55 3170 May 30 09:45	7° П 12'35 7° П 44'11	1.32393 AU
minimum elong max. Earth dist.	3169 Jun 15 18:23	23 H 33 42 24° H 39'18	1.32100 AU	asc. node	3170 May 30 09.43	/ Д44 П	
max. Earth dist.	3169 Jun 18 04:37	24 П 3918	1.32100 AU	superior conj	3170 May 31 20:01	10° Ⅱ 50′27	0°14'59
evening rise	3169 Jun 23 05:59	10° 9 58'17		minimum elong	3170 May 31 20:01 3170 May 31 19:19	10° П 30'27	0°14'50
evening rise	3169 Jul 02 23:06	0°Ω		behind sun begin	3170 May 31 17:28	10° Д 36'35	0 1430
desc. node	3169 Jul 20 01:43	24°Ω08'26		behind sun end	3170 May 31 17:28 3170 May 31 21:10	10° Д 56'45	
evening max el	3169 Jul 21 07:46	25° Ω 22'29	25°53'37	evening rise	3170 Jun 07 17:34	25° I I49'19	
evening max er	3169 Jul 27 05:31	0°m	23 33 31	evening rise	3170 Jun 09 17:19	0°95	
retrograde	3169 Aug 04 07:19	2° Mp 30'48			3170 Jun 27 10:32	$0^{\circ}\Omega$	
evening set	3169 Aug 10 12:22	0° Mp 58'42		evening max el	3170 Jul 02 22:36	6° Ω 08'33	24°27'38
evening set	3169 Aug 12 07:56	30°RΩ		desc. node	3170 Jul 06 22:43	9° Ω 30'42	24 27 30
min. Earth dist.	3169 Aug 14 20:04	28° Ω 21'58	0.58667 AU	retrograde	3170 Jul 16 19:43	13° Ω 09'22	
inferior conj	3169 Aug 18 02:03	25° Ω 59'47		evening set	3170 Jul 21 17:32	$13^{\circ} \Omega 05^{\circ} 22$	
minimum elong	3169 Aug 18 04:38	25° Ω 55'02		min. Earth dist.	3170 Jul 27 09:33	9°Ω22'20	0.56779 AU
morning rise	3169 Aug 25 23:07	21°Ω35'33	3 00 40	inferior conj	3170 Jul 30 02:47	7° Ω 38'33	
direct	3169 Aug 28 10:31	21° Ω 15'31		minimum elong	3170 Jul 30 00:00	7° Ω 42'59	
morning max el	3169 Sep 05 14:28	25° Ω 09'30	18°36'36	morning rise	3170 Aug 07 09:08	3°Ω35'29	3 00 33
asc. node	3169 Sep 08 11:58	28° Ω 21'43	10 30 30	direct	3170 Aug 10 00:56	3° Ω 16'18	
ase. Houe	3169 Sep 09 17:53	0° m		morning max el	3170 Aug 19 12:12	7° Ω 40'56	19°30'56
morning set	3169 Sep 21 20:02	21° m)04'18		asc. node	3170 Aug 26 09:01	16° Ω 14'53	17 30 30
morning set	3169 Sep 26 10:33	21 m/0410 0°Ω		use. Hode	3170 Sep 03 03:03	0° m	
	5107 Sep 20 10.55	° –		morning set	3170 Sep 05 03:05	5°M)28'58	
superior conj	3169 Sep 30 14:42	7° £ 56'15	1°32'41	morning set	5170 Sep 05 21.2)	J 11/2030	
minimum elong	3169 Sep 30 17:43	8° £ 10′20	1°32'17	superior conj	3170 Sep 13 21:34	21° mp 30'58	1°42'53
max. Earth dist.	3169 Oct 07 21:36	21° Ω 08'41	1.39822 AU	minimum elong	3170 Sep 13 22:49	21° mp 37'04	
evening rise	3169 Oct 12 00:43	28° £ 13'44	1.57022 710	minimum ciong	3170 Sep 18 07:17	21 الله 37 0 ص 0°	1 42 31
evening rise	3169 Oct 12 00:43	0°M		max. Earth dist.	3170 Sep 20 01:38	° – 3° ≏ 17'35	1.37756 AU
desc. node	3169 Oct 16 01:04	4°M51'05		evening rise	3170 Sep 23 19:48	10° Ω 05'41	1.57750110
desc. node	3169 Nov 01 19:21	0° √		desc. node	3170 Oct 02 22:04	25° £ 24'26	
evening max el	3169 Nov 16 00:59	17° ×7 26'06	23°56'20	dese. Hode	3170 Oct 02 22:04 3170 Oct 05 20:07	0°M	
retrograde	3169 Nov 26 23:30	23°×752'21	25 50 20		3170 Oct 03 20:07 3170 Oct 28 10:55	0° ⊼ ¹	
evening set	3169 Dec 02 04:33	21° × 42'09		evening max el	3170 Oct 29 13:08	1° ∡ *05'51	25°12'40
asc. node	3169 Dec 05 11:09	18°×709'27		retrograde	3170 Nov 10 11:42	8°×00'02	23 12 10
min. Earth dist.	3169 Dec 06 23:44	16° х 0927 16° х 08'39	0.67784 AU	evening set	3170 Nov 16 06:42	5°×734'41	
inferior conj	3169 Dec 07 14:49	15° 🖈 17'28	0°43'51	min. Earth dist.	3170 Nov 20 18:00	0° ∡ ³35'27	0.67288 AU
minimum elong	3169 Dec 07 13:48	15° ₹ 1726	0°43'25	mm. Darm dist.	3170 Nov 21 04:54	30°RM	0.07200710
morning rise	3169 Dec 12 23:04	9°×12'37	0 13 23	inferior conj	3170 Nov 21 19:50	29°M11'15	-0°10'38
direct	3169 Dec 16 22:39	7° × ⁷ 42'49		minimum elong	3170 Nov 21 19:96 3170 Nov 21 20:06	29°M10'23	
morning max el	3169 Dec 25 00:26	12° ₹ 21'35	20°38'39	transit middle	3170 Nov 21 20:06	29°M10'23	
morning max or	3170 Jan 07 16:06	0°る	20 3037	transit begin	3170 Nov 21 17:59	29°M17'17	0 10 30
desc. node	3170 Jan 12 00:19	6° る 22'41		transit end	3170 Nov 21 22:13	29°M03'30	
morning set	3170 Jan 23 01:17	23° る 10'39		asc. node	3170 Nov 22 08:13	28°M31'04	
morning sec	3170 Jan 27 09:43	0°≈		morning rise	3170 Nov 27 09:44	23°M13'26	
max. Earth dist.	3170 Feb 01 01:30	7°≈26'56	1.43159 AU	direct	3170 Nov 30 21:03	22°M03'55	
man. Darun dibe.	31,0100 01 01.50	, 10 20 00	1.15107110	morning max el	3170 Dec 08 03:19	26°M09'28	19°32'56
superior conj	3170 Feb 07 15:27	18° ≈ 16'35	-2°05'40	morning max or	3170 Dec 11 12:57	0° √	19 32 30
minimum elong	3170 Feb 07 13:37	18° ≈ 08'55		greatest brilliancy	3170 Dec 21 07:51	13° √ 41'45	-0.7m
	3170 Feb 14 12:20	0° ∀		desc. node	3170 Dec 29 21:20	26° х 43′24	
evening rise	3170 Feb 19 18:25	9° ₩ 12'58			3171 Jan 01 00:20	0°る	
asc. node	3170 Mar 03 10:26	29°) (01'42		morning set	3171 Jan 01 22:22	1° る 25'08	
	3170 Mar 04 02:09	0°Υ		max. Earth dist.	3171 Jan 14 13:57	21° る 11'14	1.44492 AU
evening max el	3170 Mar 08 21:41	6° Ƴ 00'40	18°07'15				
retrograde	3170 Mar 15 10:16	9° Y 23'46		superior conj	3171 Jan 18 15:34	27° る 40'04	-1°50'22
evening set	3170 Mar 18 04:23	8° Y 46'59		minimum elong	3171 Jan 18 08:05	27°る10'05	
inferior conj	3170 Mar 24 13:49	3° Υ 41'34	3°30'50		3171 Jan 20 02:23	0° ≈	
minimum elong	3170 Mar 24 15:28	3° Y 37'23	3°30'40	evening rise	3171 Feb 01 14:09	20° ≈ 34'59	
min. Earth dist.	3170 Mar 27 13:39	0° Ƴ 40'39	0.61875 AU	Ü	3171 Feb 07 04:39	0°) €	
	3170 Mar 28 06:48	30° ₹	3.2 - 10	asc. node	3171 Feb 18 07:29	16° ¥ 57'28	
morning rise	3170 Mar 31 01:02	27°) (43'02		evening max el	3171 Feb 20 10:17	19° ¥ 20′05	18°19'41
direct	3170 Apr 06 21:34	25° H 16'12		retrograde	3171 Feb 26 21:22	22°) 49'20	
desc. node	3170 Apr 09 23:28	25°) (43'19		evening set	3171 Mar 01 21:04	22° H 01'12	
Lost. Hour	3170 Apr 07 23:28 3170 Apr 17 11:40	25 γ (451)		inferior conj	3171 Mar 07 20:06	16°) 36'48	3°39'33
morning max el	3170 Apr 21 00:54	3° Υ 13'21	27°50'49	minimum elong	3171 Mar 07 20:00 3171 Mar 07 19:57	16° X 3048	3°39'33
morning max ci	3170 May 10 20:08	0° 8	2, 5072	min. Earth dist.	3171 Mar 10 05:31	13° X 54'35	0.63835 AU
morning set	3170 May 24 09:35	25° 8 03'44		morning rise	3171 Mar 13 18:00	10°) €29'28	3.03030 110
morning set	3170 May 26 18:49	0°II		direct	3171 Mar 13 18:00 3171 Mar 20 15:08	7°) 43'07	
	51.0 may 20 10.47	~ ~		311000	11,11.1m 20 15.00	, ,(150)	

ž	•		Č	` ''		, •	C
desc. node	3171 Mar 27 20:30	10° ¥ 12'33		morning rise	3172 Feb 25 01:16	23° ≈ 40'02	
morning max el	3171 Apr 03 09:18		27°36'59	direct	3172 Mar 02 15:47	20°≈48'40	
morning max er	3171 Apr 05 03:16 3171 Apr 15 03:45	0°Υ	27 3037	desc. node	3172 Mar 13 17:33	26°≈33'53	
	3171 May 03 12:45	0°8		morning max el	3172 Mar 15 17:35 3172 Mar 15 19:05	28°≈32'47	26°50'43
	3171 May 03 12:43	9° 8 02'32		morning max ci	3172 Mar 17 04:42	28 ≈ 3247 0° H	20 30 43
morning set	•		1.33112 AU			0°Υ	
max. Earth dist.	3171 May 13 06:47	19-021-16	1.33112 AU	. ,	3172 Apr 07 22:43		
	2171 1 1 0 2 20	250	0010116	morning set	3172 Apr 20 15:11	22°Υ26'26	
superior conj	3171 May 16 02:39	25° 8 21'02			3172 Apr 24 12:00	0°8	
minimum elong	3171 May 16 03:16	25° 8 24'18	0°12'09	max. Earth dist.	3172 Apr 24 23:25	0° 8 57'09	1.34288 AU
behind sun begin	3171 May 15 23:46	25° 8 05'36					
behind sun end	3171 May 16 06:46	25° 8 43'02		superior conj	3172 Apr 29 03:45	9° 8 30'21	
asc. node	3171 May 17 06:46	27° 8 51'51		minimum elong	3172 Apr 29 05:52	9° 8 41'23	0°40'23
	3171 May 18 06:35	$\Pi^{\circ}0$		asc. node	3172 May 03 03:49	17° 8 54'45	
evening rise	3171 May 23 05:14	10° Ⅱ 36′01		evening rise	3172 May 06 15:08	25° 8 12'28	
	3171 Jun 02 05:31	$0 {\circ} \mathfrak{S}$			3172 May 08 23:02	$\Pi^{\circ}0$	
evening max el	3171 Jun 14 12:14	16° © 34'39	22°51'11	evening max el	3172 May 26 08:31	27° Ⅱ 13'35	21°19'19
desc. node	3171 Jun 23 19:44	22° © 35'50			3172 May 29 15:14	0_{\circ} වෙ	
retrograde	3171 Jun 27 19:44	23° © 12'26		retrograde	3172 Jun 07 09:38	3° © 07'51	
evening set	3171 Jul 01 05:09	22° © 47'11		evening set	3172 Jun 09 17:24	2° © 55'27	
min. Earth dist.	3171 Jul 08 20:52	19° © 23'51	0.55409 AU	desc. node	3172 Jun 09 16:46	2° © 55'44	
inferior conj	3171 Jul 10 08:26	18° © 32'37	-4°14'54		3172 Jun 17 04:49	30° Ŗ Ⅱ	
minimum elong	3171 Jul 10 00:46	18° 5 43'42	4°13'15	inferior conj	3172 Jun 19 02:46	28° Ⅲ 56′22	-2°41'21
morning rise	3171 Jul 18 22:41	14°9540'55		minimum elong	3172 Jun 18 19:34	29° Ⅱ 06′27	
direct	3171 Jul 21 20:48	14° © 20'57		min. Earth dist.	3172 Jun 19 08:24	28° ∏ 48'28	0.54865 AU
morning max el	3171 Aug 01 22:30	19° © 29'14	20°46'29	morning rise	3172 Jun 27 22:13	24° Ⅱ 59'02	
8	3171 Aug 10 07:50	$0^{\circ}\Omega$		direct	3172 Jul 01 06:55	24° Ⅱ 34'31	
asc. node	3171 Aug 13 06:03	4° Ω 50'57			3172 Jul 13 06:54	0∘ ©	
morning set	3171 Aug 21 04:22	20° Ω 09'35		morning max el	3172 Jul 13 21:32	0° © 33'19	22°19'51
morning sec	3171 Aug 25 22:07	0° m		asc. node	3172 Jul 30 03:05	23° © 59'31	22 1,01
	517111 48 20 22.07	v .y		ase. node	3172 Aug 02 04:20	0° Ω	
superior conj	3171 Aug 28 16:02	5° mp 40'12	1°44'39	morning set	3172 Aug 04 14:32	5° Ω 00'04	
minimum elong	3171 Aug 28 15:40	5° mp 38'19		morning set	317271ug 0+ 14.32	3 000004	
max. Earth dist.	3171 Sep 02 09:25	15° Mp 08'32	1.35871 AU	superior conj	3172 Aug 11 18:28	20°Ω12'56	1°30'28
evening rise	3171 Sep 02 07:23 3171 Sep 06 10:58	22° m 54'37	1.556/1 AC	minimum elong	3172 Aug 11 16:56	20° Ω 04'47	
evening rise	3171 Sep 00 10.38 3171 Sep 10 08:34	ე∘ <u>ი</u>		max. Earth dist.	3172 Aug 11 10:30 3172 Aug 15 01:40		1.34328 AU
desc. node	3171 Sep 10 08:34 3171 Sep 19 19:05	0 == 15° £ 44'13		max. Earth dist.	=	0°m)	1.54526 AU
desc. node	3171 Sep 19 19:03 3171 Sep 29 13:17	0°M		avanina risa	3172 Aug 16 11:36	0 mg/28′08	
	•		26010100	evening rise	3172 Aug 19 17:40		
evening max el	3171 Oct 12 01:26	14°M46'44		1 1	3172 Sep 01 23:56	0∘ ⊽	
retrograde	3171 Oct 24 19:03	21°M.57'38		desc. node	3172 Sep 05 16:07	5° £ 43'33	27004142
evening set	3171 Oct 31 03:37	19°M20'46	0.66451.411	evening max el	3172 Sep 23 14:01	28° ≏ 20'18	2/°04'43
min. Earth dist.	3171 Nov 04 07:45		0.66451 AU	_	3172 Sep 25 09:39	0°M	
inferior conj	3171 Nov 05 20:50	13°M03'22		retrograde	3172 Oct 06 20:42	5°M37'28	
minimum elong	3171 Nov 05 22:41	12°M57'43	1°07'54	evening set	3172 Oct 13 16:59	2°M55'18	
asc. node	3171 Nov 09 05:16	9°M15'10			3172 Oct 16 19:18	30° ₹ Ω	
morning rise	3171 Nov 11 18:16	7° M ₁5'11		min. Earth dist.	3172 Oct 17 14:34	29° £ 07'35	0.65267 AU
direct	3171 Nov 14 19:25	6°M22'23		inferior conj	3172 Oct 19 15:39	26° ≏ 48'49	-2°08'43
morning max el	3171 Nov 21 13:10	10°M05'20	18°42'36	minimum elong	3172 Oct 19 19:12	26° ≏ 38'46	2°07'20
	3171 Dec 05 19:39	0° ⊼		morning rise	3172 Oct 25 22:16	21° ≏ 13'22	
morning set	3171 Dec 12 14:38	10° ∡ ¹42'57		asc. node	3172 Oct 26 02:19	21° ≏ 08'37	
desc. node	3171 Dec 16 18:22	17° ∡ 16'45		direct	3172 Oct 28 15:35	20° £ 33'26	
	3171 Dec 24 20:30	0°ප		morning max el	3172 Nov 04 03:42	24° ≙ 03'15	18°08'48
					3172 Nov 08 23:53	0° M.	
superior conj	3171 Dec 28 20:34	6° ප 16'55	-1°16'05	morning set	3172 Nov 22 12:15	21°M29'22	
minimum elong	3171 Dec 28 11:51	5° る 42'43	1°15'05		3172 Nov 27 16:58	0° ∡ ¹	
max. Earth dist.	3171 Dec 28 07:16	5° る 24'44	1.45158 AU	desc. node	3172 Dec 02 15:25	7° ∡ 758'18	
	3172 Jan 12 19:57	0°≈					
evening rise	3172 Jan 13 10:49	0°≈59'34		superior conj	3172 Dec 07 00:55	14° ∡ ¹58'39	-0°29'34
greatest brilliancy	3172 Jan 20 23:07	13° ≈ 02'22	-0.9m	minimum elong	3172 Dec 06 21:10	14° ∡ °43'47	0°29'03
-	3172 Feb 01 10:23	0°) €		max. Earth dist.	3172 Dec 10 02:42	19° ∡ ¹49'55	1.45085 AU
evening max el	3172 Feb 03 21:12	2°)(47'01	18°50'09		3172 Dec 16 14:35	0°ರ	
asc. node	3172 Feb 05 04:32	4°) €01'20		evening rise	3172 Dec 23 09:39	10° る 33'50	
retrograde	3172 Feb 10 15:01	6°) 33'44		greatest brilliancy	3173 Jan 05 03:04	0°≈07'47	-0.7m
evening set	3172 Feb 13 20:56	5°) 33'16		5 · · · · · · · · · ·	3173 Jan 05 01:00	0°≈	
	3172 Feb 19 10:06	30°R≈		evening max el	3173 Jan 17 04:17	16°≈17'05	19°37'14
inferior conj	3172 Feb 19 10:00 3172 Feb 19 12:49	29°≈51'36	3°31'09	asc. node	3173 Jan 22 01:35	19°≈59'00	., ., .,
minimum elong	3172 Feb 19 11:18	29°≈56'17		retrograde	3173 Jan 24 12:05	20°≈31'11	
min. Earth dist.	3172 Feb 21 06:38		0.65453 AU	evening set	3173 Jan 28 01:23	20 ≈ 31 11 19° ≈ 17'14	
mm. Darm dist.	51,2100 21 00.30	2, 7042 20	5.05 155 AU	croming sor	5175 Juli 20 01.25	1, , , , , , , , , , , , , , , , , , ,	

3174 Dec 27 16:05

3175 Jan 02 00:25

evening set

inferior conj

17°る05'14

10°る46'51 1°59'13

3174 Jan 15 10:45

3174 Jan 17 17:20

inferior conj

30°Rる

26°る59'46 2°38'37

min. Earth dist.

inferior conj

3176 Nov 29 19:05

3176 Nov 30 14:37

9°**尽**38'15 0.67619 AU

0°21'18

8°**∡**³32'56

3175 Dec 13 01:36

3175 Dec 13 16:41

asc. node

30°R*x*7

29°**∡**19'52

	2176 N 20, 14.06	00.724140	0921105		2177 N 07 11.52	200p m	
minimum elong	3176 Nov 30 14:06 3176 Dec 06 01:01	8° ₹34'40 2° ₹30'34	0°21'05	avanina aat	3177 Nov 07 11:53	30°RM 28°M47'48	
morning rise direct		2 x ·3034 1° x 709'33		evening set	3177 Nov 09 03:25	24°M03'42	0.66982 AU
morning max el	3176 Dec 09 19:14 3176 Dec 17 11:43	5° ₹32'43	20°08'50	min. Earth dist. inferior conj	3177 Nov 13 11:39 3177 Nov 14 18:11	24 11603 42 22°M26'39	
morning max er	3177 Jan 04 13:40	ップシュ43 0°る	20 06 30		3177 Nov 14 18:11 3177 Nov 14 19:05	22°M23'46	
daga mada	3177 Jan 04 13.40 3177 Jan 06 02:45	0 3 2° る 19'41		minimum elong		20°M20'34	0 3427
desc. node		13° る 56'50		asc. node	3177 Nov 16 10:45		
morning set	3177 Jan 13 17:13 3177 Jan 23 22:36	0°≈		morning rise	3177 Nov 20 11:04	16°M32'40 15°M30'35	
max. Earth dist.	3177 Jan 24 06:34	0 ≈ 0°≈31'51	1.43812 AU	direct	3177 Nov 23 17:54 3177 Nov 30 17:47	19°M24'46	19°09'34
max. Earth dist.	31// Jan 24 00.34	0 ≈3131	1.43612 AU	morning max el		19 11624 46 0° 🗷	19 09 34
aumorior coni	3177 Jan 29 22:58	9° ≈ 44'21	2901124	marning act	3177 Dec 09 01:40 3177 Dec 23 20:14	0° x ¹ 22° x ¹32'49	
superior conj	3177 Jan 29 22.38 3177 Jan 29 18:36	9°≈26'26		morning set desc. node			
minimum elong		9° ≈ 2626	2 01 23	desc. node	3177 Dec 23 23:48	22°矛46'41 0°る	
	3177 Feb 10 23:18			E 4 E 4	3177 Dec 28 15:02		1 44072 411
evening rise	3177 Feb 11 20:03	1° ∺ 29'34 24° ∺ 04'36		max. Earth dist.	3178 Jan 06 22:02	14° る 33'18	1.44873 AU
asc. node	3177 Feb 25 13:01	28° H 59'31	10010115		2170 I 00 12-24	100=742127	1927157
evening max el	3177 Mar 01 14:11	28°π39'31 0° Υ	18°10'15	superior conj	3178 Jan 09 13:24	18° 3 43'37	
	3177 Mar 02 16:13			minimum elong	3178 Jan 09 04:32	18° පි 08'31	1°3/08
retrograde	3177 Mar 08 00:49	2° Υ 23'17			3178 Jan 16 14:41	0°≈	
evening set	3177 Mar 10 21:26	1° Y 41'37		evening rise	3178 Jan 24 06:15	12°≈27'58	
	3177 Mar 13 10:56	30° ₹		_	3178 Feb 04 00:07	0° ∀	
inferior conj	3177 Mar 17 01:59	26° ∺ 27'55	3°36'54	asc. node	3178 Feb 12 10:03	11°) 40′14	
minimum elong	3177 Mar 17 02:51	26° ∺ 25'38	3°36'51	evening max el	3178 Feb 13 02:22	12° ∺ 23′08	18°30'26
min. Earth dist.	3177 Mar 19 20:01	23°) 32′55	0.62755 AU	retrograde	3178 Feb 19 15:17	15° ¥ 58′28	
morning rise	3177 Mar 23 07:07	20° ∺ 25'12		evening set	3178 Feb 22 17:34	15° ∺ 05'04	
direct	3177 Mar 30 05:05	17°) 48′25		inferior conj	3178 Feb 28 13:10	9°) 32'47	3°37'47
desc. node	3177 Apr 04 01:56	18° ¥ 56′25		minimum elong	3178 Feb 28 12:22	9°) 35′08	3°37'45
morning max el	3177 Apr 13 04:43	25°) 45′34	27°49'12	min. Earth dist.	3178 Mar 02 15:48	7°) €03'41	0.64574 AU
	3177 Apr 17 02:48	0° Ƴ		morning rise	3178 Mar 06 06:36	3° ∺ 23'17	
	3177 May 07 12:05	9° 8		direct	3178 Mar 13 01:35	0° ℋ 33'27	
morning set	3177 May 17 06:07	18° 8 23'24		desc. node	3178 Mar 21 23:00	4° ₩ 18'13	
max. Earth dist.	3177 May 22 16:58	29° 8 44'37	1.32647 AU	morning max el	3178 Mar 26 14:10	8° 升 25'41	27°20'53
	3177 May 22 19:51	$\Pi^{\circ}0$			3178 Apr 12 08:24	0 ° Υ	
					3178 Apr 29 19:33	$8^{\circ 0}$	
superior conj	3177 May 24 20:37	4° Ⅲ 22'41	0°03'40	morning set	3178 Apr 30 22:12	2° 8 09'18	
minimum elong	3177 May 24 20:27	4° Ⅱ 21'44	0°03'37	max. Earth dist.	3178 May 05 16:12	11° 8 41'59	1.33559 AU
behind sun begin	3177 May 24 15:21	3° Ⅱ 54'08			•		
behind sun end	3177 May 25 01:33	4° Ⅱ 49'22		superior conj	3178 May 09 01:13	18° 8 45'33	-0°24'18
asc. node	3177 May 24 12:18	3° Ⅱ 37'38		minimum elong	3178 May 09 02:27	18° 8 52'06	0°24'02
evening rise	3177 May 31 19:51	19° Ⅱ 26'57		asc. node	3178 May 11 09:21	23° 8 44'18	
C	3177 Jun 05 23:37	0ം ഉ			3178 May 14 07:40	0° Ⅱ	
evening max el	3177 Jun 24 18:51	27° © 55'44	23°47'00	evening rise	3178 May 16 07:04	4° Ⅱ 10′55	
Ü	3177 Jun 27 02:28	$0^{\circ}\Omega$		Z .	3178 May 30 11:37	0°©	
desc. node	3177 Jul 01 01:09	2°Ω43'12		evening max el	3178 Jun 06 10:19	8° © 23'23	22°10'44
retrograde	3177 Jul 08 11:38	4°Ω48'24		desc. node	3178 Jun 17 22:11	14°5541'00	
evening set	3177 Jul 12 17:54	4° £ 08′29		retrograde	3178 Jun 19 06:36	14°9545'12	
min. Earth dist.	3177 Jul 19 05:09	1° Ω 04'16	0.56110 AU	evening set	3178 Jun 22 03:17	14°527'01	
min. Darm digt.	3177 Jul 20 23:44	30°Rூ	0.00110110	min. Earth dist.	3178 Jun 30 16:02	10°5947'06	0.55063 AU
inferior conj	3177 Jul 21 11:39	29°541'53	-4°47'31	inferior conj	3178 Jul 01 11:05	10°520'19	
minimum elong	3177 Jul 21 06:24	29° 9 49'51		minimum elong	3178 Jul 01 02:48	10° © 31'59	
morning rise	3177 Jul 29 21:29	25°945'11		morning rise	3178 Jul 10 04:08	6°\$29'08	5 5501
direct	3177 Aug 01 15:56	25°\$25'46		direct	3178 Jul 13 06:05	6°907'55	
direct	3177 Aug 01 15:30 3177 Aug 11 15:32	0°Ω		morning max el	3178 Jul 25 00:05	11°936'44	21°24'30
morning max el	3177 Aug 11 13:32 3177 Aug 11 18:46	0° Ω 07'28	20°00'40	asc. node	3178 Aug 07 08:36	0°Ω16'16	21 24 30
	•	11° Ω 24'59	20 00 40	asc. Houc	•	0°Ω	
asc. node	3177 Aug 20 11:32				3178 Aug 07 05:01		
morning set	3177 Aug 29 21:11	29° Ω 02'29		morning set	3178 Aug 14 05:43	13° Ω 48'16	
	3177 Aug 30 08:30	0° ™			2170 4 21 12 22	200 000122	1042112
	2177 9 07 15 10	1.40 m. 4015 5	104425	superior conj	3178 Aug 21 13:33	29° Ω 09'32	
superior conj	3177 Sep 06 15:18	14° Mp 48'55	1°44'35	minimum elong	3178 Aug 21 12:37	29° Ω 04'44	1~43'11
minimum elong	3177 Sep 06 15:49	14° Mp 51'30	1°44'34	n 4 2	3178 Aug 21 23:17	0° m/y	1 25164 : **
max. Earth dist.	3177 Sep 12 05:12	25° m/42'04	1.36920 AU	max. Earth dist.	3178 Aug 25 16:18	7° m 33'49	1.35164 AU
	3177 Sep 14 12:22	0∘ ⊽		evening rise	3178 Aug 29 23:14	15° m 56'17	
evening rise	3177 Sep 16 00:57	2° ≏ 47'14			3178 Sep 06 18:09	0∘ ⊽	
desc. node	3177 Sep 27 00:29	21° ≙ 25'12		desc. node	3178 Sep 13 21:30	11° ≏ 37'15	
	3177 Oct 02 14:47	0° M			3178 Sep 27 02:58	0°M	
evening max el	3177 Oct 21 19:23	24°M16'45	25°42'14	evening max el	3178 Oct 04 07:42	7°M54'59	26°40'30
	3177 Oct 29 06:21	0° ∡ ¹		retrograde	3178 Oct 17 07:21	15°M09'43	
retrograde	3177 Nov 03 02:26	1° ∡ 18'35		evening set	3178 Oct 23 21:25	12°M29'19	

min. Earth dist.	3178 Oct 27 22:34	8°M21'21	0.65992 AU	min. Earth dist.	3179 Oct 11 01:43	22° ≙ 24'50	0.64649 AU
inferior conj	3178 Oct 29 16:47	6°M16'06	-1°34'01	inferior conj	3179 Oct 13 08:12	19° ≏ 56'52	-2°34'13
minimum elong	3178 Oct 29 19:21	6°ML08'28	1°32'58	minimum elong	3179 Oct 13 12:26	19° ≏ 45'20	2°32'39
asc. node	3178 Nov 03 07:49	1°M29'12		morning rise	3179 Oct 19 19:10	14° ≏ 28'07	
morning rise	3178 Nov 04 17:58	0°M33'15		asc. node	3179 Oct 21 04:51	14° ≏ 00'19	
	3178 Nov 06 02:09	30° ₹ Ω		direct	3179 Oct 22 09:47	13° ≏ 52'42	
direct	3178 Nov 07 15:30	29° £ 46'27		morning max el	3179 Oct 28 21:45	17° ≏ 19'52	17°59'40
	3178 Nov 09 05:16	0°M			3179 Nov 07 02:43	0° ™	
morning max el	3178 Nov 14 06:00	3°M22'30	18°26'13	morning set	3179 Nov 15 10:17	13°M49'29	
	3178 Dec 02 11:49	0° ∡ 7			3179 Nov 25 04:32	0° ∡ ¹	
morning set	3178 Dec 04 00:41	2° ₹ 28'05		desc. node	3179 Nov 27 17:50	4° ₹ 08'14	
desc. node	3178 Dec 10 20:49	13° ⊀ 24'05			2170 N 20 01 50	(0. 7 1712(0000100
	2170 D 10 15 24	270 715106	0057100	superior conj	3179 Nov 29 01:59	6° ₹17'26	
superior conj	3178 Dec 19 15:24 3178 Dec 19 08:16	27° х 15′06 26° х 47′09	0°56'15	minimum elong	3179 Nov 29 00:53 3179 Nov 28 16:05	6° х 12'59 5° х 37'42	0°08'59
minimum elong max. Earth dist.	3178 Dec 19 08.16 3178 Dec 20 16:46	28° 🖈 54'40	1.45216 AU	behind sun begin behind sun end	3179 Nov 28 16.03 3179 Nov 29 09:40	5 x ·3/42 6° x ⁷ 48'14	
max. Earm dist.	3178 Dec 20 16.46 3178 Dec 21 09:25	28 x・34 40 0°る	1.43210 AU	max. Earth dist.	3179 Nov 29 09.40 3179 Dec 03 11:32	13° ∡ °17′24	1.44820 AU
arranina riaa	3178 Dec 21 09.23 3179 Jan 04 17:10	0 3 22° る 29'57		max. Earm dist.	3179 Dec 03 11.32 3179 Dec 14 04:36	13 x ·1/24 0°る	1.44620 AU
evening rise	3179 Jan 04 17:10 3179 Jan 09 11:15	0° ≈		evening rise	3179 Dec 14 04.36 3179 Dec 15 08:53	0 る 1° る 49'03	
greatest brilliancy	3179 Jan 14 17:07	0 ≈ 8°≈13'25	-0.8m	greatest brilliancy	3179 Dec 13 08:33 3179 Dec 29 15:48	1 34903 23° る 30'21	-0.6m
evening max el	3179 Jan 27 11:48	25°≈51'41	19°08'10	greatest offinancy	3180 Jan 03 04:05	0°≈	-0.0111
asc. node	3179 Jan 30 07:05	28°≈18'02	17 00 10	evening max el	3180 Jan 10 16:46	0 ~ 9°≈22'51	20°01'47
retrograde	3179 Feb 03 10:51	29°≈49'21		asc. node	3180 Jan 17 04:08	13° ≈ 43'43	20 01 47
evening set	3179 Feb 06 19:40	28°≈43'21		retrograde	3180 Jan 18 08:40	13°≈51'28	
inferior conj	3179 Feb 12 09:19	22°≈54'43	3°23'33	evening set	3180 Jan 22 01:26	12°≈31'40	
minimum elong	3179 Feb 12 07:24	23°≈00'50	3°23'15	inferior conj	3180 Jan 27 11:33	6°≈29'14	2°57'45
min. Earth dist.	3179 Feb 13 20:39	21°≈02'11	0.66016 AU	minimum elong	3180 Jan 27 09:05	6°≈37'31	2°57'09
morning rise	3179 Feb 17 18:50	16°≈41'55	0.00010710	min. Earth dist.	3180 Jan 28 08:51	5°≈17'46	0.67050 AU
direct	3179 Feb 24 04:43	13° ≈ 52'39		morning rise	3180 Feb 01 16:31	0°≈15'32	0.07000110
desc. node	3179 Mar 08 20:03	21°≈17'39			3180 Feb 01 23:32	30°Rる	
morning max el	3179 Mar 09 00:08	21°≈27'55	26°23'11	direct	3180 Feb 07 13:38	27° る 37'55	
5 5	3179 Mar 16 10:33	0°) €			3180 Feb 13 22:13	0° ≈	
	3179 Apr 05 13:06	$0^{\circ}\Upsilon$		morning max el	3180 Feb 19 08:55	4° ≈ 41'01	25°05'20
morning set	3179 Apr 14 02:09	15° Ƴ 15'13		desc. node	3180 Feb 23 17:05	9° ≈ 27'12	
max. Earth dist.	3179 Apr 18 04:07	23° Y 05'37	1.34928 AU		3180 Mar 09 20:06	0° ∀	
	3179 Apr 21 15:05	0°8		morning set	3180 Mar 26 13:12	27° ∺ 27'49	
	-			-	3180 Mar 27 22:58	$0^{\circ}\Upsilon$	
superior conj	3179 Apr 22 23:09	2° 8 43'34	-0°52'58	max. Earth dist.	3180 Mar 30 04:44	4° Y 06'55	1.36736 AU
minimum elong	3179 Apr 23 01:55	2° 8 57'46	0°52'26				
asc. node	3179 Apr 28 06:23	13° 8 44'02		superior conj	3180 Apr 05 11:36	16° Y ′09′23	-1°20'36
evening rise	3179 Apr 30 15:35	18° 8 41'12		minimum elong	3180 Apr 05 15:40	16° Y ′29′28	1°19'59
	3179 May 06 08:00	$\Pi^{\circ}0$			3180 Apr 12 09:12	0° 8	
evening max el	3179 May 19 10:58	19° Ⅱ 15′02	20°44'16	evening rise	3180 Apr 13 19:15	2° 8 51'47	
retrograde	3179 May 30 19:41	24° Ⅱ 47'40		asc. node	3180 Apr 14 03:25	3° 8 32'47	
evening set	3179 Jun 01 21:44	24° Ⅱ 37'11			3180 Apr 30 05:22	$\Pi^{\circ}0$	
desc. node	3179 Jun 04 19:14	23° Ⅱ 50'43		evening max el	3180 Apr 30 23:47	0° Ⅱ 46′25	19°35'02
inferior conj	3179 Jun 11 04:37	20° Ⅱ 39'39		retrograde	3180 May 10 14:33	5° Ⅱ 26′05	
minimum elong	3179 Jun 10 23:22	20° Ⅱ 47'10		evening set	3180 May 12 14:27	5° Ⅱ 14'55	
min. Earth dist.	3179 Jun 12 04:10	20° Ⅱ 05'57	0.54921 AU	inferior conj	3180 May 21 06:51	1° Ⅱ 10'59	
morning rise	3179 Jun 20 00:29	16° Ⅱ 33'44		minimum elong	3180 May 21 07:09	1° Ⅱ 10'31	0°06'46
direct	3179 Jun 23 15:25	16° Ⅱ 05'28	22002110	transit middle	3180 May 21 07:09	1° Ⅱ 10′31	0°06'46
morning max el	3179 Jul 06 19:31	22° Ⅱ 25'39	23°03'10	transit begin	3180 May 21 03:36	1° I I16'08	
	3179 Jul 13 10:54	0.20 0.20		transit end	3180 May 21 10:41	1° Ⅱ 04'53	
asc. node	3179 Jul 25 05:39	19°535'54		desc. node	3180 May 21 16:16	0° Ⅱ 56′00	
morning set	3179 Jul 29 16:42	28°541'11		· P. d. II.	3180 May 23 03:35	30°R8	0.55741.411
	3179 Jul 30 07:39	0 ° Ω		min. Earth dist. morning rise	3180 May 23 18:13 3180 May 29 21:10	29° 8 37'12 26° 8 34'17	0.55741 AU
superior conj	3179 Aug 05 18:30	13° Ω 49'45	1°35'28	direct	3180 May 29 21:10 3180 Jun 03 09:21	25° 8 48'41	
minimum elong	3179 Aug 05 16:37	13° Ω 39'41	1°35'28 1°35'19	uncei	3180 Jun 03 09:21 3180 Jun 14 01:35	0° Ⅱ	
max. Earth dist.	3179 Aug 03 10.37 3179 Aug 08 12:14	13 δί 3941 19° Ω 37'57	1.33783 AU	morning max el	3180 Jun 17 09:48		24°45'32
evening rise	3179 Aug 08 12.14 3179 Aug 13 11:12	19 8€ 3737 29° Ω 44'58	1.55/05 AU	morning max ci	3180 Jul	2 п эгэ4 0° ©	4T 7JJ4
evening fise	3179 Aug 13 11:12 3179 Aug 13 14:14	0°M)		asc. node	3180 Jul 11 02:40	9° © 16'20	
	3179 Aug 13 14:14 3179 Aug 30 19:43	0° ت		morning set	3180 Jul 11 02:40 3180 Jul 13 04:29	13°936'04	
desc. node	3179 Aug 30 19:43 3179 Aug 31 18:32	0 — 1° Ω 25'22			2100041 10 04.2)	.5 -5004	
evening max el	3179 Sep 16 19:46	21° ⊆ 21'04	27°17'12	superior conj	3180 Jul 20 03:40	28° © 41'29	1°22'24
retrograde	3179 Sep 30 06:41	28° £ 39'43	· ·	minimum elong	3180 Jul 20 01:20	28°928'48	1°22'05
evening set	3179 Oct 07 06:47	25° ♀ 57'35			3180 Jul 20 18:05	0°Ω	
3		2.20					

max. Earth dist.	3180 Jul 21 16:38		1.32817 AU	evening rise	3181 Jul 11 13:49	28° © 39'14	
evening rise	3180 Jul 27 09:04	14° Ω 02'23			3181 Jul 12 05:20	$\Omega^{\circ}\Omega$	
	3180 Aug 04 16:28	0°Mp			3181 Jul 28 22:41	0° m/y	
desc. node	3180 Aug 17 15:33	20° m 39'12		desc. node	3181 Aug 04 12:34	9° Mp 04'48	25001120
	3180 Aug 25 00:59	0∘ ʊ	25025120	evening max el	3181 Aug 11 11:39	16° Mp 47'08	27°01'28
evening max el	3180 Aug 29 05:58	4° £ 22'44	27°25'39	retrograde	3181 Aug 25 08:59	23° M 59'26	
retrograde	3180 Sep 11 23:33	11° Ω 39'05		evening set	3181 Sep 01 09:45	21° m/48'09	
evening set	3180 Sep 19 04:16	9° Ω 06'07		min. Earth dist.	3181 Sep 05 01:55	19° Mp 07'24	0.61040 AU
min. Earth dist.	3180 Sep 22 19:10		0.62977 AU	inferior conj	3181 Sep 08 05:57	16° m 24'21	
inferior conj	3180 Sep 25 13:39	3° £ 22'13		minimum elong	3181 Sep 08 11:27	16° Mp 12'31	4°21'54
minimum elong	3180 Sep 25 19:08	3° △ 08'49	3°30'40	morning rise	3181 Sep 15 14:55	11° mp 33'41	
	3180 Sep 29 07:58	30°R Mp		direct	3181 Sep 18 00:07	11° Mp 10'51	
morning rise	3180 Oct 02 11:27	28° Mp 10'48		asc. node	3181 Sep 23 22:56	13° m 39'16	
direct	3180 Oct 04 21:53	27° m/43'09		morning max el	3181 Sep 25 03:54	14° m 44'22	18°00'30
asc. node	3180 Oct 07 01:54	28° Mp 05'37			3181 Oct 05 15:36	0∘ ʊ	
	3180 Oct 10 07:27	0° ʊ	15050144	morning set	3181 Oct 10 23:10	9° ≏ 41'13	
morning max el	3180 Oct 11 14:03	1° Ω 09'27	17°50'44			_	
morning set	3180 Oct 27 19:52	26° £ 19'56		superior conj	3181 Oct 21 01:20	28° Ω 01'25	1°08'17
	3180 Oct 29 21:52	0°M₊		minimum elong	3181 Oct 21 05:39	28° £ 20′24	1°07'46
		4 50 100 4 010 0			3181 Oct 22 04:22	0°M	
superior conj	3180 Nov 08 12:15	16°M30'00	0°34'46	max. Earth dist.	3181 Oct 28 15:54	11°M02'43	1.42114 AU
minimum elong	3180 Nov 08 15:33	16°M43'45	0°34'19	desc. node	3181 Oct 31 11:52	15°M42'09	
desc. node	3180 Nov 13 14:51	24°M55'14		evening rise	3181 Nov 03 12:57	20°M36'21	
max. Earth dist.	3180 Nov 15 03:52	27°M24'57	1.43742 AU		3181 Nov 09 13:20	0° ∡	
	3180 Nov 16 18:32	0° ∡			3181 Nov 30 18:15	0°ಕ	
evening rise	3180 Nov 23 17:55	10° ∡ ′57′20		evening max el	3181 Dec 06 10:29		22°24'34
	3180 Dec 06 08:56	0° ろ		retrograde	3181 Dec 16 02:25	12° ठ 13'00	
evening max el	3180 Dec 23 16:17	22° る 54'52	21°08'35	evening set	3181 Dec 20 16:26	10° る 21'43	
retrograde	3181 Jan 01 06:24	28° る 00'20		asc. node	3181 Dec 20 22:12	10° る 09'34	
asc. node	3181 Jan 03 01:10	27° ප් 42'51		inferior conj	3181 Dec 26 00:58	4° る 00'48	1°40'20
evening set	3181 Jan 05 08:54	26° る 25'21		minimum elong	3181 Dec 25 22:55	4° る 07'55	1°39'35
inferior conj	3181 Jan 10 17:26	20° ろ 12'02	2°22'48	min. Earth dist.	3181 Dec 25 22:13	4°る10'19	0.67931 AU
minimum elong	3181 Jan 10 14:56	20° る 20'38	2°22'01		3181 Dec 29 02:20	30°₽ ✓	
min. Earth dist.	3181 Jan 11 02:08	19° る 42'00	0.67680 AU	morning rise	3181 Dec 31 05:17	27° ₹ 50'39	
morning rise	3181 Jan 15 20:47	13° る 59'15		direct	3182 Jan 04 20:53	25° ₹ 54'51	
direct	3181 Jan 21 03:18	11°る40'48	22025112		3182 Jan 12 17:51	0°る	2200017.1
morning max el	3181 Jan 31 17:25	17°る59'03	23°37'42	morning max el	3182 Jan 14 04:56		22°09'54
desc. node	3181 Feb 09 14:06	28° පි 26'15		desc. node	3182 Jan 27 11:07	18° ට 00'47	
	3181 Feb 10 18:30	0° ≈			3182 Feb 04 16:49	0°≈	
	3181 Mar 02 22:26	0° ∺ 8° ∺ 30'18		morning set	3182 Feb 16 08:57	18°≈10'18	1 40000 ATT
morning set	3181 Mar 08 01:15		1 200 42 4 11	max. Earth dist.	3182 Feb 21 21:27	27°≈16'12	1.40998 AU
max. Earth dist.	3181 Mar 11 23:49	15° T 19'12	1.38843 AU		3182 Feb 23 12:11	0°) €	
superior conj	3181 Mar 19 10:47	28° ¥ 53'11	-1°44'40	superior conj	3182 Mar 01 15:57	10°) 42′56	-2°01'32
minimum elong	3181 Mar 19 15:19	29° X 14'30		minimum elong	3182 Mar 01 19:07	10° ¥ 57′02	
minimum crong	3181 Mar 20 00:59	0°Υ	1 1112	evening rise	3182 Mar 12 00:35	29° \(43'19	2 01 23
evening rise	3181 Mar 28 15:22	16° Ƴ 35'15		evening rise	3182 Mar 12 04:10	0°Υ	
asc. node	3181 Apr 01 00:28	23°Y05'35		asc. node	3182 Mar 18 21:30	12° Υ 16'19	
use. Houe	3181 Apr 04 18:52	0°8		evening max el	3182 Mar 28 06:26	25° Υ 38'44	18°16'28
evening max el	3181 Apr 13 23:18	12° 8 57'00	18°45'40	retrograde	3182 Apr 04 08:56	29° Υ 11'37	10 10 20
retrograde	3181 Apr 22 02:09	16° 8 55'03	10 43 40	evening set	3182 Apr 06 20:26	28° Y 46'37	
evening set	3181 Apr 24 07:20	16° 8 38'26		inferior conj	3182 Apr 13 22:33	24° Υ 04'43	2°51'50
inferior conj	3181 May 02 03:58	12° 8 17'14	1°45'36	minimum elong	3182 Apr 14 02:04	23°Y57'06	2°51'04
minimum elong	3181 May 02 07:27	12° 8 10'47	1°44'31	min. Earth dist.	3182 Apr 17 08:34	21° Υ 09'02	0.59395 AU
min. Earth dist.	3181 May 05 10:55	9° 8 52'44	0.57341 AU	morning rise	3182 Apr 21 05:08	18° Υ 25'39	0.57575 AO
desc. node	3181 May 08 13:16	7° 8 54'46	0.57541 AC	desc. node	3182 Apr 25 10:19	16° Y 47'54	
morning rise	3181 May 10 04:24	7° 8 06'03		direct	3182 Apr 27 13:35	16° Υ 35'28	
direct	3181 May 15 16:57	5° 8 51'29		morning max el	3182 May 11 22:16	24° Υ 23'23	27°20'50
morning max el	3181 May 30 01:15	13° 8 22'29	26°16'22	morning max or	3182 May 17 00:51	0° 8	2, 2000
morning max or	3181 Jun 12 03:54	0° Ⅱ	20 1022		3182 Jun 05 08:47	0°II	
morning set	3181 Jun 27 15:29	28° I I28'00		morning set	3182 Jun 11 23:57	13° Ⅱ 10′20	
asc. node	3181 Jun 27 23:43	29° I I11'29		asc. node	3182 Jun 14 20:45	19° Ⅱ 15′20	
300. 110 u c	3181 Jun 28 08:51	0°95		max. Earth dist.	3182 Jun 18 14:49	27° II 26'58	1.32088 AU
		. =					
superior conj	3181 Jul 04 15:02	13° © 38'12	1°04'51	superior conj	3182 Jun 19 02:46	28° ∏ 32'47	0°43'29
minimum elong	3181 Jul 04 12:45	13° © 25'38	1°04'27	minimum elong	3182 Jun 19 01:00	28° Ⅱ 22'58	0°43'07
max. Earth dist.	3181 Jul 05 02:46	14° 5 642'49	1.32255 AU		3182 Jun 19 18:36	0 \circ \odot	

	2102 1 25 22 51	120000000			2102 1 02 12 21	1201111100	0010145
evening rise	3182 Jun 25 22:54	13°926'20		minimum elong	3183 Jun 03 12:21	13° Ⅱ 15'09	0°18'45
	3182 Jul 04 07:21	$0^{\circ}\Omega$		evening rise	3183 Jun 10 10:18	28° Ⅱ 17'07	
desc. node	3182 Jul 22 09:35	26° Ω 21'13			3183 Jun 11 05:45	0°€	
evening max el	3182 Jul 24 10:12	28° Ω 23'18	26°04'32		3183 Jun 28 04:52	$0^{\circ}\Omega$	
	3182 Jul 26 05:01	0° m/		evening max el	3183 Jul 06 01:49	9° Ω 14'33	24°41'28
retrograde	3182 Aug 07 09:41	5° Mg 32'35		desc. node	3183 Jul 09 06:37	12° Ω 00'48	
evening set	3182 Aug 13 18:22	3° m 54'39		retrograde	3183 Jul 20 00:01	16° Ω 17'20	
min. Earth dist.	3182 Aug 17 22:46	1° m)18'51	0.58972 AU	evening set	3183 Jul 25 03:00	15° Ω 18′02	
	3182 Aug 19 17:32	30° R Ω		min. Earth dist.	3183 Jul 30 13:02	12° Ω 28'19	0.57034 AU
inferior conj	3182 Aug 21 05:24	28° Ω 52'22	-4°57'49	inferior conj	3183 Aug 02 09:10	10° Ω 37'45	-5°03'27
minimum elong	3182 Aug 21 08:36	28° Ω 46′23	4°57'32	minimum elong	3183 Aug 02 07:17	10° Ω 40'49	5°03'23
morning rise	3182 Aug 29 01:02	24° Ω 24'52		morning rise	3183 Aug 10 14:13	6° Ω 31'53	
direct	3182 Aug 31 11:53	24° Ω 04'40		direct	3183 Aug 13 05:08	6° Ω 12'43	
morning max el	3182 Sep 08 12:03	27° Ω 55'05	18°30'22	morning max el	3183 Aug 22 11:21	10° Ω 32'14	19°21'29
Ü	3182 Sep 10 11:06	0° m p		asc. node	3183 Aug 28 17:01	18° Ω 11'40	
asc. node	3182 Sep 10 19:58	0° m 26'17			3183 Sep 04 13:22	0° m/y	
morning set	3182 Sep 24 14:57	23° m 37'52		morning set	3183 Sep 08 15:23	7° m 59'29	
morning sec	3182 Sep 27 22:10	0° ⊽		morning sec	5105 5 c p 00 15.25	,	
	3102 бер 27 22.10	٥ –		superior conj	3183 Sep 16 17:49	24° m 07'47	1°41'55
superior conj	3182 Oct 03 13:03	10° £ 39'21	1°30'18	minimum elong	3183 Sep 16 17:49	24° Mp 15'09	1°41'51
		10° ⊆ 54'28	1°30'00	minimum clong	3183 Sep 10 19:20 3183 Sep 19 18:58	0° ⊡	1 41 31
minimum elong	3182 Oct 03 16:18			E 41 E 4			1 20056 ATT
max. Earth dist.	3182 Oct 10 22:34	23° Ω 57'22	1.40132 AU	max. Earth dist.	3183 Sep 23 02:26	6° £ 10'42	1.38056 AU
	3182 Oct 14 11:29	0°M		evening rise	3183 Sep 26 20:50	12° £ 56′26	
evening rise	3182 Oct 15 05:04	1°M13'33		desc. node	3183 Oct 05 05:55	27° ≏ 00'29	
desc. node	3182 Oct 18 08:53	6°M25'14			3183 Oct 07 03:10	0°M₊	
	3182 Nov 02 22:26	0°⊀			3183 Oct 29 00:01	0° ∡	
evening max el	3182 Nov 19 00:39	20° ≯ 04'21	23°44'30	evening max el	3183 Nov 01 12:59	3° ≯ ⁴44'10	25°01'52
retrograde	3182 Nov 29 19:25	26° ₹ 26'04		retrograde	3183 Nov 13 08:23	10° ∡ ³35′00	
evening set	3182 Dec 04 22:25	24° ₹ 18'16		evening set	3183 Nov 19 01:13	8° ∡ 11'52	
asc. node	3182 Dec 07 19:14	21° ⊀ ¹16′06		min. Earth dist.	3183 Nov 23 13:39	3° ₮ 07'20	0.67382 AU
inferior conj	3182 Dec 10 08:22	17° ∡ ¹53'38	0°51'41	inferior conj	3183 Nov 24 13:51	1° ∡ ¹47'54	-0°02'05
minimum elong	3182 Dec 10 07:11	17° ∡ 757'42	0°51'12	minimum elong	3183 Nov 24 13:54	1° ∡ ¹47'44	0°02'03
min. Earth dist.	3182 Dec 09 18:51	18° ∡ ³39'43	0.67826 AU	transit middle	3183 Nov 24 13:54	1° √ 47'44	0°02'03
morning rise	3182 Dec 15 15:56	11° ∡ ¹47'53		transit begin	3183 Nov 24 11:09	1° ∡ 56'46	
direct	3182 Dec 19 17:26	10° ∡ 14'55		transit end	3183 Nov 24 16:39	1° ∡ ³38'43	
morning max el	3182 Dec 27 22:49	14° √ 59'47	20°49'36	asc. node	3183 Nov 24 16:17	1° ∡ ³39'57	
Ü	3183 Jan 08 19:31	ರ°0			3183 Nov 25 23:16	30°RM₀	
desc. node	3183 Jan 14 08:08	8° ට 01'04		morning rise	3183 Nov 30 02:47	25°M48'45	
morning set	3183 Jan 26 14:16	26°₹38'49		direct	3183 Dec 03 15:48	24°M36'23	
morning sec	3183 Jan 28 17:38	0°≈		morning max el	3183 Dec 11 00:32	28°M46'18	19°41'43
max. Earth dist.	3183 Feb 04 01:47	10°≈07'51	1.42908 AU	morning max er	3183 Dec 12 04:37	20° 10 → 0 10	17 41 43
max. Latin dist.	3103100 04 01.47	10 ~0731	1.42)00 AC	greatest brilliancy	3183 Dec 12 04:57	16° ∡ 12'27	-0.7m
aumorior comi	3183 Feb 10 21:59	21° ≈ 27'03	2906121	desc. node	3184 Jan 01 05:10	28° 🖈 19'37	-0.7111
superior conj		21 ≈27 03 21°≈22'54		desc. node	3184 Jan 02 07:20	0°る	
minimum elong	3183 Feb 10 21:00	21 ≈ 22 34 0° \	2 00 20		3184 Jan 05 10:26	0 3 4° 3 49'10	
	3183 Feb 15 21:50			morning set			1 44226 444
evening rise	3183 Feb 22 18:54	12°) €07'07		max. Earth dist.	3184 Jan 17 13:12	23° ප් 46'02	1.44336 AU
_	3183 Mar 05 03:42	0° Υ			3184 Jan 21 10:50	0° ≈	
asc. node	3183 Mar 05 18:33	0° Y 57'52					
evening max el	3183 Mar 11 17:53	8° Y 42'58	18°07'03	superior conj	3184 Jan 22 01:52	1° ≈ 00'32	
retrograde	3183 Mar 18 07:33	12° Y 06′19		minimum elong	3184 Jan 21 19:06	0° ≈ 33'18	1°53'31
evening set	3183 Mar 21 00:49	11° Υ 31'12		evening rise	3184 Feb 04 17:50	23° ≈ 37'23	
inferior conj	3183 Mar 27 12:08	6° Y 28′54			3184 Feb 08 12:11	0° ℋ	
minimum elong	3183 Mar 27 14:04	6° Y 24'04	3°27'22	asc. node	3184 Feb 20 15:36	19°) €00'23	
min. Earth dist.	3183 Mar 30 13:53	3° Y 26'43	0.61560 AU	evening max el	3184 Feb 23 06:34	22° ℋ 00'58	18°16'42
morning rise	3183 Apr 03 01:38	0° Ƴ 32'09		retrograde	3184 Feb 29 17:16	25° ∺ 28′21	
	3183 Apr 03 21:15	30° ₹ ₩		evening set	3184 Mar 03 16:10	24°) 41′56	
direct	3183 Apr 09 21:19	28°) (09′11		inferior conj	3184 Mar 09 16:32	19°) € 20′23	3°39'24
desc. node	3183 Apr 12 07:21	28°) 25′54		minimum elong	3184 Mar 09 16:38	19°) 20′06	3°39'24
	3183 Apr 16 07:22	$0^{\circ}\mathbf{\Upsilon}$		min. Earth dist.	3184 Mar 12 04:16	16°) 34'14	0.63566 AU
morning max el	3183 Apr 24 01:41	6° Y 06'04	27°49'41	morning rise	3184 Mar 15 16:11	13°) 14′06	
<i>5</i>	3183 May 12 01:54	0°8	-	direct	3184 Mar 22 13:51	10° ¥ 29'39	
morning set	3183 May 27 04:01	27° 8 37'04		desc. node	3184 Mar 29 04:23	12°) (34'53	
	3183 May 28 07:44	0°II		morning max el	3184 Apr 05 09:32	18° \(\frac{1}{2}6'50\)	27°41'11
asc. node	3183 Jun 01 17:48	9° Ⅱ 23'41			3184 Apr 15 03:10	0° Υ	
max. Earth dist.	3183 Jun 02 00:53	10° I I02'02	1.32322 AU		3184 May 03 22:58	0°8	
max. Darm tist.	5105 Juli 02 00.55	10 110202	1.32322 AU	morning set	3184 May 10 01:16	11° 8 39'59	
superior coni	3183 Jun 03 13:13	13° Ⅱ 19'52	0°18'57	max. Earth dist.	· · · · · · · · · · · · · · · · · · ·	22° 8 14'28	1.32975 AU
superior conj	3103 Juli U3 13:13	13 H 1932	0 103/	max. Earm aist.	3184 May 15 04:53	22 01428	1.32913 AU

superior conj	3184 May 17 20:30	27° 8 53'06		max. Earth dist.	3185 Apr 27 23:16	3° 8 55'32	1.34082 AU
minimum elong	3184 May 17 20:54	27° 8 55'14	0°07'57				
behind sun begin	3184 May 17 16:15	27° 8 30'19		superior conj	3185 May 01 22:34	12° 8 06'00	
behind sun end	3184 May 18 01:33	28° 8 20'11		minimum elong	3185 May 02 00:27	12° 8 15'52	0°36'04
asc. node	3184 May 18 14:52	29° 8 31'53		asc. node	3185 May 05 11:55	19° 8 35'52	
	3184 May 18 20:05	0°II		evening rise	3185 May 09 08:22	27° 8 43'18	
evening rise	3184 May 24 22:05	13° Ⅱ 04'51			3185 May 10 10:41	0°II	
	3184 Jun 02 11:55	0°©	22005120		3185 May 29 03:05	0°©	01000115
evening max el	3184 Jun 16 15:17	19°5542'13	23°05'39	evening max el	3185 May 29 10:07	0°517'19	21°32'15
desc. node	3184 Jun 25 03:38	25°S29'09		retrograde	3185 Jun 10 16:31	6°5519'05	
retrograde	3184 Jun 30 01:48 3184 Jul 03 16:19	26°524'23		desc. node	3185 Jun 12 00:39	6°©14'57 6°©05'31	
evening set min. Earth dist.	3184 Jul 11 00:34	25°\$55'56 22°\$37'55	0.55565 AU	evening set	3185 Jun 13 03:08 3185 Jun 22 12:38	2°905'04	2050100
inferior conj	3184 Jul 12 17:26	22 3 37 33 21° 9 38'27		inferior conj minimum elong	3185 Jun 22 04:57	2°905'04 2°915'49	
minimum elong	3184 Jul 12 17:20 3184 Jul 12 10:14	21°53827 21°548'58	4°23'47	min. Earth dist.	3185 Jun 22 11:48	2°906'14	0.54883 AU
morning rise	3184 Jul 21 06:33	17°9545'50	4 2347	mm. Earm dist.	3185 Jun 26 10:01	2 3 00 14 30°R Ⅱ	0.54885 AC
direct	3184 Jul 24 03:38	17°526'04		morning rise	3185 Jul 01 07:38	28° Ⅱ 10'04	
morning max el	3184 Aug 03 23:23	22°\$27'20	20°33'59	direct	3185 Jul 04 14:27	27° I I46'34	
morning max cr	3184 Aug 10 08:15	0°Ω	20 33 37	direct	3185 Jul 12 05:12	0°95	
asc. node	3184 Aug 14 14:05	6° Ω 42'18		morning max el	3185 Jul 16 23:54	3°937'28	22°05'08
morning set	3184 Aug 22 21:38	22° Ω 38'30		asc. node	3185 Aug 01 11:08	25°946'46	22 03 00
morning sec	3184 Aug 26 11:05	0° m		use. Houe	3185 Aug 03 15:32	0°Ω	
	510+71ug 20 11.05	עוויי		morning set	3185 Aug 07 07:27	7° Ω 28'05	
superior conj	3184 Aug 30 10:49	8° m 12'50	1°44'51	morning sec	3103 Hug 07 07.27	7 0020 03	
minimum elong	3184 Aug 30 10:40		1°44'51	superior conj	3185 Aug 14 12:15	22° Ω 42'41	1°40'38
max. Earth dist.	3184 Sep 04 09:29	18° Mp 03'40	1.36134 AU	minimum elong	3185 Aug 14 10:51	22°Ω35'21	1°40'34
evening rise	3184 Sep 08 09:20	25° m/38'05		max. Earth dist.	3185 Aug 18 00:28	0° mp 00'13	1.34532 AU
<i>8</i>	3184 Sep 10 18:49	0∘ <u>⊽</u>			3185 Aug 18 00:26	0° m)	
desc. node	3184 Sep 21 02:57	17° ≏ 23'02		evening rise	3185 Aug 22 13:58	9° m 05'37	
	3184 Sep 29 14:57	0°M₊		Č	3185 Sep 03 07:01	0∘ <u>⊽</u>	
evening max el	3184 Oct 14 01:21	17° M 25'58	26°09'17	desc. node	3185 Sep 07 23:58	7° ≏ 26'02	
retrograde	3184 Oct 26 16:25	24°M34'44			3185 Sep 25 12:57	0° M .	
evening set	3184 Nov 01 23:02	21°M59'25		evening max el	3185 Sep 26 13:56	1° M L01'14	26°59'11
min. Earth dist.	3184 Nov 06 04:16	17°M30'19	0.66601 AU	retrograde	3185 Oct 09 18:51	8°M17'42	
inferior conj	3184 Nov 07 15:35	15°M40'55	-0°59'39	evening set	3185 Oct 16 13:40	5°M35'45	
minimum elong	3184 Nov 07 17:11	15°M35'59	0°58'59	min. Earth dist.	3185 Oct 20 12:10	1°ML42'51	0.65470 AU
asc. node	3184 Nov 10 13:17	12°M17'33		inferior conj	3185 Oct 22 11:26	29° ≏ 27'29	-1°59'33
morning rise	3184 Nov 13 11:47	9° ™ 51'01		minimum elong	3185 Oct 22 14:44	29° ≏ 18′02	1°58'15
direct	3184 Nov 16 14:21	8°M55'53			3185 Oct 22 00:08	30° ₹ Ω	
morning max el	3184 Nov 23 09:26	12°M41'24	18°49'02	asc. node	3185 Oct 28 10:19	23° ≙ 58'10	
	3184 Dec 06 01:29	0° ∡ ¹		morning rise	3185 Oct 28 16:36	23° ჲ 50′00	
morning set	3184 Dec 14 22:50	13° ∡ ¹55'13		direct	3185 Oct 31 10:59	23° ≏ 08'21	
desc. node	3184 Dec 18 02:13	18° ∡ ′51'39		morning max el	3185 Nov 06 23:25	26° ჲ 39'22	18°12'46
	3184 Dec 25 04:32	0°ಕ			3185 Nov 09 21:23	0° M	
max. Earth dist.	3184 Dec 30 06:10	7° る 57'11	1.45113 AU	morning set	3185 Nov 25 16:02	24°M28'41	
					3185 Nov 29 01:19	0° ∡ ¹	
superior conj	3184 Dec 31 08:50	9° ප් 41'56		desc. node	3185 Dec 04 23:15	9° ∡ ³32′15	
minimum elong	3184 Dec 30 23:50	9° る 06'34	1°21'20				
	3185 Jan 13 03:46	0° ≈		superior conj	3185 Dec 10 11:50	18° ∡ 19'01	
evening rise	3185 Jan 15 18:03	4°≈10'39		minimum elong	3185 Dec 10 07:08	18° ∡ 00′26	
	3185 Feb 01 06:17	0°){	1004490	max. Earth dist.	3185 Dec 13 01:41	22° ∡ ¹22'38	1.45146 AU
evening max el	3185 Feb 05 17:54	5° ¥ 27'08	18°44'29		3185 Dec 17 22:26	0°る	
asc. node	3185 Feb 06 12:38	6°) 12′50		evening rise	3185 Dec 26 19:49	13° る 51'43	
retrograde	3185 Feb 12 10:08	9°) 10′23		4 41 711	3186 Jan 06 05:48	0°≈ 2020100	0.7
evening set	3185 Feb 15 15:07	8° ¥ 11'43	2022110	greatest brilliancy	3186 Jan 07 21:13	2°≈30'08	-0.7m
inferior conj	3185 Feb 21 07:52	2°\(\frac{1}{32}\)'26 2°\(\frac{1}{36}\)'33		evening max el asc. node	3186 Jan 20 01:39	18°≈57'07	19°29'11
minimum elong min. Earth dist.	3185 Feb 21 06:32 3185 Feb 23 03:57	2 1 17 54 0° 1 17 54	0.65244 AU	retrograde	3186 Jan 24 09:38 3186 Jan 27 06:55	22°≈21'43 23°≈06'39	
IIIII. Eartii dist.	3185 Feb 23 09:58	0)(1/34 30°R≈	0.03244 AU	evening set	3186 Jan 30 19:02	23 ≈00 39 21°≈54'43	
morning rise	3185 Feb 26 21:31	30 k≈ 26°≈21'24		inferior conj	3186 Feb 05 06:55	21 ≈5443 15°≈59'50	3°13'49
direct	3185 Mar 05 13:25	20 ≈21 24 23°≈30'01		minimum elong	3186 Feb 05 04:42	15 ≈3930 16°≈07'05	3°13'24
desc. node	3185 Mar 16 01:26	23 ≈3001 28°≈41'23		min. Earth dist.	3186 Feb 05 04.42 3186 Feb 06 12:02	16 ≈0703 14°≈24'47	0.66511 AU
acse. Houc	3185 Mar 17 11:57	20 ≈ 41 23		morning rise	3186 Feb 10 14:07	9°≈46'40	0.00311 AU
morning max el	3185 Mar 18 19:11	1° ∺ 16′21	26°59'21	direct	3186 Feb 16 18:57	7°≈01'24	
orming must ci	3185 Apr 09 05:27	0° Υ	20 0721	morning max el	3186 Mar 01 04:40	14°≈23'55	25°51'59
morning set	3185 Apr 23 12:39	25°Υ′09'36		desc. node	3186 Mar 02 22:29	16°≈13'24	
	3185 Apr 26 00:10	0° 8		Ess. node	3186 Mar 13 22:26	0° \	
						- / \	

	3186 Apr 02 00:25	0° Y		desc. node	3187 Feb 17 19:30	4°≈45'45	
morning set	3186 Apr 06 10:05	7° Ƴ 54'28			3187 Mar 07 15:01	0°) €	
max. Earth dist.	3186 Apr 10 06:21	15° Y ′08′14	1.35649 AU	morning set	3187 Mar 19 12:05	19°) 38′51	
	•			max. Earth dist.	3187 Mar 23 04:03	26°) 10′54	1.37606 AU
superior conj	3186 Apr 15 16:53	25° Y ′51'27	-1°04'56		3187 Mar 25 06:01	$0^{\circ}\Upsilon$	
minimum elong	3186 Apr 15 20:16	26° Y ′08'31	1°04'21				
	3186 Apr 17 17:49	0° 8		superior conj	3187 Mar 30 00:09	9° Ƴ 00'00	-1°31'26
asc. node	3186 Apr 22 08:58	9° 8 31'35		minimum elong	3187 Mar 30 04:34	9° Ƴ 21'24	1°30'52
evening rise	3186 Apr 23 15:09	12° 8 06'20		evening rise	3187 Apr 07 15:58	26° Y 06′06	
	3186 May 03 02:02	Π $^{\circ}0$		asc. node	3187 Apr 09 05:59	29° Ƴ 13'54	
evening max el	3186 May 11 15:51	11° Ⅲ 24'48	20°12'28		3187 Apr 09 15:23	9° 8	
retrograde	3186 May 22 06:27	16° Ⅲ 34'29		evening max el	3187 Apr 24 09:24	23° 8 12'33	19°11'32
evening set	3186 May 24 06:17	16° Ⅱ 24'20		retrograde	3187 May 03 07:58	27° 8 33'12	
desc. node	3186 May 29 21:41	14° Ⅱ 22'02		evening set	3187 May 05 09:30	27° 8 20'17	
inferior conj	3186 Jun 02 08:09	12° Ⅱ 25'33		inferior conj	3187 May 13 17:37	23° 8 09'36	0°52'24
minimum elong	3186 Jun 02 05:18	12° Ⅱ 29'46	0°59'42	minimum elong	3187 May 13 19:42	23° 8 06'04	0°51'40
min. Earth dist.	3186 Jun 04 00:19	11° Ⅱ 26′10	0.55155 AU	min. Earth dist.	3187 May 16 15:20	21° 8 12'30	0.56336 AU
morning rise	3186 Jun 11 02:53	8° Ⅱ 08'24		desc. node	3187 May 16 18:42	21° 8 07'01	
direct	3186 Jun 15 02:02	7° Ⅱ 34'21		morning rise	3187 May 22 02:49	18° 8 17'39	
morning max el	3186 Jun 28 16:22	14° Ⅱ 13'30	23°47'11	direct	3187 May 27 01:07	17° 8 21'15	
_	3186 Jul 10 22:33	0°©		morning max el	3187 Jun 10 06:38	_	25°26'40
asc. node	3186 Jul 19 08:12	15°5516'23			3187 Jun 15 05:11	0°II	
morning set	3186 Jul 22 19:01	22° © 22'53			3187 Jul 03 17:54	0.00	
	3186 Jul 26 08:23	0 \circ Ω		asc. node	3187 Jul 06 05:14	5°903'23	
	2106 1 1 20 10 17	70 000146	1020121	morning set	3187 Jul 07 06:39	7° © 16'48	
superior conj	3186 Jul 29 19:17	7° Ω 28'46	1°30'31		2107 1 1 14 05 27	220522100	1015120
minimum elong	3186 Jul 29 17:09	7°Ω17'15	1°30'18	superior conj	3187 Jul 14 05:37	22°523'00	1°15'28
max. Earth dist.	3186 Aug 01 00:31	12° Ω 14'14	1.33324 AU	minimum elong	3187 Jul 14 03:15	22°510'02	1°15'07
evening rise	3186 Aug 06 06:34	23° Ω 07'44 0° m		max. Earth dist.	3187 Jul 15 07:39	24° © 45'25 0° Ω	1.32523 AU
desc. node	3186 Aug 09 18:40	رابات 27° الله 100°22		arranina riaa	3187 Jul 17 17:40 3187 Jul 21 07:40	0° δ ι 7° Ω 33'42	
desc. node	3186 Aug 25 20:59	0° ⊽		evening rise		0°M)	
evening max el	3186 Aug 27 23:30 3186 Sep 09 01:28		27°24'25	desc. node	3187 Aug 02 05:46 3187 Aug 12 18:00	0 111/ 15° Mp 56'14	
retrograde	3186 Sep 22 15:15	21° £ 35'53	21 24 23	evening max el	3187 Aug 12 18:00 3187 Aug 22 09:49	27° Mp 04'34	27°19'24
evening set	3186 Sep 29 18:23	18° ♀ 56'02		evening max er	3187 Aug 25 19:21	27 IIV 04 34 0° ⊡	27 1924
min. Earth dist.	3186 Oct 03 11:11	15° ⊆ 37'28	0.63989 AU	retrograde	3187 Sep 05 05:16	0 — 4° Ω 19'58	
inferior conj	3186 Oct 05 22:58	13° ⊆ 02'16		evening set	3187 Sep 12 09:40	1° £ 54'13	
minimum elong	3186 Oct 06 03:49	12° ≏ 49'38		evening set	3187 Sep 14 21:49	30°RM⊅	
morning rise	3186 Oct 12 14:28	7° Ω 40'36	2 37 11	min. Earth dist.	3187 Sep 15 23:59		0.62179 AU
direct	3186 Oct 15 03:04	7° Ω 08'48		inferior conj	3187 Sep 18 23:14	26° mp 18'30	
asc. node	3186 Oct 15 07:22	7° ≏ 08'58		minimum elong	3187 Sep 19 04:56	26° m 05'16	
morning max el	3186 Oct 21 15:47	10° ≏ 34'10	17°53'37	morning rise	3187 Sep 26 01:50	21° m 15'53	
Č	3186 Nov 03 19:29	0°M		direct	3187 Sep 28 11:19	20° m 50'42	
morning set	3186 Nov 07 12:35	6° ™ 21'33		asc. node	3187 Oct 02 04:25	21° m 53'10	
				morning max el	3187 Oct 05 07:31	24° m 18'55	17°52'33
superior conj	3186 Nov 20 07:20	27° M 47'53	0°10'33	_	3187 Oct 09 22:07	0∘ ⊽	
minimum elong	3186 Nov 20 08:31	27°M52'40	0°10'23	morning set	3187 Oct 21 06:28	19° ≏ 15'39	
behind sun begin	3186 Nov 20 00:48	27° M 21'14			3187 Oct 27 06:41	0° M	
behind sun end	3186 Nov 20 16:13	28° M $24'04$					
desc. node	3186 Nov 21 20:15	0° ∡ 17'45		superior conj	3187 Nov 01 05:21	8°M35'25	0°50'24
	3186 Nov 21 15:52	0° ∡ 7		minimum elong	3187 Nov 01 09:26	8°M52'51	0°49'51
max. Earth dist.	3186 Nov 25 20:08	6° ∡ 742'14	1.44444 AU	max. Earth dist.	3187 Nov 08 10:33	20° M $_{3}7'55$	1.43104 AU
evening rise	3186 Dec 06 06:42	23° ∡ 01′02		desc. node	3187 Nov 08 17:16	21°M05'17	
	3186 Dec 10 20:16	0° ප			3187 Nov 14 06:59	0° ∡ ¹	
	3186 Dec 31 22:35	0° ≈		evening rise	3187 Nov 15 18:06	2° ∡ 17'38	
evening max el	3187 Jan 03 04:15	2° ≈ 27'58	20°28'46		3187 Dec 04 08:43	0°₹	
retrograde	3187 Jan 11 05:01	7° ≈ 11'52		evening max el	3187 Dec 17 01:19	16° පි 00'10	21°40'02
asc. node	3187 Jan 11 06:39	7° ≈ 11'51		retrograde	3187 Dec 26 02:21	21° ප් 22'57	
evening set	3187 Jan 15 01:45	5°≈45'36		asc. node	3187 Dec 29 03:41	20° る 32'04	
inferior conj	3187 Jan 20 10:56		2°43'54	evening set	3187 Dec 30 09:28	19°る41'12	
minimum elong	3187 Jan 20 08:24	29°₹46'31	2°43'13	inferior conj	3188 Jan 04 17:48	13° る 23'59	2°05'38
	3187 Jan 20 04:26	30°Rる	0.680.60	minimum elong	3188 Jan 04 15:26	13° る 32'11	2°04'50
min. Earth dist.	3187 Jan 21 02:37	28°る44'29	0.67363 AU	min. Earth dist.	3188 Jan 04 21:31	13°る11'05	0.67827 AU
morning rise	3187 Jan 25 14:53	23° る 24'22		morning rise	3188 Jan 09 21:14	7°る11'52	
direct	3187 Jan 31 05:47	20°る54'34	24020142	direct	3188 Jan 14 21:16	5°る02'54	22050140
morning max el	3187 Feb 11 13:16	27° る 39'49	24~28'42	morning max el	3188 Jan 24 22:41	11°る01'01	22~59'48
	3187 Feb 13 18:13	0° ≈		desc. node	3188 Feb 04 16:30	24° る 01'27	

	3188 Feb 08 23:49	0° ≈			3189 Jan 11 09:08	ე∘ჳ	
	3188 Feb 28 10:47	0° ∀		desc. node	3189 Jan 21 13:32	。3 13° る 47'52	
morning set	3188 Feb 28 12:34	0° ₩ 07'25		dese. node	3189 Feb 01 10:26	0°≈	
max. Earth dist.	3188 Mar 03 22:58	7°) €37'33	1.39768 AU	morning set	3189 Feb 07 07:57	9° ≈ 12'47	
				max. Earth dist.	3189 Feb 13 22:41	19° ≈ 55'40	1.41861 AU
superior conj	3188 Mar 11 16:16	21°) 22'01	-1°52'58		3189 Feb 19 22:01	0°) €	
minimum elong	3188 Mar 11 20:31	21°) 41'32					
8	3188 Mar 16 07:18	$_{0}$ $^{\circ}$ γ		superior conj	3189 Feb 21 12:11	2° ¥ 45′01	-2°05'23
evening rise	3188 Mar 21 07:54	9° Ƴ 35'24		minimum elong	3189 Feb 21 13:57	2° 升 52'40	2°05'20
asc. node	3188 Mar 26 03:01	18° Ƴ 37'54		evening rise	3189 Mar 04 11:15	22° ¥ 25′01	
	3188 Apr 01 22:06	0° ႘		C	3189 Mar 08 15:13	0° Υ	
evening max el	3188 Apr 06 12:36	5° 8 37'21	18°30'49	asc. node	3189 Mar 13 00:03	7° Ƴ 36'53	
retrograde	3188 Apr 14 03:44	9° 8 22'39		evening max el	3189 Mar 20 22:02	18° Ƴ 29'52	18°10'08
evening set	3188 Apr 16 11:32	9° 8 02'51		retrograde	3189 Mar 27 17:34	21° Y ′56'27	
inferior conj	3188 Apr 23 23:58	4° 8 33'18	2°17'43	evening set	3189 Mar 30 07:42	21° Y 27'13	
minimum elong	3188 Apr 24 03:47	4° 8 25'46	2°16'40	inferior conj	3189 Apr 06 03:03	16° Ƴ 36'44	3°10'21
min. Earth dist.	3188 Apr 27 10:10	1° 8 52'18	0.58180 AU	minimum elong	3189 Apr 06 06:00	16° Ƴ 29'57	3°09'50
	3188 Apr 30 03:51	30° ₹ Υ		min. Earth dist.	3189 Apr 09 10:43	13° Ƴ 35'11	0.60327 AU
morning rise	3188 May 01 16:55	29° Ƴ 08'45		morning rise	3189 Apr 13 02:06	10° Ƴ 49'16	
desc. node	3188 May 02 15:44	28° Ƴ 42'31		direct	3189 Apr 19 16:47	8° Ƴ 43'57	
direct	3188 May 07 14:51	27° Ƴ 39'00		desc. node	3189 Apr 19 12:44	8° Y 44'02	
	3188 May 15 06:43	8°		morning max el	3189 May 03 23:44	16° Ƴ 36′21	27°37'41
morning max el	3188 May 22 00:09	5° 8 19'13	26°47'40		3189 May 15 00:17	9° 8	
	3188 Jun 09 03:42	$\Pi^{\circ}0$			3189 Jun 01 16:24	$\Pi^{\circ}0$	
morning set	3188 Jun 20 16:46	22° Ⅱ 04'43		morning set	3189 Jun 04 23:37	6° Ⅱ 41′04	
asc. node	3188 Jun 22 02:17	25° Ⅲ 02'22		asc. node	3189 Jun 08 23:21	15° Ⅱ 08'39	
	3188 Jun 24 09:24	0°€		max. Earth dist.	3189 Jun 11 06:27	20° Ⅲ 08'53	1.32136 AU
superior conj	3188 Jun 27 17:21	7° 5 19'09	0°56'13	superior conj	3189 Jun 12 04:46	22° Ⅱ 11′26	0°33'26
minimum elong	3188 Jun 27 15:14	7° © 07'27	0°55'49	minimum elong	3189 Jun 12 03:20	22° Ⅲ 03'31	0°33'07
max. Earth dist.	3188 Jun 27 18:48	7° 5 27'11	1.32130 AU		3189 Jun 15 18:05	0°99	
evening rise	3188 Jul 04 14:31	22° © 15'14		evening rise	3189 Jun 19 00:51	7° 5 05'00	
	3188 Jul 08 09:15	$0^{\circ}\Omega$			3189 Jun 30 23:50	$0^{\circ}\Omega$	
	3188 Jul 26 11:36	O° Mp		evening max el	3189 Jul 16 08:19	20° Ω 25'32	25°31'54
desc. node	3188 Jul 29 15:02	3° m 54'59		desc. node	3189 Jul 16 12:03	20° Ω 34'26	
evening max el	3188 Aug 03 12:38	9° № 08'34	26°41'07	retrograde	3189 Jul 30 08:02	27° Ω 32'19	
retrograde	3188 Aug 17 11:34	16° Mp 20'16		evening set	3189 Aug 05 05:27	26° Ω 11'12	
evening set	3188 Aug 24 06:53	14° m 22'03		min. Earth dist.	3189 Aug 09 20:21	23° Ω 31′28	0.58109 AU
min. Earth dist.	3188 Aug 28 02:30	11°Mp45'28	0.60152 AU	inferior conj	3189 Aug 13 00:12	21° Ω 18′22	-5°04'44
inferior conj	3188 Aug 31 08:47	9° ™ 06'58	-4°40'31	minimum elong	3189 Aug 13 01:32	21° Ω 16′01	5°04'42
minimum elong	3188 Aug 31 13:39	8° m 57'04	4°39'43	morning rise	3189 Aug 20 23:56	17° Ω 00′08	
morning rise	3188 Sep 07 22:24	4° Mp 26′00		direct	3189 Aug 23 12:17	16° Ω 40′29	
direct	3188 Sep 10 07:47	4° Mp 04'40		morning max el	3189 Sep 01 00:05	20° Ω 42′03	18°49'27
morning max el	3188 Sep 17 19:22	7° ™ 44'32	18°10'42	asc. node	3189 Sep 04 22:32	25° Ω 13'13	
asc. node	3188 Sep 18 01:29	7° ™ 59'31			3189 Sep 08 04:14	0° m ∕	
	3188 Oct 02 02:45	0∘ ত		morning set	3189 Sep 17 11:35	17° m)02'11	
morning set	3188 Oct 03 15:40	2° £ 53'22			3189 Sep 24 02:48	0∘ ⊽	
superior conj	3188 Oct 13 04:45	20° £ 36'52	1°18'58	superior conj	3189 Sep 26 00:24		1°36'23
minimum elong	3188 Oct 13 08:47	20° ≙ 55'01	1°18'32	minimum elong	3189 Sep 26 02:56	3° ≙ 50'13	1°36'12
	3188 Oct 18 12:25	0°M		max. Earth dist.	3189 Oct 03 01:05	16° ≏ 33'38	1.39249 AU
max. Earth dist.	3188 Oct 20 19:48	3°M56'28	1.41296 AU	evening rise	3189 Oct 06 23:44	23° ≏ 25'29	
evening rise	3188 Oct 25 21:19	12°M19'33			3189 Oct 10 22:06	0° M	
desc. node	3188 Oct 25 14:18	11°M51'03		desc. node	3189 Oct 12 11:22	2°M31'35	
	3188 Nov 06 06:16	0° √			3189 Oct 31 02:46	0° ∡ ¹	
evening max el	3188 Nov 28 17:39	29° ∡ ³34'49	22°58'28	evening max el	3189 Nov 11 07:00	13° ∡ 13′24	24°18'07
	3188 Nov 29 03:47	0°ರ		retrograde	3189 Nov 22 12:31	19° ∡ ′47′55	
retrograde	3188 Dec 08 21:15	5° ප 36'01		evening set	3189 Nov 27 21:22	17° ∡ "33′30	
evening set	3188 Dec 13 16:31	3° 云 37'58		asc. node	3189 Dec 01 21:46	13° ∡ 04'23	
asc. node	3188 Dec 15 00:43	2° る 21'54		min. Earth dist.	3189 Dec 02 14:22	12° ₹ 09'17	0.67688 AU
	3188 Dec 17 00:43	30°₹ズ		inferior conj	3189 Dec 03 08:20	11° ∡ 08'52	0°29'29
inferior conj	3188 Dec 19 01:31	27° х 15′00	1°20'25	minimum elong	3189 Dec 03 07:38	11° ∤ 711'15	0°29'11
minimum elong	3188 Dec 18 23:47	27° ₹ '21'00	1°19'45	morning rise	3189 Dec 08 17:56	5° ∡ °05'37	
min. Earth dist.	3188 Dec 18 18:13	27° х 40′10	0.67930 AU	direct	3189 Dec 12 14:02	3° х 41′33	
morning rise	3188 Dec 24 06:55	21° х 06′13		morning max el	3189 Dec 20 09:34	8° ∡ ′09'45	20°18'56
direct	3188 Dec 28 16:26	19° ∡ °20′04			3190 Jan 05 19:11	0°ಕ	
morning max el	3189 Jan 06 12:27	24° ₹ 29'39	21°34'20	desc. node	3190 Jan 08 10:34	3° る 56'44	

morning set	3190 Jan 17 06:21	17° る 24'21		morning rise	3190 Nov 23 04:16	19° M 07'25	
morning set	3190 Jan 25 07:00	0°≈		direct	3190 Nov 26 12:37	18°ML02'50	
max. Earth dist.	3190 Jan 27 06:36		1.43598 AU	morning max el	3190 Dec 03 14:35	22°M _{00'42}	19°17'26
max. Earth dist.	5170 Juli 27 00.50	3 201017	1.45570710	morning max or	3190 Dec 10 03:09	0° √	17 17 20
superior conj	3190 Feb 02 07:12	12° ≈ 58'59	-2°03'27	greatest brilliancy	3190 Dec 17 07:38	10° ∡ 31'13	-0.7m
minimum elong	3190 Feb 02 03:44	12°≈44'43	2°03'19	desc. node	3190 Dec 26 07:38	24° ×721'51	0.7111
g	3190 Feb 12 08:23	0° ∀	2 03 19	morning set	3190 Dec 27 06:53	25° × 52'01	
evening rise	3190 Feb 14 21:50	4°) €26'48			3190 Dec 29 22:44	0°ਰ	
asc. node	3190 Feb 27 21:05	26°) €02'51		max. Earth dist.	3191 Jan 09 21:15	17° る 06'59	1.44755 AU
	3190 Mar 02 21:18	$_{0}$ $^{\circ}$ Υ					
evening max el	3190 Mar 04 10:22	1° Y 40'47	18°08'50	superior conj	3191 Jan 13 00:53	22° る 06'31	-1°42'46
retrograde	3190 Mar 10 21:29	5° Ƴ 04'04		minimum elong	3191 Jan 12 16:23	21° る 32'44	1°42'03
evening set	3190 Mar 13 17:15	4° Y 24'05			3191 Jan 17 23:10	0° ≈	
	3190 Mar 19 05:24	30°₽)		evening rise	3191 Jan 27 11:30	15° ≈ 34'01	
inferior conj	3190 Mar 19 23:25	29°) (13′10	3°35'08		3191 Feb 05 05:20	0°) €	
minimum elong	3190 Mar 20 00:33	29° ₩ 10'11	3°35'04	asc. node	3191 Feb 14 18:07	13°) 45′58	
min. Earth dist.	3190 Mar 22 19:31	26°) 15′46	0.62450 AU	evening max el	3191 Feb 15 22:45	15° ¥ 03'07	18°26'15
morning rise	3190 Mar 26 06:36	23° ∺ 11'49		retrograde	3191 Feb 22 10:53	18° ¥ 36′09	
direct	3190 Apr 02 04:13	20°) 38′20		evening set	3191 Feb 25 12:14	17°) (44′37	
desc. node	3190 Apr 06 09:47	21° ∺ 29'41		inferior conj	3191 Mar 03 08:58	12° ¥ 15′00	3°38'42
morning max el	3190 Apr 16 05:14	28° ∺ 35'30	27°50'36	minimum elong	3191 Mar 03 08:23	12°) 1 6′40	3°38'41
	3190 Apr 17 14:07	0 ° Υ		min. Earth dist.	3191 Mar 05 13:58	9° ∺ 41'01	0.64324 AU
	3190 May 08 20:10	9° 8		morning rise	3191 Mar 09 03:53	6°) €06'04	
morning set	3190 May 20 01:04	20° 8 58'21		direct	3191 Mar 15 23:42	3° ¥ 17'13	
	3190 May 24 09:17	Π $^{\circ}0$		desc. node	3191 Mar 24 06:48	6° ∺ 33'26	
max. Earth dist.	3190 May 25 14:34		1.32549 AU	morning max el	3191 Mar 29 14:27	11° 米 11'19	27°27'09
asc. node	3190 May 26 20:23	5° Ⅱ 17'12			3191 Apr 13 11:58	0° Υ	
					3191 May 01 06:51	0°8	
superior conj	3190 May 27 14:04	6° Ⅱ 53'07	0°07'46	morning set	3191 May 03 18:34	4° 8 48'40	
minimum elong	3190 May 27 13:42	6° ∏ 51′06	0°07'41	max. Earth dist.	3191 May 08 15:08	14° 8 37'41	1.33393 AU
behind sun begin	3190 May 27 09:08	6° Ⅱ 26'17					
behind sun end	3190 May 27 18:17	7° I I15'56		superior conj	3191 May 11 19:24	21° 8 18'25	
evening rise	3190 Jun 03 12:38	21° I 55'19		minimum elong	3191 May 11 20:24	21° 8 23'47	0°19'46
	3190 Jun 07 10:21	0° ©		asc. node	3191 May 13 17:26	25° 8 24'08	
	3190 Jun 26 20:53 3190 Jun 27 22:11	0° Ω	24901122		3191 May 15 20:53	0°П 6°П39'58	
evening max el desc. node		1° Ω 03'01 5° Ω 22'45	24 01 22	evening rise	3191 May 19 00:01	0°€	
retrograde	3190 Jul 03 09:05 3190 Jul 11 16:39	7° Ω 58'51		avanina may al	3191 May 31 11:29 3191 Jun 09 12:44	າ ອີ 11° ອີ 28'51	22°24'43
evening set	3190 Jul 11 16.39 3190 Jul 16 04:30	7° Ω 14'12		evening max el desc. node	3191 Jun 20 06:04	17°5944'38	22 24 43
min. Earth dist.	3190 Jul 22 08:41		0.56334 AU	retrograde	3191 Jun 22 13:21	17°956'50	
inferior conj	3190 Jul 24 19:20	2° Ω 44'04		evening set	3191 Jun 25 14:12	17° © 36'29	
minimum elong	3190 Jul 24 14:56	2°Ω50'53		min. Earth dist.	3191 Jul 03 19:36	14°502'39	0.55165 AU
minimum clong	3190 Jul 29 16:08	30°Rூ	4 32 30	inferior conj	3191 Jul 04 20:41	13° © 27'08	
morning rise	3190 Aug 02 03:59	28°5945'27		minimum elong	3191 Jul 04 12:28	13° © 38'47	
direct	3190 Aug 04 21:31	28°\$26'07		morning rise	3191 Jul 13 12:48	9° © 36'13	
	3190 Aug 10 16:36	$0^{\circ}\Omega$		direct	3191 Jul 16 13:17	9° © 15'33	
morning max el	3190 Aug 14 18:42	3° Ω 01'27	19°49'48	morning max el	3191 Jul 28 01:43	14° © 37'03	21°10'52
asc. node	3190 Aug 22 19:36	13° Ω 19′02			3191 Aug 08 12:20	$0^{\circ}\Omega$	
	3190 Aug 31 20:32	0° т р		asc. node	3191 Aug 09 16:39	2° Ω 04'50	
morning set	3190 Sep 01 14:47	1° m /31'55		morning set	3191 Aug 16 22:44	16° Ω 15'37	
					3191 Aug 23 12:33	0° ™	
superior conj	3190 Sep 09 10:52	17° m 23'20	1°44'07				
minimum elong	3190 Sep 09 11:38	17° m 27′09	1°44'06	superior conj	3191 Aug 24 07:49	1° m 39'54	1°43'52
max. Earth dist.	3190 Sep 15 05:54	28°M 36'22	1.37209 AU	minimum elong	3191 Aug 24 07:05	1° Mp 36'06	1°43'50
	3190 Sep 15 23:47	0∘ ⊽		max. Earth dist.	3191 Aug 28 15:40	10°M)26'51	1.35402 AU
evening rise	3190 Sep 19 00:46	5° £ 33'56		evening rise	3191 Sep 01 20:35	18° m 35'49	
desc. node	3190 Sep 29 08:25	23° ჲ 01'58			3191 Sep 08 03:36	0∘ ত	
	3190 Oct 03 20:18	0°M₊		desc. node	3191 Sep 16 05:26	13° ≏ 16'45	
evening max el	3190 Oct 24 19:13	26°M54'23	25°32'09		3191 Sep 28 00:07	0° M	
	3190 Oct 28 06:30	0° ∡		evening max el	3191 Oct 07 07:26	10°M33'17	26°33'04
retrograde	3190 Nov 05 23:21	3° ≯ 53'46		retrograde	3191 Oct 20 05:09	17° ጤ 47'07	
evening set	3190 Nov 11 22:17	1° ₹ 24'45		evening set	3191 Oct 26 17:20	15° ™ 07'45	
	3190 Nov 13 10:02	30°RM		min. Earth dist.	3191 Oct 30 19:29	10°M54'18	0.66158 AU
min. Earth dist.	3190 Nov 16 07:33	26°M35'25		inferior conj	3191 Nov 01 11:55	8°M52'55	
inferior conj	3190 Nov 17 12:27	25°M02'42		minimum elong	3191 Nov 01 14:13	8°M45'59	1°23'59
minimum elong	3190 Nov 17 13:07	25°M00'33	0~25'48	asc. node	3191 Nov 05 15:50	4°M25'20	
asc. node	3190 Nov 18 18:47	23°M26'45		morning rise	3191 Nov 07 11:45	3°M08'11	

direct	3191 Nov 10 10:28	2°M19'24		morning rise	3192 Oct 21 13:59	17° ≙ 04'25	
morning max el	3191 Nov 10 10:28 3191 Nov 17 02:00	5°M57'46	18°31'36	asc. node	3192 Oct 21 13:59 3192 Oct 22 12:52	17 = 0423	
morning max ci	3191 Dec 03 19:22	0° √	10 31 30	direct	3192 Oct 22 12:32 3192 Oct 24 05:29	16° ⊆ 27'30	
morning set	3191 Dec 07 06:54	5° ×1 33'37		morning max el	3192 Oct 30 17:22	19° £ 55'30	18°02'29
desc. node	3191 Dec 13 04:40	14° × 757'49		morning max or	3192 Nov 07 07:36	0°M	10 02 2)
dese. Hode	3191 Dec 22 17:39	0°ਰ		morning set	3192 Nov 17 12:24	16°M43'06	
					3192 Nov 25 13:27	0° ∡ ¹	
superior conj	3191 Dec 23 03:30	0° る 38'38	-1°04'06	desc. node	3192 Nov 29 01:43	5° х 41′08	
minimum elong	3191 Dec 22 19:41	0° る 07'59					
max. Earth dist.	3191 Dec 23 15:24	1° る 25'21	1.45210 AU	superior conj	3192 Dec 01 11:31	9° ∡ ³32'43	-0°16'22
evening rise	3192 Jan 08 01:47	25° ⋜ 43'38		minimum elong	3192 Dec 01 09:29	9° ҂ 724'38	0°16'05
Č	3192 Jan 10 18:24	0° ≈		behind sun begin	3192 Dec 01 08:14	9° ∡ 19'37	
greatest brilliancy	3192 Jan 17 06:59	10° ≈ 19′09	-0.8m	behind sun end	3192 Dec 01 10:45	9° ∡ ¹29'40	
evening max el	3192 Jan 30 08:43	28° ≈ 31'03	19°01'29	max. Earth dist.	3192 Dec 05 10:19	15° ∡ ¹48'44	1.44929 AU
	3192 Jan 31 22:37	0°) €			3192 Dec 14 12:16	0°ರ	
asc. node	3192 Feb 01 15:08	0°) €33'15		evening rise	3192 Dec 17 19:43	5° ට 07'16	
retrograde	3192 Feb 06 05:51	2° 升 24'45		greatest brilliancy	3192 Dec 31 15:47	26°る12'27	-0.7m
evening set	3192 Feb 09 13:35	1°) 20′45			3193 Jan 03 05:54	0° ≈	
	3192 Feb 11 06:39	30° ₹ ≈		evening max el	3193 Jan 12 14:28	12° ≈ 01'56	19°52'53
inferior conj	3192 Feb 15 03:58	25° ≈ 34'31	3°26'28	asc. node	3193 Jan 18 12:08	16° ≈ 10'37	
minimum elong	3192 Feb 15 02:11	25° ≈ 40′09	3°26'13	retrograde	3193 Jan 20 03:24	16° ≈ 25′13	
min. Earth dist.	3192 Feb 16 17:34	23° ≈ 35'59	0.65830 AU	evening set	3193 Jan 23 18:55	15° ≈ 07'31	
morning rise	3192 Feb 20 14:25	19° ≈ 22'02		inferior conj	3193 Jan 29 05:26	9° ≈ 07'03	3°02'15
direct	3192 Feb 27 02:02	16° ≈ 31'42		minimum elong	3193 Jan 29 03:01	9° ≈ 15'07	3°01'43
desc. node	3192 Mar 10 03:50	23° ≈ 19'45		min. Earth dist.	3193 Jan 30 04:45	7° ≈ 49'22	0.66926 AU
morning max el	3192 Mar 11 00:23	24° ≈ 10′34	26°33'14	morning rise	3193 Feb 03 10:53	2° ≈ 53'29	
	3192 Mar 16 06:09	0° ℋ		direct	3193 Feb 09 10:08	0° ≈ 13'32	
	3192 Apr 05 21:29	0 ° $\mathbf{\gamma}$		morning max el	3193 Feb 21 09:14	7° ≈ 21'56	25°17'46
morning set	3192 Apr 16 00:35	18° Y 01′06		desc. node	3193 Feb 25 00:53	11° ≈ 19'55	
max. Earth dist.	3192 Apr 20 04:36	26° Y 04'47	1.34694 AU		3193 Mar 11 01:00	0° ∀	
	3192 Apr 22 03:41	9° 8			3193 Mar 29 09:31	0° Υ	
				morning set	3193 Mar 29 14:30	0° Υ 22'25	
superior conj	3192 Apr 24 18:29	5° 8 20'24		max. Earth dist.	3193 Apr 02 06:42	7° Ƴ 07'48	1.36444 AU
minimum elong	3192 Apr 24 21:02	5° 8 33'30	0°48'09				
asc. node	3192 Apr 29 14:28	15° 8 24'57		superior conj	3193 Apr 08 08:34	18° Y 51'38	
evening rise	3192 May 02 09:03	21° 8 12'20		minimum elong	3193 Apr 08 12:29	19° Y 11′03	1°15'58
. ,	3192 May 06 17:36	0°II	2005/111		3193 Apr 13 21:18	0°8	
evening max el	3192 May 21 11:46	22° I 15'30	20°56'11	asc. node	3193 Apr 16 11:29	5° 8 15'32	
retrograde	3192 Jun 02 02:29	27° II 55'53		evening rise	3193 Apr 16 13:36	5° 8 26'17	
evening set desc. node	3192 Jun 04 06:04 3192 Jun 06 03:03	27° Ⅲ 44'58 27° Ⅲ 18'41		avanina may al	3193 Apr 30 16:16 3193 May 03 22:48	0°Ⅱ 3°Ⅱ40'44	19°44'06
	3192 Jun 06 03:03 3192 Jun 13 14:09	23° II 47'19	2000157	evening max el	3193 May 03 22:48 3193 May 13 19:31	3°П40'44 8°П27'43	19-44-06
inferior conj minimum elong	3192 Jun 13 14.09 3192 Jun 13 08:08	23° II 55'51		retrograde evening set	3193 May 15 19:09	8° П 16'58	
min. Earth dist.	3192 Jun 13 08:08 3192 Jun 14 07:35		0.54877 AU	desc. node	3193 May 24 00:05	4° П 36'46	
morning rise	3192 Jun 22 10:00	19° ∏ 44'44	0.54877 AO	inferior conj	3193 May 24 10:14	4° Ⅱ 14'50	-0°10'23
direct	3192 Jun 25 22:34	19° Ⅱ 17'57		minimum elong	3193 May 24 13:46	4° Ⅱ 15'34	
morning max el	3192 Jul 08 22:18	25° I [31'01	22°47'55	transit middle	3193 May 24 13:46	4° Ⅱ 15'34	
morning max or	3192 Jul 13 03:04	0°95	22 17 33	transit begin	3193 May 24 10:44	4° Ⅱ 20'16	0 10 15
asc. node	3192 Jul 26 13:42	21° © 20'54		transit end	3193 May 24 16:48	4° Ⅱ 10'51	
	3192 Jul 30 20:30	$0^{\circ}\Omega$		min. Earth dist.	3193 May 26 21:11		0.55561 AU
morning set	3192 Jul 31 09:29	1° Ω 07'57			3193 Jun 01 10:46	30° R 8	
C				morning rise	3193 Jun 02 06:00	29° 8 43'32	
superior conj	3192 Aug 07 11:57	16° Ω 17'52	1°37'01	direct	3193 Jun 06 14:44	29° 8 01'16	
minimum elong	3192 Aug 07 10:11	16° Ω 08′27	1°36'52		3193 Jun 11 17:00	$0^{\circ}\Pi$	
max. Earth dist.	3192 Aug 10 10:16		1.33962 AU	morning max el	3193 Jun 20 12:53	5° Ⅱ 58'21	24°30'42
	3192 Aug 14 02:37	0° m			3193 Jul 07 18:20	0°ಅ	
evening rise	3192 Aug 15 06:47	2° m 19'43		asc. node	3193 Jul 13 10:45	10° © 58'42	
	3192 Aug 31 00:43	0∘ ⊽		morning set	3193 Jul 15 21:16	16°902'57	
desc. node	3192 Sep 02 02:25	3° ჲ 09'06		-	3193 Jul 22 08:04	$0^{\circ}\Omega$	
evening max el	3192 Sep 18 19:43	24° ≏ 02'27	27°13'24				
	3192 Sep 26 21:32	0°M		superior conj	3193 Jul 22 20:38	1° Ω 08'19	1°24'42
retrograde	3192 Oct 02 05:20	1°M20'50		minimum elong	3193 Jul 22 18:20	0° Ω 55'51	1°24'24
	3192 Oct 07 03:35	30° ₹ Ω		max. Earth dist.	3193 Jul 24 13:41	4° Ω 50'43	1.32934 AU
evening set	3192 Oct 09 04:09	28° ≏ 38'33		evening rise	3193 Jul 30 03:24	16° £ 33'31	
min. Earth dist.	3192 Oct 12 23:59	25° ≏ 00'32	0.64872 AU		3193 Aug 06 02:10	0° m	
inferior conj	3192 Oct 15 04:34	22° ≏ 35'37		desc. node	3193 Aug 19 23:25	22° m 28'53	
minimum elong	3192 Oct 15 08:34	22° £ 24'35	2°23'39		3193 Aug 25 16:45	0∘ ⊽	

	3195 Jul 26 03:12	0° m		desc. node	3196 Jul 10 14:28	14° Ω 27'18	
evening max el	3195 Jul 27 12:30	1° Mg 22'08	26°14'52	retrograde	3196 Jul 22 04:03	19° Ω 23'54	
retrograde	3195 Aug 10 11:58	8° mp 32'21	20 14 32	evening set	3196 Jul 27 12:03	18° Ω 19'08	
evening set	3195 Aug 16 23:51	6° Mp 48'48		min. Earth dist.	3196 Aug 01 16:33	15° Ω 32'25	0.57298 AU
min. Earth dist.	3195 Aug 21 01:23	4° Mp 13'26	0.59275 AU	inferior conj	3196 Aug 04 15:09	13°Ω35'30	
inferior conj	3195 Aug 24 08:20	1° mp 43'08		minimum elong	3196 Aug 04 14:10	13° Ω 37'09	
minimum elong	3195 Aug 24 12:04	1° m 35'59		morning rise	3196 Aug 12 18:51	9° Ω 26'33	0 00 11
g	3195 Aug 26 16:05	30°R Ω	. 55	direct	3196 Aug 15 08:58	9° Ω 07'21	
morning rise	3195 Sep 01 02:28	27° Ω 12'17		morning max el	3196 Aug 24 10:16	13° Ω 22'00	19°12'30
direct	3195 Sep 03 12:50	26° Ω 51'52		asc. node	3196 Aug 30 01:07	20° Ω 09'17	
	3195 Sep 10 16:21	O° M⊅			3196 Sep 04 22:50	0° m	
morning max el	3195 Sep 11 09:28	0°m/39'13	18°24'39	morning set	3196 Sep 10 09:26	10°m/29'50	
asc. node	3195 Sep 13 04:04	2° m/31'40		C	1	•	
morning set	3195 Sep 27 10:05	26° m) 11'22		superior conj	3196 Sep 18 14:20	26° Mp 44'46	1°40'44
S	3195 Sep 29 09:45	0 o $\overline{\mathbf{v}}$		minimum elong	3196 Sep 18 16:07	26° m 53'25	1°40'39
	•			· ·	3196 Sep 20 06:54	0° ٽ	
superior conj	3195 Oct 06 11:48	13° ≏ 23'01	1°27'38	max. Earth dist.	3196 Sep 25 03:24	9° ₽ 03'03	1.38359 AU
minimum elong	3195 Oct 06 15:18	13° ≏ 39'06	1°27'19	evening rise	3196 Sep 28 22:21	15° ≏ 47'59	
max. Earth dist.	3195 Oct 13 23:28	26° ≏ 44'33	1.40435 AU	desc. node	3196 Oct 06 13:49	28° ≏ 35'49	
	3195 Oct 15 21:13	0°M.			3196 Oct 07 10:52	0°M	
evening rise	3195 Oct 18 09:59	4°MJ4'27			3196 Oct 28 17:36	0° ∡ ¹	
desc. node	3195 Oct 20 16:48	7° M 59'01		evening max el	3196 Nov 03 12:53	6° ≯ 22'03	24°50'48
	3195 Nov 04 02:36	0° ⊼ ¹		retrograde	3196 Nov 15 04:55	13° ₹ 09'05	
evening max el	3195 Nov 22 00:20	22° ҂ ¹42'20	23°32'34	evening set	3196 Nov 20 19:36	10° ∡ 748'15	
retrograde	3195 Dec 02 15:18	28° ₹ 59'12		min. Earth dist.	3196 Nov 25 09:13	5° ∡ ³38'28	0.67472 AU
evening set	3195 Dec 07 16:14	26° ₹ 53'55		inferior conj	3196 Nov 26 07:46	4° ҂ 23'55	0°06'24
asc. node	3195 Dec 10 03:16	24° ∡ ¹21'29		minimum elong	3196 Nov 26 07:36	4° ҂ 24′28	0°06'20
min. Earth dist.	3195 Dec 12 13:58	21° √ 10'17	0.67863 AU	transit middle	3196 Nov 26 07:36	4° ҂ ¹24'28	0°06'20
inferior conj	3195 Dec 13 01:53	20° ∡ ¹29'28	0°59'28	transit begin	3196 Nov 26 05:04	4° ∡ ³32'52	
minimum elong	3195 Dec 13 00:33	20° х 34′05	0°58'55	transit end	3196 Nov 26 10:09	4° √ 16'04	
morning rise	3195 Dec 18 08:50	14° ∡ ¹22'48		asc. node	3196 Nov 26 00:18	4° ∡ ¹48'37	
direct	3195 Dec 22 12:20	12° ∡ ¹46'30			3196 Nov 29 22:56	30° ₹M ₊	
morning max el	3195 Dec 30 21:24	17° ∡ ³37'41	21°00'48	morning rise	3196 Dec 01 19:45	28°M23'32	
_	3196 Jan 09 21:57	0°రె		direct	3196 Dec 05 10:33	27°MJ08'11	
desc. node	3196 Jan 16 16:01	9° ප 39'22			3196 Dec 11 10:38	0° ∡ ¹	
morning set	3196 Jan 30 03:03	0° ≈ 05'45		morning max el	3196 Dec 12 21:52	1° ∡ ¹22'35	19°50'52
_	3196 Jan 30 01:35	0° ≈		desc. node	3197 Jan 02 13:03	29° ∡ ¹55'47	
max. Earth dist.	3196 Feb 07 02:11	12° ≈ 48'47	1.42651 AU		3197 Jan 02 14:10	0°ಕ	
				morning set	3197 Jan 07 22:54	8° ප 13'56	
superior conj	3196 Feb 14 03:56	24° ≈ 35'11	-2°06'38	max. Earth dist.	3197 Jan 19 12:35	26° る 20'55	1.44169 AU
minimum elong	3196 Feb 14 03:46	24° ≈ 34'26	2°06'37		3197 Jan 21 19:26	0° ≈	
	3196 Feb 17 07:38	0°) €					
evening rise	3196 Feb 25 18:59	14°) 59'11		superior conj	3197 Jan 24 11:41	4° ≈ 19′08	-1°57'05
	3196 Mar 05 08:08	0 ° Υ		minimum elong	3197 Jan 24 05:44	3° ≈ 54'59	1°56'46
asc. node	3196 Mar 07 02:36	2° Y 51'57		evening rise	3197 Feb 06 21:01	26° ≈ 37'44	
evening max el	3196 Mar 13 14:08	11° Y 24'41	18°07'14		3197 Feb 08 20:26	0°) €	
retrograde	3196 Mar 20 05:01	14° Ƴ 48'26		asc. node	3197 Feb 21 23:37	21° ∺ 01′00	
evening set	3196 Mar 22 21:28	14° Ƴ 14'54		evening max el	3197 Feb 25 02:48	24°) 41'11	18°14'04
inferior conj	3196 Mar 29 10:45	9° Ƴ 15'45	3°23'51	retrograde	3197 Mar 03 13:17	28° ₩ 06'57	
minimum elong	3196 Mar 29 12:58	9° Ƴ 10′21	3°23'33	evening set	3197 Mar 06 11:23	27° ∺ 22'13	
min. Earth dist.	3196 Apr 01 14:19	6° Ƴ 12'50	0.61244 AU	inferior conj	3197 Mar 12 13:08	22°) €03'27	3°38'50
morning rise	3196 Apr 05 02:38	3° Y 21′04		minimum elong	3197 Mar 12 13:30	22° ℋ 02'26	3°38'50
direct	3196 Apr 11 21:19	1° Y 02'15		min. Earth dist.	3197 Mar 15 03:10	19° 升 13'47	0.63289 AU
desc. node	3196 Apr 13 15:11	1° Ƴ 10'56		morning rise	3197 Mar 18 14:39	15° ¥ 58′21	
morning max el	3196 Apr 26 02:32	8° Ƴ 58'31	27°47'46	direct	3197 Mar 25 12:38	13°) 16′13	
	3196 May 12 06:44	9° 8		desc. node	3197 Mar 31 12:13	14° ∺ 59'05	
morning set	3196 May 28 22:19	0°Ⅲ09′05		morning max el	3197 Apr 08 09:44	21°) 13′38	27°44'45
	3196 May 28 20:33	$\Pi^{\circ}0$			3197 Apr 16 00:36	$0^{\circ}\Upsilon$	
asc. node	3196 Jun 03 01:54	11° Ⅱ 02'30			3197 May 05 08:50	9° 8	
max. Earth dist.	3196 Jun 03 21:42	12° Ⅲ 50′01	1.32258 AU	morning set	3197 May 12 20:45	14° 8 16'09	
				max. Earth dist.	3197 May 18 02:50	25° 8 06'41	1.32846 AU
superior conj	3196 Jun 05 06:22	15° Ⅱ 48'19	0°22'51		3197 May 20 09:44	$\Pi^{\circ}0$	
minimum elong	3196 Jun 05 05:20	15° Ⅱ 42'41	0°22'38				
	3196 Jun 11 18:46	0 \circ \odot		superior conj	3197 May 20 14:14	0° Ⅱ 24'16	
evening rise	3196 Jun 12 03:04	0°5544'09		minimum elong	3197 May 20 14:25	0°Ⅱ25'16	0°03'47
	3196 Jun 28 03:23	$0^{\circ}\Omega$		behind sun begin	3197 May 20 09:16	29° 8 57'32	
evening max el	3196 Jul 08 05:03	12° Ω 19'38	24°55'05	behind sun end	3197 May 20 19:34	0° Ⅱ 53'01	

aga mada	2107 May 20, 22:56	1° I 11'10			2109 May 11 22:57	0° I I	
asc. node	3197 May 20 22:56	15° Д 33'03		avanina rica	3198 May 11 22:57	0° П 0° П 13'21	
evening rise	3197 May 27 14:53	0.2 12.Щ33.03		evening rise	3198 May 12 01:30	0°Щ13′21 0°©	
	3197 Jun 03 19:57		22220112		3198 May 29 09:49		21945120
evening max el desc. node	3197 Jun 19 18:29	22°549'38	23°20'13	evening max el	3198 Jun 01 11:56	3° © 21'08 9° © 30'15	21°45'29
retrograde	3197 Jun 27 11:28 3197 Jul 03 07:31	28°518'26 29°535'48		retrograde desc. node	3198 Jun 13 23:26 3198 Jun 14 08:29	9° © 29'55	
Č		29 \$33 48 29°\$03'41			3198 Jun 16 13:16	9° © 15'19	
evening set min. Earth dist.	3197 Jul 07 03:28 3197 Jul 14 04:15	29 \$303 41 25° \$50'49	0.55741 AU	evening set inferior conj	3198 Jun 25 22:31	5°9513'00	2012/51
inferior conj	3197 Jul 14 04:13 3197 Jul 16 02:10	23 3 3049 24° 9 43'10		minimum elong	3198 Jun 25 14:28	5° 9 24'14	
minimum elong	3197 Jul 15 19:35	24°952'55		min. Earth dist.	3198 Jun 25 15:10	5°923'16	0.54926 AU
morning rise	3197 Jul 13 19:33 3197 Jul 24 14:09	24 3 32 33 20° 9 49'22	4 33 10	morning rise	3198 Jul 04 16:56	1°9519'54	0.34920 AU
direct	3197 Jul 27 10:18	20°S29'44		direct	3198 Jul 07 21:58	0°957'18	
morning max el	3197 Aug 07 00:01	25°\$23'58	20°21'49	morning max el	3198 Jul 20 02:06	6°9540'19	21°50'38
morning max er	3197 Aug 11 04:07	0°Ω	20 21 47	asc. node	3198 Aug 03 19:12	27° © 34'05	21 30 30
asc. node	3197 Aug 16 22:10	8° Ω 34'11		use. Houe	3198 Aug 05 02:02	0°Ω	
morning set	3197 Aug 25 14:58	25° Ω 07'01		morning set	3198 Aug 10 00:21	9° Ω 55'27	
morning set	3197 Aug 27 23:59	0°m		morning set	3170 Aug 10 00.21	7 0 633 21	
	51) / Hug 2 / 25.5)	עויי		superior conj	3198 Aug 17 06:08	25° Ω 12'02	1°41'41
superior conj	3197 Sep 02 05:46	10° m 45'13	1°44'54	minimum elong	3198 Aug 17 04:53	25° Ω 05'34	
minimum elong	3197 Sep 02 05:10	10° mp 45'38	1°44'53	minimum ciong	3198 Aug 19 13:32	0° m)	1 1137
max. Earth dist.	3197 Sep 07 09:46	20° m 58'17		max. Earth dist.	3198 Aug 20 23:27	2° m 53'23	1.34748 AU
evening rise	3197 Sep 11 08:02	28° m) 21'41	1.50.07.110	evening rise	3198 Aug 25 10:31	11° m 43'00	1.5 17 10 110
e vennig rise	3197 Sep 12 05:33	0° ⊽		evening rise	3198 Sep 04 14:57	0∘ ⊽	
desc. node	3197 Sep 23 10:50	19° Ω 00'45		desc. node	3198 Sep 10 07:51	9° ≏ 07'12	
acoc. noue	3197 Sep 30 18:07	0°M		dese. node	3198 Sep 26 00:18	0°M	
evening max el	3197 Oct 17 01:14	20°M.04'03	26°00'09	evening max el	3198 Sep 29 13:45	3°M40'42	26°53'05
retrograde	3197 Oct 29 13:35	27°M10'25	20 00 09	retrograde	3198 Oct 12 16:50	10°M56'31	20 00 00
evening set	3197 Nov 04 18:15	24°M36'40		evening set	3198 Oct 19 10:06	8°M14'56	
min. Earth dist.	3197 Nov 09 00:33	20°M02'16	0.66743 AU	min. Earth dist.	3198 Oct 23 09:31	4°M16'49	0.65663 AU
inferior conj	3197 Nov 10 10:10	18°M17'10		inferior conj	3198 Oct 25 07:01	2°M04'54	
minimum elong	3197 Nov 10 11:30	18°M12'58	0°50'10	minimum elong	3198 Oct 25 10:04	1°M56'05	
asc. node	3197 Nov 12 21:20	15°M20'11	0 00 10	mmmum viong	3198 Oct 27 03:16	30°R Ω	1 .5 15
morning rise	3197 Nov 16 05:09	12°M25'44		asc. node	3198 Oct 30 18:23	26° £ 48'48	
direct	3197 Nov 19 09:11	11°M28'12		morning rise	3198 Oct 31 10:46	26° £ 25'31	
morning max el	3197 Nov 26 05:45	15°M16'27	18°55'50	direct	3198 Nov 03 06:13	25° Ω 42'07	
	3197 Dec 07 06:39	0° ⊼		morning max el	3198 Nov 09 19:11	29° £ 14'35	18°17'06
morning set	3197 Dec 18 07:37	17° ∡ *08′27			3198 Nov 10 12:38	0°M	
desc. node	3197 Dec 20 10:06	20° ₹ 26'08		morning set	3198 Nov 28 20:22	27° M 28'49	
***************************************	3197 Dec 26 12:40	0°る			3198 Nov 30 09:38	0° ⊼	
max. Earth dist.	3198 Jan 02 05:08		1.45047 AU	desc. node	3198 Dec 07 07:08	11° ₹ 05'52	
superior conj	3198 Jan 03 20:54	13° る 05'48	-1°28'12	superior conj	3198 Dec 13 23:05	21° ₹ 39'44	-0°44'11
minimum elong	3198 Jan 03 11:48	12° る 29'55		minimum elong	3198 Dec 13 17:28	21° ✓ 17'36	
	3198 Jan 14 11:54	0° ≈		max. Earth dist.	3198 Dec 16 00:37	24° ₹ ′54'29	1.45185 AU
evening rise	3198 Jan 19 00:42	7° ≈ 19'44			3198 Dec 19 06:33	0°ප	
<i>y</i>	3198 Feb 02 06:21	0° ∀		evening rise	3198 Dec 30 05:34	17° る 08'04	
evening max el	3198 Feb 08 14:28	8°) €06'39	18°39'12		3199 Jan 07 11:29	0° ≈	
asc. node	3198 Feb 08 20:37	8° ¥ 22'06		greatest brilliancy	3199 Jan 10 14:22	4°≈48'22	-0.7m
retrograde	3198 Feb 15 05:20	11°) (46'50		evening max el	3199 Jan 22 22:51	21° ≈ 36'30	19°21'30
evening set	3198 Feb 18 09:23	10°) 49′57		asc. node	3199 Jan 26 17:39	24° ≈ 41'59	
inferior conj	3198 Feb 24 03:04	5°) 13′04	3°35'08	retrograde	3199 Jan 30 01:48	25° ≈ 41'43	
minimum elong	3198 Feb 24 01:54	5°) 16′34		evening set	3199 Feb 02 12:44	24° ≈ 31'51	
min. Earth dist.	3198 Feb 26 01:25	2°) 53′18	0.65020 AU	inferior conj	3199 Feb 08 01:10	18° ≈ 39'01	3°17'28
	3198 Feb 28 16:55	30° R ≈		minimum elong	3199 Feb 07 23:03	18° ≈ 45'53	3°17'06
morning rise	3198 Mar 01 17:58	29°≈02'33		min. Earth dist.	3199 Feb 09 08:24	16°≈57'52	0.66346 AU
direct	3198 Mar 08 11:04	26°≈11'29		morning rise	3199 Feb 13 09:07	12° ≈ 25'55	
	3198 Mar 17 08:14	0°) €		direct	3199 Feb 19 15:45	9° ≈ 39'08	
desc. node	3198 Mar 18 09:15	0° ¥ 50′21		morning max el	3199 Mar 04 05:01	17° ≈ 06′23	26°03'16
morning max el	3198 Mar 21 19:18	3° ¥ 59'57	27°07'27	desc. node	3199 Mar 05 06:18	18°≈11'36	
<i>5 5</i> -	3198 Apr 10 11:31	0° Υ			3199 Mar 14 23:20	0° ∀	
morning set	3198 Apr 26 09:47	27° Υ 51'20			3199 Apr 03 09:48	0°Υ	
	3198 Apr 27 12:13	0°8		morning set	3199 Apr 09 09:35	10° Y 43'57	
max. Earth dist.	3198 Apr 30 22:57	6° 8 53'23	1.33889 AU	max. Earth dist.	3199 Apr 13 07:46	18° Υ 10'02	1.35392 AU
Durin dist.	217011pt 00 22.01	\$ \(\)	1.55507 110	uitii uist.	этээлий тэ от.то	10 1 10 02	1.55572710
superior conj	3198 May 04 17:11	14° 8 40'30	-0°32'06	superior conj	3199 Apr 18 12:49	28° Ƴ 30'32	-1°00'41
minimum elong	3198 May 04 17:11	14° 8 49'12		minimum elong	3199 Apr 18 16:00	28° Y 46'38	1°00'08
asc. node	3198 May 07 19:57	21° 8 15'57	3 31 10	Ciong	3199 Apr 19 06:24	0°8	
	2170 may 01 17.01	U 1331			5177.1pi 17 00.24	, O	

asc. node evening rise	3199 Apr 24 16:59 3199 Apr 26 08:57	11° 8 13'14 14° 8 39'11		minimum elong evening rise	3200 Apr 01 02:19 3200 Apr 09 10:51	12° Υ 06'29 28° Υ 43'02	1°27'04
evening rise	3199 May 04 07:23	0° I		evening rise	3200 Apr 10 02:18	0°8	
evening max el	3199 May 14 15:47	14° Ⅱ 22'25	20°23'08	asc. node	3200 Apr 10 14:01	0° 8 58'04	
retrograde	3199 May 25 12:48	19° Ⅱ 40′13		evening max el	3200 Apr 26 07:44	26° 8 04'43	19°19'19
evening set	3199 May 27 13:05	19° Ⅲ 30′06			3200 May 02 07:12	Π °0	
desc. node	3199 Jun 01 05:29	17° Ⅱ 57'46		retrograde	3200 May 05 11:52	0° Ⅱ 31'47	
inferior conj	3199 Jun 05 16:56	15° Ⅱ 31'58	-1°19'01	evening set	3200 May 07 12:39	0° Ⅱ 19'37	
minimum elong	3199 Jun 05 13:13		1°17'38		3200 May 08 19:33	30° ₹ 8	
min. Earth dist.	3199 Jun 07 03:28	14° Ⅱ 41'35	0.55054 AU	inferior conj	3200 May 15 23:44	26° 8 11'30	0°36'41
morning rise	3199 Jun 14 12:14	11° Ⅱ 19'06		minimum elong	3200 May 16 01:15	26° 8 09'00	0°36'09
direct	3199 Jun 18 08:18	10° Ⅱ 47'20		desc. node	3200 May 18 02:30	24° 8 47'37	
morning max el	3199 Jul 01 19:26	17° Ⅲ 20′02	23°31'52	min. Earth dist.	3200 May 18 18:14	24° 8 22'13	0.56112 AU
,	3199 Jul 12 01:11	0°95		morning rise	3200 May 24 10:52	21° 8 24'48	
asc. node	3199 Jul 21 16:16	17°500'05		direct	3200 May 29 05:35 3200 Jun 12 09:39	20° 8 32'23	25912140
morning set	3199 Jul 25 11:45 3199 Jul 27 22:02	24° © 49'34 0° Ω		morning max el	3200 Jun 12 09.39 3200 Jun 14 14:52	27° 8 44'53 0° Ⅱ	23 12 40
	3199 Jul 27 22.02	0 86			3200 Jul 14 14:32 3200 Jul 04 05:02	0° ©	
superior conj	3199 Aug 01 12:29	9° Ω 56'07	1°32'24	asc. node	3200 Jul 04 03:02 3200 Jul 07 13:19	6°945'04	
minimum elong	3199 Aug 01 10:26	9° Ω 45'04		morning set	3200 Jul 07 13:17 3200 Jul 08 23:31	9° 5 44'12	
max. Earth dist.	3199 Aug 03 22:02	15°Ω03'31	1.33473 AU	morning set	3200 Jul 00 23.31) 34412	
evening rise	3199 Aug 09 01:33	25° Ω 40'25	1.55 1,5 110	superior conj	3200 Jul 15 22:29	24°950'00	1°18'02
e vennig 119e	3199 Aug 11 06:16	0° m		minimum elong	3200 Jul 15 20:07	24° © 37'04	1°17'42
desc. node	3199 Aug 28 04:51	28° m) 47'05		max. Earth dist.	3200 Jul 17 04:14	27° © 32'25	1.32613 AU
	3199 Aug 29 00:58	0∘ <u>⊽</u>			3200 Jul 18 07:26	$0^{\circ}\Omega$	
evening max el	3199 Sep 12 01:27	17° ≏ 01'05	27°22'29	evening rise	3200 Jul 23 01:36	10° Ω 03'54	
retrograde	3199 Sep 25 14:18	24° ≏ 19'15			3200 Aug 02 13:29	o° mp	
evening set	3199 Oct 02 16:32	21° ≏ 38'17		desc. node	3200 Aug 14 01:51	17° m 49'28	
min. Earth dist.	3199 Oct 06 09:59	18° ≙ 14'57	0.64226 AU	evening max el	3200 Aug 24 10:32	29° m 53'25	27°22'19
inferior conj	3199 Oct 08 19:58	15° ≏ 42'00	-2°50'29		3200 Aug 24 13:19	0∘ ত	
minimum elong	3199 Oct 09 00:37	15° ≏ 29'42	2°48'50	retrograde	3200 Sep 07 05:30	22'29 ≏ 09	
morning rise	3199 Oct 15 09:53	10° ≙ 17'52		evening set	3200 Sep 14 10:08	4° ≙ 40'50	
direct	3199 Oct 17 23:06	9° £ 44'55		min. Earth dist.	3200 Sep 18 00:30	1° ≏ 46'15	0.62461 AU
asc. node	3199 Oct 17 15:27	9° ≏ 45'26			3200 Sep 19 21:50	30°₽, Mp	
morning max el	3199 Oct 24 11:26	13° ≏ 10'43	17°55'22	inferior conj	3200 Sep 20 22:10	29° m 02'07	
	3199 Nov 05 03:18	0°M		minimum elong	3200 Sep 21 03:49	28° Mp 48'45	3°45'40
morning set	3199 Nov 10 13:14	9° M .11'11		morning rise	3200 Sep 27 23:06	23° m 56'23	
	3199 Nov 23 00:44	0°⊀		direct	3200 Sep 30 08:49	23° m 30'27	
	2100 N 22 15.15	00.75051	0902142	asc. node	3200 Oct 03 12:32	24° Mp 16'26	17951122
superior conj minimum elong	3199 Nov 23 15:15 3199 Nov 23 15:40	0° ₹ 58'51 1° ₹ 00'32	0°03'42 0°03'38	morning max el	3200 Oct 07 03:30 3200 Oct 09 19:28	26° Mp 57'56 0° <u>₽</u>	17-31-32
behind sun begin	3199 Nov 23 15:44 3199 Nov 23 05:44	0° ₹20'15	0 03 38	morning set	3200 Oct 09 19:28 3200 Oct 23 04:26	0 = 21° ⊆ 58'00	
behind sun begin	3199 Nov 24 01:36	1° х 40'44		morning set	3200 Oct 23 04:20 3200 Oct 27 16:48	21 = 38 00 0	
desc. node	3199 Nov 24 04:09	1°×751'02			3200 Oct 27 10.40	O IIIG	
max. Earth dist.	3199 Nov 28 19:09	9° × 15'17	1.44589 AU	superior conj	3200 Nov 03 09:15	11° M 34'49	0°45'02
evening rise	3199 Dec 09 17:50	26° ₹ 19'58		minimum elong	3200 Nov 03 13:07	11°M51'12	0°44'30
<i>y</i>	3199 Dec 12 03:11	0°₹		desc. node	3200 Nov 10 01:11	22°M38'48	
	3200 Jan 01 16:52	0° ≈		max. Earth dist.	3200 Nov 10 10:15	23°M15'36	1.43340 AU
evening max el	3200 Jan 06 02:16	5° ≈ 07'18	20°19'05		3200 Nov 14 15:11	0°⊀	
retrograde	3200 Jan 13 23:52	9° ≈ 45'55		evening rise	3200 Nov 18 04:08	5° ∡ ³33'23	
asc. node	3200 Jan 13 14:42	9° ≈ 45′07			3200 Dec 04 12:01	8°0	
evening set	3200 Jan 17 19:10	8° ≈ 21'56		evening max el	3200 Dec 19 00:13	18° る 39'42	21°28'52
inferior conj	3200 Jan 23 04:39	2° ≈ 15'58	2°49'01	retrograde	3200 Dec 27 21:25	23° る 56'24	
minimum elong	3200 Jan 23 02:07	2° ≈ 24'31	2°48'22	asc. node	3200 Dec 30 11:45	23° る 19'30	
min. Earth dist.	3200 Jan 23 22:15	1°≈16'14	0.67260 AU	evening set	3201 Jan 01 02:52	22° る 17'06	
	3200 Jan 24 21:07	30°Ŗる		inferior conj	3201 Jan 06 11:14	16° පි 01'11	
morning rise	3200 Jan 28 08:52	26°る02'17		minimum elong	3201 Jan 06 08:49	16° る 09'34	2°11'08
direct	3200 Feb 03 01:56	23° る 29'38		min. Earth dist.	3201 Jan 06 16:42	15° 3 42'16	0.67786 AU
	3200 Feb 14 05:07	0°≈ 0°≈ •21122	24941140	morning rise	3201 Jan 11 14:35	9° る 48'45	
morning max el	3200 Feb 14 13:43	0°≈21'33	24°41'40	direct	3201 Jan 16 16:55	7° る 36'20	22012157
desc. node	3200 Feb 20 03:20	6°≈36'16 0° 米		morning max el desc. node	3201 Jan 26 22:45	13°る41'37 25°る46'25	23 12 30
morning set	3200 Mar 07 21:29 3200 Mar 21 14:55	0° K 22° ∺ 38'49		desc. Hode	3201 Feb 06 00:24 3201 Feb 09 02:42	25° ⊙ 46′25 0° ≈	
max. Earth dist.	3200 Mar 21 14.33 3200 Mar 25 06:21	22 K 38 49 29° X 11'34	1.37296 AU		3201 Feb 09 02.42 3201 Feb 28 19:32	0 ≈ 0° ∀	
max. Lutin dist.	3200 Mar 25 16:55	29 γ 11 34	1.5/2/0/10	morning set	3201 Pc0 28 19:32 3201 Mar 02 19:32	3°) 19′24	
	2010.00			max. Earth dist.	3201 Mar 07 01:02	10°) 32′00	1.39444 AU
superior conj	3200 Mar 31 21:59	11° Y 45'26	-1°27'41			–	
		-					

	2201.14 14 14 14	240)/15117	1050112		2202 F. L. 24, 15, 50	501/40101	2004110
superior conj	3201 Mar 14 16:41	24° H 15'17		superior conj	3202 Feb 24 15:59	5°) 48′21	
minimum elong	3201 Mar 14 21:05	24° H 35'39	1°49'49	minimum elong	3202 Feb 24 18:19	5° ¥ 58'33	2°04'14
	3201 Mar 17 18:22	0° Υ		evening rise	3202 Mar 07 09:50	25°) 13′59	
evening rise	3201 Mar 24 04:19	12° Y 17′22			3202 Mar 10 00:03	0° Y	
asc. node	3201 Mar 28 11:03	20° Y 25′20		asc. node	3202 Mar 15 08:06	9° Y 28'54	
	3201 Apr 02 22:54	0°8		evening max el	3202 Mar 23 18:31	21° Y 14′24	18°11'59
evening max el	3201 Apr 09 09:46	8° 8 25'01	18°35'38	retrograde	3202 Mar 30 16:12	24° Y 42'50	
retrograde	3201 Apr 17 04:43	12° 8 14'20		evening set	3202 Apr 02 05:28	24° Y 15′04	
evening set	3201 Apr 19 11:37	11° 8 55'42		inferior conj	3202 Apr 09 03:05	19° Ƴ 27'32	
inferior conj	3201 Apr 27 02:53	7° 8 29'12	2°06'56	minimum elong	3202 Apr 09 06:16	19° Ƴ 20′23	3°03'41
minimum elong	3201 Apr 27 06:38	7° 8 21'57	2°05'50	min. Earth dist.	3202 Apr 12 11:46	16° Ƴ 27'37	0.59999 AU
min. Earth dist.	3201 Apr 30 12:18	4° 8 53'29	0.57878 AU	morning rise	3202 Apr 16 04:46	13° Ƴ 42'53	
morning rise	3201 May 04 22:30	2° 8 09'10		desc. node	3202 Apr 21 20:35	11° Ƴ 44'55	
desc. node	3201 May 04 23:33	2° 8 07'55		direct	3202 Apr 22 17:28	11° Y 42'49	
direct	3201 May 10 17:21	0° 8 44'44		morning max el	3202 May 07 01:01	19° Ƴ 33'33	27°32'34
morning max el	3201 May 25 02:21	8° 8 22'00	26°37'21		3202 May 15 22:11	$_{0\circ}$ 8	
	3201 Jun 10 09:29	$\Pi^{\circ}0$			3202 Jun 03 03:32	$\Pi^{\circ}0$	
morning set	3201 Jun 23 09:57	24° Ⅲ 33'35		morning set	3202 Jun 07 17:24	9° Ⅱ 12'22	
asc. node	3201 Jun 24 10:21	26° Ⅱ 42'46		asc. node	3202 Jun 11 07:23	16° Ⅱ 48'24	
	3201 Jun 25 23:05	0ം ഉ		max. Earth dist.	3202 Jun 14 03:01	22° Ⅱ 57'12	1.32114 AU
superior conj	3201 Jun 30 10:08	9° 5 46'29	0°59'23	superior conj	3202 Jun 14 21:42	24° Ⅱ 39'53	0°37'06
minimum elong	3201 Jun 30 07:56	9° © 34'25	0°59'00	minimum elong	3202 Jun 14 20:07	24° Ⅲ 31'14	0°36'47
max. Earth dist.	3201 Jun 30 15:07	10°©13'56	1.32164 AU	Č	3202 Jun 17 07:52	0ංම	
evening rise	3201 Jul 07 07:46	24°5944'00		evening rise	3202 Jun 21 17:43	9° © 33'14	
Č	3201 Jul 09 21:02	$0^{\circ}\Omega$		Č	3202 Jul 02 06:05	$0^{\circ}\Omega$	
	3201 Jul 27 08:48	0° m/y		desc. node	3202 Jul 18 19:52	22° Ω 51'22	
desc. node	3201 Jul 31 22:52	5° m 58'13		evening max el	3202 Jul 19 11:08	23° £ 28′23	25°43'47
evening max el	3201 Aug 06 14:27	12° m 04'50	26°48'58	evening max er	3202 Jul 29 13:20	0° m)	23 13 17
retrograde	3201 Aug 20 12:54	19° m 16'40	20 1030	retrograde	3202 Aug 02 10:44	0° m ₂ 35'53	
evening set	3201 Aug 20 12:34 3201 Aug 27 10:21	17° Mp 13'44		renograde	3202 Aug 02 10:44 3202 Aug 06 07:37	30°R Ω	
min. Earth dist.	3201 Aug 27 10:21 3201 Aug 31 04:33	14° m 35'58	0.60463 AU	evening set	3202 Aug 08 12:26	29° Ω 08'49	
	•	14 m/ 55'35		min. Earth dist.	=	29° Ω 30'51	0.58410 AU
inferior conj	3201 Sep 03 10:09				3202 Aug 12 23:18		
minimum elong	3201 Sep 03 15:18	11° mp 44'54	4°33'49	inferior conj	3202 Aug 16 04:24	24° Ω 12'45	
morning rise	3201 Sep 10 22:10	7° m 11'06		minimum elong	3202 Aug 16 06:28	24° Ω 09'03	5°02'56
direct	3201 Sep 13 07:24	6° m/49'18		morning rise	3202 Aug 24 02:43	19° £ 51'17	
asc. node	3201 Sep 20 09:35	10° m 11'19		direct	3202 Aug 26 14:34	19° Ω 31'26	
morning max el	3201 Sep 20 16:06	10° m/26'50	18°06'42	morning max el	3202 Sep 03 22:01	23° Ω 28'47	18°42'19
	3201 Oct 03 12:39	0∘ ত		asc. node	3202 Sep 07 06:37	27° Ω 15'34	
morning set	3201 Oct 06 11:40	5° ≏ 30'16			3202 Sep 09 06:10	0° m ∕	
				morning set	3202 Sep 20 06:10	19° m 34'48	
superior conj	3201 Oct 16 05:08	23° £ 25'59	1°15'22		3202 Sep 25 14:38	0∘ ऌ	
minimum elong	3201 Oct 16 09:17	23° ≏ 44'35	1°14'54				
	3201 Oct 19 22:32	0°M₊		superior conj	3202 Sep 28 22:03	6° ≏ 19'03	1°34'24
max. Earth dist.	3201 Oct 23 20:30	6° M 41′13	1.41591 AU	minimum elong	3202 Sep 29 00:52	6° ≏ 32'16	1°34'11
desc. node	3201 Oct 27 22:13	13°M25'07		max. Earth dist.	3202 Oct 06 02:14	19° ≏ 24'25	1.39559 AU
evening rise	3201 Oct 29 04:20	15°M27'01		evening rise	3202 Oct 10 03:05	26° ≏ 22'31	
	3201 Nov 07 12:30	0° ∡ ¹			3202 Oct 12 07:02	0° M	
	3201 Nov 29 14:35	8°0		desc. node	3202 Oct 14 19:14	4°M06'24	
evening max el	3201 Dec 01 17:13	2° る 14'13	22°46'33		3202 Nov 01 04:03	0°⊀	
retrograde	3201 Dec 11 16:42	8° る 09'35		evening max el	3202 Nov 14 06:49	15° ∡ 751'52	24°06'26
evening set	3201 Dec 16 10:07	6° ප 13'56		retrograde	3202 Nov 25 08:34	22° ∡ ¹21'59	
asc. node	3201 Dec 17 08:48	5° පි 22'21		evening set	3202 Nov 30 15:22	20° ₹ 09'49	
inferior conj	3201 Dec 21 18:57	29° ₹ 151'40	1°27'43	asc. node	3202 Dec 04 05:50	16° ∡ 12'22	
minimum elong	3201 Dec 21 17:05	29° ₹ ¹58'06	1°26'59	min. Earth dist.	3202 Dec 05 09:32	14° ≯ 740'38	0.67744 AU
min. Earth dist.	3201 Dec 21 13:15	0°る11'23	0.67941 AU	inferior conj	3202 Dec 06 01:58	13° ∡ ¹45′08	0°37'32
	3201 Dec 21 16:32	30°Ŗ ⋌ 7		minimum elong	3202 Dec 06 01:05	13° ҂ 748′07	0°37'10
morning rise	3201 Dec 26 23:55	23° ₹ 42'23		morning rise	3202 Dec 11 10:49	7° ∡ ¹41'02	
direct	3201 Dec 31 11:34	21° х 52'48		direct	3202 Dec 15 08:47	6° х 13′54	
morning max el	3202 Jan 09 11:38	27°×709'01	21°46'33	morning max el	3202 Dec 23 07:35	10° х 47′35	20°29'24
	3202 Jan 12 03:01	0°ਰ		0	3203 Jan 06 23:55	0° ਰ	•
desc. node	3202 Jan 23 21:27	0 ර 15° ට 29'06		desc. node	3203 Jan 10 18:30	5° 云 35'07	
acse. node	3202 Jan 23 21:27 3202 Feb 02 17:09	13 3 29 00 0° ≈		morning set	3203 Jan 20 19:34	20°පි53'05	
morning set	3202 Feb 02 17:09 3202 Feb 10 19:11	0 ≈ 12°≈36'50		morning set	3203 Jan 26 15:08	20 ℃ 33 03	
max. Earth dist.	3202 Feb 10 19:11 3202 Feb 16 23:59	12 ≈30 30 22°≈42'58	1.41565 AU	max. Earth dist.	3203 Jan 30 06:50	0 ≈ 5°≈50'31	1.43369 AU
max. Earm Wist.	3202 Feb 10 23:39 3202 Feb 21 07:35	22 ≈ 42 38	1.71303 AU	max. Larui uist.	5205 Jan 50 00.50	5 ~30 J1	1.73307 AU
	5202100 21 07.55	υ Λ		superior conj	3203 Feb 05 14:53	16°≈12'55	-2°04'52
				superior conj	5205 FCU US 14.53	10 ~1233	2 07 32

	3204 Dec 23 01:42	0°ප		morning max el	3205 Nov 02 13:00 3205 Nov 08 10:25	22° £ 31′26 0° M	18°05'39
superior conj	3204 Dec 25 15:40	4° ට 3'11	-1°10'49	morning set	3205 Nov 20 15:02	19°MJ38'42	
minimum elong	3204 Dec 25 13:40 3204 Dec 25 07:18	3° 云 30'21		morning set	3205 Nov 26 22:09	0°×7	
max. Earth dist.	3204 Dec 25 13:59	3° そ 56'32	1.45191 AU	desc. node	3205 Dec 01 09:33	7° √ 14'31	
evening rise	3205 Jan 10 09:51	28°₹56'40	1.10171110	dese. node	3200 200 01 03.55	, ,, 1131	
	3205 Jan 11 01:44	0° ≈		superior conj	3205 Dec 04 21:29	12° ₹ '49'46	-0°23'38
greatest brilliancy	3205 Jan 18 18:35	12°≈16'34	-0.8m	minimum elong	3205 Dec 04 18:31	12° ∡ ³37'58	0°23'14
· ·	3205 Jan 31 03:05	0° ∀		max. Earth dist.	3205 Dec 08 09:08	18° ₹ 20'42	1.45022 AU
evening max el	3205 Feb 01 05:33	1° ₩ 11'11	18°55'12		3205 Dec 15 19:57	0° ට	
asc. node	3205 Feb 02 23:11	2°) 47'35		evening rise	3205 Dec 21 06:16	8° る 25'23	
retrograde	3205 Feb 08 00:51	5°) €01'02		greatest brilliancy	3206 Jan 03 12:52	28° る 44'47	-0.7m
evening set	3205 Feb 11 07:35	3° ¥ 58'57			3206 Jan 04 09:05	0° ≈	
	3205 Feb 15 12:32	30°R ≈		evening max el	3206 Jan 15 12:03	14° ≈ 41'41	19°44'22
inferior conj	3205 Feb 16 22:44	28° ≈ 15'11	3°29'08	asc. node	3206 Jan 20 20:15	18° ≈ 36′24	
minimum elong	3205 Feb 16 21:06	28° ≈ 20′18	3°28'56	retrograde	3206 Jan 22 22:09	18° ≈ 59'54	
min. Earth dist.	3205 Feb 18 14:38	26° ≈ 10'48	0.65634 AU	evening set	3206 Jan 26 12:29	17° ≈ 44'13	
morning rise	3205 Feb 22 10:15	22° ≈ 03'08		inferior conj	3206 Jan 31 23:25	11° ≈ 45'43	3°06'34
direct	3205 Feb 28 23:28	19° ≈ 12'05		minimum elong	3206 Jan 31 21:04	11° ≈ 53'31	3°06'04
desc. node	3205 Mar 12 11:44	25° ≈ 24'24		min. Earth dist.	3206 Feb 02 00:44	10° ≈ 21′56	0.66789 AU
morning max el	3205 Mar 14 00:33	26° ≈ 53'59	26°42'50	morning rise	3206 Feb 06 05:26	5° ≈ 32'18	
	3205 Mar 16 22:12	0° ∀		direct	3206 Feb 12 06:42	2° ≈ 50'18	
	3205 Apr 07 05:09	$0^{\circ}\mathbf{\Upsilon}$		morning max el	3206 Feb 24 09:34	10° ≈ 03'49	25°30'01
morning set	3205 Apr 18 22:41	20° Y 46′51		desc. node	3206 Feb 27 08:47	13° ≈ 14'45	
max. Earth dist.	3205 Apr 23 04:53	29° Y ′04'35	1.34468 AU		3206 Mar 12 04:50	0° ∀	
	3205 Apr 23 15:59	9° 8			3206 Mar 30 19:38	0° Υ	
				morning set	3206 Apr 01 15:21	3° Y 16'33	
superior conj	3205 Apr 27 13:40	7° 8 57'42		max. Earth dist.	3206 Apr 05 08:41	10° 'Y' 10'27	1.36158 AU
minimum elong	3205 Apr 27 15:58	8° 8 09'40	0°43'50				
asc. node	3205 May 01 22:29	17° 8 06'17		superior conj	3206 Apr 11 05:19	21° Υ 34'07	
evening rise	3205 May 05 02:27	23° 8 44'13		minimum elong	3206 Apr 11 09:03	21° Y 52'46	1°11'51
	3205 May 08 04:01	0°Ⅱ 25°Ⅱ1911€	21000122		3206 Apr 15 09:27	0° と 6° と 58'49	
evening max el	3205 May 24 12:55 3205 May 31 04:51	25°∏18'16 0°©	21 08 32	asc. node	3206 Apr 18 19:32	8° 8 01'29	
retrograde	3205 Jun 05 09:22	1° 5 06'17		evening rise	3206 Apr 19 07:52 3206 May 01 11:30	0°Ⅱ	
evening set	3205 Jun 07 15:01	0°954'39		evening max el	3206 May 06 22:08	6° Ⅱ 37'09	19°53'37
desc. node	3205 Jun 08 10:55	0°944'42		retrograde	3206 May 17 00:59	11° I I31'50	17 33 37
dese. Hode	3205 Jun 10 21:00	30°RⅡ		evening set	3206 May 17 00:35 3206 May 19 00:31	11° Д 31'30	
inferior conj	3205 Jun 16 23:57	26° II 56'29	-2°27'37	desc. node	3206 May 26 07:58	8° I 18'06	
minimum elong	3205 Jun 16 17:14	27° I 05'57	2°25'20	inferior conj	3206 May 27 22:09	7° Ⅱ 20'41	-0°28'06
min. Earth dist.	3205 Jun 17 11:05	26° Ⅱ 40'49	0.54857 AU	minimum elong	3206 May 27 20:52	7° Ⅱ 22'39	
morning rise	3205 Jun 25 19:37	22° II 56'56		min. Earth dist.	3206 May 30 00:12	6° Ⅱ 04'33	0.55402 AU
direct	3205 Jun 29 06:03	22° I I31'26		morning rise	3206 Jun 05 15:08	2° ∏ 54'39	
morning max el	3205 Jul 12 01:00	28° Ⅱ 36'57	22°32'44	direct	3206 Jun 09 20:29	2° Ⅱ 15′28	
	3205 Jul 13 10:56	0ං ව		morning max el	3206 Jun 23 16:04	9°∏06′22	24°15'36
asc. node	3205 Jul 28 21:44	23° 5 07'09			3206 Jul 09 01:41	0 \circ \odot	
	3205 Aug 01 08:43	$0^{\circ}\Omega$		asc. node	3206 Jul 15 18:47	12° © 41'55	
morning set	3205 Aug 03 02:19	3° Ω 35'47		morning set	3206 Jul 18 14:05	18° © 30'43	
					3206 Jul 23 21:57	$0^{\circ}\Omega$	
superior conj	3205 Aug 10 05:32	18° Ω 47'12					
minimum elong	3205 Aug 10 03:53	18° Ω 38′28		superior conj	3206 Jul 25 13:42	3° Ω 36′05	
max. Earth dist.	3205 Aug 13 08:36		1.34155 AU	minimum elong	3206 Jul 25 11:27	3° Ω 23'54	
	3205 Aug 15 15:07	0° m ∕		max. Earth dist.	3206 Jul 27 10:58	7° Ω 40′29	1.33065 AU
evening rise	3205 Aug 18 02:39	4° m 56'04		evening rise	3206 Aug 01 21:58	19° Ω 05'54	
	3205 Sep 01 06:32	0∘ ⊽			3206 Aug 07 12:22	0° т р	
desc. node	3205 Sep 04 10:14	4° £ 52'31		desc. node	3206 Aug 22 07:16	24° m 17'53	
evening max el	3205 Sep 21 19:41	26° £ 44'07	27°08'56		3206 Aug 26 12:05	0∘ ʊ	2702 (110
	3205 Sep 25 14:26	0°M		evening max el	3206 Sep 04 06:49	9° £ 54'46	27°26'19
retrograde	3205 Oct 05 03:47	4°ML01'49		retrograde	3206 Sep 17 22:26	17° £ 11'21	
evening set	3205 Oct 12 01:15	1°M19'34		evening set	3206 Sep 25 02:39	14° Ω 34'26	0.63518 AU
min. Earth dist.	3205 Oct 13 13:59 3205 Oct 15 22:01	30°R ≏ 27° ≏ 36'18	0.65091 AU	min. Earth dist. inferior conj	3206 Sep 28 18:28 3206 Oct 01 09:29	11° £ 24'10 8° £ 45'23	
inferior conj	3205 Oct 13 22:01 3205 Oct 18 00:43	27 ≗ 30 18 25° £ 14'38		minimum elong	3206 Oct 01 09.29 3206 Oct 01 14:41	8° £ 43 23	
minimum elong	3205 Oct 18 00:43 3205 Oct 18 04:28	25° £ 04'07		morning rise	3206 Oct 01 14.41 3206 Oct 08 04:00	3° £ 28′23	J 1J JL
morning rise	3205 Oct 18 04.28 3205 Oct 24 08:37	23 = 04 07 19° ⊆ 41'03	2 1730	direct	3206 Oct 10 15:29	2° £ 58'39	
asc. node	3205 Oct 24 08:57 3205 Oct 24 20:57	19° £ 27'49		asc. node	3206 Oct 10 13:29 3206 Oct 11 18:01	2 = 3639 3° ⊆ 04'41	
direct	3205 Oct 27 20:37 3205 Oct 27 01:04	19° ⊆ 02'33		morning max el	3206 Oct 17 18:01 3206 Oct 17 05:28	6° £ 24'02	17°51'27
		3233					/

morning set	3206 Nov 01 16:42 3206 Nov 02 18:13	0°M 1°M50'55		morning set	3207 Oct 16 16:52 3207 Oct 25 01:06	14° £ 58'35 0° M	
	222627 14 22 55	220M 20114	000010.5		2225	207 10116	0050100
superior conj	3206 Nov 14 23:55	22°M39'14	0°22'25	superior conj	3207 Oct 27 05:21	3°M48'16	0°59'20
minimum elong	3206 Nov 15 02:14	22°M48'49	0°22'06	minimum elong	3207 Oct 27 09:38	4°M06'52	0°58'47
desc. node	3206 Nov 18 06:35	28°M00'54		max. Earth dist.	3207 Nov 03 16:27	16°M24'21	1.42645 AU
max. Earth dist.	3206 Nov 19 12:03	0° ⊀ 2° ⊀ 36′20	1.44136 AU	desc. node	3207 Nov 05 03:36	18°M48'06 26°M58'39	
evening rise	3206 Nov 21 03:00 3206 Nov 30 15:40	2 x · 30 20 17° x 32'53	1.44130 AU	evening rise	3207 Nov 10 06:10 3207 Nov 12 04:28	20 IIL3839 0° ⊼ ¹	
evening rise	3206 Nov 30 13.40 3206 Dec 08 20:14	17 x・32 33			3207 Nov 12 04.28 3207 Dec 02 16:10	0°る	
avaning may al	3206 Dec 08 20.14 3206 Dec 29 13:14	0 3 28° る 13'16	20°47'32	evening max el	3207 Dec 02 16:10 3207 Dec 12 08:48	11°る45'32	22°01'14
evening max el	3206 Dec 29 13:14 3206 Dec 31 10:03	28 ⊘ 13 10	20 47 32	•	3207 Dec 12 08.48 3207 Dec 21 16:57	17° る 19'04	22 01 14
ratrograda	3200 Dec 31 10.03 3207 Jan 06 20:10	0 ∞ 3°≈07'15		retrograde asc. node	3207 Dec 21 10:37 3207 Dec 25 14:19	17 31904 15°る57'27	
retrograde asc. node	3207 Jan 07 17:17	3°≈02'58		evening set	3207 Dec 25 14.19 3207 Dec 26 03:21	15° る 32'39	
	3207 Jan 07 17:17 3207 Jan 10 19:40	3 ≈02 38 1°≈36'41		inferior conj	3207 Dec 20 03:21 3207 Dec 31 11:43	9° る 13'23	1°53'57
evening set	3207 Jan 10 19:40 3207 Jan 12 13:43	1 ≈3041 30°Rる		minimum elong	3207 Dec 31 11.43 3207 Dec 31 09:29	9° る 21'07	1°53'09
inferior conj	3207 Jan 16 04:28	25°る26'07	2°34'15	min. Earth dist.	3207 Dec 31 12:14	9° る 11'32	0.67892 AU
minimum elong	3207 Jan 16 01:55	25° る 34'50	2°33'30	morning rise	3208 Jan 05 15:28	3°る02'08	0.07672 AC
min. Earth dist.	3207 Jan 16 16:41	23 3 3430 24° 3 44'11	0.67532 AU	direct	3208 Jan 10 11:22	0°る59'37	
morning rise	3207 Jan 21 08:01	19°る13'04	0.07332 AO	morning max el	3208 Jan 20 04:25	6°₹43'48	22°35'31
direct	3207 Jan 26 18:55	16° 石 48'36		desc. node	3208 Feb 01 02:51	21°る25'08	22 33 31
morning max el	3207 Feb 06 18:04	23°る20'53	24°04'18	desc. Hode	3208 Feb 07 03:39	0°≈	
morning max ci	3207 Feb 10 18:04 3207 Feb 12 15:21	23 ⊙ 2033	24 04 18	morning set	3208 Feb 23 03:23	0 ∞ 24°≈46'18	
desc. node	3207 Feb 12 15:21 3207 Feb 14 05:49	0 ∞ 2°≈00'23		morning set	3208 Feb 26 07:01	0° ₩	
desc. node	3207 Mar 05 14:10	0° ∀		max. Earth dist.	3208 Feb 28 01:01	2° ¥ 57'29	1.40364 AU
morning set	3207 Mar 14 10:56	14°) 41'33		max. Lartii dist.	3200100 20 01.01	2 (3/2)	1.40304 AC
max. Earth dist.	3207 Mar 14 10:30 3207 Mar 18 05:04	21° H 17'25	1.38196 AU	superior conj	3208 Mar 06 19:54	16° ¥ 37'36	-1°57'30
max. Latin dist.	3207 Mar 18 03:04 3207 Mar 22 23:24	0° Υ	1.30170 AC	minimum elong	3208 Mar 06 23:45	16° ¥ 55'02	
	3207 Wai 22 23.24	0 1		minimum ciong	3208 Mar 14 01:11	0° Υ	1 37 13
superior conj	3207 Mar 25 08:55	4° Y 31'24	-1°37'50	evening rise	3208 Mar 16 19:25	5° Υ 13'02	
minimum elong	3207 Mar 25 13:28		1°37'26	asc. node	3208 Mar 10 13:23 3208 Mar 22 13:38	15° Υ 54'51	
evening rise	3207 Apr 03 06:36	21°Υ54'06	1 37 20	asc. Houc	3208 Mar 31 21:21	0° 8	
asc. node	3207 Apr 05 06:36	26° Υ 37'06		evening max el	3208 Apr 01 23:53	1° 8 08'57	18°23'08
use. Hode	3207 Apr 07 11:04	0°8		retrograde	3208 Apr 09 08:34	4° 8 47'49	10 25 00
evening max el	3207 Apr 07 11:04 3207 Apr 19 18:43	18° 8 36'14	18°58'13	evening set	3208 Apr 11 18:04	4° 8 25'41	
retrograde	3207 Apr 28 07:20	22° 8 45'30	10 30 13	evening set	3208 Apr 18 20:40	4 3 25 41	
evening set	3207 Apr 30 10:32	22° 8 30'56		inferior conj	3208 Apr 19 01:25	29° Υ ′50'13	2°35'09
inferior conj	3207 May 08 13:06	18° 8 15'10	1°18'53	minimum elong	3208 Apr 19 05:10	29° Υ 42'27	2°34'13
minimum elong	3207 May 08 15:00 3207 May 08 16:00	18° 8 10'03	1°17'55	min. Earth dist.	3208 Apr 22 12:02	27° Y '01'03	0.58751 AU
min. Earth dist.	3207 May 11 15:52	_	0.56798 AU	morning rise	3208 Apr 26 13:21	24° Υ 18'04	0.00701110
desc. node	3207 May 13 05:00	15° 8 04'17	0.00770110	desc. node	3208 Apr 29 02:02	23° Y 13'07	
morning rise	3207 May 16 18:19	13° 8 13'47		direct	3208 May 02 16:35	22° Υ '38'31	
direct	3207 May 21 23:30	12° 8 09'10			3208 May 16 16:26	0°8	
morning max el	3207 Jun 05 06:45	19° 8 33'01	25°51'34	morning max el	3208 May 17 01:59	0° 8 23'10	27°05'06
5 5	3207 Jun 14 03:30	0°Щ		. 8	3208 Jun 07 03:13	0°II	
	3207 Jul 01 10:30	0°ಅ		morning set	3208 Jun 16 10:55	18° Ⅱ 09'23	
asc. node	3207 Jul 02 15:51	2° © 32'54		asc. node	3208 Jun 18 12:54	22° Ⅱ 34'29	
morning set	3207 Jul 03 01:30	3° 5 23'47			3208 Jun 21 22:48	0° ©	
-							
superior conj	3207 Jul 10 00:37	18° © 31'29	1°10'37	superior conj	3208 Jun 23 12:26	3°527'11	0°50'21
minimum elong	3207 Jul 09 22:17	18° © 18'35	1°10'15	minimum elong	3208 Jun 23 10:27	3°516'17	0°49'58
max. Earth dist.	3207 Jul 10 19:45	20° © 16'31	1.32380 AU	max. Earth dist.	3208 Jun 23 07:30	2° © 59'58	1.32090 AU
	3207 Jul 15 07:36	$\mathfrak{O}^{\circ}\mathfrak{O}$		evening rise	3208 Jun 30 08:56	18° © 21'32	
evening rise	3207 Jul 17 00:56	3° Ω 37'06			3208 Jul 06 03:00	$0^{\circ}\Omega$	
	3207 Jul 31 06:45	0° m			3208 Jul 25 11:29	0° m)	
desc. node	3207 Aug 09 04:17	12° m 59'26		desc. node	3208 Jul 26 01:18	0° Mp 39'16	
evening max el	3207 Aug 17 13:57	22° Mp 30'21	27°12'05	evening max el	3208 Jul 29 14:41	4° m 21'00	26°24'43
retrograde	3207 Aug 31 10:10	29° m 44'07		retrograde	3208 Aug 12 14:05	11° m)31'57	
evening set	3207 Sep 07 13:24	27° m 24'42		evening set	3208 Aug 19 04:51	9° m 43'01	
min. Earth dist.	3207 Sep 11 04:13	24° Mp 39'23	0.61640 AU	min. Earth dist.	3208 Aug 23 03:55	7° m 07'39	0.59581 AU
inferior conj	3207 Sep 14 06:02	21° m 54'47	-4°09'00	inferior conj	3208 Aug 26 10:54	4° m 33'59	-4°49'53
minimum elong	3207 Sep 14 11:44	21°M/42'02	4°07'38	minimum elong	3208 Aug 26 15:06	4° m 25'45	4°49'19
morning rise	3207 Sep 21 11:45	16° m 57'55		morning rise	3208 Sep 03 03:29	29° Ω 59'38	
direct	3207 Sep 23 21:01	16°M 33'57			3208 Sep 03 02:58	30° R Ω	
asc. node	3207 Sep 28 15:04	18°Mp 12'38		direct	3208 Sep 05 13:24	29° Ω 38'58	
morning max el	3207 Sep 30 20:27	20° Mp 04'10	17°55'36		3208 Sep 07 22:21	0° ™	
	3207 Oct 08 05:10	0∘ ⊽		morning max el	3208 Sep 13 06:43	3° Mg 23'31	18°19'19

	3210 Jul 15 15:08	30° ℝ ∽		evening set	3211 Jun 19 23:40	12° 5 24'36	
min. Earth dist.	3210 Jul 17 07:47	29° © 02'14	0.55935 AU	inferior conj	3211 Jun 19 23:40 3211 Jun 29 08:16	8°\$20'02	-3°28'54
inferior conj	3210 Jul 19 10:28	27°50217		minimum elong	3211 Jun 29 00:01	8°931'35	
minimum elong	3210 Jul 19 04:35	27° 9 55'23		min. Earth dist.	3211 Jun 28 18:33		0.54990 AU
morning rise	3210 Jul 27 21:18	23° © 51'18	7 71 17	morning rise	3211 Jul 08 01:58	4°928'13	0.54770710
direct	3210 Jul 30 16:34	23°931'46		direct	3211 Jul 11 05:20	4°906'24	
morning max el	3210 Aug 10 00:20	28° © 19'09	20°10'11	morning max el	3211 Jul 23 04:04	9°541'42	21°36'32
morning max or	3210 Aug 11 16:35	0°Ω	20 10 11	asc. node	3211 Aug 06 03:15	29° 5 21'16	21 3032
asc. node	3210 Aug 19 06:11	10° Ω 26'25		use. Hous	3211 Aug 06 11:38	0°Ω	
morning set	3210 Aug 28 08:22	27° Ω 35'39		morning set	3211 Aug 12 17:20	12° Ω 22'34	
morning sec	3210 Aug 29 12:39	0°m)		morning sec	3211 11ug 12 17.20	12 002231	
	0-101-108	- 4		superior conj	3211 Aug 20 00:09	27° Ω 41'28	1°42'34
superior conj	3210 Sep 05 00:54	13° mp 18'03	1°44'45	minimum elong	3211 Aug 19 23:06	27° Ω 35'55	1°42'32
minimum elong	3210 Sep 05 01:13	13° m) 19'41	1°44'45		3211 Aug 21 02:49	0° m/	
max. Earth dist.	3210 Sep 10 10:15	23° m 53'00	1.36685 AU	max. Earth dist.	3211 Aug 23 22:35	5° m 46'14	1.34965 AU
	3210 Sep 13 16:38	0∘ <u>⊽</u>		evening rise	3211 Aug 28 07:20	14° m) 20'48	
evening rise	3210 Sep 14 07:05	1° ഫ 06'07		C	3211 Sep 05 23:36	0 o $\overline{\mathbf{v}}$	
desc. node	3210 Sep 25 18:38	20° £ 37'38		desc. node	3211 Sep 12 15:39	10° ≏ 47'18	
	3210 Oct 01 22:20	0°M.			3211 Sep 26 16:29	0°M	
evening max el	3210 Oct 20 01:07	22°M41'53	25°50'39	evening max el	3211 Oct 02 13:32	6°M19'39	26°46'34
retrograde	3210 Nov 01 10:38	29°M45'47		retrograde	3211 Oct 15 14:48	13°M35'00	
evening set	3210 Nov 07 13:20	27°M13'37		evening set	3211 Oct 22 06:24	10°M53'59	
min. Earth dist.	3210 Nov 11 20:40	22°M34'00	0.66877 AU	min. Earth dist.	3211 Oct 26 06:44	6°M50'36	0.65844 AU
inferior conj	3210 Nov 13 04:37	20°M53'12	-0°41'52	inferior conj	3211 Oct 28 02:29	4°M42'11	-1°41'18
minimum elong	3210 Nov 13 05:43	20°M49'43	0°41'24	minimum elong	3211 Oct 28 05:16	4°M34'01	1°40'10
asc. node	3210 Nov 15 05:25	18°M24'03		-	3211 Nov 01 16:30	30° ₹ Ω	
morning rise	3210 Nov 18 22:28	15°M00'23		asc. node	3211 Nov 02 02:28	29° ≏ 41'34	
direct	3210 Nov 22 04:00	14°M00'24		morning rise	3211 Nov 03 04:51	29° ♀ 00'57	
morning max el	3210 Nov 29 02:15	17° M 51'42	19°03'02	direct	3211 Nov 06 01:23	28° ≏ 15'46	
	3210 Dec 08 10:48	0° ∡ ¹			3211 Nov 10 12:52	0°M	
morning set	3210 Dec 21 17:07	20° ∡ ¹23'49		morning max el	3211 Nov 12 15:06	1°ML50'01	18°21'49
desc. node	3210 Dec 22 17:56	22° ₹ 00'42		_	3211 Dec 01 17:46	0° ∡ ¹	
	3210 Dec 27 20:41	8°0		morning set	3211 Dec 02 01:25	0° ∡ ³30'55	
max. Earth dist.	3211 Jan 05 04:19	13° る 02'20	1.44960 AU	desc. node	3211 Dec 09 14:57	12° ∡ ³39′07	
		_					
superior conj	3211 Jan 07 08:51	16° ろ 29'28		superior conj	3211 Dec 17 10:45	25° ₹ '01'39	
minimum elong	3211 Jan 06 23:48	15° る 53'44	1°32'53	minimum elong	3211 Dec 17 04:17		0°50'34
	3211 Jan 15 20:12	0° ≈		max. Earth dist.	3211 Dec 18 23:28	27° ∡ ¹25'48	1.45211 AU
evening rise	3211 Jan 22 06:54	10°≈27'52			3211 Dec 20 14:47	0° ろ	
_	3211 Feb 03 08:58	0° ∀		evening rise	3212 Jan 02 15:00	20° る 23'29	
asc. node	3211 Feb 11 04:42	10°) (30′12			3212 Jan 08 17:52	0° ≈	
evening max el	3211 Feb 11 11:00	10°) (46′25	18°34'17	greatest brilliancy	3212 Jan 13 06:26	7°≈02'19	-0.8m
retrograde	3211 Feb 18 00:42	14°) €23'50		evening max el	3212 Jan 25 19:58	24°≈15'33	19°14'09
evening set	3211 Feb 21 03:48	13°) €28'48		asc. node	3212 Jan 29 01:46	27°≈00'12	
inferior conj	3211 Feb 26 22:29		3°36'42	retrograde	3212 Feb 01 20:46	28°≈16'40	
minimum elong	3211 Feb 26 21:31	7°) € 57'12	3°36'37	evening set	3212 Feb 05 06:33	27°≈08'52	
min. Earth dist.	3211 Feb 28 23:08	5°) €29'29	0.64785 AU	inferior conj	3212 Feb 10 19:37	21°≈18'14	3°20'55
morning rise	3211 Mar 04 14:44	1°) (44'19		minimum elong	3212 Feb 10 17:36	21°≈24'42	3°20'34
r.	3211 Mar 07 03:02	30°R≈		min. Earth dist.	3212 Feb 12 05:01	19°≈30'56	0.66175 AU
direct	3211 Mar 11 08:53	28°≈53'51		morning rise	3212 Feb 16 04:22	15°≈05'14	
daga J-	3211 Mar 15 22:57	0° ∺ 3° ∺ 01'45		direct	3212 Feb 22 12:45	12°≈17'02	2601 4107
desc. node	3211 Mar 20 17:10		2701 4157	morning max el	3212 Mar 06 05:25	19°≈48'46	26°14'07
morning max el	3211 Mar 24 19:31	6°) 44′23	2/-14/5/	desc. node	3212 Mar 06 14:12	20°≈11'04	
morning ast	3211 Apr 11 16:45	0° Ƴ 0° ႘ 32'04			3212 Mar 14 22:44	0° ℋ 0° Ƴ	
morning set	3211 Apr 29 06:38	0°8		morning got	3212 Apr 03 18:55	0 γ 13° Υ 31'52	
may Earth dist	3211 Apr 29 00:02		1 22709 AII	morning set	3212 Apr 11 08:44	13 γ 31 32 21° Υ 10'41	1 251/1 ATT
max. Earth dist.	3211 May 03 22:24	9° 8 50'31	1.33708 AU	max. Earth dist.	3212 Apr 15 08:54	0° 8	1.35141 AU
superior conj	3211 May 07 11:39	17° 8 14'14	-0°27'45		3212 Apr 19 19:07	0.0	
minimum elong		17° 8 21'44		superior coni	3212 Apr 20 00-24	1° 8 08'28	-0°56'25
asc. node	3211 May 10, 03:59	22° 8 55'42	0 4141	superior conj minimum elong	3212 Apr 20 08:34	1° 6 08'28	
asc. nout	3211 May 10 03:59	0° Ⅱ		asc. node	3212 Apr 20 11:31	12° 8 54'16	0 33 34
evening rise	3211 May 13 11:41 3211 May 14 18:35	0°П 2°П42'54		asc. node evening rise	3212 Apr 26 01:02 3212 Apr 28 02:40	12° 6 34°16	
evening rise		2° щ 42′34 0° ©		evening rise	3212 Apr 28 02:40 3212 May 04 14:48	0° Ⅱ	
					3212 IVIAV U4 14:48	υщ	
evening may al	3211 May 30 01:45		21°58'55	evening may al	•		2003/117
evening max el	3211 Jun 04 13:56	6°\$25'03	21°58'55	evening max el	3212 May 16 16:02	17° Ⅱ 20'44	20°34'17
evening max el desc. node retrograde	•		21°58'55	evening max el retrograde evening set	•		20°34'17

max. Earth dist.

3217 Jan 14 19:29

22°る14'37 1.44476 AU

superior conj	3217 Dec 29 03:54	7° る 27'22	-1°17'17		3218 Nov 28 06:47	0° ∡	
minimum elong	3217 Dec 28 19:07	6° る 52'52	1°16'18	desc. node	3218 Dec 03 17:24	8° ∡ °47'42	
	3218 Jan 12 09:30	0° ≈			221070 00 07 57	1.60 300104	0020150
evening rise	3218 Jan 13 17:28	2°≈08'04	0.0	superior conj	3218 Dec 08 07:57	16° ₹ 08'04	
greatest brilliancy	3218 Jan 21 02:12 3218 Jan 31 19:19	13°≈57'18 0°) €	-0.9m	minimum elong max. Earth dist.	3218 Dec 08 04:02 3218 Dec 11 08:06	15° ₹ 52'31 20° ₹ 52'44	0°30'25 1.45095 AU
evening max el	3218 Jan 31 19:19 3218 Feb 04 02:21	0°π 3° ∺ 51'10	18°49'19	max. Earth dist.	3218 Dec 11 08:06 3218 Dec 17 03:52	20° メ ・32'44	1.45095 AU
asc. node	3218 Feb 04 02:21 3218 Feb 05 07:15	5° ₩ 00'06	10 49 19	evening rise	3218 Dec 17 03:32 3218 Dec 24 16:36	11° 石 42'56	
retrograde	3218 Feb 10 19:55	7° ∺ 37'21		evening rise	3219 Jan 05 13:27	0°≈	
evening set	3218 Feb 14 01:43	6°) €37'06		greatest brilliancy	3219 Jan 06 08:06	1°≈10'23	-0.7m
inferior conj	3218 Feb 19 17:42	0°) 55'49	3°31'32	evening max el	3219 Jan 18 09:31	17° ≈ 21'14	19°36'07
minimum elong	3218 Feb 19 16:13	1°) 00′22	3°31'22	asc. node	3219 Jan 23 04:18	21° ≈ 00'07	
	3218 Feb 20 11:43	30° R ≈		retrograde	3219 Jan 25 16:57	21° ≈ 34'40	
min. Earth dist.	3218 Feb 21 11:52	28° ≈ 45'50	0.65424 AU	evening set	3219 Jan 29 06:06	20° ≈ 20'58	
morning rise	3218 Feb 25 06:19	24° ≈ 44'17		inferior conj	3219 Feb 03 17:30	14° ≈ 24'24	3°10'39
direct	3218 Mar 03 21:02	21°≈52'55		minimum elong	3219 Feb 03 15:13	14° ≈ 31'55	3°10'12
desc. node	3218 Mar 14 19:35	27°≈30'23	2 (2 5 2 1 2 2 2	min. Earth dist.	3219 Feb 04 20:51	12°≈54'35	0.66641 AU
morning max el	3218 Mar 17 00:42	29°≈37'25	26°52'00	morning rise	3219 Feb 09 00:08	8°≈11'10	
	3218 Mar 17 09:36 3218 Apr 08 12:17	0° ℋ 0° Ƴ		direct morning max el	3219 Feb 15 03:20 3219 Feb 27 09:56	5°≈27'19 12°≈45'48	25°42'01
morning set	3218 Apr 08 12.17 3218 Apr 21 20:30	23° Υ 31'15		desc. node	3219 Feb 27 09.36 3219 Mar 01 16:36	12 ≈43 48 15°≈10'29	23 42 01
morning set	3218 Apr 25 04:13	0° 8		dese. Hode	3219 Mar 13 07:44	0° \	
max. Earth dist.	3218 Apr 26 05:03	2° 8 04'01	1.34257 AU		3219 Apr 01 05:31	0°Υ	
man. Barur dibu	521011p1 20 00.05	2 00.01	1.5 .25 / 110	morning set	3219 Apr 04 15:43	6°Υ08'59	
superior conj	3218 Apr 30 08:42	10° 8 34'11	-0°39'55	max. Earth dist.	3219 Apr 08 10:32	13° Y 13'05	1.35881 AU
minimum elong	3218 Apr 30 10:46	10° 8 44'59	0°39'30		•		
asc. node	3218 May 04 06:36	18° 8 47'29		superior conj	3219 Apr 14 01:46	24° Y 15'21	-1°08'18
evening rise	3218 May 07 19:50	26° 8 15'32		minimum elong	3219 Apr 14 05:19	24° Y 33'10	1°07'42
	3218 May 09 15:19	$\Pi^{\circ}0$			3219 Apr 16 21:49	9° 8	
evening max el	3218 May 27 14:21	28° Ⅱ 21'19	21°21'07	asc. node	3219 Apr 21 03:37	8° 8 41'47	
	3218 May 29 10:03	0 \circ \odot		evening rise	3219 Apr 22 01:58	10° 8 35'50	
retrograde	3218 Jun 08 16:14	4°9516'44			3219 May 02 11:53	0°I	
desc. node	3218 Jun 10 18:49	4°906'31		evening max el	3219 May 09 21:41	9° Ⅱ 33'56	20°03'33
evening set	3218 Jun 11 00:24	4°904'10	2044142	retrograde	3219 May 20 06:48	14° Ⅲ 36'36 14° Ⅲ 26'21	
inferior conj	3218 Jun 20 09:48	0°©04'57 0°©15'12	-2°44'42 2°42'19	evening set desc. node	3219 May 22 06:24 3219 May 28 15:51	14° Щ 26'21 11° Щ 57'48	
minimum elong min. Earth dist.	3218 Jun 20 02:30 3218 Jun 20 14:30	0 €513 12 29° II 58'22	0.54865 AU	inferior conj	3219 May 28 13.31 3219 May 31 06:24	11 Д 3/48 10° Д 26'45	-0°46'05
mm. Earth dist.	3218 Jun 20 14:30 3218 Jun 20 13:21	29 H 36 22 30°R I I	0.54805 AU	minimum elong	3219 May 31 00:24 3219 May 31 04:16	10° I I20⁴3	0°45'18
morning rise	3218 Jun 29 05:09	26° I I08'03		min. Earth dist.	3219 Jun 02 03:14	9° П 19'39	0.55264 AU
direct	3218 Jul 02 13:38	25° Ⅱ 43'39		morning rise	3219 Jun 09 00:24	6° Ⅱ 05'39	0.33201710
	3218 Jul 13 04:34	0ಂತಾ		direct	3219 Jun 13 02:24	5° Ⅱ 29'18	
morning max el	3218 Jul 15 03:32	1° 5 641'19	22°17'46	morning max el	3219 Jun 26 19:14	12° Ⅱ 13'50	24°00'22
asc. node	3218 Jul 31 05:50	24°953'30		-	3219 Jul 10 07:34	0°€	
	3218 Aug 02 20:29	$0^{\circ}\Omega$		asc. node	3219 Jul 18 02:53	14° © 25'26	
morning set	3218 Aug 05 19:12	6° Ω 03'01		morning set	3219 Jul 21 06:52	20° © 57'55	
					3219 Jul 25 11:49	0 ° Ω	
superior conj	3218 Aug 12 23:14	21° Ω 16′02					
minimum elong	3218 Aug 12 21:43			superior conj	3219 Jul 28 06:48	6° Ω 03′25	
max. Earth dist.	3218 Aug 16 07:11		1.34357 AU	minimum elong	3219 Jul 28 04:37	5° £ 51'36	
	3218 Aug 17 04:01	0°Щ 7°Щ 22120		max. Earth dist.	3219 Jul 30 08:18	10° Ω 29'48	1.33200 AU
evening rise	3218 Aug 20 22:46	7° ₱32'20 0° <u>₽</u>		evening rise	3219 Aug 04 16:39	21° Ω 38'05 0° m	
desc. node	3218 Sep 02 13:22 3218 Sep 06 18:08	0 ഫ 6° Ω 34'52		desc. node	3219 Aug 08 23:12 3219 Aug 24 15:10	26° Mp 05'54	
evening max el	3218 Sep 24 19:38	0 = 3432 29° £ 24'46	27°03'55	desc. Hode	3219 Aug 24 13:10 3219 Aug 27 10:16	ე∘ ი	
evening max er	3218 Sep 25 10:36	0° ™	27 03 33	evening max el	3219 Sep 07 07:02	0 — 12° ≏ 39'22	27°25'37
retrograde	3218 Oct 08 02:03	6°M41'45		retrograde	3219 Sep 07 07:02 3219 Sep 20 21:40	19° ⊆ 56'28	,
evening set	3218 Oct 14 22:07	3°M59'38		evening set	3219 Sep 28 01:23	17° Ω 17'54	
Č	3218 Oct 18 23:52	30° ₹ Ω		min. Earth dist.	3219 Oct 01 17:41	14° ≏ 03'16	0.63772 AU
min. Earth dist.	3218 Oct 18 19:51		0.65300 AU	inferior conj	3219 Oct 04 06:59	11° ≏ 26'19	-3°06'31
inferior conj	3218 Oct 20 20:41	27° ≙ 52'52		minimum elong	3219 Oct 04 12:00	11° ≏ 13'26	3°04'49
minimum elong	3218 Oct 21 00:11	27° ≏ 42'56	2°05'32	morning rise	3219 Oct 10 23:53	6° ≏ 06'49	
morning rise	3218 Oct 27 03:07	22° ♀ 17'07		direct	3219 Oct 13 11:57	5° ≏ 36'00	
asc. node	3218 Oct 27 05:01	22° ≙ 14'50		asc. node	3219 Oct 14 02:03	5° ≏ 37'44	
direct	3218 Oct 29 20:34	21° △ 36'57		morning max el	3219 Oct 20 01:09	9° Ω 01'15	17°52'27
morning max el	3218 Nov 05 08:41	25° £ 06'52	18°09'16		3219 Nov 03 01:27	0°M	
	3218 Nov 09 10:33	0°M		morning set	3219 Nov 05 18:02	4°M38'33	
morning set	3218 Nov 23 18:16	22°M35'46					

aumariar aani	3219 Nov 18 06:42	25°M47'06	0°15'55		3220 Oct 08 08:45	0∘ ত	
superior conj		25°M54'07	0°15'40	marning aat	3220 Oct 08 08.43 3220 Oct 18 14:10	0 <u>≈</u> 17° ≏ 39'06	
minimum elong	3219 Nov 18 08:25 3219 Nov 18 06:03	25°M44'28	0 13 40	morning set		0°M	
behind sun begin behind sun end	3219 Nov 18 10:46	25 11644 28 26° M 03'46			3220 Oct 25 11:18	O IIG	
desc. node	3219 Nov 18 10.46 3219 Nov 20 14:26	20 11603 40 29°11634'05		aumariar aami	2220 Oct. 20, 09:10	6°M44'46	0°54'28
desc. node	3219 Nov 20 14.20 3219 Nov 20 20:50	29 1163403 0° √ 1		superior conj minimum elong	3220 Oct 29 08:10 3220 Oct 29 12:21	7°M02'49	0°53'55
may Earth dist		0° × ¹ 5° × ¹11'34	1 44210 ATT	max. Earth dist.		19°M04'04	1.42898 AU
max. Earth dist. evening rise	3219 Nov 24 02:26 3219 Dec 04 02:46	3 x ·11 34 20° x ⁷ 51'48	1.44310 AU	desc. node	3220 Nov 05 16:26	20°M21'40	1.42090 AU
evening rise		20 x・31 48			3220 Nov 06 11:28	20 IIC21 40 0° √ 12'27	
	3219 Dec 10 02:28			evening rise	3220 Nov 12 15:28		
	3219 Dec 31 15:31	0°≈ 0°≈52'40	20027110		3220 Nov 12 12:17	0° ₹	
evening max el	3220 Jan 01 11:29		20°37'18		3220 Dec 02 17:30	0°る	21040142
retrograde	3220 Jan 09 15:01	5°≈41'10		evening max el	3220 Dec 14 07:49	14°る24'52	21°49'42
asc. node	3220 Jan 10 01:19	5°≈40'09		retrograde	3220 Dec 23 12:08	19°る52'40	
evening set	3220 Jan 13 13:02	4°≈12'53		asc. node	3220 Dec 26 22:20	18° る 49'01	
	3220 Jan 17 11:30	30°Rる		evening set	3220 Dec 27 20:44	18°る08'46	
inferior conj	3220 Jan 18 22:02	28° ⋜ 03'47	2°39'39	inferior conj	3221 Jan 02 05:04	11°る50'30	2°00'30
minimum elong	3220 Jan 18 19:29	28° ろ 12'28	2°38'57	minimum elong	3221 Jan 02 02:46	11° る 58'31	1°59'43
min. Earth dist.	3220 Jan 19 12:06	27° る 15'42	0.67448 AU	min. Earth dist.	3221 Jan 02 07:18	11° る 42'47	0.67866 AU
morning rise	3220 Jan 24 01:46	21° る 50'28		morning rise	3221 Jan 07 08:38	5° る 38'45	
direct	3220 Jan 29 14:49	19° る 23'07		direct	3221 Jan 12 06:45	3° る 32'45	
morning max el	3220 Feb 09 18:28	26° る 02'24	24°17'26	morning max el	3221 Jan 22 04:18	9° る 24'27	22°48'27
	3220 Feb 13 09:49	0° ≈		desc. node	3221 Feb 02 10:40	23° る 08'46	
desc. node	3220 Feb 16 13:38	3° ≈ 48'55			3221 Feb 07 07:56	0° ≈	
	3220 Mar 05 21:22	0° ∀		morning set	3221 Feb 25 11:33	28° ≈ 01'53	
morning set	3220 Mar 16 14:47	17°) (44′23			3221 Feb 26 16:02	0°) €	
max. Earth dist.	3220 Mar 20 07:32	24° ℋ 17'20	1.37877 AU	max. Earth dist.	3221 Mar 02 02:47	5°) 49′32	1.40044 AU
	3220 Mar 23 10:27	0 ° $\mathbf{\gamma}$					
				superior conj	3221 Mar 09 21:06	19° ∺ 33'10	
superior conj	3220 Mar 27 07:20	7° Ƴ 18'33	-1°34'25	minimum elong	3221 Mar 10 01:12	19° ∺ 51'53	1°54'49
minimum elong	3220 Mar 27 11:50	7° Ƴ 40'10	1°33'51		3221 Mar 15 11:58	0 ° Υ	
evening rise	3220 Apr 05 01:48	24° Ƴ 32'14		evening rise	3221 Mar 19 16:19	7° Ƴ 56'40	
asc. node	3220 Apr 07 00:38	28° Ƴ 22'17		asc. node	3221 Mar 24 21:40	17° Ƴ 43'32	
	3220 Apr 07 20:46	$_{0\circ}$ 8			3221 Apr 01 11:44	0°8	
evening max el	3220 Apr 21 16:36	21° 8 26'48	19°05'13	evening max el	3221 Apr 04 20:43	3° 8 55'17	18°27'07
retrograde	3220 Apr 30 10:31	25° 8 42'11		retrograde	3221 Apr 12 08:48	7° 8 37'30	
evening set	3220 May 02 12:46	25° 8 28'33		evening set	3221 Apr 14 17:21	7° 8 16'41	
inferior conj	3220 May 10 18:20	21° 8 15'31	1°04'26	inferior conj	3221 Apr 22 03:25	2° 8 44'30	2°25'43
minimum elong	3220 May 10 20:49	21° 8 11'15	1°03'36	minimum elong	3221 Apr 22 07:13	2° 8 36'49	2°24'44
min. Earth dist.	3220 May 13 18:31	19° 8 11'58	0.56541 AU	min. Earth dist.	3221 Apr 25 13:57	29° Y ′59'27	0.58434 AU
desc. node	3220 May 14 12:51	18° 8 42'12			3221 Apr 25 13:40	30° ŖƳ	
morning rise	3220 May 19 01:44	16° 8 19'11		morning rise	3221 Apr 29 18:03	27° Y 16'20	
direct	3220 May 24 03:11	15° 8 19'07		desc. node	3221 May 01 09:51	26° Ƴ 31'50	
morning max el	3220 Jun 07 09:39	22° 8 39'20	25°38'25	direct	3221 May 05 18:29	25° Ƴ 42'04	
	3220 Jun 13 22:21	$\Pi^{\circ}0$			3221 May 16 06:25	0° ႘	
	3220 Jul 01 22:31	0 \circ \odot		morning max el	3221 May 20 03:56	3° 8 24'39	26°56'09
asc. node	3220 Jul 03 23:54	4°9514'27			3221 Jun 08 10:53	Π $^{\circ}0$	
morning set	3220 Jul 04 18:24	5° © 51'43		morning set	3221 Jun 19 04:13	20° Ⅲ 39′04	
				asc. node	3221 Jun 20 20:57	24° Ⅱ 15′01	
superior conj	3220 Jul 11 17:24	20° © 58'30	1°13'23		3221 Jun 23 12:38	0 \circ \odot	
minimum elong	3220 Jul 11 15:02	20° © 45'33	1°13'00				
max. Earth dist.	3220 Jul 12 16:15	23° © 03'43	1.32452 AU	superior conj	3221 Jun 26 05:12	5° © 54'59	0°53'41
	3220 Jul 15 21:03	$0^{\circ}\Omega$		minimum elong	3221 Jun 26 03:08	5° © 43'36	0°53'17
evening rise	3220 Jul 18 18:37	6° Ω 06'44		max. Earth dist.	3221 Jun 26 03:43	5° © 46'51	1.32103 AU
	3220 Jul 31 12:43	0° m		evening rise	3221 Jul 03 02:00	20°\$50'06	
desc. node	3220 Aug 10 12:11	14° m 55'23			3221 Jul 07 13:47	$0^{\circ}\Omega$	
evening max el	3220 Aug 19 14:49	25° m/20'53	27°16'21		3221 Jul 26 02:02	0° m	
-	3220 Aug 25 12:10	0∘ <u>⊽</u>		desc. node	3221 Jul 28 09:11	2° m/46'21	
retrograde	3220 Sep 02 10:38	2° £ 35'33		evening max el	3221 Aug 01 16:41	7° m)19'11	26°33'52
evening set	3220 Sep 09 14:36	0° £ 12'32		retrograde	3221 Aug 15 15:52	14° m 30'36	
Ç	3220 Sep 09 22:07	30°R, Mp		evening set	3221 Aug 22 09:14	12° m/36'31	
min. Earth dist.	3220 Sep 13 05:03	27° m 24'20	0.61931 AU	min. Earth dist.	3221 Aug 26 06:18	10° mp 00'38	0.59892 AU
inferior conj	3220 Sep 16 05:33	24° m/39'31		inferior conj	3221 Aug 29 12:59	7° m) 24'10	
minimum elong	3220 Sep 16 11:16	24° m/26'27	4°00'04	minimum elong	3221 Aug 29 17:35	7° m) 14'58	4°44'18
morning rise	3220 Sep 23 09:36	19° m 39'34		morning rise	3221 Sep 06 04:00	2° Mp 46'14	~
direct	3220 Sep 25 18:56	19° m) 14'59		direct	3221 Sep 08 13:34	2° m) 25'15	
asc. node	3220 Sep 29 23:05	20° m/32'37		morning max el	3221 Sep 16 03:44	6° Mp 07'11	18°14'25
morning max el	3220 Oct 02 16:34	22° m/ 44'03	17°53'47	asc. node	3221 Sep 16 03:44 3221 Sep 16 20:08	6° Mp 48'18	
	JU.JT	w 1103	,		222 24p 10 20.00	_w .010	

direct

3223 Aug 02 22:23

26°533'03

3222 Sep 07 13:00

0° m

	2222 4 11 14-10	0° N			2224 I1 25 05.55	12° © 43'32	21922140
	3223 Aug 11 14:18	1° Ω 13'49	19°59'04	morning max el	3224 Jul 25 05:55 3224 Aug 06 19:43	12 €943 32 0°Ω	21 22 40
morning max el asc. node	3223 Aug 13 00:24 3223 Aug 21 14:16	1 δι 13 49 12° Ω 20'07	19 39 04	asc. node	3224 Aug 06 19.43 3224 Aug 07 11:20	1° Ω 10'13	
morning set	3223 Aug 21 14.16 3223 Aug 31 01:53	0° m 05'13		morning set	3224 Aug 07 11:20 3224 Aug 14 10:22	1 δ <i>l</i> 10 13	
morning set	•	0° m)		morning set	3224 Aug 14 10.22	14 863030	
	3223 Aug 31 00:51	U III		superior conj	3224 Aug 21 18:21	0° m 12'27	10/2/21
superior conj	3223 Sep 07 20:15	15° m 52'14	1044'27	minimum elong	3224 Aug 21 17:28	0° mp 07'52	
minimum elong	3223 Sep 07 20:13 3223 Sep 07 20:49	15° Mp 55'05	1°44'27	minimum clong	3224 Aug 21 17:28 3224 Aug 21 15:57	0°Mp	1 43 19
max. Earth dist.	3223 Sep 07 20.49 3223 Sep 13 10:56		1.36963 AU	max. Earth dist.	3224 Aug 25 21:53	8° Mp 40'17	1.35192 AU
max. Lartii dist.	3223 Sep 15 10:30 3223 Sep 15 03:49	0° ⊡	1.50705710	evening rise	3224 Aug 30 04:28	17° m) 00'34	1.55172710
evening rise	3223 Sep 13 05:45 3223 Sep 17 06:31	ა _ 3° ჲ 52'19		evening rise	3224 Sep 06 08:35	0° ⊡	
desc. node	3223 Sep 17 00:31 3223 Sep 28 02:34	22° ₽ 15'23		desc. node	3224 Sep 13 23:35	° – 12° ≏ 28'11	
dese. Hode	3223 Oct 03 03:12	0°M		desc. Hode	3224 Sep 26 11:44	0°ML	
evening max el	3223 Oct 23 00:58	25°M20'25	25°40'51	evening max el	3224 Oct 04 13:18	8°ML59'10	26°39'29
e venning man er	3223 Oct 28 16:12	0°×7	20 .001	retrograde	3224 Oct 17 12:42	16°ML13'50	20 37 27
retrograde	3223 Nov 04 07:37	2° × ⁷ 21'55		evening set	3224 Oct 24 02:29	13°M233'38	
evening set	3223 Nov 10 08:19	29°M51'23		min. Earth dist.	3224 Oct 28 03:47	9°M24'52	0.66018 AU
e venning see	3223 Nov 10 04:12	30°RML		inferior conj	3224 Oct 29 21:46	7°M20'06	
min. Earth dist.	3223 Nov 14 16:41	25°ML06'35	0.67000 AU	minimum elong	3224 Oct 30 00:17	7°ML12'37	
inferior conj	3223 Nov 15 23:00	23°M30'05		asc. node	3224 Nov 03 10:31	2°MJ37'11	1 31 00
minimum elong	3223 Nov 15 23:52	23°M27'20		morning rise	3224 Nov 04 22:46	1°M37'00	
asc. node	3223 Nov 17 13:28	21°MJ30'11	0 32 .0	direct	3224 Nov 07 20:27	0°M49'56	
morning rise	3223 Nov 21 15:44	17°ML35'56		morning max el	3224 Nov 14 11:04	4°ML26'14	18°26'54
direct	3223 Nov 24 22:47	16°MJ33'30		morning max or	3224 Dec 02 01:25	0°×7	10 2001
morning max el	3223 Dec 01 22:56	20°M28'08	19°10'36	morning set	3224 Dec 04 07:07	3° х 35′35	
morning man vi	3223 Dec 09 13:16	0°×7	1, 1030	desc. node	3224 Dec 10 22:51	14° × 13'36	
morning set	3223 Dec 05 13:16	23° х 41'57		desc. Hode	3221 000 10 22.31	11 % 13 30	
desc. node	3223 Dec 25 01:48	23° × ⁷ 36'18		superior conj	3224 Dec 19 22:42	28° × ⁷ 25'11	-0°58'30
acco. noac	3223 Dec 29 04:21	0°궁		minimum elong	3224 Dec 19 15:26	27° × 56'41	
max. Earth dist.	3224 Jan 08 03:33	15° る 36'26	1.44859 AU	g	3224 Dec 20 22:52	0°ਰ	0 0, 30
max. Earth dist.	322 i 34ii 00 03.33	13 03020	1.11037110	max. Earth dist.	3224 Dec 20 22:09	29° х 57'13	1.45222 AU
superior conj	3224 Jan 10 20:35	19° る 53'24	-1°38'54	evening rise	3225 Jan 04 23:59	23° る 38'32	1.13222 110
minimum elong	3224 Jan 10 11:46	19° る 18'27		evening rise	3225 Jan 09 00:37	0°≈	
minimum viong	3224 Jan 17 04:27	0°≈	1 30 0 7	greatest brilliancy	3225 Jan 14 21:32	9°≈13'15	-0.8m
evening rise	3224 Jan 25 12:36	13°≈35'30		evening max el	3225 Jan 27 16:58	26°≈55'13	19°07'10
evening rise	3224 Feb 04 13:13	0° ∀		asc. node	3225 Jan 30 09:48	29°≈17'08	15 07 10
asc. node	3224 Feb 13 12:47	12°) 37'32		use. Houe	3225 Jan 31 13:10	0° ∀	
evening max el	3224 Feb 14 07:28	13° ¥ 26'53	18°29'47	retrograde	3225 Feb 03 15:44	0° ¥ 52'18	
retrograde	3224 Feb 20 20:14	17° \ 01'50	10 25 47	retrograde	3225 Feb 06 15:39	30°R≈	
evening set	3224 Feb 23 22:24	16° ∺ 08'40		evening set	3225 Feb 07 00:25	29°≈46'32	
inferior conj	3224 Feb 29 18:08	10°) (36'45	3°37'51	inferior conj	3225 Feb 12 14:09	23°≈58'15	3°24'01
minimum elong	3224 Feb 29 17:23	10° ₩ 38'58	3°37'49	minimum elong	3225 Feb 12 12:16	24°≈04'15	3°23'45
min. Earth dist.	3224 Mar 02 21:06	8° ₩ 06'55	0.64543 AU	min. Earth dist.	3225 Feb 14 01:49	22°≈04'48	0.65995 AU
morning rise	3224 Mar 06 11:48	4° ¥ 27'15	0.04343710	morning rise	3225 Feb 17 23:48	17°≈45'26	0.03773710
direct	3224 Mar 13 06:53	1°) € 37'35		direct	3225 Feb 24 09:55	14°≈55'59	
desc. node	3224 Mar 22 00:57	5° ¥ 15'44		desc. node	3225 Mar 08 22:00	22°≈12'24	
morning max el	3224 Mar 26 19:47	9° ₩ 30'07	27°21'46	morning max el	3225 Mar 09 05:45	22°≈31'47	26°24'33
morning max or	3224 Apr 11 20:51	0° Υ	27 21 10	morning max or	3225 Mar 15 19:48	0°) €	20 2133
	3224 Apr 29 11:26	0°8			3225 Apr 05 03:26	0° Υ	
morning set	3224 May 01 03:16	3° 8 12'43		morning set	3225 Apr 14 07:31	16° Ƴ 19'30	
max. Earth dist.	3224 May 05 21:35		1.33535 AU	max. Earth dist.	3225 Apr 18 09:44	24° Υ 11'28	1.34895 AU
man. Darut dist.	522 (May 00 21.50	12 0 ., 20	1.55656110	man. Bartir dist.	3225 Apr 21 07:37	0°8	1.5 1075 110
superior conj	3224 May 09 05:59	19° 8 48'08	-0°23'25		3223 ripi 21 07.37	° O	
minimum elong	3224 May 09 07:11	19° 8 54'27		superior conj	3225 Apr 23 04:06	3° 8 46'38	-0°52'06
asc. node	3224 May 11 12:06	24° 8 36'12	0 23 10	minimum elong	3225 Apr 23 06:50	4° 8 00'38	
ase. Hode	3224 May 14 00:39	0°II		asc. node	3225 Apr 28 09:08	14° 8 36'01	0 3133
evening rise	3224 May 14 00:39 3224 May 16 11:39	5° Ⅱ 12'53		evening rise	3225 Apr 30 20:16	19° 8 43'27	
2. cg 1100	3224 May 29 22:59	_{0°} ඉ			3225 May 05 23:31	0° Ⅱ	
evening max el	3224 Jun 06 16:12	9° 9 30'35	22°12'41	evening max el	3225 May 19 16:37	20° I I21'17	20°45'54
desc. node	3224 Jun 18 00:12	15° 9 47'55		retrograde	3225 May 17 10:37 3225 May 31 02:12	25° I 55'06	_0 100 T
retrograde	3224 Jun 19 13:10	15°953'23		evening set	3225 Jun 02 04:25	25° I I44'34	
evening set	3224 Jun 22 10:25	15°934'54		desc. node	3225 Jun 02 04:23 3225 Jun 04 21:13	25° I I02'19	
min. Earth dist.	3224 Jun 30 22:06	13 934 34 11°955'54	0.55071 AU	inferior conj	3225 Jun 11 11:30	23 H 02 19 21° H 47'05	-1°55'28
inferior conj	3224 Jul 01 18:00	11°933'34 11°927'54		minimum elong	3225 Jun 11 11:30 3225 Jun 11 06:05	21° II 54'48	
	3224 Jul 01 18:00 3224 Jul 01 09:42	11°939'35		min. Earth dist.	3225 Jun 11 06:05 3225 Jun 12 10:13		0.54908 AU
minimum elong		7°936'50	J 1 UJI			17° I I41'43	0.54700 AU
morning rise direct	3224 Jul 10 10:51 3224 Jul 13 12:37	7°936'30 7°915'42		morning rise direct	3225 Jun 20 07:17 3225 Jun 23 21:56	17° Ц 41'43 17° Ц 13'37	
direct	344 Jul 13 14.3/	1342 و 19		uncci	3443 Jun 43 41.30	1/ щ133/	

transit middle

3226 May 22 13:38

2°**Ⅱ**17'58

0°03'25

retrograde

3227 Apr 23 08:03

18°800'23

	2227 4 25 12 04	170 4 1015 6			2220 4 06 12 20	200-00	
evening set	3227 Apr 25 13:04	17° 8 43'56	10.42100		3228 Apr 06 13:29	30° ₹ Υ	
inferior conj	3227 May 03 10:09	13° 8 23'06	1°43'00	evening set	3228 Apr 07 01:46	29° Y ′50′55	2050112
minimum elong	3227 May 03 13:35	13° 8 16'46	1°41'56	inferior conj	3228 Apr 14 04:16	25° Y ′09′26	2°50'12
min. Earth dist.	3227 May 06 16:48	10° 8 59'35	0.57300 AU	minimum elong	3228 Apr 14 07:49	25° Y ′01'48	2°49'24
desc. node	3227 May 09 15:16	9° 8 07'20		min. Earth dist.	3228 Apr 17 14:22	22° Y 14'07	0.59351 AU
morning rise	3227 May 11 10:55	8° 8 12'37		morning rise	3228 Apr 21 11:15	19° Ƴ 30'47	
direct	3227 May 16 22:57	6° 8 58'47		desc. node	3228 Apr 25 12:18	17° Ƴ 55'40	
morning max el	3227 May 31 07:10	14° 8 29'11	26°14'43	direct	3228 Apr 27 19:19	17° Ƴ 41'22	
	3227 Jun 12 16:19	Π $^{\circ}0$		morning max el	3228 May 12 04:05	25° Y 29'05	27°19'52
morning set	3227 Jun 28 20:06	29° Ⅱ 29'35			3228 May 16 08:35	9° 8	
asc. node	3227 Jun 29 02:27	0° ഇ 03'09			3228 Jun 05 00:21	$\Pi^{\circ}0$	
	3227 Jun 29 01:51	0		morning set	3228 Jun 12 04:39	14° Ⅱ 11'57	
				asc. node	3228 Jun 14 23:29	20° Ⅱ 06′34	
superior conj	3227 Jul 05 19:37	14° © 39'35	1°05'28				
minimum elong	3227 Jul 05 17:19	14° © 26'58	1°05'05	superior conj	3228 Jun 19 07:22	29° Ⅱ 34′03	0°44'13
max. Earth dist.	3227 Jul 06 07:51	15° © 46'57	1.32263 AU	minimum elong	3228 Jun 19 05:34	29° Ⅲ 24'07	0°43'51
evening rise	3227 Jul 12 18:28	29° 5 340'52		max. Earth dist.	3228 Jun 18 19:54	28° Ⅲ 30′54	1.32085 AU
	3227 Jul 12 22:08	$0^{\circ}\Omega$			3228 Jun 19 12:05	0°ಅ	
	3227 Jul 29 11:08	0° m		evening rise	3228 Jun 26 03:30	14° © 27'36	
desc. node	3227 Aug 05 14:35	9° m 58'11		S	3228 Jul 03 22:39	$0^{\circ}\Omega$	
evening max el	3227 Aug 12 17:26	17° m 52'12	27°02'20	desc. node	3228 Jul 22 11:36	27° Ω 16'46	
retrograde	3227 Aug 26 14:40	25° m 04'34		evening max el	3228 Jul 24 16:09	29° Ω 29'16	26°06'04
evening set	3227 Sep 02 15:39	22° m 52'41		evening man er	3228 Jul 25 05:17	0° m)	20 00 0 .
min. Earth dist.	3227 Sep 02 13:39 3227 Sep 06 07:42	20° mp 11'38	0.61080 AU	retrograde	3228 Aug 07 15:37	6° Mp 38'39	
inferior conj	3227 Sep 09 07:12	17° m) 28'30		evening set	3228 Aug 14 00:49	4° m) 59'50	
minimum elong	3227 Sep 09 17:07	17° Mp 16'32		min. Earth dist.	3228 Aug 18 04:45	2° m/24'10	0.59012 AU
morning rise	3227 Sep 16 20:21	17 mg 10 32 12° mg 37'24	4 2047	inferior conj	3228 Aug 21 11:26	$2^{11}\sqrt{2410}$ $29^{\circ}\Omega57'10$	
direct	*			-	•	29° Ω 50'56	
asc. node	3227 Sep 19 05:32	12° Mp 14'30		minimum elong	3228 Aug 21 14:45	29 δ (30 30 30 30 30 8 Ω	4 3/0/
	3227 Sep 25 01:39	14° Mp 37'51	10000107		3228 Aug 21 09:56		
morning max el	3227 Sep 26 08:59	15° m 47'49	18°00'07	morning rise	3228 Aug 29 06:52	25° Ω 29'11	
	3227 Oct 06 06:15	0∘ ʊ		direct	3228 Aug 31 17:38	25° Ω 08'58	10020122
morning set	3227 Oct 12 04:17	10° ≏ 44'24		morning max el	3228 Sep 08 17:19	28° Ω 59'01	18°29'33
		.			3228 Sep 09 17:27	0° m	
superior conj	3227 Oct 22 07:09	29° Ω 06'39	1°07'24	asc. node	3228 Sep 10 22:43	1° m 22'48	
minimum elong	3227 Oct 22 11:28	29° ≏ 25'38	1°06'53	morning set	3228 Sep 24 19:51	24° Mp 40'18	
	3227 Oct 22 19:18	0° M			3228 Sep 27 14:10	0∘ ⊽	
max. Earth dist.	3227 Oct 29 21:35	12°M06'35	1.42151 AU				
desc. node	3227 Nov 01 13:55	16°M31'06		superior conj	3228 Oct 03 18:27	11° ≏ 43'12	1°29'44
evening rise	3227 Nov 04 19:43	21° M 44'12		minimum elong	3228 Oct 03 21:45	11° ≏ 58'31	1°29'27
	3227 Nov 10 02:31	0° √		max. Earth dist.	3228 Oct 11 04:21	25° ഫ 02'08	1.40173 AU
	3227 Dec 01 03:35	0° ප			3228 Oct 14 01:59	0° M ₊	
evening max el	3227 Dec 07 15:59	7° る 31'43	22°22'52	evening rise	3228 Oct 15 11:21	2°M19'55	
retrograde	3227 Dec 17 07:21	13° る 15'41		desc. node	3228 Oct 18 10:56	7° M .14'10	
evening set	3227 Dec 21 21:07	11° පි 24'44			3228 Nov 02 10:16	0° ∡ ¹	
asc. node	3227 Dec 22 00:51	11° る 16'55		evening max el	3228 Nov 19 06:12	21° ₮ 07'32	23°42'48
inferior conj	3227 Dec 27 05:38	5° る 03'53	1°41'50	retrograde	3228 Nov 30 00:28	27° ∡ ¹28'39	
minimum elong	3227 Dec 27 03:34	5° る 11'05	1°41'03	evening set	3228 Dec 05 03:09	25° ∡ ¹21'12	
min. Earth dist.	3227 Dec 27 03:07	5° る 12'40	0.67933 AU	asc. node	3228 Dec 07 21:56	22° ∡ ¹25'18	
	3227 Dec 31 05:44	30°₽ ⋌ ¹		min. Earth dist.	3228 Dec 09 23:45	19° ∡ ¹41'57	0.67835 AU
morning rise	3228 Jan 01 09:54	28° ₹ 53'41		inferior conj	3228 Dec 10 13:04	18° ∡ 56'33	0°53'20
direct	3228 Jan 06 01:49	26° ₹ 57'23		minimum elong	3228 Dec 10 11:51	19° ∡ ′00′43	0°52'50
	3228 Jan 12 18:03	8°0		morning rise	3228 Dec 15 20:32	12° ∡ ′50'41	
morning max el	3228 Jan 15 10:29	2° る 27'39	22°11'40	direct	3228 Dec 19 22:20	11° ∡ 17'12	
desc. node	3228 Jan 28 13:09	18° る 51'29		morning max el	3228 Dec 28 04:13	16° ∡ ¹02'56	20°51'07
	3228 Feb 05 05:32	0° ≈			3229 Jan 08 07:11	0°ਰ	
morning set	3228 Feb 17 15:56	19° ≈ 19'17		desc. node	3229 Jan 14 10:11	8° る 50'57	
max. Earth dist.	3228 Feb 23 03:19	28° ≈ 21'05	1.40958 AU	morning set	3229 Jan 26 21:41	27° る 48'42	
max. Earth dist.	3228 Feb 24 02:45	0° ∀	1.10,50110	morning sec	3229 Jan 28 07:15	0°≈	
	5220100 2T 02.TJ	5 / (max. Earth dist.	3229 Feb 04 07:26		1.42877 AU
superior conj		110 V 40147	-2°01'15	max. Darui uist.	3227 1 CO OT 07.20	11 ~1100	1.720// AU
superior conj	3228 Mar 01 21-52		4 VIII.				
minimum along	3228 Mar 01 21:52			superior coni	3220 Feb. 11 04-25	22°224'06	-2°06'29
minimum elong	3228 Mar 02 01:07	12°) €03'16		superior conj	3229 Feb 11 04:25	22°≈34'06	
_	3228 Mar 02 01:07 3228 Mar 11 19:43	12°) 03'16 0° γ		superior conj minimum elong	3229 Feb 11 03:35	22° ≈ 30'37	
evening rise	3228 Mar 02 01:07 3228 Mar 11 19:43 3228 Mar 12 05:53	12°¥03'16 0° ° 0° ° 47'25		minimum elong	3229 Feb 11 03:35 3229 Feb 15 12:41	22° ≈ 30'37 0° 米	
evening rise asc. node	3228 Mar 02 01:07 3228 Mar 11 19:43 3228 Mar 12 05:53 3228 Mar 19 00:11	12°¥03'16 0°°Y 0°°Y47'25 13°°Y09'28	2°01'05		3229 Feb 11 03:35 3229 Feb 15 12:41 3229 Feb 23 00:32	22°≈30'37 0°¥ 13°¥11'57	
evening rise	3228 Mar 02 01:07 3228 Mar 11 19:43 3228 Mar 12 05:53 3228 Mar 19 00:11 3228 Mar 28 11:33	12°\)3'16 0°\(\gamma\) 0°\(\gamma\)47'25 13°\(\gamma\)09'28 26°\(\gamma\)42'26		minimum elong evening rise	3229 Feb 11 03:35 3229 Feb 15 12:41 3229 Feb 23 00:32 3229 Mar 04 16:55	22°≈30'37 0°¥ 13°¥11'57 0°Υ	
evening rise asc. node	3228 Mar 02 01:07 3228 Mar 11 19:43 3228 Mar 12 05:53 3228 Mar 19 00:11	12°¥03'16 0°°Y 0°°Y47'25 13°°Y09'28	2°01'05	minimum elong	3229 Feb 11 03:35 3229 Feb 15 12:41 3229 Feb 23 00:32	22°≈30'37 0°¥ 13°¥11'57	

evening rise	3231 Jan 13 17:35 3231 Jan 17 00:34 3231 Feb 01 17:16	0°≈ 5°≈17'55 0°¥		superior conj minimum elong max. Earth dist.	3231 Dec 11 18:56 3231 Dec 11 14:03 3231 Dec 14 07:06	19° ₹27'37 19° ₹08'22 23° ₹24'33	
evening max el asc. node	3231 Feb 06 23:02 3231 Feb 07 15:19	6° ∺ 30'31 7° ∺ 10'28 10° ∺ 13'18	18°43'44	evening rise	3231 Dec 18 12:00 3231 Dec 28 02:42	0°る 14°る59'42 0°≈	
retrograde evening set	3231 Feb 13 15:03 3231 Feb 16 19:55	9° H 14'51		greatest brilliancy	3232 Jan 06 18:48 3232 Jan 09 02:01	0°≈ 3°≈30'48	-0.7m
inferior conj	3231 Feb 10 19:33 3231 Feb 22 12:47	3° \ 35'58	3°33'34	evening max el	3232 Jan 21 06:50	20°≈00'05	-0.7111 19°28'06
minimum elong	3231 Feb 22 11:29	3° ₩ 39'55	3°33'28	asc. node	3232 Jan 25 12:21	23°≈21'20	19 20 00
min. Earth dist.	3231 Feb 24 09:12	1°) €20'38	0.65210 AU	retrograde	3232 Jan 28 11:46	24°≈09'00	
	3231 Feb 25 12:54	30° R ≈		evening set	3232 Jan 31 23:44	22° ≈ 57'19	
morning rise	3231 Feb 28 02:36	27° ≈ 24'57		inferior conj	3232 Feb 06 11:40	17° ≈ 02'44	3°14'29
direct	3231 Mar 06 18:39	24° ≈ 33'39		minimum elong	3232 Feb 06 09:28	17° ≈ 09'53	3°14'05
desc. node	3231 Mar 17 03:25	29° ≈ 37'31		min. Earth dist.	3232 Feb 07 17:05	15° ≈ 26'47	0.66489 AU
	3231 Mar 17 13:40	0° ∀		morning rise	3232 Feb 11 18:58	10° ≈ 49'33	
morning max el	3231 Mar 20 00:49		27°00'34	direct	3232 Feb 18 00:02	8° ≈ 04'04	
	3231 Apr 09 18:53	0 ° $\mathbf{\gamma}$		morning max el	3232 Mar 01 10:16	15° ≈ 27'19	25°53'34
morning set	3231 Apr 24 17:52	26° Ƴ 13′27		desc. node	3232 Mar 03 00:27	17° ≈ 06'58	
	3231 Apr 26 16:25	0°8			3232 Mar 13 09:40	0° ∀	
max. Earth dist.	3231 Apr 29 04:52	5° 8 01'46	1.34057 AU		3232 Apr 01 15:15	0° Υ	
				morning set	3232 Apr 06 15:34	8° Y 58'55	
superior conj	3231 May 03 03:27	13° 8 08'54		max. Earth dist.	3232 Apr 10 12:07	16° Ƴ 14'23	1.35613 AU
minimum elong	3231 May 03 05:17	13° 8 18'32	0°35'11		2222 4 15 21 54	2600054124	100406
asc. node	3231 May 06 14:36	20° 8 27'21		superior conj	3232 Apr 15 21:54	26° Y 54'31 27° Y 11'24	
evening rise	3231 May 10 13:01 3231 May 11 03:20	28° ႘ 45'28 0° Ⅱ		minimum elong	3232 Apr 16 01:14 3232 Apr 17 10:26	0° 8	1-03/31
	3231 May 11 03.20 3231 May 29 07:09	0°9		asc. node	3232 Apr 17 10.26 3232 Apr 22 11:38	10° 8 23'12	
evening max el	3231 May 30 15:58		21°34'03	evening rise	3232 Apr 22 11:38 3232 Apr 23 19:51	13° 8 08'32	
retrograde	3231 Jun 11 23:05	7°926'52	21 3 1 03	evening rise	3232 May 02 15:48	0°Ⅱ	
desc. node	3231 Jun 13 02:38	7° 5 23'49		evening max el	3232 May 11 21:22	12° ∏ 30′22	20°13'55
evening set	3231 Jun 14 10:09	7°9513'07		retrograde	3232 May 22 12:54	17° Ⅱ 41'16	
inferior conj	3231 Jun 23 19:37	3°512'23	-3°01'07	evening set	3232 May 24 12:45	17° Ⅱ 31′08	
minimum elong	3231 Jun 23 11:51	3° 5 23'14	2°58'42	desc. node	3232 May 29 23:38	15° Ⅱ 34'55	
min. Earth dist.	3231 Jun 23 17:51	3° © 14'51	0.54892 AU	inferior conj	3232 Jun 02 14:56	13° Ⅱ 32'27	-1°04'19
	3231 Jun 30 07:01	30° ₹Ⅱ		minimum elong	3232 Jun 02 11:55	13° Ⅱ 36′55	1°03'11
morning rise	3231 Jul 02 14:29	29° Ⅱ 17'42		min. Earth dist.	3232 Jun 04 06:18	12° Ⅱ 34'22	0.55139 AU
direct	3231 Jul 05 21:08	28° ∏ 54'17		morning rise	3232 Jun 11 09:41	9° Ⅱ 15'58	
	3231 Jul 11 05:22	0°©		direct	3232 Jun 15 08:25	8° Ⅱ 42'13	
morning max el	3231 Jul 18 05:48	4°543'58	22°03'06	morning max el	3232 Jun 28 22:21	15° Ⅱ 20'25	23°45'06
asc. node	3231 Aug 02 13:52	26°939'37			3232 Jul 10 11:39	0°ତ 16°ତ୍ତ08'34	
marning aat	3231 Aug 04 07:37 3231 Aug 08 12:04	0° Ω 8° Ω 29'40		asc. node	3232 Jul 19 10:54 3232 Jul 22 23:36	23°924'33	
morning set	3231 Aug 06 12.04	0 062940		morning set	3232 Jul 26 01:35	23 3 24 33	
superior conj	3231 Aug 15 16:59	23° Ω 44'26	1°40'51		3232 Jul 20 01.33	0 00	
minimum elong	3231 Aug 15 15:38	23° Ω 37'18	1°40'46	superior conj	3232 Jul 29 23:55	8° Ω 30'29	1°30'55
Č	3231 Aug 18 17:10	0° m)		minimum elong	3232 Jul 29 21:48	8° Ω 19'05	1°30'42
max. Earth dist.	3231 Aug 19 05:56	1° m 05'26	1.34562 AU	max. Earth dist.	3232 Aug 01 05:46	13° Ω 19′03	1.33341 AU
evening rise	3231 Aug 23 19:05	10°M/08'33		evening rise	3232 Aug 06 11:28	24° Ω 10′13	
	3231 Sep 03 21:02	0∘ 亚			3232 Aug 09 10:35	0° m ∕	
desc. node	3231 Sep 09 02:00	8° ≏ 16′05		desc. node	3232 Aug 25 22:59	27° m 52'21	
	3231 Sep 25 17:51	0°M₊			3232 Aug 27 10:42	0∘ ⊽	
evening max el	3231 Sep 27 19:30	2°M04'25	26°58'22	evening max el	3232 Sep 09 07:07	15° ≏ 22'36	27°24'13
retrograde	3231 Oct 11 00:10	9°M20'48		retrograde	3232 Sep 22 20:47	22° £ 40'16	
evening set	3231 Oct 17 18:46	6°M38'57	0.65407.444	evening set	3232 Sep 29 23:46	20° ♀ 00'17	0.64010.441
min. Earth dist. inferior conj	3231 Oct 21 17:24 3231 Oct 23 16:27	0°M30'23	0.65497 AU	min. Earth dist. inferior conj	3232 Oct 03 16:39 3232 Oct 06 04:11	16° ≏ 41'04 14° ≏ 06'09	0.64019 AU
minimum elong	3231 Oct 23 16.27 3231 Oct 23 19:41	0°M21'04		minimum elong	3232 Oct 06 04.11 3232 Oct 06 09:01	14 ≥ 00 09 13° ♀ 53'34	
mmmum ciong	3231 Oct 23 19.41 3231 Oct 24 03:03	0 11621 04 30°R Ω	1 30 49	morning rise	3232 Oct 06 09:01 3232 Oct 12 19:29	8° £ 44'09	2 30 00
morning rise	3231 Oct 24 03:03 3231 Oct 29 21:25	24° £ 52'40		direct	3232 Oct 12 19:29 3232 Oct 15 08:09	8° £ 12'13	
asc. node	3231 Oct 29 13:05	25° £ 03'40		asc. node	3232 Oct 15 08:09 3232 Oct 15 10:06	8° ⊆ 12'15	
direct	3231 Nov 01 15:56	24° ♀ 10'47		morning max el	3232 Oct 21 20:48	11° ≏ 37'39	17°53'52
morning max el	3231 Nov 08 04:24	27° ≙ 41'55	18°13'18	5	3232 Nov 03 09:47	0° M	
Č	3231 Nov 10 06:14	0°M₊		morning set	3232 Nov 07 18:18	7°M26'44	
morning set	3231 Nov 26 22:08	25°M34'22					
	3231 Nov 29 15:19	0° ∡ ¹		superior conj	3232 Nov 20 14:06	28°M56'11	0°09'13
desc. node	3231 Dec 06 01:17	10° ∡ 20′56		minimum elong	3232 Nov 20 15:08	29°M00'22	0°09'03
				behind sun begin	3232 Nov 20 06:46	28°M26'19	

minimum elong	3234 Oct 14 14:25	22° ≙ 00'07	1°17'48	minimum elong	3235 Sep 27 08:14	4° ≙ 54'31	1°35'46
	3234 Oct 19 03:08	0° M		max. Earth dist.	3235 Oct 04 06:52	17° ≏ 39'21	1.39294 AU
max. Earth dist.	3234 Oct 22 01:26	5°M00'42	1.41344 AU	evening rise	3235 Oct 08 05:47	24° £ 31'54	
desc. node	3234 Oct 26 16:21	12°M40'18			3235 Oct 11 12:05	0° M.	
evening rise	3234 Oct 27 03:54	13°M27'08		desc. node	3235 Oct 13 13:22	3°M21'03	
	3234 Nov 06 18:57	0° ∡ ¹			3235 Oct 31 13:17	0° ∡ ¹	
	3234 Nov 29 08:10	0°ප		evening max el	3235 Nov 12 12:36	14° ∡ 17'15	24°16'29
evening max el	3234 Nov 29 23:11	0° る 38'22	22°56'48	retrograde	3235 Nov 23 17:35	20° ₹ 51'11	
retrograde	3234 Dec 10 02:13	6° る 38'46		evening set	3235 Nov 29 02:08	18° ∡ ³37′05	
evening set	3234 Dec 14 21:14	4° る 41'03		asc. node	3235 Dec 03 00:30	14° ∤ 14'29	
asc. node	3234 Dec 16 03:28	3°₹30'11		min. Earth dist.	3235 Dec 03 19:17	13° √ 12'12	0.67698 AU
	3234 Dec 19 00:30	30°₹ ৴		inferior conj	3235 Dec 04 13:04	12° ≯ 12'25	0°31'09
inferior conj	3234 Dec 20 06:13	28° ≯ 18'11	1°21'58	minimum elong	3235 Dec 04 12:19	12° ≯ 14'55	0°30'51
minimum elong	3234 Dec 20 04:27	28° ≯ ¹24'16	1°21'16	morning rise	3235 Dec 09 22:33	6° ₰ 09'05	
min. Earth dist.	3234 Dec 19 23:08	28° ∡ ¹42'37	0.67934 AU	direct	3235 Dec 13 18:55	4° ≯ 44'34	
morning rise	3234 Dec 25 11:32	22° ₹ 09'21		morning max el	3235 Dec 21 14:53	9° ∡ 13'29	20°20'22
direct	3234 Dec 29 21:21	20° ≯ 22'41			3236 Jan 06 07:31	0°る	
morning max el	3235 Jan 07 17:55	25° ≯ 33'08	21°36'00	desc. node	3236 Jan 09 12:40	4° る 47'21	
	3235 Jan 11 17:49	0°ප		morning set	3236 Jan 18 13:50	18° る 35'21	
desc. node	3235 Jan 22 15:38	14° る 38'47			3236 Jan 25 20:34	0° ≈	
	3235 Feb 01 23:31	0° ≈		max. Earth dist.	3236 Jan 28 12:18	4°≈14'35	1.43568 AU
morning set	3235 Feb 08 15:10	10° ≈ 22'48					
max. Earth dist.	3235 Feb 15 04:27	21° ≈ 00'17	1.41819 AU	superior conj	3236 Feb 03 13:56	14° ≈ 07'54	
	3235 Feb 20 12:37	0° ∀		minimum elong	3236 Feb 03 10:38	13°≈54'16	2°03'41
					3236 Feb 12 22:56	0° ∀	
superior conj	3235 Feb 22 18:21	3° ¥ 52'05		evening rise	3236 Feb 16 03:42	5°) 33′24	
minimum elong	3235 Feb 22 20:14	4°) €00'15	2°05'13	asc. node	3236 Feb 28 23:48	26° ¥ 58'31	
evening rise	3235 Mar 05 16:42	23°) 30′09			3236 Mar 02 05:17	$0^{\circ}\mathbf{\Upsilon}$	
	3235 Mar 09 06:09	$0^{\circ}\mathbf{\Upsilon}$		evening max el	3236 Mar 04 15:27	2° Ƴ 44'58	18°08'36
asc. node	3235 Mar 14 02:45	8° Ƴ 31'07		retrograde	3236 Mar 11 02:37	6° Y 08′09	
evening max el	3235 Mar 22 03:08	19° Ƴ 34'10	18°10'21	evening set	3236 Mar 13 22:15	5° Y 28'24	
retrograde	3235 Mar 28 22:57	23° Y 00′59		inferior conj	3236 Mar 20 04:39		3°34'32
evening set	3235 Mar 31 12:56	22° Y 31′58		minimum elong	3236 Mar 20 05:51	0° Υ 14'46	3°34'27
inferior conj	3235 Apr 07 08:37	17° Y 41'53	3°09'02		3236 Mar 20 11:29	30° ₹	
minimum elong	3235 Apr 07 11:36	17° Y 35′02	3°08'30	min. Earth dist.	3236 Mar 23 01:03	27° ∺ 20'07	0.62410 AU
min. Earth dist.	3235 Apr 10 16:27	14° Y 40'31	0.60279 AU	morning rise	3236 Mar 26 12:10	24°) 16′38	
morning rise	3235 Apr 14 08:03	11° Y 54'47		direct	3236 Apr 02 09:41	21°) (43'41	
direct	3235 Apr 20 22:26	9° Y 50'14		desc. node	3236 Apr 06 11:50	22°) (31'41	
desc. node	3235 Apr 20 14:47	9° Y 50'31		morning max el	3236 Apr 16 10:54	29°)(40'54	27°50'42
morning max el	3235 May 05 05:28	17° Y 42′24	27°37'04		3236 Apr 16 18:31	0° Υ	
	3235 May 15 11:11	0°8			3236 May 08 10:24	0° 8	
	3235 Jun 02 08:27	0°II		morning set	3236 May 20 05:57	22° 8 01'22	
morning set	3235 Jun 06 04:22	7° Ⅱ 43'44			3236 May 24 02:14	0°Ⅱ	
asc. node	3235 Jun 10 02:02	16° Ⅱ 00′25		max. Earth dist.	3236 May 25 19:46		1.32534 AU
max. Earth dist.	3235 Jun 12 11:34	21°Щ13′53	1.32130 AU	asc. node	3236 May 26 23:05	6° Ⅱ 08'53	
	2225 1 12 00 22	000 T 10140	002442		222634 27 10 15	50T 55122	0000125
superior conj	3235 Jun 13 09:23	23° I 13'43		superior conj	3236 May 27 18:45	7° I 55'33	0°08'37
minimum elong	3235 Jun 13 07:55	23° Ⅱ 05'38	0°33'54	minimum elong	3236 May 27 18:21	7° Ⅱ 53'20	0°08'31
	3235 Jun 16 11:18	0°50		behind sun begin	3236 May 27 13:56	7° Ⅱ 29'24	
evening rise	3235 Jun 20 05:26	8°507'10		behind sun end	3236 May 27 22:45	8° Ⅱ 17'17	
	3235 Jul 01 13:42	0° Ω	25022120	evening rise	3236 Jun 03 17:12	22°Ⅲ57'25 0° ©	
evening max el desc. node	3235 Jul 17 14:21	21° Ω 32'52 21° Ω 32'05	25-35-38		3236 Jun 07 02:34 3236 Jun 26 01:20	0°€	
	3235 Jul 17 14:01						24902122
retrograde	3235 Jul 31 14:03	28° Ω 39'41 27° Ω 17'40		evening max el	3236 Jun 28 04:13	2° Ω 10'42 6° Ω 24'09	24°03'23
evening set min. Earth dist.	3235 Aug 06 12:08	24° Ω 38'16	0.58152 AU	desc. node	3236 Jul 03 11:03 3236 Jul 11 22:55	9° Ω 06'58	
	3235 Aug 11 02:23	$24^{\circ} \Omega 38^{\circ} 10$ $22^{\circ} \Omega 24'28$		retrograde	3236 Jul 16 11:36	9 8 206 38 8° Ω 21'34	
inferior conj	3235 Aug 14 06:26	$22^{\circ} \Omega 24^{\circ} 28$ $22^{\circ} \Omega 21^{\circ} 51$		evening set min. Earth dist.	3236 Jul 16 11:36 3236 Jul 22 14:45		0.56362 AU
minimum elong morning rise	3235 Aug 14 07:55 3235 Aug 22 05:59	$18^{\circ} \Omega 05'47$	J U444	inferior conj	3236 Jul 22 14:45 3236 Jul 25 01:56	3° Ω 51'03	
=	-	18°8 2 05'47 17° Ω 46'07			3236 Jul 25 01:56 3236 Jul 24 21:41	3° £ 51′03 3° £ 51′03	
direct morning max el	3235 Aug 24 18:15 3235 Sep 02 05:26	1/°8 (46'07') 21°Ω47'08	18°48'23	minimum elong	3236 Jul 24 21:41 3236 Aug 01 21:54	3°8€5/38 30°8€	+ 3400
asc. node	•	21° δℓ 47'08 26° Ω 09'48	10 40 23	morning rise	•	29° © 52'09	
asc. noue	3235 Sep 06 01:17			morning rise direct	3236 Aug 02 10:23	29°932'51	
morning sot	3235 Sep	0°Mp 18°M≈05'10		uncet	3236 Aug 05 03:47	29° £ 32′51	
morning set	3235 Sep 18 16:25 3235 Sep 24 18:43	18°₯05'10 0° <u>മ</u>		morning max el	3236 Aug 08 06:59 3236 Aug 15 00:15		19°48'22
	5255 Sep 24 18:43	V ==		asc. node	3236 Aug 15 00:15 3236 Aug 22 22:19	4°870723 14°Ω14'17	17 40 22
superior conj	3235 Sep 27 05:38	4° £ 42'13	1°35'58	ase. Houc	3236 Aug 31 12:41	0°M)	
superior conj	5255 Бер 27 05.56	. — 12 13	1 33 30		5250 Aug 51 12.71	עייי	

morning set	3236 Sep 01 19:30	2° Mp 34'46		morning set	3237 Aug 17 03:25 3237 Aug 23 05:08	17° Ω 18'54 0° m	
superior conj	3236 Sep 09 15:51	18° Mp 26′53	1°43'59				
minimum elong	3236 Sep 09 16:40	18° m 30'59	1°43'57	superior conj	3237 Aug 24 12:40	2° Mp 43'33	1°43'57
max. Earth dist.	3236 Sep 15 11:39	29° m 42'59	1.37247 AU	minimum elong	3237 Aug 24 11:58	2° Mp 40'00	1°43'56
	3236 Sep 15 15:17	0∘ ত		max. Earth dist.	3237 Aug 28 21:18	11° m /34'01	1.35435 AU
evening rise	3236 Sep 19 06:22	6° ₽ 39'23		evening rise	3237 Sep 02 01:54	19° m 40'55	
desc. node	3236 Sep 29 10:22	23° £ 51'53		-	3237 Sep 07 18:07	0∘ ত	
	3236 Oct 03 08:56	0°M⊾		desc. node	3237 Sep 16 07:23	14° ≏ 07'37	
evening max el	3236 Oct 25 00:45	27°ML58'18	25°30'41		3237 Sep 27 09:39	0°M₊	
δ ·	3236 Oct 27 05:22	0° ∡¹		evening max el	3237 Oct 07 13:01	11°M37'50	26°31'54
retrograde	3236 Nov 06 04:30	4° ∡ 757'22		retrograde	3237 Oct 20 10:27	18° M 51'29	
evening set	3236 Nov 12 03:08	2° × ⁷ 28'38		evening set	3237 Oct 26 22:20	16°M12'21	
e venning see	3236 Nov 14 14:11	30°RML		min. Earth dist.	3237 Oct 31 00:38	11°ML58'07	0.66187 AU
min. Earth dist.	3236 Nov 16 12:32	27°M38'35	0.67116 AU	inferior conj	3237 Nov 01 16:50	9° M 57'13	
inferior conj	3236 Nov 17 17:15	26°M06'25		minimum elong	3237 Nov 01 19:06	9°M50'25	1°22'09
minimum elong	3236 Nov 17 17:52	26°M04'25	0°24'02	asc. node	3237 Nov 05 18:34	5°M33'54	1 22 0)
asc. node	3236 Nov 17 17:32 3236 Nov 18 21:33	24°M36'39	0 24 02	morning rise	3237 Nov 07 16:30	4°M12'13	
morning rise	3236 Nov 23 08:54	20°M10'58		direct	3237 Nov 07 10:30 3237 Nov 10 15:23	3°M23'09	
direct	3236 Nov 26 17:28	19°ML06'02		morning max el	3237 Nov 10 13:23 3237 Nov 17 07:03	7° M .01'45	10022110
	3236 Dec 03 19:44	23°ML04'21	19°18'29	morning max ci	3237 Nov 17 07:03 3237 Dec 03 08:43	7 IIC01 43 0° ⊀7	16 32 16
morning max el	3236 Dec 03 13:47	23 1160421 0° √	19 16 29	morning got	3237 Dec 03 08:43 3237 Dec 07 13:22	6° ∡ ¹41'30	
	3236 Dec 09 13:47 3236 Dec 17 11:15		0.7	morning set desc. node		15° × ¹ 47'37	
greatest brilliancy		11° 🗷 28'07	-0.7m	desc. node	3237 Dec 13 06:40	15° X' 4/'3/ 0° る	
desc. node	3236 Dec 26 09:40	25° ₹ 11'50			3237 Dec 22 07:00	0.0	
morning set	3236 Dec 27 13:57	27° ₹ 01'29			2027 D 22 10 44	10-740140	1005102
To all the	3236 Dec 29 11:57	0°る	1 44742 433	superior conj	3237 Dec 23 10:44	1°る48'48	
max. Earth dist.	3237 Jan 10 02:40	18° る 09'51	1.44742 AU	minimum elong	3237 Dec 23 02:49		1°04'26
				max. Earth dist.	3237 Dec 23 20:42	2° る 27'55	1.45215 AU
superior conj	3237 Jan 13 07:59	23° ⋜ 16'09		evening rise	3238 Jan 08 08:26	26° る 52'01	
minimum elong	3237 Jan 12 23:33	22°る42'37	1°42'57		3238 Jan 10 07:47	0° ≈	
	3237 Jan 17 12:54	0° ≈		greatest brilliancy	3238 Jan 17 11:02	11° ≈ 17'58	-0.8m
evening rise	3237 Jan 27 17:43	16° ≈ 41'14		evening max el	3238 Jan 30 13:50	29° ≈ 34'49	19°00'35
	3237 Feb 04 18:50	0° ₩			3238 Jan 30 23:53	0° ∀	
asc. node	3237 Feb 14 20:50	14°) 43′01		asc. node	3238 Feb 01 17:51	1° ∺ 32′20	
evening max el	3237 Feb 16 03:49	16° ∺ 06'49	18°25'42	retrograde	3238 Feb 06 10:41	3° ¥ 27'56	
retrograde	3237 Feb 22 15:50	19° ∺ 39'31		evening set	3238 Feb 09 18:18	2°) 24′10	
evening set	3237 Feb 25 17:04	18°) 48′14			3238 Feb 12 12:53	30°R≈	
inferior conj	3237 Mar 03 13:57	13° ₩ 19'02	3°38'41	inferior conj	3238 Feb 15 08:47	26° ≈ 38'19	3°26'56
minimum elong	3237 Mar 03 13:25	13° ∺ 20′33		minimum elong	3238 Feb 15 07:02	26° ≈ 43'50	
min. Earth dist.	3237 Mar 05 19:18	10°) 44′19	0.64289 AU	min. Earth dist.	3238 Feb 16 22:43	24°≈38'52	0.65804 AU
morning rise	3237 Mar 09 09:06	7° ∺ 10′08		morning rise	3238 Feb 20 19:23	20° ≈ 25'50	
direct	3237 Mar 16 05:00	4° ∺ 21′28		direct	3238 Feb 27 07:12	17° ≈ 35′24	
desc. node	3237 Mar 24 08:52	7° ∺ 31'41		desc. node	3238 Mar 11 05:54	24° ≈ 15′27	
morning max el	3237 Mar 29 20:03	12° ∺ 15'55	27°28'00	morning max el	3238 Mar 12 05:58	25° ≈ 14'49	26°34'36
	3237 Apr 12 23:53	$0^{\circ}\mathbf{\Upsilon}$			3238 Mar 16 14:06	0° ∀	
	3237 Apr 30 22:29	8°			3238 Apr 06 11:27	0 ° Υ	
morning set	3237 May 03 23:38	5° 8 52'35		morning set	3238 Apr 17 05:54	19° Ƴ 05'58	
max. Earth dist.	3237 May 08 20:31	15° 8 43'37	1.33364 AU	max. Earth dist.	3238 Apr 21 10:14	27° Ƴ 11'35	1.34658 AU
					3238 Apr 22 19:59	9° 8	
superior conj	3237 May 12 00:11	22° 8 21'33	-0°19'05				
minimum elong	3237 May 12 01:09	22° 8 26'41	0°18'53	superior conj	3238 Apr 25 23:25	6° 8 24'12	-0°47'46
asc. node	3237 May 13 20:07	26° 8 16'09		minimum elong	3238 Apr 26 01:55	6° 8 37'05	0°47'17
	3237 May 15 13:51	Π $^{\circ}$ 0		asc. node	3238 Apr 30 17:08	16° 8 17'22	
evening rise	3237 May 19 04:37	7° Ⅱ 42'34		evening rise	3238 May 03 13:43	22° 8 15'22	
	3237 May 30 23:59	0 \circ \odot			3238 May 07 09:22	$\Pi^{\circ}0$	
evening max el	3237 Jun 09 18:43	12° © 36'59	22°26'47	evening max el	3238 May 22 17:31	23° Ⅲ 23′04	20°57'57
desc. node	3237 Jun 20 08:04	18° © 51'37		retrograde	3238 Jun 03 09:05	29° Ⅱ 04'36	
retrograde	3237 Jun 22 19:56	19° © 05'56		evening set	3238 Jun 05 12:56	28° Ⅱ 53'35	
evening set	3237 Jun 25 21:26	18°9345'14		desc. node	3238 Jun 07 05:06	28° Ⅱ 30'48	
min. Earth dist.	3237 Jul 04 01:45	15°512'18	0.55175 AU	inferior conj	3238 Jun 14 21:10	24° ∏ 55'54	-2°13'27
inferior conj	3237 Jul 05 03:40	14°535'34	-3°56'15	minimum elong	3238 Jun 14 14:59	25° Ⅱ 04'38	
minimum elong	3237 Jul 04 19:28	14°9647'12		min. Earth dist.	3238 Jun 15 13:40	24° Ⅲ 32'31	0.54871 AU
morning rise	3237 Jul 13 19:35	10°944'42		morning rise	3238 Jun 23 16:55	20° Ⅱ 53'49	
direct	3237 Jul 16 19:54	10°924'05		direct	3238 Jun 27 05:16	20° Ⅲ 27′10	
morning max el	3237 Jul 28 07:34	15° © 44'37	21°09'01	morning max el	3238 Jul 10 04:17	26° Ⅲ 39′09	22°45'48
-	3237 Aug 08 02:09	$0^{\circ}\Omega$		-	3238 Jul 13 09:45	0°©	
asc. node	3237 Aug 09 19:21	2° Ω 59'25		asc. node	3238 Jul 27 16:22	22°514'23	
	-						

morning set	3238 Jul 31 13:02 3238 Aug 01 14:06	0° Ω 2° Ω 10'49		direct morning max el	3239 Jun 07 21:09 3239 Jun 21 18:54 3239 Jul 08 08:59	0°∏10′28 7°∏06′34 0°©	24°28'37
superior conj	3238 Aug 08 16:39	17° Ω 20′52	1°37'18	asc. node	3239 Jul 14 13:26	11° © 51'31	
minimum elong	3238 Aug 08 14:55	17° Ω 11'36	1°37'10	morning set	3239 Jul 17 01:53	17° © 05'37	
max. Earth dist.	3238 Aug 11 15:40	23° Ω 35′04	1.33989 AU		3239 Jul 23 01:13	$0^{\circ}\Omega$	
	3238 Aug 14 18:51	0° m					
evening rise	3238 Aug 16 11:49	3° m 23'44		superior conj	3239 Jul 24 01:16	2° Ω 10'56	1°25'09
	3238 Aug 31 13:35	0∘ ⊽		minimum elong	3239 Jul 23 22:59	1° Ω 58'32	1°24'53
desc. node	3238 Sep 03 04:25	4° £ 00'36	27012140	max. Earth dist.	3239 Jul 25 18:54	5° Ω 56'23 17° Ω 36'47	1.32952 AU
evening max el	3238 Sep 20 01:20 3238 Sep 26 04:11	25° £ 07'08 0° IL	2/1248	evening rise	3239 Jul 31 08:15 3239 Aug 06 17:20	0° Mp	
retrograde	3238 Oct 03 10:45	2°M25'24		desc. node	3239 Aug 00 17:20 3239 Aug 21 01:26	رانا 0 23°Mp21'22	
evening set	3238 Oct 10 09:20	29° Ω 43'10		dese. Hode	3239 Aug 26 01:14	23 ایک ایک ا 0° ی	
	3238 Oct 10 00:31	30° ₽ Ω		evening max el	3239 Sep 02 12:07	8° ≏ 14'09	27°26'26
min. Earth dist.	3238 Oct 14 05:20	26° ≏ 04'23	0.64904 AU	retrograde	3239 Sep 16 04:37	15° ≏ 30'33	
inferior conj	3238 Oct 16 09:38	23° △ 39'55	-2°23'22	evening set	3239 Sep 23 09:06	12° ≏ 55'16	
minimum elong	3238 Oct 16 13:36	23° ≏ 28'59	2°21'52	min. Earth dist.	3239 Sep 27 00:30	9° ≏ 48'40	0.63287 AU
morning rise	3238 Oct 22 18:52	18° ≏ 08'22		inferior conj	3239 Sep 29 17:01	7° ჲ 08'25	
asc. node	3238 Oct 23 15:35	17° Ω 48'14		minimum elong	3239 Sep 29 22:21	6° Ω 55'08	3°20'35
direct	3238 Oct 25 10:28	17° Ω 31'16	10000150	morning rise	3239 Oct 06 12:57	1° £ 53'43	
morning max el	3238 Oct 31 22:20	20° £ 59'21	18°02'52	direct	3239 Oct 08 23:56	1° £ 24'56	
morning set	3238 Nov 07 20:02 3238 Nov 18 18:17	0° M 17° M 49'23		asc. node morning max el	3239 Oct 10 12:38 3239 Oct 15 14:46	1° £ 36'20 4° £ 50'38	17°50'56
morning set	3238 Nov 16 18:17 3238 Nov 26 03:16	0° √		morning max cr	3239 Oct 13 14:40 3239 Oct 31 22:05	0°M	17 30 30
desc. node	3238 Nov 30 03:43	6° х 30'45		morning set	3239 Nov 01 00:19	0° IL 09'44	
				3.11			
superior conj	3238 Dec 02 18:28	10° х 42′06		superior conj	3239 Nov 13 00:13	20°M41'23	0°27'29
minimum elong	3238 Dec 02 16:16	10° ∡ 33'19	0°17'27	minimum elong	3239 Nov 13 02:58	20°M52'46	0°27'06
max. Earth dist.	3238 Dec 06 15:42	16° ∡ ′51'47	1.44946 AU	desc. node	3239 Nov 17 00:44	27°M17'23	
	3238 Dec 15 01:25	0°る		P. d. F.	3239 Nov 18 16:58	0° 🖍	1 42076 444
evening rise greatest brilliancy	3238 Dec 19 02:45 3239 Jan 01 21:02	6°る16'42 27°る15'50	-0.7m	max. Earth dist. evening rise	3239 Nov 19 09:01 3239 Nov 28 11:50	1° 尽 04'27 15° 尽 24'16	1.43976 AU
greatest offinancy	3239 Jan 03 17:38	27 ⊘ 13 30 0° ≈	-0.7111	evening rise	3239 Nov 28 11:30 3239 Dec 08 02:48	13 メ ・24 10	
evening max el	3239 Jan 13 19:42	0 ∞ 13°≈06'01	19°51'40	evening max el	3239 Dec 08 02:48 3239 Dec 27 20:12	0 0 26° る 37'59	20°56'26
asc. node	3239 Jan 19 14:52	17°≈12'22	1, 01.0	evening man er	3239 Dec 31 18:03	0°≈	20 00 20
retrograde	3239 Jan 21 08:14	17° ≈ 28'33		retrograde	3240 Jan 05 06:07	1° ≈ 36'45	
evening set	3239 Jan 24 23:35	16° ≈ 11'06		asc. node	3240 Jan 06 11:55	1° ≈ 28′16	
inferior conj	3239 Jan 30 10:09	10° ≈ 10′56	3°03'06	evening set	3240 Jan 09 06:56	0°≈04'16	
minimum elong	3239 Jan 30 07:45	10° ≈ 18′56	3°02'34		3240 Jan 09 09:07	30°₹ ⋜	
min. Earth dist.	3239 Jan 31 09:45	8° ≈ 52′21	0.66910 AU	inferior conj	3240 Jan 14 15:35	23° る 52'31	2°29'45
morning rise	3239 Feb 04 15:41	3°≈57'22		minimum elong	3240 Jan 14 13:04	24°る01'12	2°29'00
direct	3239 Feb 10 15:13	1°≈17'07	25010120	min. Earth dist.	3240 Jan 15 02:18	23° る 15'43	0.67606 AU
morning max el desc. node	3239 Feb 22 14:52 3239 Feb 26 02:55	8°≈26'18 12°≈13'57	25°19'30	morning rise direct	3240 Jan 19 19:01 3240 Jan 25 04:04	17°る39'35 15°る17'39	
desc. node	3239 Mar 11 13:04	0° ∺		morning max el	3240 Feb 04 23:19	13 3 1739 21° 3 43'49	23°52'49
	3239 Mar 30 00:29	0°Υ		morning max ci	3240 Feb 12 03:34	0°≈	23 32 47
morning set	3239 Mar 30 20:12	1°Υ28'36		desc. node	3240 Feb 12 23:58	1°≈05'07	
max. Earth dist.	3239 Apr 03 12:33	8° Y 15'05	1.36403 AU		3240 Mar 03 20:08	0°) €	
				morning set	3240 Mar 11 12:36	12°) 43′56	
superior conj	3239 Apr 09 13:43	19° Y 56'15		max. Earth dist.	3240 Mar 15 08:20	19°) €24'09	1.38478 AU
minimum elong	3239 Apr 09 17:36	20° Y 15′33	1°15'10		3240 Mar 21 03:49	0 ° \mathbf{Y}	
	3239 Apr 14 13:38	0°8					
evening rise	3239 Apr 17 18:24	6° 8 29'55		superior conj	3240 Mar 22 15:27	2° Υ 47'41	
asc. node	3239 Apr 17 14:11	6° 8 08'34		minimum elong	3240 Mar 22 20:01	3°Υ09'21	1°40'16
evening max el	3239 May 01 01:23 3239 May 05 04:17	0° П 4° П 47'21	100/15/26	evening rise asc. node	3240 Mar 31 16:02 3240 Apr 03 11:14	20° Υ 18'31 25° Υ 44'30	
retrograde	3239 May 15 01:53	9° П 35'28	17 73 40	ase. Houe	3240 Apr 05 17:22	0° 8	
evening set	3239 May 17 01:28	9° ∏ 24'46		evening max el	3240 Apr 17 02:08	16° 8 51'04	18°52'35
desc. node	3239 May 25 02:07	5° Ⅲ 51'51		retrograde	3240 Apr 25 10:25	20° 8 55'23	= = =
inferior conj	3239 May 25 20:57	5° Ⅱ 22'49	-0°13'50	evening set	3240 Apr 27 14:27	20° 8 39'59	
minimum elong	3239 May 25 20:19	5° Ⅱ 23'47	0°13'36	inferior conj	3240 May 05 14:28	16° 8 21'53	1°29'56
transit middle	3239 May 25 20:19	5° Ⅱ 23'47	0°13'36	minimum elong	3240 May 05 17:38	16° 8 16'11	1°28'54
transit begin	3239 May 25 18:15	5° Ⅱ 27'00		min. Earth dist.	3240 May 08 19:12	14° 8 05'01	0.57023 AU
transit end	3239 May 25 22:23	5° Ⅲ 20'35		desc. node	3240 May 10 23:09	12° 8 41'22	
min. Earth dist.	3239 May 28 03:10	3° ∏ 59'04	0.55538 AU	morning rise	3240 May 13 17:40	11° 8 16'16	
morning rise	3239 Jun 03 12:51	0° ∏ 52′20		direct	3240 May 19 02:04	10° 8 07'30	

marning rise	2242 Amr 06 00:24	4° Υ 26'34		minimum alana	2242 Mar 12 19:41	23°) €06'52	2020121
morning rise	3242 Apr 06 08:24	4 1 20 34 2°Υ08'23		minimum elong	3243 Mar 13 18:41		
direct	3242 Apr 13 02:54			min. Earth dist.	3243 Mar 16 08:37	20°) 17′53	0.63247 AU
desc. node	3242 Apr 14 17:14	2°Υ15'40	27047120	morning rise	3243 Mar 19 20:04	17°) €03'03	
morning max el	3242 Apr 27 08:14	10° Y 04'34	2'/~4'/'29	direct	3243 Mar 26 18:02	14°) €21'21	
	3242 May 12 19:21	0° 8		desc. node	3243 Apr 01 14:16	15° ¥ 59'33	
	3242 May 29 13:00	$\Pi^{\circ 0}$		morning max el	3243 Apr 09 15:21	22°) 18'47	27°45'12
morning set	3242 May 30 03:07	1° Ⅱ 12'20			3243 Apr 16 09:43	0° Υ	
asc. node	3242 Jun 04 04:35	11° ∏ 54'40			3243 May 05 23:45	0°8	
max. Earth dist.	3242 Jun 05 02:50	13° Ⅱ 55′27	1.32247 AU	morning set	3243 May 14 01:40	15° 8 19'29	
				max. Earth dist.	3243 May 19 08:06	26° 8 12'19	1.32832 AU
superior conj	3242 Jun 06 11:00	16° Ⅱ 51′08	0°23'41		3243 May 21 02:46	Π °0	
minimum elong	3242 Jun 06 09:57	16° Ⅱ 45'19	0°23'27				
	3242 Jun 12 11:39	0°€		superior conj	3243 May 21 18:56	1° Ⅱ 26'57	-0°02'56
evening rise	3242 Jun 13 07:38	1° 5 46'44		minimum elong	3243 May 21 19:05	1° Ⅲ 27'44	0°02'55
	3242 Jun 28 15:03	$0^{\circ}\Omega$		behind sun begin	3243 May 21 13:53	0°Ⅲ59'43	
evening max el	3242 Jul 09 11:10	13° Ω 27'51	24°57'03	behind sun end	3243 May 22 00:17	1° Ⅱ 55'46	
desc. node	3242 Jul 11 16:29	15° Ω 27'04		asc. node	3243 May 22 01:37	2° Ⅱ 02'59	
retrograde	3242 Jul 23 10:15	20° Ω 32'15		evening rise	3243 May 28 19:27	16° Ⅲ 35'17	
evening set	3242 Jul 28 19:01	19° Ω 26'38			3243 Jun 04 11:13	0°ಲಾ	
min. Earth dist.	3242 Aug 02 22:42	16° Ω 40′22	0.57337 AU	evening max el	3243 Jun 21 00:30	23°957'10	23°22'10
inferior conj	3242 Aug 05 21:37	14° Ω 42'36	-5°05'41	desc. node	3243 Jun 28 13:30	29° © 21'38	
minimum elong	3242 Aug 05 20:48	14° Ω 43'58	5°05'40		3243 Jun 30 04:33	$0^{\circ}\Omega$	
morning rise	3242 Aug 14 01:08	10° Ω 33'10		retrograde	3243 Jul 04 13:48	0°Ω43'45	
direct	3242 Aug 16 15:09	10° Ω 13'58		evening set	3243 Jul 08 10:35	0°Ω11'03	
morning max el	3242 Aug 25 15:45	14° Ω 27'58	19°11'13	evening see	3243 Jul 09 01:31	30°Rூ	
asc. node	3242 Aug 31 03:49	21° Ω 05'27	17 11 15	min. Earth dist.	3243 Jul 15 10:18	26°958'51	0.55770 AU
ase. Houe	3242 Sep 05 13:42	0° m		inferior conj	3243 Jul 17 08:53	25°\$50'08	
morning set	3242 Sep 11 14:14	11° m 33'00		minimum elong	3243 Jul 17 08:33	25° © 59'44	
morning set	3242 Sep 11 14.14	11 11 33 00		morning rise	3243 Jul 25 20:40	21°956'08	4 34 39
avmariar aani	2242 Cap. 10, 10,20	270 m 40140	1°40'26	direct	3243 Jul 28 16:45	21°536'29	
superior conj	3242 Sep 19 19:29	27° Mp 48'49					20920112
minimum elong	3242 Sep 19 21:20	27° m 57'43	1°40'20	morning max el	3243 Aug 08 05:38	26°\$29'47	20°20'13
To all the	3242 Sep 20 22:43	0∘ ʊ	1 20 400 411	1	3243 Aug 11 12:26	0° N	
max. Earth dist.	3242 Sep 26 09:10	10° Ω 09'09	1.38408 AU	asc. node	3243 Aug 18 00:50	9° £ 28′21	
evening rise	3242 Sep 30 04:15	16° £ 54'11		morning set	3243 Aug 26 19:38	26° Ω 09'19	
desc. node	3242 Oct 07 15:47	29° £ 25'24			3243 Aug 28 16:36	0° m	
	3242 Oct 08 00:25	0°M					
	3242 Oct 29 02:04	0°⊀		superior conj	3243 Sep 03 10:39	11°Mp48'02	1°44'50
evening max el	3242 Nov 04 18:29	7° ≯ 25'48	24°49'13	minimum elong	3243 Sep 03 10:47	11° Mp 48'43	1°44'51
retrograde	3242 Nov 16 10:01	14° √ 12'11		max. Earth dist.	3243 Sep 08 15:27	22° Mp 04'24	1.36444 AU
evening set	3242 Nov 22 00:24	11° ≯ ′51'43		evening rise	3243 Sep 12 13:29	29° m 26'13	
min. Earth dist.	3242 Nov 26 14:11	6° ≯ 41'12	0.67487 AU		3243 Sep 12 20:52	0∘ ⊽	
asc. node	3242 Nov 27 03:03	5° ₹ 58'42		desc. node	3243 Sep 24 12:48	19° ≙ 50'31	
inferior conj	3242 Nov 27 12:31	5° ₹ 27'19	0°08'07		3243 Oct 01 05:59	0°M₊	
minimum elong	3242 Nov 27 12:19	5° ∡ ¹27'59	0°08'02	evening max el	3243 Oct 18 06:50	21° M 07'47	25°58'51
transit middle	3242 Nov 27 12:19	5° ∡ ¹27'59	0°08'02	retrograde	3243 Oct 30 18:48	28° ™ 13'51	
transit begin	3242 Nov 27 09:56	5° ∡ ³35'55		evening set	3243 Nov 05 23:10	25°M40'21	
transit end	3242 Nov 27 14:43	5° ҂ ¹20'03		min. Earth dist.	3243 Nov 10 05:37	21°M05'14	0.66762 AU
	3242 Dec 02 06:59	30°RM₊		inferior conj	3243 Nov 11 15:01	19° M 20'42	-0°48'54
morning rise	3242 Dec 03 00:22	29°M26'46		minimum elong	3243 Nov 11 16:19	19° M 16'39	0°48'21
direct	3242 Dec 06 15:26	28°M₁0′59		asc. node	3243 Nov 14 00:03	16° ™ 29'24	
	3242 Dec 11 08:05	0° ∡ ¹		morning rise	3243 Nov 17 09:50	13° ™ 29'05	
morning max el	3242 Dec 14 03:05	2° ∡ ¹25'55	19°52'07	direct	3243 Nov 20 14:05	12°MJ31'12	
-	3243 Jan 03 03:03	0°రె		morning max el	3243 Nov 27 10:52	16° ™ 19'49	18°56'49
desc. node	3243 Jan 03 15:03	0°る45'40		•	3243 Dec 07 19:09	0° ∡ ¹	
morning set	3243 Jan 09 06:15	9° る 24'09		morning set	3243 Dec 19 14:32	18° ∡ 17'15	
max. Earth dist.	3243 Jan 20 18:05	27° る 24'09	1.44141 AU	desc. node	3243 Dec 21 12:04	21° ₹ 15'31	
	3243 Jan 22 09:07	0° ≈			3243 Dec 27 02:04	0°る	
	32.3 tun 22 03.07			max. Earth dist.	3244 Jan 03 10:38		1.45036 AU
superior conj	3243 Jan 25 18:36	5°≈28'20	-1°57'42	Darm dist.	52tail 05 10.50	93217	1
minimum elong	3243 Jan 25 12:47	5°≈04'45		superior conj	3244 Jan 05 04:12	14° ට 15'50	-1°29'18
evening rise	3243 Jan 23 12.47 3243 Feb 08 03:01	3 ≈04 43 27°≈44'31	1 3 44	minimum elong	3244 Jan 04 19:04	14 3 13 30	
evening lise		2/°≈4431 0°) €		minimum ciong			1 40 43
asa nada	3243 Feb 09 10:45			avanina rias	3244 Jan 15 01:37	0° ≈ 8° ≈ 27'34	
asc. node	3243 Feb 23 02:21	21° ¥ 57'27	10012144	evening rise	3244 Jan 20 07:12		
evening max el	3243 Feb 26 07:53	25° ¥ 45′22	18°13'44	1	3244 Feb 02 18:19	0°) (
retrograde	3243 Mar 04 18:19	29° 升 10'54		asc. node	3244 Feb 09 23:22	9°) €20'00	10020120
evening set	3243 Mar 07 16:19	28°\(\frac{1}{2}26'23	2020/22	evening max el	3244 Feb 09 19:36	9°) 10'29	18°38'29
inferior conj	3243 Mar 13 18:16	23°) €08'01	3°38'32	retrograde	3244 Feb 16 10:16	12° ¥ 50′13	

	2244 5 1 10 14 12	110\(5010.4			2245 X 26 20 24	250 41124	
evening set	3244 Feb 19 14:12	11°) € 53'34		asc. node	3245 Jan 26 20:24	25° ≈ 41'24	
inferior conj	3244 Feb 25 08:00	6° ∺ 17'01		retrograde	3245 Jan 30 06:40	26° ≈ 44'13	
minimum elong	3244 Feb 25 06:53	6° ∺ 20′23	3°35'17	evening set	3245 Feb 02 17:27	25° ≈ 34'36	
min. Earth dist.	3244 Feb 27 06:41	3° ¥ 56'30	0.64987 AU	inferior conj	3245 Feb 08 05:58	19° ≈ 42′05	3°18'07
morning rise	3244 Mar 01 23:07	0°) €06'32		minimum elong	3245 Feb 08 03:52	19° ≈ 48'52	3°17'45
	3244 Mar 02 02:12	30°R≈		min. Earth dist.	3245 Feb 09 13:31	17° ≈ 59'59	0.66326 AU
direct	3244 Mar 08 16:20	27°≈15'34		morning rise	3245 Feb 13 14:01	13° ≈ 28'57	
	3244 Mar 16 02:25	0° ∀		direct	3245 Feb 19 20:53	10° ≈ 41'57	
desc. node	3244 Mar 18 11:18	1°){ 47'20		morning max el	3245 Mar 04 10:40	18° ≈ 09'54	26°04'47
morning max el	3244 Mar 22 00:56	5°) €04'22	27°08'33	desc. node	3245 Mar 05 08:19	19° ≈ 05'37	
morning max ci	3244 Apr 10 00:33	0°Υ	27 00 33	dese. Hode	3245 Mar 14 10:01	0° ∺	
	•	28° Υ 55'11				0	
morning set	3244 Apr 26 14:56				3245 Apr 03 00:28		
	3244 Apr 27 04:17	0°8		morning set	3245 Apr 09 15:04	11° Y '48'26	
max. Earth dist.	3244 May 01 04:27	7° 8 59'30	1.33864 AU	max. Earth dist.	3245 Apr 13 13:30	19° Ƴ 16'11	1.35351 AU
	224434 24 22 24	1501 4000	0001110		2245 4 40 45 50	2000002242	0050150
superior conj	3244 May 04 22:01	15° 8 43'26		superior conj	3245 Apr 18 17:50	29° Y ′33'42	
minimum elong	3244 May 04 23:37	15° 8 51'53	0°30'52	minimum elong	3245 Apr 18 20:57	29° Ƴ 49'37	0°59'17
asc. node	3244 May 07 22:39	22° 8 07'49			3245 Apr 18 23:00	9° 8	
	3244 May 11 15:43	Π $^{\circ}0$		asc. node	3245 Apr 24 19:42	12° 8 05'14	
evening rise	3244 May 12 06:07	1° Ⅱ 15'37		evening rise	3245 Apr 26 13:39	15° 8 41'31	
	3244 May 28 17:46	0ಂಣ			3245 May 03 21:55	Π°	
evening max el	3244 Jun 01 17:46	4° 5 28'06	21°47'19	evening max el	3245 May 14 21:24	15° Ⅱ 28'45	20°24'47
retrograde	3244 Jun 14 05:57	10°538'12	21 1, 1,	retrograde	3245 May 25 19:24	20° I I47'53	20 2
desc. node	3244 Jun 14 10:32	10°538'07		evening set	3245 May 27 19:44	20° I I37'46	
				•			
evening set	3244 Jun 16 20:18	10°523'02		desc. node	3245 Jun 01 07:33	19° Ⅱ 10'57	
inferior conj	3244 Jun 26 05:27	6° © 20'24		inferior conj	3245 Jun 05 23:52	16° Ⅲ 39'45	
minimum elong	3244 Jun 25 21:21	6° ॐ 31'44	3°14'28	minimum elong	3245 Jun 05 19:59	16° Ⅱ 45′26	
min. Earth dist.	3244 Jun 25 21:12	6° ॐ 31'56	0.54935 AU	min. Earth dist.	3245 Jun 07 09:32	15° Ⅱ 50'42	0.55034 AU
morning rise	3244 Jul 04 23:42	2° 5 27'31		morning rise	3245 Jun 14 19:09	12° Ⅲ 27'31	
direct	3244 Jul 08 04:34	2° © 05'00		direct	3245 Jun 18 14:51	11° Ⅲ 56′01	
morning max el	3244 Jul 20 07:56	7° 5 346'51	21°48'41	morning max el	3245 Jul 02 01:30	18° Ⅲ 27'48	23°29'43
asc. node	3244 Aug 03 21:52	28°\$27'06		•	3245 Jul 11 13:06	0°©	
	3244 Aug 04 17:39	$0^{\circ}\Omega$		asc. node	3245 Jul 21 18:56	17° 9 52'45	
morning set	3244 Aug 10 04:58	10° Ω 57'21		morning set	3245 Jul 25 16:23	25°951'52	
morning set	3244 Aug 10 04.38	10 663/21		morning set	3245 Jul 27 15:03	0°Ω	
aumarian aani	2244 Avg 17 10:51	26° Ω 14'10	1°41'51		3243 Jul 27 13.03	0 86	
superior conj	3244 Aug 17 10:51				2245 4 01 17 00	100 0 50120	1022147
minimum elong	3244 Aug 17 09:39	26° Ω 07'54	1°41'48	superior conj	3245 Aug 01 17:09	10° Ω 58′29	1°32'47
	3244 Aug 19 06:15	0°Щ		minimum elong	3245 Aug 01 15:08	10° Ω 47'33	1°32'35
max. Earth dist.	3244 Aug 21 04:54	3° Mp 58'53	1.34775 AU	max. Earth dist.	3245 Aug 04 03:23	16° Ω 09'17	1.33494 AU
evening rise	3244 Aug 25 15:38	12°Mp46'21		evening rise	3245 Aug 09 06:30	26° Ω 43'36	
	3244 Sep 04 05:08	0∘ ⊽			3245 Aug 10 22:16	0° m)	
desc. node	3244 Sep 10 09:50	9° £ 57'29		desc. node	3245 Aug 28 06:52	29° m 38'35	
	3244 Sep 25 07:06	0°M			3245 Aug 28 12:44	0∘ ⊽	
evening max el	3244 Sep 29 19:19	4°M44'23	26°52'14	evening max el	3245 Sep 12 07:06	18° ≏ 05'27	27°22'07
retrograde	3244 Oct 12 22:10	12°M00'13		retrograde	3245 Sep 25 19:48	25° ≏ 23'39	
evening set	3244 Oct 19 15:11	9°M18'46		evening set	3245 Oct 02 21:52	22° Ω 42'34	
min. Earth dist.	3244 Oct 23 14:44	5°M19'56	0.65687 AU	min. Earth dist.	3245 Oct 06 15:27	19° ⊆ 18'30	0.64263 AU
inferior conj	3244 Oct 25 12:00	3°M08'26		inferior conj	3245 Oct 09 01:10	16° 2 45'54	
				-			
minimum elong	3244 Oct 25 15:00	2°M59'44	1°47'24	minimum elong	3245 Oct 09 05:47	16° △ 33'40	2°47'06
	3244 Oct 28 08:44	30° ₹ Ω		morning rise	3245 Oct 15 14:52	11° ≏ 21'24	
asc. node	3244 Oct 30 21:05	27° ≏ 55'29		asc. node	3245 Oct 17 18:08	10° ≏ 49'11	
morning rise	3244 Oct 31 15:34	27° £ 28'50		direct	3245 Oct 18 04:10	10° ≏ 48'17	
direct	3244 Nov 03 11:10	26° ≏ 45'12		morning max el	3245 Oct 24 16:27	14° ≙ 14'10	17°55'36
	3244 Nov 09 16:57	0° M,			3245 Nov 04 17:19	0° M	
morning max el	3244 Nov 10 00:13	0°M17'52	18°17'44	morning set	3245 Nov 10 18:58	10°M16'18	
morning set	3244 Nov 29 02:39	28°M35'34		•	3245 Nov 22 14:44	0° ∡ ¹	
8 - 11	3244 Nov 29 23:28	0° ⊼					
desc. node	3244 Dec 07 09:06	11° х 54'44		superior conj	3245 Nov 23 22:03	2° × 107'01	0°02'20
dese. Houe	J277 DCC 07 07.00	11 × J4 44				2°×10701 2°×108'08	0°02'18
aumonia '	2244 D 14 06 10	220.7/4011	0045125	minimum elong	3245 Nov 23 22:19		0 02 10
superior conj	3244 Dec 14 06:19	22° 🖈 49'16		behind sun begin	3245 Nov 23 12:14	1° 🗷 27'16	
minimum elong	3244 Dec 14 00:32	22° ₹ 26′29		behind sun end	3245 Nov 24 08:25	2° ∡ ¹48'56	
max. Earth dist.	3244 Dec 16 06:03	25° ₹ 56'57	1.45195 AU	desc. node	3245 Nov 24 06:10	2° ∡ ³39'53	
	3244 Dec 18 20:03	0°ප		max. Earth dist.	3245 Nov 29 00:38	10° ∡ 17'50	1.44614 AU
evening rise	3244 Dec 30 12:28	18° る 16'31		evening rise	3245 Dec 10 01:00	27° ∡ ¹28'54	
	3245 Jan 07 00:38	0° ≈			3245 Dec 11 16:21	8°0	
greatest brilliancy	3245 Jan 10 18:51	5° ≈ 48'09	-0.7m		3246 Jan 01 02:42	0° ≈	
evening max el	3245 Jan 23 04:01	22° ≈ 39'38	19°20'25	evening max el	3246 Jan 06 07:35	6°≈10'27	20°17'42
cvening max er							

•	2016 7 12 15 26	100 45100			224637 10 11 00	60 3 4110 6	
asc. node	3246 Jan 13 17:26	10° ≈ 47′02		evening rise	3246 Nov 19 11:08	6° ∡ '41'26	
retrograde	3246 Jan 14 04:44	10° ≈ 48′16			3246 Dec 05 00:06	0°₹	
evening set	3246 Jan 17 23:51	9° ≈ 24'34		evening max el	3246 Dec 20 05:38	19° る 42'45	21°27'19
inferior conj	3246 Jan 23 09:22	3°≈18'51	2°49'59	retrograde	3246 Dec 29 02:18	24° る 58'38	
minimum elong	3246 Jan 23 06:51	3° ≈ 27'22		asc. node	3246 Dec 31 14:28	24° පි 24'15	
	3246 Jan 24 03:16				3247 Jan 02 07:32	23° る 19'39	
min. Earth dist.			0.67251 AU	evening set			
	3246 Jan 25 21:29	30°Rる		inferior conj	3247 Jan 07 15:54	17° る 03'56	
morning rise	3246 Jan 28 13:38	27° る 05'08		minimum elong	3247 Jan 07 13:29	17° る 12'20	2°12'23
direct	3246 Feb 03 07:01	24° る 32'03		min. Earth dist.	3247 Jan 07 21:37	16° る 44'10	0.67780 AU
	3246 Feb 13 08:33	0° ≈		morning rise	3247 Jan 12 19:14	10° る 51'29	
morning max el	3246 Feb 14 19:23	1°≈24'52	24°43'24	direct	3247 Jan 17 21:54	8° ට 38'34	
desc. node	3246 Feb 20 05:22	7°≈28'31	24 43 24		3247 Jan 28 04:21	14° る 44'51	23°14'48
desc. node				morning max el			23 14 46
	3246 Mar 08 10:37	0° ∀		desc. node	3247 Feb 07 02:24	26° る 37'30	
morning set	3246 Mar 22 20:51	23°) (44′27			3247 Feb 09 14:06	0°≈	
	3246 Mar 26 08:25	$0^{\circ}\mathbf{\Upsilon}$			3247 Mar 01 09:41	0° ∀	
max. Earth dist.	3246 Mar 26 12:10	0° Ƴ 17'11	1.37251 AU	morning set	3247 Mar 04 02:06	4° 升 27′04	
				max. Earth dist.	3247 Mar 08 06:56	11° ¥ 37′20	1.39399 AU
superior conj	3246 Apr 02 03:15	12° Ƴ 49'11	1°26'57				
	-	13° Y 10'11			2247.) 4 15 22 20	2501/20121	1040141
minimum elong	3246 Apr 02 07:34		1°26'21	superior conj	3247 Mar 15 22:20	25° ∺ 20′21	
evening rise	3246 Apr 10 15:43	29° Ƴ 45'41		minimum elong	3247 Mar 16 02:46	25°) 40′54	1°49'17
	3246 Apr 10 18:35	9° 8			3247 Mar 18 10:10	0 ° Υ	
asc. node	3246 Apr 11 16:46	1° 8 50'18		evening rise	3247 Mar 25 09:26	13° Y 20′56	
evening max el	3246 Apr 27 13:08	27° 8 09'53	19°20'30	asc. node	3247 Mar 29 13:49	21° Y 18'16	
e vennig man er	3246 May 01 04:04	0°II	1, 2000	use. Houe	3247 Apr 03 12:07	0°8	
. 1					•	9° 8 29'20	10027110
retrograde	3246 May 06 18:05	1° Ⅱ 37'57		evening max el	3247 Apr 10 14:59	. •	18°36'18
evening set	3246 May 08 18:44	1° Ⅱ 25'54		retrograde	3247 Apr 18 10:30	13° 8 19'16	
	3246 May 12 18:24	30° ₹8		evening set	3247 Apr 20 17:14	13° 8 00'49	
inferior conj	3246 May 17 06:16	27° 8 18'11	0°33'32	inferior conj	3247 Apr 28 08:55	8° 8 34'42	2°04'35
minimum elong	3246 May 17 07:40	27° 8 15'53	0°33'01	minimum elong	3247 Apr 28 12:39	8° 8 27'32	2°03'30
desc. node	3246 May 19 04:36	26° 8 01'48		min. Earth dist.	3247 May 01 18:12	5° 8 59'48	0.57835 AU
min. Earth dist.	3246 May 20 00:14	25° 8 30'06	0.56075 AU	morning rise	3247 May 06 04:55	3° 8 15'21	0.07000110
	•		0.30073 AO	Č	•	_	
morning rise	3246 May 25 17:36	22° 8 32'19		desc. node	3247 May 06 01:37	3° 8 19'19	
direct	3246 May 30 11:52	21° 8 40'25		direct	3247 May 11 23:18	1° 8 51'41	
morning max el	3246 Jun 13 15:41	28° 8 52'16	25°10'44	morning max el	3247 May 26 08:15	9° 8 28'26	26°35'55
	3246 Jun 14 19:08	$\Pi^{\circ}0$			3247 Jun 10 23:03	Π° 0	
	3246 Jul 04 20:56	0° ©		morning set	3247 Jun 24 14:37	25° Ⅱ 35'23	
asc. node	3246 Jul 08 16:00	7° © 37'01		asc. node	3247 Jun 25 13:04	27° Ⅱ 34'14	
		10°9546'13		asc. node	3247 Jun 26 16:17	0°95	
morning set	3246 Jul 10 04:08	10-2046-13			324/Jun 20 10:1/	0-99	
	2246 7 1 17 22 22	252051151	101010		2247 7 1 21 14 44	10001010	1000104
superior conj	3246 Jul 17 03:06	25° © 51'54		superior conj	3247 Jul 01 14:44	10° © 48'03	1°00'04
minimum elong	3246 Jul 17 00:45	25° © 39'00	1°18'15	minimum elong	3247 Jul 01 12:32	10° © 35'55	0°59'39
max. Earth dist.	3246 Jul 18 09:26	28° © 37'25	1.32626 AU	max. Earth dist.	3247 Jul 01 20:12	11° © 18'14	1.32167 AU
	3246 Jul 19 00:38	$0^{\circ}\Omega$		evening rise	3247 Jul 08 12:25	25°545'43	
evening rise	3246 Jul 24 06:22	11° Ω 06'17		Č	3247 Jul 10 13:33	$0^{\circ}\Omega$	
e vennig nise	3246 Aug 03 04:04	0° my			3247 Jul 27 19:56	0° m)	
	=						
desc. node	3246 Aug 15 03:54	18° m 42'00		desc. node	3247 Aug 02 00:55	6° m 52'19	
	3246 Aug 24 16:18	0∘ ⊽		evening max el	3247 Aug 07 20:18	13° My 10'20	26°50'01
evening max el	3246 Aug 25 16:14	0° ჲ 58'04	27°22'37	retrograde	3247 Aug 21 18:39	20° m, 22'05	
retrograde	3246 Sep 08 11:05	8° ≏ 13'59		evening set	3247 Aug 28 16:25	18° m) 18'29	
evening set	3246 Sep 15 15:45	5° £ 45'06		min. Earth dist.	3247 Sep 01 10:25	15° m 40'32	0.60507 AU
min. Earth dist.	3246 Sep 19 06:11		0.62505 AU	inferior conj	3247 Sep 04 15:54	12° m) 59'57	
inferior conj	3246 Sep 22 03:35	0° Ω 05'56		minimum elong	3247 Sep 04 21:07	12° m) 49'06	
·	•			_	•	-	4 32 30
minimum elong	3246 Sep 22 09:15	29° m 52'32	3°44'12	morning rise	3247 Sep 12 03:43	8° M p 14'57	
	3246 Sep 22 06:05	30°R Mp		direct	3247 Sep 14 12:55	7° m 53'05	
morning rise	3246 Sep 29 04:19	24° m 59'44		asc. node	3247 Sep 21 12:15	11° m 09'06	
direct	3246 Oct 01 14:03	24° m 33'42		morning max el	3247 Sep 21 21:14	11° m 30'20	18°06'08
asc. node	3246 Oct 04 15:12	25° m 16'44		-	3247 Oct 04 03:57	0∘ ত	
morning max el	3246 Oct 08 08:31	28° mp 01'04	17°51'21	morning set	3247 Oct 07 16:41	6° £ 32'54	
morning max ci			11 2121	morning set	52-7 Oct 07 10.41	0 - 32 34	
	3246 Oct 10 04:04	0° ⊽			2247.0 : 17.10.10	240 2 2012 1	101496
morning set	3246 Oct 24 09:43	23° Ω 01'24		superior conj	3247 Oct 17 10:46	24° ₽ 30'21	1°14'36
	3246 Oct 28 07:50	0° M		minimum elong	3247 Oct 17 14:56	24° ≏ 49'00	1°14'07
					3247 Oct 20 13:28	0° M .	
superior conj	3246 Nov 04 15:24	12° M 40'42	0°43'56	max. Earth dist.	3247 Oct 25 02:08	7° IL 44'46	1.41633 AU
minimum elong	3246 Nov 04 19:12	12°M56'49	0°43'25	desc. node	3247 Oct 29 00:12	14°ML13'27	
desc. node	3246 Nov 11 03:11	23°M27'10	3 .5 25	evening rise	3247 Oct 29 00:12 3247 Oct 30 10:55	16°MJ33'57	
			1 42277 433	evening rise			
max. Earth dist.	3246 Nov 11 15:42	24°M17'59	1.43375 AU		3247 Nov 08 01:31	0° ⊼	
	3246 Nov 15 04:57	0° ∡ 7			3247 Nov 29 21:47	0°ಕ	

evening max el	3247 Dec 02 22:43	3°る17'07	22044154		3248 Oct 31 15:13	0° ∡ 7	
•	3247 Dec 02 22:43 3247 Dec 12 21:38	9° る 11'42	22 44 34	avaning may al	3248 Nov 14 12:22	16° ₹ 55'01	24°04'44
retrograde		9 311 42 7° 3 16'21		evening max el		23° x ² 33'01	24 04 44
evening set	3247 Dec 17 14:48			retrograde	3248 Nov 25 13:35		
asc. node	3247 Dec 18 11:30	6° る 29'38	1000110	evening set	3248 Nov 30 20:07	21°×12'40	
inferior conj	3247 Dec 22 23:36	0°る54'11	1°29'10	asc. node	3248 Dec 04 08:31	17° 🗷 21'47	0.65550.433
minimum elong	3247 Dec 22 21:43	1°る00'41	1°28'27	min. Earth dist.	3248 Dec 05 14:26	15° ₹ '42'48	0.67758 AU
min. Earth dist.	3247 Dec 22 18:06	1°る13'11	0.67944 AU	inferior conj	3248 Dec 06 06:40	14° ∡ °47′54	0°39'13
	3247 Dec 23 15:19	30°R.✓		minimum elong	3248 Dec 06 05:45	14° ₹ 51'02	0°38'49
morning rise	3247 Dec 28 04:30	24° ₹ 44'52		morning rise	3248 Dec 11 15:24	8° ⋌ ¹43'43	
direct	3248 Jan 01 16:28	22° ₹ 54'47		direct	3248 Dec 15 13:39	7° ∡ 16′08	
morning max el	3248 Jan 10 17:06	28° ∡ 11'54	21°48'14	morning max el	3248 Dec 23 12:54	11° ∡ 750'31	20°30'47
	3248 Jan 12 10:06	0°る			3249 Jan 06 12:13	0°る	
desc. node	3248 Jan 24 23:25	16° る 19'00		desc. node	3249 Jan 10 20:27	6° る 24'26	
	3248 Feb 03 06:14	0° ≈		morning set	3249 Jan 21 02:56	22° る 02'41	
morning set	3248 Feb 12 02:17	13° ≈ 45'46			3249 Jan 26 04:52	0° ≈	
max. Earth dist.	3248 Feb 18 05:49	23° ≈ 47'15	1.41527 AU	max. Earth dist.	3249 Jan 30 12:24	6°≈53'22	1.43341 AU
	3248 Feb 21 22:18	0° ∀					
				superior conj	3249 Feb 05 21:25	17° ≈ 20'06	
superior conj	3248 Feb 25 22:01	6° ¥ 54'14		minimum elong	3249 Feb 05 19:01	17° ≈ 10′08	2°05'05
minimum elong	3248 Feb 26 00:27	7° ₩ 04'54	2°04'02		3249 Feb 13 08:21	0° ∀	
evening rise	3248 Mar 07 15:11	26° 升 18′01		evening rise	3249 Feb 18 04:54	8° ∺ 28'39	
	3248 Mar 09 15:24	0 ° $\mathbf{\Upsilon}$		asc. node	3249 Mar 02 07:51	28°) 55′00	
asc. node	3248 Mar 15 10:51	10° Y 22′20			3249 Mar 03 01:42	0 ° Υ	
evening max el	3248 Mar 23 23:34	22° Ƴ 17'36	18°12'12	evening max el	3249 Mar 07 11:34	5° Y 25'43	18°07'39
retrograde	3248 Mar 30 21:34	25° Ƴ 46′18		retrograde	3249 Mar 13 23:29	8° Ƴ 48'46	
evening set	3248 Apr 02 10:41	25° Ƴ 18'46		evening set	3249 Mar 16 18:14	8° Y 10'46	
inferior conj	3248 Apr 09 08:39	20° Ƴ 31'37	3°02'51	inferior conj	3249 Mar 23 02:22	3° Y 03'10	3°32'11
minimum elong	3248 Apr 09 11:52	20° Y 24'24	3°02'14	minimum elong	3249 Mar 23 03:50	2° Y 59'22	3°32'03
min. Earth dist.	3248 Apr 12 17:27	17° Ƴ 31'55	0.59955 AU	min. Earth dist.	3249 Mar 26 00:48	0° Y 03′23	0.62100 AU
morning rise	3248 Apr 16 10:43	14° Ƴ 47'18			3249 Mar 26 02:11	30° Ŗ ₩	
desc. node	3248 Apr 21 22:38	12° Ƴ 50'53		morning rise	3249 Mar 29 12:01	27°) €03'23	
direct	3248 Apr 22 23:06	12° Ƴ 48'00		direct	3249 Apr 05 08:59	24°) €33'57	
morning max el	3248 May 07 06:46	20° Ƴ 38'33	27°31'51	desc. node	3249 Apr 08 19:38	25°) €07'59	
	3248 May 15 08:25	0° ႘			3249 Apr 16 18:27	$0^{\circ}\mathbf{\Upsilon}$	
	3248 Jun 02 19:34	$\Pi^{\circ}0$		morning max el	3249 Apr 19 11:30	2° Y 31'15	27°51'07
morning set	3248 Jun 07 22:08	10° Ⅱ 13'53		Č	3249 May 09 17:28	0°႘	
asc. node	3248 Jun 11 10:08	17° Ⅱ 39'26		morning set	3249 May 23 00:38	24° 8 35'00	
max. Earth dist.	3248 Jun 14 08:05	24° Ⅱ 00'57	1.32104 AU	Č	3249 May 25 15:30	0°II	
				max. Earth dist.	3249 May 28 17:05		1.32444 AU
superior conj	3248 Jun 15 02:17	25° Ⅱ 41′02	0°37'52	asc. node	3249 May 29 07:09	7° Ⅱ 47'54	
minimum elong	3248 Jun 15 00:42	25° I I32'15					
	3248 Jun 17 01:19	0ಂತಿ		superior conj	3249 May 30 12:03	10° Ⅱ 24'51	0°12'39
evening rise	3248 Jun 21 22:17	10°534'20		minimum elong	3249 May 30 11:28	10° Ⅲ 21'38	0°12'32
* · · · · · · · · · · · · · · · · · · ·	3248 Jul 01 20:41	0°N		behind sun begin	3249 May 30 08:16	10° Ⅱ 04'14	
desc. node	3248 Jul 18 21:56	23° Ω 48'01		behind sun end	3249 May 30 14:39	10° Ⅲ 39'01	
evening max el	3248 Jul 19 17:09	24° Ω 34'51	25°45'33	evening rise	3249 Jun 06 09:56	25° Ⅱ 24'53	
	3248 Jul 27 01:32	0° m)			3249 Jun 08 14:24	0.ಪ	
retrograde	3248 Aug 02 16:44	1° m/42'30			3249 Jun 26 12:13	$0^{\circ}\Omega$	
evening set	3248 Aug 08 19:04	0° m 14'32		evening max el	3249 Jul 01 07:30	5° Ω 17'02	24°17'38
* · · · · · · · · · · · · · · · · · · ·	3248 Aug 09 07:04	30°R Ω		desc. node	3249 Jul 05 18:56	8° Ω 59'01	
min. Earth dist.	3248 Aug 13 05:20		0.58446 AU	retrograde	3249 Jul 15 03:41	12° Ω 16'08	
inferior conj	3248 Aug 16 10:35	25° Ω 18'08		evening set	3249 Jul 19 21:49	11° Ω 25'43	
minimum elong	3248 Aug 16 12:47	25°Ω14'10		min. Earth dist.	3249 Jul 25 18:14	8° Ω 30'13	0.56597 AU
morning rise	3248 Aug 24 08:43	20° Ω 56'14	3 02 17	inferior conj	3249 Jul 28 09:06	6° Ω 51'36	
direct	3248 Aug 26 20:27	20° £ 36'22		minimum elong	3249 Jul 28 05:44	6° Ω 56'54	
morning max el	3248 Sep 04 03:21	24° £ 33'14	18°41'22	morning rise	3249 Aug 05 16:20	2° Ω 50'25	7 30 70
asc. node	3248 Sep 07 09:18	28° Ω 11'41	10 41 22	direct	3249 Aug 08 08:48	2° Ω 31'12	
450. HOUC	3248 Sep 07 09:18 3248 Sep 08 17:29	0°M)		morning max el	3249 Aug 17 23:52	6° Ω 59'55	19°38'05
morning set	3248 Sep 08 17.29 3248 Sep 20 11:03	رابات 20° الله 37'25		asc. node	3249 Aug 25 06:21	16° Ω 09'00	17 30 03
morning set	3248 Sep 25 06:38	20 الله 1/22 0° ت		asc. nouc	3249 Sep 02 00:02	0°m/	
	3240 SEP 23 00.38	v ==		morning set	3249 Sep 02 00:02 3249 Sep 04 13:11	บ" หมู่ 5° ไว 04'09	
				morning set	3243 Sep 04 13.11	אוו <i>ב</i> 04 טעוו כ	
superior coni	3248 San 20 02-22	7° 0 22151	1033'55				
superior conj	3248 Sep 29 03:22	7° £ 22'54		superior coni	32/10 San 12 11:20	21°mn1!51	10/13/18
minimum elong	3248 Sep 29 06:13	7° ≙ 36'19	1°33'42	superior conj	3249 Sep 12 11:39	21° Mp 01'51	
minimum elong max. Earth dist.	3248 Sep 29 06:13 3248 Oct 06 08:07	7° £ 36'19 20° £ 29'56		superior conj minimum elong	3249 Sep 12 12:44	21°Mp07'12	
minimum elong	3248 Sep 29 06:13 3248 Oct 06 08:07 3248 Oct 10 09:14	7° ೨ 36'19 20° ೨ 29'56 27° ೨ 28'45	1°33'42	minimum elong	3249 Sep 12 12:44 3249 Sep 17 03:01	21°№07'12 0° <u>മ</u>	1°43'16
minimum elong max. Earth dist.	3248 Sep 29 06:13 3248 Oct 06 08:07	7° £ 36'19 20° £ 29'56	1°33'42		3249 Sep 12 12:44	21°Mp07'12	

desc. node	3249 Oct 01 18:16	25° £ 27'55		superior conj	3250 Aug 27 07:07	5° m) 14'03	1°44'24
desc. Hode	3249 Oct 01 18:10 3249 Oct 04 15:30	0°M		minimum elong	3250 Aug 27 06:37	5° Mp 11'33	1°44'23
	3249 Oct 04 13:30 3249 Oct 27 10:13	0° ⊼ 7		max. Earth dist.	3250 Aug 27 00:57 3250 Aug 31 20:51	14° M) 26'46	1.35686 AU
ovanina may al	3249 Oct 27 10:13 3249 Oct 28 00:32		25°20'14	evening rise	3250 Aug 31 20:31 3250 Sep 04 23:37	22° Mp 21'15	1.33000 AU
evening max el	3249 Nov 09 01:18	7° 🗷 33'51	23 20 14	evening rise	•	0° ت	
retrograde	3249 Nov 14 21:49	5° ₹ '05'06		desc. node	3250 Sep 09 04:16 3250 Sep 18 15:17	0 ≗ 15° £ 46'00	
evening set		30°RM		desc. node		0°M	
min. Earth dist.	3249 Nov 19 11:19 3249 Nov 19 08:17	30 KIIL 0° ₹109'45	0.67222 AU	avanina may al	3250 Sep 28 09:47	14°ML15'37	26°23'59
	3249 Nov 19 08.17 3249 Nov 20 11:21	28°M42'05		evening max el	3250 Oct 10 12:47 3250 Oct 23 08:05	21°M27'51	20 23 39
inferior conj				retrograde			
minimum elong	3249 Nov 20 11:45	28°M40'48		evening set	3250 Oct 29 18:00	18°M50'02	0.66242.411
transit middle	3249 Nov 20 11:45	28°M,40'48	0°15'27	min. Earth dist.	3250 Nov 02 21:23	14°M30'16	0.66343 AU
transit begin	3249 Nov 20 10:55	28°M43'30		inferior conj	3250 Nov 04 11:46	12°M33'29	
transit end	3249 Nov 20 12:35	28°M38'06		minimum elong	3250 Nov 04 13:46	12°M27'23	1°13'12
asc. node	3249 Nov 21 05:32	27°M43'35		asc. node	3250 Nov 08 02:35	8°M31'52	
morning rise	3249 Nov 26 01:58	22°M45'16		morning rise	3250 Nov 10 10:07	6°M46'36	
direct	3249 Nov 29 12:07	21°M37'42		direct	3250 Nov 13 10:17	5°M55'24	
morning max el	3249 Dec 06 16:39	25°M40'05	19°26'43	morning max el	3250 Nov 20 03:07	9° M 36′28	18°38'08
	3249 Dec 10 11:33	0° ∡ ¹			3250 Dec 04 15:42	0° ∡	
greatest brilliancy	3249 Dec 19 23:59	13° ∡ ¹26'51	-0.7m	morning set	3250 Dec 10 20:22	9° ∡ ¹49'04	
desc. node	3249 Dec 28 17:30	26° ∡ ¹46'57		desc. node	3250 Dec 15 14:32	17° ∡ ¹21'15	
	3249 Dec 30 19:28	0°ಕ			3250 Dec 23 15:18	0° ප	
morning set	3249 Dec 31 01:12	0° る 22'12					
max. Earth dist.	3250 Jan 13 01:46	20° る 43'03	1.44606 AU	superior conj	3250 Dec 26 22:58	5° る 12'36	-1°12'04
				minimum elong	3250 Dec 26 14:30	4°る39'23	1°11'05
superior conj	3250 Jan 16 19:02	26° පි 37'45	-1°47'58	max. Earth dist.	3250 Dec 26 19:21	4° ප 58'26	1.45189 AU
minimum elong	3250 Jan 16 11:08	26° පි 06'12	1°47'23	evening rise	3251 Jan 11 16:30	0° ≈ 04'12	
	3250 Jan 18 21:29	0° ≈			3251 Jan 11 15:27	0° ≈	
evening rise	3250 Jan 30 22:20	19° ≈ 45′23		greatest brilliancy	3251 Jan 19 22:19	13° ≈ 13'13	-0.8m
	3250 Feb 06 01:29	0°) €			3251 Jan 31 10:34	0°) €	
asc. node	3250 Feb 17 04:51	16°) 46′54		evening max el	3251 Feb 02 10:41	2° 升 14'17	18°54'21
evening max el	3250 Feb 19 00:07	18° ¥ 46'42	18°22'01	asc. node	3251 Feb 04 01:52	3°) 45′34	
retrograde	3250 Feb 25 11:31	22° ₩ 17'15		retrograde	3251 Feb 09 05:43	6° ₩ 03'33	
evening set	3250 Feb 28 11:51	21° ¥ 27'49		evening set	3251 Feb 12 12:19	5° ₩ 01'42	
inferior conj	3250 Mar 06 09:57	16° ₩ 01'26	3°39'11	C	3251 Feb 17 14:09	30°R ≈	
minimum elong	3250 Mar 06 09:39	16°) €02'16	3°39'10	inferior conj	3251 Feb 18 03:35	29° ≈ 18'19	3°29'32
min. Earth dist.	3250 Mar 08 17:42	13°) €22'08	0.64028 AU	minimum elong	3251 Feb 18 01:59	29° ≈ 23'18	3°29'21
morning rise	3250 Mar 12 06:42	9° ₩ 53'18		min. Earth dist.	3251 Feb 19 19:48	27°≈13'05	0.65606 AU
direct	3250 Mar 19 03:20	7° ₩ 05'56		morning rise	3251 Feb 23 15:15	23°≈06'18	
desc. node	3250 Mar 26 16:40	9°) 49'28		direct	3251 Mar 02 04:41	20°≈15'12	
morning max el	3250 Apr 01 20:18	15° ∺ 01'52	27°33'29	desc. node	3251 Mar 13 13:43	26°≈19'33	
morning max er	3250 Apr 14 01:36	0°Υ	21 33 27	morning max el	3251 Mar 15 15:45 3251 Mar 15 06:08		26°44'09
	3250 May 02 09:15	0°8		morning max or	3251 Mar 17 04:49	0° \	20 1109
morning set	3250 May 06 19:42	8° 8 30'58			3251 Apr 07 19:04	0° Υ	
max. Earth dist.	3250 May 11 19:06		1.33211 AU	morning set	3251 Apr 07 19:04 3251 Apr 20 03:57	21° Υ 50'36	
max. Earth dist.	3230 May 11 19.00	18 03807	1.33211 AO	morning set	3251 Apr 24 08:23	0° 8	
superior conj	3250 May 14 18:13	24° 8 53'50	0014149	max. Earth dist.	3251 Apr 24 10:28		1.34438 AU
minimum elong	3250 May 14 18:57	24° 8 57'47		max. Earth dist.	3231 Apr 24 10.28	0 01023	1.54456 AU
behind sun begin	3250 May 14 16:47	24° 8 46'13	0 1436	superior conj	3251 Apr 28 18:33	9° 8 00'25	0°43'25
behind sun end	3250 May 14 10:47 3250 May 14 21:07	25° 8 09'22		minimum elong	3251 Apr 28 20:49	9° 8 12'10	0°42'58
asc. node	3250 May 14 21:07 3250 May 16 04:11	27° 8 55'42		asc. node	3251 May 03 01:13	17° 8 58'00	0 42 38
asc. Houe	3250 May 17 03:18	27 O 33 42 0° I			3251 May 06 07:06	24° 8 46'11	
avanina rias		0 II 10°II11'12		evening rise	•	0° Ⅱ	
evening rise	3250 May 21 21:31	10 ப 11 12			3251 May 08 20:18		21910116
	3250 Jun 01 03:59		22040150	evening max el	3251 May 25 18:40	26° Ⅱ 24'39	21-10-16
evening max el	3250 Jun 12 21:24	15°5643'02	22°40'58	. 1	3251 May 30 07:17	0°50	
desc. node	3250 Jun 22 15:56	21°950'13		retrograde	3251 Jun 06 15:53	2°513'42	
retrograde	3250 Jun 26 02:27	22°917'20		evening set	3251 Jun 08 21:53	2°901'58	
evening set	3250 Jun 29 08:30	21°954'05	0.55004.433	desc. node	3251 Jun 09 12:57	1°954'39	
min. Earth dist.	3250 Jul 07 05:24	18°926'52			3251 Jun 14 16:38	30°RⅡ 200Ⅲ02120	2020157
inferior conj	3250 Jul 08 13:03	17°5541'38		inferior conj	3251 Jun 18 06:54	28° I I03'39	
minimum elong	3250 Jul 08 05:07	17°953'00	4~06'33	minimum elong	3251 Jun 18 00:03	28° I I3'17	
morning rise	3250 Jul 17 03:57	13°950'25		min. Earth dist.	3251 Jun 18 17:07		0.54859 AU
direct	3250 Jul 20 02:59	13°530'11		morning rise	3251 Jun 27 02:27	24° Ⅱ 04'32	
morning max el	3250 Jul 31 08:54	18° © 43'33	20°55'46	direct	3251 Jun 30 12:41	23° Ⅱ 39'07	
	3250 Aug 09 06:36	0 \circ Ω		morning max el	3251 Jul 13 06:55	29° Ⅱ 43'29	22°30'40
asc. node	3250 Aug 12 03:24	4° Ω 48'37			3251 Jul 13 13:56	0ංම	
morning set	3250 Aug 19 20:30	19° Ω 46′06		asc. node	3251 Jul 30 00:29	23° © 59'51	
	3250 Aug 24 18:27	0° m ∕			3251 Aug 02 01:16	$0^{\circ}\Omega$	

morning set	3251 Aug 04 06:56	4° Ω 37'20		morning set	3252 Jul 18 18:40	19° 5 32'24	
morning set	3231 Aug 04 00.30	4 063/20		morning set	3252 Jul 18 18:40 3252 Jul 23 15:13	19 £3 32 24 0° Ω	
superior conj	3251 Aug 11 10:14	19° Ω 48'53	1°38'41		3232 Jul 23 13.13	0 06	
minimum elong	3251 Aug 11 10:14 3251 Aug 11 08:37	19° Ω 40'20	1°38'34	superior conj	3252 Jul 25 18:19	4° Ω 37'44	1°27'20
max. Earth dist.	3251 Aug 14 13:59	26° Ω 26'02	1.34181 AU	minimum elong	3252 Jul 25 16:05	4°Ω25'38	1°27'04
max. Dartii dist.	3251 Aug 14 15:59 3251 Aug 16 07:43	0° m)	1.54101710	max. Earth dist.	3252 Jul 27 16:10		1.33079 AU
evening rise	3251 Aug 19 07:42	5° m) 58'51		evening rise	3252 Aug 02 02:47	20°Ω08'14	1.55075110
evening rise	3251 Sep 01 20:03	0∘ <u>ಹ</u>		o ronning rise	3252 Aug 07 03:56	0° m)	
desc. node	3251 Sep 05 12:18	5° ₽ 43'04		desc. node	3252 Aug 22 09:20	25° m 09'43	
evening max el	3251 Sep 23 01:18	27° £ 47'50	27°08'21		3252 Aug 25 21:57	0∘ ⊽	
* · · · · · · · · · · · · · · · · · · ·	3251 Sep 25 12:13	0°M		evening max el	3252 Sep 04 12:29	10° £ 59'14	27°26'20
retrograde	3251 Oct 06 09:12	5°M05'31		retrograde	3252 Sep 18 03:59	18° ≏ 15'55	
evening set	3251 Oct 13 06:27	2°M23'20		evening set	3252 Sep 25 08:08	15° ≏ 38'46	
8	3251 Oct 15 21:03	30° RΩ		min. Earth dist.	3252 Sep 28 24:00	12° ≏ 27'55	0.63551 AU
min. Earth dist.	3251 Oct 17 03:22	28° ♀ 39'20	0.65116 AU	inferior conj	3252 Oct 01 14:47	9° ≏ 49'23	
inferior conj	3251 Oct 19 05:48	26° ≙ 18'07	-2°14'17	minimum elong	3252 Oct 01 19:57	9° £ 36'17	
minimum elong	3251 Oct 19 09:30	26° ♀ 07'43	2°12'50	morning rise	3252 Oct 08 09:05	4° £ 32'02	
morning rise	3251 Oct 25 13:30	20° £ 44'16		direct	3252 Oct 10 20:37	4° £ 02'11	
asc. node	3251 Oct 25 23:39	20° £ 33'07		asc. node	3252 Oct 11 20:44	4° £ 07'11	
direct	3251 Oct 28 06:04	20° ഫ 05'32		morning max el	3252 Oct 17 10:30	7° £ 27'33	17°51'33
morning max el	3251 Nov 03 18:00	23° ₽ 34'33	18°06'10		3252 Nov 01 07:17	0°M,	
	3251 Nov 08 22:05	0° M		morning set	3252 Nov 02 23:46	2°M55'44	
morning set	3251 Nov 21 21:05	20°M44'52		-			
-	3251 Nov 27 12:07	0° ∡ ¹		superior conj	3252 Nov 15 06:28	23°M46'59	0°21'10
desc. node	3251 Dec 02 11:35	8° ₹ 03'36		minimum elong	3252 Nov 15 08:40	23°M56'05	0°20'50
				desc. node	3252 Nov 18 08:37	28°M50'00	
superior conj	3251 Dec 06 04:37	13° ∡ 59′07	-0°25'04		3252 Nov 19 01:54	0° ∡ ¹	
minimum elong	3251 Dec 06 01:27	13° ∡ ⁴46'35	0°24'37	max. Earth dist.	3252 Nov 21 08:36	3° ∡ ³39'47	1.44162 AU
max. Earth dist.	3251 Dec 09 14:39	19° ∡ 23'31	1.45033 AU	evening rise	3252 Nov 30 22:50	18° х 42′13	
	3251 Dec 16 09:19	0°⋜			3252 Dec 08 08:57	8°0	
evening rise	3251 Dec 22 13:23	9° ප 34'36		evening max el	3252 Dec 29 18:37	29° る 17'00	20°46'01
greatest brilliancy	3252 Jan 04 17:56	29° る 47'00	-0.7m		3252 Dec 30 11:50	0° ≈	
	3252 Jan 04 21:25	0° ≈		retrograde	3253 Jan 07 01:03	4° ≈ 10′09	
evening max el	3252 Jan 16 17:20	15° ≈ 45′23	19°43'07	asc. node	3253 Jan 07 19:59	4° ≈ 06'43	
asc. node	3252 Jan 21 22:55	19° ≈ 37'17		evening set	3253 Jan 11 00:21	2° ≈ 39'53	
retrograde	3252 Jan 24 03:01	20° ≈ 02'51			3253 Jan 13 16:47	30°₹ る	
evening set	3252 Jan 27 17:11	18° ≈ 47'24		inferior conj	3253 Jan 16 09:09	26° る 29'31	2°35'20
inferior conj	3252 Feb 02 04:11	12° ≈ 49'12	3°07'21	minimum elong	3253 Jan 16 06:37	26° る 38'12	
minimum elong	3252 Feb 02 01:51	12°≈56'56	3°06'52	min. Earth dist.	3253 Jan 16 21:38	25° る 46'42	0.67527 AU
min. Earth dist.	3252 Feb 03 05:48	11° ≈ 24'31	0.66774 AU	morning rise	3253 Jan 21 12:43	20° る 16'24	
morning rise	3252 Feb 07 10:17	6° ≈ 35'47		direct	3253 Jan 26 23:57	17° る 51'31	
direct	3252 Feb 13 11:50	3° ≈ 53'30		morning max el	3253 Feb 06 23:44	24° る 24'47	24°06'05
morning max el	3252 Feb 25 15:13	11° ≈ 07'39	25°31'40		3253 Feb 12 00:03	0° ≈	
desc. node	3252 Feb 28 10:46	14°≈08'17		desc. node	3253 Feb 14 07:48	2°≈52'29	
	3252 Mar 11 16:44	0° ∀			3253 Mar 05 03:41	0° ∀	
	3252 Mar 30 10:40	0° γ		morning set	3253 Mar 14 17:04	15°) 48′16	1 201 52 1 77
morning set	3252 Apr 01 20:59	4° Υ 21'36	1.26122.411	max. Earth dist.	3253 Mar 18 10:58	22°) 23'33 0° Υ	1.38153 AU
max. Earth dist.	3252 Apr 05 14:30	115 1 164/	1.36122 AU		3253 Mar 22 14:59	Os.A.	
gunorier cor:	2252 Amr. 11 10:24	22° Ƴ 37'36	1011140	gunariar ac-:	2252 Mar 25 14:17	5° Ƴ 35'53	1027!10
superior conj	3252 Apr 11 10:24	22° Y 3 / 36 22° Y 56 / 07		superior conj minimum elong	3253 Mar 25 14:17	5° Υ '35'33' 5° Υ '57'37	
minimum elong	3252 Apr 11 14:07	0° 8	1-11-04	· ·	3253 Mar 25 18:50	22° Y 57'31	1-364/
asc. node	3252 Apr 15 02:01 3252 Apr 18 22:15	7° 8 50'55		evening rise asc. node	3253 Apr 03 11:32 3253 Apr 05 19:18	22 γ 37 21 27° Υ 29'48	
	3252 Apr 19 12:37	9° 8 03'57		asc. node	•	0° 8	
evening rise		9° Ⅱ		avanina may al	3253 Apr 07 02:35		18°59'09
evening max el	3252 Apr 30 23:10 3252 May 07 03:36	0 Ⅱ 7°Ⅱ42'36	19°54'57	evening max el retrograde	3253 Apr 19 23:57 3253 Apr 28 13:19	23° 8 51'13	18 39 09
•	•	12° Ⅱ 38'27	19 34 37	-	-	23° 8 36'49	
retrograde evening set	3252 May 17 07:20 3252 May 19 06:50	12 Ⅲ 3827 12° Ⅲ 28'03		evening set inferior conj	3253 Apr 30 16:20 3253 May 08 19:22	19° 8 21'28	1°16'02
desc. node	3252 May 19 06:50 3252 May 26 09:59	9° Ⅱ 31'37		minimum elong	3253 May 08 19:22 3253 May 08 22:10	19° 8 21°28	1°16'02 1°15'06
inferior conj	3252 May 28 04:50	9 П 3137 8° П 27'31	-0°31'33	min. Earth dist.	3253 May 11 21:47	19 8 1031	0.56756 AU
minimum elong	3252 May 28 04:30 3252 May 28 03:23	8° П 27'31	0°31'00	desc. node	3253 May 11 21.47 3253 May 13 07:00	16° 8 17'47	0.50750 AU
min. Earth dist.	3252 May 30 06:10	7° П 12'40	0.55381 AU	morning rise	3253 May 17 00:52	14° 8 20'51	
morning rise	3252 Jun 05 21:56	4° I 1240	5.55501 AU	direct	3253 May 17 00:32 3253 May 22 05:32	13° 8 16'53	
direct	3252 Jun 10 02:51	3° I I23'26		morning max el	3253 Jun 05 12:43	20° 8 40'19	25°49'53
morning max el	3252 Jun 23 22:03	10° Ⅱ 13'25	24°13'33		3253 Jun 13 13:41	0°II	, .,
	3252 Jul 08 15:58	0°9			3253 Jul 01 03:00	0°©	
asc. node	3252 Jul 15 21:32	13° 9 34'18		asc. node	3253 Jul 01 03:00 3253 Jul 02 18:35	3°525'22	
	J 10 21.02						

morning set	3253 Jul 03 06:08	4° © 26'13		morning set	3254 Jun 17 15:35	19° Ⅱ 12'05	
morning set	3233 Jul 03 00.08	7 32013		asc. node	3254 Jun 19 15:36	23° ∏ 26'44	
superior conj	3253 Jul 10 05:13	19° © 33'45	1°11'13	use. Houe	3254 Jun 22 16:01	0.ಪ	
minimum elong	3253 Jul 10 02:52	19° © 20'51	1°10'50				
max. Earth dist.	3253 Jul 11 00:54	21° © 21'49	1.32384 AU	superior conj	3254 Jun 24 17:01	4° 5 29'37	0°51'04
	3253 Jul 15 00:31	$0^{\circ}\Omega$		minimum elong	3254 Jun 24 15:01	4° © 18'37	0°50'41
evening rise	3253 Jul 17 05:38	4° Ω 39'44		max. Earth dist.	3254 Jun 24 12:33	4° 5 05'00	1.32089 AU
	3253 Jul 30 20:07	O° Mp		evening rise	3254 Jul 01 13:32	19° 5 23'58	
desc. node	3253 Aug 09 06:21	13° m 53'22			3254 Jul 06 18:43	0 $^{\circ}$ Ω	
evening max el	3253 Aug 17 19:43	23°M 36'16	27°12'47		3254 Jul 25 18:33	0° ™	
	3253 Aug 27 05:48	0∘ ⊽		desc. node	3254 Jul 27 03:21	1°Mp35'18	
retrograde	3253 Aug 31 15:53	0° ჲ 50′10		evening max el	3254 Jul 30 20:34	5° m ,27'45	26°26'03
	3253 Sep 04 22:18	30°₽, Т р		retrograde	3254 Aug 13 19:56	12° m)38'43	
evening set	3253 Sep 07 19:16	28° m 30'11		evening set	3254 Aug 20 11:07	10° m 49'01	
min. Earth dist.	3253 Sep 11 10:00	25° m/44'28	0.61684 AU	min. Earth dist.	3254 Aug 24 09:52	8° Mp 13'36	0.59627 AU
inferior conj	3253 Sep 14 11:38	22° m 59'50		inferior conj	3254 Aug 27 16:48	5° m 39'33	
minimum elong	3253 Sep 14 17:21	22° mp 47'00	4°06'19	minimum elong	3254 Aug 27 21:06	5° mp 31'07	4°48'36
morning rise	3253 Sep 21 17:09	18° Mp 02'30		morning rise	3254 Sep 04 09:13	1° Mp 04'41	
direct asc. node	3253 Sep 24 02:23	17° Mp 38'29		direct	3254 Sep 06 19:02	0° Mp 44'01	10010122
	3253 Sep 28 17:47	19° Mp 12'54	17055115	morning max el asc. node	3254 Sep. 15 14:40	4° Mp 28'13	18°18'33
morning max el	3253 Oct 01 01:33 3253 Oct 07 18:18	21°Mp08'31 0° <u>₽</u>	17 33 13	morning set	3254 Sep 15 14:49 3254 Sep 30 10:21	5° Mp 37'05 29° Mp 49'21	
morning set	3253 Oct 07 18:18 3253 Oct 16 22:04	0 = 16° £ 02'38		morning set	3254 Sep 30 10:21 3254 Sep 30 12:35	0° ∪	
morning set	3253 Oct 10 22:04 3253 Oct 24 15:58	0°M			3234 Sep 30 12.33	0 ==	
	3233 Oct 24 13.30	O IIO		superior conj	3254 Oct 09 16:26	17° ≏ 13'12	1°24'06
superior conj	3253 Oct 27 11:20	4°M54'35	0°58'22	minimum elong	3254 Oct 09 20:10	17° £ 30'15	1°23'44
minimum elong	3253 Oct 27 15:36	5°M13'03	0°57'49	g	3254 Oct 16 21:31	0°M	. 23
max. Earth dist.	3253 Nov 03 22:04	17°M28'19	1.42686 AU	max. Earth dist.	3254 Oct 17 05:52	0°M35'44	1.40788 AU
desc. node	3253 Nov 05 05:38	19°M37'26		evening rise	3254 Oct 21 21:51	8°M24'45	
evening rise	3253 Nov 10 13:04	28°M07'19		desc. node	3254 Oct 23 02:40	10°M22'26	
-	3253 Nov 11 17:48	0° ∡ ¹			3254 Nov 04 19:39	0°∡7	
	3253 Dec 02 02:55	万 °0		evening max el	3254 Nov 25 05:30	26° ₹ ¹24'34	23°18'57
evening max el	3253 Dec 12 14:16	12° る 49'16	21°59'35		3254 Nov 29 07:25	5°0	
retrograde	3253 Dec 21 21:53	18° る 22'03		retrograde	3254 Dec 05 16:04	2° る 35'30	
asc. node	3253 Dec 25 17:01	17° る 04'14		evening set	3254 Dec 10 14:40	0° る 33'08	
evening set	3253 Dec 26 08:02	16° る 35'58			3254 Dec 11 05:32	30°₽ ✓	
inferior conj	3253 Dec 31 16:23	10° る 16'48	1°55'19	asc. node	3254 Dec 12 14:02	28° ₹ 35'03	
minimum elong	3253 Dec 31 14:08	10° る 24'36	1°54'31	min. Earth dist.	3254 Dec 15 13:57	24° ∡ °43'46	0.67900 AU
min. Earth dist.	3253 Dec 31 17:09		0.67892 AU	inferior conj	3254 Dec 16 00:02	24° ₹ 09'07	1°08'40
morning rise	3254 Jan 05 20:06	4°る05'30		minimum elong	3254 Dec 15 22:31	24° 🖈 14'21	1°08'03
direct	3254 Jan 10 16:19	2°る02'27	22227117	morning rise	3254 Dec 21 06:17	18° ½ 01'31	
morning max el desc. node	3254 Jan 20 10:00 3254 Feb 01 04:50	7°る47'43 22°る16'25	22°3/1/	direct	3254 Dec 25 12:10	16° ҂ 21'16 21° ҂ 19'42	21912151
desc. node	3254 Feb 01 04:50 3254 Feb 06 15:47	0°≈		morning max el	3255 Jan 03 01:29 3255 Jan 10 09:02	21° x '1942 0°る	21-13-31
morning set	3254 Feb 23 10:11	0 ∞ 25°≈55'21		desc. node	3255 Jan 19 01:52	12° る 09'13	
morning set	3254 Feb 25 21:16	0° ∀		dese. Hode	3255 Jan 30 22:22	0°≈	
max. Earth dist.	3254 Feb 28 06:50		1.40319 AU	morning set	3255 Feb 02 22:47	4°≈42'51	
				max. Earth dist.	3255 Feb 10 08:18	16° ≈ 35'19	1.42343 AU
superior conj	3254 Mar 08 01:42	17°) 43'44	-1°57'07				
minimum elong	3254 Mar 08 05:37	18° ∺ 01'28		superior conj	3255 Feb 17 15:34	28° ≈ 49'50	-2°06'32
-	3254 Mar 14 16:46	$0^{\circ}\mathbf{\Upsilon}$		minimum elong	3255 Feb 17 16:17	28° ≈ 52'53	2°06'31
evening rise	3254 Mar 18 00:38	6° Ƴ 17'35			3255 Feb 18 07:54	0°) €	
asc. node	3254 Mar 23 16:20	16° Ƴ 48'35		evening rise	3255 Mar 01 00:07	18° ¥ 56′04	
	3254 Apr 01 04:04	9° 8			3255 Mar 07 04:31	0 ° Υ	
evening max el	3254 Apr 03 05:00	2° 8 13'38	18°23'38	asc. node	3255 Mar 10 13:21	5° Y 40'42	
retrograde	3254 Apr 10 14:10	5° 8 52'58		evening max el	3255 Mar 17 15:28	15° Ƴ 11'49	18°08'00
evening set	3254 Apr 12 23:29	5° 8 31'03		retrograde	3255 Mar 24 07:58	18° Ƴ 36'19	
inferior conj	3254 Apr 20 07:14	0° 8 56'04		evening set	3255 Mar 26 23:29	18° Υ 04'33	2010:27
minimum elong	3254 Apr 20 10:59	0° 8 48'18	2°32'16	inferior conj	3255 Apr 02 15:07	13° Y ′08'57	3°18'25
i. D. d. V.	3254 Apr 21 10:18	30°RΥ	0.50702.433	minimum elong	3255 Apr 02 17:39	13° ℃ 02'54	3°18'02
min. Earth dist.	3254 Apr 23 17:52	28°Y07'26	0.58703 AU	min. Earth dist.	3255 Apr 05 20:32	10° ℃ 05'57	0.60876 AU
morning rise	3254 Apr 27 19:34	25° Υ 24'28 24° Υ 23'18		morning rise	3255 Apr 16 03:08	7° Υ 16'55 5° Υ 03'15	
desc. node direct	3254 Apr 30 04:01 3254 May 03 22:24	24°° Y °23°18 23° Y °45'39		direct desc. node	3255 Apr 16 03:08 3255 Apr 17 01:02	5°Υ03'15 5°Υ05'37	
ancei	3254 May 16 17:25	0° 8		morning max el	3255 Apr 17 01:02 3255 Apr 30 09:06	12° Υ 58'19	27041137
morning max el	3254 May 18 07:49	1° 8 30'04	27°03'58	morning max or	3255 May 13 22:03	0° 8	<u>~</u> ! ¬¬ J!
morning max ci	3254 Jun 07 17:51	0° Ⅱ	27 03 30		3255 May 31 01:12	0°U	
	520.0an 0/ 1/.01	~ 			5200iuj 51 01.12	~ ~	

morning set	3255 Jun 01 21:13	3° Ⅱ 44'08		max. Earth dist.	3256 May 21 05:51	29° 8 04'16	1.32715 AU
asc. node	3255 Jun 06 12:38	13° Ⅲ 33'57			3256 May 21 16:17	$\Pi^{\circ}0$	
max. Earth dist.	3255 Jun 07 23:29	16° Ⅱ 43′26	1.32196 AU	asc. node	3256 May 23 09:40	3° Ⅱ 42′27	
superior conj	3255 Jun 09 04:02	19° Ⅱ 19'41	0°27'31	superior conj	3256 May 23 12:31	3° Ⅱ 57'50	0°01'15
minimum elong	3255 Jun 09 02:49	19° Ⅱ 13'00	0°27'15	minimum elong	3256 May 23 12:27	3° Ⅱ 57′29	0°01'15
	3255 Jun 14 01:02	0 \circ		behind sun begin	3256 May 23 07:14	3° Ⅱ 29'16	
evening rise	3255 Jun 16 00:23	4°छ14'11		behind sun end	3256 May 23 17:41	4° Ⅱ 25'44	
	3255 Jun 29 17:20	$0^{\circ}\Omega$		evening rise	3256 May 30 12:13	19° Ⅱ 03'36	
evening max el	3255 Jul 12 14:18	16° Ω 32'39	25°10'15		3256 Jun 04 20:50	0	
desc. node	3255 Jul 14 00:20	17° Ω 50'38		evening max el	3256 Jun 23 03:47	27° © 04'58	23°36'46
retrograde	3255 Jul 26 13:49	23° Ω 38′00			3256 Jun 26 13:16	$0^{\circ}\Omega$	
evening set	3255 Aug 01 03:26	22° Ω 26'44		desc. node	3256 Jun 29 21:20	2° Ω 06'58	
min. Earth dist.	3255 Aug 06 02:04	19° Ω 43'09	0.57615 AU	retrograde	3256 Jul 06 19:11	3° Ω 55'14	
inferior conj	3255 Aug 09 03:03	17° Ω 39'29		evening set	3256 Jul 10 21:36	3° Ω 18′22	
minimum elong	3255 Aug 09 03:05		5°06'16	min. Earth dist.	3256 Jul 17 13:54	0° Ω 11'01	0.55962 AU
morning rise	3255 Aug 17 05:12	13° Ω 26'49			3256 Jul 17 21:22	30° ₹ 5	
direct	3255 Aug 19 18:31	13° Ω 07'30		inferior conj	3256 Jul 19 17:13	28° © 54'15	
morning max el	3255 Aug 28 14:18	17° Ω 16'49	19°02'46	minimum elong	3256 Jul 19 11:28	29° © 02'54	4°42'59
asc. node	3255 Sep 02 11:51	23° Ω 04'34		morning rise	3256 Jul 28 03:51	24° © 58'48	
	3255 Sep 06 21:05	0° m		direct	3256 Jul 30 23:01	24° © 39'16	
morning set	3255 Sep 14 08:23	14° m 04'05		morning max el	3256 Aug 10 05:58	29° © 25'42	20°08'37
	3255 Sep 22 10:41	0∘ ⊽			3256 Aug 10 20:19	$0^{\circ}\Omega$	
				asc. node	3256 Aug 19 08:54	11° Ω 21'39	
superior conj	3255 Sep 22 16:17	0° £ 26'56		morning set	3256 Aug 28 13:04	28° Ω 38'49	
minimum elong	3255 Sep 22 18:23	0° £ 37'04			3256 Aug 29 05:00	0° т р	
max. Earth dist.	3255 Sep 29 10:12	13° Ω 01'23	1.38717 AU				
evening rise	3255 Oct 03 06:16	19° £ 47'29		superior conj	3256 Sep 05 05:50	14° m 21'48	1°44'41
	3255 Oct 09 08:37	0°M		minimum elong	3256 Sep 05 06:13	14° m 23'41	1°44'40
desc. node	3255 Oct 09 23:41	1°M00'54		max. Earth dist.	3256 Sep 10 16:01	25° Mp 00'04	1.36722 AU
	3255 Oct 29 23:29	0° √ ¹	2.402.715.5		3256 Sep 13 07:55	0° ™	
evening max el	3255 Nov 07 18:21	10°×704'05	24°37'55	evening rise	3256 Sep 14 12:37	2° £ 11'42	
retrograde	3255 Nov 19 06:18	16° ₹ 46'17		desc. node	3256 Sep 25 20:43	21° £ 28'30	
evening set	3255 Nov 24 18:37	14° 🗷 28'05		arranina marral	3256 Oct 01 10:23	0°M	25°49'15
asc. node min. Earth dist.	3255 Nov 29 11:03 3255 Nov 29 09:36	9°× 7 07'40	0.67560 AII	evening max el	3256 Oct 20 06:43	23°M46′23 0°⊀	25-49-15
		9° 🖈 12'29	0.67569 AU	ratra ara da	3256 Oct 28 19:57	0° x ¹ 0° x ¹49'58	
inferior conj minimum elong	3255 Nov 30 06:19 3255 Nov 30 05:55	8° ₹03'31	0°16'29 0°16'18	retrograde	3256 Nov 01 15:50		
morning rise	3255 Nov 30 05:55 3255 Dec 05 17:17	8° ₹04'53 2° ₹01'54	0-10-18	avanina aat	3256 Nov 05 04:56 3256 Nov 07 18:14	30°RM 28°M18'05	
direct	3255 Dec 05 17:17 3255 Dec 09 10:11	2 x ·01 34 0° x ⁷ 43′04		evening set min. Earth dist.	3256 Nov 12 01:43		0.66897 AU
morning max el	3255 Dec 17 00:34	5° ₹ 102'38	20°01'39	inferior conj	3256 Nov 12 01:43 3256 Nov 13 09:28	23 IIL3743 21°M57'29	
morning max ci	3256 Jan 04 09:11	0°る	20 01 39	minimum elong	3256 Nov 13 10:31	21°M54'10	0°39'35
desc. node	3256 Jan 05 22:54	0 0 2° る 22'34		asc. node	3256 Nov 15 10:31 3256 Nov 15 08:05	19°M34'26	0 3933
morning set	3256 Jan 12 19:01	12°る50'28		morning rise	3256 Nov 19 03:08	16°M04'30	
max. Earth dist.	3256 Jan 23 17:45	0°≈00'51	1.43957 AU	direct	3256 Nov 22 08:54	15°M04'11	
max. Lartii dist.	3256 Jan 23 17:32	0° ≈	1.43737 110	morning max el	3256 Nov 29 07:23	18°M55'50	19°04'02
	3230 Jan 23 17.32	0 ~		morning max ci	3256 Dec 07 22:37	0° ₹	17 04 02
superior conj	3256 Jan 29 03:46	8° ≈ 45'37	-2°00'17	morning set	3256 Dec 22 00:06	21° х 33'28	
minimum elong	3256 Jan 28 22:49	8°≈25'26		desc. node	3256 Dec 22 19:59	22° х 51'00	
minimum viong	3256 Feb 10 19:24	0° ∀	2 00 03	dese. node	3256 Dec 27 09:54	0°る	
evening rise	3256 Feb 11 05:36	0°) (43'48		max. Earth dist.	3257 Jan 05 09:48		1.44953 AU
asc. node	3256 Feb 25 10:22	23°) 57'10		man. Bartii dige.	325 / Vall 00 03.10	1. 000 .2	1,00
evening max el	3256 Feb 29 04:05	28°) (26'12	18°11'35	superior conj	3257 Jan 07 16:06	17° る 39'53	-1°34'46
	3256 Mar 01 22:28	0°Υ		minimum elong	3257 Jan 07 07:04	17° る 04'12	
retrograde	3256 Mar 06 14:32	1°Υ50'32		g	3257 Jan 15 09:50	0°≈	1 33 55
evening set	3256 Mar 09 11:44	1° Υ 07'40		evening rise	3257 Jan 22 13:18	11° ≈ 35'52	
<i>3</i>	3256 Mar 11 07:14	30° ₹		<i>5</i>	3257 Feb 02 21:37	0°) €	
inferior conj	3256 Mar 15 15:10	25°) 52'02	3°37'27	asc. node	3257 Feb 11 07:24	11°) 27'53	
minimum elong	3256 Mar 15 15:52	25°) 50'10	3°37'26	evening max el	3257 Feb 11 16:05	11°) € 50′23	18°33'36
min. Earth dist.	3256 Mar 18 07:42	22°) 58'53	0.62962 AU	retrograde	3257 Feb 18 05:38	15°) 27'24	*
morning rise	3256 Mar 21 18:54	19°) (48'18		evening set	3257 Feb 21 08:38	14°) (32'36	
direct	3256 Mar 28 16:56	17°) €09'24		inferior conj	3257 Feb 27 03:26	8° ¥ 58'30	3°36'47
desc. node	3256 Apr 02 22:04	18°) €27'36		minimum elong	3257 Feb 27 02:31	9°) €01'13	3°36'45
morning max el	3256 Apr 11 15:36	25°) €06'46	27°47'53	min. Earth dist.	3257 Mar 01 04:26	6°) 32′51	0.64754 AU
Ü	3256 Apr 16 02:54	$0^{\circ}\mathbf{\Upsilon}$		morning rise	3257 Mar 04 19:54	2°) 48′29	
	3256 May 06 08:43	0°8		-	3257 Mar 10 20:39	30° R ≈	
morning set	3256 May 15 20:53	17° 8 55'03		direct	3257 Mar 11 14:09	29° ≈ 58'09	
-	-						

	3257 Mar 12 07:53	0°) €		direct	2250 Eab 22 17:56	1290020152	
1 1				direct	3258 Feb 22 17:56	13°≈20'52	26015120
desc. node	3257 Mar 20 19:07	3°) € 59'11	25015155	morning max el	3258 Mar 07 11:05	20°≈53'20	26°15'38
morning max el	3257 Mar 25 01:08	7°) (49′02	2/°15'5/	desc. node	3258 Mar 07 16:12	21°≈06′19	
	3257 Apr 11 05:21	0° Υ			3258 Mar 15 08:21	0°) €	
	3257 Apr 28 15:53	0°8			3258 Apr 04 09:11	0° Υ	
morning set	3257 Apr 29 11:47	1° 8 36'18		morning set	3258 Apr 12 14:13	14° Ƴ 37'23	
max. Earth dist.	3257 May 04 03:53	10° 8 56'56	1.33678 AU	max. Earth dist.	3258 Apr 16 14:38	22° Y 17'54	1.35101 AU
					3258 Apr 20 11:30	9° 8	
superior conj	3257 May 07 16:28	18° 8 17'37	-0°26'52				
minimum elong	3257 May 07 17:51	18° 8 24'53	0°26'35	superior conj	3258 Apr 21 13:35	2° 8 12'43	-0°55'33
asc. node	3257 May 10 06:44	23° 8 48'12		minimum elong	3258 Apr 21 16:30	2° 8 27'36	0°55'01
	3257 May 13 04:29	Π $^{\circ}0$		asc. node	3258 Apr 27 03:46	13° 8 47'08	
evening rise	3257 May 14 23:13	3° Ⅱ 45'43		evening rise	3258 Apr 29 07:24	18° 8 14'32	
	3257 May 29 11:49	0° ©			3258 May 05 05:46	$\Pi^{\circ}0$	
evening max el	3257 Jun 04 19:52	7° © 33'15	22°00'56	evening max el	3258 May 17 21:44	18° Ⅲ 28′22	20°35'58
desc. node	3257 Jun 16 18:21	13°5649'05		retrograde	3258 May 29 02:04	23° Ⅱ 55'30	
retrograde	3257 Jun 17 12:56	13°950'28		evening set	3258 May 31 03:13	23° Ⅱ 45'15	
evening set	3257 Jun 20 06:53	13° © 33'38		desc. node	3258 Jun 03 15:22	22° Ⅱ 44'37	
min. Earth dist.	3257 Jun 29 00:40	9° 5 49'16	0.54996 AU	inferior conj	3258 Jun 09 09:04	19° Ⅱ 47'38	-1°40'54
inferior conj	3257 Jun 29 15:19	9° 5 28'45		minimum elong	3258 Jun 09 04:19	19° ∏ 54'29	
minimum elong	3257 Jun 29 07:02	9°540'22	3°29'30	min. Earth dist.	3258 Jun 10 12:54	19° Ⅱ 07'33	0.54956 AU
morning rise	3257 Jul 08 08:49	5° © 37'09	3 27 30	morning rise	3258 Jun 18 04:40	15° Ⅱ 39'16	0.5 1950 110
direct	3257 Jul 11 12:01	5° © 15'24		direct	3258 Jun 21 21:34	15° Ⅱ 09'42	
	3257 Jul 23 09:59		21°34'33		3258 Jul	21° II 34'50	22014121
morning max el			21 34 33	morning max el			23 14 21
asc. node	3257 Aug 06 05:59	0° Ω 15'50		,	3258 Jul 12 11:14	0°©	
	3257 Aug 06 02:31	0° N		asc. node	3258 Jul 24 03:03	19°537'43	
morning set	3257 Aug 12 21:59	13° Ω 25'47		morning set	3258 Jul 28 09:11	28° © 19'15	
					3258 Jul 29 04:15	0 \circ Ω	
superior conj	3257 Aug 20 04:57	28° Ω 44'59	1°42'44			_	
minimum elong	3257 Aug 20 03:56	28° Ω 39'38	1°42'41	superior conj	3258 Aug 04 10:30	13° Ω 26′50	1°34'30
	3257 Aug 20 19:22	0° т р		minimum elong	3258 Aug 04 08:34	13° Ω 16′27	1°34'20
max. Earth dist.	3257 Aug 24 04:09	6° Mp 53′19	1.34998 AU	max. Earth dist.	3258 Aug 07 01:06	18° Ω 59'33	1.33656 AU
evening rise	3257 Aug 28 12:33	15° m 25'35		evening rise	3258 Aug 12 01:44	29° Ω 17'42	
	3257 Sep 05 13:48	0∘ ত			3258 Aug 12 10:16	0° m y	
desc. node	3257 Sep 12 17:44	11° ≏ 38'45			3258 Aug 29 16:10	0∘ ⊽	
	3257 Sep 26 00:28	0° M,		desc. node	3258 Aug 30 14:43	1° ≏ 24'01	
evening max el	3257 Oct 02 19:08	7° ጤ 24'11	26°45'31	evening max el	3258 Sep 15 07:03	20° ≏ 48′05	27°19'28
retrograde	3257 Oct 15 20:08	14°M39'24		retrograde	3258 Sep 28 18:46	28° ჲ 06'39	
evening set	3257 Oct 22 11:27	11° M 58'31		evening set	3258 Oct 05 19:43	25° ≏ 24'54	
min. Earth dist.	3257 Oct 26 11:56	7°M54'22	0.65873 AU	min. Earth dist.	3258 Oct 09 14:04	21° ≏ 55'47	0.64493 AU
inferior conj	3257 Oct 28 07:26	5°M46'25	-1°39'29	inferior conj	3258 Oct 11 21:56	19° ≏ 25'46	-2°39'47
minimum elong	3257 Oct 28 10:10	5°M38'23	1°38'21	minimum elong	3258 Oct 12 02:19	19° ≏ 13'56	2°38'10
asc. node	3257 Nov 02 05:09	0°M49'25		morning rise	3258 Oct 18 10:04	13° ≏ 58'46	
morning rise	3257 Nov 03 09:37	0°ML04'56		asc. node	3258 Oct 20 02:14	13° ≏ 28'42	
	3257 Nov 03 13:29	30° Ŗ Ω		direct	3258 Oct 21 00:04	13° £ 24'23	
direct	3257 Nov 06 06:18	29° ₽ 19'30		morning max el	3258 Oct 27 12:06	16° £ 50'54	17°57'45
uncer	3257 Nov 09 00:16	0°M		morning max er	3258 Nov 05 23:44	0° ™	17 37 13
morning max el	3257 Nov 12 20:07	2°M53'58	18°22'28	morning set	3258 Nov 13 20:11	13°M07'54	
morning max cr	3257 Dec 01 07:20	0° ∡ 7	10 22 20	morning set	3258 Nov 23 23:33	0° ⊼	
morning set	3257 Dec 01 07:20 3257 Dec 02 07:45	1° ∡ 738'29		desc. node	3258 Nov 26 14:03	4° ⋌ 13'29	
desc. node				desc. Hode	3238 NOV 20 14.03	4 🗶 13 29	
desc. node	3257 Dec 09 17:02	13° ≯ 29'15			2250 N 27 06-27	59.700115	0004144
	2257 D 17 10 01	260 711150	0050146	superior conj	3258 Nov 27 06:37	5° ~ 20'15	
superior conj	3257 Dec 17 18:01	26° 🖈 11'58		minimum elong	3258 Nov 27 06:03	5° ₹ 17'59	0°04'40
minimum elong	3257 Dec 17 11:23	25° ₹ 45'54	0°51'55	behind sun begin	3258 Nov 26 20:05	4° ⋌ ³37'49	
max. Earth dist.	3257 Dec 19 04:51	28° ∡ 28'46	1.45217 AU	behind sun end	3258 Nov 27 16:01	5° ≯ ′58′05	
	3257 Dec 20 04:07	0°₹		max. Earth dist.	3258 Dec 01 23:27	12° ∡ ′50′19	1.44743 AU
evening rise	3258 Jan 02 21:51	21° る 32'32			3258 Dec 12 23:33	0°ප	
	3258 Jan 08 07:00	0° ≈		evening rise	3258 Dec 13 12:03	0° る 48'08	
greatest brilliancy	3258 Jan 13 10:56	8° ≈ 02'59	-0.8m	greatest brilliancy	3258 Dec 28 00:11	22° る 45'53	-0.6m
evening max el	3258 Jan 26 01:08	25° ≈ 19'36	19°13'08		3259 Jan 02 01:37	0° ≈	
asc. node	3258 Jan 29 04:25	28° ≈ 00′01		evening max el	3259 Jan 09 05:29	8° ≈ 50'22	20°08'21
retrograde	3258 Feb 02 01:38	29° ≈ 20′05		asc. node	3259 Jan 16 01:28	13° ≈ 18′10	
evening set	3258 Feb 05 11:16	28° ≈ 12'33		retrograde	3259 Jan 16 23:34	13° ≈ 22'50	
inferior conj	3258 Feb 11 00:24	22° ≈ 22'17	3°21'28	evening set	3259 Jan 20 17:19	12° ≈ 01'23	
minimum elong	3258 Feb 10 22:25	22° ≈ 28'38	3°21'09	inferior conj	3259 Jan 26 03:09	5° ≈ 57'34	2°54'52
•	3236 FCU 10 22.23	22 . 4.2030	5 21 07	milerior com	520 Cum 20 05.07		2 3 1 3 2
min. Earth dist.	3258 Feb 10 22:25 3258 Feb 12 10:09	20°≈34'02	0.66151 AU	minimum elong	3259 Jan 26 00:40	6°≈05'57	2°54'15
min. Earth dist. morning rise							

morning rise	3259 Jan 31 07:47	29° ට 43'49		inferior conj	3260 Jan 10 09:20	19° ට 41'31	2°19'16
-	3259 Jan 31 00:50	30°Ŗ₹		minimum elong	3260 Jan 10 06:52	19° る 50'03	2°18'28
direct	3259 Feb 06 03:21	27° පි 08'01		min. Earth dist.	3260 Jan 10 16:47	19° る 15'47	0.67731 AU
	3259 Feb 13 04:02	0°≈		morning rise	3260 Jan 15 12:39	13° る 28'51	
morning max el	3259 Feb 17 19:48	4° ≈ 07'01	24°56'12	direct	3260 Jan 20 17:35	11° る 12'38	
desc. node	3259 Feb 22 13:15	9° ≈ 20'50		morning max el	3260 Jan 31 04:27	17° る 25'52	23°28'00
	3259 Mar 09 16:08	0° ∀		desc. node	3260 Feb 09 10:16	28° る 23'40	
morning set	3259 Mar 25 23:05	26°) 43′04			3260 Feb 10 15:15	0° ≈	
	3259 Mar 27 18:55	0° Y			3260 Mar 01 17:57	0° ∀	
max. Earth dist.	3259 Mar 29 14:22	3° Ƴ 18'46	1.36949 AU	morning set	3260 Mar 06 08:16	7°) 37′04	
				max. Earth dist.	3260 Mar 10 09:13	14°) 33′52	1.39079 AU
superior conj	3259 Apr 05 00:46	15° Ƴ 34'09	-1°23'03				
minimum elong	3259 Apr 05 04:57	15° Ƴ 54'39	1°22'26	superior conj	3260 Mar 17 22:13	28° ∺ 12'27	-1°46'41
	3259 Apr 12 06:04	9° 8		minimum elong	3260 Mar 18 02:45	28°) ₹33'35	1°46'14
evening rise	3259 Apr 13 10:24	2° 8 22'23			3260 Mar 18 21:11	0 ° Υ	
asc. node	3259 Apr 14 00:48	3° 8 34'24		evening rise	3260 Mar 27 05:30	16° Y 02′12	
	3259 Apr 30 10:16	$\Pi^{\circ}0$		asc. node	3260 Mar 30 21:49	23° Y 05'09	
evening max el	3259 Apr 30 11:46	0°耳03'40	19°28'46		3260 Apr 03 17:08	9° 8	
retrograde	3259 May 09 22:23	4° Ⅱ 38′26		evening max el	3260 Apr 12 12:17	12° 8 17'46	18°41'34
evening set	3259 May 11 22:31	4° Ⅱ 26'58		retrograde	3260 Apr 20 11:57	16° 8 12'16	
inferior conj	3259 May 20 12:56	0° Ⅱ 21'33		evening set	3260 Apr 22 17:45	15° 8 54'55	
minimum elong	3259 May 20 13:40	0°Ⅱ20′22	0°16'50	inferior conj	3260 Apr 30 12:20	11° 8 31'40	1°52'55
	3259 May 21 02:17	30° ₹ 8		minimum elong	3260 Apr 30 15:55	11° 8 24'55	1°51'49
desc. node	3259 May 21 12:25	29° 8 43'38		min. Earth dist.	3260 May 03 20:22	9° 8 02'41	0.57545 AU
min. Earth dist.	3259 May 23 03:13	28° 8 41'42	0.55873 AU	desc. node	3260 May 07 09:26	6° 8 48'27	
morning rise	3259 May 29 02:02	25° 8 41'03		morning rise	3260 May 08 10:55	6° 8 17'01	
direct	3259 Jun 02 16:47	24° 8 52'51		direct	3260 May 14 02:00	4° 8 58'40	
	3259 Jun 14 13:00	$\Pi^{\circ}0$		morning max el	3260 May 28 10:34	12° 8 32'05	26°24'51
morning max el	3259 Jun 16 18:45	1° Ⅱ 59'37	24°56'17		3260 Jun 11 02:36	Π °0	
	3259 Jul 06 06:52	0ංම		morning set	3260 Jun 26 07:42	28° Ⅱ 03'54	
asc. node	3259 Jul 11 00:06	9° © 19'19		asc. node	3260 Jun 26 21:06	29° ∏ 14'48	
morning set	3259 Jul 12 20:57	13°913'37			3260 Jun 27 05:36	0₀ ©	
superior conj	3259 Jul 19 20:00	28° © 19'05	1°21'02	superior conj	3260 Jul 03 07:27	13° © 15'07	1°03'07
minimum elong	3259 Jul 19 17:39	28°\$06'18	1°20'43	minimum elong	3260 Jul 03 07:27 3260 Jul 03 05:12	13° © 02'41	1°02'44
minimum ciong	3259 Jul 19 17:39 3259 Jul 20 14:30	28 3 00 18	1 2043	max. Earth dist.	3260 Jul 03 05:12 3260 Jul 03 16:32	13 \$30241 14°\$05'07	1.32212 AU
max. Earth dist.	3259 Jul 20 14:30 3259 Jul 21 06:08	1° Ω 24'57	1.32728 AU	evening rise	3260 Jul 10 05:44	28°9514'38	1.32212 AO
evening rise	3259 Jul 27 00:08 3259 Jul 27 00:27	13° Ω 37'06	1.32720 AU	evening rise	3260 Jul 11 01:58	0°Ω	
evening rise	3259 Aug 04 12:54	0° m)			3260 Jul 27 20:44	0° mp	
desc. node	3259 Aug 17 11:44	20° m ₂ 33'53		desc. node	3260 Aug 03 08:44	8° Mp 53'24	
dese. Hode	3259 Aug 25 00:57	0ಂ ರ		evening max el	3260 Aug 09 21:53	16° Mp 05'16	26°57'02
evening max el	3259 Aug 28 16:52	3° - 246'17	27°24'44	retrograde	3260 Aug 23 19:38	23° Mp 17'16	20 07 02
retrograde	3259 Sep 11 11:03	11° ≏ 02'29	2, 2	evening set	3260 Aug 30 19:15	21° Mp 09'06	
evening set	3259 Sep 18 15:46	8° £ 31'10		min. Earth dist.	3260 Sep 03 12:07	18° m) 29'39	0.60813 AU
min. Earth dist.	3259 Sep 22 06:26		0.62779 AU	inferior conj	3260 Sep 06 16:47	15° m 47'35	
inferior conj	3259 Sep 25 02:10	2° - 49'12		minimum elong	3260 Sep 06 22:12	15° m 36'04	
minimum elong	3259 Sep 25 07:44	2° £ 35'46		morning rise	3260 Sep 14 02:58	10° m 59'14	
8	3259 Sep 28 04:50	30°R, M⊅		direct	3260 Sep 16 12:07	10° m 36'51	
morning rise	3259 Oct 02 01:12	27° m/39'55		asc. node	3260 Sep 22 20:20	13° m/22'50	
direct	3259 Oct 04 11:16	27° m 13'00		morning max el	3260 Sep 23 17:44	14° m) 11'55	18°02'43
asc. node	3259 Oct 06 23:18	27° m 42'32		Č	3260 Oct 04 12:42	0∘ <u>⊽</u>	
	3259 Oct 10 11:32	0∘ <u>⊽</u>		morning set	3260 Oct 09 12:56	9° ≙ 10'46	
morning max el	3259 Oct 11 04:22	0° ჲ 39'44	17°50'48	Č			
morning set	3259 Oct 27 08:03	25° £ 45'10		superior conj	3260 Oct 19 11:39	27° Ω 21'15	1°10'41
. 8	3259 Oct 29 17:39	0° M .		minimum elong	3260 Oct 19 15:55	27° Ω 40'08	1°10'11
				Č	3260 Oct 20 23:41	0°M	
superior conj	3259 Nov 07 19:55	15°M42'13	0°38'16	max. Earth dist.	3260 Oct 27 02:48	10°M29'01	1.41918 AU
minimum elong	3259 Nov 07 23:25	15°M56'55	0°37'47	desc. node	3260 Oct 30 08:04	15°M47'26	_
desc. node	3259 Nov 13 11:03	25°ML00'51		evening rise	3260 Nov 01 18:29	19°M43'10	
max. Earth dist.	3259 Nov 14 15:23	26°M55'36	1.43598 AU	Č	3260 Nov 08 08:16	0° ∡ ¹	
	3259 Nov 16 13:18	0° ∡ ¹			3260 Nov 29 15:48	0°రె	
evening rise	3259 Nov 22 21:31	9° ∡ 758'33		evening max el	3260 Dec 04 22:08	5° ರ 56'41	22°32'59
-	3259 Dec 06 04:28	0°ರ		retrograde	3260 Dec 14 16:58	11° る 45'29	
evening max el	3259 Dec 23 04:25	22° る 22'48	21°16'19	evening set	3260 Dec 19 08:18	9° る 52'28	
retrograde	3259 Dec 31 21:14	27° る 32'30		asc. node	3260 Dec 19 19:33	9° පි 28'08	
asc. node	3260 Jan 02 22:31	27° る 09'23		inferior conj	3260 Dec 24 16:57	3° ප 31'00	1°36'17
evening set	3260 Jan 05 00:53	25° ප 55'51		minimum elong	3260 Dec 24 14:57	3° る 37'54	1°35'31

minimum elong	3262 Nov 23 05:36	1° √ 17'53	0°06'58	evening max el	3263 Oct 13 12:38	16° M .54'11	26°15'37
transit middle	3262 Nov 23 05:36	1° х 17′53	0°06'58	retrograde	3263 Oct 26 05:35	24°M04'35	20 10 37
transit begin	3262 Nov 23 03:05	1° ∡ 26'05	0 00 20	evening set	3263 Nov 01 13:33	21°M28'16	
transit end	3262 Nov 23 08:06	1° ₹ 09'42		min. Earth dist.	3263 Nov 05 18:01		0.66494 AU
asc. node	3262 Nov 23 13:38	0° х 51'42		inferior conj	3263 Nov 07 06:37	15°ML10'27	
	3262 Nov 24 05:41	30°RM		minimum elong	3263 Nov 07 08:22	15°M05'05	1°04'17
morning rise	3262 Nov 28 19:01	25°M20'17		asc. node	3263 Nov 10 10:42	11°M32'21	
direct	3262 Dec 02 06:49	24°M09'56		morning rise	3263 Nov 13 03:41	9°M21'48	
morning max el	3262 Dec 09 13:45	28°M16'38	19°35'19	direct	3263 Nov 16 05:14	8°M28'21	
	3262 Dec 11 04:30	0° ∡ ″		morning max el	3263 Nov 22 23:18	12°M11'54	18°44'18
greatest brilliancy	3262 Dec 22 17:37	15° ∡ ¹44'40	-0.7m		3263 Dec 05 21:51	0°⊀	
desc. node	3262 Dec 31 01:24	28° ≯ 23'11		morning set	3263 Dec 14 04:04	12° ₹ 59'21	
	3263 Jan 01 02:34	5°0		desc. node	3263 Dec 17 22:26	18° ₹ 55'45	
morning set	3263 Jan 03 12:59	3° る 45'17			3263 Dec 24 23:26	0° ප	
max. Earth dist.	3263 Jan 16 00:58	23° る 17'27	1.44456 AU				
				superior conj	3263 Dec 30 11:14	8° る 37'12	-1°18'30
superior conj	3263 Jan 20 05:42	29° る 59'10	-1°51'52	minimum elong	3263 Dec 30 02:23	8° る 02'26	1°17'30
minimum elong	3263 Jan 19 22:27	29° る 30'05	1°51'22	max. Earth dist.	3263 Dec 29 18:08	7° る 30'03	1.45150 AU
	3263 Jan 20 05:55	0° ≈			3264 Jan 12 23:14	0° ≈	
evening rise	3263 Feb 03 02:27	22° ≈ 48'56		evening rise	3264 Jan 15 00:06	3°≈15'52	
	3263 Feb 07 08:47	0° ∀		greatest brilliancy	3264 Jan 22 04:44	14° ≈ 49'20	-0.9m
asc. node	3263 Feb 19 12:55	18° ¥ 50′24			3264 Feb 01 05:20	0° ∀	
evening max el	3263 Feb 21 20:26	21°) 27'30	18°18'44	evening max el	3264 Feb 05 07:29	4°) € 54'24	18°48'26
retrograde	3263 Feb 28 07:21	24°) 56'03		asc. node	3264 Feb 06 09:59	5°) € 57'57	
evening set	3263 Mar 03 06:50	24°) €08'23		retrograde	3264 Feb 12 00:48	8°) (40′01	
inferior conj	3263 Mar 09 06:13	18°) (44′50	3°39'13	evening set	3264 Feb 15 06:28	7° H 39'59	2021150
minimum elong	3263 Mar 09 06:10	18°) (44′57	3°39'14	inferior conj	3264 Feb 20 22:34	1°) 59'02	
min. Earth dist.	3263 Mar 11 16:20	16°) €01'21	0.63763 AU	minimum elong	3264 Feb 20 21:08	2° H 03'27	3°31'41
morning rise	3263 Mar 15 04:40	12°) 37'39 9°) 51'52		min. Earth dist.	3264 Feb 22 17:03	29°≈48'14	0.65401 AU
direct desc. node	3263 Mar 22 01:56 3263 Mar 29 00:33	12° X 10'20		mamina risa	3264 Feb 22 13:11 3264 Feb 26 11:22	30°R≈ 25°≈47'31	
morning max el	3263 Apr 04 20:33	12 X 10 20	27020112	morning rise direct	3264 Mar 04 02:16	23 ≈4731 22°≈56'09	
morning max er	3263 Apr 15 01:31	17)(40 44 0°Υ	27 36 13	desc. node	3264 Mar 14 21:37	22 ≈30 09 28°≈25'57	
	3263 May 03 19:33	0°8		desc. node	3264 Mar 16 13:47	20 ≈ 2337 0° H	
morning set	3263 May 09 15:34	11° 8 08'55		morning max el	3264 Mar 17 06:17	0°) 40′55	26°53'10
max. Earth dist.	3263 May 14 17:22	21° 8 31'46	1.33068 AU	morning max ci	3264 Apr 08 01:59	0°Υ	20 33 10
max. Earth dist.	3203 May 11 17.22	21 031 10	1.55000710	morning set	3264 Apr 22 01:40	24° Υ 34'28	
superior conj	3263 May 17 12:08	27° 8 26'04	-0°10'31	morning sec	3264 Apr 24 20:35	0°8	
minimum elong	3263 May 17 12:39	27° 8 28'52		max. Earth dist.	3264 Apr 26 10:31	3° 8 09'05	1.34228 AU
behind sun begin	3263 May 17 08:34	27° 8 07'01					
behind sun end	3263 May 17 16:44	27° 8 50'45		superior conj	3264 Apr 30 13:31	11° 8 36'25	-0°39'03
asc. node	3263 May 18 12:12	29° 8 35'16		minimum elong	3264 Apr 30 15:33	11° 8 47'00	0°38'38
	3263 May 18 16:48	0° Ⅱ		asc. node	3264 May 04 09:16	19° 8 38'40	
evening rise	3263 May 24 14:23	12° Ⅱ 39'59		evening rise	3264 May 08 00:25	27° 8 17'03	
	3263 Jun 02 10:01	0 \circ \odot			3264 May 09 07:53	$\Pi^{\circ}0$	
evening max el	3263 Jun 16 00:17	18° 5 49'57	22°55'20	evening max el	3264 May 27 20:06	29° Ⅱ 27'33	21°22'56
desc. node	3263 Jun 24 23:47	24° 5 °45'23			3264 May 28 09:44	0 \circ \odot	
retrograde	3263 Jun 29 08:40	25° © 29'02		retrograde	3264 Jun 08 22:45	5°524'07	
evening set	3263 Jul 02 19:37	25° © 02'51		desc. node	3264 Jun 10 20:47	5° © 15'39	
min. Earth dist.	3263 Jul 10 09:07	21° 5 641'07	0.55450 AU	evening set	3264 Jun 11 07:19	5° © 11'24	
inferior conj	3263 Jul 11 22:13	20° © 47'33	-4°19'19	inferior conj	3264 Jun 20 16:45	1° © 12'03	-2°47'58
minimum elong	3263 Jul 11 14:40	20° © 58'28	4°17'45	minimum elong	3264 Jun 20 09:20	1°522'26	
morning rise	3263 Jul 20 12:03	16° © 55'39		min. Earth dist.	3264 Jun 20 20:32	1° © 06'45	0.54863 AU
direct	3263 Jul 23 09:56	16° © 35'41			3264 Jun 22 20:49	30°RⅡ	
morning max el	3263 Aug 03 09:58	21° © 41'59	20°42'56	morning rise	3264 Jun 29 11:56	27° Ⅱ 15'33	
	3263 Aug 10 07:56	0°N		direct	3264 Jul 02 20:14	26° Ⅱ 51'16	
asc. node	3263 Aug 14 11:27	6° Ω 39'09			3264 Jul 11 22:31	0°95	22015147
morning set	3263 Aug 22 13:41	22° Ω 14'11		morning max el	3264 Jul 15 09:24	2°547'49	22°15'47
	3263 Aug 26 07:34	0° m		asc. node	3264 Jul 31 08:31	25°546'20	
superior conj	3263 Aug 30 01:44	7° m 45'41	1°44'42	morning set	3264 Aug 02 12:43 3264 Aug 05 23:48	0° Ω 7° Ω 04'49	
minimum elong	3263 Aug 30 01:44 3263 Aug 30 01:28	7° mp 44'17	1°44'42 1°44'41	morning set	3204 Aug 03 23.48	1 0604 49	
max. Earth dist.	3263 Sep 03 20:39	17° Mp 20'41	1.35945 AU	superior conj	3264 Aug 13 03:56	22° Ω 18'00	1°39'56
evening rise	3263 Sep 03 20:39 3263 Sep 07 21:42	25° Mp 03'18	1.55775 AU	minimum elong	3264 Aug 13 02:27	22° Ω 10'13	1°39'51
- vennig 1130	3263 Sep 10 14:37	0° ⊽		max. Earth dist.	3264 Aug 16 12:37	29° Ω 18'53	1.34381 AU
desc. node	3263 Sep 20 23:08	0 — 17° ≏ 24'28		Durin dist.	3264 Aug 16 20:38	0° m	1.5 .501 /10
Lost. Hour	3263 Sep 29 11:20	0°M		evening rise	3264 Aug 21 03:50	8° Mp 35'28	
				-0		, 55 =0	

	3264 Sep 02 03:07	0∘ ত			3265 Aug 08 14:58	0° m/y	
desc. node	3264 Sep 06 20:08	7° £ 25'21		desc. node	3265 Aug 24 17:08	26° Mp 57'14	
	3264 Sep 24 13:25	0°M			3265 Aug 26 21:01	0∘ ⊽	
evening max el	3264 Sep 25 01:16	0°M28'40	27°03'13	evening max el	3265 Sep 07 12:39	13° ≏ 43'31	27°25'28
retrograde	3264 Oct 08 07:27	7°ML45'36		retrograde	3265 Sep 21 03:08	21° ≏ 00'40	
evening set	3264 Oct 15 03:17	5°ML03'33		evening set	3265 Sep 28 06:45	18° ≏ 21'53	
min. Earth dist.	3264 Oct 19 01:09	1°M14'22	0.65327 AU	min. Earth dist.	3265 Oct 01 23:10	15° ≏ 06'35	0.63810 AU
	3264 Oct 20 03:29	30° ₹ Ω		inferior conj	3265 Oct 04 12:13	12° ≙ 29'55	-3°04'50
inferior conj	3264 Oct 21 01:45	28° ≏ 56'30	-2°05'06	minimum elong	3265 Oct 04 17:13	12° ≏ 17'04	3°03'09
minimum elong	3264 Oct 21 05:12	28° ≏ 46'40	2°03'44	morning rise	3265 Oct 11 04:55	7° £ 10'01	
morning rise	3264 Oct 27 07:58	23° ≏ 20′28		direct	3265 Oct 13 17:02	6° ≙ 39'05	
asc. node	3264 Oct 27 07:44	23° ≏ 20'44		asc. node	3265 Oct 14 04:47	6° ≏ 40'17	
direct	3264 Oct 30 01:33	22° ≏ 40'04		morning max el	3265 Oct 20 06:09	10° ≏ 04'19	17°52'34
morning max el	3264 Nov 05 13:42	26° ≙ 10′08	18°09'48		3265 Nov 02 15:58	0° M	
	3264 Nov 08 20:38	0° M ₊		morning set	3265 Nov 05 23:36	5° ™ 42'49	
morning set	3264 Nov 24 00:25	23°M42'11					
	3264 Nov 27 20:44	0° ∡ ¹		superior conj	3265 Nov 18 13:16	26°M54'19	0°14'37
desc. node	3264 Dec 03 19:28	9° ∡ ³36′56		minimum elong	3265 Nov 18 14:52	27°M00'49	0°14'24
				behind sun begin	3265 Nov 18 10:22	26°M42'27	
superior conj	3264 Dec 08 15:10	17° ∡ 17'36	-0°32'23	behind sun end	3265 Nov 18 19:21	27°M19'10	
minimum elong	3264 Dec 08 11:03	17° ∡ 701'19	0°31'49		3265 Nov 20 10:51	0° ∡ 7	
max. Earth dist.	3264 Dec 11 13:38	21° ∡ 755'34	1.45108 AU	desc. node	3265 Nov 20 16:28	0° ≯ 22'44	
	3264 Dec 16 17:18	0°ප		max. Earth dist.	3265 Nov 24 07:53	6° ∡ 13'50	1.44336 AU
evening rise	3264 Dec 24 23:43	12° る 52'01		evening rise	3265 Dec 04 09:52	22° ₹ 00′16	
	3265 Jan 05 02:11	0° ≈			3265 Dec 09 15:29	0°る	
greatest brilliancy	3265 Jan 06 13:02	2° ≈ 11'51	-0.7m		3265 Dec 30 22:12	0° ≈	
evening max el	3265 Jan 18 14:47	18° ≈ 24'40	19°34'52	evening max el	3266 Jan 01 16:48	1° ≈ 55'43	20°35'54
asc. node	3265 Jan 23 07:01	22° ≈ 00′23		retrograde	3266 Jan 09 19:54	6° ≈ 43'30	
retrograde	3265 Jan 25 21:49	22° ≈ 37'22		asc. node	3266 Jan 10 04:02	6° ≈ 42'52	
evening set	3265 Jan 29 10:49	21° ≈ 23'54		evening set	3266 Jan 13 17:43	5°≈15'30	
inferior conj	3265 Feb 03 22:16	15° ≈ 27'38	3°11'23		3266 Jan 18 11:02	30°Rる	
minimum elong	3265 Feb 03 20:01	15° ≈ 35'03	3°10'56	inferior conj	3266 Jan 19 02:43	29° る 06'38	
min. Earth dist.	3265 Feb 05 01:55	13° ≈ 56'53	0.66627 AU	minimum elong	3266 Jan 19 00:11	29° る 15'18	2°40'02
morning rise	3265 Feb 09 05:00	9° ≈ 14′20		min. Earth dist.	3266 Jan 19 17:03	28° る 17'40	0.67436 AU
direct	3265 Feb 15 08:28	6° ≈ 30'15		morning rise	3266 Jan 24 06:29	22° る 53'17	
morning max el	3265 Feb 27 15:35	13° ≈ 49′22	25°43'35	direct	3266 Jan 29 19:50	20° පි 25'30	
desc. node	3265 Mar 01 18:40	16°≈04'09		morning max el	3266 Feb 10 00:09	27° る 05'52	24°19'18
	3265 Mar 12 19:17	0° ∀			3266 Feb 12 17:15	0° ≈	
	3265 Mar 31 20:29	0° Υ		desc. node	3266 Feb 16 15:42	4°≈41'05	
morning set	3265 Apr 04 21:17	7° Y 13′28	1 25045 433		3266 Mar 06 10:48	0°) (50/55	
max. Earth dist.	3265 Apr 08 16:19	14° Ƴ 18'57	1.35845 AU	morning set	3266 Mar 17 20:55	18° ¥ 50'55	
	2265 4 14 06 50	2500010122	1007120	max. Earth dist.	3266 Mar 21 13:30	25°) €23'33	1.37830 AU
superior conj	3265 Apr 14 06:50	25° Y 18′22			3266 Mar 24 02:03	0 ° Υ	
minimum elong	3265 Apr 14 10:21	25° Y 36′01	1°06'53		22((M 20 12.42	8° Ƴ 22'56	1022144
1-	3265 Apr 16 14:28	0° と 9° と 33'17		superior conj	3266 Mar 28 12:43	8° γ 22'36 8° γ 44'33	
asc. node	3265 Apr 21 06:18	_		minimum elong	3266 Mar 28 17:13	8° γ 44'33 25° γ 35'26	1°33'09
evening rise	3265 Apr 22 06:42	11° ႘ 37'54 0° Ⅱ		evening rise	3266 Apr 06 06:46 3266 Apr 08 03:20	23 γ 33 26 29° Υ 14'37	
evening max el	3265 May 02 01:04 3265 May 10 03:09	10° Ⅱ 39'08	20°04'57	asc. node	3266 Apr 08 12:39	0° 8	
retrograde	3265 May 20 13:12	10 H 3908 15° H 43'02	20 0437	evening max el	3266 Apr 22 21:56	22° 8 31'46	19°06'12
evening set	3265 May 22 12:46	15° I I32'50		retrograde	3266 May 01 16:38	26° 8 48'03	17 00 14
desc. node	3265 May 28 17:50	13° I 10′45		evening set	3266 May 03 18:41	26° 8 34'34	
inferior conj	3265 May 31 13:07	11° II 33'24	-0°49'36	inferior conj	3266 May 12 00:43	22° 8 21'57	1°01'28
minimum elong	3265 May 31 10:48	11° II 36'52		minimum elong	3266 May 12 03:06	22° 8 17'52	1°00'38
min. Earth dist.	3265 Jun 02 09:11	10° I 27'35	0.55240 AU	min. Earth dist.	3266 May 15 00:30	20° 8 19'29	0.56504 AU
morning rise	3265 Jun 09 07:10	7° I 13'03	5.55240 AU	desc. node	3266 May 15 14:51	19° 8 56'08	0.2020T AU
direct	3265 Jun 13 08:46	6° Ⅱ 37'04		morning rise	3266 May 20 08:23	17° 8 26'22	
morning max el	3265 Jun 27 01:13	13° Ⅱ 20'45	23°58'22	direct	3266 May 25 09:21	16° 8 26'54	
	3265 Jul 09 21:09	0°9	25 5022	morning max el	3266 Jun 08 15:40	23° 8 46'34	25°36'34
asc. node	3265 Jul 18 05:33	15°917'34			3266 Jun 14 07:02	0°Ⅱ	
morning set	3265 Jul 21 11:28	21°959'41			3266 Jul 02 14:53	0ಂಣ ೧ π	
	3265 Jul 25 05:01	0°Ω		asc. node	3266 Jul 05 02:36	5° © 06'13	
		- 00		morning set	3266 Jul 05 23:02	6°953'37	
superior conj	3265 Jul 28 11:25	7° Ω 05'10	1°29'22				
minimum elong	3265 Jul 28 09:15	6°Ω53'26		superior conj	3266 Jul 12 22:00	22°500'15	1°13'56
max. Earth dist.	3265 Jul 30 13:35	11° Ω 35'01	1.33214 AU	minimum elong	3266 Jul 12 19:38	21°5647'18	1°13'35
evening rise	3265 Aug 04 21:29	22° Ω 40'33		max. Earth dist.	3266 Jul 13 21:23	24°508'21	1.32460 AU
5							

	2266 1 1 16 14 00	00.0			22/7 1 27 07 42	(0544155	0052150
evening rise	3266 Jul 16 14:09 3266 Jul 19 23:20	0° Ω 7° Ω 08'50		minimum elong max. Earth dist.	3267 Jun 27 07:42 3267 Jun 27 08:46	6°950'46	0°53'59 1.32108 AU
evening rise	3266 Aug 01 02:42	0°m)		evening rise	3267 Jul 27 08:46 3267 Jul 04 06:38	21°951'34	1.32108 AU
desc. node	3266 Aug 11 14:08	15° m) 48'00		evening rise	3267 Jul 04 06:00	0°Ω	
evening max el	3266 Aug 20 20:32	26° m 25'45	27°16'53		3267 Jul 26 11:16	0° m)	
evening max er	3266 Aug 25 03:02	0° ರ	27 1033	desc. node	3267 Jul 29 11:09	3° m)40'39	
retrograde	3266 Sep 03 16:18	ვ° <u>ჲ</u> 40'30		evening max el	3267 Aug 02 22:34	8° m) 24'45	26°35'06
evening set	3266 Sep 10 20:20	1° ≏ 17'02		retrograde	3267 Aug 16 21:42	15° m 36'08	
C	3266 Sep 12 14:56	30°R, M⊅		evening set	3267 Aug 23 15:25	13° Mp 41'21	
min. Earth dist.	3266 Sep 14 10:46	28° m 28'21	0.61975 AU	min. Earth dist.	3267 Aug 27 12:14	11° Mp 05'22	0.59933 AU
inferior conj	3266 Sep 17 11:03	25° m 43'33	-4°00'11	inferior conj	3267 Aug 30 18:49	8° m 28'38	-4°44'15
minimum elong	3266 Sep 17 16:47	25° m 30'25	3°58'42	minimum elong	3267 Aug 30 23:30	8° m 19'14	4°43'32
morning rise	3266 Sep 24 14:55	20°M/43'09		morning rise	3267 Sep 07 09:39	3° Mp 50'11	
direct	3266 Sep 27 00:14	20° Mp 18'30		direct	3267 Sep 09 19:08	3° m 29'11	
asc. node	3266 Oct 01 01:49	21°M 32'24		morning max el	3267 Sep 17 08:54	7° m 10'51	18°13'48
morning max el	3266 Oct 03 21:37	23° m 47'25	17°53'29	asc. node	3267 Sep 17 22:51	7° m 45'37	
	3266 Oct 08 20:55	0∘ ত			3267 Oct 01 23:21	0。 ⊽	
morning set	3266 Oct 19 19:21	18° ≏ 42'16		morning set	3267 Oct 03 05:55	2° £ 24'12	
	3266 Oct 26 02:22	0°M₊					
				superior conj	3267 Oct 12 16:01	19° ≙ 59'22	1°20'55
superior conj	3266 Oct 30 14:09	7°M50'12	0°53'26	minimum elong	3267 Oct 12 19:56	20° £ 17'06	1°20'30
minimum elong	3266 Oct 30 18:19	8°M08'04	0°52'54		3267 Oct 18 07:40	0°M	
max. Earth dist.	3266 Nov 06 21:53	20°M06'31	1.42936 AU	max. Earth dist.	3267 Oct 20 06:34	3°M20'55	1.41088 AU
desc. node	3266 Nov 07 13:28	21°M10'02		evening rise	3267 Oct 25 03:55	11°M29'01	
	3266 Nov 13 01:55	0°×7		desc. node	3267 Oct 25 10:29	11°M55'43	
evening rise	3266 Nov 13 22:19	1° ₹ 20'04			3267 Nov 06 01:27	0° ∡7 200 ∡702102	22007150
	3266 Dec 03 04:59	0°る	21949110	evening max el	3267 Nov 28 05:07	29° メ 03'03 0°る	23°06'59
evening max el	3266 Dec 15 13:14	15°る27'42 20°る54'44	21°48'10	ratragrada	3267 Nov 29 04:25	5° そ 08'23	
retrograde asc. node	3266 Dec 24 17:02 3266 Dec 28 01:04	20 3 34 44		retrograde	3267 Dec 08 11:40 3267 Dec 13 08:18	3°る08'23	
evening set	3266 Dec 28 01:04 3266 Dec 29 01:25	19 33422 19° る 11'09		evening set asc. node	3267 Dec 13 08.18 3267 Dec 14 22:05	3 00833 1° る 37'23	
inferior conj	3267 Jan 03 09:44	19 3 11 09	2°01'51	asc. node	3267 Dec 14 22:03 3267 Dec 16 07:13	1 ℃3723 30°R √	
minimum elong	3267 Jan 03 07:25	12 3 3304 13° る 01'07	2°01'03	inferior conj	3267 Dec 16 07:13 3267 Dec 18 17:27	26° √ 45'04	1°16'08
min. Earth dist.	3267 Jan 03 12:12	13° 3 0107	0.67859 AU	minimum elong	3267 Dec 18 15:48	26° × 50'48	1°15'29
morning rise	3267 Jan 08 13:15	6°₹41'16	0.07037710	min. Earth dist.	3267 Dec 18 08:59	27°×714'15	0.67926 AU
direct	3267 Jan 13 11:42	4° ਰ 34'44		morning rise	3267 Dec 23 23:11	20° √ 36'46	0.07920110
morning max el	3267 Jan 23 09:53	10° る 27'32	22°50'18	direct	3267 Dec 28 07:11	18° ≯ 53'02	
desc. node	3267 Feb 03 12:43	23° る 59'43		morning max el	3268 Jan 06 00:21	23° ₹ 57'51	21°25'36
	3267 Feb 07 19:58	0° ≈		Č	3268 Jan 11 07:05	8°0	
morning set	3267 Feb 26 18:17	29° ≈ 10′08		desc. node	3268 Jan 21 09:45	13° る 48'48	
-	3267 Feb 27 06:19	0° ℋ			3268 Feb 01 05:42	0° ≈	
max. Earth dist.	3267 Mar 03 08:41	6°) € 54'49	1.39996 AU	morning set	3268 Feb 06 10:45	8° ≈ 07'48	
				max. Earth dist.	3268 Feb 13 09:04	19° ≈ 18'42	1.42069 AU
superior conj	3267 Mar 11 02:51	20° ℋ 38'38	-1°54'41		3268 Feb 19 17:39	0° ∀	
minimum elong	3267 Mar 11 07:00	20°) 57′36	1°54'22				
	3267 Mar 16 03:42	0 ° $\mathbf{\gamma}$		superior conj	3268 Feb 20 20:15	1°) 54'33	-2°05'59
evening rise	3267 Mar 20 21:30	9° Ƴ 00'37		minimum elong	3268 Feb 20 21:38	2° ∺ 00'32	2°05'58
asc. node	3267 Mar 26 00:22	18° Ƴ 36'36		evening rise	3268 Mar 02 23:16	21°) 45'29	
_	3267 Apr 01 22:09	0° 8			3268 Mar 07 12:31	0° Υ	
evening max el	3267 Apr 06 01:55	4° 8 59'41	18°27'43	asc. node	3268 Mar 11 21:24	7° Y 32'52	
retrograde	3267 Apr 13 14:30	8° 8 42'26		evening max el	3268 Mar 19 11:48	17° ℃ 54'17	18°09'06
evening set	3267 Apr 15 22:54	8° 8 21'48	2022120	retrograde	3268 Mar 26 05:58	21°Υ19'49	
inferior conj	3267 Apr 23 09:22	3° 8 50'03		evening set	3268 Mar 28 20:40	20° Y 49'34	2012122
minimum elong	3267 Apr 26 10:51	3° 8 42'24 1° 8 05'41		inferior conj	3268 Apr 04 14:26	15° Υ 56'56 15° Υ 50'25	3°13'22 3°12'54
min. Earth dist.	3267 Apr 26 19:51		0.58391 AU	minimum elong	3268 Apr 04 17:14	13° \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	
morning rise	3267 Apr 28 07:58 3267 May 01 00:24	30° ₹Ƴ 28° Ƴ 22'28		min. Earth dist. morning rise	3268 Apr 07 21:15 3268 Apr 11 11:41	12° \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	0.60555 AU
desc. node	3267 May 01 00.24 3267 May 02 11:54	$26 12228$ $27^{\circ} \Upsilon 42'22$		direct	3268 Apr 18 03:32	7° Υ 58'38	
direct	3267 May 02 11.34 3267 May 07 00:25	$26^{\circ}\Upsilon 48'58$		desc. node	3268 Apr 18 08:57	7° Υ 58'46	
ance	3267 May 07 00:23 3267 May 15 23:23	0° 8		morning max el	3268 May 02 10:04	15° Υ 52'14	27°40'57
morning max el	3267 May 13 23:23 3267 May 21 09:50	4° 8 31'08	26°54'47	morning max or	3268 May 13 23:08	0° 8	21 1031
morning max or	3267 Jun 09 01:18	0° Ⅱ	20 577/		3268 May 31 13:09	0°U	
morning set	3267 Jun 20 08:52	21° II 40'44		morning set	3268 Jun 03 15:13	6° П 14'57	
asc. node	3267 Jun 21 23:37	25° I 106'08		asc. node	3268 Jun 07 20:41	15° Ⅱ 12'33	
	3267 Jun 24 05:59	0°95		max. Earth dist.	3268 Jun 09 20:05	19° ∏ 30'39	1.32154 AU
superior conj	3267 Jun 27 09:47	6° 9 56'23	0°54'22	superior conj	3268 Jun 10 21:03	21° Ⅱ 47'30	0°31'18

1 miletary 1 meno	inena or wiereary	110111 2100	11104811 3002 (o i), i istrodiciist	110 10 100 2020 1	, ра	50) 1
minimum elong	3268 Jun 10 19:41	21° II 40'02	0°31'00	minimum elong	3269 May 26 05:47	6° Ⅱ 26'35	0°05'21
Č	3268 Jun 14 14:47	0°ಅ		behind sun begin	3269 May 26 00:51	5° Ⅲ 59'51	
evening rise	3268 Jun 17 17:11	6°≌41'17		behind sun end	3269 May 26 10:43	6° Ⅲ 53′20	
C	3268 Jun 29 21:50	$0^{\circ}\Omega$		evening rise	3269 Jun 02 05:02	21° Ⅲ 31'33	
evening max el	3268 Jul 14 17:25	19° Ω 36'33	25°23'05	•	3269 Jun 06 07:31	0°ಅ	
desc. node	3268 Jul 15 08:11	20° Ω 11'11			3269 Jun 26 02:09	$0^{\circ}\Omega$	
retrograde	3268 Jul 28 17:05	26° Ω 42'41		evening max el	3269 Jun 26 07:07	0° Ω 12'04	23°51'13
evening set	3268 Aug 03 11:24	25° Ω 25'39		desc. node	3269 Jul 02 05:13	4° Ω 48'11	
min. Earth dist.	3268 Aug 08 05:22		0.57900 AU	retrograde	3269 Jul 10 00:23	7° Ω 05'43	
inferior conj	3268 Aug 11 08:06	20° Ω 35'14	-5°05'56	evening set	3269 Jul 14 08:25	6° Ω 24'20	
minimum elong	3268 Aug 11 08:57	20° Ω 33'45		min. Earth dist.	3269 Jul 20 17:26	3° Ω 21'30	0.56173 AU
morning rise	3268 Aug 19 08:52	16° Ω 19'19		inferior conj	3269 Jul 23 01:12	1°Ω56'49	
direct	3268 Aug 21 21:36	15° Ω 59'49		minimum elong	3269 Jul 22 20:15	2° Ω 04'23	
morning max el	3268 Aug 30 12:40	20°Ω04'36	18°54'49	8	3269 Jul 26 09:33	30°Rூ	
asc. node	3268 Sep 03 19:54	25° Ω 04'28	10 0	morning rise	3269 Jul 31 10:40	27° © 59'39	
use. Houe	3268 Sep 07 02:36	0° m)		direct	3269 Aug 03 04:54	27°5540'14	
morning set	3268 Sep 16 02:45	16° Mp 35'33		uncet	3269 Aug 10 07:43	0°Ω	
morning sec	3268 Sep 22 22:46	0∘ ʊ		morning max el	3269 Aug 13 06:06	2°Ω20'05	10°57'27
	3200 Sep 22 22.40	o –		asc. node	3269 Aug 21 16:58	13°Ω14'55	1) 3/2/
superior conj	3268 Sep 24 13:27	3° ჲ 05'49	1°37'23	asc. nouc	3269 Aug 30 17:12	0°M)	
minimum elong	3268 Sep 24 15:49		1°37'13	morning set	3269 Aug 31 06:38	1°Mp07'53	
max. Earth dist.	3268 Oct 01 11:24	15° £ 53'05	1.39028 AU	morning set	3209 Aug 31 00.36	1 11/07/33	
		13 ≥ 33 03 22° ₽ 41'58	1.39028 AU		22(0 0 00 01.1(1.60 m. 5.512.0	1944/20
evening rise	3268 Oct 05 08:51	0°M		superior conj minimum elong	3269 Sep 08 01:16	16° m 55'30 16° m 58'37	1°44'20 1°44'19
1 1	3268 Oct 09 17:19			C	3269 Sep 08 01:53	-	
desc. node	3268 Oct 11 07:30	2°M35'22		max. Earth dist.	3269 Sep 13 16:43	27° m 54'44	1.37008 AU
	3268 Oct 29 23:06	0° ⊼	2.102.612.5		3269 Sep 14 19:24	0° ™	
evening max el	3268 Nov 09 18:17	12° х 42'10	24°26'25	evening rise	3269 Sep 17 12:10	4° £ 57'24	
retrograde	3268 Nov 21 02:30	19° √ 19'57		desc. node	3269 Sep 28 04:32	23° Ω 04'48	
evening set	3268 Nov 26 12:48	17° ∡ 03'59			3269 Oct 02 15:50	0° M	
asc. node	3268 Nov 30 19:08	12° ∡ 15′56		evening max el	3269 Oct 23 06:34	26°M23'47	25°39'20
min. Earth dist.	3268 Dec 01 04:57	11° ∡ ′43′23	0.67645 AU	_	3269 Oct 27 09:48	0° ∡	
inferior conj	3268 Dec 02 00:05	10° ₹ 39'21	0°24'43	retrograde	3269 Nov 04 12:48	3° ∡ 124'54	
minimum elong	3268 Dec 01 23:29	10° ∡ ′41′20	0°24'28	evening set	3269 Nov 10 13:11	0° ≯ 754'40	
morning rise	3268 Dec 07 10:13	4° ∡ ³36'45			3269 Nov 11 13:07	30°RM	
direct	3268 Dec 11 04:59	3° ≯ 14'52		min. Earth dist.	3269 Nov 14 21:42	26° ™ 09'07	0.67022 AU
morning max el	3268 Dec 18 22:16	7° ∡ 39'15	20°11'33	inferior conj	3269 Nov 16 03:49	24°M33'09	
	3269 Jan 04 14:56	0°る		minimum elong	3269 Nov 16 04:38	24° M 30'34	0°30'53
desc. node	3269 Jan 07 06:48	3° る 59'27		asc. node	3269 Nov 17 16:12	22°M39'24	
morning set	3269 Jan 15 08:05	16° る 17'22		morning rise	3269 Nov 21 20:23	18° M 38'51	
	3269 Jan 24 02:02	0° ≈		direct	3269 Nov 25 03:39	17° ™ 36′04	
max. Earth dist.	3269 Jan 25 17:41	2° ≈ 38'19	1.43757 AU	morning max el	3269 Dec 02 04:04	21°M31'07	19°11'37
					3269 Dec 09 00:41	0° ∡ 7	
superior conj	3269 Jan 31 12:27	12° ≈ 01′09	-2°02'26	morning set	3269 Dec 25 10:17	24° ₰ 750'40	
minimum elong	3269 Jan 31 08:24	11° ≈ 44'32	2°02'16	desc. node	3269 Dec 25 03:49	24° ∡ ¹25'33	
	3269 Feb 11 04:28	0° ∀			3269 Dec 28 17:47	0°ප	
evening rise	3269 Feb 13 07:46	3°) (41′35		max. Earth dist.	3270 Jan 08 08:59	16° පි 38'41	1.44846 AU
asc. node	3269 Feb 26 18:27	25°) 55′29					
	3269 Mar 01 23:05	0 ° Υ		superior conj	3270 Jan 11 03:45	21° る 02'36	-1°39'51
evening max el	3269 Mar 03 00:17	1° Ƴ 06'48	18°09'48	minimum elong	3270 Jan 10 18:59	20° る 27'50	1°39'05
retrograde	3269 Mar 09 11:01	4° Y 30'23			3270 Jan 16 18:21	0° ≈	
evening set	3269 Mar 12 07:23	3° Ƴ 49'11		evening rise	3270 Jan 25 18:54	14° ≈ 42'18	
	3269 Mar 17 04:13	30°₽ . ₩			3270 Feb 04 02:36	0° ∀	
inferior conj	3269 Mar 18 12:22	28° ∺ 36′17	3°35'56	asc. node	3270 Feb 13 15:29	13°) 34′07	
minimum elong	3269 Mar 18 13:20	28°) 33′42	3°35'53	evening max el	3270 Feb 14 12:31	14° ¥ 29'56	18°29'10
min. Earth dist.	3269 Mar 21 07:02	25°) 40′27	0.62665 AU	retrograde	3270 Feb 21 01:10	18°) €04'30	
morning rise	3269 Mar 24 18:07	22°) 33′51		evening set	3270 Feb 24 03:12	17° ¥ 11'36	
direct	3269 Mar 31 15:56	19° ¥ 58′04		inferior conj	3270 Mar 01 23:05	11°) 40′05	3°37'56
desc. node	3269 Apr 05 06:00	20°) 58'31		minimum elong	3270 Mar 01 22:23	11°) (42′08	3°37'54
morning max el	3269 Apr 14 16:01	27° ¥ 55'25	27°49'51	min. Earth dist.	3270 Mar 04 02:25	9°) 09′26	0.64507 AU
-	3269 Apr 16 15:50	0° Y		morning rise	3270 Mar 07 16:58	5°) 30′35	
	3269 May 07 17:05	0°8		direct	3270 Mar 14 12:08	2°) 41′04	
morning set	3269 May 18 15:59	20° 8 29'51		desc. node	3270 Mar 23 03:03	6°) 13′01	
- U	3269 May 23 05:50	0°II		morning max el	3270 Mar 28 01:24		27°22'45
max. Earth dist.	3269 May 24 03:33	1° ∏ 55'49	1.32608 AU		3270 Apr 12 09:13	0° Υ	
asc. node	3269 May 25 17:44	5° Ⅱ 21'20			3270 Apr 30 03:16	0°8	
	•			morning set	3270 May 02 08:22	4° 8 16'13	
superior conj	3269 May 26 06:03	6° Ⅱ 27'59	0°05'24	max. Earth dist.	3270 May 07 03:03		1.33504 AU
1 · · · J	,						

aumorior comi	2270 May 10, 10:49	20° 8 50'48	0022121	aumorior coni	3271 Apr 24 09:03	4° 8 49'57	0051115
superior conj	3270 May 10 10:48			superior conj		_	
minimum elong	3270 May 10 11:56	20° 8 56'53	0°22'17	minimum elong	3271 Apr 24 11:44	5° 8 03'45	0°50'44
asc. node	3270 May 12 14:46	25° 8 27'41		asc. node	3271 Apr 29 11:49	15° 8 27'58	
	3270 May 14 17:40	0°II		evening rise	3271 May 02 00:57	20° 8 45'57	
evening rise	3270 May 17 16:15	6° Ⅱ 15'00			3271 May 06 15:08	Π °0	
	3270 May 30 10:51	0		evening max el	3271 May 20 22:18	21° ∏ 27'58	20°47'34
evening max el	3270 Jun 07 22:11	10°©38'14	22°14'45	retrograde	3271 Jun 01 08:46	27° Ⅱ 02'55	
desc. node	3270 Jun 19 02:16	16° © 55'08		evening set	3271 Jun 03 11:11	26° ∏ 52′21	
retrograde	3270 Jun 20 19:49	17° © 02'03		desc. node	3271 Jun 05 23:16	26° Ⅱ 14'08	
evening set	3270 Jun 23 17:41	16°5543'15		inferior conj	3271 Jun 12 18:27	22° ∏ 54'51	
min. Earth dist.	3270 Jul 02 04:14	13° © 05'13	0.55084 AU	minimum elong	3271 Jun 12 12:53	23° Ⅲ 02'47	1°57'02
inferior conj	3270 Jul 03 01:03	12° © 35'53	-3°45'50	min. Earth dist.	3271 Jun 13 16:17	22° Ⅲ 23'42	0.54901 AU
minimum elong	3270 Jul 02 16:45	12° © 47'36	3°43'38	morning rise	3271 Jun 21 14:10	18° Ⅲ 50′01	
morning rise	3270 Jul 11 17:44	8°\$544'56		direct	3271 Jun 25 04:32	18° Ⅲ 22'05	
direct	3270 Jul 14 19:19	8° © 23'51		morning max el	3271 Jul 08 07:27	24° ∏ 40′18	22°59'02
morning max el	3270 Jul 26 11:49	13° © 50'37	21°20'40	-	3271 Jul 13 04:58	0°€	
-	3270 Aug 07 10:11	$0^{\circ}\Omega$		asc. node	3271 Jul 26 11:03	21° © 21'44	
asc. node	3270 Aug 08 14:01	2° Ω 03'50			3271 Jul 30 17:14	$0^{\circ}\Omega$	
morning set	3270 Aug 15 15:01	15° £ 53′05		morning set	3271 Jul 31 01:56	0°Ω45'36	
	3270 Aug 22 08:43	0° m/					
	527011 48 22 00.15	v .y		superior conj	3271 Aug 07 03:52	15° Ω 54'25	1°36'06
superior conj	3270 Aug 22 23:09	1° m)15'01	1°43'27	minimum elong	3271 Aug 07 02:02	15°Ω44'38	1°35'57
minimum elong	3270 Aug 22 23:09 3270 Aug 22 22:19	1°10'40	1°43'26	max. Earth dist.	3271 Aug 07 02:02 3271 Aug 09 22:55	21°Ω49'13	1.33827 AU
max. Earth dist.	3270 Aug 22 22:19 3270 Aug 27 03:27	9° Mb 46'18	1.35230 AU	max. Earth dist.	· ·	0° m	1.33627 AU
	- C		1.55250 AU		3271 Aug 13 22:44	~	
evening rise	3270 Aug 31 09:43	18° Mp 04'27		evening rise	3271 Aug 14 21:10	1° m 51'33	
	3270 Sep 06 23:14	0∘ ʊ			3271 Aug 30 21:03	0° ʊ	
desc. node	3270 Sep 15 01:33	13° Ω 18'06		desc. node	3271 Sep 01 22:35	3° Ω 07'51	2701711
	3270 Sep 26 21:08	0°M		evening max el	3271 Sep 18 06:59	23° Ω 29'33	27°16'11
evening max el	3270 Oct 05 18:51	10°M02'30	26°38'24		3271 Sep 27 15:44	0° M	
retrograde	3270 Oct 18 18:00	17°M17'03		retrograde	3271 Oct 01 17:35	0° ™ 48'07	
evening set	3270 Oct 25 07:30	14°M37'01			3271 Oct 05 13:45	30°Ŗ 죠	
min. Earth dist.	3270 Oct 29 08:57	10°M27'28	0.66046 AU	evening set	3271 Oct 08 17:17	28° ≏ 06'03	
inferior conj	3270 Oct 31 02:42	8°M23'13	-1°30'21	min. Earth dist.	3271 Oct 12 12:29	24° ≏ 31'47	0.64716 AU
minimum elong	3270 Oct 31 05:10	8°M15'52	1°29'20	inferior conj	3271 Oct 14 18:27	22° ≏ 04'36	-2°30'42
asc. node	3270 Nov 04 13:14	3°M44'13		minimum elong	3271 Oct 14 22:36	21° ≙ 53'15	2°29'09
morning rise	3270 Nov 06 03:30	2°M39'51		morning rise	3271 Oct 21 05:01	16° ≏ 35′08	
direct	3270 Nov 09 01:20	1°M52'32		asc. node	3271 Oct 22 10:16	16° ≏ 09'39	
morning max el	3270 Nov 15 16:05	5°M29'06	18°27'33	direct	3271 Oct 23 19:50	15° ≏ 59'21	
	3270 Dec 02 15:05	0° ∡ ¹		morning max el	3271 Oct 30 07:44	19° ≏ 26'40	18°00'18
morning set	3270 Dec 05 13:28	4° ∡ ¹42'18			3271 Nov 07 04:59	0° M ₊	
desc. node	3270 Dec 12 00:50	15° ∡ 02'31		morning set	3271 Nov 16 21:55	16°M00'27	
					3271 Nov 25 08:30	0° ∡ ¹	
superior conj	3270 Dec 21 05:56	29° ∡ ³34'36	-0°59'48	desc. node	3271 Nov 28 21:50	5° ∡ 746′10	
minimum elong	3270 Dec 20 22:32	29° х 05'34					
8	3270 Dec 21 12:24	0°ਰ		superior conj	3271 Nov 30 15:45	8° ҂ ³34'32	-0°11'55
max. Earth dist.	3270 Dec 22 03:29	0° ට 59'11	1.45222 AU	minimum elong	3271 Nov 30 14:18	8° × ⁷ 28'43	
evening rise	3270 Bee 22 05:29 3271 Jan 06 06:44	24° පි 46'36	1.13222 110	behind sun begin	3271 Nov 30 06:58	7° √ 59'17	0 11 11
evening rise	3271 Jan 09 14:03	0°≈		behind sun end	3271 Nov 30 21:39	8° ∡ 58'07	
greatest brilliancy	3271 Jan 16 01:56	10°≈12'59	-0.8m	max. Earth dist.	3271 Dec 04 22:16	15° ₹ 22'01	1.44861 AU
evening max el	3271 Jan 28 22:07	27°≈58'40	19°06'13	max. Earth dist.	3271 Dec 04 22:10 3271 Dec 14 07:08	0°る	1.44001710
evening max ci	3271 Jan 31 03:52	0° \	19 00 13	evening rise	3271 Dec 14 07:08 3271 Dec 16 23:00	4°る06'39	
aca mada	3271 Jan 31 12:32	0° X 16'08		•	3271 Dec 10 23:00 3271 Dec 31 03:32	4 30039 25° る 40'10	0.600
asc. node				greatest brilliancy			-0.6m
retrograde	3271 Feb 04 20:36	1° H 55'10			3272 Jan 03 02:57	0°≈	10050114
evening set	3271 Feb 08 05:08	0°) (49'40		evening max el	3272 Jan 12 03:16	11°≈29'32	19°59'14
	3271 Feb 09 07:46	30°R≈	202424	asc. node	3272 Jan 18 09:34	15°≈46'23	
inferior conj	3271 Feb 13 18:57	25°≈01'44		retrograde	3272 Jan 19 18:19	15°≈56'34	
minimum elong	3271 Feb 13 17:06	25°≈07'38		evening set	3272 Jan 23 10:46	14° ≈ 37'18	
min. Earth dist.	3271 Feb 15 06:57	23° ≈ 07'23	0.65969 AU	inferior conj	3272 Jan 28 20:58	8° ≈ 35'27	2°59'29
morning rise	3271 Feb 19 04:44	18° ≈ 48'56		minimum elong	3272 Jan 28 18:32	8° ≈ 43'38	2°58'55
direct	3271 Feb 25 15:05	15° ≈ 59'20		min. Earth dist.	3272 Jan 29 18:51	7° ≈ 22'10	0.67022 AU
desc. node	3271 Mar 10 00:03	23° ≈ 07'32		morning rise	3272 Feb 03 02:03	2° ≈ 21'46	
morning max el	3271 Mar 10 11:22	23° ≈ 35'45	26°26'01		3272 Feb 07 00:45	30°Ŗる	
	3271 Mar 16 04:36	0°) €		direct	3272 Feb 08 23:47	29° る 43'27	
	3271 Apr 05 17:37	$0^{\circ}\Upsilon$			3272 Feb 11 01:02	0° ≈	
morning set	3271 Apr 15 12:54	17° Y 24'02		morning max el	3272 Feb 20 20:08	6° ≈ 48'06	25°08'46
max. Earth dist.	3271 Apr 19 15:22	25° Ƴ 17'47	1.34860 AU	desc. node	3272 Feb 24 21:04	11° ≈ 13′07	
	3271 Apr 22 00:03	9° 8			3272 Mar 09 21:10	0°) €	
	-						

morning set	3272 Mar 28 00:42	29°) 38′52		min. Earth dist.	3273 Jan 12 11:58		0.67674 AU
Dardh diad	3272 Mar 28 05:25	0° Υ 6° Υ 19'27	1 26652 AII	morning rise	3273 Jan 17 06:08 3273 Jan 22 13:18	16°る05'28 13°る46'07	
max. Earth dist.	3272 Mar 31 16:22	0 1 1927	1.36653 AU	direct morning max el	3273 Feb 02 04:39	13°84607 20° る 06'14	23°41'16
superior coni	2272 Apr 06 21:55	18° Ƴ 17'05	1010/05	desc. node	3273 Feb 02 04.39 3273 Feb 10 18:06	0°≈09'37	23 41 10
superior conj minimum elong	3272 Apr 06 21:55 3272 Apr 07 01:57	18° Υ 36'59		desc. node	3273 Feb 10 18:06 3273 Feb 10 15:08	0 ≈0937 0°≈	
minimum elong	1	0° 8	1 102/		3273 Mar 03 02:06	0 ≈ 0° ∺	
evening rise	3272 Apr 12 18:02 3272 Apr 15 04:51	4° 8 57'21		morning set	3273 Mar 03 02:00 3273 Mar 09 13:49	0 X 10° ¥ 44′26	
asc. node	3272 Apr 15 04:51	5° 8 17'31		max. Earth dist.	3273 Mar 13 11:36	10 X 44 20 17° X 30'48	1.38755 AU
asc. node	3272 Apr 13 08:31 3272 Apr 29 18:03	0° Ⅱ		max. Earth dist.	3273 Mar 13 11:30 3273 Mar 20 08:22	0° Υ	1.36733 AU
evening max el	3272 Apr 29 18:03 3272 May 02 10:36	2° I 157'27	19°37'32		32/3 Wai 20 08.22	0 1	
retrograde	3272 May 12 03:03	7° Ⅱ 39'16	17 37 32	superior conj	3273 Mar 20 21:42	1° Y ′02'38	-1°43'30
evening set	3272 May 12 03:03 3272 May 14 02:48	7° П 28'16		minimum elong	3273 Mar 21 02:17	1° Υ 24'09	1°43'01
inferior conj	3272 May 14 02:40 3272 May 22 20:01	3° П 24'53	0°00'11	evening rise	3273 Mar 30 01:20	18° Υ '42'03	1 45 01
minimum elong	3272 May 22 20:01 3272 May 22 20:01	3° П 24'53	0°00'11	asc. node	3273 Apr 02 05:53	24° Y '51'20	
transit middle	3272 May 22 20:01 3272 May 22 20:01	3° П 24'53	0°00'11	use. Houe	3273 Apr 05 00:14	0°8	
transit begin	3272 May 22 16:06	3° Д 31'03	0 0011	evening max el	3273 Apr 15 09:45	15° 8 06'19	18°47'20
transit end	3272 May 22 23:56	3° Ⅱ 18'41		retrograde	3273 Apr 23 13:55	19° 8 05'56	
desc. node	3272 May 22 20:16	3° ∏ 24'28		evening set	3273 Apr 25 18:45	18° 8 49'40	
min. Earth dist.	3272 May 25 06:08	1° Д 53'35	0.55682 AU	inferior conj	3273 May 03 16:15	14° 8 29'11	1°40'26
	3272 May 28 14:51	30°₽ 8		minimum elong	3273 May 03 19:38	14° 8 22'59	1°39'22
morning rise	3272 May 31 10:39	28° 8 49'50		min. Earth dist.	3273 May 06 22:39	12° 8 06'36	0.57256 AU
direct	3272 Jun 04 21:58	28° 8 05'07		desc. node	3273 May 09 17:18	10° 8 20'01	0.07200110
	3272 Jun 12 01:25	0°II		morning rise	3273 May 11 17:21	9° 8 19'25	
morning max el	3272 Jun 18 21:47	5° ∏ 06'23	24°41'37	direct	3273 May 17 04:54	8° 8 06'17	
	3272 Jul 06 15:52	0ಂ ತಾ		morning max el	3273 May 31 13:04	15° 8 36'15	26°13'14
asc. node	3272 Jul 12 08:05	11° © 01'11		morning mun vi	3273 Jun 12 04:15	0°II	20 13 1 .
morning set	3272 Jul 14 13:43	15°540'33			3273 Jun 28 18:38	0°©	
morning sec	3272 Jul 21 04:30	0° Ω		morning set	3273 Jun 29 00:44	0°932'09	
		* 00		asc. node	3273 Jun 29 05:08	0°955'19	
superior conj	3272 Jul 21 12:55	0° Ω 45'54	1°23'23				
minimum elong	3272 Jul 21 10:36	0° Ω 33'19	1°23'05	superior conj	3273 Jul 06 00:12	15° 9 541'58	1°06'07
max. Earth dist.	3272 Jul 23 03:03	4° Ω 12'58	1.32840 AU	minimum elong	3273 Jul 05 21:54	15° 5 29'19	1°05'43
evening rise	3272 Jul 28 18:41	16° Ω 08'02		max. Earth dist.	3273 Jul 06 12:58	16°952'15	1.32262 AU
<i>5</i>	3272 Aug 04 22:30	0° m/		evening rise	3273 Jul 12 23:09	0° Ω 43'34	
desc. node	3272 Aug 18 19:35	22° m/24'15		C	3273 Jul 12 14:49	$0^{\circ}\Omega$	
	3272 Aug 24 15:37	0° ٽ			3273 Jul 28 23:32	0° m	
evening max el	3272 Aug 30 17:24	6° £ 33'12	27°26'01	desc. node	3273 Aug 05 16:37	10° m 52'48	
retrograde	3272 Sep 13 10:43	13° ≏ 49'31		evening max el	3273 Aug 12 23:17	18° m 58'44	27°03'16
evening set	3272 Sep 20 15:23	11° ≏ 15'59		retrograde	3273 Aug 26 20:25	26° Mp 11'12	
min. Earth dist.	3272 Sep 24 06:25	8° £ 12'56	0.63055 AU	evening set	3273 Sep 02 21:38	23° m 58'41	
inferior conj	3272 Sep 27 00:25	5° £ 31'22	-3°29'13	min. Earth dist.	3273 Sep 06 13:34	21° Mp 17'23	0.61121 AU
minimum elong	3272 Sep 27 05:52	5° ≙ 17'58	3°27'32	inferior conj	3273 Sep 09 17:17	18° m 34'07	-4°20'50
morning rise	3272 Oct 03 21:47	0° ჲ 19'04		minimum elong	3273 Sep 09 22:52	18° m 22'02	4°19'37
	3272 Oct 04 23:37	30°R, Mp		morning rise	3273 Sep 17 01:51	13° m 42'34	
direct	3272 Oct 06 08:17	29° m 51'12		direct	3273 Sep 19 11:00	13° m 19'37	
	3272 Oct 07 16:46	0∘ 亚		asc. node	3273 Sep 25 04:20	15° m 37'44	
asc. node	3272 Oct 08 07:18	0° 亞 09'38		morning max el	3273 Sep 26 14:08	16° m 52'41	17°59'43
morning max el	3272 Oct 13 00:07	3° ₽ 17′20	17°50'41		3273 Oct 05 20:29	0∘ ⊽	
morning set	3272 Oct 29 06:46	28° ≏ 29'23		morning set	3273 Oct 12 09:27	11° ≏ 48'51	
	3272 Oct 30 03:22	0°M			3273 Oct 22 10:04	0° M	
superior conj	3272 Nov 10 01:02	18° M 44'47	0°32'22	superior conj	3273 Oct 22 13:03		1°06'31
minimum elong	3272 Nov 10 04:08	18° ™ 57'45	0°31'56	minimum elong	3273 Oct 22 17:22	0° M 32′02	1°05'59
desc. node	3272 Nov 14 18:53	26°M33'31		max. Earth dist.	3273 Oct 30 03:18	13°M11'29	1.42196 AU
max. Earth dist.	3272 Nov 16 15:02	29°M32'00	1.43812 AU	desc. node	3273 Nov 01 15:55	17°M20'35	
	3272 Nov 16 22:00	0° ∡		evening rise	3273 Nov 05 02:34	22°M53'05	
evening rise	3272 Nov 25 08:10	13° ∡ 15'44			3273 Nov 09 15:33	0° ∡ ″	
	3272 Dec 06 09:43	0°ಕ			3273 Nov 30 13:07	0°ಕ	
evening max el	3272 Dec 25 03:03	25° る 01'58	21°05'29	evening max el	3273 Dec 07 21:28	8° る 35'41	22°21'10
	3273 Jan 01 15:05	0° ≈		retrograde	3273 Dec 17 12:18	14° る 18'51	
retrograde	3273 Jan 02 16:06	0° ≈ 05'39		evening set	3273 Dec 22 01:49	12° る 28'13	
	3273 Jan 03 16:34	30°Ŗる		asc. node	3273 Dec 22 03:36	12° る 24'32	
asc. node	3273 Jan 04 06:34	29° る 51'32		inferior conj	3273 Dec 27 10:20	6° ろ 07'28	1°43'13
evening set	3273 Jan 06 18:14	28° る 31'14		minimum elong	3273 Dec 27 08:14	6° る 14'43	1°42'27
inferior conj	3273 Jan 12 02:46	22° る 18'17		min. Earth dist.	3273 Dec 27 08:01	6° る 15'28	0.67937 AU
minimum elong	3273 Jan 12 00:16	22° る 26'54	2°24'22	morning rise	3274 Jan 01 14:32	29° ∡ 757′11	

direct	3274 Jan 01 13:12 3274 Jan 06 06:46 3274 Jan 11 13:49	30°Ŗ ゙ 28° ゙ 700′24 0° る		inferior conj minimum elong morning rise	3274 Dec 11 17:48 3274 Dec 11 16:32 3274 Dec 17 01:09	20° ₹ 00′25 20° ₹ 04′43 13° ₹ 54′27	0°54'58 0°54'27
morning max el	3274 Jan 11 13:49 3274 Jan 15 16:02	3° 云 31'39	22°13'21	direct	3274 Dec 17 01:05 3274 Dec 21 03:15	13 × 3427 12°×20'29	
desc. node	3274 Jan 28 15:09	19° る 42'40		morning max el	3274 Dec 29 09:37	17° × 07'02	20°52'37
	3274 Feb 04 18:02	0° ≈			3275 Jan 08 18:25	0°ප	
morning set	3274 Feb 17 22:51	20° ≈ 28'39		desc. node	3275 Jan 15 12:12	9° ප් 41'40	
max. Earth dist.	3274 Feb 23 09:04	29° ≈ 26′08	1.40914 AU	morning set	3275 Jan 28 05:05	28° る 59'37	
	3274 Feb 23 17:06	0° ∀			3275 Jan 28 20:32	0° ≈	
				max. Earth dist.	3275 Feb 05 13:05	12° ≈ 15'31	1.42843 AU
superior conj	3274 Mar 03 03:45	12° ¥ 55′12					
minimum elong	3274 Mar 03 07:05	13° ∺ 10′05	2°00'47	superior conj	3275 Feb 12 10:51	23° ≈ 42′16	
	3274 Mar 12 11:07	$0^{\circ}\mathbf{\Upsilon}$		minimum elong	3275 Feb 12 10:10	23° ≈ 39′25	2°06'36
evening rise	3274 Mar 13 11:08	1° Υ 52'13			3275 Feb 16 03:15	0° ∀	
asc. node	3274 Mar 20 02:56	14° Υ 03'49	10015110	evening rise	3275 Feb 24 06:10	14°) € 17'58	
evening max el	3274 Mar 29 16:40	27° Y 47'10	18°17'18	1	3275 Mar 05 06:09	0°Υ 2°Ω47112	
. 1	3274 Apr 01 11:05	0°8		asc. node	3275 Mar 06 23:59	2° Υ 47'13	10007100
retrograde	3274 Apr 05 20:01	1° と 20'54 0° と 56'22		evening max el	3275 Mar 13 03:59	10° Υ 50'23 14° Υ 13'44	18°07'00
evening set	3274 Apr 08 07:09 3274 Apr 10 09:33	0°O36'22 30°RΥ		retrograde evening set	3275 Mar 19 17:56 3275 Mar 22 10:58	13° Y 39'06	
inferior conj	3274 Apr 15 10:01	30 K 1 26° Υ 15'21	2°48'27	inferior conj	3275 Mar 28 22:50	8° Υ 37'43	3°25'50
minimum elong	3274 Apr 15 10:01 3274 Apr 15 13:35	26° Υ 07'41	2°47'40	minimum elong	3275 Mar 29 00:52	8° Υ 32'39	3°25'35
min. Earth dist.	3274 Apr 13 13:33 3274 Apr 18 20:11	23°\cdot\cdot\cdot\cdot\cdot\cdot\cdot\cdot	0.59299 AU	min. Earth dist.	3275 Apr 01 01:09	5° Υ 35'10	0.61471 AU
morning rise	3274 Apr 10 20:11 3274 Apr 22 17:23	20° Υ 37'10	0.57277710	morning rise	3275 Apr 04 13:03	2° Υ 41'25	0.01471710
desc. node	3274 Apr 26 14:21	19° Υ 04'49		direct	3275 Apr 11 08:25	0° Υ 19'41	
direct	3274 Apr 29 01:03	18° Υ 48'32		desc. node	3275 Apr 13 11:23	0°Υ32'35	
morning max el	3274 May 13 09:55	26° Ƴ 36′07	27°18'56	morning max el	3275 Apr 25 13:04	8° Y 16'35	27°49'19
S	3274 May 16 15:05	0°8		Č	3275 May 12 04:19	0°8	
	3274 Jun 05 15:29	$\Pi^{\circ}0$		morning set	3275 May 28 13:38	29° 8 42'14	
morning set	3274 Jun 13 09:22	15° Ⅲ 15′07			3275 May 28 17:05	$\Pi^{\circ}0$	
asc. node	3274 Jun 16 02:12	20° Ⅲ 59′01		asc. node	3275 Jun 02 23:15	11° II 07'00	
				max. Earth dist.	3275 Jun 03 11:09	12° Ⅱ 11'29	1.32296 AU
superior conj	3274 Jun 20 11:59	0° © 36'52	0°44'58				
minimum elong	3274 Jun 20 10:09	0°526'49	0°44'36	superior conj	3275 Jun 04 22:30	15° Ⅱ 24'09	0°20'36
max. Earth dist.	3274 Jun 20 01:01	29° Ⅱ 36'30	1.32081 AU	minimum elong	3275 Jun 04 21:34	15° ∏ 19'02	0°20'24
	3274 Jun 20 05:17	0°9		evening rise	3275 Jun 11 19:25	0°9520'50	
evening rise	3274 Jun 27 08:07	15° © 30'24			3275 Jun 11 15:31	0°©	
	3274 Jul 04 13:47	0°N			3275 Jun 28 02:38	0°N	0.40.4.510.0
desc. node	3274 Jul 23 13:38	28° Ω 13'49		evening max el	3275 Jul 07 13:59	11° Ω 29'41	24°45'28
evening max el	3274 Jul 25 06:56 3274 Jul 25 22:09	0°Mp 0°Mp36′49	26°07'36	desc. node	3275 Jul 10 10:39 3275 Jul 21 12:26	14°Ω00'03 18°Ω32'54	
retrograde	3274 Aug 08 21:36	7° Mp 46'17	20 07 30	retrograde evening set	3275 Jul 26 16:59	18 δι 32 34	
evening set	3274 Aug 08 21:30 3274 Aug 15 07:18	6° M) 06'37		min. Earth dist.	3275 Aug 01 01:18	17 δ2 31 30	0.57104 AU
min. Earth dist.	3274 Aug 19 10:47	3° mp 31'02	0.59056 AU	inferior conj	3275 Aug 01 01:10 3275 Aug 03 22:08	12° Ω 50'51	
inferior conj	3274 Aug 22 17:30	1° m 03'30		minimum elong	3275 Aug 03 20:35	12°Ω53'23	
minimum elong	3274 Aug 22 20:56	0° m 57'02	4°56'39	morning rise	3275 Aug 12 02:48	8° Ω 44'06	
C	3274 Aug 24 03:43	30°R€		direct	3275 Aug 14 17:28	8° Ω 24'57	
morning rise	3274 Aug 30 12:45	26° Ω 35'01		morning max el	3275 Aug 23 22:20	12° Ω 43′11	19°18'54
direct	3274 Sep 01 23:25	26° Ω 14'48		asc. node	3275 Aug 29 22:27	20° Ω 02′50	
	3274 Sep 09 20:44	0° m			3275 Sep 04 20:06	0° ™	
morning max el	3274 Sep 09 22:36	0° Mp 04′27	18°28'42	morning set	3275 Sep 10 00:56	10° Mp 04'55	
asc. node	3274 Sep 12 01:23	2° m 20'29					
morning set	3274 Sep 26 00:47	25° m 44'04		superior conj	3275 Sep 18 04:02	26° Mp 15'00	1°41'23
	3274 Sep 28 05:54	0∘ ⊽		minimum elong	3275 Sep 18 05:39	26° Th 22'53	1°41'19
	2274 0 + 04 22 54	100 0 4010 4	1020110	E d E	3275 Sep 20 02:36	0∘ ʊ	1 201 40 411
superior conj	3274 Oct 04 23:54	12° Ω 48'24		max. Earth dist.	3275 Sep 24 13:59	8° £ 22'40	1.38140 AU
minimum elong max. Earth dist.	3274 Oct 12 10:07	13° ♀ 03'53 26° ♀ 07'48	1°28'52 1.40219 AU	evening rise desc. node	3275 Sep 28 08:30 3275 Oct 06 09:58	15° £ 07'57 28° £ 39'50	
man. Earth tist.	3274 Oct 12 10:07 3274 Oct 14 16:17	26° ±2 07′48 0° M	1.40417 AU	uese, node	3275 Oct 06 09:58 3275 Oct 07 06:02	28° ± 239′50 0° ™	
evening rise	3274 Oct 14 10.17 3274 Oct 16 17:41	3°M27'35			3275 Oct 07 00:02 3275 Oct 28 14:55	0° ⊼	
desc. node	3274 Oct 10 17:41 3274 Oct 19 12:57	8°ML03'57		evening max el	3275 Nov 03 00:12	5° ∡ 751'47	24°58'45
acce. node	3274 Oct 17 12:57 3274 Nov 02 21:57	0° ⊼		retrograde	3275 Nov 14 18:41	12° × ⁷ 41'40	50 15
evening max el	3274 Nov 20 11:47	22° х 11'44	23°41'05	evening set	3275 Nov 20 10:53	10°×719'15	
retrograde	3274 Dec 01 05:31	28° ₹ 32'11		min. Earth dist.	3275 Nov 24 23:39	5° √ 13'15	0.67411 AU
evening set	3274 Dec 06 07:55	26° ₹ '25'05		inferior conj	3275 Nov 25 23:24	3° ₹ 755'06	0°01'29
asc. node	3274 Dec 09 00:38	23° ∡ ³35′27		minimum elong	3275 Nov 25 23:22	3° ₹ 55'14	0°01'28
min. Earth dist.	3274 Dec 11 04:41	20° х 45′09	0.67844 AU	transit middle	3275 Nov 25 23:22	3° х 55′14	0°01'28

4	2275 N 25 20-27	49.704119			2276 N 02 00.54	2.49 m 0.612.7	
transit begin	3275 Nov 25 20:37	4° ∡ *04'18		evening set	3276 Nov 03 08:54	24°M06'37	
transit end	3275 Nov 26 02:07	3° ∡ ¹46'10		min. Earth dist.	3276 Nov 07 14:26	19°M36'02	0.66642 AU
asc. node	3275 Nov 25 21:40	4° ≯ 00'48		inferior conj	3276 Nov 09 01:18	17°M47'44	
	3275 Nov 29 04:01	30°RM		minimum elong	3276 Nov 09 02:48	17°M43'06	0°55'23
morning rise	3275 Dec 01 12:02	27°M55'37		asc. node	3276 Nov 11 18:43	14°M35'08	
direct	3275 Dec 05 01:34	26°M42'22		morning rise	3276 Nov 14 21:08	11°M57'26	
	3275 Dec 11 12:46	0°⊀		direct	3276 Nov 18 00:07	11° ML 01'37	
morning max el	3275 Dec 12 11:00	0° ∡ ¹53'26	19°44'13	morning max el	3276 Nov 24 19:34	14°M47'46	18°50'51
greatest brilliancy	3275 Dec 25 15:55	18° ∡ 19'57	-0.7m		3276 Dec 06 03:06	0° ∡ ¹	
desc. node	3276 Jan 02 09:14	29° ₹ 59'36		morning set	3276 Dec 16 12:24	16° ∡ 12′00	
	3276 Jan 02 09:20	5°0		desc. node	3276 Dec 19 06:14	20° ҂ ³30'32	
morning set	3276 Jan 07 01:12	7° る 09'56			3276 Dec 25 07:25	8°0	
max. Earth dist.	3276 Jan 19 00:14	25°る52'28	1.44296 AU	max. Earth dist.	3276 Dec 31 17:03	10°る02'36	1.45097 AU
	3276 Jan 21 14:18	0° ≈					
	3270 Vali 21 11.10	0		superior conj	3277 Jan 01 23:25	12° る 01'59	-1°24'36
superior conj	3276 Jan 23 15:56	3° ≈ 19'34	-1°55'17	minimum elong	3277 Jan 01 14:20	11° る 26'17	
minimum elong	3276 Jan 23 09:26	2°≈53'23		minimum ciong	3277 Jan 01 14:20 3277 Jan 13 07:07	0°≈	1 2337
_		25°≈51'14	1 34 34		3277 Jan 13 07:07 3277 Jan 17 07:08	6°≈26'33	
evening rise	3276 Feb 06 06:03			evening rise			
	3276 Feb 08 16:40	0° ∀			3277 Feb 01 04:28	0°) {	10040155
asc. node	3276 Feb 21 21:01	20°) 52'48		evening max el	3277 Feb 07 04:09	7°) (34'45	18°42'55
evening max el	3276 Feb 24 16:43	24°) €08'31	18°15'48	asc. node	3277 Feb 07 18:02	8° ₩ 08'59	
retrograde	3276 Mar 02 03:17	27° ¥ 35′17		retrograde	3277 Feb 13 19:57	11°)(17'01	
evening set	3276 Mar 05 01:57	26°) 49′20		evening set	3277 Feb 17 00:41	10°) 18'48	
inferior conj	3276 Mar 11 02:42	21° ∺ 28'34	3°38'55	inferior conj	3277 Feb 22 17:40	4°) 40′15	3°33'52
minimum elong	3276 Mar 11 02:54	21°) 27'59	3°38'54	minimum elong	3277 Feb 22 16:25	4°) 44′05	3°33'45
min. Earth dist.	3276 Mar 13 15:08	18°) 41′17	0.63494 AU	min. Earth dist.	3277 Feb 24 14:26	2°) €24'06	0.65183 AU
morning rise	3276 Mar 17 02:55	15° ¥ 22'30			3277 Feb 26 17:38	30°R≈	
direct	3276 Mar 24 00:39	12°) 38'44		morning rise	3277 Feb 28 07:41	28° ≈ 29'15	
desc. node	3276 Mar 30 08:26	14°) €33'50		direct	3277 Mar 06 23:54	25°≈38'01	
morning max el	3276 Apr 06 20:45	20°) (36′00	27°42'15		3277 Mar 16 12:58	0°) €	
morning man er	3276 Apr 14 23:17	0°Υ	27 .210	desc. node	3277 Mar 17 05:27	0°) 34'32	
	3276 May 04 05:21	0°8		morning max el	3277 Mar 20 06:25	3°) €25'04	27°01'//3
morning set	3276 May 11 11:12	13° 8 46'12		morning max cr	3277 Apr 09 08:00	0°Υ	27 01 43
•			1 22025 ATT		•	27° Υ 17'54	
max. Earth dist.	3276 May 16 15:26	24° 8 24'48	1.32935 AU	morning set	3277 Apr 24 23:04		
	227634 10 05 57	200 4 50102	0006117	E d E e	3277 Apr 26 08:27	0° 8	1 24026 444
superior conj	3276 May 19 05:57	29° 8 58'03		max. Earth dist.	3277 Apr 29 10:24	6° 8 08'18	1.34026 AU
minimum elong	3276 May 19 06:16	29° 8 59'42	0°06'13				
behind sun begin	3276 May 19 01:21	29° 8 33'17		superior conj	3277 May 03 08:18	14° 8 12'25	
behind sun end	3276 May 19 11:11	0° Ⅱ 26′09		minimum elong	3277 May 03 10:06	14° 8 21'49	0°34'18
	3276 May 19 06:19	Π $\circ 0$		asc. node	3277 May 06 17:20	21° 8 19'56	
asc. node	3276 May 19 20:18	1° Ⅱ 15′15		evening rise	3277 May 10 17:39	29° 8 48'19	
evening rise	3276 May 26 07:13	15° Ⅱ 08'47			3277 May 10 19:53	Π $\circ 0$	
	3276 Jun 02 17:40	0 \circ \odot			3277 May 28 12:36	0 \circ \odot	
evening max el	3276 Jun 18 03:21	21° © 57'27	23°09'46	evening max el	3277 May 30 21:48	2° © 31'51	21°35'56
desc. node	3276 Jun 26 07:41	27°537'08		retrograde	3277 Jun 12 05:41	8°535'48	
retrograde	3276 Jul 01 14:35	28°9540'47		desc. node	3277 Jun 13 04:42	8° © 33'41	
evening set	3276 Jul 05 06:44	28°911'17		evening set	3277 Jun 14 17:12	8°521'52	
min. Earth dist.	3276 Jul 12 12:48	24°954'50	0.55610 AU	inferior conj	3277 Jun 24 02:38	4°920'56	-3°04'20
inferior conj	3276 Jul 14 07:06	23°953'05		minimum elong	3277 Jun 23 18:47	4°931'54	
minimum elong	3276 Jul 14 00:05	24°903'21		min. Earth dist.	3277 Jun 23 23:55	4°924'45	0.54893 AU
morning rise	3276 Jul 14 00:03 3276 Jul 22 19:49	24 3 0321 20° 9 00'13	4 27 33	morning rise	3277 Jul	0°\$26'39	0.54693 AU
•				•			
direct	3276 Jul 25 16:44	19°5540'26	20020122	direct	3277 Jul 06 03:48	0°903'20	22001104
morning max el	3276 Aug 05 10:47	24°939'46	20°30'32	morning max el	3277 Jul 18 11:44	5° © 51'56	22°01'04
	3276 Aug 10 04:52	0 $^{\circ}\Omega$		asc. node	3277 Aug 02 16:33	27°533'49	
asc. node	3276 Aug 15 19:31	8° Ω 30'57			3277 Aug 03 23:15	$0^{\circ}\Omega$	
morning set	3276 Aug 24 06:58	24° Ω 43′08		morning set	3277 Aug 08 16:41	9° Ω 32'47	
	3276 Aug 26 20:25	0° m)					
				superior conj	3277 Aug 15 21:43	24° Ω 47'45	1°41'03
superior conj	3276 Aug 31 20:33	10° m 18'22	1°44'49	minimum elong	3277 Aug 15 20:24	24° Ω 40'48	1°40'59
minimum elong	3276 Aug 31 20:30	10° m 18'06	1°44'50		3277 Aug 18 09:38	0° m	
max. Earth dist.	3276 Sep 05 20:46	20° m 15'49	1.36208 AU	max. Earth dist.	3277 Aug 19 11:28	2°m/12'29	1.34591 AU
evening rise	3276 Sep 09 20:08	27° m/46'53		evening rise	3277 Aug 24 00:11	11° m 13'02	
5	3276 Sep 11 01:11	0° ಹ		3	3277 Sep 03 10:49	0∘ ಹ	
desc. node	3276 Sep 11 01:11 3276 Sep 22 06:59	0 — 19° ⊆ 03'01		desc. node	3277 Sep 09 10:49 3277 Sep 09 04:00	ი — 9° ჲ 07'31	
acce. node	3276 Sep 29 14:02	0°M		acce. node	3277 Sep 09 04:00 3277 Sep 24 23:09	0° ™	
avaning may al	3276 Sep 29 14.02 3276 Oct 15 12:32	19°M33'16	26°06'47	avanina may al		3°M09'05	26°57'30
evening max el		26°M41'24	20 004/	evening max el	3277 Sep 28 01:06	10°M25'20	20 37 30
retrograde	3276 Oct 28 02:52	20 11641 24		retrograde	3277 Oct 11 05:29	10 11623 20	

evening set	3277 Oct 17 23:51	7° M L43'33		evening set	3278 Oct 01 05:05	21° ≏ 04'49	
min. Earth dist.	3277 Oct 17 23:31 3277 Oct 21 22:39	3°M49'10	0.65529 AU	min. Earth dist.	3278 Oct 04 03:05	17° Ω 44'54	0.64056 AU
inferior conj	3277 Oct 21 22:37 3277 Oct 23 21:27	1°M34'42		inferior conj	3278 Oct 07 09:22	17 — 1737 15° Ω 10'17	
minimum elong	3277 Oct 24 00:39	1°M25'30		minimum elong	3278 Oct 07 03:22 3278 Oct 07 14:10	14° ⊆ 57'46	
minimum crong	3277 Oct 25 06:57	30°R <u>₽</u>	1 21 10	morning rise	3278 Oct 14 00:28	9° £ 47'57	2 3 1 20
asc. node	3277 Oct 29 15:45	26° ₽ 10'46		direct	3278 Oct 14 00:20 3278 Oct 16 13:12	9° £ 15'53	
morning rise	3277 Oct 30 02:13	25° ⊆ 56'41		asc. node	3278 Oct 16 13:12 3278 Oct 16 12:47	9° £ 15'53	
direct	3277 Nov 01 20:52	25° ⊆ 14'34		morning max el	3278 Oct 23 01:47	12° £ 41'20	17°54'02
morning max el	3277 Nov 08 09:24	28° £ 45'51	18°13'50	morning max or	3278 Nov 03 23:53	0°M	17 3102
morning max or	3277 Nov 09 13:18	0°M	10 13 30	morning set	3278 Nov 08 23:53	8°M31'49	
morning set	3277 Nov 27 04:16	26°M41'23		morning set	3276 1107 00 23.33	0 11031 47	
morning sec	3277 Nov 29 05:01	0°×7		superior conj	3278 Nov 21 20:43	0° ∡ °04'16	0°07'54
desc. node	3277 Dec 06 03:14	11° × 710'30		minimum elong	3278 Nov 21 21:36	0° ₹ 07'53	0°07'46
dese. Hode	3211 BCC 00 03.14	11 × 1030		behind sun begin	3278 Nov 21 12:44	29°M31'49	0 07 40
superior conj	3277 Dec 12 02:04	20° ∡ ³37'35	0°30'41	behind sun end	3278 Nov 21 12:44 3278 Nov 22 06:28	0°×743'54	
minimum elong	3277 Dec 12 02:04 3277 Dec 11 21:01	20° 🖈 37'33' 20° 🖈 17'39	0°39'00	ochina san cha	3278 Nov 21 19:40	0° × ⁷	
max. Earth dist.	3277 Dec 11 21:01 3277 Dec 14 12:31	24° 🖈 27'41	1.45162 AU	desc. node	3278 Nov 21 19:40 3278 Nov 23 00:17	1° × 756'07	
max. Earm dist.		24 メ ・2 / 41	1.43102 AU	max. Earth dist.		8° √ 47'52	1.44491 AU
	3277 Dec 18 01:17				3278 Nov 27 07:01		1.44491 AU
evening rise	3277 Dec 28 09:38	16° පි 08'58		evening rise	3278 Dec 07 20:58	25° ₹ 19'25	
1 . 1111	3278 Jan 06 07:34	0° ≈	0.7		3278 Dec 10 22:11	ව°0	
greatest brilliancy	3278 Jan 09 06:44	4°≈32'26	-0.7m		3278 Dec 31 15:21	0°≈	
evening max el	3278 Jan 21 12:02	21°≈04'17	19°27'00	evening max el	3279 Jan 04 14:52	4°≈35'15	20°26'00
asc. node	3278 Jan 25 15:03	24° ≈ 22'02		retrograde	3279 Jan 12 14:44	9° ≈ 17'40	
retrograde	3278 Jan 28 16:38	25° ≈ 12'34		asc. node	3279 Jan 12 12:04	9° ≈ 17'36	
evening set	3278 Feb 01 04:27	24° ≈ 01′08		evening set	3279 Jan 16 11:06	7° ≈ 51'59	
inferior conj	3278 Feb 06 16:26	18° ≈ 06′50	3°15'10	inferior conj	3279 Jan 21 20:20	1° ≈ 44'45	2°45'56
minimum elong	3278 Feb 06 14:16	18° ≈ 13'54	3°14'47	minimum elong	3279 Jan 21 17:49	1°≈53'21	2°45'16
min. Earth dist.	3278 Feb 07 22:09	16° ≈ 30′00	0.66466 AU	min. Earth dist.	3279 Jan 22 12:35	0° ≈ 49'30	0.67339 AU
morning rise	3278 Feb 11 23:51	11° ≈ 53'39			3279 Jan 23 03:16	30°Ŗる	
direct	3278 Feb 18 05:10	9° ≈ 07'56		morning rise	3279 Jan 27 00:20	25° る 31'09	
morning max el	3278 Mar 02 15:56	16° ≈ 31'57	25°55'12	direct	3279 Feb 01 15:51	23° る 00'30	
desc. node	3278 Mar 04 02:28	18° ≈ 01'47		morning max el	3279 Feb 13 00:35	29° る 47'43	24°32'21
	3278 Mar 13 20:24	0° ₩			3279 Feb 13 05:25	0° ≈	
	3278 Apr 02 05:47	0° Y		desc. node	3279 Feb 18 23:29	6° ≈ 31'02	
morning set	3278 Apr 07 21:08	10° Ƴ 04'41			3279 Mar 07 17:16	0° ∀	
max. Earth dist.	3278 Apr 11 17:57	17° Ƴ 21'52	1.35575 AU	morning set	3279 Mar 21 00:06	21°) 52′11	
				max. Earth dist.	3279 Mar 24 15:53	28°) 24′16	1.37516 AU
superior conj	3278 Apr 17 02:58	27° Y 58'53	-1°03'16		3279 Mar 25 12:51	$0^{\circ}\mathbf{Y}$	
minimum elong	3278 Apr 17 06:16	28° Ƴ 15'36	1°02'41				
Č	3278 Apr 18 02:51	0°8		superior conj	3279 Mar 31 10:46	11° Y 09'15	-1°30'01
asc. node	3278 Apr 23 14:22	11° 8 16'09		minimum elong	3279 Mar 31 15:10	11° Y 30'36	1°29'26
evening rise	3278 Apr 25 00:37	14° 8 12'00		evening rise	3279 Apr 09 01:46	28° Ƴ 13'04	
e vennig rise	3278 May 03 05:41	0°II		overmig rise	3279 Apr 09 23:20	0°8	
evening max el	3278 May 13 02:58	13° I 37'17	20°15'24	asc. node	3279 Apr 10 11:25	0° 8 59'36	
retrograde	3278 May 23 19:26	18° Ⅱ 49'24		evening max el	3279 Apr 25 20:06	25° 8 23'41	19°13'43
evening set	3278 May 25 19:18	18° ∏ 39'18		retrograde	3279 May 04 20:16	29° 8 46'15	1, 15 .5
desc. node	3278 May 31 01:43	16° Ⅱ 48'58		evening set	3279 May 06 21:30	29° 8 33'36	
inferior conj	3278 Jun 03 21:47	14° ∏ 40'42	-1°07'49	inferior conj	3279 May 15 06:32	25° 8 23'39	0°46'11
minimum elong	3278 Jun 03 18:36	14° I I45'24		minimum elong	3279 May 15 08:23	25° 8 20'32	0°45'32
min. Earth dist.	3278 Jun 05 12:20	13° Ⅱ 43'56		desc. node	3279 May 17 22:43	23° 8 36'18	0 13 32
morning rise	3278 Jun 12 16:34	10° I I24'52	0.33124 AU	min. Earth dist.	3279 May 17 22:43 3279 May 18 03:19	23° 8 28'50	0.56268 AU
direct	3278 Jun 16 14:55	9° I I51'25		morning rise	3279 May 23 16:13	20° 8 33'14	0.30208 AC
morning max el	3278 Jun 30 04:23	16° Ⅱ 28'39	22042157	direct	3279 May 28 13:33	19° 8 37'57	
morning max er		0°95	23 42 37		•		25922140
1-	3278 Jul 11 00:07			morning max el	3279 Jun 11 18:40	26° ႘ 53'33 0°Ⅱ	25°22'49
asc. node	3278 Jul 20 13:36	17°501'46			3279 Jun 14 18:36		
morning set	3278 Jul 24 04:13	24° © 27'13		1	3279 Jul 04 02:04	0°95	
	3278 Jul 26 18:35	0 ° Ω		asc. node	3279 Jul 07 10:39	6°548'01	
	2270 1 1 21 212	00.00000	1021440	morning set	3279 Jul 08 15:54	9° © 21'22	
superior conj	3278 Jul 31 04:34	9° Ω 33'08	1°31'19		2270 1 17 11 17	240	101627
minimum elong	3278 Jul 31 02:28	9° Ω 21'50		superior conj	3279 Jul 15 14:50		1°16'35
max. Earth dist.	3278 Aug 02 11:02	14° Ω 24'56	1.33363 AU	minimum elong	3279 Jul 15 12:28	24°5914'26	1°16'13
evening rise	3278 Aug 07 16:21	25° Ω 13'37		max. Earth dist.	3279 Jul 16 17:55	26° © 55'28	1.32546 AU
_	3278 Aug 10 02:24	0° m)		_	3279 Jul 18 03:52	$0^{\circ}\Omega$	
desc. node	3278 Aug 27 01:02	28° m 44'28		evening rise	3279 Jul 22 17:10	9° Ω 38'54	
	3278 Aug 27 21:59	0∘ ⊽			3279 Aug 02 10:12	0°Щ	
evening max el	3278 Sep 10 12:41	16° ≏ 27'11	27°23'56	desc. node	3279 Aug 13 22:04	17° m 42'23	
retrograde	3278 Sep 24 02:14	23° £ 44'56		evening max el	3279 Aug 23 21:16	29° m 15'04	27°20'17

	3279 Aug 24 16:40	0∘ ত		desc. node	3280 Jul 30 19:05	5° Mp 45'23	
retrograde	3279 Sep 06 16:36	0 == 6° £ 30'31		evening max el	3280 Jul 30 19.03 3280 Aug 05 00:29	11°My21'51	26°43'29
evening set	3279 Sep 10 10.30 3279 Sep 13 21:02	ა <u></u> 3031 4° <u></u> 03'59		retrograde	3280 Aug 18 23:14	11 lly 21 31 18° Mp 33'27	20 43 29
min. Earth dist.	-	4 2 03 39 1° 2 11'56	0.62260 AU	•	•	=	
mm. Earm dist.	3279 Sep 17 11:24		0.02200 AU	evening set min. Earth dist.	3280 Aug 25 19:15	16° Mp 33'49	0.60244.411
::	3279 Sep 18 18:43	30°₹₩ 200 m 27/26	2052124		3280 Aug 29 14:27	13° Mp 56'54 11° Mp 17'56	0.60244 AU
inferior conj	3279 Sep 20 10:10	28° Mp 27'26		inferior conj	3280 Sep 01 20:30	-	
minimum elong	3279 Sep 20 15:53	28° Mp 14'07	3°50′51	minimum elong	3280 Sep 02 01:30	11° Mp 07'41	4°37'53
morning rise	3279 Sep 27 12:22	23° Th 23'55		morning rise	3280 Sep 09 09:43	6° TD 35'55	
direct	3279 Sep 29 21:50	22° m 58'35		direct	3280 Sep 11 19:00	6° Mp 14'29	10000106
asc. node	3279 Oct 03 09:50	23° m 54'25	15050111	morning max el	3280 Sep 19 05:45	9° m 53'43	18°09'26
morning max el	3279 Oct 06 17:38	26° m 26'39	17°52'11	asc. node	3280 Sep 19 06:55	9° m 56'31	
	3279 Oct 09 19:18	0∘ ⊽			3280 Oct 02 09:26	0∘ ⊽	
morning set	3279 Oct 22 17:02	21° Ω 23'50		morning set	3280 Oct 05 01:44	5° ഫ 00'31	
	3279 Oct 27 12:32	0°M			2200 0 + 14 16 02	220 0 4712 (1017100
	2270 N 02 17-26	100 m 401 3 0	0040117	superior conj	3280 Oct 14 16:03	22° Ω 47'26	1°17'29
superior conj	3279 Nov 02 17:36	10°M48'28	0°48'16	minimum elong	3280 Oct 14 20:07	23° £ 05'44 0° I L	1°17'02
minimum elong	3279 Nov 02 21:36	11°M05'27	0°47'43	T d E d	3280 Oct 18 17:50		1 41207 411
desc. node	3279 Nov 09 21:20	22°M43'37	1 42176 ATT	max. Earth dist.	3280 Oct 22 07:14	6°M05'52	1.41387 AU
max. Earth dist.	3279 Nov 09 21:39	22°M44'53	1.43176 AU	desc. node	3280 Oct 26 18:24	13°M29'52	
	3279 Nov 14 10:04	0° ⊀ ⁷		evening rise	3280 Oct 27 10:32	14°M35'20	
evening rise	3279 Nov 17 08:04	4° ∡ ³35′07			3280 Nov 06 07:37	0° ∡ 7	
	3279 Dec 04 07:58	0° ろ			3280 Nov 28 13:39	0° ろ	
evening max el	3279 Dec 18 12:10	18° ろ 07'19	21°36'51	evening max el	3280 Nov 30 04:43	1° 정 42'16	22°55'03
retrograde	3279 Dec 27 12:08	23° ろ 28'23		retrograde	3280 Dec 10 07:10	7° る 41'49	
asc. node	3279 Dec 30 09:06	22° る 43'22		evening set	3280 Dec 15 01:56	5° る 44'25	
evening set	3279 Dec 31 18:48	21° る 47'18		asc. node	3280 Dec 16 06:08	4° る 38'48	
inferior conj	3280 Jan 06 03:08	15° පි 30'26	2°08'12		3280 Dec 19 23:46	30°Ŗ ⋌ ¹	
minimum elong	3280 Jan 06 00:45	15° ⋜ 38'41	2°07'25	inferior conj	3280 Dec 20 10:53	29° ∡ ′21′38	1°23'29
min. Earth dist.	3280 Jan 06 07:20	15° ⋜ 15'51	0.67823 AU	minimum elong	3280 Dec 20 09:06	29° ∡ 27'48	1°22'47
morning rise	3280 Jan 11 06:31	9° ප 18'13		min. Earth dist.	3280 Dec 20 04:01	29° ∡ ¹45'19	0.67944 AU
direct	3280 Jan 16 07:14	7° る 08'12		morning rise	3280 Dec 25 16:08	23° х 12′43	
morning max el	3280 Jan 26 09:53	13° る 08'20	23°03'23	direct	3280 Dec 30 02:17	21° ∡ ¹25'32	
desc. node	3280 Feb 05 20:32	25° る 44'14		morning max el	3281 Jan 07 23:23	26° ∡ 36'49	21°37'37
	3280 Feb 08 23:02	0° ≈			3281 Jan 11 01:50	0°₹	
	3280 Feb 28 15:02	0° ℋ		desc. node	3281 Jan 22 17:36	15° る 29'17	
morning set	3280 Mar 01 01:43	2°) €23'36			3281 Feb 01 12:32	0° ≈	
max. Earth dist.	3280 Mar 05 10:37	9°) 48′18	1.39676 AU	morning set	3281 Feb 08 22:18	11° ≈ 32'19	
				max. Earth dist.	3281 Feb 15 10:07	22° ≈ 04'22	1.41783 AU
superior conj	3280 Mar 13 03:33	23°) 32′50	-1°52'02		3281 Feb 20 03:13	0°)	
minimum elong	3280 Mar 13 07:53	23°) € 52'47	1°51'40				
	3280 Mar 16 14:41	0 ° $\mathbf{\Upsilon}$		superior conj	3281 Feb 23 00:25	4°) 58′32	-2°05'07
evening rise	3280 Mar 22 18:06	11° Ƴ 43'13		minimum elong	3281 Feb 23 02:24	5° ₩ 07'12	2°05'04
asc. node	3280 Mar 27 08:27	20° Y 24'35		evening rise	3281 Mar 05 22:04	24°) 34′39	
	3280 Apr 01 22:01	9° 8			3281 Mar 08 21:14	0 ° Υ	
evening max el	3280 Apr 07 22:58	7° 8 46'45	18°32'12	asc. node	3281 Mar 14 05:28	9° Y 25′05	
retrograde	3280 Apr 15 15:10	11° 8 33'12		evening max el	3281 Mar 22 08:11	20° Y 37'55	18°10'36
evening set	3280 Apr 17 22:39	11° 8 13'47		retrograde	3281 Mar 29 04:17	24° Y ′04'59	
inferior conj	3280 Apr 25 11:55	6° 8 45'09	2°13'18	evening set	3281 Mar 31 18:09	23° Y 36'12	
minimum elong	3280 Apr 25 15:42	6° 8 37'43	2°12'15	inferior conj	3281 Apr 07 14:08	18° Ƴ 46'31	3°07'44
min. Earth dist.	3280 Apr 28 21:55	4° 8 05'39	0.58084 AU	minimum elong	3281 Apr 07 17:10	18° Ƴ 39'35	3°07'11
morning rise	3280 May 03 05:38	1° 8 21'55		min. Earth dist.	3281 Apr 10 22:07	15° Ƴ 45'19	0.60229 AU
desc. node	3280 May 03 19:44	1° 8 05'23		morning rise	3281 Apr 14 13:57	12° Ƴ 59'47	
	3280 May 07 13:08	30° ŖƳ		desc. node	3281 Apr 20 16:46	10° Ƴ 56′37	
direct	3280 May 09 02:42	29° Ƴ 53'42		direct	3281 Apr 21 04:02	10° Y 56′00	
	3280 May 10 16:33	8° 0		morning max el	3281 May 05 11:11	18° Ƴ 48'00	27°36'32
morning max el	3280 May 23 11:56	7° 8 33'12	26°45'01		3281 May 14 21:49	0° ႘	
	3280 Jun 09 07:24	$\Pi^{\circ}0$			3281 Jun 02 00:26	$\Pi^{\circ}0$	
morning set	3280 Jun 22 02:08	24° Ⅲ 09′54		morning set	3281 Jun 06 09:06	8° Ⅱ 46′18	
asc. node	3280 Jun 23 07:44	26° Ⅱ 46'45		asc. node	3281 Jun 10 04:47	16° Ⅱ 52'22	
	3280 Jun 24 19:41	0ಂತಾ		max. Earth dist.	3281 Jun 12 16:41	22° ∏ 18′52	1.32118 AU
superior conj	3280 Jun 29 02:35	9° 5 23'54	0°57'36	superior conj	3281 Jun 13 14:00	24° Ⅱ 15'57	0°35'00
minimum elong	3280 Jun 29 00:26	9° © 12'03	0°57'12	minimum elong	3281 Jun 13 12:30	24° Ⅱ 07'43	0°34'42
max. Earth dist.	3280 Jun 29 05:02	9° 5 37'28	1.32132 AU		3281 Jun 16 04:33	0 \circ \odot	
evening rise	3280 Jul 05 23:50	24° © 20'17		evening rise	3281 Jun 20 10:01	9° 5 09'20	
	3280 Jul 08 17:40	$0^{\circ}\Omega$			3281 Jul 01 03:46	0 ° Ω	
	3280 Jul 26 07:38	0°Щ		desc. node	3281 Jul 17 16:06	22° Ω 30′07	

evening max el	3281 Jul 17 20:26	22° Ω 40'30	25°35'28		3282 Jun 26 07:04	$0^{\circ}\Omega$	
retrograde	3281 Jul 31 20:05	29° Ω 47'25		evening max el	3282 Jun 29 10:22	3° Ω 18′51	24°05'30
evening set	3281 Aug 06 18:54	28° Ω 24'28		desc. node	3282 Jul 04 13:05	7° Ω 25'52	
min. Earth dist.	3281 Aug 11 08:29	25° Ω 45'24	0.58194 AU	retrograde	3282 Jul 13 05:16	10° Ω 15'32	
inferior conj	3281 Aug 14 12:44	23° Ω 30'51	-5°04'42	evening set	3282 Jul 17 18:50	9° Ω 29'21	
minimum elong	3281 Aug 14 14:21	23° Ω 27'58	5°04'39	min. Earth dist.	3282 Jul 23 20:53	6° Ω 30'38	0.56397 AU
morning rise	3281 Aug 22 12:06	19° Ω 11'42		inferior conj	3282 Jul 26 08:39	4° Ω 58'19	-4°55'46
direct	3281 Aug 25 00:17	18° Ω 52′00		minimum elong	3282 Jul 26 04:34	5° Ω 04'40	4°55'21
morning max el	3281 Sep 02 10:49	22° Ω 52′25	18°47'18	morning rise	3282 Aug 03 16:56	0° Ω 59'07	
asc. node	3281 Sep 06 03:59	27° Ω 06′23		direct	3282 Aug 06 10:12	0° Ω 39'48	
	3281 Sep 08 05:10	0° m)		morning max el	3282 Aug 16 05:53	5° Ω 13'28	19°46'49
morning set	3281 Sep 18 21:16	19° m 08'11		asc. node	3282 Aug 24 01:02	15° Ω 09'22	
	3281 Sep 24 10:40	0∘ ⊽			3282 Sep 01 04:50	0° Mp	
	2201 0 27 10 55	50.0 46110	1025121	morning set	3282 Sep 03 00:13	3° m 37'17	
superior conj	3281 Sep 27 10:55	5° Ω 46'19			2202 C 10 20-51	100 m 2010 E	1042140
minimum elong max. Earth dist.	3281 Sep 27 13:33 3281 Oct 04 12:41	5° £ 58'50 18° £ 44'59	1°35'20 1.39343 AU	superior conj	3282 Sep 10 20:51	19° Mp 30'05 19° Mp 34'27	1°43'48 1°43'47
evening rise	3281 Oct 04 12.41 3281 Oct 08 11:54	18 22 44 39 25° 2 38'18	1.39343 AU	minimum elong	3282 Sep 10 21:44 3282 Sep 16 06:59	19 11 √ 342/	1 434/
evening rise	3281 Oct 08 11:54 3281 Oct 11 02:13	25° 32 38°18 0° M		max. Earth dist.	3282 Sep 16 06:39 3282 Sep 16 17:25	0° 2 49'01	1.37294 AU
desc. node	3281 Oct 11 02:13 3281 Oct 13 15:25	4°ML10'34		evening rise	3282 Sep 10 17.23 3282 Sep 20 12:02	0 = 4901 7° £ 44'25	1.37294 AU
desc. node	3281 Oct 13 13:23 3281 Oct 31 00:07	0° 7		desc. node	3282 Sep 20 12:02 3282 Sep 30 12:26	7 = 44 23 24° £ 41'31	
evening max el	3281 Nov 12 18:10	15° ∡ 20'38	2401447	desc. Hode	3282 Sep 30 12.20 3282 Oct 03 21:54	0°M	
retrograde	3281 Nov 23 22:38	21° × 20 36	24 1447	evening max el	3282 Oct 05 21:34 3282 Oct 26 06:20	29°ML01'26	25°29'11
evening set	3281 Nov 29 06:53	19° × ⁷ 40'10		evening max er	3282 Oct 20 00:20 3282 Oct 27 06:53	0° √	23 27 11
asc. node	3281 Dec 03 03:10	15° 🗷 40 10		retrograde	3282 Nov 07 09:39	6° ∡ ¹00'07	
min. Earth dist.	3281 Dec 04 00:12	14° 🗷 14'36	0.67711 AU	evening set	3282 Nov 13 07:59	3° × 731'40	
inferior conj	3281 Dec 04 17:47	13°×715'26	0°32'52	evening sec	3282 Nov 16 16:15	30°RML	
minimum elong	3281 Dec 04 17:00	13°×18'04	0°32'32	min. Earth dist.	3282 Nov 17 17:33	28°M40'52	0.67135 AU
morning rise	3281 Dec 10 03:08	7° ∡ 12'01		inferior conj	3282 Nov 18 22:02	27°ML09'17	
direct	3281 Dec 13 23:47	5° х 47′03		minimum elong	3282 Nov 18 22:37	27°ML07'25	
morning max el	3281 Dec 21 20:10	10° х 16'39	20°21'44	asc. node	3282 Nov 20 00:13	25°M46'00	
Č	3282 Jan 05 19:54	8°0		morning rise	3282 Nov 24 13:32	21°ML13'38	
desc. node	3282 Jan 09 14:39	5° る 37'09		direct	3282 Nov 27 22:19	20°ML08'20	
morning set	3282 Jan 18 21:15	19° る 45'31		morning max el	3282 Dec 05 00:52	24°ML07'10	19°19'33
	3282 Jan 25 10:13	0° ≈		-	3282 Dec 10 00:14	0° ∡ ¹	
max. Earth dist.	3282 Jan 28 17:51	5°≈17'46	1.43538 AU	greatest brilliancy	3282 Dec 18 14:27	12° ∡ ¹22'39	-0.7m
				desc. node	3282 Dec 27 11:40	26° ₹ 101'02	
superior conj	3282 Feb 03 20:34	15° ≈ 15'56	-2°04'08	morning set	3282 Dec 28 21:02	28° ∡ 10′18	
minimum elong	3282 Feb 03 17:26	15° ≈ 02'59	2°04'03		3282 Dec 30 01:19	0°ಕ	
	3282 Feb 12 13:34	0° ∀		max. Earth dist.	3283 Jan 11 08:06	19° ට 12'11	1.44724 AU
evening rise	3282 Feb 16 09:28	6°) 39′08					
asc. node	3282 Mar 01 02:29	27° ¥ 53'35		superior conj	3283 Jan 14 15:06	24° පි 25'17	
	3282 Mar 02 14:44	0° Υ		minimum elong	3283 Jan 14 06:45	23°る52'02	1°43'51
evening max el	3282 Mar 05 20:29	3° Y ′48′32	18°08'26		3283 Jan 18 02:47	0° ≈	
retrograde	3282 Mar 12 07:44	7° Υ 11'40		evening rise	3283 Jan 28 23:59	17° ≈ 48′02	
evening set	3282 Mar 15 03:14	6° Ƴ 32'11			3283 Feb 05 08:34	0° ∀	
inferior conj	3282 Mar 21 09:52	1° Υ 22'05		asc. node	3283 Feb 15 23:31	15° ¥ 39′25	
minimum elong	3282 Mar 21 11:07	1° Υ 18'49	3°33'52	evening max el	3283 Feb 17 08:52	17° ¥ 10′05	18°25'07
i Palita	3282 Mar 22 17:10	30° ₹ ₩	0.62262.411	retrograde	3283 Feb 23 20:47	20° ¥ 42'25 19° ¥ 51'24	
min. Earth dist.	3282 Mar 24 06:35	28° ¥ 23'56	0.62362 AU	evening set	3283 Feb 26 21:53		3°38'41
morning rise direct	3282 Mar 27 17:42	25°) 20'59 22°) 48'34		inferior conj	3283 Mar 04 18:55	14° ¥ 22'36 14° ¥ 23'58	3°38'40
desc. node	3282 Apr 03 15:06 3282 Apr 07 13:48	22 X 48 34 23° X 33'17		minimum elong min. Earth dist.	3283 Mar 04 18:26 3283 Mar 07 00:37	14 X 23 38	0.64254 AU
desc. node	3282 Apr 07 13:48 3282 Apr 16 21:48	23 γ (3317 0° γ		morning rise	3283 Mar 10 14:18	8°) 13'44	0.04234 AU
morning max el	3282 Apr 10 21.48 3282 Apr 17 16:34		27°50'56	direct	3283 Mar 17 10:18	5° ∺ 25'16	
morning max ci	3282 Apr 17 10:34 3282 May 09 00:31	0° 8	27 30 30	desc. node	3283 Mar 25 10:50	8° H 29'21	
morning set	3282 May 07 00:31 3282 May 21 10:49	23° 8 04'28		morning max el	3283 Mar 31 01:39	13° ∺ 20′00	27°28'49
	3282 May 24 19:07	0°Ⅱ			3283 Apr 13 11:44	0° Υ	2, 2017
max. Earth dist.	3282 May 27 01:02	4° ∏ 47'09	1.32516 AU		3283 May 01 14:11	0°8	
asc. node	3282 May 28 01:49	7° П 00'50		morning set	3283 May 05 04:39	6° 8 55'34	
		0000		max. Earth dist.	3283 May 10 01:51	16° 8 48'42	1.33343 AU
superior conj	3282 May 28 23:26	8° I I58'05	0°09'28				
minimum elong	3282 May 28 22:59	8° Ⅱ 55'39	0°09'23	superior conj	3283 May 13 04:56	23° 8 23'43	-0°18'13
behind sun begin	3282 May 28 18:46	8° Ⅱ 32'46		minimum elong	3283 May 13 05:51	23° 8 28'37	
behind sun end	3282 May 29 03:12	9°Ⅱ18'32		asc. node	3283 May 14 22:50	27° 8 07'32	
evening rise	3282 Jun 04 21:46	23° ∏ 59'38			3283 May 16 06:58	$\Pi^{\circ}0$	
	3282 Jun 07 18:53	0 \circ \odot		evening rise	3283 May 20 09:11	8° Ⅱ 44'08	

	3283 May 31 13:09	0ංම			3284 May 07 01:31	0° I I	
evening max el	3283 Jun 11 00:37	13° 5 643'48	22°28'44	evening max el	3284 May 22 23:12	24° ∏ 28'58	20°59'36
desc. node	3283 Jun 21 10:04	19° 9 57'01	22 26 44	evening max er	3284 Jun 01 11:25	0°9	20 39 30
retrograde	3283 Jun 24 02:25	20°913'33		retrograde	3284 Jun 03 15:33	0° © 11'35	
evening set	3283 Jun 27 04:34	19° © 52'30		evening set	3284 Jun 05 19:41	0°500'29	
min. Earth dist.	3283 Jul 05 07:49	16°920'24	0.55190 AU	evening sec	3284 Jun 05 20:49	30°R I	
inferior conj	3283 Jul 06 10:32	15°542'29		desc. node	3284 Jun 07 07:06	29° II 40'58	
minimum elong	3283 Jul 06 02:22	15°954'06		inferior conj	3284 Jun 15 04:03	26° Ⅱ 02'45	-2°16'50
morning rise	3283 Jul 15 02:15	11° 9 51'37		minimum elong	3284 Jun 14 21:44	26° Ⅱ 11'40	
direct	3283 Jul 18 02:25	11°531'03		min. Earth dist.	3284 Jun 15 19:42	25° Ⅱ 40'36	0.54866 AU
morning max el	3283 Jul 29 13:20	16°950'36	21°07'13	morning rise	3284 Jun 23 23:42	22° Ⅱ 01'09	
-	3283 Aug 08 15:57	$0^{\circ}\Omega$		direct	3284 Jun 27 11:50	21° Ⅲ 34'38	
asc. node	3283 Aug 10 22:05	3° Ω 52'54		morning max el	3284 Jul 10 10:12	27° Ⅱ 45'35	22°43'47
morning set	3283 Aug 18 08:03	18° Ω 20'41			3284 Jul 12 15:41	0 \circ \odot	
	3283 Aug 23 21:58	0° m p		asc. node	3284 Jul 27 19:07	23° © 07'00	
					3284 Jul 31 05:43	$0^{\circ}\Omega$	
superior conj	3283 Aug 25 17:28	3° m 45'44	1°44'02	morning set	3284 Aug 01 18:42	3° Ω 12′22	
minimum elong	3283 Aug 25 16:49	3° Mp 42'23	1°44'01				
max. Earth dist.	3283 Aug 30 02:50	12° m 39'28	1.35467 AU	superior conj	3284 Aug 08 21:20	18° Ω 22'35	1°37'36
evening rise	3283 Sep 03 07:10	20° Mp 44'32		minimum elong	3284 Aug 08 19:37	18° Ω 13′28	1°37'28
	3283 Sep 08 09:01	0∘ ⊽		max. Earth dist.	3284 Aug 11 21:01	24° Ω 40′07	1.34009 AU
desc. node	3283 Sep 17 09:26	14° ≙ 57'33			3284 Aug 14 11:22	0° ™	
	3283 Sep 27 19:53	0° M ₊		evening rise	3284 Aug 16 16:49	4° ™ 26′29	
evening max el	3283 Oct 08 18:35	12°M41'10	26°30'51		3284 Aug 31 02:52	0∘ ত	
retrograde	3283 Oct 21 15:46	19°M54'42		desc. node	3284 Sep 03 06:27	4° £ 51'17	
evening set	3283 Oct 28 03:21	17° M .15'48		evening max el	3284 Sep 20 06:57	26° ≏ 11'00	27°12'15
min. Earth dist.	3283 Nov 01 05:48	13°M00'46	0.66209 AU		3284 Sep 24 19:41	0°M₊	
inferior conj	3283 Nov 02 21:46	11°ML00'24		retrograde	3284 Oct 03 16:11	3°M29'12	
minimum elong	3283 Nov 02 23:59	10°M53'45	1°20'20	evening set	3284 Oct 10 14:34	0°M47'00	
asc. node	3283 Nov 06 21:16	6°M41'31			3284 Oct 11 13:11	30° ₹ Ω	
morning rise	3283 Nov 08 21:14	5°M15'09		min. Earth dist.	3284 Oct 14 10:41		0.64934 AU
direct	3283 Nov 11 20:18	4°M25'48		inferior conj	3284 Oct 16 14:45	24° £ 43'27	
morning max el	3283 Nov 18 12:07	8°M04'41	18°33'04	minimum elong	3284 Oct 16 18:40	24° £ 32'36	2°20'07
	3283 Dec 03 22:16	0° ∡ 7		morning rise	3284 Oct 22 23:46	19° £ 11'33	
morning set	3283 Dec 08 19:54	7° х 48'46		asc. node	3284 Oct 23 18:19	18° £ 53'05	
desc. node	3283 Dec 14 08:42	16° ₹ 36'36		direct	3284 Oct 25 15:29	18° £ 34'14	10002117
	3283 Dec 22 20:35	0°₹		morning max el	3284 Nov 01 03:22	22° ₽ 02'26 0° M	18°03'16
aumorior comi	3283 Dec 24 18:04	2° る 58'29	1906141	morning got	3284 Nov 07 08:22 3284 Nov 19 00:15	18°M54'55	
superior conj minimum elong	3283 Dec 24 18:04 3283 Dec 24 10:01	2 03829 2° る 26'56	1°05'43	morning set	3284 Nov 25 17:21	10 1163433 0° √ 7	
max. Earth dist.	3283 Dec 24 10.01 3283 Dec 25 02:06	2 3 2030 3° 3 29'58	1.45214 AU	desc. node	3284 Nov 30 05:44	0 x ⁴ 7° x ⁴19'23	
evening rise	3284 Jan 09 15:12	28°る00'02	1.43214 AU	desc. Hode	3284 NOV 30 03.44	1 × 1923	
evening rise	3284 Jan 10 21:24	28 3 00 02 0° ≈		superior conj	3284 Dec 03 01:29	11° ∡ ′50′38	-0°19'10
greatest brilliancy	3284 Jan 18 15:11	0 ~ 12° ≈ 16'26	-0.8m	minimum elong	3284 Dec 02 23:06	11° х 30'38	0°18'49
greatest offinaley	3284 Jan 31 04:31	0° ∀	0.0111	max. Earth dist.	3284 Dec 06 21:11	17° х 1703	1.44965 AU
evening max el	3284 Jan 31 19:00	0° ₩ 38'07	18°59'39	man. Barm dist.	3284 Dec 14 14:51	0°る	1.1.500 110
asc. node	3284 Feb 02 20:32	2°) € 30'42	10 0, 3,	evening rise	3284 Dec 19 09:49	7° る 25'09	
retrograde	3284 Feb 07 15:34	4°) €30'38		greatest brilliancy	3285 Jan 02 02:14	28° る 17'55	-0.7m
evening set	3284 Feb 10 23:03	3° ¥ 27′07		e ,	3285 Jan 03 05:52	0° ≈	
C	3284 Feb 14 16:19	30° R ≈		evening max el	3285 Jan 14 00:58	14° ≈ 08'59	19°50'26
inferior conj	3284 Feb 16 13:37	27° ≈ 41'38	3°27'22	asc. node	3285 Jan 19 17:34	18° ≈ 12'50	
minimum elong	3284 Feb 16 11:54	27° ≈ 47'01	3°27'09	retrograde	3285 Jan 21 13:05	18° ≈ 30'43	
min. Earth dist.	3284 Feb 18 03:54	25° ≈ 41'17	0.65781 AU	evening set	3285 Jan 25 04:18	17° ≈ 13'31	
morning rise	3284 Feb 22 00:23	21° ≈ 29'10		inferior conj	3285 Jan 30 14:54	11° ≈ 13'38	3°03'54
direct	3284 Feb 28 12:25	18° ≈ 38'38		minimum elong	3285 Jan 30 12:31	11° ≈ 21'34	3°03'23
desc. node	3284 Mar 11 07:52	25° ≈ 10′25		min. Earth dist.	3285 Jan 31 14:47	9° ≈ 54'10	0.66896 AU
morning max el	3284 Mar 12 11:34	26° ≈ 18′27	26°35'55	morning rise	3285 Feb 04 20:31	5° ≈ 00'04	
	3284 Mar 15 21:44	0° ∀		direct	3285 Feb 10 20:20	2° ≈ 19'31	
	3284 Apr 06 01:32	$\mathbf{\gamma}_{0}$		morning max el	3285 Feb 22 20:30	9° ≈ 29'26	25°21'10
morning set	3284 Apr 17 11:13	20° Y 09'43		desc. node	3285 Feb 26 04:55	13° ≈ 06'37	
max. Earth dist.	3284 Apr 21 15:49	28° Y 17′08	1.34629 AU		3285 Mar 11 01:21	0° ∀	
	3284 Apr 22 12:28	$0^{\circ}S$			3285 Mar 29 15:41	0° Υ	
				morning set	3285 Mar 31 01:54	2° Y 33′26	
superior conj	3284 Apr 26 04:19	7° 8 26'47		max. Earth dist.	3285 Apr 03 18:22	9° Ƴ 20'57	1.36361 AU
minimum elong	3284 Apr 26 06:47	7° 8 39'28	0°46'25				
asc. node	3284 Apr 30 19:51	17° 8 08'47		superior conj	3285 Apr 09 18:51	20°Υ59'34	
evening rise	3284 May 03 18:23	23° 8 17'09		minimum elong	3285 Apr 09 22:43	21° Y 18'44	1°14'23

	3285 Apr 14 06:13	0°8		evening rise	3286 Apr 01 21:01	21° Y ′21'29	
evening rise	3285 Apr 17 23:12	7° 8 32'13		asc. node	3286 Apr 04 13:57	26° Υ 36'48	
asc. node	3285 Apr 17 16:54	7° 8 00'20		ase. node	3286 Apr 06 08:45	0°8	
use. Hode	3285 Apr 30 11:52	0°II		evening max el	3286 Apr 18 07:25	17° 8 55'37	18°53'30
evening max el	3285 May 05 09:46	5° Ⅱ 52'43	19°46'46	retrograde	3286 Apr 26 16:26	22° 8 00'50	10 23 30
retrograde	3285 May 15 08:15	10° Ⅱ 41'59	15 10 10	evening set	3286 Apr 28 20:16	21° 8 45'36	
evening set	3285 May 17 07:46	10° Ⅱ 31'22		inferior conj	3286 May 06 20:45		1°27'10
desc. node	3285 May 25 04:07	7° I 105'44		minimum elong	3286 May 06 23:50	_	1°26'10
inferior conj	3285 May 26 03:38	6° Ⅱ 29'38	-0°17'17	min. Earth dist.	3286 May 10 01:08	15° 8 12'04	0.56981 AU
minimum elong	3285 May 26 02:52	6° Ⅱ 30'50	0°17'00	desc. node	3286 May 12 01:09	13° 8 54'31	0.30701710
min. Earth dist.	3285 May 28 09:09	5° I 107'12	0.55510 AU	morning rise	3286 May 15 00:15	12° 8 23'02	
morning rise	3285 Jun 03 19:40	1° I I59'59	0.55510710	direct	3286 May 20 08:06	11° 8 14'57	
direct	3285 Jun 08 03:33	1° Ⅱ 18'31		morning max el	3286 Jun 03 15:49	18° 8 41'24	26°00'55
morning max el	3285 Jun 22 00:56	8° Ⅱ 13'46	24°26'36	morning max cr	3286 Jun 13 03:30	0°Ⅱ	20 00 33
morning max ci	3285 Jul 07 23:37	0°9	24 2030		3286 Jun 30 07:21	0° ©	
asc. node	3285 Jul 14 16:10	12° © 43'49		morning set	3286 Jul 01 17:47	3°900'03	
morning set	3285 Jul 17 06:31	18° © 07'34		asc. node	3286 Jul 01 17:47	2° © 35'59	
morning set	3285 Jul 17 00:31 3285 Jul 22 18:30	0°Ω		asc. node	3280 Jul 01 13.13	2 33339	
	3283 Jul 22 18.30	0 36		superior conj	3286 Jul 08 17:00	18° © 08'32	1°09'00
superior conj	3285 Jul 24 05:54	3° Ω 12'49	1°25'38	minimum elong	3286 Jul 08 14:40	17°955'43	1°08'37
	3285 Jul 24 03:38	3° Ω 00'29	1°25'21	max. Earth dist.		17 933 43 19°939'11	1.32325 AU
minimum elong				max. Earth dist.			1.32323 AU
max. Earth dist.	3285 Jul 26 00:11	7° Ω 01'38	1.32966 AU		3286 Jul 14 04:07	0°Ω	
evening rise	3285 Jul 31 13:06	18° Ω 39'21		evening rise	3286 Jul 15 16:42	3° Ω 12′23	
	3285 Aug 06 08:46	0° m/y			3286 Jul 30 04:05	0° m/y	
desc. node	3285 Aug 21 03:28	24° m 13'20		desc. node	3286 Aug 08 00:29	12° m 50'00	
	3285 Aug 25 10:25	0∘ ⊽		evening max el	3286 Aug 16 00:28	21° m 50'19	27°08'40
evening max el	3285 Sep 02 17:50	9° ≙ 18'51	27°26'28	retrograde	3286 Aug 29 21:02	29° m 03'25	
retrograde	3285 Sep 16 10:10	16° ≙ 35'16		evening set	3286 Sep 05 23:33	26° Mp 46'45	
evening set	3285 Sep 23 14:37	13° £ 59'44		min. Earth dist.	3286 Sep 09 14:45	24° m 03'13	0.61425 AU
min. Earth dist.	3285 Sep 27 06:06	10° £ 52'30	0.63326 AU	inferior conj	3286 Sep 12 17:24	21° Mp 19'06	
inferior conj	3285 Sep 29 22:22	8° ≏ 12'30	-3°20'41	minimum elong	3286 Sep 12 23:05	21°Mp06'33	4°12'28
minimum elong	3285 Sep 30 03:41	7° £ 59'14	3°18'58	morning rise	3286 Sep 20 00:20	16° Mp 24′25	
morning rise	3285 Oct 06 18:05	2° £ 57'24		direct	3286 Sep 22 09:31	16° Mp 00′55	
direct	3285 Oct 09 05:08	2° £ 28'29		asc. node	3286 Sep 27 12:25	17° m 53'53	
asc. node	3285 Oct 10 15:22	2° £ 38'25		morning max el	3286 Sep 29 10:25	19° m 32'15	17°57'09
morning max el	3285 Oct 15 19:49	5° £ 54'06	17°50'57		3286 Oct 07 02:57	0∘ ⊽	
	3285 Oct 31 12:51	0° M,		morning set	3286 Oct 15 06:13	14° ≏ 26'51	
morning set	3285 Nov 01 05:50	1° M .14'08			3286 Oct 23 20:36	0° M ₊	
superior conj	3285 Nov 13 06:43	21°M48'32	0°26'15	superior conj	3286 Oct 25 14:55	3° M 05'44	1°02'05
minimum elong	3285 Nov 13 09:21	21°M59'28	0°25'52	minimum elong	3286 Oct 25 19:13	3° M 24'30	1°01'32
desc. node	3285 Nov 17 02:47	28°MJ06'06		max. Earth dist.	3286 Nov 02 03:37	15° M 52′09	1.42461 AU
	3285 Nov 18 06:56	0° ∡ ¹		desc. node	3286 Nov 03 23:50	18°M53'23	
max. Earth dist.	3285 Nov 19 14:35	2° ∡¹ 07'17	1.44010 AU	evening rise	3286 Nov 08 11:03	26°M03'31	
evening rise	3285 Nov 28 19:00	16° ≮ ³33′00			3286 Nov 10 23:20	0° ∡ 7	
	3285 Dec 07 15:34	ರ°0			3286 Dec 01 12:46	8°0	
evening max el	3285 Dec 28 01:35	27° ⋜ 40'58	20°54'55	evening max el	3286 Dec 10 20:40	11° る 14'09	22°09'30
	3285 Dec 30 13:37	0° ≈		retrograde	3286 Dec 20 07:36	16° る 51'45	
retrograde	3286 Jan 05 11:00	2° ≈ 38'54		asc. node	3286 Dec 24 11:39	15° る 18'35	
asc. node	3286 Jan 06 14:37	2° ≈ 31'36		evening set	3286 Dec 24 19:18	15° る 03'33	
evening set	3286 Jan 09 11:37	1° ≈ 06'41		inferior conj	3286 Dec 30 03:42	8° る 43'35	1°50'03
	3286 Jan 10 17:49	30°R₹		minimum elong	3286 Dec 30 01:31	8° る 51'09	1°49'16
inferior conj	3286 Jan 14 20:17	24° පි 55'06	2°30'52	min. Earth dist.	3286 Dec 30 03:01	8° る 45'57	0.67916 AU
minimum elong	3286 Jan 14 17:46	25° る 03'47	2°30'07	morning rise	3287 Jan 04 07:37	2° る 32'45	
min. Earth dist.	3286 Jan 15 07:14	24° る 17'28	0.67601 AU	direct	3287 Jan 09 02:00	0° る 32'37	
morning rise	3280 Jan 13 U/.14	24 O1/20					
direct	3286 Jan 19 23:44	18° る 42'09	0.07001110	morning max el	3287 Jan 18 15:46	6° る 11'22	22°26'11
			0.07001110	morning max el desc. node	3287 Jan 18 15:46 3287 Jan 30 23:02	6° ට 11'22 21°ට24'41	22°26'11
morning max el	3286 Jan 19 23:44	18° ⋜ 42'09	23°54'36	-			22°26'11
morning max el	3286 Jan 19 23:44 3286 Jan 25 09:06 3286 Feb 05 04:58	18°る42'09 16°る19'46		desc. node	3287 Jan 30 23:02 3287 Feb 05 23:20	21° る 24'41	22°26'11
	3286 Jan 19 23:44 3286 Jan 25 09:06 3286 Feb 05 04:58 3286 Feb 11 13:08	18°る42'09 16°る19'46 22°る46'54 0°≈		-	3287 Jan 30 23:02 3287 Feb 05 23:20 3287 Feb 21 08:17	21° ප් 24'41 0°≈ 23°≈47'11	22°26'11
morning max el desc. node	3286 Jan 19 23:44 3286 Jan 25 09:06 3286 Feb 05 04:58 3286 Feb 11 13:08 3286 Feb 13 01:58	18°る42'09 16°る19'46 22°る46'54 0°≈ 1°≈56'23		desc. node morning set	3287 Jan 30 23:02 3287 Feb 05 23:20 3287 Feb 21 08:17 3287 Feb 25 02:28	21° ට 24'41 0° ≈ 23° ≈ 47'11 0° 升	
desc. node	3286 Jan 19 23:44 3286 Jan 25 09:06 3286 Feb 05 04:58 3286 Feb 11 13:08 3286 Feb 13 01:58 3286 Mar 04 09:54	18°정42'09 16°정19'46 22°정46'54 0°≈ 1°≈56'23 0°升		desc. node	3287 Jan 30 23:02 3287 Feb 05 23:20 3287 Feb 21 08:17	21° ට 24'41 0°≈ 23°≈47'11 0° 光	22°26'11 1.40598 AU
desc. node morning set	3286 Jan 19 23:44 3286 Jan 25 09:06 3286 Feb 05 04:58 3286 Feb 11 13:08 3286 Feb 13 01:58 3286 Mar 04 09:54 3286 Mar 12 18:49	18°♂42'09 16°♂19'46 22°♂46'54 0°≈ 1°≈56'23 0°升 13°升50'19	23°54'36	desc. node morning set max. Earth dist.	3287 Jan 30 23:02 3287 Feb 05 23:20 3287 Feb 21 08:17 3287 Feb 25 02:28 3287 Feb 26 10:56	21° ♂ 24'41 0°≈ 23°≈47'11 0° 光 2° 光 16'48	1.40598 AU
desc. node	3286 Jan 19 23:44 3286 Jan 25 09:06 3286 Feb 05 04:58 3286 Feb 11 13:08 3286 Feb 13 01:58 3286 Mar 04 09:54 3286 Mar 12 18:49 3286 Mar 16 14:14	18°♂42'09 16°♂19'46 22°♂46'54 0°≈ 1°≈56'23 0°升 13°升50'19 20°升29'34		desc. node morning set max. Earth dist. superior conj	3287 Jan 30 23:02 3287 Feb 05 23:20 3287 Feb 21 08:17 3287 Feb 25 02:28 3287 Feb 26 10:56 3287 Mar 06 05:54	21° ♂ 24'41 0° ≈ 23° ≈ 47'11 0° 米 2° 米 16'48 15° 米 52'56	1.40598 AU -1°58'57
desc. node morning set	3286 Jan 19 23:44 3286 Jan 25 09:06 3286 Feb 05 04:58 3286 Feb 11 13:08 3286 Feb 13 01:58 3286 Mar 04 09:54 3286 Mar 12 18:49	18°♂42'09 16°♂19'46 22°♂46'54 0°≈ 1°≈56'23 0°升 13°升50'19	23°54'36	desc. node morning set max. Earth dist.	3287 Jan 30 23:02 3287 Feb 05 23:20 3287 Feb 21 08:17 3287 Feb 25 02:28 3287 Feb 26 10:56 3287 Mar 06 05:54 3287 Mar 06 09:35	21° 3 24'41 0° ≈ 23° ≈ 47'11 0° ¥ 2° ¥ 16'48 15° ¥ 52'56 16° ¥ 09'31	1.40598 AU -1°58'57
desc. node morning set max. Earth dist.	3286 Jan 19 23:44 3286 Jan 25 09:06 3286 Feb 05 04:58 3286 Feb 11 13:08 3286 Feb 13 01:58 3286 Mar 04 09:54 3286 Mar 12 18:49 3286 Mar 16 14:14 3286 Mar 21 19:33	18°♂42'09 16°♂19'46 22°♂46'54 0°≈ 1°≈56'23 0° H 13° H 50'19 20° H 29'34 0° Y	23°54'36 1.38430 AU	desc. node morning set max. Earth dist. superior conj minimum elong	3287 Jan 30 23:02 3287 Feb 05 23:20 3287 Feb 21 08:17 3287 Feb 25 02:28 3287 Feb 26 10:56 3287 Mar 06 05:54 3287 Mar 06 09:35 3287 Mar 13 21:42	21°₹24'41 0°≈ 23°≈47'11 0° ₩ 2° ₩ 16'48 15° ₩ 52'56 16° ₩ 09'31 0° ♥	1.40598 AU -1°58'57
desc. node morning set	3286 Jan 19 23:44 3286 Jan 25 09:06 3286 Feb 05 04:58 3286 Feb 11 13:08 3286 Feb 13 01:58 3286 Mar 04 09:54 3286 Mar 12 18:49 3286 Mar 16 14:14	18°♂42'09 16°♂19'46 22°♂46'54 0°≈ 1°≈56'23 0°升 13°升50'19 20°升29'34	23°54'36 1.38430 AU -1°40'09	desc. node morning set max. Earth dist. superior conj	3287 Jan 30 23:02 3287 Feb 05 23:20 3287 Feb 21 08:17 3287 Feb 25 02:28 3287 Feb 26 10:56 3287 Mar 06 05:54 3287 Mar 06 09:35	21° 3 24'41 0° ≈ 23° ≈ 47'11 0° ¥ 2° ¥ 16'48 15° ¥ 52'56 16° ¥ 09'31	1.40598 AU -1°58'57

	3287 Apr 01 00:40	0°B			3288 Feb 17 12:58	0°) €	
evening max el	3287 Apr 01 13:21	0° 8 31'56	18°20'28	evening rise	3288 Feb 27 06:07	17° ₩ 09'52	
retrograde	3287 Apr 08 19:43	4° 8 08'32			3288 Mar 05 11:59	0°Υ	
evening set	3287 Apr 11 05:52	3° 8 45'28		asc. node	3288 Mar 08 08:00	4° Υ 41'06	
S	3287 Apr 17 10:06	30° ₹ Υ		evening max el	3288 Mar 15 00:14	13° Ƴ 32'23	18°07'19
inferior conj	3287 Apr 18 11:20	29° Y °07'40	2°40'14	retrograde	3288 Mar 21 15:28	16° Ƴ 56'12	
minimum elong	3287 Apr 18 15:02	28° Y 59'55	2°39'20	evening set	3288 Mar 24 07:39	16° Ƴ 23'09	
min. Earth dist.	3287 Apr 21 21:51	26° Ƴ 15'54	0.58978 AU	inferior conj	3288 Mar 30 21:31	11° Y 24'53	3°21'51
morning rise	3287 Apr 25 21:22	23° Y '32'52		minimum elong	3288 Mar 30 23:50	11° Υ 19'15	3°21'32
desc. node	3287 Apr 28 22:11	22° Y 16'43		min. Earth dist.	3288 Apr 03 01:35	8° Y 21'48	0.61154 AU
direct	3287 May 02 02:30	21° Y 49'33		morning rise	3288 Apr 06 14:08	5° Ƴ 30'45	
morning max el	3287 May 16 11:46	29° Ƴ 35'34	27°11'14	direct	3288 Apr 13 08:28	3° Y 13′13	
	3287 May 16 21:38	0°8		desc. node	3288 Apr 14 19:13	3° Ƴ 19'11	
	3287 Jun 07 00:31	Π °0		morning max el	3288 Apr 27 13:54		27°47'11
morning set	3287 Jun 16 02:52	17° Ⅱ 44'23			3288 May 12 08:05	0°8	
asc. node	3287 Jun 18 10:16	22° Ⅱ 38'16			3288 May 29 05:35	0°II	
	3287 Jun 21 19:26	0ಂತಾ		morning set	3288 May 30 07:54	2° I 14'20	
	2207 1 22 04 40	30503146	0040124	asc. node	3288 Jun 04 07:19	12° Ⅱ 45'54	1 22222 411
superior conj	3287 Jun 23 04:48	3°503'46	0°48'24 0°48'02	max. Earth dist.	3288 Jun 05 07:55	14° Ⅱ 59'30	1.32233 AU
minimum elong max. Earth dist.	3287 Jun 23 02:53 3287 Jun 22 21:21	2° © 53'09 2° © 22'41	1.32080 AU	superior conj	3288 Jun 06 15:37	17° Ⅱ 52'44	0°24'20
evening rise	3287 Jun 30 01:06	17° 9 57'36	1.32000 AU	minimum elong	3288 Jun 06 14:31	17 II 32 44 17° II 46'44	0°24'16
evening rise	3287 Jul 05 23:57	0°Ω		minimum ciong	3288 Jun 12 04:47	17 Д 4044	0 24 10
desc. node	3287 Jul 25 21:29	0° Mp 22'42		evening rise	3288 Jun 13 12:11	2° © 48'05	
desc. node	3287 Jul 25 13:20	0° mp		evening rise	3288 Jun 28 03:22	0°Ω	
evening max el	3287 Jul 29 00:23	3° mp 35'25	26°17'49	evening max el	3288 Jul 09 17:14	14° Ω 35'04	24°59'03
retrograde	3287 Aug 11 23:48	10° mp 45'46	20 17 19	desc. node	3288 Jul 11 18:29	16° Ω 25'46	2.000
evening set	3287 Aug 18 12:37	9° m 00'33		retrograde	3288 Jul 23 16:24	21° Ω 39'39	
min. Earth dist.	3287 Aug 22 13:22	6° m/25'16	0.59361 AU	evening set	3288 Jul 29 01:56	20° Ω 33'11	
inferior conj	3287 Aug 25 20:19	3° m 54'03	-4°53'03	min. Earth dist.	3288 Aug 03 04:50	17° Ω 47'25	0.57372 AU
minimum elong	3287 Aug 26 00:16	3° Mp 46'27	4°52'35	inferior conj	3288 Aug 06 04:03	15° Ω 48'48	-5°06'11
	3287 Aug 31 20:28	30° R Ω		minimum elong	3288 Aug 06 03:24	15° Ω 49'53	5°06'10
morning rise	3287 Sep 02 14:05	29° Ω 22'11		morning rise	3288 Aug 14 07:23	11° Ω 38′56	
direct	3287 Sep 05 00:14	29° Ω 01'45		direct	3288 Aug 16 21:16	11° Ω 19'44	
	3287 Sep 08 23:32	0° m		morning max el	3288 Aug 25 21:11	15° Ω 33'07	19°09'58
morning max el	3287 Sep 12 19:58	2°M/48'22	18°23'02	asc. node	3288 Aug 31 06:32	22° Ω 01′09	
asc. node	3287 Sep 14 09:29	4° Mp 26′29			3288 Sep 05 04:28	0° т р	
morning set	3287 Sep 28 19:56	28° m 17'27		morning set	3288 Sep 11 19:00	12° m 35'34	
	3287 Sep 29 17:21	0∘ ⊽			2200 0 20 00 27	200 W 50110	101010
	2207.0 / 07.22.42	1.50 0 22102	1026126	superior conj	3288 Sep 20 00:37		1°40'07
superior conj	3287 Oct 07 22:42		1°26'26 1°26'06	minimum elong	3288 Sep 20 02:30	29° Mp 01′27 0° <u> </u>	1°40'01
minimum elong max. Earth dist.	3287 Oct 08 02:16 3287 Oct 15 10:53	15° ♀ 48'27 28° ♀ 54'12	1.40524 AU	max. Earth dist.	3288 Sep 20 14:38 3288 Sep 26 14:57	0 <u>₽</u> 11° ₽ 14'55	1.38452 AU
max. Earm dist.	3287 Oct 15 10:33 3287 Oct 16 02:14	28 = 34 12 0°M	1.40324 AU	evening rise	3288 Sep 30 10:08	11 = 14 33 17° £ 59'57	1.36432 AU
evening rise	3287 Oct 10 02:14 3287 Oct 19 22:41	6°M28'30		desc. node	3288 Oct 07 17:50	0°M15'00	
desc. node	3287 Oct 21 20:50	9°M37'29		dese. Hode	3288 Oct 07 14:07	0°M	
dese. node	3287 Nov 04 02:46	0° ⊼ 7			3288 Oct 28 11:00	0° ⊼ ¹	
evening max el	3287 Nov 23 11:24	24° √ 49'28	23°29'12	evening max el	3288 Nov 05 00:04	8° ≯ 29'23	24°47'36
C	3287 Nov 30 01:29	8°0		retrograde	3288 Nov 16 15:07	15° ∡ 15'13	
retrograde	3287 Dec 04 01:20	1° る 05'02		evening set	3288 Nov 22 05:11	12° ∡ ¹55′07	
-	3287 Dec 07 16:55	30°₽ ⋌ ¹		min. Earth dist.	3288 Nov 26 19:09	7° ∡ ¹43'53	0.67502 AU
evening set	3287 Dec 09 01:41	29° ₰ 00'27		asc. node	3288 Nov 27 05:44	7° ∡ ¹08'54	
asc. node	3287 Dec 11 08:42	26° х 40′01		inferior conj	3288 Nov 27 17:16	6° ∡ ³30'38	0°09'53
inferior conj	3287 Dec 14 11:16	22° ∡ ³36′03	1°02'40	minimum elong	3288 Nov 27 17:01	6° ∡ 31'27	0°09'47
minimum elong	3287 Dec 14 09:51	22° х 40′53	1°02'05	transit middle	3288 Nov 27 17:01	6° ∡ ³31′27	0°09'47
min. Earth dist.	3287 Dec 13 23:46	23° ҂ 15′25	0.67877 AU	transit begin	3288 Nov 27 14:49	6° ∡ ³38'45	
morning rise	3287 Dec 19 18:00	16° ₹ 29'10		transit end	3288 Nov 27 19:13	6° ∡ 124′10	
direct	3287 Dec 23 22:06	14° ₹ 51'50		morning rise	3288 Dec 03 04:58	0° ∡ ¹29'57	
morning max el	3288 Jan 01 08:12	19° ₹ 44'45	21°03'55	T' .	3288 Dec 04 00:09	30°RM	
1 1	3288 Jan 09 19:45	0°る		direct	3288 Dec 06 20:18	29°M13'43	
desc. node	3288 Jan 17 20:03	11° る 20'11			3288 Dec 09 20:02	0° ⊼	10052122
morning act	3288 Jan 30 04:16	0°≈ 2°0026'28		morning max el	3288 Dec 14 08:18	3° ≯ 29'13	19°53'23
morning set max. Earth dist.	3288 Jan 31 17:47 3288 Feb 08 13:27	2°≈26'28 14°≈56'36	1.42580 AU	desc. node	3289 Jan 02 15:56 3289 Jan 03 17:05	0°궁 1° 궁 35'35	
max. Darui dist.	5200 FCU UO 13.2/	1+ ∞3030	1.42300 AU	morning set	3289 Jan 03 17:03 3289 Jan 09 13:38	10° る 33'33	
superior conj	3288 Feb 15 16:39	26° ≈ 50'08	-2°06'44	max. Earth dist.	3289 Jan 20 23:36	10 33419 28° る 27'09	1.44120 AU
minimum elong	3288 Feb 15 16:45	26°≈50'37		ur. Durur dist.	3289 Jan 21 22:52	28 3 27 09 0° ≈	1.11120 AU
						- - ·	

superior conj	3289 Jan 26 01:30	6°≈37'12		n d r	3289 Dec 26 15:31	0°る	1 45005 411
minimum elong	3289 Jan 25 19:50	6°≈14'12	1°57'57	max. Earth dist.	3290 Jan 03 16:04	12° る 34'46	1.45025 AU
evening rise	3289 Feb 08 09:01	28°≈50'50			2200 I 05 11.26	150=205121	1920122
1-	3289 Feb 09 01:12	0° ₩ 22° ₩ 52'58		superior conj	3290 Jan 05 11:26 3290 Jan 05 02:18	15°₹25'31	
asc. node evening max el	3289 Feb 23 05:01 3289 Feb 26 12:56	26°\dagger 48'47	18°13'22	minimum elong	3290 Jan 03 02.18 3290 Jan 14 15:22	14°る49'32 0°≈	1 29 28
evening max ei	3289 Mar 03 08:07	20 π 4847 0° Υ	18 13 22	evening rise	3290 Jan 14 13:22 3290 Jan 20 13:38	0 ≈ 9°≈35'09	
retrograde	3289 Mar 04 23:20	0° Υ 14'04		evening rise	3290 Feb 02 06:37	0° ∺	
retrograde	3289 Mar 06 14:30	30°R) €		evening max el	3290 Feb 10 00:43	10°) 14'14	18°37'47
evening set	3289 Mar 07 21:13	29° H 29'46		asc. node	3290 Feb 10 02:02	10°) 17'37	10 37 17
inferior conj	3289 Mar 13 23:22	24°)(11'48	3°38'11	retrograde	3290 Feb 16 15:12	13° ¥ 53'33	
minimum elong	3289 Mar 13 23:51	24°) 10'29	3°38'10	evening set	3290 Feb 19 19:01	12°) 57'09	
min. Earth dist.	3289 Mar 16 14:03	21°) €21'08	0.63210 AU	inferior conj	3290 Feb 25 12:56	7° ∺ 20'59	3°35'33
morning rise	3289 Mar 20 01:27	18°) €06'56		minimum elong	3290 Feb 25 11:52	7°) €24'12	
direct	3289 Mar 26 23:26	15° ∺ 25'39		min. Earth dist.	3290 Feb 27 11:57	4° ℋ 59'40	0.64952 AU
desc. node	3289 Apr 01 16:15	16° ¥ 59'13		morning rise	3290 Mar 03 04:14	1° ₩ 10'31	
morning max el	3289 Apr 09 20:56	23°) €23'04	27°45'38	-	3290 Mar 04 17:26	30°R ≈	
	3289 Apr 15 18:37	$0^{\circ}\mathbf{\Upsilon}$		direct	3290 Mar 09 21:35	28° ≈ 19'41	
	3289 May 05 14:43	$0^{\circ}B$			3290 Mar 15 14:11	0°)	
morning set	3289 May 14 06:36	16° 8 22'14		desc. node	3290 Mar 19 13:17	2°) 44'23	
max. Earth dist.	3289 May 19 13:21	27° 8 17'11	1.32811 AU	morning max el	3290 Mar 23 06:34	6° ₩ 08'54	27°09'42
	3289 May 20 19:53	$\Pi^{\circ}0$			3290 Apr 10 13:23	0 ° $\mathbf{\Upsilon}$	
				morning set	3290 Apr 27 20:08	29° Y 59'29	
superior conj	3289 May 21 23:38	2° Ⅱ 29'07			3290 Apr 27 20:15	0° 8	
minimum elong	3289 May 21 23:44	2° Ⅱ 29'41	0°02'03	max. Earth dist.	3290 May 02 10:02	9° 8 06'08	1.33836 AU
behind sun begin	3289 May 21 18:30	2° Ⅱ 01′28					
behind sun end	3289 May 22 04:59	2° Ⅱ 57'55		superior conj	3290 May 06 02:53	16° 8 46'51	
asc. node	3289 May 22 04:21	2° Ⅱ 54'32		minimum elong	3290 May 06 04:27	16° 8 55'04	0°29'59
evening rise	3289 May 29 00:01	17° II 37'02		asc. node	3290 May 09 01:21	22° 8 59'55	
	3289 Jun 04 02:43	0°95	2202410		3290 May 12 08:29	0°II	
evening max el	3289 Jun 21 06:35	25°904'58	23°24'19	evening rise	3290 May 13 10:47	2° Ⅱ 18'24	
daga mada	3289 Jun 27 19:24 3289 Jun 28 15:29	0° Ω 0° Ω 24'57		avanina may al	3290 May 29 02:36 3290 Jun 02 23:42	0°© 5°©35'52	21940/12
desc. node retrograde	3289 Jul	1°Ω52'09		evening max el retrograde	3290 Jun 15 12:36	3 \$33 32 11°\$47'01	21 49 13
evening set	3289 Jul 04 20.14 3289 Jul 08 17:52	1° Ω 18'51		desc. node	3290 Jun 15 12:30	11 \$34701 11°\$47'01	
evening set	3289 Jul 12 04:34	30°R≌		evening set	3290 Jun 18 03:27	11°931'37	
min. Earth dist.	3289 Jul 15 16:26		0.55792 AU	min. Earth dist.	3290 Jun 27 03:19	7° 9 41'30	0.54944 AU
inferior conj	3289 Jul 17 15:44	26°957'34		inferior conj	3290 Jun 27 12:30	7° © 28'40	
minimum elong	3289 Jul 17 09:22	27° © 07'01		minimum elong	3290 Jun 27 04:20	7° 5 40'04	
morning rise	3289 Jul 26 03:19	23°903'27		morning rise	3290 Jul 06 06:35	3°936'02	
direct	3289 Jul 28 23:18	22°5643'48		direct	3290 Jul 09 11:17	3°513'35	
morning max el	3289 Aug 08 11:21	27°536'09	20°18'32	morning max el	3290 Jul 21 13:52	8°954'18	21°46'41
	3289 Aug 10 19:19	$0^{\circ}\Omega$		asc. node	3290 Aug 05 00:37	29° 5 21'03	
asc. node	3289 Aug 18 03:34	10° £ 23′05			3290 Aug 05 09:00	$0^{\circ}\Omega$	
morning set	3289 Aug 27 00:20	27° Ω 11'55		morning set	3290 Aug 11 09:38	12° Ω 00′02	
	3289 Aug 28 09:09	0° m					
				superior conj	3290 Aug 18 15:40	27° Ω 17'04	
superior conj	3289 Sep 03 15:34	12° m 51'09	1°44'48	minimum elong	3290 Aug 18 14:30	27° Ω 11'01	1°41'59
minimum elong	3289 Sep 03 15:45	12° m 52'05	1°44'47		3290 Aug 19 22:56	0°Щ	
max. Earth dist.	3289 Sep 08 21:12	23° mp 11'00	1.36485 AU	max. Earth dist.	3290 Aug 22 10:29	5° ™ 05'21	1.34807 AU
evening rise	3289 Sep 12 18:59	0° £ 31'02		evening rise	3290 Aug 26 20:51	13° m 50'30	
	3289 Sep 12 12:13	0° ⊽			3290 Sep 04 19:21	0° ⊽	
desc. node	3289 Sep 24 14:51	20° £ 40'34		desc. node	3290 Sep 11 11:51	10° £ 48'13	
avanie 1	3289 Sep 30 18:02	0°M	25057120	avani 1	3290 Sep 25 14:27	0°M	26051115
evening max el	3289 Oct 18 12:25	22°M11'21	25°57′28	evening max el	3290 Oct 01 00:54	5°M48'19	26°51'15
retrograde	3289 Oct 30 23:59	29°M17'00		retrograde	3290 Oct 14 03:30	13°M.04'03	
evening set min. Earth dist.	3289 Nov 06 04:04 3289 Nov 10 10:40	26°M43'46 22°M07'55	0.66786 AU	evening set min. Earth dist.	3290 Oct 20 20:15 3290 Oct 24 19:57	10°M22'44	0.65718 AU
inferior conj	3289 Nov 10 10:40 3289 Nov 11 19:51	20°M23'56		inferior conj	3290 Oct 24 19:37 3290 Oct 26 17:00	4°M12'05	
minimum elong	3289 Nov 11 19.31 3289 Nov 11 21:06	20°M20'01	0°46'34	minimum elong	3290 Oct 26 17:56	4°ML03'31	
asc. node	3289 Nov 14 02:46	17°ML38'21	0 TU JH	mminum ciong	3290 Oct 26 19.36 3290 Oct 30 17:15	4 11603 31 30°R ≏	1 73 30
morning rise	3289 Nov 17 14:30	14°MJ32'08		asc. node	3290 Oct 30 17:13 3290 Oct 31 23:49	29° £ 02'19	
direct	3289 Nov 17 14:50 3289 Nov 20 18:58	13°M33'54		morning rise	3290 Nov 01 20:22	29° ⊆ 0219 28° ⊆ 32'13	
morning max el	3289 Nov 27 15:57	17°ML22'52	18°57'44	direct	3290 Nov 04 16:06	27° ≏ 48'21	
	3289 Dec 07 07:32	0° ∡ ¹	/		3290 Nov 09 17:41	0°M	
morning set	3289 Dec 19 21:22	19° ∡ ¹25'38		morning max el	3290 Nov 11 05:14	1°ML21'11	18°18'18
desc. node	3289 Dec 21 14:08	22° ∡ 105′05		morning set	3290 Nov 30 08:51	29°M42'10	
				-			

desc. node	3290 Nov 30 13:15 3290 Dec 08 11:10	0° ҂ ¹ 12° ҂ ³44'10		superior conj minimum elong behind sun begin	3291 Nov 25 04:53 3291 Nov 25 05:00 3291 Nov 24 18:49	3° ₹ 16'06 3° ₹ 16'31 2° ₹ 35'21	0°00'57 0°00'56
superior conj	3290 Dec 15 13:29	23° ∡ 58'42	-0°46'57	behind sun end	3291 Nov 25 15:10	3° ∡ 757'36	
minimum elong	3290 Dec 15 07:32	23° ∡ ³35′17	0°46'10	desc. node	3291 Nov 25 08:12	3° ₹ 29'31	
max. Earth dist.	3290 Dec 17 11:24	26° ₹ 59'11	1.45200 AU	max. Earth dist.	3291 Nov 30 06:07	11° ₹ 21'12	1.44635 AU
	3290 Dec 19 09:30	0° ろ		evening rise	3291 Dec 11 08:10	28° ∡ 38'40	
evening rise	3290 Dec 31 19:19	19° る 25'01			3291 Dec 12 05:20	0° る	
	3291 Jan 07 13:45 3291 Jan 11 23:33	0° ≈ 6° ≈ 49'12	-0.8m		3292 Jan 01 12:42 3292 Jan 07 12:53	0° ≈ 7° ≈ 14'34	20017110
greatest brilliancy evening max el	3291 Jan 24 09:12	0 ≈49 12 23°≈43'20	-0.8III 19°19'24	evening max el asc. node	3292 Jan 07 12.33 3292 Jan 14 20:08	/ ≈14 34 11°≈49'49	20 10 19
asc. node	3291 Jan 27 23:05	26°≈41'16	17 1724	retrograde	3292 Jan 15 09:36	11°≈51'33	
retrograde	3291 Jan 31 11:33	27° ≈ 47'23		evening set	3292 Jan 19 04:33	10° ≈ 28'10	
evening set	3291 Feb 03 22:11	26° ≈ 38′02		inferior conj	3292 Jan 24 14:05	4° ≈ 22'44	2°50'58
inferior conj	3291 Feb 09 10:45	20° ≈ 45′50	3°18'44	minimum elong	3292 Jan 24 11:34	4° ≈ 31'13	2°50'20
minimum elong	3291 Feb 09 08:41	20° ≈ 52'31	3°18'23	min. Earth dist.	3292 Jan 25 08:16	3° ≈ 21′08	0.67240 AU
min. Earth dist.	3291 Feb 10 18:38	19° ≈ 02'50	0.66300 AU		3292 Jan 27 23:30	30°Rる	
morning rise	3291 Feb 14 18:56	14° ≈ 32'42		morning rise	3292 Jan 29 18:24	28° る 08'58	
direct	3291 Feb 21 02:02	11°≈45'31	26006122	direct	3292 Feb 04 12:06	25° る 35'29	
morning max el	3291 Mar 05 16:19	19°≈14'14	26°06'23		3292 Feb 13 09:44	0°≈ 2°≈29'13	24°45'10
desc. node	3291 Mar 06 10:20 3291 Mar 14 20:10	20°≈00'27 0°) €		morning max el desc. node	3292 Feb 16 01:03 3292 Feb 21 07:25	2°≈29°13 8°≈21'53	24*45*10
	3291 Mai 14 20:10 3291 Apr 03 14:52	0° Υ		desc. node	3292 Nev 21 07.23 3292 Mar 07 23:23	0° ∺	
morning set	3291 Apr 10 20:34	12°Υ53'45		morning set	3292 Mar 23 02:45	24°) 51'03	
max. Earth dist.	3291 Apr 14 19:18	20°Υ23'25	1.35315 AU		3292 Mar 25 23:38	0° Υ	
	•			max. Earth dist.	3292 Mar 26 18:04	1° Y ′24'09	1.37208 AU
superior conj	3291 Apr 19 22:51	0° ප 37'39	-0°59'00				
minimum elong	3291 Apr 20 01:57	0° 8 53'23	0°58'26	superior conj	3292 Apr 02 08:30	13° Y 53'51	
	3291 Apr 19 15:26	9° 8		minimum elong	3292 Apr 02 12:47	14° Ƴ 14'48	1°25'36
asc. node	3291 Apr 25 22:23	12° 8 57'35			3292 Apr 10 10:43	0°8	
evening rise	3291 Apr 27 18:24	16° 8 44'38		evening rise	3292 Apr 10 20:34	0° 8 49'12	
avanina may al	3291 May 04 12:38	0°Ⅲ 16°Ⅲ35'24	20026110	asc. node	3292 Apr 11 19:26	2° 8 43'05	10021120
evening max el retrograde	3291 May 16 03:01 3291 May 27 01:54	16° Д 35°24 21° Д 55'43	20°26'18	evening max el	3292 Apr 27 18:30 3292 Apr 29 18:31	28° ႘ 15'45 0° Ⅱ	19°21'39
evening set	3291 May 29 02:20	21° II 45'35		retrograde	3292 May 07 00:16	0 H 2°∏44'49	
desc. node	3291 Jun 02 09:32	20° I I24'08		evening set	3292 May 07 00:10 3292 May 09 00:48	2°П32'52	
inferior conj	3291 Jun 07 06:45	17° Ⅱ 47'36	-1°26'11	Ü	3292 May 15 01:11	30° ₹ 8	
minimum elong	3291 Jun 07 02:41	17° Ⅱ 53'31	1°24'41	inferior conj	3292 May 17 12:47	28° 8 25'30	0°30'18
min. Earth dist.	3291 Jun 08 15:36	16° Ⅱ 59'50	0.55025 AU	minimum elong	3292 May 17 14:03	28° 8 23'25	0°29'51
morning rise	3291 Jun 16 02:01	13° Ⅱ 35'56		desc. node	3292 May 19 06:34	27° 8 16'46	
direct	3291 Jun 19 21:22	13° Ⅱ 04'41		min. Earth dist.	3292 May 20 06:14	26° 8 38'37	0.56044 AU
morning max el	3291 Jul 03 07:31	19° Ⅱ 35'27	23°27'36	morning rise	3292 May 26 00:20	23° 8 40'26	
aca mada	3291 Jul 12 00:33 3291 Jul 22 21:41	0°ତ 18° ତ 45'44		direct	3292 May 30 18:09	22° ႘ 49'02 0° Ⅱ	
asc. node morning set	3291 Jul 26 21:00	26°954'06		morning max el	3292 Jun 13 21:37 3292 Jun 13 21:41	0° П 00'10	25°08'46
morning set	3291 Jul 28 08:02	0°Ω		morning max cr	3292 Jul 04 12:35	0.22 0.10010	23 00 40
	3231 0 00.02	000		asc. node	3292 Jul 08 18:43	8° © 29'39	
superior conj	3291 Aug 02 21:50	12° Ω 00'48	1°33'08	morning set	3292 Jul 10 08:44	11° 5 48'40	
minimum elong	3291 Aug 02 19:50	11° Q 50'00	1°32'57				
max. Earth dist.	3291 Aug 05 08:39	17° Ω 14'33	1.33514 AU	superior conj	3292 Jul 17 07:42	26° © 54'18	1°19'06
evening rise	3291 Aug 10 11:26	27° Ω 46'43		minimum elong	3292 Jul 17 05:21	26° © 41'25	1°18'47
	3291 Aug 11 14:20	0° т р		max. Earth dist.	3292 Jul 18 14:34		1.32637 AU
desc. node	3291 Aug 29 08:52	0° ჲ 30'06			3292 Jul 18 17:45	0°N	
avanina may al	3291 Aug 29 00:42	0° 亞 19° 亞 10'03	27°21'50	evening rise	3292 Jul 24 11:08	12° Ω 09'10 0° m	
evening max el retrograde	3291 Sep 13 12:43 3291 Sep 27 01:20	26° £ 28'23	27 21 30	desc. node	3292 Aug 02 18:39 3292 Aug 15 05:53	اران 0 19° 10 ⁄35'00	
evening set	3291 Oct 04 03:12	20° ⊆ 2623		desc. node	3292 Aug 23 20:14	0° ⊽	
min. Earth dist.	3291 Oct 07 20:54	20° £ 22'30	0.64291 AU	evening max el	3292 Aug 25 21:59	2° ≏ 03'42	27°23'01
inferior conj	3291 Oct 10 06:22	17° £ 50'13		retrograde	3292 Sep 08 16:45	9° £ 19'40	
minimum elong	3291 Oct 10 10:57	17° ≏ 38'04	2°45'24	evening set	3292 Sep 15 21:25	6° ჲ 50'26	
morning rise	3291 Oct 16 19:52	12° ≏ 25'24		min. Earth dist.	3292 Sep 19 11:54	3° ჲ 54'42	0.62542 AU
asc. node	3291 Oct 18 20:53	11° ≏ 53'30		inferior conj	3292 Sep 22 09:03	1° ≙ 10'54	
direct	3291 Oct 19 09:14	11° ≏ 52'08		minimum elong	3292 Sep 22 14:42	0° ≏ 57'28	3°42'44
morning max el	3291 Oct 25 21:29		17°55'53		3292 Sep 23 15:20	30°RM)	
morning set	3291 Nov 05 07:04	0°M 11° m 22'10		morning rise	3292 Sep 29 09:33	26° Mp 04'14	
morning set	3291 Nov 12 00:44 3291 Nov 23 04:35	11°M22'10 0°⊀		direct asc. node	3292 Oct 01 19:17 3292 Oct 04 17:57	25° m 38'07 26° m 18'23	
	3471 HUV 23 U4.33	υ λ		asc. Houc	3272 OCL UT 17.37	20 III 1023	

morning max el	3292 Oct 08 13:35	29° m 05'26	17°51'14	morning set	3293 Oct 07 21:44	7° ≙ 37'10	
	3292 Oct 09 10:35	0∘ ⊽					
morning set	3292 Oct 24 15:04	24° Ω 06'17		superior conj	3293 Oct 17 16:30		1°13'47
	3292 Oct 27 22:37	0°M₊		minimum elong	3293 Oct 17 20:41	25° ≏ 55'06	1°13'19
					3293 Oct 20 04:09	0°M	
superior conj	3292 Nov 04 21:39	13°M48'10		max. Earth dist.	3293 Oct 25 07:50	8°M49'50	1.41680 AU
minimum elong	3292 Nov 05 01:24	14°M04'00	0°42'18	desc. node	3293 Oct 29 02:14	15°M03'18	
desc. node	3292 Nov 11 05:13	24°M16'54		evening rise	3293 Oct 30 17:37	17° M 42'37	
max. Earth dist.	3292 Nov 11 21:20	25°M22'17	1.43410 AU		3293 Nov 07 14:16	0° √	
	3292 Nov 14 18:28	0° ∡ ¹			3293 Nov 29 05:16	0°る	
evening rise	3292 Nov 19 18:13	7° ∡ 751'04		evening max el	3293 Dec 03 04:14	4° る 21'17	22°43'09
	3292 Dec 04 11:58	8°0		retrograde	3293 Dec 13 02:34	10°る15'02	
evening max el	3292 Dec 20 11:04	20° る 46'53	21°25'41	evening set	3293 Dec 17 19:29	8° පි 20'01	
retrograde	3292 Dec 29 07:11	26° පි 01'51		asc. node	3293 Dec 18 14:14	7° る 38'04	
asc. node	3292 Dec 31 17:11	25° る 29'53		inferior conj	3293 Dec 23 04:15	1° る 57'55	1°30'40
evening set	3293 Jan 02 12:11	24° පි 23'10		minimum elong	3293 Dec 23 02:21	2° る 04'31	1°29'56
inferior conj	3293 Jan 07 20:34	18° る 07'38	2°14'27	min. Earth dist.	3293 Dec 22 22:59	2°る16'10	0.67951 AU
minimum elong	3293 Jan 07 18:08	18° ප 16'04	2°13'38		3293 Dec 24 14:48	30°₽ ⋌ ¹	
min. Earth dist.	3293 Jan 08 02:31	17° る 47'02	0.67782 AU	morning rise	3293 Dec 28 09:06	25° х 48'32	
morning rise	3293 Jan 12 23:53	11° る 55'09		direct	3294 Jan 01 21:22	23° х 57'57	
direct	3293 Jan 18 02:53	9° る 41'43		morning max el	3294 Jan 10 22:34	29° √ 15'57	21°49'54
morning max el	3293 Jan 28 09:57	15° る 48'56	23°16'33	, and the second	3294 Jan 11 15:44	0°₹	
desc. node	3293 Feb 07 04:28	27° る 29'37		desc. node	3294 Jan 25 01:29	17° る 10'28	
	3293 Feb 09 01:05	0°≈			3294 Feb 02 18:57	0° ≈	
	3293 Feb 28 23:34	0°) €		morning set	3294 Feb 12 09:22	14° ≈ 55'48	
morning set	3293 Mar 04 08:32	5°) 35′03		max. Earth dist.	3294 Feb 18 11:33		1.41486 AU
max. Earth dist.	3293 Mar 04 00:32 3293 Mar 08 12:42	12°) (42'55	1.39355 AU	max. Earth dist.	3294 Feb 21 12:42	0°) €	1.41400710
max. Latin dist.	3273 Wai 00 12.42	12 /(4233	1.57555 AC		3274100 21 12.42	υ / (
superior conj	3293 Mar 16 03:52	26°) 25'48	-1°49'10	superior conj	3294 Feb 26 04:03	8°) (01'15	-2°03'55
minimum elong	3293 Mar 16 08:20	26°) (46'31		minimum elong	3294 Feb 26 06:35	8°) 12'23	
minimum ciong	3293 Mar 18 01:45	20 γ (4031	1 40 40	evening rise	3294 Mar 08 20:32	27°) (23'11	2 03 30
evening rise	3293 Mar 25 14:27	14° Υ 24'57		evening rise	3294 Mar 10 06:32	0° Υ	
asc. node	3293 Mar 29 16:28	22° Υ 11'36		asc. node	3294 Mar 16 13:30	11° Υ 16'39	
asc. node		0° 8			3294 Mar 16 13:30 3294 Mar 25 04:38	23° Y 22'10	18°12'29
avanina may al	3293 Apr 03 01:32	10° 8 34'26	18°37'04	evening max el		26° Υ 51'12	18 12 29
evening max el	3293 Apr 10 20:10	10 8 34 26	18 3/04	retrograde	3294 Apr 01 02:58	26°Y23'54	
retrograde	3293 Apr 18 16:17 3293 Apr 20 22:49	14° 8 06'48		evening set	3294 Apr 03 15:55	20° 123.34 21° 123.34 123.34	2901126
evening set			2002117	inferior conj	3294 Apr 10 14:14	21° Y 37° 12 21° Y 29° 55	
inferior conj	3293 Apr 28 14:57	9° 8 41'07	2°02'16	minimum elong	3294 Apr 10 17:28		3°00'47
minimum elong	3293 Apr 28 18:39	9° 8 34'01	2°01'10	min. Earth dist.	3294 Apr 13 23:10	18° Ƴ 37'44	0.59904 AU
min. Earth dist.	3293 May 02 00:04	_	0.57785 AU	morning rise	3294 Apr 17 16:40	15°Υ53'16	
morning rise	3293 May 06 11:18	4° 8 22'30		desc. node	3294 Apr 23 00:39	13° Y 58'33	
desc. node	3293 May 06 03:36	4° 8 31'49		direct	3294 Apr 24 04:41	13° Y 54'46	25021110
direct	3293 May 12 05:13	2° 8 59'36	2.602.412.2	morning max el	3294 May 08 12:30	21° Y 45'11	2/°31′10
morning max el	3293 May 26 14:07	10° 8 35'58	26°34'32		3294 May 15 17:40	8°0	
	3293 Jun 10 12:03	0°II			3294 Jun 03 11:08	0°Ⅱ	
morning set	3293 Jun 24 19:17	26° Ⅲ 38'33		morning set	3294 Jun 09 02:51	11° Ⅱ 17'09	
asc. node	3293 Jun 25 15:45	28° Ⅱ 26'53		asc. node	3294 Jun 12 12:46	18° Ⅲ 31'40	
	3293 Jun 26 09:11	0		max. Earth dist.	3294 Jun 15 13:13	25° Ⅱ 06'44	1.32097 AU
	2202 1 1 01 10 10	110651100	1000144		2204 1 16 06 52	260T 42156	0020120
superior conj	3293 Jul 01 19:19	11°951'02	1°00'44	superior conj	3294 Jun 16 06:53	26° Ⅱ 43'56	0°38'39
minimum elong	3293 Jul 01 17:07	11°938'50	1°00'20	minimum elong	3294 Jun 16 05:15	26° Ⅱ 34'59	0°38'18
max. Earth dist.	3293 Jul 02 01:20	12°524'09	1.32168 AU		3294 Jun 17 18:29	0°95	
evening rise	3293 Jul 08 17:05	26°548'56		evening rise	3294 Jun 23 02:51	11° © 37'10	
	3293 Jul 10 05:52	$0^{\circ}\Omega$			3294 Jul 02 11:06	$0^{\circ}\Omega$	
	3293 Jul 27 07:00	0°Щ		desc. node	3294 Jul 19 23:54	24° Ω 45'47	
desc. node	3293 Aug 02 02:53	7° m 47'41		evening max el	3294 Jul 20 23:08	25° Ω 42'42	25°47'13
evening max el	3293 Aug 08 02:13	14° m 17'35	26°51'06		3294 Jul 26 07:55	0° т р	
retrograde	3293 Aug 22 00:27	21° m 29'17		retrograde	3294 Aug 03 22:41	2° m 50'23	
evening set	3293 Aug 28 22:32	19° ™ 24'58		evening set	3294 Aug 10 01:40	1°m/21'29	
min. Earth dist.	3293 Sep 01 16:21	16° m 46'49			3294 Aug 12 13:12	30°R Ω	
inferior conj	3293 Sep 04 21:43	14° m 06'01		min. Earth dist.	3294 Aug 14 11:20		0.58493 AU
minimum elong	3293 Sep 05 02:59	13° m 55'01	4°31'48	inferior conj	3294 Aug 17 16:44	26° Ω 24'40	
morning rise	3293 Sep 12 09:20	9° ™ 20′30		minimum elong	3294 Aug 17 19:04	26° Ω 20'27	5°02'34
direct	3293 Sep 14 18:30	8° m 58'35		morning rise	3294 Aug 25 14:42	22° Ω 02'17	
asc. node	3293 Sep 21 14:59	12° m 08'40		direct	3294 Aug 28 02:20	21° Ω 42'24	
morning max el	3293 Sep 22 02:24	12°M 35'30	18°05'33	morning max el	3294 Sep 05 08:40	25° Ω 38'43	18°40'22
	3293 Oct 03 18:49	0。 ಹ		asc. node	3294 Sep 08 12:01	29° Ω 08'59	

1985 1985	•	•		Č	. ,,		, 1	•
Part		3294 Sep 09 03:39	O° Mb		morning max el	3295 Aug 19 05:23	8°Ω06'01	19°36'40
September 1948 19	morning set	1			•	•		
Septication of 1948		-						
superior only minimum only max Farth 43. 2949 Sep 30 (81) 872 Min Sep 31 (82) 47373 (82) superior conty 3295 Sep 13 (183) 22 (19073) 1°470 Min					morning set	-	-	
minimationing 294 Sey 30 1133 484 Toll 98 1393 at 1830 septiments. 293 Sey 1 1 1639 at 22 fly073 at 1830 or 00 221 Will 17 1520 at 28 septiments. 222 Sey 1 17 1839 or 00 222 Fly071 at 1830 or 00 222 Sey 1 17 1839 or 00 070 Septiments. 223 Sey 1 17 1839 or 00 070 Septiments. 324 Act 1 1 152 at 18 Septiments. 48 Septiments. 223 Sey 1 1839 or 00 070 Septiments. 324 Act 1 1 152 at 18 Septiments. 324 Septiments. 32	superior coni	3294 Sep 30 08:39	8° £ 27'30	1°33'27	. 8	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
max. End disk 294 Oct 1 17:25 294 Sey 1 17 20 20 20 20 20 20 20 2		-			superior coni	3295 Sep 13 16:39	22° m 05'33	1°43'07
Second 1904 1912 1912 1914	_	-					-•	
1941 1978	evening rise	3294 Oct 11 15:22	28° £ 35'41		Č	-	•	
Seek note 3294 No. 91 of 220 72.92 72.	· ·	3294 Oct 12 11:26	0°M.		max. Earth dist.	-	3° ≏ 42'44	1.37583 AU
1948 3294 Nov 10,200 0°A 1978 249005 3295 Cot 0 20,014 20 20 20 20 20 20 20 2	desc. node	3294 Oct 15 23:14	5°M45'06		evening rise	-	10° Ω 32'51	
congolaged servings and 3940 be 00 510 223-878-878 are enode (a) 3940 be 00 51125 1878-8198 are enode (a) 3940 be 00 51125 1878-8198 are enode (a) 3950 be 00 604 1878-827 1878-8198 are enode (a) 3950 be 00 604 1878-827 1878-8198 are enode (a) 3950 be 00 602 1878-827 1878-8198 are enode (a) 3950 be 00 602 1878-827 1878-8198 are enode (a) 3950 be 01 0627 1878-8198 are enode (a) 3950 be 01 0627 1878-8198 are enode (a) 3950 be 01 0627 1878-8198 are enode (a) 3950 be 01 0628 1878-8198 are enode (a) 3950 be 01 0628 1878-8198 are enode (a) 3950 be 01 0629 1878-8198 are enode (a) 3950 be 01 0639 1878-81			0° ∡ ¹		desc. node	3295 Oct 02 20:14	26° ₽ 17'53	
Section Sect	evening max el	3294 Nov 15 17:55	17° ∡ ¹59'01	24°03'05		3295 Oct 05 04:31	0°M	
machine 394 be 0 f 11-15 1818-78192 returning 294 be 0 f 10-25 1512 1512-78197 04051 returning 294 be 0 f 10-25 1512-78495 040728 returning 295 be 0 f 10-25 06738 067238 AU returning 295 be 0 f 10-25 0757-78497 returning 295 be 0 f 10-25 0757-89497 returning 295 be 0 f 10-25 0757-89497 returning 295 be 0 f 10-25 0758-8949 returning 295 be 0 f 10-25 0758-9949 returning 295 be 0 f 10-25 0759-9949 returning 295 be 0 f 1	retrograde	3294 Nov 26 18:38	24° ∡ ¹27'55			3295 Oct 27 14:52	0° ∡ ¹	
inferior conj 339 be 0 f 11-22 15½-8137 0'4051 evening set 329 Ne 10 G.281 6°-2085 10 0'28 Ne min Earth dist 3295 be 0 f 10-25 15½-8515 0'4028 min Earth dist 3295 Ne 2 1 11-46 30°R.M. 30°R.M. min. Earth dist 3294 Dec 16 19:30 16½-8551 0.67766 AU min Earth dist 3295 Ne 2 1 11-46 30°R.M. 0°R.M. 0°R.M. <t< td=""><td>evening set</td><td>3294 Dec 02 00:51</td><td>22°⋌16'24</td><td></td><td>evening max el</td><td>3295 Oct 29 06:04</td><td>1°∡³39'25</td><td>25°18'47</td></t<>	evening set	3294 Dec 02 00:51	22° ⋌ 16'24		evening max el	3295 Oct 29 06:04	1° ∡ ³39'25	25°18'47
minimar long 3.94 Dec 07 10.25 15°-87*451 04'02'8 min. Earth dist. 3.294 Dec 06 19.20 16'-82'851 0.6728 AU min. Earth dist. 3.294 Dec 16 18.31 97-87*472 minimar dong 3.295 Nov 21 11.642 30°-811. 30°-81	asc. node	3294 Dec 05 11:15	18° ∡ ³31'52		retrograde	3295 Nov 10 06:27	8° ∡ ³35′27	
nin Earth dist 3294 Dec 06 19:20 16°8'4551 0.67766 AU sinferior conj 3295 Nov 21 11:608 29°RL4750 0°1333 direct 3294 Dec 16 18:31 82°J1917 minimum clong 3295 Nov 21 16:20 29°RL4740 0°1333 3295 Lan O 200 11 22:30 7°51519 transit middle 3295 Nov 21 16:20 29°RL4740 0°1243 desc. node 3295 Jan D 18:21 7°51519 transit begin 3295 Nov 21 16:20 29°RL3740 1°1240 max. Earth dist. 3295 Jan 2 18:14 0°2 38°8757 1.43306 AU direct 3295 Nov 21 16:20 29°RL3740 superior conj 3295 Feb 0° 10:48 18°8-2972 2°0524 greatest brilliancy 3295 Dec 10 20:10 0°2*RL4740 19°2*TL4750 superior conj 3295 Feb 10 20:40 18°8-2974 2°0524 greatest brilliancy 3295 Dec 10 20:10 0°2*RL4750 0°2*RL	inferior conj	3294 Dec 07 11:22	15° ∡ 751'37	0°40'51	evening set	3295 Nov 16 02:38	6° ₰ 08'59	
morning max 3294 Dec 12 19.59 97,84720 morning max 3294 Nov 21 6202 2978,4494 071343 morning max 3294 Dec 24 18.14 127,84729 2073216 transit middle 3295 Nov 21 6202 2978,4494 071343 morning max 3295 Nov 21 6202 2978,4494 071343 morning max 3295 Nov 21 6202 2978,4992 07216 transit middle 3295 Nov 21 6202 07214 40 071343 40	minimum elong	3294 Dec 07 10:25	15° ∡ 754'51	0°40'28	min. Earth dist.	3295 Nov 20 13:17	1° ∡ 12'53	0.67238 AU
direct 3294 Dec 16 18/31 8°-2*1917 minimum elong 3295 Nov 21 16/29 29°-ML440 0°1343 noming maxel 3294 Dec 24 18/14 12°-8'-8'197 trainst imddle 3295 Nov 21 16/29 29°-ML490 0°1343 desc. node 3295 Jan 1 22/30 7°-8'1519 mark transit middle 3295 Nov 21 16/28 29°-ML490 1°14 max Earth dist 3295 Jan 2 18/14 0°28 morning etc 3295 Nov 21 16/28 29°-ML490 1°14 max Earth dist 3295 Jan 2 18/14 0°28 morning etc 3295 Nov 21 16/29 22°-ML492 1°14 max Earth dist 3295 Feb 10 18/14 0°28 1°28 1°28 1°27 1°27 2°15 2°17	min. Earth dist.	3294 Dec 06 19:20	16° ∡ ¹45'51	0.67766 AU		3295 Nov 21 11:46	30°RM₊	
Manufang max et 329 Jan 07 0006 075 075 215 1 masit middle 329 S Nov 2 1 15:09 297L4470 071343 071341 0713433 071343 071343 071343 071343 071343 071343 0713	morning rise	3294 Dec 12 19:59	9° ∡ 747′20		inferior conj	3295 Nov 21 16:08	29°M45'49	-0°13'53
March 1908	direct	3294 Dec 16 18:31	8° √ 19'17		minimum elong	3295 Nov 21 16:29	29°M44'40	0°13'43
General Comminity 1	morning max el	3294 Dec 24 18:14	12° ∡ 54′29	20°32'16	transit middle	3295 Nov 21 16:29	29°M44'40	0°13'43
maning set 3295 Jan 2 2 10.25 23°513′59 3295 Jan 2 6 18:14 79°82′51 1.43306 AU morning rise 3295 Nov 30 16:59 22°18.43′61 19°2751 1.43306 AU morning maxel 3295 Nov 30 16:59 22°18.43′61 19°2751 3295 Nov 30 16:59 3295 Nov 30 16:59 22°18.43′61 19°2751 3295 Nov 30 16:59 3295 Nov 30 16:59 32°18 Nov 30 16:59 3295 Nov		3295 Jan 07 00:06	ರ°0		transit begin	3295 Nov 21 15:00	29°M49'29	
max. Farth dist. 3295 Jan 3 I 8:05 0°≈ moming rise 3295 Nov 27 06:36 23°RL48*9 max. Farth dist. 3295 Jan 3 I 8:05 7°×5757 I 43306 AU direct 3295 Nov 30 16:59 22°RL4572 superior conj 3295 Feb 70 04:02 18°×52702 2°0524 3295 Doe 10 20:10 20°R minimum clong 3295 Feb 13 22:49 0°H 2°0522 greatest brilliancy 3295 Doe 21 02:10 27°×370° -0m evening rise 3295 Feb 13 22:49 0°H 2°9522 greatest brilliancy 3295 Doe 21 02:21 1°83206 1°83206 1°8026 1°83206 1°8026 1°8036 1°8078 3295 Doe 31 08:32 0°E 1°83206 1°8036 1°80731 1°8036 1°80731 1°8036 1°80731 1°80731 1°8041 1°44588 AU 1°8326 Jan 18 02:04 2°754728 1°48811 1°44588 AU 1°4458 AU 1°4458 AU 2°754728 1°44811 1°4458 AU 1°4458 AU 2°754728 1°44811 1°4458 AU 1°4458 AU 2°754728 1°44811 1°4450729 1°44508 2°754728 1°	desc. node	3295 Jan 11 22:30	7° る 15'19		transit end	3295 Nov 21 17:58	29°M39'52	
max. Earth dist. 3295 Jan 31 18.05 7*≈5757 1.43306 AU direct discussion 3295 Dec 10 72.149 22°H.045 19°2751 superior conj 3295 Feb 07 04.02 18*≈2902 - 2°0524 greatest brilliang 3295 Dec 10 72.149 26°H.3436 19°2751 evening rise 3295 Feb 10 10.40 9*H 35°Z2 desc. node 3295 Dec 21 04.25 27*87705 -7*87705 evening rise 3295 Mar 03 10.33 29*H5049 18°0791 morning set 3295 Dac 31 08.32 27*37705 -7*87705 evening max el 3295 Mar 03 10.31 0°P° 18°0731 morning set 3295 Jan 1 07:12 21°E34611 1.44588 AU evening max el 3295 Mar 03 13:01 0°P° 18°0731 morning set 3296 Jan 1 8 02-0 27°E478 1-4887 AU evening rest 3295 Mar 1 10 3439 9°P°1532 18°C373 minimum clong 3296 Jan 1 8 02-0 27°E478 1-4887 AU evening rest 3295 Mar 2 4 07:39 4°P°0825 3°3127 evening rise 3296 Feb 10 10:40 20°E56 In 18°E30 27°E31618 18°8171 18°E471 18°E471<	morning set	3295 Jan 22 10:25	23° る 13'59		asc. node	3295 Nov 22 08:18	28°M53'40	
superior conj 3295 Feb 07 04.02 18*82902 2*0*5*24 greatest brilliancy 3295 Dec 10 20.10 0°π2 0°π2 minimum clong 3295 Feb 07 04.02 18*84994 2°0522 greatest brilliancy 3295 Dec 210 20.10 0°π2 0°π2 evening rise 3295 Feb 13 22.49 0°H desc. node 3295 Dec 210 82.20 1°R3705 - asc. node 3295 Mar 03 13.03 2°H3512 morning set 3295 Dec 210 82.20 1°R3206 - evening max el 3295 Mar 03 13.03 0°H° morning set 3295 Lan 14 07.12 2°F36411 1.44588 AU evening max el 3295 Mar 15 04.39 9°F3532 minimum clong 3296 Jan 18 02.04 2°F36478 148474 evening set 3295 Mar 12 03.93 9°F3532 3°3127 3296 Jan 19 11.10 0°m2 2°F3618 148211 4°8411 evening set 3295 Mar 24 09.11 4°F0429 3'3119 evening rise 3296 Feb 10 10.20 2°F3618 17*48157 148211 minimum clong 3295 Mar 24 09.11 4°F0429 3'3119 even		3295 Jan 26 18:14	0° ≈		morning rise	3295 Nov 27 06:36	23°M48'49	
Superior conj 3295 Feb 07 04.02 18*aey904 2*0522 greatest brilliancy 3295 Dec 10 42-15 14*2657 4.7m	max. Earth dist.	3295 Jan 31 18:05	7° ≈ 57'57	1.43306 AU	direct	3295 Nov 30 16:59	22°M40'52	
minimum elong 3295 Feb 13 2249 0°H desc. node 3295 Dec 21 04:25 14° &2657 -0.7m evening rise 3295 Feb 19 1040 9°H \$1522 6esc. node 3295 Dec 29 19:31 2°F \$77875 3295 Mar 10 1033 2°P \$45722 morning set 3295 Mar 10 1033 2°P \$45782 morning set 3295 Mar 10 1033 2°P \$45792 morning set 3295 Mar 14 07:12 2°F \$47824 1°E \$3206 1°E \$4871					morning max el	3295 Dec 07 21:49	26°M43'46	19°27'51
290	superior conj	3295 Feb 07 04:02	18° ≈ 29'02	-2°05'24		3295 Dec 10 20:10	0° ⊼	
evening rise 3295 Feb 19 10:40 9°*K3572 20°*K3703 20°*K3703 20°*K3703 10° 82.1 1°G320	minimum elong	3295 Feb 07 01:48	18° ≈ 19'44	2°05'22	greatest brilliancy	3295 Dec 21 04:25	14° ∡ ¹26'57	-0.7m
Substitution Subs		3295 Feb 13 22:49	0° ∀		desc. node	3295 Dec 29 19:31	27° ∡ ³37′05	
cevening max el 3.295 Mar 03 13.01 0°P' max. Earth dist. 3.296 Jan 14 07:12 21°E46'11 1.44588 AU cevening max el 3.295 Mar 08 16.38 6°P'3020 18°0731 superior conj 3.296 Jan 18 0.204 27°E4728 1-48'47 cevening set 3.295 Mar 17 0.216 9°P'1535 minimum elong 3.296 Jan 17 18:16 27°E16'18 148'11 inferior conj 3.295 Mar 24 09:11 4°P'04'29 3°31'19 evening rise 3.296 Feb 10 14:29 20°≈x52'40 minimum elong 3.295 Mar 24 09:11 4°P'04'29 3°31'19 evening rise 3.296 Feb 10 14:29 20°≈x52'40 cevening rise 3.295 Mar 28 11:17 30°R* asc. node 3.296 Feb 16 15:20 0°P* 3.295 Mar 28 11:17 30°R* asc. node 3.296 Feb 16 15:20 0°P* 3.295 Mar 30 17:38 28°P'08'47 cevening max el 3296 Feb 16 15:20 0°P* 3.295 Mar 30 17:38 28°P'08'47 cevening max el 3296 Feb 16 15:20 0°P* 3.295 Mar 28 11:17 30°R* asc. node 3.296 Feb 16 16:30 23°P'30'10 3.295 Mar 30 17:38 28°P'08'47 cevening max el 3296 Feb 26 16:30 23°P'30'10 3.295 Mar 10 10'10 0°P* cevening set 3.296 Feb 26 16:30 23°P'30'10 3.295 Mar 10 10'10 0°P* cevening set 3.296 Mar 08 12:30 1°P'30'13 3°P'30'18 27°51'08 minimum elong 3.296 Mar 08 12:30 1°P'30'13 3°P'30'18 27°51'08 minimum elong 3.296 Mar 08 12:30 1°P'30'13 3°P'30'18 3°P'30'18 3.296 Mar 08 12:30 1°P'30'13 3°P'30'18 3°P'30'18 3°P'30'18 3.296 Mar 08 12:30 1°P'30'13 1°P'30	evening rise	3295 Feb 19 10:40	9° ∺ 35'22			3295 Dec 31 08:32	5°0	
evening max el 3295 Mar 18 0.438 6°P'03020 18°0731 susperior conj 3296 Jan 18 0.204 2°P'64728 1°48′41 evening sct 3295 Mar 17 2316 9°P'1535 minimum elong 3296 Jan 17 18:16 2°P'61618 1°48′11 inferior conj 3295 Mar 24 07:39 4°P'0825 3°31'27 296 Jan 19 11:09 0°% minimum elong 3295 Mar 24 07:39 4°P'0825 3°31'27 296 Jan 19 11:09 0°% minimum elong 3295 Mar 24 07:39 4°P'0821 0.62056 AU 3296 Feb 16 15:20 0°% 3295 Mar 28 11:17 30°R} asc. node 3296 Feb 18 07:36 17°R'43'57 0°% direct 3295 Mar 30 17:38 28°R'98'5 evening max el 3296 Feb 20 16:30 22°R'20'56 18°P'43'54 18°P'43'54 direct 3295 Apr 16 16:06 0°P' retrograde 3296 Feb 20 16:30 22°R'14'44 19°R'16'45 3°39'02'6 morning max el 3295 Apr 20 17:12 26°B'11'12 evening set 3296 Feb 20 16:30 22°R'14'44 17°H'06'25 3'39'02'1 morning set	asc. node	3295 Mar 03 10:33	29° ∺ 50'49		morning set	3296 Jan 01 08:21		
retrograde		3295 Mar 03 13:01	0 ° $\mathbf{\Upsilon}$		max. Earth dist.	3296 Jan 14 07:12	21° る 46'11	1.44588 AU
evening set 3295 Mar 17 23:16 9°P°15'35 minimum elong 3296 Jan 17 18:16 27°₹16'18 148'11 inferior conj 3295 Mar 24 07:39 4°P'08'25 3°31'17 sevening rise 3296 Jan 19 11:09 0°≈	evening max el	3295 Mar 08 16:38	6° Ƴ 30′20	18°07'31				
inferior conj 3295 Mar 24 07:39 4°V0825 3°31'27 evening rise 3296 Jan 19 11:09 0°≈ 20°≈52'40 min. Earth dist. 3295 Mar 27 06:22 1°V0821 0.62056 AU 3296 Feb 10 04:29 20°≈52'40 0°% morning rise 3295 Mar 28 11:17 30°R% asc. node 3296 Feb 18 07:36 17°443'57 17°443'57 morning rise 3295 Apr 10 14:29 25°%39'56 retrograde 3296 Feb 20 05:11 19°¥50'42 18°21'31 desc. node 3295 Apr 06 14:29 25°%39'56 retrograde 3296 Feb 20 16:30 22°*10'85'5 32°*10'85'6 23°*10'85'6 3296 Feb 20 16:30 22°*10'85'5 32°*10'85'6 3296 Mar 08 14'85'7 32°*10'85'6 3296 Mar 08 14'85'7 32°*10'85'6 3296 Mar 08 14'85'7 32°*10'85'6 32°*10'85'6 32°*10'85'6 32°*10'85'6 32°*10'85'6 32°*10'85'6 32°*10'85'6 32°*10'85'6 32°*10'85'6 32°*10'85'6 32°*10'85'6 <td< td=""><td>retrograde</td><td>3295 Mar 15 04:39</td><td></td><td></td><td>superior conj</td><td>3296 Jan 18 02:04</td><td>27°る47'28</td><td>-1°48'47</td></td<>	retrograde	3295 Mar 15 04:39			superior conj	3296 Jan 18 02:04	27° る 47'28	-1°48'47
minimum elong 3295 Mar 24 09:11 4°°° V°° 429 3°31′19 evening rise 3296 Feb 10 10:429 20°≈s5240 P min. Earth dist. 3295 Mar 28 11:17 30°° R* 10°° 08°* 3295 Mar 30 17:38 28°* Mc8*4 evening max el 3296 Feb 18 07:36 10°° 8** 10°° 8** 10°° 8** 10°° 10°° 8** 10°° 10°° 11°° 11°° 11°° 11°° 11°° 11°°	-	3295 Mar 17 23:16			minimum elong	3296 Jan 17 18:16	27° る 16'18	1°48'11
min. Earth dist. 3295 Mar 27 06:22 1°°V08'21 0.62056 AU asc. node 3296 Feb 06 15:20 0°°\tau 17°\tau 43'57	inferior conj	3295 Mar 24 07:39				3296 Jan 19 11:09	0° ≈	
Morning rise 3295 Mar 28 11:17 30°R \ evening max el 3296 Feb 18 07:36 17°R \ 43'57 18'21'31 19'R \ 50'81	•				evening rise			
moming rise 3295 Apr 06 14:29 28° ± 08′ ± 08	min. Earth dist.	3295 Mar 27 06:22	1° Ƴ 08'21	0.62056 AU		3296 Feb 06 15:20		
direct 3295 Apr 06 14:29 25° \text{ 39'56} 26° \text{ 41'12} 26° \text{ 11'12} 27° 51'08 27° 51'08 22° 6 Mar 06 14:59 17° \text{ 17° 406'25} 3°30'03 295 May 10 07:04 0° \text{ 18° May 10 07:04} 0° \text{ 18° May 20 08:11} 0° \text{ 18° May 20 09:48} 8° \text{ 13'3731} 1.32431 AU desc. node 3296 Mar 19 08:41 8° \text{ 18° May 10 07:04} 3° \text{ 18° May 20 09:48} 8° \text{ 13'3731} 1.32431 AU desc. node 3296 May 10 08:48 48° \text{ 18° May 10 07:04} 3° \text{ 18° May 31 16:42} 11° \text{ 11' \text{ 12' 17'26} 0° 13'31 3296 May 10 09:38 0° \text{ 18° May 13 16:44} 11° \text{ 11' \text{ 12' 18' 10' 13'31} 3296 May 10 09:38 0° \text{ 18° May 13 18:53} 11° \text{ 10° N° May 13 18:54} 10° \text{ 10° May 13 18:54} 10° \text{ 10° N° May 13 18:54} 10° 10° N° May 13 18:		3295 Mar 28 11:17			asc. node	3296 Feb 18 07:36		
Sees. node 3295 Apr 10 21:41 26° H 11'12 evening set 3296 Feb 29 16:43 22° H 31'44 17° H 62'54 379'02 179' H 05'45 379'03 179' H 05'45 379'03 179' H 05'45 179' H 105'45 179' H	morning rise				•			18°21'31
morning max el 3295 Apr 16 16:06 0°°° inferior conj 3296 Mar 06 14:59 17° ±05'45 3°39'02 3295 May 10 07:04 0°B minimum elong 3296 Mar 06 14:44 17° ±06'25 3°39'03 3295 May 10 07:04 0°B minimum elong 3296 Mar 06 14:44 17° ±06'25 3°39'03 3295 May 24 05:29 25° ±38'28 morning rise 3296 Mar 12 11:59 10° ±57'41 40° ±07' ±10° ±10° ±10° ±10° ±10° ±10° ±10° ±10°	direct	-			retrograde			
morning max el 3295 Apr 20 17:12 3°Y37'18 27°51'08 minimum clong 3296 Mar 06 14:44 17°H0625 3°39'03 morning set 3295 May 10 07:04 0°B min. Earth dist. 3296 Mar 08 23:05 14°H25'48 0.63994 AU morning set 3295 May 24 05:29 25°B38'28 morning rise 3296 Mar 12 11:59 10°H57'41 8°H10'31 max. Earth dist. 3295 May 29 22:15 7°II37'31 1.32431 AU desc. node 3296 Mar 12 11:59 10°H57'41 8°H10'31 asc. node 3295 May 30 09:48 8°II39'57 morning max el 3296 Mar 26 18:43 10°H6'85'2 10°H6'85'2 superior conj 3295 May 31 16:42 11°II27'46 0°13'31 3296 May 12 00:153 16°H0'38 27°34'10 superior conj 3295 May 31 18:42 11°II24'20 0°13'22 morning set 3296 May 12 00:23 19°B4'3'38 1.33188 AU evening rise 3295 Jun 20 9 06:53 0°E superior conj 3296 May 14 22:57 25°B5'41 -0°13'55 evening max el 3295 Jun 26 20:31 0°Q superior conj 3296 May 14 22:57	desc. node	-			•	3296 Feb 29 16:43		
morning set 3295 May 10 07:04 0°B mini. Earth dist. 3296 Mar 08 23:05 14°H25'48 0.63994 AU morning set 3295 May 24 05:29 25°B38'28 morning rise 3296 Mar 12 11:59 10°H57'41 max. Earth dist. 3295 May 26 08:11 0°T direct 3296 Mar 12 11:59 10°H57'41 max. Earth dist. 3295 May 29 22:15 7°T3731 1.32431 AU desc. node 3296 Mar 12 11:59 10°H57'41 asc. node 3295 May 30 09:48 8°T39'57 morning max el 3296 Mar 26 18:43 10°H48'24 superior conj 3295 May 31 16:42 11°T27'46 0°13'31 3296 Mar 02 01:53 16°H06'38 27°34'10 minimum elong 3295 May 31 16:44 11°T27'46 0°13'31 3296 Mar 02 00:38 0°B minimum elong 3295 May 31 18:53 11°T39'38 evening rise 3295 May 31 18:53 11°T39'38 evening rise 3295 Jun 07 14:29 26°T27'26 superior conj 3296 May 14 22:57 25°B56'41 -0°13'55 evening max el 3295 Jun 09 06:53 0°B minimum elong 3296 May 14 22:57 25°B56'41 -0°13'55 evening max el 3295 Jul 06 20:55 10° \$\Ordote{0}0005 24°19'37 behind sun end 3296 May 14 00:20 0°T evening set 3295 Jul 1 06:53 13°\Ordote{0}25'32'1 12°\Ordote{0}33'1 1		•				3296 Mar 06 14:59		
Morning set 3295 May 24 05:29 25°8 38°28 morning rise 3296 Mar 12 11:59 10° π 57'41 max. Earth dist. 3295 May 26 08:11 0° π direct 3296 Mar 19 08:41 8° π 10° π 1	morning max el	*		27°51'08	•			3°39'03
Max. Earth dist. 3295 May 26 08:11 0°Π direct 3296 Mar 19 08:41 8°升10'31 max. Earth dist. 3295 May 29 22:15 7°Π37'31 1.32431 AU desc. node 3296 Mar 26 18:43 10°升48'24 morning max el 3296 Apr 02 01:53 16°升60'38 27°34'10 3296 Apr 13 12:41 0°°								0.63994 AU
max. Earth dist. 3295 May 29 22:15 7° Π37'31 1.32431 AU desc. node 3296 Mar 26 18:43 10° €48'24 asc. node 3295 May 30 09:48 8° Π39'57 morning max el 3296 Apr 02 01:53 16° €06'38 27°34'10 superior conj 3295 May 31 16:42 11° Π27'46 0°13'31 3296 May 02 00:38 0° € minimum elong 3295 May 31 16:04 11° Π27'46 0°13'32 morning set 3296 May 07 00:43 9° ₺34'33 1.33188 AU behind sun begin 3295 May 31 18:53 11° Π39'38 max. Earth dist. 3296 May 12 00:23 19° ₺43'38 1.33188 AU evening rise 3295 Jun 07 14:29 26° П27'26 superior conj 3296 May 14 22:57 25° ₺56'41 -0°13'55 3295 Jun 26 20:31 0° Ω minimum elong 3296 May 14 20:54 25° ₺4'36 0°13'46 evening max el 3295 Jul 20 13:32 6° Ω25'08 24° 19'37 behind sun begin 3296 May 14 20:54 25° ₺4'54'6 26° ₺15'04 evening max el 3295 Jul 21 06 20:55 10° Ω00'05 asc. node 3296 May 16 20:20 0° Π 28° ₺4'73	morning set				•	3296 Mar 12 11:59		
asc. node 3295 May 30 09:48 8° Π39'57 morning max el 3296 Apr 02 01:53 16° €06'38 27° 34'10 superior conj 3295 May 31 16:42 11° Π27'46 0°13'31 3296 May 02 00:38 0° Ե minimum elong 3295 May 31 16:04 11° Π24'20 0°13'32 morning set 3296 May 07 00:43 9° В34'33 1.33188 AU behind sun begin 3295 May 31 18:53 11° Π29'02 morning set 3296 May 12 00:23 19° В43'38 1.33188 AU evening rise 3295 Jun 09 06:53 0° Φ superior conj 3296 May 14 22:57 25° В56'41 -0° 13'55 evening max el 3295 Jun 26 20:31 0° Φ behind sun begin 3296 May 14 20:54 25° В45'46 evening max el 3295 Jul 26 20:31 0° Φ 24° 19'37 behind sun end 3296 May 16 20:20 0° Π evening set 3295 Jul 21 06:25 10° Φ00'05 asc. node 3296 May 16 20:20 0° Π evening set 3295 Jul 21 04:51 12° Φ33'21 evening rise 3296 May 16 20:20 11° Π13'31 minimum elong 3295 Jul 29 15:38<		•						
superior conj 3295 May 31 16:42 11° Π27'46 0°13'31 3296 May 02 00:38 0° Υ minimum elong 3295 May 31 16:04 11° Π24'20 0°13'32 morning set 3296 May 07 00:43 9° 834'33 1.33188 AU behind sun begin behind sun end behind sun end 3295 May 31 18:53 11° Π39'38 max. Earth dist. 3296 May 12 00:23 19° 843'38 1.33188 AU evening rise 3295 Jun 07 14:29 26° Π27'26 superior conj 3296 May 14 22:57 25° 856'41 -0° 13'55 evening max el 3295 Jun 26 20:31 0° Φ behind sun begin 3296 May 14 20:54 25° 845'46 evening max el 3295 Jul 02 13:32 6° Φ25'08 24° 19'37 behind sun end 3296 May 16 06:52 28° 847'36 retrograde 3295 Jul 16 09:54 13° Φ24'33 evening rise 3296 May 16 06:52 28° 847'36 evening set 3295 Jul 21 04:51 12° Φ33'21 evening rise 3296 May 16 06:52 28° 847'36 retrograde 3295 Jul 27 00:19 9° Φ38'24 0.56632 AU 3296 May 31 17:50 0° Φ inferior conj	max. Earth dist.	-		1.32431 AU				
superior conj 3295 May 31 16:42 11°Π27'46 0°13'31 3296 May 02 00:38 0°8 minimum elong 3295 May 31 16:04 11°Π24'20 0°13'22 morning set 3296 May 07 00:43 9°8'34'33 1.33188 AU behind sun begin behind sun end evening rise 3295 May 31 18:53 11°Π39'38 11°Π39'38 1.33188 AU evening rise 3295 Jun 07 14:29 26°Π27'26 superior conj 3296 May 14 22:57 25°8'56'41 -0°13'55 evening rise 3295 Jun 09 06:53 0°\$ superior conj 3296 May 14 22:57 25°8'56'41 -0°13'55 evening max el desc. node 3295 Jul 02 13:32 6°\$Ω25'08 24°19'37 behind sun begin 3296 May 14 20:54 25°8'84'36 25°8'84'36 retrograde 3295 Jul 06 20:55 10°\$Ω00'05 asc. node 3296 May 16 06:52 28°8'47'36 28°8'47'36 retrograde 3295 Jul 16 09:54 13°\$Ω24'33 evening rise 3296 May 11 7:50 0°\$ 11°\$\$\mathra{1}\$\mat	asc. node	3295 May 30 09:48	8° Ⅱ 39'57		morning max el	•		27°34'10
minimum elong 3295 May 31 16:04 11° Π24'20 0°13'22 morning set 3296 May 07 00:43 9°834'33 1.33188 AU behind sun begin behind sun end behind sun end evening rise 3295 May 31 18:53 11° Π39'38 11° Π39'38 11° Π39'38 11° Π39'38 26° Π27'26 superior conj 3296 May 14 22:57 25° ₹56'41 -0°13'55 25° ₹56'41 -0°13'55 25° ₹56'41 -0°13'55 26° ₹00'25 0°\$ minimum elong 3296 May 14 22:57 25° ₹56'41 -0°13'55 26° ₹00'25 0°13'46 26° ₹00'25 0°\$ minimum elong 3296 May 14 22:57 25° ₹56'41 -0°13'55 26° ₹00'25 0°13'46 26° ₹00'25 0°13'46 26° ₹00'25 0°13'46 26° ₹00'25 0°13'46 25° ₹45'46 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td>-</td> <td></td> <td></td>						-		
behind sun begin behind sun end 3295 May 31 13:16 11° Π09′02 max. Earth dist. 3296 May 12 00:23 19° 843′38 1.33188 AU behind sun end 3295 May 31 18:53 11° Π39′38 evening rise 3295 Jun 07 14:29 26° Π27′26 superior conj 3296 May 14 22:57 25° 856′41 -0°13′55 22° 835′41 3295 Jun 09 06:53 0° 5 minimum elong 3296 May 14 22:57 25° 845′46 evening max el 3295 Jul 02 13:32 6° Ω25′08 24°19′37 behind sun end 3296 May 15 02:24 26° 85′41′46 evening set 3295 Jul 16 09:54 13° Ω24′33 evening set 3295 Jul 16 09:54 13° Ω24′33 evening set 3295 Jul 21 04:51 12° Ω33′21 evening rise 3296 May 16 06:52 28° 84′736 evening set 3295 Jul 27 00:19 9° Ω38′24 0.56632 AU 3296 May 17:50 0° 5 22° 43′01 minimum elong 3295 Jul 29 15:38 7° Ω58′48 -5°00′01 evening max el 3296 Jun 13 03:22 16° 55′56′56′56′56′56′56′56′56′56′56′56′56′5		•				•		
behind sun end evening rise 3295 May 31 18:53	•	-		0°13'22	•			
evening rise 3295 Jun 07 14:29 26°Π27'26 superior conj 3296 May 14 22:57 25°♥56'41 -0°13'55 3295 Jun 09 06:53 0°Φ minimum elong 3296 May 14 23:39 26°♥00'25 0°13'46 evening max el 3295 Jun 26 20:31 0°Ω behind sun begin 3296 May 14 20:54 25°♥45'46 evening max el 3295 Jul 02 13:32 6°Ω25'08 24°19'37 behind sun end 3296 May 15 02:24 26°♥15'04 desc. node 3295 Jul 10°Ω0'05 asc. node 3296 May 16 06:52 28°♥47'36 retrograde 3295 Jul 16 09:54 13°Ω24'33 3296 May 16 20:20 0°Π evening set 3295 Jul 21 04:51 12°Ω33'21 evening rise 3296 May 22 02:05 11°Π13'31 min. Earth dist. 3295 Jul 27 00:19 9°Ω38'24 0.56632 AU 3296 May 31 17:50 0°Φ inferior conj 3295 Jul 29 15:38 7°Ω58'48 -5°00'01 evening max el 3296 Jun 13 03:22 16°Φ50'56 22°43'01 minimum elong 3295 Jul 29 12:27 8°Ω03'51 4°59'46 desc. node 3296	•	-			max. Earth dist.	3296 May 12 00:23	19° 8 43'38	1.33188 AU
3295 Jun 09 06:53 0°S minimum elong 3296 May 14 23:39 26°800'25 0°13'46 3295 Jun 26 20:31 0°Ω behind sun begin 3296 May 14 20:54 25°845'46 evening max el 3295 Jul 02 13:32 6°Ω25'08 24°19'37 behind sun end 3296 May 15 02:24 26°815'04 desc. node 3295 Jul 06 20:55 10°Ω00'05 asc. node 3296 May 16 06:52 28°847'36 retrograde 3295 Jul 16 09:54 13°Ω24'33 evening rise 3296 May 16 20:20 0°I evening set 3295 Jul 21 04:51 12°Ω33'21 evening rise 3296 May 20 02:05 11°I 13'31 min. Earth dist. 3295 Jul 27 00:19 9°Ω38'24 0.56632 AU 3296 May 31 17:50 0°S inferior conj 3295 Jul 29 15:38 7°Ω58'48 -5°00'01 evening max el 3296 Jun 13 03:22 16°S50'56 22°43'01 minimum elong 3295 Jul 29 12:27 8°Ω03'51 4°59'46 desc. node 3296 Jun 26 08:57 23°S26'02 morning rise 3295 Aug 06 22:42 3°Ω57'16 retrograde 3296 Jun 26 08:57 23°S26'02		-						
Sevening max el 3295 Jul 26 20:31 0°Ω behind sun begin 3296 May 14 20:54 25°\beta 45'46 evening max el 3295 Jul 02 13:32 6°\Omega 25'08 24°19'37 behind sun end 3296 May 15 02:24 26°\beta 15'04 desc. node 3295 Jul 06 20:55 10°\Omega 00'05 asc. node 3296 May 16 06:52 28°\beta 47'36 retrograde 3295 Jul 21 04:51 12°\Omega 33'21 evening rise 3296 May 16 20:20 0°\II = vening rise 3296 May 16 20:20 11°\II 13'31 min. Earth dist. 3295 Jul 27 00:19 9°\Omega 38'24 0.56632 AU 3296 May 31 17:50 0°\omega 15:38 7°\Omega 58'48 -5°00'01 evening max el 3296 Jul 23 17:56 22°\Omega 55'54 morning rise 3295 Aug 06 22:42 3°\Omega 57'16 retrograde 3296 Jun 26 08:57 23°\Omega 26'02	evening rise					•		
evening max el 3295 Jul 02 13:32 6°\Omega 25'08 24°19'37 behind sun end 3296 May 15 02:24 26°\Omega 15'04 desc. node 3295 Jul 06 20:55 10°\Omega 00'05 asc. node 3296 May 16 06:52 28°\Omega 47'36 retrograde 3295 Jul 16 09:54 13°\Omega 24'33 evening set 3295 Jul 21 04:51 12°\Omega 33'21 evening rise 3296 May 16 20:20 0°\Omega 4 evening set 3295 Jul 27 00:19 9°\Omega 38'24 0.56632 AU 3296 May 31 17:50 0°\Omega 5 inferior conj 3295 Jul 29 15:38 7°\Omega 58'48 -5°00'01 evening max el 3296 Jun 13 03:22 16°\Omega 50'56 22°\Omega 5'554 morning rise 3295 Aug 06 22:42 3°\Omega 55'16 retrograde 3296 Jun 26 08:57 23°\Omega 26'02					•	•		0°13'46
desc. node 3295 Jul 06 20:55 10°\(\Omega\)00005 asc. node 3296 May 16 06:52 28°\(\Seta\)4736 retrograde 3295 Jul 16 09:54 13°\(\Omega\)24'33 evening set 3295 Jul 21 04:51 12°\(\Omega\)33'21 evening rise 3296 May 22 02:05 11°\(\Omega\)13'31 min. Earth dist. 3295 Jul 27 00:19 9°\(\Omega\)38'24 0.56632 AU 3296 May 31 17:50 0°\(\Omega\) inferior conj 3295 Jul 29 15:38 7°\(\Omega\)58'48 -5°00'01 evening max el 3296 Jun 13 03:22 16°\(\Omega\)50'56 22°\(\Omega\)5'55 morning rise 3295 Aug 06 22:42 3°\(\Omega\)57'16 retrograde 3296 Jun 26 08:57 23°\(\Omega\)26'02						•		
retrograde 3295 Jul 16 09:54 13°\(\Omega\)24'33	•			24°19'37		•		
evening set 3295 Jul 21 04:51 12°\(\Omega\)3291 evening rise 3296 May 22 02:05 11°\(\Omega\)13'31 min. Earth dist. 3295 Jul 27 00:19 9°\(\Omega\)38'24 0.56632 AU 3296 May 31 17:50 0°\(\Omega\) inferior conj 3295 Jul 29 15:38 7°\(\Omega\)58'48 -5°00'01 evening max el 3296 Jun 13 03:22 16°\(\Omega\)50'56 22°\(\Omega\)3'01 minimum elong 3295 Jul 29 12:27 8°\(\Omega\)03'51 4°\(\Omega\)5'46 desc. node 3296 Jun 22 17:56 22°\(\Omega\)55'54 morning rise 3295 Aug 06 22:42 3°\(\Omega\)55'16 retrograde 3296 Jun 26 08:57 23°\(\Omega\)26'02					asc. node	•		
min. Earth dist. 3295 Jul 27 00:19 9° \(\Omega \) 38'24 0.56632 AU 3296 May 31 17:50 0° \(\Omega \) inferior conj 3295 Jul 29 15:38 7° \(\Omega \) 58'48 -5°00'01 evening max el 3296 Jun 13 03:22 16° \(\Omega \) 50'56 22° 43'01 minimum elong 3295 Jul 29 12:27 8° \(\Omega \) 03'51 4° 59'46 desc. node 3296 Jun 26 08:57 23° \(\Omega \) 50'55'54 morning rise 3295 Aug 06 22:42 3° \(\Omega \) 57'16 retrograde 3296 Jun 26 08:57 23° \(\Omega \) 22' 26'02	•					•		
inferior conj 3295 Jul 29 15:38	•				evening rise			
minimum elong 3295 Jul 29 12:27 8° Ω 03'51 4°59'46 desc. node 3296 Jun 22 17:56 22° \mathfrak{S} 55'54 morning rise 3295 Aug 06 22:42 3° Ω 57'16 retrograde 3296 Jun 26 08:57 23° \mathfrak{S} 26'02								
morning rise 3295 Aug 06 22:42 3°Ω57'16 retrograde 3296 Jun 26 08:57 23°526'02					•			22°43'01
· · · · · · · · · · · · · · · · · · ·	_			4°59'46				
direct 3295 Aug 09 15:01 3°6 \(\lambda 38'\)03 evening set 3296 Jun 29 15:42 23°\(\sigma 02'\)23	=	-			-			
	direct	3295 Aug 09 15:01	3° {\2 38'03		evening set	3296 Jun 29 15:42	23° © 02'23	

min Earth diat	3296 Jul 07 11:32	100626101	0.55210 ATT	daga mada	3297 Jun 09 14:58	3° © 05'36	
min. Earth dist.			0.55318 AU	desc. node			
inferior conj	3296 Jul 08 19:56	18°949'37			3297 Jun 17 03:26	30°RⅡ	202.424
minimum elong	3296 Jul 08 12:03	19°500'56	4°08'56	inferior conj	3297 Jun 18 13:53	29° Ⅱ 11'56	
morning rise	3296 Jul 17 10:38	14°958'23		minimum elong	3297 Jun 18 06:55	29° Ⅱ 21'44	
direct	3296 Jul 20 09:33	14° © 38'11		min. Earth dist.	3297 Jun 18 23:10	28° ∏ 58'53	0.54854 AU
morning max el	3296 Jul 31 14:40	19° © 50'39	20°54'01	morning rise	3297 Jun 27 09:19	25° Ⅱ 13'17	
	3296 Aug 08 19:03	$0^{\circ}\Omega$		direct	3297 Jun 30 19:21	24° ∏ 47'59	
asc. node	3296 Aug 12 06:06	5° Ω 43'11			3297 Jul 12 14:05	0	
morning set	3296 Aug 20 01:11	20° Ω 49′13		morning max el	3297 Jul 13 12:52	0° © 51'16	22°28'39
	3296 Aug 24 11:04	O° Mp		asc. node	3297 Jul 30 03:09	24° © 53'26	
					3297 Aug 01 17:29	$\mathfrak{O}^{\circ}\mathfrak{O}$	
superior conj	3296 Aug 27 11:58	6° Mp 17′37	1°44'27	morning set	3297 Aug 04 11:34	5° Ω 40'14	
minimum elong	3296 Aug 27 11:32	6° Mp 15′22	1°44'26				
max. Earth dist.	3296 Sep 01 02:29	15° m 33'48	1.35719 AU	superior conj	3297 Aug 11 14:58	20° Ω 51'57	1°38'56
evening rise	3296 Sep 05 04:59	23° m 26'23		minimum elong	3297 Aug 11 13:23	20° Ω 43'34	1°38'50
* · · · · · · · · · · · · · · · · · · ·	3296 Sep 08 19:04	0ಂ ರ		max. Earth dist.	3297 Aug 14 19:28	27° Ω 32'47	1.34206 AU
desc. node	3296 Sep 18 17:16	16° ≏ 36'50		man. Bartir dist.	3297 Aug 16 00:07	0° m)	1.5 .200110
dese. Hode	3296 Sep 27 20:20	0°M		evening rise	3297 Aug 10 00:07 3297 Aug 19 12:46	7° Mp 03'03	
avanina may al	3296 Oct 10 18:24		26°22'47	evening rise	•	0∘ ʊ	
evening max el			20 22 47	1 1	3297 Sep 01 09:25		
retrograde	3296 Oct 23 13:23	22°M32'15		desc. node	3297 Sep 05 14:18	6° £ 34'29	25005125
evening set	3296 Oct 29 23:00	19°M54'42		evening max el	3297 Sep 23 06:56	28° ♀ 52'34	2/0//3/
min. Earth dist.	3296 Nov 03 02:32	15°M34'09	0.66368 AU		3297 Sep 24 12:01	0°M₊	
inferior conj	3296 Nov 04 16:42	13°M37'53	-1°12'11	retrograde	3297 Oct 06 14:34	6°M10'06	
minimum elong	3296 Nov 04 18:39	13°M31'57	1°11'22	evening set	3297 Oct 13 11:36	3° ™ 27'59	
asc. node	3296 Nov 08 05:19	9° ™ 41'03			3297 Oct 17 02:33	30° ₽ Ω	
morning rise	3296 Nov 10 14:52	7°M50'45		min. Earth dist.	3297 Oct 17 08:41	29° ≏ 43'13	0.65150 AU
direct	3296 Nov 13 15:14	6° M 59'14		inferior conj	3297 Oct 19 10:52	27° £ 22'28	-2°12'26
morning max el	3296 Nov 20 08:12	10°M40'34	18°38'55	minimum elong	3297 Oct 19 14:32	27° ♀ 12'10	2°11'01
	3296 Dec 04 04:46	0° ∡ ¹		morning rise	3297 Oct 25 18:22	21° ≏ 48'16	
morning set	3296 Dec 11 03:00	10° ∡ 757'33		asc. node	3297 Oct 26 02:22	21° ≏ 39'19	
desc. node	3296 Dec 15 16:34	18° ∡ 11'13		direct	3297 Oct 28 11:04	21° ≏ 09'20	
***************************************	3296 Dec 23 04:38	0°ප		morning max el	3297 Nov 03 23:01	24° £ 38'26	18°06'36
	32,0 BCC 23 01.30	ů O		morning max or	3297 Nov 08 09:01	0°M	10 00 50
superior conj	3296 Dec 27 06:16	6° ප 23'05	1013110	morning set	3297 Nov 22 03:06	21°M51'20	
	3296 Dec 27 00:10 3296 Dec 26 21:43	5° る 49'32		morning set		0° x ⁷	
minimum elong				1 1	3297 Nov 27 01:58		
max. Earth dist.	3296 Dec 27 00:45	6° ප 01'26	1.45191 AU	desc. node	3297 Dec 02 13:37	8° ≯ 753'09	
	3297 Jan 11 04:56	0° ≈					
evening rise	3297 Jan 11 23:09	1°≈12'43		superior conj	3297 Dec 06 11:40	15° ₹ 08'34	
greatest brilliancy	3297 Jan 20 01:57	14°≈10'21	-0.8m	minimum elong	3297 Dec 06 08:20	14° ₹ 55'19	
	3297 Jan 30 18:59	0° ∀		max. Earth dist.	3297 Dec 09 20:04	20° ∡ ¹26'22	1.45050 AU
evening max el	3297 Feb 02 15:50	3° ₩ 18'16	18°53'29		3297 Dec 15 22:36	0°₹	
asc. node	3297 Feb 04 04:38	4°) (44′27		evening rise	3297 Dec 22 20:24	10°る43'45	
retrograde	3297 Feb 09 10:36	7° ₩ 06'55			3298 Jan 04 09:49	0° ≈	
evening set	3297 Feb 12 17:06	6°) €05'18		greatest brilliancy	3298 Jan 04 22:50	0° ≈ 48'48	-0.7m
inferior conj	3297 Feb 18 08:27	0°) 22′16	3°29'54	evening max el	3298 Jan 16 22:33	16° ≈ 49'08	19°41'56
minimum elong	3297 Feb 18 06:54	0°) 27′08	3°29'44	asc. node	3298 Jan 22 01:39	20° ≈ 38'14	
C	3297 Feb 18 15:35	30°R≈		retrograde	3298 Jan 24 07:51	21°≈05'53	
min. Earth dist.	3297 Feb 20 01:01	28°≈16'10	0.65581 AU	evening set	3298 Jan 27 21:53	19° ≈ 50'40	
morning rise	3297 Feb 23 20:18	24°≈10'16		inferior conj	3298 Feb 02 08:55	13° ≈ 52'44	3°08'09
direct	3297 Mar 02 09:55	21°≈19'08		minimum elong	3298 Feb 02 06:36		3°07'39
desc. node	3297 Mar 13 15:46	27°≈15'38		min. Earth dist.	3298 Feb 03 10:50	12°≈27'10	0.66756 AU
		27 ≈1338 29°≈01'52	26945124			7°≈39'20	0.00750 AU
morning max el	3297 Mar 15 11:45		20 43 24	morning rise	3298 Feb 07 15:06		
	3297 Mar 16 10:21	0° ∀		direct	3298 Feb 13 16:56	4°≈56'47	25022122
	3297 Apr 07 08:44	0° Υ		morning max el	3298 Feb 25 20:52	12° ≈ 11'43	25°33'22
morning set	3297 Apr 20 09:14	22° Y 55'05		desc. node	3298 Feb 28 12:50	15° ≈ 02'17	
	3297 Apr 24 00:37	0°8			3298 Mar 12 04:21	0° ∀	
max. Earth dist.	3297 Apr 24 16:02	1° 8 16'46	1.34406 AU		3298 Mar 31 01:31	0 ° Υ	
				morning set	3298 Apr 03 02:39	5° Y 27'22	
superior conj	3297 Apr 28 23:28	10° 8 03'55	-0°42'32	max. Earth dist.	3298 Apr 06 20:20	12° Y 23'48	1.36079 AU
minimum elong	3297 Apr 29 01:41	10° 8 15'26	0°42'05				
asc. node	3297 May 03 03:55	18° 8 50'14		superior conj	3298 Apr 12 15:32	23° Y 41'53	-1°10'52
evening rise	3297 May 06 11:46	25° 8 48'55		minimum elong	3298 Apr 12 19:13	24° Y ′00'15	1°10'14
Č	3297 May 08 12:34	0°II		3	3298 Apr 15 18:27	0°8	
evening max el	3297 May 26 00:27	27° I I32'02	21°12'03	asc. node	3298 Apr 20 00:59	8° 8 43'41	
	3297 May 28 00:27 3297 May 28 21:13	0°95		evening rise	3298 Apr 20 17:25	10° 8 07'19	
retrograde	3297 Jun 06 22:29	3° 5 22'13		- · · · · · · · · · · · · · · · · · · ·	3298 May 01 11:14	0°II	
evening set	3297 Jun 00 22:29 3297 Jun 09 04:48	3°910'21		evening max el	3298 May 08 09:08	8° П 49'12	10°56'22
evening set	527 Juli 07 04.40	J - 10 21		Croning max ci	5270 141ay 00 07.00	о д 1 912	17 30 23

matera ama da	3298 May 18 13:48	13° ∏ 46′18		avanina aat	2200 May 01 22:11	24° 8 42'57	
retrograde	-			evening set	3299 May 01 22:11		1012112
evening set	3298 May 20 13:16	13° Ⅱ 35'56		inferior conj	3299 May 10 01:40	20° 8 27'58	1°13'13
desc. node	3298 May 27 12:00	10° ∏ 46'25	0025106	minimum elong	3299 May 10 04:23	20° 8 23'11	1°12'17
inferior conj	3298 May 29 11:38	9° ∏ 35'33		min. Earth dist.	3299 May 13 03:43	18° 8 19'12	0.56718 AU
minimum elong	3298 May 29 10:01	9° ∏ 38′00	0°34'29	desc. node	3299 May 14 09:03	17° 8 31'31	
min. Earth dist.	3298 May 31 12:11	8° Ⅱ 22'04	0.55357 AU	morning rise	3299 May 18 07:27	15° 8 28'03	
morning rise	3298 Jun 07 04:49	5° Ⅱ 11′03		direct	3299 May 23 11:36	14° 8 24'44	
direct	3298 Jun 11 09:17	4° Ⅱ 32'38		morning max el	3299 Jun 06 18:41	21° 8 47'38	25°48'06
morning max el	3298 Jun 25 04:06	11° Ⅱ 21'38	24°11'27		3299 Jun 13 23:22	Π $^{\circ}0$	
	3298 Jul 09 05:46	0∘ ௐ			3299 Jul 01 19:27	0ං වෙ	
asc. node	3298 Jul 17 00:13	14° © 27'13		asc. node	3299 Jul 03 21:16	4° © 17'20	
morning set	3298 Jul 19 23:18	20° © 35'06		morning set	3299 Jul 04 10:44	5° © 28'15	
	3298 Jul 24 08:20	$\mathfrak{O}^{\circ}\mathfrak{O}$					
				superior conj	3299 Jul 11 09:47	20°535'36	1°11'48
superior conj	3298 Jul 26 22:57	5° Ω 40'22	1°27'45	minimum elong	3299 Jul 11 07:26	20° © 22'41	1°11'26
minimum elong	3298 Jul 26 20:44	5° Ω 28'21	1°27'30	max. Earth dist.	3299 Jul 12 05:59	22° © 26'29	1.32391 AU
max. Earth dist.	3298 Jul 28 21:27	9° Ω 51'09	1.33097 AU		3299 Jul 15 17:32	$0^{\circ}\Omega$	
evening rise	3298 Aug 03 07:39	21°Ω11'33	1.550), 110	evening rise	3299 Jul 18 10:19	5° Ω 41'53	
evening rise	3298 Aug 07 19:28	0° m)		evening rise	3299 Jul 31 09:47	0°m/	
daga mada	•	رابات 0 26° 10) 01'49		desc. node		-	
desc. node	3298 Aug 23 11:18	•			3299 Aug 10 08:18	14° Mp 46'32	27012120
	3298 Aug 26 08:00	0∘ ⊽		evening max el	3299 Aug 19 01:28	24° m/41'38	27°13'29
evening max el	3298 Sep 05 18:08	12° Ω 04'10	27°26'14	_	3299 Aug 26 02:09	0∘ ত	
retrograde	3298 Sep 19 09:29	19° ≏ 20'52		retrograde	3299 Sep 01 21:35	1° £ 55'39	
evening set	3298 Sep 26 13:32	16° ≏ 43'31			3299 Sep 08 08:57	30° ₽, ™	
min. Earth dist.	3298 Sep 30 05:30	13° ≏ 32'01	0.63589 AU	evening set	3299 Sep 09 01:04	29° m 35'08	
inferior conj	3298 Oct 02 20:03	10° ≙ 53'43	-3°11'59	min. Earth dist.	3299 Sep 12 15:45	26° Mp49′02	0.61721 AU
minimum elong	3298 Oct 03 01:11	10° ≙ 40'40	3°10'17	inferior conj	3299 Sep 15 17:11	24° Mp 04'23	-4°06'28
morning rise	3298 Oct 09 14:08	5° ≏ 36'01		minimum elong	3299 Sep 15 22:55	23° m 51'28	4°05'03
direct	3298 Oct 12 01:44	5° ≏ 06'02		morning rise	3299 Sep 22 22:29	19° Mp 06'37	
asc. node	3298 Oct 12 23:25	5° £ 10′05		direct	3299 Sep 25 07:41	18° m 42'33	
morning max el	3298 Oct 18 15:29	8° ≏ 31'21	17°51'39	asc. node	3299 Sep 29 20:28	20° m 12'52	
	3298 Nov 01 21:46	0°M		morning max el	3299 Oct 02 06:37	22° m/ 12'28	17°54'59
morning set	3298 Nov 04 05:17	4°M00'42		morning max or	3299 Oct 08 07:04	0° ರ	17 3 137
morning set	3270 1101 04 03.17	4 11000 42		morning set	3299 Oct 18 03:15	0 — 17° Ω 06'36	
superior conj	3298 Nov 16 13:00	24°M54'51	0°19'53	morning set	3299 Oct 18 03:13 3299 Oct 25 06:52	0° ™	
	3298 NOV 10 13.00				3299 Oct 23 00.32	U IIG	
minimum alana	2200 Nov. 16 15:05	250M 02127	0910125				
minimum elong	3298 Nov 16 15:05	25°M03'27	0°19'35		2200 0 4 20 17 10	60 m 00154	0057122
minimum elong desc. node	3298 Nov 19 10:37	29°M39'16	0°19'35	superior conj	3299 Oct 28 17:18	6°M00'54	0°57'22
desc. node	3298 Nov 19 10:37 3298 Nov 19 15:44	29° ™ 39'16 0° ⊀		minimum elong	3299 Oct 28 21:33	6° M 19'15	0°56'50
desc. node max. Earth dist.	3298 Nov 19 10:37 3298 Nov 19 15:44 3298 Nov 22 14:04	29° M 39'16 0° ₹ 4° ₹ 42'56	0°19'35 1.44190 AU	minimum elong max. Earth dist.	3299 Oct 28 21:33 3299 Nov 05 03:42	6°M19'15 18°M32'32	
desc. node	3298 Nov 19 10:37 3298 Nov 19 15:44 3298 Nov 22 14:04 3298 Dec 02 05:58	29°M39'16 0°♂ 4°♂42'56 19°♂51'30		minimum elong max. Earth dist. desc. node	3299 Oct 28 21:33 3299 Nov 05 03:42 3299 Nov 06 07:37	6°M19'15 18°M32'32 20°M26'37	0°56'50
desc. node max. Earth dist.	3298 Nov 19 10:37 3298 Nov 19 15:44 3298 Nov 22 14:04	29° M 39'16 0° ₹ 4° ₹ 42'56		minimum elong max. Earth dist.	3299 Oct 28 21:33 3299 Nov 05 03:42	6°M19'15 18°M32'32 20°M26'37 29°M16'09	0°56'50
desc. node max. Earth dist.	3298 Nov 19 10:37 3298 Nov 19 15:44 3298 Nov 22 14:04 3298 Dec 02 05:58	29°M39'16 0°♂ 4°♂42'56 19°♂51'30		minimum elong max. Earth dist. desc. node	3299 Oct 28 21:33 3299 Nov 05 03:42 3299 Nov 06 07:37	6°M19'15 18°M32'32 20°M26'37	0°56'50
desc. node max. Earth dist.	3298 Nov 19 10:37 3298 Nov 19 15:44 3298 Nov 22 14:04 3298 Dec 02 05:58 3298 Dec 08 21:40	29°M39'16 0°メ 4°メ42'56 19°メ51'30 0°る		minimum elong max. Earth dist. desc. node	3299 Oct 28 21:33 3299 Nov 05 03:42 3299 Nov 06 07:37 3299 Nov 11 19:59	6°M19'15 18°M32'32 20°M26'37 29°M16'09	0°56'50
desc. node max. Earth dist. evening rise	3298 Nov 19 10:37 3298 Nov 19 15:44 3298 Nov 22 14:04 3298 Dec 02 05:58 3298 Dec 08 21:40 3298 Dec 30 15:57	29° M39'16 0° 水 4° 水 42'56 19° 水 51'30 0° ♂ 0° ≈	1.44190 AU	minimum elong max. Earth dist. desc. node	3299 Oct 28 21:33 3299 Nov 05 03:42 3299 Nov 06 07:37 3299 Nov 11 19:59 3299 Nov 12 07:08	6°M19'15 18°M32'32 20°M26'37 29°M16'09 0°⊀	0°56'50
desc. node max. Earth dist. evening rise evening max el	3298 Nov 19 10:37 3298 Nov 19 15:44 3298 Nov 22 14:04 3298 Dec 02 05:58 3298 Dec 08 21:40 3298 Dec 30 15:57 3298 Dec 30 23:56	29° M.39'16 0° 🗗 4° 🗗 42'56 19° 🗗 51'30 0° 云 0° ≈ 0° ≈ 0° ≈20'42	1.44190 AU	minimum elong max. Earth dist. desc. node evening rise	3299 Oct 28 21:33 3299 Nov 05 03:42 3299 Nov 06 07:37 3299 Nov 11 19:59 3299 Nov 12 07:08 3299 Dec 02 13:48	6°M19'15 18°M32'32 20°M26'37 29°M16'09 0°ズ	0°56'50 1.42720 AU
max. Earth dist. evening rise evening max el retrograde	3298 Nov 19 10:37 3298 Nov 19 15:44 3298 Nov 22 14:04 3298 Dec 02 05:58 3298 Dec 08 21:40 3298 Dec 30 15:57 3298 Dec 30 23:56 3299 Jan 08 05:53	29° M.39'16 0° 🖈 4° 🗗 42'56 19° 🕇 51'30 0° 云 0° ≈ 0° ≈ 0° ≈ 20'42 5° ≈ 13'05	1.44190 AU	minimum elong max. Earth dist. desc. node evening rise	3299 Oct 28 21:33 3299 Nov 05 03:42 3299 Nov 06 07:37 3299 Nov 11 19:59 3299 Nov 12 07:08 3299 Dec 02 13:48 3299 Dec 13 19:44	6°M19'15 18°M32'32 20°M26'37 29°M16'09 0°♂ 0°♂ 13°♂53'17	0°56'50 1.42720 AU
max. Earth dist. evening rise evening max el retrograde asc. node	3298 Nov 19 10:37 3298 Nov 19 15:44 3298 Nov 22 14:04 3298 Dec 02 05:58 3298 Dec 08 21:40 3298 Dec 30 15:57 3298 Dec 30 23:56 3299 Jan 08 05:53 3299 Jan 08 22:41	29°M39'16 0°ズ 4°ズ'42'56 19°ズ'51'30 0°云 0°≈ 0°≈20'42 5°≈13'05 5°≈10'22	1.44190 AU	minimum elong max. Earth dist. desc. node evening rise evening max el retrograde asc. node	3299 Oct 28 21:33 3299 Nov 05 03:42 3299 Nov 06 07:37 3299 Nov 11 19:59 3299 Nov 12 07:08 3299 Dec 02 13:48 3299 Dec 13 19:44 3299 Dec 23 02:49	6°M19'15 18°M32'32 20°M26'37 29°M16'09 0°ダ 0°उ 13°उ53'17 19°उ25'16	0°56'50 1.42720 AU
max. Earth dist. evening rise evening max el retrograde asc. node	3298 Nov 19 10:37 3298 Nov 19 15:44 3298 Nov 22 14:04 3298 Dec 02 05:58 3298 Dec 08 21:40 3298 Dec 30 15:57 3298 Dec 30 23:56 3299 Jan 08 05:53 3299 Jan 08 22:41 3299 Jan 12 05:00	29° M 39'16 0° ₹ 4° ₹ 42'56 19° ₹ 51'30 0° ₹ 0° ≈ 0° ≈ 20'42 5° ≈ 13'05 5° ≈ 10'22 3° ≈ 43'06	1.44190 AU 20°44'33	minimum elong max. Earth dist. desc. node evening rise evening max el retrograde	3299 Oct 28 21:33 3299 Nov 05 03:42 3299 Nov 06 07:37 3299 Nov 11 19:59 3299 Nov 12 07:08 3299 Dec 02 13:48 3299 Dec 13 19:44 3299 Dec 23 02:49 3299 Dec 26 19:43	6°M19'15 18°M32'32 20°M26'37 29°M16'09 0°ズ 0°G 13°G53'17 19°G25'16 18°G11'10 17°G39'32	0°56'50 1.42720 AU
max. Earth dist. evening rise evening max el retrograde asc. node evening set inferior conj	3298 Nov 19 10:37 3298 Nov 19 15:44 3298 Nov 22 14:04 3298 Dec 02 05:58 3298 Dec 08 21:40 3298 Dec 30 15:57 3298 Dec 30 23:56 3299 Jan 08 05:53 3299 Jan 08 22:41 3299 Jan 12 05:00 3299 Jan 15 17:53 3299 Jan 17 13:49	29°M39'16 0° ₹ 4° ₹42'56 19° ₹51'30 0° ₹ 0° ≈ 0° ≈ 0° ≈20'42 5° ≈13'05 5° ≈10'22 3° ≈43'06 30° ₹₹ 27° ₹32'56	1.44190 AU 20°44'33	minimum elong max. Earth dist. desc. node evening rise evening max el retrograde asc. node evening set inferior conj	3299 Oct 28 21:33 3299 Nov 05 03:42 3299 Nov 06 07:37 3299 Nov 11 19:59 3299 Nov 12 07:08 3299 Dec 02 13:48 3299 Dec 13 19:44 3299 Dec 23 02:49 3299 Dec 26 19:43 3299 Dec 27 12:42 3300 Jan 01 21:03	6°M19'15 18°M32'32 20°M26'37 29°M16'09 0°ズ 0°G 13°G53'17 19°G25'16 18°G11'10 17°G39'32 11°G20'29	0°56′50 1.42720 AU 21°57′54
desc. node max. Earth dist. evening rise evening max el retrograde asc. node evening set inferior conj minimum elong	3298 Nov 19 10:37 3298 Nov 19 15:44 3298 Nov 22 14:04 3298 Dec 02 05:58 3298 Dec 08 21:40 3298 Dec 30 15:57 3298 Dec 30 23:56 3299 Jan 08 05:53 3299 Jan 08 22:41 3299 Jan 12 05:00 3299 Jan 15 17:53 3299 Jan 17 13:49 3299 Jan 17 11:17	29°M39'16 0°ズ 4°ズ42'56 19°ズ51'30 0°云 0°≈ 0°≈20'42 5°≈13'05 5°≈10'22 3°≈43'06 30°Rる 27°♂32'56 27°♂32'56	1.44190 AU 20°44'33 2°36'27 2°35'43	minimum elong max. Earth dist. desc. node evening rise evening max el retrograde asc. node evening set inferior conj minimum elong	3299 Oct 28 21:33 3299 Nov 05 03:42 3299 Nov 06 07:37 3299 Nov 11 19:59 3299 Nov 12 07:08 3299 Dec 02 13:48 3299 Dec 13 19:44 3299 Dec 23 02:49 3299 Dec 26 19:43 3299 Dec 27 12:42 3300 Jan 01 21:03 3300 Jan 01 18:47	6°M19'15 18°M32'32 20°M26'37 29°M16'09 0°ズ 0°℧ 13°℧53'17 19°℧25'16 18°℧11'10 17°℧39'32 11°℧20'29 11°℧28'21	0°56′50 1.42720 AU 21°57′54 1°56′41 1°55′53
desc. node max. Earth dist. evening rise evening max el retrograde asc. node evening set inferior conj minimum elong min. Earth dist.	3298 Nov 19 10:37 3298 Nov 19 15:44 3298 Nov 22 14:04 3298 Dec 02 05:58 3298 Dec 08 21:40 3298 Dec 30 15:57 3298 Dec 30 23:56 3299 Jan 08 05:53 3299 Jan 08 22:41 3299 Jan 12 05:00 3299 Jan 15 17:53 3299 Jan 17 13:49 3299 Jan 17 11:17 3299 Jan 18 02:34	29°M39'16 0°ズ 4°ズ42'56 19°ズ51'30 0°云 0°≈ 0°≈20'42 5°≈13'05 5°≈10'22 3°≈43'06 30°Rउ 27°♂32'56 27°♂32'56	1.44190 AU 20°44'33 2°36'27	minimum elong max. Earth dist. desc. node evening rise evening max el retrograde asc. node evening set inferior conj minimum elong min. Earth dist.	3299 Oct 28 21:33 3299 Nov 05 03:42 3299 Nov 06 07:37 3299 Nov 11 19:59 3299 Nov 12 07:08 3299 Dec 02 13:48 3299 Dec 13 19:44 3299 Dec 23 02:49 3299 Dec 26 19:43 3299 Dec 27 12:42 3300 Jan 01 21:03 3300 Jan 01 18:47 3300 Jan 01 22:02	6°M19'15 18°M32'32 20°M26'37 29°M16'09 0°ズ 0°℧ 13°℧53'17 19°℧25'16 18°℧11'10 17°℧39'32 11°℧20'29 11°℧28'21 11°℧17'03	0°56'50 1.42720 AU 21°57'54 1°56'41
desc. node max. Earth dist. evening rise evening max el retrograde asc. node evening set inferior conj minimum elong min. Earth dist. morning rise	3298 Nov 19 10:37 3298 Nov 19 15:44 3298 Nov 22 14:04 3298 Dec 02 05:58 3298 Dec 08 21:40 3298 Dec 30 15:57 3298 Dec 30 23:56 3299 Jan 08 05:53 3299 Jan 08 05:53 3299 Jan 12 05:00 3299 Jan 15 17:53 3299 Jan 17 13:49 3299 Jan 17 11:17 3299 Jan 18 02:34 3299 Jan 22 17:24	29°M39'16 0°ズ 4°ズ42'56 19°ズ51'30 0°云 0°≈20'42 5°≈13'05 5°≈10'22 3°≈43'06 30°Rउ 27°♂32'56 27°♂341'37 26°♂49'15 21°♂19'46	1.44190 AU 20°44'33 2°36'27 2°35'43	minimum elong max. Earth dist. desc. node evening rise evening max el retrograde asc. node evening set inferior conj minimum elong min. Earth dist. morning rise	3299 Oct 28 21:33 3299 Nov 05 03:42 3299 Nov 06 07:37 3299 Nov 11 19:59 3299 Nov 12 07:08 3299 Dec 02 13:48 3299 Dec 13 19:44 3299 Dec 23 02:49 3299 Dec 26 19:43 3299 Dec 27 12:42 3300 Jan 01 21:03 3300 Jan 01 18:47 3300 Jan 01 22:02 3300 Jan 07 00:43	6°M19'15 18°M32'32 20°M26'37 29°M16'09 0°ズ 0°G 13°G53'17 19°G25'16 18°G11'10 17°G39'32 11°G20'29 11°G28'21 11°G17'03 5°G09'07	0°56′50 1.42720 AU 21°57′54 1°56′41 1°55′53
desc. node max. Earth dist. evening rise evening max el retrograde asc. node evening set inferior conj minimum elong min. Earth dist. morning rise direct	3298 Nov 19 10:37 3298 Nov 19 15:44 3298 Nov 22 14:04 3298 Dec 02 05:58 3298 Dec 08 21:40 3298 Dec 30 15:57 3298 Dec 30 23:56 3299 Jan 08 05:53 3299 Jan 08 02:41 3299 Jan 12 05:00 3299 Jan 15 17:53 3299 Jan 17 13:49 3299 Jan 17 11:17 3299 Jan 18 02:34 3299 Jan 22 17:24 3299 Jan 28 04:56	29°M39'16 0°ズ 4°ズ42'56 19°ズ51'30 0°云 0°≈ 0°≈20'42 5°≈13'05 5°≈10'22 3°≈43'06 30°Rउ 27°♂32'56 27°♂31'37 26°♂49'15 21°♂19'46 18°♂54'28	1.44190 AU 20°44'33 2°36'27 2°35'43 0.67517 AU	minimum elong max. Earth dist. desc. node evening rise evening max el retrograde asc. node evening set inferior conj minimum elong min. Earth dist. morning rise direct	3299 Oct 28 21:33 3299 Nov 05 03:42 3299 Nov 06 07:37 3299 Nov 11 19:59 3299 Nov 12 07:08 3299 Dec 02 13:48 3299 Dec 13 19:44 3299 Dec 23 02:49 3299 Dec 26 19:43 3299 Dec 27 12:42 3300 Jan 01 21:03 3300 Jan 01 18:47 3300 Jan 01 22:02 3300 Jan 07 00:43 3300 Jan 11 21:16	6°M19'15 18°M32'32 20°M26'37 29°M16'09 0°ズ 0°G 13°G53'17 19°G25'16 18°G11'10 17°G39'32 11°G20'29 11°G28'21 11°G17'03 5°G09'07 3°G05'32	0°56'50 1.42720 AU 21°57'54 1°56'41 1°55'53 0.67893 AU
desc. node max. Earth dist. evening rise evening max el retrograde asc. node evening set inferior conj minimum elong min. Earth dist. morning rise	3298 Nov 19 10:37 3298 Nov 19 15:44 3298 Nov 22 14:04 3298 Dec 02 05:58 3298 Dec 08 21:40 3298 Dec 30 15:57 3298 Dec 30 23:56 3299 Jan 08 05:53 3299 Jan 08 22:41 3299 Jan 12 05:00 3299 Jan 15 17:53 3299 Jan 17 13:49 3299 Jan 17 11:17 3299 Jan 18 02:34 3299 Jan 22 17:24 3299 Jan 28 04:56 3299 Feb 08 05:22	29°M39'16 0°ズ 4°ズ42'56 19°ズ51'30 0°云 0°≈ 0°≈20'42 5°≈13'05 5°≈10'22 3°≈43'06 30°Rउ 27°♂32'56 27°♂41'37 26°♂49'15 21°♂19'46 18°♂54'28 25°♂28'43	1.44190 AU 20°44'33 2°36'27 2°35'43 0.67517 AU	minimum elong max. Earth dist. desc. node evening rise evening max el retrograde asc. node evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el	3299 Oct 28 21:33 3299 Nov 05 03:42 3299 Nov 06 07:37 3299 Nov 11 19:59 3299 Nov 12 07:08 3299 Dec 02 13:48 3299 Dec 13 19:44 3299 Dec 23 02:49 3299 Dec 26 19:43 3299 Dec 27 12:42 3300 Jan 01 21:03 3300 Jan 01 22:02 3300 Jan 01 22:02 3300 Jan 07 00:43 3300 Jan 11 21:16 3300 Jan 21 15:35	6°M19'15 18°M32'32 20°M26'37 29°M16'09 0°ズ 0°G 13°G53'17 19°G25'16 18°G11'10 17°G39'32 11°G20'29 11°G28'21 11°G17'03 5°G09'07 3°G05'32 8°G51'52	0°56'50 1.42720 AU 21°57'54 1°56'41 1°55'53 0.67893 AU
desc. node max. Earth dist. evening rise evening max el retrograde asc. node evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el	3298 Nov 19 10:37 3298 Nov 19 15:44 3298 Nov 22 14:04 3298 Dec 02 05:58 3298 Dec 08 21:40 3298 Dec 30 15:57 3298 Dec 30 23:56 3299 Jan 08 05:53 3299 Jan 08 02:41 3299 Jan 12 05:00 3299 Jan 15 17:53 3299 Jan 17 13:49 3299 Jan 17 13:49 3299 Jan 17 11:17 3299 Jan 18 02:34 3299 Jan 22 17:24 3299 Jan 28 04:56 3299 Feb 08 05:22 3299 Feb 12 08:12	29°M39'16 0°ダ 4°ダ42'56 19°ダ51'30 0°℧ 0°≈ 0°≈20'42 5°≈13'05 5°≈10'22 3°≈43'06 30°R℧ 27°℧32'56 27°℧41'37 26°℧49'15 21°℧19'46 18°℧54'28 25°℧28'43 0°≈	1.44190 AU 20°44'33 2°36'27 2°35'43 0.67517 AU	minimum elong max. Earth dist. desc. node evening rise evening max el retrograde asc. node evening set inferior conj minimum elong min. Earth dist. morning rise direct	3299 Oct 28 21:33 3299 Nov 05 03:42 3299 Nov 06 07:37 3299 Nov 11 19:59 3299 Nov 12 07:08 3299 Dec 02 13:48 3299 Dec 13 19:44 3299 Dec 23 02:49 3299 Dec 26 19:43 3299 Dec 27 12:42 3300 Jan 01 21:03 3300 Jan 01 22:02 3300 Jan 01 22:02 3300 Jan 07 00:43 3300 Jan 11 21:16 3300 Jan 21 15:35 3300 Feb 02 06:53	6°M19'15 18°M32'32 20°M26'37 29°M16'09 0°ズ 0°उ 13°उ53'17 19°उ25'16 18°उ11'10 17°उ39'32 11°उ28'21 11°उ17'03 5°उ09'07 3°उ05'32 8°उ51'52 23°उ08'02	0°56'50 1.42720 AU 21°57'54 1°56'41 1°55'53 0.67893 AU
desc. node max. Earth dist. evening rise evening max el retrograde asc. node evening set inferior conj minimum elong min. Earth dist. morning rise direct	3298 Nov 19 10:37 3298 Nov 19 15:44 3298 Nov 22 14:04 3298 Dec 02 05:58 3298 Dec 08 21:40 3298 Dec 30 15:57 3298 Dec 30 23:56 3299 Jan 08 05:53 3299 Jan 08 22:41 3299 Jan 12 05:00 3299 Jan 15 17:53 3299 Jan 17 11:17 3299 Jan 17 11:17 3299 Jan 18 02:34 3299 Jan 22 17:24 3299 Jan 28 04:56 3299 Feb 08 05:22 3299 Feb 12 08:12 3299 Feb 15 09:52	29°M39'16 0°ズ 4°ズ42'56 19°ズ51'30 0°云 0°≈ 0°≈20'42 5°≈13'05 5°≈10'22 3°≈43'06 30°Rउ 27°♂32'56 27°♂41'37 26°♂49'15 21°♂19'46 18°♂54'28 25°♂28'43 0°≈ 3°≈45'01	1.44190 AU 20°44'33 2°36'27 2°35'43 0.67517 AU	minimum elong max. Earth dist. desc. node 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	3299 Oct 28 21:33 3299 Nov 05 03:42 3299 Nov 06 07:37 3299 Nov 11 19:59 3299 Nov 12 07:08 3299 Dec 02 13:48 3299 Dec 13 19:44 3299 Dec 23 02:49 3299 Dec 26 19:43 3299 Dec 27 12:42 3300 Jan 01 21:03 3300 Jan 01 18:47 3300 Jan 01 22:02 3300 Jan 01 00:43 3300 Jan 11 21:16 3300 Jan 21 15:35 3300 Feb 02 06:53 3300 Feb 07 03:47	6°M19'15 18°M32'32 20°M26'37 29°M16'09 0°ズ 0°उ 13°उ53'17 19°उ25'16 18°उ11'10 17°उ39'32 11°उ28'21 11°उ17'03 5°उ09'07 3°उ05'32 8°उ51'52 23°उ08'02 0°≈	0°56'50 1.42720 AU 21°57'54 1°56'41 1°55'53 0.67893 AU
max. Earth dist. 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	3298 Nov 19 10:37 3298 Nov 19 15:44 3298 Nov 22 14:04 3298 Dec 02 05:58 3298 Dec 08 21:40 3298 Dec 30 15:57 3298 Dec 30 23:56 3299 Jan 08 05:53 3299 Jan 08 22:41 3299 Jan 12 05:00 3299 Jan 15 17:53 3299 Jan 17 13:49 3299 Jan 17 11:17 3299 Jan 18 02:34 3299 Jan 18 02:34 3299 Jan 22 17:24 3299 Jan 28 04:56 3299 Feb 08 05:22 3299 Feb 12 08:12 3299 Feb 15 09:52 3299 Mar 05 17:04	29°M39'16 0°ズ 4°ズ42'56 19°ズ51'30 0°云 0°≈ 0°≈20'42 5°≈13'05 5°≈10'22 3°≈43'06 30°Rउ 27°♂32'56 27°♂41'37 26°♂49'15 21°♂19'46 18°♂54'28 25°♂28'43 0°≈ 3°≈45'01 0°沃	1.44190 AU 20°44'33 2°36'27 2°35'43 0.67517 AU	minimum elong max. Earth dist. desc. node evening rise evening max el retrograde asc. node evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el	3299 Oct 28 21:33 3299 Nov 05 03:42 3299 Nov 06 07:37 3299 Nov 11 19:59 3299 Nov 12 07:08 3299 Dec 02 13:48 3299 Dec 13 19:44 3299 Dec 23 02:49 3299 Dec 26 19:43 3299 Dec 27 12:42 3300 Jan 01 21:03 3300 Jan 01 18:47 3300 Jan 01 22:02 3300 Jan 07 00:43 3300 Jan 11 21:16 3300 Jan 21 15:35 3300 Feb 02 06:53 3300 Feb 07 03:47 3300 Feb 24 16:56	6°M19'15 18°M32'32 20°M26'37 29°M16'09 0°ズ 0°उ 13°उ53'17 19°उ25'16 18°उ11'10 17°उ39'32 11°उ28'21 11°उ17'03 5°उ09'07 3°उ05'32 8°उ51'52 23°उ08'02 0°≈ 27°≈04'11	0°56'50 1.42720 AU 21°57'54 1°56'41 1°55'53 0.67893 AU
desc. node max. Earth dist. 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	3298 Nov 19 10:37 3298 Nov 19 15:44 3298 Nov 22 14:04 3298 Dec 02 05:58 3298 Dec 08 21:40 3298 Dec 30 15:57 3298 Dec 30 23:56 3299 Jan 08 05:53 3299 Jan 08 22:41 3299 Jan 12 05:00 3299 Jan 15 17:53 3299 Jan 17 13:49 3299 Jan 17 11:17 3299 Jan 18 02:34 3299 Jan 18 02:34 3299 Jan 22 17:24 3299 Jan 28 04:56 3299 Feb 08 05:22 3299 Feb 12 08:12 3299 Feb 15 09:52 3299 Mar 05 17:04 3299 Mar 15 23:12	29°M39'16 0°ズ 4°ズ42'56 19°ズ51'30 0°云 0°≈ 0°≈20'42 5°≈13'05 5°≈10'22 3°≈43'06 30°Rउ 27°♂32'56 27°♂41'37 26°♂49'15 21°♂19'46 18°♂54'28 25°♂28'43 0°≈ 3°≈45'01 0°升 16°升55'11	1.44190 AU 20°44'33 2°36'27 2°35'43 0.67517 AU 24°07'55	minimum elong max. Earth dist. desc. node 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	3299 Oct 28 21:33 3299 Nov 05 03:42 3299 Nov 06 07:37 3299 Nov 11 19:59 3299 Nov 12 07:08 3299 Dec 02 13:48 3299 Dec 13 19:44 3299 Dec 23 02:49 3299 Dec 26 19:43 3299 Dec 27 12:42 3300 Jan 01 21:03 3300 Jan 01 18:47 3300 Jan 01 22:02 3300 Jan 07 00:43 3300 Jan 11 21:16 3300 Jan 21 15:35 3300 Feb 02 06:53 3300 Feb 07 03:47 3300 Feb 24 16:56 3300 Feb 26 11:28	6°M19'15 18°M32'32 20°M26'37 29°M16'09 0°ズ 0°G 13°G53'17 19°G25'16 18°G11'10 17°G39'32 11°G20'29 11°G28'21 11°G17'03 5°G09'07 3°G05'32 8°G51'52 23°G08'02 0°≈ 27°≈04'11 0°光	0°56'50 1.42720 AU 21°57'54 1°56'41 1°55'53 0.67893 AU 22°39'05
max. Earth dist. 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	3298 Nov 19 10:37 3298 Nov 19 15:44 3298 Nov 22 14:04 3298 Dec 02 05:58 3298 Dec 08 21:40 3298 Dec 30 15:57 3298 Dec 30 23:56 3299 Jan 08 05:53 3299 Jan 08 22:41 3299 Jan 12 05:00 3299 Jan 15 17:53 3299 Jan 17 13:49 3299 Jan 17 11:17 3299 Jan 18 02:34 3299 Jan 18 02:34 3299 Jan 22 17:24 3299 Jan 28 04:56 3299 Feb 08 05:22 3299 Feb 12 08:12 3299 Feb 15 09:52 3299 Mar 05 17:04 3299 Mar 15 23:12 3299 Mar 19 16:55	29°M39'16 0°ズ 4°ズ42'56 19°ズ51'30 0°云 0°≈ 0°≈20'42 5°≈13'05 5°≈10'22 3°≈43'06 30°Rउ 27°♂32'56 27°♂41'37 26°♂49'15 21°♂19'46 18°♂54'28 25°♂28'43 0°≈ 3°≈45'01 0°升 16°升55'11 23°升30'05	1.44190 AU 20°44'33 2°36'27 2°35'43 0.67517 AU	minimum elong max. Earth dist. desc. node 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	3299 Oct 28 21:33 3299 Nov 05 03:42 3299 Nov 06 07:37 3299 Nov 11 19:59 3299 Nov 12 07:08 3299 Dec 02 13:48 3299 Dec 13 19:44 3299 Dec 23 02:49 3299 Dec 26 19:43 3299 Dec 27 12:42 3300 Jan 01 21:03 3300 Jan 01 18:47 3300 Jan 01 22:02 3300 Jan 07 00:43 3300 Jan 11 21:16 3300 Jan 21 15:35 3300 Feb 02 06:53 3300 Feb 07 03:47 3300 Feb 24 16:56	6°M19'15 18°M32'32 20°M26'37 29°M16'09 0°ズ 0°उ 13°उ53'17 19°उ25'16 18°उ11'10 17°उ39'32 11°उ28'21 11°उ17'03 5°उ09'07 3°उ05'32 8°उ51'52 23°उ08'02 0°≈ 27°≈04'11	0°56'50 1.42720 AU 21°57'54 1°56'41 1°55'53 0.67893 AU
desc. node max. Earth dist. 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	3298 Nov 19 10:37 3298 Nov 19 15:44 3298 Nov 22 14:04 3298 Dec 02 05:58 3298 Dec 08 21:40 3298 Dec 30 15:57 3298 Dec 30 23:56 3299 Jan 08 05:53 3299 Jan 08 22:41 3299 Jan 12 05:00 3299 Jan 15 17:53 3299 Jan 17 13:49 3299 Jan 17 11:17 3299 Jan 18 02:34 3299 Jan 18 02:34 3299 Jan 22 17:24 3299 Jan 28 04:56 3299 Feb 08 05:22 3299 Feb 12 08:12 3299 Feb 15 09:52 3299 Mar 05 17:04 3299 Mar 15 23:12	29°M39'16 0°ズ 4°ズ42'56 19°ズ51'30 0°云 0°≈ 0°≈20'42 5°≈13'05 5°≈10'22 3°≈43'06 30°Rउ 27°♂32'56 27°♂41'37 26°♂49'15 21°♂19'46 18°♂54'28 25°♂28'43 0°≈ 3°≈45'01 0°升 16°升55'11	1.44190 AU 20°44'33 2°36'27 2°35'43 0.67517 AU 24°07'55	minimum elong max. Earth dist. desc. node 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	3299 Oct 28 21:33 3299 Nov 05 03:42 3299 Nov 06 07:37 3299 Nov 11 19:59 3299 Nov 12 07:08 3299 Dec 02 13:48 3299 Dec 13 19:44 3299 Dec 23 02:49 3299 Dec 26 19:43 3299 Dec 27 12:42 3300 Jan 01 21:03 3300 Jan 01 18:47 3300 Jan 01 22:02 3300 Jan 07 00:43 3300 Jan 11 21:16 3300 Jan 21 15:35 3300 Feb 02 06:53 3300 Feb 07 03:47 3300 Feb 24 16:56 3300 Feb 26 11:28	6°M19'15 18°M32'32 20°M26'37 29°M16'09 0°ズ 0°G 13°G53'17 19°G25'16 18°G11'10 17°G39'32 11°G20'29 11°G28'21 11°G17'03 5°G09'07 3°G05'32 8°G51'52 23°G08'02 0°≈ 27°≈04'11 0°光	0°56'50 1.42720 AU 21°57'54 1°56'41 1°55'53 0.67893 AU 22°39'05
desc. node max. Earth dist. 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	3298 Nov 19 10:37 3298 Nov 19 15:44 3298 Nov 22 14:04 3298 Dec 02 05:58 3298 Dec 08 21:40 3298 Dec 30 15:57 3298 Dec 30 23:56 3299 Jan 08 05:53 3299 Jan 08 22:41 3299 Jan 12 05:00 3299 Jan 15 17:53 3299 Jan 17 13:49 3299 Jan 17 11:17 3299 Jan 18 02:34 3299 Jan 18 02:34 3299 Jan 22 17:24 3299 Jan 28 04:56 3299 Feb 08 05:22 3299 Feb 12 08:12 3299 Feb 15 09:52 3299 Mar 05 17:04 3299 Mar 15 23:12 3299 Mar 19 16:55	29°M39'16 0°ズ 4°ズ42'56 19°ズ51'30 0°云 0°≈ 0°≈20'42 5°≈13'05 5°≈10'22 3°≈43'06 30°Rउ 27°♂32'56 27°♂32'56 27°♂41'37 26°♂49'15 21°♂19'46 18°♂54'28 25°♂28'43 0°≈ 3°≈45'01 0°沃 16°沃55'11 23°升30'05 0°℃	1.44190 AU 20°44'33 2°36'27 2°35'43 0.67517 AU 24°07'55	minimum elong max. Earth dist. desc. node 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	3299 Oct 28 21:33 3299 Nov 05 03:42 3299 Nov 06 07:37 3299 Nov 11 19:59 3299 Nov 12 07:08 3299 Dec 02 13:48 3299 Dec 13 19:44 3299 Dec 23 02:49 3299 Dec 26 19:43 3299 Dec 27 12:42 3300 Jan 01 21:03 3300 Jan 01 18:47 3300 Jan 01 22:02 3300 Jan 07 00:43 3300 Jan 11 21:16 3300 Jan 21 15:35 3300 Feb 02 06:53 3300 Feb 04 16:56 3300 Feb 24 16:56 3300 Feb 26 11:28 3300 Mar 09 07:27	6°M19'15 18°M32'32 20°M26'37 29°M16'09 0°ズ 0°G 13°G53'17 19°G25'16 18°G11'10 17°G39'32 11°G20'29 11°G28'21 11°G17'03 5°G09'07 3°G05'32 8°G51'52 23°G08'02 0°≈ 27°≈04'11 0°光	0°56'50 1.42720 AU 21°57'54 1°56'41 1°55'53 0.67893 AU 22°39'05
desc. node max. Earth dist. 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	3298 Nov 19 10:37 3298 Nov 19 15:44 3298 Nov 22 14:04 3298 Dec 02 05:58 3298 Dec 08 21:40 3298 Dec 30 15:57 3298 Dec 30 23:56 3299 Jan 08 05:53 3299 Jan 08 22:41 3299 Jan 12 05:00 3299 Jan 15 17:53 3299 Jan 17 13:49 3299 Jan 17 11:17 3299 Jan 18 02:34 3299 Jan 18 02:34 3299 Jan 22 17:24 3299 Jan 28 04:56 3299 Feb 08 05:22 3299 Feb 12 08:12 3299 Feb 15 09:52 3299 Mar 05 17:04 3299 Mar 15 23:12 3299 Mar 19 16:55	29°M39'16 0°ズ 4°ズ42'56 19°ズ51'30 0°云 0°≈ 0°≈20'42 5°≈13'05 5°≈10'22 3°≈43'06 30°Rउ 27°♂32'56 27°♂41'37 26°♂49'15 21°♂19'46 18°♂54'28 25°♂28'43 0°≈ 3°≈45'01 0°升 16°升55'11 23°升30'05	1.44190 AU 20°44'33 2°36'27 2°35'43 0.67517 AU 24°07'55	minimum elong max. Earth dist. desc. node 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.	3299 Oct 28 21:33 3299 Nov 05 03:42 3299 Nov 06 07:37 3299 Nov 11 19:59 3299 Nov 12 07:08 3299 Dec 02 13:48 3299 Dec 13 19:44 3299 Dec 23 02:49 3299 Dec 26 19:43 3299 Dec 27 12:42 3300 Jan 01 21:03 3300 Jan 01 18:47 3300 Jan 01 22:02 3300 Jan 07 00:43 3300 Jan 11 21:16 3300 Jan 21 15:35 3300 Feb 02 06:53 3300 Feb 07 03:47 3300 Feb 24 16:56 3300 Feb 26 11:28 3300 Mar 01 12:41	6°M19'15 18°M32'32 20°M26'37 29°M16'09 0°ズ 0°G 13°G53'17 19°G25'16 18°G11'10 17°G39'32 11°G20'29 11°G28'21 11°G17'03 5°G09'07 3°G05'32 8°G51'52 23°G08'02 0°≈ 27°≈04'11 0°H 5°H08'21	0°56′50 1.42720 AU 21°57′54 1°56′41 1°55′53 0.67893 AU 22°39′05
desc. node max. Earth dist. 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.	3298 Nov 19 10:37 3298 Nov 19 15:44 3298 Nov 22 14:04 3298 Dec 02 05:58 3298 Dec 08 21:40 3298 Dec 30 15:57 3298 Dec 30 23:56 3299 Jan 08 05:53 3299 Jan 08 05:53 3299 Jan 12 05:00 3299 Jan 15 17:53 3299 Jan 17 13:49 3299 Jan 17 11:17 3299 Jan 18 02:34 3299 Jan 18 02:34 3299 Jan 22 17:24 3299 Jan 28 04:56 3299 Feb 08 05:22 3299 Feb 12 08:12 3299 Feb 15 09:52 3299 Mar 05 17:04 3299 Mar 15 23:12 3299 Mar 19 16:55 3299 Mar 23 06:29	29°M39'16 0°ズ 4°ズ42'56 19°ズ51'30 0°云 0°≈ 0°≈20'42 5°≈13'05 5°≈10'22 3°≈43'06 30°Rउ 27°♂32'56 27°♂32'56 27°♂41'37 26°♂49'15 21°♂19'46 18°♂54'28 25°♂28'43 0°≈ 3°≈45'01 0°沃 16°沃55'11 23°升30'05 0°℃	1.44190 AU 20°44'33 2°36'27 2°35'43 0.67517 AU 24°07'55	minimum elong max. Earth dist. desc. node 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. superior conj	3299 Oct 28 21:33 3299 Nov 05 03:42 3299 Nov 06 07:37 3299 Nov 11 19:59 3299 Nov 12 07:08 3299 Dec 02 13:48 3299 Dec 13 19:44 3299 Dec 23 02:49 3299 Dec 26 19:43 3299 Dec 27 12:42 3300 Jan 01 21:03 3300 Jan 01 18:47 3300 Jan 01 22:02 3300 Jan 07 00:43 3300 Jan 11 21:16 3300 Jan 21 15:35 3300 Feb 02 06:53 3300 Feb 04 16:56 3300 Feb 24 16:56 3300 Feb 26 11:28 3300 Mar 09 07:27	6°M19'15 18°M32'32 20°M26'37 29°M16'09 0°ズ 0°G 13°G53'17 19°G25'16 18°G11'10 17°G39'32 11°G20'29 11°G28'21 11°G17'03 5°G09'07 3°G05'32 8°G51'52 23°G08'02 0°≈ 27°≈04'11 0°米 5°米08'21	0°56′50 1.42720 AU 21°57′54 1°56′41 1°55′53 0.67893 AU 22°39′05
desc. node max. Earth dist. 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.	3298 Nov 19 10:37 3298 Nov 19 15:44 3298 Nov 22 14:04 3298 Dec 02 05:58 3298 Dec 08 21:40 3298 Dec 30 15:57 3298 Dec 30 23:56 3299 Jan 08 05:53 3299 Jan 08 02:41 3299 Jan 12 05:00 3299 Jan 15 17:53 3299 Jan 17 13:49 3299 Jan 17 11:17 3299 Jan 18 02:34 3299 Jan 18 02:34 3299 Jan 22 17:24 3299 Jan 28 04:56 3299 Feb 08 05:22 3299 Feb 12 08:12 3299 Feb 15 09:52 3299 Mar 05 17:04 3299 Mar 15 23:12 3299 Mar 19 16:55 3299 Mar 23 06:29	29°M39'16 0°ズ 4°ズ42'56 19°ズ51'30 0°云 0°≈ 0°≈20'42 5°≈13'05 5°≈10'22 3°≈43'06 30°Rउ 27°♂32'56 27°♂34'37 26°♂49'15 21°♂19'46 18°♂54'28 25°♂28'43 0°≈ 3°≈45'01 0°ዢ 16°沃55'11 23°升30'05 0°℃	1.44190 AU 20°44'33 2°36'27 2°35'43 0.67517 AU 24°07'55	minimum elong max. Earth dist. desc. node 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. superior conj	3299 Oct 28 21:33 3299 Nov 05 03:42 3299 Nov 06 07:37 3299 Nov 11 19:59 3299 Nov 12 07:08 3299 Dec 02 13:48 3299 Dec 13 19:44 3299 Dec 23 02:49 3299 Dec 26 19:43 3299 Dec 27 12:42 3300 Jan 01 21:03 3300 Jan 01 18:47 3300 Jan 01 22:02 3300 Jan 07 00:43 3300 Jan 11 21:16 3300 Jan 21 15:35 3300 Feb 02 06:53 3300 Feb 02 06:53 3300 Feb 24 16:56 3300 Feb 26 11:28 3300 Mar 09 07:27 3300 Mar 09 07:27	6°M19'15 18°M32'32 20°M26'37 29°M16'09 0°ズ 0°G 13°G53'17 19°G25'16 18°G11'10 17°G39'32 11°G20'29 11°G28'21 11°G17'03 5°G09'07 3°G05'32 8°G51'52 23°G08'02 0°≈ 27°≈04'11 0°H 5°H08'21	0°56′50 1.42720 AU 21°57′54 1°56′41 1°55′53 0.67893 AU 22°39′05
desc. node max. Earth dist. 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.	3298 Nov 19 10:37 3298 Nov 19 15:44 3298 Nov 22 14:04 3298 Dec 02 05:58 3298 Dec 08 21:40 3298 Dec 30 15:57 3298 Dec 30 23:56 3299 Jan 08 05:53 3299 Jan 08 02:41 3299 Jan 12 05:00 3299 Jan 15 17:53 3299 Jan 17 13:49 3299 Jan 17 11:17 3299 Jan 18 02:34 3299 Jan 18 02:34 3299 Jan 22 17:24 3299 Jan 28 04:56 3299 Feb 08 05:22 3299 Feb 12 08:12 3299 Feb 15 09:52 3299 Mar 05 17:04 3299 Mar 15 23:12 3299 Mar 19 16:55 3299 Mar 23 06:29 3299 Mar 26 19:39 3299 Mar 27 00:12 3299 Apr 04 16:27	29°M39'16 0°ズ 4°ズ42'56 19°ズ51'30 0°云 0°≈ 0°≈20'42 5°≈13'05 5°≈10'22 3°≈43'06 30°Rउ 27°♂32'56 27°♂41'37 26°♂49'15 21°♂19'46 18°♂54'28 25°♂28'43 0°≈ 3°≈45'01 0°ዢ 16°Ҡ55'11 23°Ҡ30'05 0°℃	1.44190 AU 20°44'33 2°36'27 2°35'43 0.67517 AU 24°07'55	minimum elong max. Earth dist. desc. node 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. superior conj minimum elong	3299 Oct 28 21:33 3299 Nov 05 03:42 3299 Nov 06 07:37 3299 Nov 11 19:59 3299 Nov 12 07:08 3299 Dec 02 13:48 3299 Dec 13 19:44 3299 Dec 23 02:49 3299 Dec 26 19:43 3299 Dec 27 12:42 3300 Jan 01 21:03 3300 Jan 01 22:02 3300 Jan 01 22:02 3300 Jan 01 22:02 3300 Jan 11 21:16 3300 Jan 11 21:16 3300 Jan 21 15:35 3300 Feb 02 06:53 3300 Feb 07 03:47 3300 Feb 24 16:56 3300 Feb 26 11:28 3300 Mar 09 07:27 3300 Mar 09 07:27 3300 Mar 09 11:25 3300 Mar 15 08:23	6°M19'15 18°M32'32 20°M26'37 29°M16'09 0°ズ 0°G 13°G53'17 19°G25'16 18°G11'10 17°G39'32 11°G20'29 11°G28'21 11°G17'03 5°G09'07 3°G05'32 8°G51'52 23°G08'02 0°≈ 27°≈04'11 0°H 5°H08'21 18°H49'33 19°H07'34 0°Y	0°56′50 1.42720 AU 21°57′54 1°56′41 1°55′53 0.67893 AU 22°39′05
desc. node max. Earth dist. 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. superior conj minimum elong evening rise	3298 Nov 19 10:37 3298 Nov 19 15:44 3298 Nov 22 14:04 3298 Dec 02 05:58 3298 Dec 08 21:40 3298 Dec 30 15:57 3298 Dec 30 23:56 3299 Jan 08 05:53 3299 Jan 08 02:41 3299 Jan 12 05:00 3299 Jan 15 17:53 3299 Jan 17 13:49 3299 Jan 17 11:17 3299 Jan 18 02:34 3299 Jan 18 02:34 3299 Jan 22 17:24 3299 Jan 28 04:56 3299 Feb 08 05:22 3299 Feb 12 08:12 3299 Feb 15 09:52 3299 Mar 05 17:04 3299 Mar 15 23:12 3299 Mar 17 16:55 3299 Mar 23 06:29 3299 Mar 26 19:39 3299 Mar 27 00:12 3299 Apr 04 16:27 3299 Apr 06 22:00	29°M39'16 0°ズ 4°ズ42'56 19°ズ51'30 0°云 0°≈ 0°≈20'42 5°≈13'05 5°≈10'22 3°≈43'06 30°Rउ 27°З32'56 27°З41'37 26°З49'15 21°З19'46 18°З54'28 25°З28'43 0°≈ 3°≈45'01 0°Ж 16°Ж55'11 23°Ж30'05 0°Υ 6°Ү40'35 7°Ŷ02'20 24°Ŷ00'50 28°Ŷ22'41	1.44190 AU 20°44'33 2°36'27 2°35'43 0.67517 AU 24°07'55	minimum elong max. Earth dist. desc. node 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. superior conj minimum elong	3299 Nov 05 03:42 3299 Nov 05 03:42 3299 Nov 06 07:37 3299 Nov 11 19:59 3299 Nov 12 07:08 3299 Dec 02 13:48 3299 Dec 13 19:44 3299 Dec 23 02:49 3299 Dec 26 19:43 3299 Dec 27 12:42 3300 Jan 01 21:03 3300 Jan 01 22:02 3300 Jan 01 22:02 3300 Jan 01 22:02 3300 Jan 11 21:16 3300 Jan 11 21:16 3300 Jan 21 15:35 3300 Feb 02 06:53 3300 Feb 07 03:47 3300 Feb 07 03:47 3300 Feb 24 16:56 3300 Feb 26 11:28 3300 Mar 09 07:27 3300 Mar 09 07:27 3300 Mar 15 08:23 3300 Mar 19 05:48 3300 Mar 24 19:01	6°M19'15 18°M32'32 20°M26'37 29°M16'09 0°ズ 0°उ 13°उ53'17 19°उ25'16 18°उ11'10 17°उ39'32 11°उ20'29 11°उ28'21 11°उ17'03 5°उ09'07 3°उ05'32 8°उ51'52 23°उ08'02 0°≈ 27°≈04'11 0° Ж 5° Ж08'21 18° Ж49'33 19° Ж07'34 0° Υ 7° Υ21'45 17° Ү41'57	0°56'50 1.42720 AU 21°57'54 1°56'41 1°55'53 0.67893 AU 22°39'05
desc. node max. Earth dist. 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. superior conj minimum elong evening rise asc. node	3298 Nov 19 10:37 3298 Nov 19 15:44 3298 Nov 22 14:04 3298 Dec 02 05:58 3298 Dec 08 21:40 3298 Dec 30 15:57 3298 Dec 30 23:56 3299 Jan 08 05:53 3299 Jan 08 02:41 3299 Jan 12 05:00 3299 Jan 15 17:53 3299 Jan 17 11:17 3299 Jan 17 11:17 3299 Jan 18 02:34 3299 Jan 17 11:17 3299 Jan 22 17:24 3299 Jan 22 17:24 3299 Jan 28 04:56 3299 Feb 08 05:22 3299 Feb 12 08:12 3299 Feb 15 09:52 3299 Feb 15 09:52 3299 Mar 05 17:04 3299 Mar 15 23:12 3299 Mar 19 16:55 3299 Mar 23 06:29 3299 Mar 26 19:39 3299 Mar 27 00:12 3299 Apr 04 16:27 3299 Apr 06 22:00 3299 Apr 07 18:10	29°M39'16 0°ズ 4°ズ42'56 19°ズ51'30 0°云 0°≈ 0°≈20'42 5°≈13'05 5°≈10'22 3°≈43'06 30°Rउ 27°332'56 27°341'37 26°349'15 21°319'46 18°354'28 25°328'43 0°≈ 3°≈45'01 0°Ж 16°Ж55'11 23°Ж30'05 0°Υ 6°Ч40'35 7°Υ02'20 24°Υ00'50 28°Υ22'41 0°엉	1.44190 AU 20°44'33 2°36'27 2°35'43 0.67517 AU 24°07'55 1.38109 AU -1°36'40 1°36'07	minimum elong max. Earth dist. desc. node 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. superior conj minimum elong evening rise asc. node	3299 Oct 28 21:33 3299 Nov 05 03:42 3299 Nov 06 07:37 3299 Nov 11 19:59 3299 Nov 12 07:08 3299 Dec 02 13:48 3299 Dec 13 19:44 3299 Dec 23 02:49 3299 Dec 26 19:43 3299 Dec 27 12:42 3300 Jan 01 21:03 3300 Jan 01 18:47 3300 Jan 01 22:02 3300 Jan 01 22:02 3300 Jan 11 21:16 3300 Jan 11 21:16 3300 Jan 21 15:35 3300 Feb 02 06:53 3300 Feb 02 06:53 3300 Feb 04 16:56 3300 Feb 24 16:56 3300 Feb 26 11:28 3300 Mar 09 07:27 3300 Mar 09 07:27 3300 Mar 15 08:23 3300 Mar 19 05:48 3300 Mar 24 19:01 3300 Apr 01 12:38	6°M19'15 18°M32'32 20°M26'37 29°M16'09 0°ズ 0°उ 13°उ53'17 19°उ25'16 18°उ11'10 17°उ39'32 11°उ28'21 11°उ17'03 5°उ09'07 3°उ05'32 8°उ51'52 23°उ08'02 0°≈ 27°≈04'11 0°Ж 5°Ж08'21 18°Ж49'33 19°Ж07'34 0°Υ 7°Υ21'45 17°Υ41'57 0°8	0°56'50 1.42720 AU 21°57'54 1°56'41 1°55'53 0.67893 AU 22°39'05 1.40280 AU -1°56'41 1°56'26
desc. node max. Earth dist. 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. superior conj minimum elong evening rise	3298 Nov 19 10:37 3298 Nov 19 15:44 3298 Nov 22 14:04 3298 Dec 02 05:58 3298 Dec 08 21:40 3298 Dec 30 15:57 3298 Dec 30 23:56 3299 Jan 08 05:53 3299 Jan 08 02:41 3299 Jan 12 05:00 3299 Jan 15 17:53 3299 Jan 17 13:49 3299 Jan 17 11:17 3299 Jan 18 02:34 3299 Jan 18 02:34 3299 Jan 22 17:24 3299 Jan 28 04:56 3299 Feb 08 05:22 3299 Feb 12 08:12 3299 Feb 15 09:52 3299 Mar 05 17:04 3299 Mar 15 23:12 3299 Mar 17 16:55 3299 Mar 23 06:29 3299 Mar 26 19:39 3299 Mar 27 00:12 3299 Apr 04 16:27 3299 Apr 06 22:00	29°M39'16 0°ズ 4°ズ42'56 19°ズ51'30 0°云 0°≈ 0°≈20'42 5°≈13'05 5°≈10'22 3°≈43'06 30°Rउ 27°З32'56 27°З41'37 26°З49'15 21°З19'46 18°З54'28 25°З28'43 0°≈ 3°≈45'01 0°Ж 16°Ж55'11 23°Ж30'05 0°Υ 6°Ү40'35 7°Ŷ02'20 24°Ŷ00'50 28°Ŷ22'41	1.44190 AU 20°44'33 2°36'27 2°35'43 0.67517 AU 24°07'55	minimum elong max. Earth dist. desc. node 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. superior conj minimum elong	3299 Nov 05 03:42 3299 Nov 05 03:42 3299 Nov 06 07:37 3299 Nov 11 19:59 3299 Nov 12 07:08 3299 Dec 02 13:48 3299 Dec 13 19:44 3299 Dec 23 02:49 3299 Dec 26 19:43 3299 Dec 27 12:42 3300 Jan 01 21:03 3300 Jan 01 22:02 3300 Jan 01 22:02 3300 Jan 01 22:02 3300 Jan 11 21:16 3300 Jan 11 21:16 3300 Jan 21 15:35 3300 Feb 02 06:53 3300 Feb 07 03:47 3300 Feb 07 03:47 3300 Feb 24 16:56 3300 Feb 26 11:28 3300 Mar 09 07:27 3300 Mar 09 07:27 3300 Mar 15 08:23 3300 Mar 19 05:48 3300 Mar 24 19:01	6°M19'15 18°M32'32 20°M26'37 29°M16'09 0°ズ 0°उ 13°उ53'17 19°उ25'16 18°उ11'10 17°उ39'32 11°उ20'29 11°उ28'21 11°उ17'03 5°उ09'07 3°उ05'32 8°उ51'52 23°उ08'02 0°≈ 27°≈04'11 0° Ж 5° Ж08'21 18° Ж49'33 19° Ж07'34 0° Υ 7° Υ21'45 17° Ү41'57	0°56'50 1.42720 AU 21°57'54 1°56'41 1°55'53 0.67893 AU 22°39'05 1.40280 AU -1°56'41 1°56'26

evening set	2200 4 14 04 52	60 0 25140		. 1	2201 M 25 12 12	19° Ƴ 40'06	
•	3300 Apr 14 04:53	6° 8 35'49		retrograde	3301 Mar 25 13:13		
inferior conj	3300 Apr 21 13:02	2° 8 01'17		evening set	3301 Mar 28 04:36	19° Y 08'35	
minimum elong	3300 Apr 21 16:48	1° 8 53'32	2°30'18	inferior conj	3301 Apr 03 20:32	14° Y 13'23	
	3300 Apr 24 00:03	30° ŖƳ		minimum elong	3301 Apr 03 23:08	14° Ƴ 07'14	3°16'54
min. Earth dist.	3300 Apr 24 23:41	29° Y 13′12	0.58661 AU	min. Earth dist.	3301 Apr 07 02:12	11° Y 10'24	0.60829 AU
morning rise	3300 Apr 29 01:46	26° Ƴ 30′12		morning rise	3301 Apr 10 15:38	8° Ƴ 21'41	
desc. node	3300 May 01 06:05	25° Y '32'53		direct	3301 Apr 17 08:43	6° Ƴ 08'43	
direct	3300 May 05 04:13	24° Y ′52'07		desc. node	3301 Apr 18 03:06	6° Y 10′23	
	3300 May 16 16:32	0°8		morning max el	3301 May 01 14:47	14° Υ 03'37	27°44'15
morning max el	3300 May 19 13:38	2° 8 36'15	27002147	morning max cr	3301 May 14 10:01	0°8	27 1113
morning max er	3300 Jun 08 08:29	2 O 30 13 0° Ⅱ	27 0247		•	0°II	
					3301 May 31 17:33		
morning set	3300 Jun 18 20:14	20° Ⅱ 13'58		morning set	3301 Jun 03 02:00	4° ∏ 46'38	
asc. node	3300 Jun 20 18:17	24° Ⅱ 18′10		asc. node	3301 Jun 07 15:19	14° Ⅱ 25'22	
	3300 Jun 23 09:21	0 \circ		max. Earth dist.	3301 Jun 09 04:37	17° ∏ 48′08	1.32184 AU
superior conj	3300 Jun 25 21:35	5° © 31'16	0°51'47	superior conj	3301 Jun 10 08:41	20° Ⅱ 21'48	0°28'21
minimum elong	3300 Jun 25 19:34	5° 5 20'09	0°51'23	minimum elong	3301 Jun 10 07:26	20° Ⅱ 14'57	0°28'04
max. Earth dist.	3300 Jun 25 17:34	5° © 09'09	1.32086 AU		3301 Jun 14 18:12	0 \circ \odot	
evening rise	3300 Jul 02 18:07	20° © 25'39		evening rise	3301 Jun 17 04:58	5° © 16'09	
	3300 Jul 07 10:42	$0^{\circ}\Omega$		-	3301 Jun 30 06:25	$0^{\circ}\Omega$	
	3300 Jul 26 02:33	0° m)		evening max el	3301 Jul 13 20:26	17° Ω 40'20	25°12'12
desc. node	3300 Jul 28 05:20	2° m/30'33		desc. node	3301 Jul 15 02:22	18°Ω49'17	
evening max el	3300 Aug 01 02:29	6° Mp 34'03	26°27'29	retrograde	3301 Jul 27 19:59	24°Ω45'47	
•	-		20 27 29	-			
retrograde	3300 Aug 15 01:49	13° m 45'06		evening set	3301 Aug 02 10:20	23° Ω 33'39	0.55654.433
evening set	3300 Aug 21 17:25	11° m 54'37		min. Earth dist.	3301 Aug 07 08:13	20° Ω 50'30	0.57654 AU
min. Earth dist.	3300 Aug 25 15:52	9° m , 19'10	0.59666 AU	inferior conj	3301 Aug 10 09:28	18° Ω 46′01	
inferior conj	3300 Aug 28 22:44	6° Mp 44'44	-4°48'34	minimum elong	3301 Aug 10 09:40	18° Ω 45'40	5°06'32
minimum elong	3300 Aug 29 03:07	6°₩36′06	4°47'56	morning rise	3301 Aug 18 11:26	14° Ω 32'53	
morning rise	3300 Sep 05 14:57	2° Mp 09'22		direct	3301 Aug 21 00:39	14° Ω 13'32	
direct	3300 Sep 08 00:41	1° Mp 48'40		morning max el	3301 Aug 29 19:45	18° Ω 22'15	19°01'34
morning max el	3300 Sep 15 17:08	5° m 32'34	18°17'50	asc. node	3301 Sep 03 14:33	24° Ω 00′36	
asc. node	3300 Sep 16 17:31	6° Mg 34'41			3301 Sep 07 11:06	0° m/	
	3300 Oct 01 04:16	0∘ <u>v</u>		morning set	3301 Sep 15 13:13	15° Mp 07'00	
morning set	3300 Oct 01 15:18	0° £ 52'26			3301 Sep 23 02:40	0∘ ⊽	
morning sec	3300 000 01 13.10	0 —32 20			3301 Sep 23 02.10	٠ –	
superior conj	3300 Oct 10 21:56	18° ≏ 17'52	1°23'27	superior conj	3301 Sep 23 21:30	1° £ 30'48	1°38'39
minimum elong	3300 Oct 10 21:30 3300 Oct 11 01:42		1°23'04	minimum elong	3301 Sep 23 23:40	1° ⊆ 3040	1°38'31
minimum clong		0°M	1 23 04	•	•	1 = 41 11 14° £ 07'14	
To all the	3300 Oct 17 12:10		1 40021 411	max. Earth dist.	3301 Sep 30 16:03 3301 Oct 04 12:17		1.38765 AU
max. Earth dist.			1.40831 AU	evening rise	3301 OCL 04 12:17	20° ≏ 53'35	
	3300 Oct 18 11:35			•		00 W	
evening rise	3300 Oct 23 04:17	9°M32'01			3301 Oct 09 22:31	0°M	
evening rise desc. node	3300 Oct 23 04:17 3300 Oct 24 04:37	9°M32'01 11°M11'20		desc. node	3301 Oct 09 22:31 3301 Oct 11 01:39	1° M 49'56	
•	3300 Oct 23 04:17	9°M32'01 11°M11'20 0°⊀		desc. node	3301 Oct 09 22:31 3301 Oct 11 01:39 3301 Oct 30 09:22	1° M .49'56 0° ⊀	
•	3300 Oct 23 04:17 3300 Oct 24 04:37	9°M32'01 11°M11'20	23°17'14	desc. node	3301 Oct 09 22:31 3301 Oct 11 01:39	1° M 49'56	24°36'16
desc. node	3300 Oct 23 04:17 3300 Oct 24 04:37 3300 Nov 05 08:04	9°M32'01 11°M11'20 0°⊀	23°17'14		3301 Oct 09 22:31 3301 Oct 11 01:39 3301 Oct 30 09:22	1° M .49'56 0° ⊀	24°36'16
desc. node	3300 Oct 23 04:17 3300 Oct 24 04:37 3300 Nov 05 08:04 3300 Nov 26 11:02	9°M32'01 11°M11'20 0°⊀ 27°⊀28'09	23°17'14	evening max el	3301 Oct 09 22:31 3301 Oct 11 01:39 3301 Oct 30 09:22 3301 Nov 08 23:58	1° M 49'56 0° √ 11° √ 07'28	24°36'16
desc. node evening max el	3300 Oct 23 04:17 3300 Oct 24 04:37 3300 Nov 05 08:04 3300 Nov 26 11:02 3300 Nov 29 04:44	9°M32'01 11°M11'20 0°ダ 27°ダ28'09 0°G	23°17'14	evening max el retrograde	3301 Oct 09 22:31 3301 Oct 11 01:39 3301 Oct 30 09:22 3301 Nov 08 23:58 3301 Nov 20 11:23	1°M.49'56 0°⊀ 11°⊀'07'28 17°⊀'48'58	24°36'16 0.67585 AU
desc. node evening max el retrograde	3300 Oct 23 04:17 3300 Oct 24 04:37 3300 Nov 05 08:04 3300 Nov 26 11:02 3300 Nov 29 04:44 3300 Dec 06 21:03	9°肌32'01 11°肌11'20 0°メ 27°メ28'09 0°る 3°る38'20	23°17'14	evening max el retrograde evening set	3301 Oct 09 22:31 3301 Oct 11 01:39 3301 Oct 30 09:22 3301 Nov 08 23:58 3301 Nov 20 11:23 3301 Nov 25 23:25	1°M49'56 0°♂ 11°♂07'28 17°♂48'58 15°♂31'07	
desc. node evening max el retrograde	3300 Oct 23 04:17 3300 Oct 24 04:37 3300 Nov 05 08:04 3300 Nov 26 11:02 3300 Nov 29 04:44 3300 Dec 06 21:03 3300 Dec 11 19:22	9°M32'01 11°M11'20 0°₹ 27°₹28'09 0°♂ 3°♂38'20 1°♂36'20 30°R₹	23°17'14	evening max el retrograde evening set min. Earth dist. asc. node	3301 Oct 09 22:31 3301 Oct 11 01:39 3301 Oct 30 09:22 3301 Nov 08 23:58 3301 Nov 20 11:23 3301 Nov 25 23:25 3301 Nov 30 14:33 3301 Nov 30 13:48	1°M49'56 0° ₹ 11° ₹ 07'28 17° ₹ 48'58 15° ₹ 31'07 10° ₹ 14'49	
desc. node evening max el retrograde evening set asc. node	3300 Oct 23 04:17 3300 Oct 24 04:37 3300 Nov 05 08:04 3300 Nov 26 11:02 3300 Nov 29 04:44 3300 Dec 06 21:03 3300 Dec 11 19:22 3300 Dec 13 10:58 3300 Dec 13 16:45	9°M32'01 11°M11'20 0°ダ 27°ダ28'09 0°℧ 3°℧38'20 1°℧36'20 30°Rダ 29°ダ43'54		evening max el retrograde evening set min. Earth dist. asc. node inferior conj	3301 Oct 09 22:31 3301 Oct 11 01:39 3301 Oct 30 09:22 3301 Nov 08 23:58 3301 Nov 20 11:23 3301 Nov 25 23:25 3301 Nov 30 14:33 3301 Nov 30 13:48 3301 Dec 01 11:04	1°M.49'56 0° ₹ 11° ₹ 07'28 17° ₹ 48'58 15° ₹ 31'07 10° ₹ 14'49 10° ₹ 17'19 9° ₹ 06'30	0.67585 AU 0°18'11
desc. node evening max el retrograde evening set asc. node inferior conj	3300 Oct 23 04:17 3300 Oct 24 04:37 3300 Nov 05 08:04 3300 Nov 26 11:02 3300 Nov 29 04:44 3300 Dec 06 21:03 3300 Dec 11 19:22 3300 Dec 13 10:58 3300 Dec 13 16:45 3300 Dec 17 04:43	9°肌32'01 11°肌11'20 0°メ 27°メ28'09 0°云 3°云38'20 1°云36'20 30°Rメ 29°メ43'54 25°メ12'21	1°10'13	evening max el retrograde evening set min. Earth dist. asc. node inferior conj minimum elong	3301 Oct 09 22:31 3301 Oct 11 01:39 3301 Oct 30 09:22 3301 Nov 08 23:58 3301 Nov 20 11:23 3301 Nov 25 23:25 3301 Nov 30 14:33 3301 Nov 30 13:48 3301 Dec 01 11:04 3301 Dec 01 10:37	1°M.49'56 0° ₹ 11° ₹'07'28 17° ₹'48'58 15° ₹'31'07 10° ₹'14'49 10° ₹'17'19 9° ₹'06'30 9° ₹'07'59	0.67585 AU
desc. node evening max el retrograde evening set asc. node inferior conj minimum elong	3300 Oct 23 04:17 3300 Oct 24 04:37 3300 Nov 05 08:04 3300 Nov 26 11:02 3300 Nov 29 04:44 3300 Dec 06 21:03 3300 Dec 11 19:22 3300 Dec 13 10:58 3300 Dec 13 16:45 3300 Dec 17 04:43 3300 Dec 17 03:09	9°M32'01 11°M11'20 0°メ 27°メ28'09 0°उ 3°उ38'20 1°उ36'20 30°Rメ 29°メ43'54 25°メ12'21 25°メ17'41	1°10'13 1°09'36	evening max el retrograde evening set min. Earth dist. asc. node inferior conj minimum elong morning rise	3301 Oct 09 22:31 3301 Oct 11 01:39 3301 Oct 30 09:22 3301 Nov 08 23:58 3301 Nov 20 11:23 3301 Nov 25 23:25 3301 Nov 30 14:33 3301 Nov 30 13:48 3301 Dec 01 11:04 3301 Dec 01 10:37 3301 Dec 06 21:54	1°M.49'56 0° \$\tilde{\sigma}\$ 11° \$\tilde{\sigma}\$07'28 17° \$\tilde{\sigma}\$48'58 15° \$\tilde{\sigma}\$31'07 10° \$\tilde{\sigma}\$14'49 10° \$\tilde{\sigma}\$17'19 9° \$\tilde{\sigma}\$06'30 9° \$\tilde{\sigma}\$07'59 3° \$\tilde{\sigma}\$04'45	0.67585 AU 0°18'11
desc. node evening max el retrograde evening set asc. node inferior conj minimum elong min. Earth dist.	3300 Oct 23 04:17 3300 Oct 24 04:37 3300 Nov 05 08:04 3300 Nov 26 11:02 3300 Nov 29 04:44 3300 Dec 06 21:03 3300 Dec 11 19:22 3300 Dec 13 10:58 3300 Dec 13 16:45 3300 Dec 17 04:43 3300 Dec 17 03:09 3300 Dec 16 18:51	9°M32'01 11°M11'20 0° ₹ 27° ₹28'09 0° ₹ 3° ₹38'20 1° ₹36'20 30° ₹ ₹ 29° ₹43'54 25° ₹12'21 25° ₹17'41 25° ₹46'16	1°10'13	evening max el retrograde evening set min. Earth dist. asc. node inferior conj minimum elong morning rise direct	3301 Oct 09 22:31 3301 Oct 11 01:39 3301 Oct 30 09:22 3301 Nov 08 23:58 3301 Nov 20 11:23 3301 Nov 25 23:25 3301 Nov 30 14:33 3301 Nov 30 13:48 3301 Dec 01 11:04 3301 Dec 01 10:37 3301 Dec 06 21:54 3301 Dec 10 15:05	1°M.49'56 0° \$\tilde{\sigma}\$ 11° \$\tilde{\sigma}\$07'28 17° \$\tilde{\sigma}\$48'58 15° \$\tilde{\sigma}\$31'07 10° \$\tilde{\sigma}\$14'49 10° \$\tilde{\sigma}\$17'19 9° \$\tilde{\sigma}\$06'30 9° \$\tilde{\sigma}\$07'59 3° \$\tilde{\sigma}\$04'45 1° \$\tilde{\sigma}\$45'28	0.67585 AU 0°18'11 0°18'00
desc. node evening max el retrograde evening set asc. node inferior conj minimum elong min. Earth dist. morning rise	3300 Oct 23 04:17 3300 Oct 24 04:37 3300 Nov 05 08:04 3300 Nov 26 11:02 3300 Nov 29 04:44 3300 Dec 06 21:03 3300 Dec 11 19:22 3300 Dec 13 16:45 3300 Dec 17 04:43 3300 Dec 17 03:09 3300 Dec 16 18:51 3300 Dec 22 10:52	9°M32'01 11°M11'20 0° ₹ 27° ₹28'09 0° ₹ 3° ₹38'20 1° ₹36'20 30° ₹ ₹ 29° ₹43'54 25° ₹12'21 25° ₹17'41 25° ₹46'16 19° ₹04'39	1°10'13 1°09'36	evening max el retrograde evening set min. Earth dist. asc. node inferior conj minimum elong morning rise	3301 Oct 09 22:31 3301 Oct 11 01:39 3301 Oct 30 09:22 3301 Nov 08 23:58 3301 Nov 20 11:23 3301 Nov 25 23:25 3301 Nov 30 14:33 3301 Nov 30 13:48 3301 Dec 01 10:37 3301 Dec 06 21:54 3301 Dec 10 15:05 3301 Dec 18 05:49	1°M.49'56 0° \$\tilde{\sigma}\$ 11° \$\tilde{\sigma}\$07'28 17° \$\tilde{\sigma}\$48'58 15° \$\tilde{\sigma}\$31'07 10° \$\tilde{\sigma}\$14'49 10° \$\tilde{\sigma}\$17'19 9° \$\tilde{\sigma}\$06'30 9° \$\tilde{\sigma}\$04'45 1° \$\tilde{\sigma}\$45'28 6° \$\tilde{\sigma}\$05'35	0.67585 AU 0°18'11 0°18'00
desc. node evening max el retrograde evening set asc. node inferior conj minimum elong min. Earth dist. morning rise direct	3300 Oct 23 04:17 3300 Oct 24 04:37 3300 Nov 05 08:04 3300 Nov 26 11:02 3300 Nov 29 04:44 3300 Dec 06 21:03 3300 Dec 11 19:22 3300 Dec 13 10:58 3300 Dec 13 16:45 3300 Dec 17 04:43 3300 Dec 17 03:09 3300 Dec 16 18:51 3300 Dec 22 10:52 3300 Dec 26 17:03	9°M32'01 11°M11'20 0°ダ 27°ダ28'09 0°उ 3°♂38'20 1°♂36'20 30°Rダ 29°ダ43'54 25°ダ12'21 25°ダ12'12 25°ダ14'16 19°ダ04'39 17°ダ23'53	1°10'13 1°09'36 0.67909 AU	evening max el retrograde evening set min. Earth dist. asc. node inferior conj minimum elong morning rise direct morning max el	3301 Oct 09 22:31 3301 Oct 11 01:39 3301 Oct 30 09:22 3301 Nov 08 23:58 3301 Nov 20 11:23 3301 Nov 25 23:25 3301 Nov 30 14:33 3301 Nov 30 13:48 3301 Dec 01 11:04 3301 Dec 01 10:37 3301 Dec 06 21:54 3301 Dec 10 15:05 3301 Dec 18 05:49 3302 Jan 04 21:59	1°M.49'56 0°ネ 11°ネ'07'28 17°ネ'48'58 15°ネ'31'07 10°ネ'14'49 10°ネ'17'19 9°ネ'06'30 9°ネ'07'59 3°ネ'04'45 1°ネ'45'28 6°ネ'05'35	0.67585 AU 0°18'11 0°18'00
desc. node evening max el retrograde evening set asc. node inferior conj minimum elong min. Earth dist. morning rise	3300 Oct 23 04:17 3300 Oct 24 04:37 3300 Nov 05 08:04 3300 Nov 26 11:02 3300 Nov 29 04:44 3300 Dec 06 21:03 3300 Dec 11 19:22 3300 Dec 13 10:58 3300 Dec 13 16:45 3300 Dec 17 04:43 3300 Dec 17 03:09 3300 Dec 16 18:51 3300 Dec 22 10:52 3300 Dec 26 17:03 3301 Jan 04 06:54	9°M32'01 11°M11'20 0°ズ 27°ズ28'09 0°云 3°云38'20 1°云36'20 30°Rズ 29°ズ43'54 25°ズ12'12 25°ズ17'41 25°ズ17'41 25°ズ16'16 19°ズ04'39 17°ズ23'53 22°ズ23'08	1°10'13 1°09'36	evening max el retrograde evening set min. Earth dist. asc. node inferior conj minimum elong morning rise direct morning max el	3301 Oct 09 22:31 3301 Oct 11 01:39 3301 Oct 30 09:22 3301 Nov 08 23:58 3301 Nov 20 11:23 3301 Nov 25 23:25 3301 Nov 30 14:33 3301 Nov 30 13:48 3301 Dec 01 11:04 3301 Dec 01 10:37 3301 Dec 06 21:54 3301 Dec 10 15:05 3301 Dec 18 05:49 3302 Jan 04 21:59 3302 Jan 07 00:54	1°M.49'56 0°ズ 11°ズ'07'28 17°ズ'48'58 15°ズ'31'07 10°ズ'14'49 10°ズ'17'19 9°ズ'06'30 9°ズ'07'59 3°ズ'04'45 1°ズ'45'28 6°ズ'05'35 0°云 3°石'12'04	0.67585 AU 0°18'11 0°18'00
desc. node evening max el retrograde evening set asc. node inferior conj minimum elong min. Earth dist. morning rise direct morning max el	3300 Oct 23 04:17 3300 Oct 24 04:37 3300 Nov 05 08:04 3300 Nov 26 11:02 3300 Nov 29 04:44 3300 Dec 06 21:03 3300 Dec 11 19:22 3300 Dec 13 10:58 3300 Dec 13 16:45 3300 Dec 17 04:43 3300 Dec 17 03:09 3300 Dec 16 18:51 3300 Dec 22 10:52 3300 Dec 26 17:03 3301 Jan 04 06:54 3301 Jan 10 19:05	9°M32'01 11°M11'20 0° 27° 27° 28'28'09 0° 3° 3° 38'20 1° 36'20 30° 8 29° 43'54 25° 12'21 25° 17'41 25° 17'41 25° 17'41 25° 17'41 25° 17' 18' 23'53 22° 18' 0° 38' 0° 38' 18' 18' 18' 18' 18' 18' 18' 18' 18' 1	1°10'13 1°09'36 0.67909 AU	evening max el retrograde evening set min. Earth dist. asc. node inferior conj minimum elong morning rise direct morning max el	3301 Oct 09 22:31 3301 Oct 11 01:39 3301 Oct 30 09:22 3301 Nov 08 23:58 3301 Nov 20 11:23 3301 Nov 25 23:25 3301 Nov 30 14:33 3301 Nov 30 13:48 3301 Dec 01 11:04 3301 Dec 01 10:37 3301 Dec 06 21:54 3301 Dec 10 15:05 3301 Dec 18 05:49 3302 Jan 04 21:59 3302 Jan 07 00:54 3302 Jan 14 02:26	1°M.49'56 0°ズ 11°ズ07'28 17°ズ14'8'58 15°ズ13'107 10°ズ17'19 9°ズ06'30 9°ズ07'59 3°ズ04'45 1°ズ45'28 6°ズ05'35 0°उ 3°उ12'04 14°उ00'24	0.67585 AU 0°18'11 0°18'00
desc. node evening max el retrograde evening set asc. node inferior conj minimum elong min. Earth dist. morning rise direct	3300 Oct 23 04:17 3300 Oct 24 04:37 3300 Nov 05 08:04 3300 Nov 26 11:02 3300 Nov 29 04:44 3300 Dec 06 21:03 3300 Dec 11 19:22 3300 Dec 13 10:58 3300 Dec 13 16:45 3300 Dec 17 04:43 3300 Dec 17 03:09 3300 Dec 16 18:51 3300 Dec 22 10:52 3300 Dec 26 17:03 3301 Jan 04 06:54 3301 Jan 10 19:05 3301 Jan 20 03:53	9°M32'01 11°M11'20 0°ズ 27°ズ28'09 0°云 3°云38'20 1°云36'20 30°Rズ 29°ズ43'54 25°ズ12'21 25°ズ17'41 25°ズ46'16 19°ズ04'39 17°ズ23'53 22°ズ23'08 0°云 12°云59'38	1°10'13 1°09'36 0.67909 AU	evening max el retrograde evening set min. Earth dist. asc. node inferior conj minimum elong morning rise direct morning max el desc. node morning set	3301 Oct 09 22:31 3301 Oct 11 01:39 3301 Oct 30 09:22 3301 Nov 08 23:58 3301 Nov 20 11:23 3301 Nov 25 23:25 3301 Nov 30 14:33 3301 Nov 30 13:48 3301 Dec 01 11:04 3301 Dec 01 10:37 3301 Dec 06 21:54 3301 Dec 10 15:05 3301 Dec 18 05:49 3302 Jan 04 21:59 3302 Jan 07 00:54 3302 Jan 14 02:26 3302 Jan 24 07:19	1°M.49'56 0° 11° 11° 11° 11° 10° 14'49 10° 17'19 9° 10' 10' 10' 10' 10' 10' 10' 10	0.67585 AU 0°18'11 0°18'00 20°02'57
desc. node evening max el retrograde evening set asc. node inferior conj minimum elong min. Earth dist. morning rise direct morning max el	3300 Oct 23 04:17 3300 Oct 24 04:37 3300 Nov 05 08:04 3300 Nov 26 11:02 3300 Nov 29 04:44 3300 Dec 06 21:03 3300 Dec 11 19:22 3300 Dec 13 10:58 3300 Dec 13 16:45 3300 Dec 17 04:43 3300 Dec 17 03:09 3300 Dec 16 18:51 3300 Dec 22 10:52 3300 Dec 26 17:03 3301 Jan 04 06:54 3301 Jan 10 19:05	9°M32'01 11°M11'20 0° 27° 27° 28'28'09 0° 3° 3° 38'20 1° 36'20 30° 8 29° 43'54 25° 12'21 25° 17'41 25° 17'41 25° 17'41 25° 17'41 25° 17' 18' 23'53 22° 18' 0° 38' 0° 38' 18' 18' 18' 18' 18' 18' 18' 18' 18' 1	1°10'13 1°09'36 0.67909 AU	evening max el retrograde evening set min. Earth dist. asc. node inferior conj minimum elong morning rise direct morning max el	3301 Oct 09 22:31 3301 Oct 11 01:39 3301 Oct 30 09:22 3301 Nov 08 23:58 3301 Nov 20 11:23 3301 Nov 25 23:25 3301 Nov 30 14:33 3301 Nov 30 13:48 3301 Dec 01 11:04 3301 Dec 01 10:37 3301 Dec 06 21:54 3301 Dec 10 15:05 3301 Dec 18 05:49 3302 Jan 04 21:59 3302 Jan 07 00:54 3302 Jan 14 02:26	1°M.49'56 0° 11° 11° 11° 11° 10° 14'49 10° 17'19 9° 10' 10' 10' 10' 10' 10' 10' 10	0.67585 AU 0°18'11 0°18'00
desc. node evening max el retrograde evening set asc. node inferior conj minimum elong min. Earth dist. morning rise direct morning max el	3300 Oct 23 04:17 3300 Oct 24 04:37 3300 Nov 05 08:04 3300 Nov 26 11:02 3300 Nov 29 04:44 3300 Dec 06 21:03 3300 Dec 11 19:22 3300 Dec 13 10:58 3300 Dec 13 16:45 3300 Dec 17 04:43 3300 Dec 17 03:09 3300 Dec 16 18:51 3300 Dec 22 10:52 3300 Dec 26 17:03 3301 Jan 04 06:54 3301 Jan 10 19:05 3301 Jan 20 03:53	9°M32'01 11°M11'20 0°ズ 27°ズ28'09 0°云 3°云38'20 1°云36'20 30°Rズ 29°ズ43'54 25°ズ12'21 25°ズ17'41 25°ズ46'16 19°ズ04'39 17°ズ23'53 22°ズ23'08 0°云 12°云59'38	1°10'13 1°09'36 0.67909 AU	evening max el retrograde evening set min. Earth dist. asc. node inferior conj minimum elong morning rise direct morning max el desc. node morning set	3301 Oct 09 22:31 3301 Oct 11 01:39 3301 Oct 30 09:22 3301 Nov 08 23:58 3301 Nov 20 11:23 3301 Nov 25 23:25 3301 Nov 30 14:33 3301 Nov 30 13:48 3301 Dec 01 11:04 3301 Dec 01 10:37 3301 Dec 06 21:54 3301 Dec 10 15:05 3301 Dec 18 05:49 3302 Jan 04 21:59 3302 Jan 07 00:54 3302 Jan 14 02:26 3302 Jan 24 07:19	1°M.49'56 0° 11° 11° 11° 11° 10° 14'49 10° 17'19 9° 10' 10' 10' 10' 10' 10' 10' 10	0.67585 AU 0°18'11 0°18'00 20°02'57
desc. node evening max el retrograde evening set asc. node inferior conj minimum elong min. Earth dist. morning rise direct morning max el desc. node	3300 Oct 23 04:17 3300 Oct 24 04:37 3300 Nov 05 08:04 3300 Nov 26 11:02 3300 Nov 29 04:44 3300 Dec 06 21:03 3300 Dec 11 19:22 3300 Dec 13 10:58 3300 Dec 13 16:45 3300 Dec 17 04:43 3300 Dec 17 03:09 3300 Dec 16 18:51 3300 Dec 22 10:52 3300 Dec 26 17:03 3301 Jan 04 06:54 3301 Jan 10 19:05 3301 Jan 20 03:53 3301 Jan 31 11:37	9°M32'01 11°M11'20 0° 27° 27° 28'09 0° 3° 3° 38'20 1° 336'20 30° 8 29° 3'43'54 25° 3'12'21 25° 3'17'41 25° 3'46'16 19° 3'04'39 17° 3'23'53 22° 3'23'08 0° 5 12° 559'38 0° \$\$	1°10'13 1°09'36 0.67909 AU	evening max el retrograde evening set min. Earth dist. asc. node inferior conj minimum elong morning rise direct morning max el desc. node morning set	3301 Oct 09 22:31 3301 Oct 11 01:39 3301 Oct 30 09:22 3301 Nov 08 23:58 3301 Nov 20 11:23 3301 Nov 25 23:25 3301 Nov 30 14:33 3301 Nov 30 13:48 3301 Dec 01 11:04 3301 Dec 01 10:37 3301 Dec 06 21:54 3301 Dec 10 15:05 3301 Dec 18 05:49 3302 Jan 04 21:59 3302 Jan 07 00:54 3302 Jan 14 02:26 3302 Jan 24 07:19	1°M.49'56 0° 11° 11° 11° 11° 10° 14'49 10° 17'19 9° 10' 10' 10' 10' 10' 10' 10' 10	0.67585 AU 0°18'11 0°18'00 20°02'57
desc. node evening max el retrograde evening set asc. node inferior conj minimum elong min. Earth dist. morning rise direct morning max el desc. node morning set	3300 Oct 23 04:17 3300 Oct 24 04:37 3300 Nov 05 08:04 3300 Nov 26 11:02 3300 Nov 29 04:44 3300 Dec 06 21:03 3300 Dec 11 19:22 3300 Dec 13 10:58 3300 Dec 13 16:45 3300 Dec 17 04:43 3300 Dec 17 03:09 3300 Dec 16 18:51 3300 Dec 22 10:52 3300 Dec 26 17:03 3301 Jan 04 06:54 3301 Jan 10 19:05 3301 Jan 20 03:53 3301 Jan 31 11:37 3301 Feb 04 06:05	9°M32'01 11°M11'20 0° 27° 27° 28'09 0° 3° 3° 38'20 1° 336'20 30° 8 29° 3'43'54 25° 3'12'21 25° 3'17'41 25° 3'46'16 19° 3'04'39 17° 3'23'53 22° 3'23'08 0° 5' 12° 559'38 0° 5° 5° \$52'51	1°10'13 1°09'36 0.67909 AU 21°15'26	evening max el retrograde evening set min. Earth dist. asc. node inferior conj minimum elong morning rise direct morning max el desc. node morning set max. Earth dist.	3301 Oct 09 22:31 3301 Oct 11 01:39 3301 Oct 30 09:22 3301 Nov 08 23:58 3301 Nov 20 11:23 3301 Nov 25 23:25 3301 Nov 30 14:33 3301 Nov 30 13:48 3301 Dec 01 11:04 3301 Dec 01 10:37 3301 Dec 06 21:54 3301 Dec 10 15:05 3301 Dec 18 05:49 3302 Jan 04 21:59 3302 Jan 07 00:54 3302 Jan 14 02:26 3302 Jan 24 07:19 3302 Jan 24 23:18	1°M.49'56 0°ズ 11°ズ'07'28 17°ズ'48'58 15°ズ'31'07 10°ズ'14'49 10°ズ'17'19 9°ズ'06'30 9°ズ'07'59 3°ズ'04'45 1°ズ'45'28 6°ズ'05'35 0°℧ 3°℧12'04 14°℧00'24 0°≈ 1°≈03'46	0.67585 AU 0°18'11 0°18'00 20°02'57 1.43929 AU -2°00'47
desc. node evening max el retrograde evening set asc. node inferior conj minimum elong min. Earth dist. morning rise direct morning max el desc. node morning set	3300 Oct 23 04:17 3300 Oct 24 04:37 3300 Nov 05 08:04 3300 Nov 26 11:02 3300 Nov 29 04:44 3300 Dec 06 21:03 3300 Dec 11 19:22 3300 Dec 13 10:58 3300 Dec 13 16:45 3300 Dec 17 04:43 3300 Dec 17 03:09 3300 Dec 16 18:51 3300 Dec 22 10:52 3300 Dec 26 17:03 3301 Jan 04 06:54 3301 Jan 10 19:05 3301 Jan 20 03:53 3301 Jan 31 11:37 3301 Feb 04 06:05	9°M32'01 11°M11'20 0° 27° 27° 28'09 0° 3° 3° 38'20 1° 336'20 30° 8 29° 3'43'54 25° 3'12'21 25° 3'17'41 25° 3'46'16 19° 3'04'39 17° 3'23'53 22° 3'23'08 0° 5' 12° 559'38 0° 5° 5° \$52'51	1°10'13 1°09'36 0.67909 AU 21°15'26	evening max el retrograde evening set min. Earth dist. asc. node inferior conj minimum elong morning rise direct morning max el desc. node morning set max. Earth dist.	3301 Oct 09 22:31 3301 Oct 11 01:39 3301 Oct 30 09:22 3301 Nov 08 23:58 3301 Nov 20 11:23 3301 Nov 25 23:25 3301 Nov 30 14:33 3301 Dec 01 11:04 3301 Dec 01 10:37 3301 Dec 06 21:54 3301 Dec 10 15:05 3301 Dec 10 15:05 3301 Dec 18 05:49 3302 Jan 04 21:59 3302 Jan 04 21:59 3302 Jan 14 02:26 3302 Jan 24 07:19 3302 Jan 24 23:18	1°M.49'56 0° ₹ 11° ₹07'28 17° ₹48'58 15° ₹31'07 10° ₹14'49 10° ₹17'19 9° ₹06'30 9° ₹07'59 3° ₹04'45 1° ₹45'28 6° ₹05'35 0° ₹ 3° ₹12'04 14° ₹300'24 0° ≈ 1° ≈03'46	0.67585 AU 0°18'11 0°18'00 20°02'57 1.43929 AU -2°00'47
desc. node evening max el retrograde evening set asc. node inferior conj minimum elong min. Earth dist. morning rise direct morning max el desc. node morning set max. Earth dist.	3300 Oct 23 04:17 3300 Oct 24 04:37 3300 Nov 05 08:04 3300 Nov 26 11:02 3300 Nov 29 04:44 3300 Dec 06 21:03 3300 Dec 11 19:22 3300 Dec 13 16:45 3300 Dec 13 16:45 3300 Dec 17 04:43 3300 Dec 17 03:09 3300 Dec 16 18:51 3300 Dec 22 10:52 3300 Dec 26 17:03 3301 Jan 04 06:54 3301 Jan 10 19:05 3301 Jan 20 03:53 3301 Jan 31 11:37 3301 Feb 04 06:05 3301 Feb 11 13:55	9°M32'01 11°M11'20 0°ズ 27°ズ28'09 0°G 3°G38'20 1°G36'20 30°Rズ 29°ズ43'54 25°ズ12'21 25°ズ17'41 25°ズ46'16 19°ズ04'39 17°ズ23'53 22°ズ23'08 0°G 12°G59'38 0°会 5°≈52'51 17°≈39'03	1°10'13 1°09'36 0.67909 AU 21°15'26 1.42308 AU -2°06'30	evening max el retrograde evening set min. Earth dist. asc. node inferior conj minimum elong morning rise direct morning max el desc. node morning set max. Earth dist. superior conj minimum elong	3301 Oct 09 22:31 3301 Oct 11 01:39 3301 Oct 30 09:22 3301 Nov 08 23:58 3301 Nov 20 11:23 3301 Nov 20 11:23 3301 Nov 30 14:33 3301 Nov 30 13:48 3301 Dec 01 11:04 3301 Dec 01 10:37 3301 Dec 06 21:54 3301 Dec 10 15:05 3301 Dec 18 05:49 3302 Jan 04 21:59 3302 Jan 07 00:54 3302 Jan 14 02:26 3302 Jan 24 07:19 3302 Jan 24 23:18 3302 Jan 30 10:35 3302 Jan 30 05:48 3302 Feb 11 09:59	1°M.49'56 0°ズ 11°ズ'07'28 17°ズ'48'58 15°ズ'31'07 10°ズ'14'49 10°ズ'17'19 9°ズ'06'30 9°ズ'07'59 3°ズ'04'45 1°ズ'45'28 6°ズ'05'35 0°उ 3°उ'12'04 14°उ'00'24 0°≈ 1°≈03'46	0.67585 AU 0°18'11 0°18'00 20°02'57 1.43929 AU -2°00'47
desc. node evening max el retrograde evening set asc. node inferior conj minimum elong min. Earth dist. morning rise direct morning max el desc. node morning set max. Earth dist. superior conj	3300 Oct 23 04:17 3300 Oct 24 04:37 3300 Nov 05 08:04 3300 Nov 26 11:02 3300 Nov 29 04:44 3300 Dec 06 21:03 3300 Dec 11 19:22 3300 Dec 13 10:58 3300 Dec 13 16:45 3300 Dec 17 04:43 3300 Dec 17 03:09 3300 Dec 16 18:51 3300 Dec 22 10:52 3300 Dec 26 17:03 3301 Jan 04 06:54 3301 Jan 10 19:05 3301 Jan 20 03:53 3301 Jan 31 11:37 3301 Feb 04 06:05 3301 Feb 11 13:55	9°M32'01 11°M11'20 0°ズ 27°ズ28'09 0°G 3°G38'20 1°G36'20 30°Rズ 29°ズ43'54 25°ズ12'21 25°ズ17'41 25°ズ46'16 19°ズ04'39 17°ズ23'53 22°ズ23'08 0°G 12°G59'38 0°≈ 5°≈52'51 17°≈39'03	1°10'13 1°09'36 0.67909 AU 21°15'26 1.42308 AU -2°06'30	evening max el retrograde evening set min. Earth dist. asc. node inferior conj minimum elong morning rise direct morning max el desc. node morning set max. Earth dist. superior conj minimum elong evening rise	3301 Oct 09 22:31 3301 Oct 11 01:39 3301 Oct 30 09:22 3301 Nov 08 23:58 3301 Nov 20 11:23 3301 Nov 20 11:23 3301 Nov 30 14:33 3301 Nov 30 13:48 3301 Dec 01 11:04 3301 Dec 01 10:37 3301 Dec 01 10:37 3301 Dec 10 15:05 3301 Dec 18 05:49 3302 Jan 04 21:59 3302 Jan 07 00:54 3302 Jan 14 02:26 3302 Jan 24 07:19 3302 Jan 24 23:18 3302 Jan 30 10:35 3302 Jan 30 05:48 3302 Feb 11 09:59 3302 Feb 12 11:32	1°M.49'56 0°ズ 11°ズ07'28 17°ズ14'8'58 15°ズ31'07 10°ズ14'49 10°ズ17'19 9°ズ06'30 9°ズ07'59 3°ズ04'45 1°ズ45'28 6°ズ05'35 0°उ 3°उ12'04 14°उ00'24 0°≈ 1°≈03'46 9°≈54'02 9°≈34'28 0°升	0.67585 AU 0°18'11 0°18'00 20°02'57 1.43929 AU -2°00'47
desc. node evening max el retrograde evening set asc. node inferior conj minimum elong min. Earth dist. morning rise direct morning max el desc. node morning set max. Earth dist. superior conj minimum elong	3300 Oct 23 04:17 3300 Oct 24 04:37 3300 Nov 05 08:04 3300 Nov 26 11:02 3300 Nov 29 04:44 3300 Dec 06 21:03 3300 Dec 11 19:22 3300 Dec 13 10:58 3300 Dec 13 16:45 3300 Dec 17 04:43 3300 Dec 17 03:09 3300 Dec 16 18:51 3300 Dec 22 10:52 3300 Dec 26 17:03 3301 Jan 04 06:54 3301 Jan 10 19:05 3301 Jan 20 03:53 3301 Jan 31 11:37 3301 Feb 04 06:05 3301 Feb 11 13:55 3301 Feb 18 21:50 3301 Feb 18 22:40 3301 Feb 18 22:33	9°M32'01 11°M11'20 0°ズ 27°ズ28'09 0°G 3°G38'20 1°G36'20 30°Rズ 29°ズ43'54 25°ズ12'21 25°ズ17'41 25°ズ46'16 19°ズ04'39 17°ズ23'53 22°ズ23'08 0°G 12°G59'38 0°≈ 5°≈52'51 17°≈39'03 29°≈56'53 0°米00'30 0°米	1°10'13 1°09'36 0.67909 AU 21°15'26 1.42308 AU -2°06'30	evening max el retrograde evening set min. Earth dist. asc. node inferior conj minimum elong morning rise direct morning max el desc. node morning set max. Earth dist. superior conj minimum elong evening rise asc. node	3301 Oct 09 22:31 3301 Oct 11 01:39 3301 Oct 30 09:22 3301 Nov 08 23:58 3301 Nov 20 11:23 3301 Nov 25 23:25 3301 Nov 30 14:33 3301 Dec 01 11:04 3301 Dec 01 10:37 3301 Dec 06 21:54 3301 Dec 10 15:05 3301 Dec 18 05:49 3302 Jan 04 21:59 3302 Jan 07 00:54 3302 Jan 14 02:26 3302 Jan 24 07:19 3302 Jan 24 23:18 3302 Jan 30 10:35 3302 Jan 30 05:48 3302 Feb 11 09:59 3302 Feb 12 11:32 3302 Feb 26 13:06	1°M.49'56 0°ズ 11°ズ'07'28 17°ズ'48'58 15°ズ'31'07 10°ズ'14'49 10°ズ'17'19 9°ズ'06'30 9°ズ'07'59 3°ズ'04'45 1°ズ'45'28 6°ズ'05'35 0°उ 3°उ'12'04 14°उ'00'24 0°≈ 1°≈03'46 9°≈54'02 9°≈34'28 0°ዢ 1°光'49'49 24°Ҡ'52'41	0.67585 AU 0°18'11 0°18'00 20°02'57 1.43929 AU -2°00'47 2°00'33
desc. node evening max el retrograde evening set asc. node inferior conj minimum elong min. Earth dist. morning rise direct morning max el desc. node morning set max. Earth dist. superior conj	3300 Oct 23 04:17 3300 Oct 24 04:37 3300 Nov 05 08:04 3300 Nov 26 11:02 3300 Nov 29 04:44 3300 Dec 06 21:03 3300 Dec 11 19:22 3300 Dec 13 10:58 3300 Dec 13 16:45 3300 Dec 17 04:43 3300 Dec 17 03:09 3300 Dec 16 18:51 3300 Dec 22 10:52 3300 Dec 26 17:03 3301 Jan 04 06:54 3301 Jan 10 19:05 3301 Jan 20 03:53 3301 Jan 31 11:37 3301 Feb 04 06:05 3301 Feb 11 13:55 3301 Feb 18 21:50 3301 Feb 18 22:40 3301 Feb 18 22:33 3301 Mar 02 05:37	9°M32'01 11°M11'20 0°ズ 27°ズ28'09 0°G 3°G38'20 1°G36'20 30°Rズ 29°ズ43'54 25°ズ12'21 25°ズ17'41 25°ズ46'16 19°ズ04'39 17°ズ23'53 22°ズ23'08 0°G 12°G59'38 0°公 5°≈52'51 17°≈39'03 29°≈56'53 0°米00'30 0°米 20°米01'01	1°10'13 1°09'36 0.67909 AU 21°15'26 1.42308 AU -2°06'30	evening max el retrograde evening set min. Earth dist. asc. node inferior conj minimum elong morning rise direct morning max el desc. node morning set max. Earth dist. superior conj minimum elong evening rise	3301 Oct 09 22:31 3301 Oct 11 01:39 3301 Oct 30 09:22 3301 Nov 08 23:58 3301 Nov 20 11:23 3301 Nov 20 11:23 3301 Nov 30 14:33 3301 Nov 30 13:48 3301 Dec 01 11:04 3301 Dec 01 10:37 3301 Dec 06 21:54 3301 Dec 10 15:05 3301 Dec 18 05:49 3302 Jan 04 21:59 3302 Jan 07 00:54 3302 Jan 14 02:26 3302 Jan 24 07:19 3302 Jan 24 23:18 3302 Jan 30 10:35 3302 Jan 30 05:48 3302 Feb 11 09:59 3302 Feb 12 11:32 3302 Feb 26 13:06 3302 Mar 02 09:10	1°M.49'56 0°ズ 11°ズ07'28 17°ズ48'58 15°ズ31'07 10°ズ14'49 10°ズ17'19 9°ズ06'30 9°ズ07'59 3°ズ04'45 1°ズ45'28 6°ズ05'35 0°उ 3°उ12'04 14°उ00'24 0°≈ 1°≈03'46 9°≈54'02 9°≈34'28 0°ዢ 1°光49'49 24°Ҡ52'41 29°Ҡ29'47	0.67585 AU 0°18'11 0°18'00 20°02'57 1.43929 AU -2°00'47
desc. node evening max el retrograde evening set asc. node inferior conj minimum elong min. Earth dist. morning rise direct morning max el desc. node morning set max. Earth dist. superior conj minimum elong	3300 Oct 23 04:17 3300 Oct 24 04:37 3300 Nov 05 08:04 3300 Nov 26 11:02 3300 Nov 29 04:44 3300 Dec 06 21:03 3300 Dec 11 19:22 3300 Dec 13 10:58 3300 Dec 13 16:45 3300 Dec 17 04:43 3300 Dec 17 03:09 3300 Dec 16 18:51 3300 Dec 22 10:52 3300 Dec 26 17:03 3301 Jan 04 06:54 3301 Jan 10 19:05 3301 Jan 20 03:53 3301 Jan 31 11:37 3301 Feb 04 06:05 3301 Feb 11 13:55 3301 Feb 18 21:50 3301 Feb 18 22:40 3301 Feb 18 22:33 3301 Mar 07 19:05	9°M32'01 11°M11'20 0°ズ 27°ズ28'09 0°G 3°G38'20 1°G36'20 30°Rズ 29°ズ43'54 25°ズ12'21 25°ズ17'41 25°ズ46'16 19°ズ04'39 17°ズ23'53 22°ズ23'08 0°G 12°G59'38 0°公 5°≈52'51 17°≈39'03 29°≈56'53 0°米00'30 0°ዢ 20°米01'01 0°℃	1°10'13 1°09'36 0.67909 AU 21°15'26 1.42308 AU -2°06'30	evening max el retrograde evening set min. Earth dist. asc. node inferior conj minimum elong morning rise direct morning max el desc. node morning set max. Earth dist. superior conj minimum elong evening rise asc. node evening max el	3301 Oct 09 22:31 3301 Oct 11 01:39 3301 Oct 30 09:22 3301 Nov 08 23:58 3301 Nov 20 11:23 3301 Nov 20 11:23 3301 Nov 30 14:33 3301 Nov 30 13:48 3301 Dec 01 11:04 3301 Dec 01 10:37 3301 Dec 06 21:54 3301 Dec 10 15:05 3301 Dec 18 05:49 3302 Jan 04 21:59 3302 Jan 07 00:54 3302 Jan 14 02:26 3302 Jan 24 07:19 3302 Jan 24 23:18 3302 Jan 30 10:35 3302 Jan 30 05:48 3302 Feb 11 09:59 3302 Feb 12 11:32 3302 Feb 26 13:06 3302 Mar 02 09:10 3302 Mar 02 01:04	1°M.49'56 0°ズ 11°ズ07'28 17°ズ14'8'58 15°ズ31'07 10°ズ14'49 10°ズ17'19 9°ズ06'30 9°ズ07'59 3°ズ04'45 1°ズ45'28 6°ズ05'35 0°℧ 3°℧12'04 14°℧00'24 0°≈ 1°≈03'46 9°≈54'02 9°≈34'28 0°ዢ 1°光49'49 24°升52'41 29°升29'47 0°℃	0.67585 AU 0°18'11 0°18'00 20°02'57 1.43929 AU -2°00'47 2°00'33
desc. node evening max el retrograde evening set asc. node inferior conj minimum elong min. Earth dist. morning rise direct morning max el desc. node morning set max. Earth dist. superior conj minimum elong evening rise asc. node	3300 Oct 23 04:17 3300 Oct 24 04:37 3300 Nov 05 08:04 3300 Nov 26 11:02 3300 Nov 29 04:44 3300 Dec 06 21:03 3300 Dec 11 19:22 3300 Dec 13 10:58 3300 Dec 13 16:45 3300 Dec 17 04:43 3300 Dec 17 03:09 3300 Dec 16 18:51 3300 Dec 22 10:52 3300 Dec 26 17:03 3301 Jan 04 06:54 3301 Jan 10 19:05 3301 Jan 20 03:53 3301 Jan 31 11:37 3301 Feb 04 06:05 3301 Feb 11 13:55 3301 Feb 18 22:40 3301 Feb 18 22:40 3301 Mar 07 19:05 3301 Mar 07 19:05 3301 Mar 11 16:03	9°M32'01 11°M11'20 0°ズ 27°ズ28'09 0°G 3°G38'20 1°G36'20 30°Rズ 29°ズ43'54 25°ズ12'21 25°ズ17'41 25°ズ46'16 19°ズ04'39 17°ズ23'53 22°ズ23'08 0°G 12°G59'38 0°≈ 5°≈52'51 17°≈39'03 29°≈56'53 0°米00'30 0°光 20°Y34'54	1°10'13 1°09'36 0.67909 AU 21°15'26 1.42308 AU -2°06'30 2°06'30	evening max el retrograde evening set min. Earth dist. asc. node inferior conj minimum elong morning rise direct morning max el desc. node morning set max. Earth dist. superior conj minimum elong evening rise asc. node evening max el retrograde	3301 Oct 09 22:31 3301 Oct 11 01:39 3301 Oct 30 09:22 3301 Nov 08 23:58 3301 Nov 20 11:23 3301 Nov 20 11:23 3301 Nov 30 14:33 3301 Nov 30 13:48 3301 Dec 01 11:04 3301 Dec 01 10:37 3301 Dec 06 21:54 3301 Dec 10 15:05 3301 Dec 18 05:49 3302 Jan 04 21:59 3302 Jan 07 00:54 3302 Jan 14 02:26 3302 Jan 24 07:19 3302 Jan 24 23:18 3302 Jan 30 10:35 3302 Jan 30 05:48 3302 Feb 11 09:59 3302 Feb 12 11:32 3302 Feb 26 13:06 3302 Mar 02 09:10 3302 Mar 02 21:40 3302 Mar 08 19:37	1°M.49'56 0°ズ 11°ズ07'28 17°ズ48'58 15°ズ31'07 10°ズ14'49 10°ズ17'19 9°ズ06'30 9°ズ07'59 3°ズ04'45 1°ズ45'28 6°ズ05'35 0°℧ 3°℧12'04 14°℧00'24 0°≈ 1°≈03'46 9°≈54'02 9°≈34'28 0°Ҡ 1°Ҡ49'49 24°Ҡ52'41 29°Ҡ29'47 0°℃	0.67585 AU 0°18'11 0°18'00 20°02'57 1.43929 AU -2°00'47 2°00'33
desc. node evening max el retrograde evening set asc. node inferior conj minimum elong min. Earth dist. morning rise direct morning max el desc. node morning set max. Earth dist. superior conj minimum elong	3300 Oct 23 04:17 3300 Oct 24 04:37 3300 Nov 05 08:04 3300 Nov 26 11:02 3300 Nov 29 04:44 3300 Dec 06 21:03 3300 Dec 11 19:22 3300 Dec 13 10:58 3300 Dec 13 16:45 3300 Dec 17 04:43 3300 Dec 17 03:09 3300 Dec 16 18:51 3300 Dec 22 10:52 3300 Dec 26 17:03 3301 Jan 04 06:54 3301 Jan 10 19:05 3301 Jan 20 03:53 3301 Jan 31 11:37 3301 Feb 04 06:05 3301 Feb 11 13:55 3301 Feb 18 21:50 3301 Feb 18 22:40 3301 Feb 18 22:33 3301 Mar 07 19:05	9°M32'01 11°M11'20 0°ズ 27°ズ28'09 0°G 3°G38'20 1°G36'20 30°Rズ 29°ズ43'54 25°ズ12'21 25°ズ17'41 25°ズ46'16 19°ズ04'39 17°ズ23'53 22°ズ23'08 0°G 12°G59'38 0°公 5°≈52'51 17°≈39'03 29°≈56'53 0°米00'30 0°ዢ 20°米01'01 0°℃	1°10'13 1°09'36 0.67909 AU 21°15'26 1.42308 AU -2°06'30	evening max el retrograde evening set min. Earth dist. asc. node inferior conj minimum elong morning rise direct morning max el desc. node morning set max. Earth dist. superior conj minimum elong evening rise asc. node evening max el	3301 Oct 09 22:31 3301 Oct 11 01:39 3301 Oct 30 09:22 3301 Nov 08 23:58 3301 Nov 20 11:23 3301 Nov 20 11:23 3301 Nov 30 14:33 3301 Nov 30 13:48 3301 Dec 01 11:04 3301 Dec 01 10:37 3301 Dec 06 21:54 3301 Dec 10 15:05 3301 Dec 18 05:49 3302 Jan 04 21:59 3302 Jan 07 00:54 3302 Jan 14 02:26 3302 Jan 24 07:19 3302 Jan 24 23:18 3302 Jan 30 10:35 3302 Jan 30 05:48 3302 Feb 11 09:59 3302 Feb 12 11:32 3302 Feb 26 13:06 3302 Mar 02 09:10 3302 Mar 02 01:04	1°M.49'56 0°ズ 11°ズ07'28 17°ズ14'8'58 15°ズ31'07 10°ズ14'49 10°ズ17'19 9°ズ06'30 9°ズ07'59 3°ズ04'45 1°ズ45'28 6°ズ05'35 0°℧ 3°℧12'04 14°℧00'24 0°≈ 1°≈03'46 9°≈54'02 9°≈34'28 0°ዢ 1°光49'49 24°升52'41 29°升29'47 0°℃	0.67585 AU 0°18'11 0°18'00 20°02'57 1.43929 AU -2°00'47 2°00'33

	3302 Mar 14 19:14	30° Ŗ ₩			3303 Feb 04 10:40	0°){	
			2027102	ī			
inferior conj	3302 Mar 17 20:20	26°) ₹56'05	3°37'02	asc. node	3303 Feb 13 10:09	12°) 25'04	10000150
minimum elong	3302 Mar 17 21:05	26°) 54'04	3°37'00	evening max el	3303 Feb 13 21:12	12°) €53'49	18°32'59
min. Earth dist.	3302 Mar 20 13:11	24°) €02'30	0.62917 AU	retrograde	3303 Feb 20 10:38	16°) 30′28	
morning rise	3302 Mar 24 00:22	20°) 52′30		evening set	3303 Feb 23 13:29	15°) 35′56	
direct	3302 Mar 30 22:20	18°) (14′05		inferior conj	3303 Mar 01 08:25	10°) €02'12	3°36'57
desc. node	3302 Apr 05 00:08	19° ∺ 28'13		minimum elong	3303 Mar 01 07:33	10°) 04'47	3°36'53
morning max el	3302 Apr 13 21:15	26° 升 11'32	27°48'16	min. Earth dist.	3303 Mar 03 09:45	7°) 35′48	0.64716 AU
	3302 Apr 17 10:17	0° Y		morning rise	3303 Mar 07 01:05	3° ¥ 52'14	
	3302 May 07 23:22	0°8		direct	3303 Mar 13 19:27	1°) €02'02	
morning set	3302 May 18 01:49	18° 8 58'00		desc. node	3303 Mar 22 21:10	4° ¥ 56'23	
morning set	3302 May 23 09:21	0°Ⅱ			3303 Mar 27 06:47	8° X 53'19	2791700
	,		1 22700 ATT	morning max el		6 χ3319 0°Υ	27 1700
max. Earth dist.	3302 May 23 11:09	0° Ⅱ 09'37	1.32700 AU		3303 Apr 12 17:55		
					3303 Apr 30 07:48	0°8	
superior conj	3302 May 25 17:14	5° Ⅱ 00'10	0°02'09	morning set	3303 May 01 16:55	2° 8 39'57	
minimum elong	3302 May 25 17:08	4° Ⅱ 59'36	0°02'07	max. Earth dist.	3303 May 06 09:24	12° 8 03'00	1.33654 AU
behind sun begin	3302 May 25 11:56	4° Ⅲ 31'31					
behind sun end	3302 May 25 22:20	5° Ⅱ 27'44		superior conj	3303 May 09 21:18	19° 8 20'21	-0°25'58
asc. node	3302 May 25 12:22	4° ∏ 33'49		minimum elong	3303 May 09 22:38	19° 8 27'23	0°25'41
evening rise	3302 Jun 01 16:49	20° Ⅱ 05'33		asc. node	3303 May 12 09:26	24° 8 39'44	
e vennig 115e	3302 Jun 06 12:45	0.8e		use. Hour	3303 May 14 21:28	0°Ⅱ	
avanina may al	3302 Jun 25 09:52	28° © 12'28	22020146	avanina riaa	3303 May 17 03:51	4° ∏ 47'52	
evening max el			23 38 40	evening rise	•		
	3302 Jun 27 09:25	0 ° Ω			3303 May 30 22:52	0.2 0.2	
desc. node	3302 Jul 01 23:24	3° Ω 09′18		evening max el	3303 Jun 07 01:47	8° © 40'14	22°02'50
retrograde	3302 Jul 09 01:31	5° Ω 03′08		desc. node	3303 Jun 18 20:26	14° © 56'16	
evening set	3302 Jul 13 04:48	4° Ω 25'36		retrograde	3303 Jun 19 19:29	14° © 58'24	
min. Earth dist.	3302 Jul 19 20:00	1° Ω 18'55	0.55994 AU	evening set	3303 Jun 22 14:01	14° © 41'17	
inferior conj	3302 Jul 21 23:58	0° Ω 01′03	-4°45'20	inferior conj	3303 Jul 01 22:18	10° © 36'01	-3°34'41
minimum elong	3302 Jul 21 18:21	0° Ω 09'31	4°44'33	minimum elong	3303 Jul 01 13:59	10°5947'41	3°32'22
•	3302 Jul 22 00:40	30° №		min. Earth dist.	3303 Jul 01 06:46	10° © 57'48	0.55012 AU
morning rise	3302 Jul 30 10:25	26°905'22		morning rise	3303 Jul 10 15:38	6°5944'31	
direct	3302 Aug 02 05:29	25°545'50		direct	3303 Jul 13 18:40	6°922'50	
direct	-	0°Ω			3303 Jul 25 15:51	11°955'56	21022124
	3302 Aug 11 21:46		20007101	morning max el			21-32-34
morning max el	3302 Aug 12 11:37	0° Ω 31'19	20°07'01		3303 Aug 07 17:31	0 \circ Ω	
asc. node	3302 Aug 21 11:36	12° Ω 15'44		asc. node	3303 Aug 08 08:39	1° Ω 08′36	
morning set	3302 Aug 30 17:48	29° Ω 40'52		morning set	3303 Aug 15 02:37	14° Ω 27'19	
	3302 Aug 30 21:34	0° m y					
				superior conj	3303 Aug 22 09:44	29° Ω 46'49	1°42'52
superior conj	3302 Sep 07 10:48	15° mp 24'24	1°44'35	minimum elong	3303 Aug 22 08:45	29° Ω 41'42	1°42'50
minimum elong	3302 Sep 07 11:14	15° Mp 26'33	1°44'35	•	3303 Aug 22 12:15	0° m)	
max. Earth dist.	3302 Sep 12 21:45	26° m 05'49	1.36763 AU	max. Earth dist.	3303 Aug 26 09:38	7° m) 58'20	1.35030 AU
man, Darvir dige.	3302 Sep 14 23:32	0∘ ʊ	1.50705110	evening rise	3303 Aug 30 17:45	16° Mp 28'42	1.50000110
evening rise	3302 Sep 14 25:32 3302 Sep 16 18:10	ა _ 3° ჲ 16'01		evening rise	3303 Sep 07 04:28	0° ட	
•	*	22° £ 17'39		desc. node		0 = 12° £ 28'28	
desc. node	3302 Sep 27 22:42			desc. node	3303 Sep 14 19:45		
	3302 Oct 02 22:56	0°M			3303 Sep 27 09:22	0°M	
evening max el	3302 Oct 22 12:18	24°M49'24 -	25°47'53	evening max el	3303 Oct 05 00:42	8°M27'17	26°44'34
	3302 Oct 28 23:38	0° ∡		retrograde	3303 Oct 18 01:28	15°M42'29	
retrograde	3302 Nov 03 21:02	1° ≯ ′52'40		evening set	3303 Oct 24 16:30	13°M01'46	
	3302 Nov 09 03:21	30°RM₊		min. Earth dist.	3303 Oct 28 17:07	8°M56'53	0.65896 AU
evening set	3302 Nov 09 23:08	29°M21'02		inferior conj	3303 Oct 30 12:24	6° ™ 49'23	-1°37'38
min. Earth dist.	3302 Nov 14 06:47	24° ™ 39'59	0.66916 AU	minimum elong	3303 Oct 30 15:05	6° ™ 41'28	1°36'33
inferior conj	3302 Nov 15 14:18	23°M00'16	-0°38'13	asc. node	3303 Nov 04 07:53	1°M56'02	
minimum elong	3302 Nov 15 15:18	22°M57'06	0°37'47	morning rise	3303 Nov 05 14:23	1°ML07'40	
asc. node	3302 Nov 17 10:50	20°M43'11		direct	3303 Nov 08 11:14	0°M21'58	
morning rise	3302 Nov 21 07:49	17° M 07'07		morning max el	3303 Nov 15 01:10	3°M56'41	18°23'08
direct	3302 Nov 24 13:47	16°M06'27		morning max ci	3303 Nov 13 01:10 3303 Dec 02 21:11	3 1163641 0° √ 7	10 23 00
			10005103				
morning max el	3302 Dec 01 12:31	19°M58'30	19°05'02	morning set	3303 Dec 04 14:06	2° ×7 44'55	
	3302 Dec 09 10:35	0° ∡		desc. node	3303 Dec 11 18:59	14° ∡ 17'38	
morning set	3302 Dec 24 07:04	22° ∡ ⁴41'47					
desc. node	3302 Dec 24 21:56	23° х 39′45		superior conj	3303 Dec 20 01:16	27° ₹ 21'05	
	3302 Dec 28 23:25	5°0		minimum elong	3303 Dec 19 18:28	26° ₹ 54′26	0°53'15
max. Earth dist.	3303 Jan 07 15:15	15° る 07'56	1.44937 AU	max. Earth dist.	3303 Dec 21 10:15	29° ∡ ³30'37	1.45221 AU
					3303 Dec 21 17:45	5°0	
superior conj	3303 Jan 09 23:19	18° る 49'06	-1°35'47	evening rise	3304 Jan 05 04:40	22° ප් 40'21	
minimum elong	3303 Jan 09 14:19	18° る 13'31		3 - 7	3304 Jan 09 20:28	0°≈	
viong	3303 Jan 16 23:43	0°≈		greatest brilliancy	3304 Jan 15 15:25	9° ≈ 02'31	-0.8m
evening rise	3303 Jan 24 19:41	0 ∞ 12°≈42'55		evening max el	3304 Jan 28 06:18	9 ≈02 31 26°≈22'25	-0.8m 19°12'07
		14 ~~+4))		CVCIIIII III III TI	JJU⊤ Jan ∠0 UU.18	20 ~ 22 23	17 14 07

page 110

superior conj	3305 Nov 09 02:12	16°M48'38	0°37'07	max. Earth dist.	3306 Oct 29 08:26	11° M .32'42	1.41962 AU
minimum elong	3305 Nov 09 05:37	17°M03'00	0°36'38	desc. node	3306 Nov 01 10:03	16°M36'02	
desc. node	3305 Nov 14 13:03	25°M49'19		evening rise	3306 Nov 04 01:10	20°M50'38	
max. Earth dist.	3305 Nov 15 20:51	27°M58'08	1.43634 AU	C	3306 Nov 09 21:27	0° ∡ ¹	
	3305 Nov 17 03:10	0° ∡ ¹			3306 Dec 01 00:58	8°0	
evening rise	3305 Nov 24 04:34	11° ∡ 106'57		evening max el	3306 Dec 07 03:37	6° る 59'47	22°31'20
	3305 Dec 06 16:54	8°0		retrograde	3306 Dec 16 21:54	12° る 47'49	
evening max el	3305 Dec 24 09:48	23° る 25'50	21°14'46	evening set	3306 Dec 21 12:59	10°る55'07	
retrograde	3306 Jan 02 02:05	28° る 34'42		asc. node	3306 Dec 21 22:14	10° る 35'17	
asc. node	3306 Jan 04 01:12	28° る 13'34		inferior conj	3306 Dec 26 21:37	4° る 33'43	1°37'43
evening set	3306 Jan 06 05:32	26° る 58'20		minimum elong	3306 Dec 26 19:36	4° る 40'42	1°36'58
inferior conj	3306 Jan 11 13:59	20° る 44'13	2°20'28	min. Earth dist.	3306 Dec 26 17:55	4° る 46'32	0.67948 AU
minimum elong	3306 Jan 11 11:31	20° る 52'46	2°19'41		3306 Dec 30 10:38	30°₹ ⋌ 7	
min. Earth dist.	3306 Jan 11 21:41	20° る 17'38	0.67726 AU	morning rise	3307 Jan 01 02:05	28° ₹ 23'54	
morning rise	3306 Jan 16 17:18	14° る 31'32		direct	3307 Jan 05 16:30	26° ₹ 29'57	
direct	3306 Jan 21 22:33	12° る 14'51			3307 Jan 12 20:57	0°₹	
morning max el	3306 Feb 01 10:03	18° る 29'02	23°29'52	morning max el	3307 Jan 14 21:58	1° る 54'58	22°02'25
desc. node	3306 Feb 10 12:17	29° る 14'54		desc. node	3307 Jan 28 09:17	18° る 51'15	
	3306 Feb 11 01:57	0° ≈			3307 Feb 05 01:05	0° ≈	
	3306 Mar 03 07:54	0° ∀		morning set	3307 Feb 16 19:51	18° ≈ 17'09	
morning set	3306 Mar 08 14:41	8°) 44'17		max. Earth dist.	3307 Feb 22 13:12	27° ≈ 40'58	1.41182 AU
max. Earth dist.	3306 Mar 12 15:05	15°) 39′13	1.39031 AU		3307 Feb 23 22:14	0°)	
superior conj	3306 Mar 20 03:46	29°) 17'13	1946'06	superior conj	3307 Mar 02 07:06	11° ₩ 01'39	2002125
minimum elong	3306 Mar 20 03:40	29° X 38'29		minimum elong	3307 Mar 02 07:06	11° X 14'58	
minimum clong	3306 Mar 20 12:55	29 γ (3629	1 43 40	evening rise	3307 Mar 12 18:37	0°Υ10'02	2 02 17
evening rise	3306 Mar 29 10:32	17° Υ 05'33		evening rise	3307 Mar 12 16:28	0°Υ	
asc. node	3306 Apr 02 00:33	23° Y 57'59		asc. node	3307 Mar 12 10:28 3307 Mar 19 21:35	13° Y 07'03	
asc. node	3306 Apr 05 07:34	0° 8		evening max el	3307 Mar 19 21:33 3307 Mar 29 01:09	26° Υ 06'09	18°14'52
evening max el	3306 Apr 14 17:30	13° 8 22'16	18°42'22	retrograde	3307 Apr 05 02:03	29° Υ 37'32	10 14 32
retrograde	3306 Apr 14 17:30 3306 Apr 22 17:48	17° 8 17'32	10 42 22	evening set	3307 Apr 07 14:02	29° Υ 11'44	
evening set	3306 Apr 24 23:26	17° 8 00'22		inferior conj	3307 Apr 07 14:02 3307 Apr 14 14:46	24° Υ 28'02	2°54'25
inferior conj	3306 May 02 18:27	12° 8 37'31	1°50'23	minimum elong	3307 Apr 14 14:40	24° Υ 20'30	2°53'42
minimum elong	3306 May 02 10:27	12° 8 30'52	1°49'19	min. Earth dist.	3307 Apr 14 10:12 3307 Apr 18 00:26	21° Υ 30'50	0.59580 AU
min. Earth dist.	3306 May 06 02:16	10° 8 09'27	0.57497 AU	morning rise	3307 Apr 21 19:51	18° Υ 47'04	0.57560 AC
desc. node	3306 May 09 11:28	8° 8 00'46	0.57477710	desc. node	3307 Apr 26 08:30	17° Υ 03'36	
morning rise	3306 May 10 17:23	7° 8 23'37		direct	3307 Apr 28 05:37	16° Y 53'54	
direct	3306 May 16 07:57	6° 8 06'02		morning max el	3307 May 12 14:01	24° Y 42'46	27°24'57
morning max el	3306 May 30 16:29	13° 8 38'58	26°23'21	morning mun er	3307 May 17 10:06	0°8	2, 2.0,
	3306 Jun 12 15:07	0°Щ			3307 Jun 05 21:22	0°II	
morning set	3306 Jun 28 12:21	29° Ⅱ 06'07		morning set	3307 Jun 12 20:29	13° Ⅱ 46'49	
asc. node	3306 Jun 28 23:49	0°906'43		asc. node	3307 Jun 15 20:52	20° Ⅱ 10'43	
	3306 Jun 28 22:33	0ಂತಾ					
				superior conj	3307 Jun 19 23:44	29° Ⅱ 10'51	0°42'12
superior conj	3306 Jul 05 12:03	14° © 17'06	1°03'47	minimum elong	3307 Jun 19 22:00	29° Ⅱ 01'16	0°41'51
minimum elong	3306 Jul 05 09:47	14° 5 04'38	1°03'23	max. Earth dist.	3307 Jun 19 09:40	27° II 53'22	1.32084 AU
max. Earth dist.	3306 Jul 05 21:40	15° © 10'07	1.32215 AU		3307 Jun 20 08:39	0°€	
evening rise	3306 Jul 12 10:23	29° © 16'52		evening rise	3307 Jun 26 19:45	14° © 04'09	
	3306 Jul 12 18:39	$0^{\circ}\Omega$			3307 Jul 04 19:48	$0^{\circ}\Omega$	
	3306 Jul 29 08:53	0° m		desc. node	3307 Jul 23 07:47	26° Ω 58'33	
desc. node	3306 Aug 05 10:46	9° № 47'33		evening max el	3307 Jul 25 01:42	28° Ω 43'08	25°58'28
evening max el	3306 Aug 12 03:44	17° m 11'09	26°57'58		3307 Jul 26 11:20	0°Щ	
retrograde	3306 Aug 26 01:22	24° Mp 23'06		retrograde	3307 Aug 08 01:10	5° ™ 51'49	
evening set	3306 Sep 02 01:15	22° Mp 14'17		evening set	3307 Aug 14 07:58	4° Mp 17′02	
min. Earth dist.	3306 Sep 05 17:58	19° m 34'36	0.60862 AU	min. Earth dist.	3307 Aug 18 14:07		0.58790 AU
inferior conj	3306 Sep 08 22:30	16° Mp 52′21			3307 Aug 20 21:13	30° R Ω	
minimum elong	3306 Sep 09 03:58	16° Mp 40'42	4°25'19	inferior conj	3307 Aug 21 20:21	29° Ω 16′56	
morning rise	3306 Sep 16 08:30	12°M 03'31		minimum elong	3307 Aug 21 23:19	29° Ω 11′26	4°59'44
direct	3306 Sep 18 17:36	11° m 41'04		morning rise	3307 Aug 29 16:53	24° Ω 51′20	
asc. node	3306 Sep 24 22:59	14°Mp21'28		direct	3307 Sep 01 03:58	24° Ω 31'18	
morning max el	3306 Sep 25 22:51	15°Mp 15'50	18°02'11	morning max el	3307 Sep 09 06:21		18°33'55
	3306 Oct 06 03:25	0∘ ত			3307 Sep 10 19:24	0° m	
morning set	3306 Oct 11 17:59	10° £ 13′52		asc. node	3307 Sep 11 20:03	1°Mp12'19	
				morning set	3307 Sep 25 10:42	24° m 13'34	
superior conj	3306 Oct 21 17:23	28° £ 26'13	1°09'51		3307 Sep 28 10:16	0∘ ত	
minimum elong	3306 Oct 21 21:39	28° £ 45'06	1°09'20	_			
	3306 Oct 22 14:39	0°M₊		superior conj	3307 Oct 04 06:49	11° ≏ 09'29	1°31'08

minimum elong	3307 Oct 04 09:58	11° ≏ 24'11	1°30'52		3308 Sep 19 06:35	0∘ ত	
max. Earth dist.	3307 Oct 11 14:58	24° £ 24'54	1.39957 AU	max. Earth dist.	3308 Sep 22 18:56	° – 6° • 35'48	1.37880 AU
max. Earth dist.	3307 Oct 14 21:02	0° M 。	1.57757 110	evening rise	3308 Sep 26 13:07	13° ≏ 22'29	1.57000710
evening rise	3307 Oct 15 19:26	1°M34'16		desc. node	3308 Oct 05 04:08	27° £ 53'38	
desc. node	3307 Oct 19 07:05	7° M _19'01			3308 Oct 06 11:53	0°M	
	3307 Nov 03 05:44	0° ∡ ¹			3308 Oct 28 05:08	0° ⊼	
evening max el	3307 Nov 19 17:38	20° ∡ 36'55	23°51'13	evening max el	3308 Nov 01 05:55	4° √ 17'11	25°08'03
retrograde	3307 Nov 30 14:36	27° ∡ *01′22		retrograde	3308 Nov 13 03:13	11° ₹ 10′05	
evening set	3307 Dec 05 18:46	24° ₹ 52'12		evening set	3308 Nov 18 21:14	8° ∡ ¹45'46	
asc. node	3307 Dec 08 19:16	21° х ³38'40		min. Earth dist.	3308 Nov 23 08:59	3° ∡ ⁴44'21	0.67337 AU
min. Earth dist.	3307 Dec 10 14:28	19° ∡ 16'36	0.67815 AU	inferior conj	3308 Nov 24 10:12	2° ≯ 21'58	-0°05'15
inferior conj	3307 Dec 11 04:57	18° ∡ "27′23	0°48'47	minimum elong	3308 Nov 24 10:20	2° ₹ 21'32	0°05'12
minimum elong	3307 Dec 11 03:49	18° ∡ ³31'14	0°48'19	transit middle	3308 Nov 24 10:20	2° ₹ 21'32	0°05'12
morning rise	3307 Dec 16 12:52	12° ∡ 22'12		transit begin	3308 Nov 24 07:42	2° х 30′08	
direct	3307 Dec 20 13:17	10° ≯ 51'01		transit end	3308 Nov 24 12:58	2° ≯ 12'57	
morning max el	3307 Dec 28 16:32	15° х 32′09	20°43'03	asc. node	3308 Nov 24 16:19	2° ₹ 01'59	
	3308 Jan 09 03:33	0°ಕ			3308 Nov 26 06:49	30°RM	
desc. node	3308 Jan 15 06:20	8° ප 53'01		morning rise	3308 Nov 29 23:39	26°M23'37	
morning set	3308 Jan 26 23:30	26° ප් 41'41		direct	3308 Dec 03 11:43	25°M12'51	
	3308 Jan 29 02:16	0° ≈		morning max el	3308 Dec 10 18:57	29°M20'03	19°36'27
max. Earth dist.	3308 Feb 04 18:20	10° ≈ 37'46	1.43066 AU		3308 Dec 11 10:29	0° ∡	
				greatest brilliancy	3308 Dec 23 22:48	16° ₹ 47'09	-0.7m
superior conj	3308 Feb 11 10:54	21° ≈ 39'42		desc. node	3309 Jan 01 03:22	29° ₹ 12'44	
minimum elong	3308 Feb 11 09:33	21°≈34'01	2°06'14		3309 Jan 01 15:41	0°る	
	3308 Feb 16 08:24	0° ∀		morning set	3309 Jan 04 20:13	4° る 54'56	
evening rise	3308 Feb 23 11:25	12° 升 29'30		max. Earth dist.	3309 Jan 17 06:21	24° る 19'57	1.44439 AU
1	3308 Mar 04 15:18	0° Υ 1° Υ 46'20			3309 Jan 20 19:42	0° ≈	
asc. node	3308 Mar 05 18:37	9° Υ 11'35	10007102	gumariar agni	2200 Ion 21 12:41	190000111	1950124
evening max el	3308 Mar 11 12:49	9° Y 11'35 12° Y 34'42	18°07'03	superior conj	3309 Jan 21 12:41	1°≈08'11	
retrograde evening set	3308 Mar 18 01:48 3308 Mar 20 19:32	12° γ 34 42 11° γ 58'38		minimum elong evening rise	3309 Jan 21 05:34 3309 Feb 04 08:31	0°≈39'35 23°≈55'26	1°52'06
inferior conj	3308 Mar 27 05:45	6°Υ54'32	3°28'28	evening rise	3309 Feb 04 08.31 3309 Feb 07 22:58	23 ≈33 26 0° \	
minimum elong	3308 Mar 27 07:34	6° Υ 49'58	3°28'16	asc. node	3309 Feb 20 15:38	19°) 46'35	
min. Earth dist.	3308 Mar 30 06:27	3°Υ52'54	0.61743 AU	evening max el	3309 Feb 23 01:29	22°\(\frac{1}{30}\)'58	18°18'18
morning rise	3308 Apr 02 18:00	0° Υ 56'33	0.017 4 3 AO	retrograde	3309 Mar 01 12:20	25° H 59'14	10 10 10
morning rise	3308 Apr 04 05:51	30° ₹		evening set	3309 Mar 04 11:43	25°) 11'48	
direct	3308 Apr 09 14:05	28°) 31'27		inferior conj	3309 Mar 10 11:16	19° ¥ 48'40	3°39'04
desc. node	3308 Apr 12 05:32	28° H 51'29		minimum elong	3309 Mar 10 11:17	19°) (48'38	3°39'04
	3308 Apr 15 06:37	0°Υ		min. Earth dist.	3309 Mar 12 21:45	17°) 04'33	
morning max el	3308 Apr 23 17:56	6° Y 28'42	27°50'32	morning rise	3309 Mar 16 09:59	13°) 41′36	
C	3308 May 11 12:51	0°8		direct	3309 Mar 23 07:17	10°) 56′07	
morning set	3308 May 27 00:02	28° 8 11'26		desc. node	3309 Mar 30 02:34	13°) 09′16	
•	3308 May 27 21:10	$\Pi^{\circ}0$		morning max el	3309 Apr 06 02:09	18° ¥ 53'11	27°38'53
asc. node	3308 Jun 01 17:55	10° Ⅱ 18'57			3309 Apr 15 11:57	$0^{\circ}\Upsilon$	
max. Earth dist.	3308 Jun 01 19:21	10° Ⅱ 26'43	1.32352 AU		3309 May 04 10:47	9° 8	
				morning set	3309 May 10 20:35	12° 8 12'24	
superior conj	3308 Jun 03 09:57	13° Ⅱ 56'41	0°17'29	max. Earth dist.	3309 May 15 22:43	22° 8 37'23	1.33044 AU
minimum elong	3308 Jun 03 09:09	13° Ⅲ 52'18	0°17'19				
evening rise	3308 Jun 10 07:14	28° ∏ 54'40		superior conj	3309 May 18 16:55	28° 8 28'54	
	3308 Jun 10 19:34	0ංම		minimum elong	3309 May 18 17:23	28° 8 31'28	0°09'32
	3308 Jun 27 15:33	0 $^{\circ}\Omega$		behind sun begin	3309 May 18 13:04	28° 8 08'20	
evening max el	3308 Jul 05 16:48	9° £ 30′56	24°33'39	behind sun end	3309 May 18 21:42	28° 8 54'36	
desc. node	3308 Jul 09 04:49	12° Ω 30'56			3309 May 19 09:53	0°II	
retrograde	3308 Jul 19 14:25	16° £ 32'39		asc. node	3309 May 19 14:58	0° Ⅱ 27'20	
evening set	3308 Jul 24 14:37	15° Ω 36'15	0.56050 ATT	evening rise	3309 May 25 19:00	13° Ⅱ 42'18	
min. Earth dist.	3308 Jul 30 03:52				3309 Jun 03 00:36	0°95	22057126
inferior conj	3308 Aug 01 22:20	10° £ 58'11		evening max el	3309 Jun 17 06:22	19°958'06	22-37-26
minimum elong morning rise	3308 Aug 01 20:03 3308 Aug 10 04:06	11° Ω 01'52 6° Ω 54'00	3 03 07	desc. node retrograde	3309 Jun 26 01:50 3309 Jun 30 15:13	25°\$50'25 26°\$37'50	
=	-	6° Ω 34'50		-	3309 Jul 04 02:55		
direct morning max el	3308 Aug 12 19:31 3308 Aug 22 04:44	10° Ω 57'31	19°26'58	evening set min. Earth dist.	3309 Jul 04 02:55 3309 Jul 11 15:17	26°©11'11 22°©50'17	0.55468 AU
asc. node	3308 Aug 22 04.44 3308 Aug 28 17:07	10 ∂ℓ 3/31 19° Ω 00'43	17 20 30	inferior conj	3309 Jul 11 13:17 3309 Jul 13 05:09	22 \$30 17 21°\$55'32	
asc. node	3308 Sep 04 02:05	0° m		minimum elong	3309 Jul 13 03:09 3309 Jul 12 21:41	21°933'32 22°906'21	4°20'00
morning set	3308 Sep 04 02:03	8° Mp 37'02		morning rise	3309 Jul 21 18:46	18°503'32	500
	2222 24p 00 11.10	₁ , 5 / 02		direct	3309 Jul 24 16:34	17°5643'34	
superior conj	3308 Sep 16 12:48	24° m/41'35	1°42'12	morning max el	3309 Aug 04 15:46	22°5948'57	20°41'11
minimum elong	3308 Sep 16 14:12	24° m/48'28	1°42'09	<i>Q</i>	3309 Aug 10 18:56	0°N	
3	1 -	3 - 7			5	= =	

asc. node	3309 Aug 15 14:11	7° Ω 33'47			3310 Jul 12 08:46	0°9	
	•			mamina may al			22012141
morning set	3309 Aug 23 18:24	23° Ω 17'10		morning max el	3310 Jul 17 15:20	3°955'16	22-1341
	3309 Aug 27 00:12	0° m)		asc. node	3310 Aug 02 11:14	26° © 39'54	
					3310 Aug 04 04:41	0°N	
superior conj	3309 Aug 31 06:39	8° m 49'07		morning set	3310 Aug 08 04:25	8° Ω 07'13	
minimum elong	3309 Aug 31 06:25	8° Mp 47'58	1°44'42			_	
max. Earth dist.	3309 Sep 05 02:23	18° m 27'39	1.35981 AU	superior conj	3310 Aug 15 08:38	23° Ω 20′32	1°40'10
evening rise	3309 Sep 09 03:08	26° Mp 08'22		minimum elong	3310 Aug 15 07:12	23° Ω 12′56	1°40'04
	3309 Sep 11 05:40	0∘ ত			3310 Aug 18 13:13	0° m y	
desc. node	3309 Sep 22 01:10	18° ≏ 15′00		max. Earth dist.	3310 Aug 18 18:03	0° Mp 24′49	1.34410 AU
	3309 Sep 29 22:34	0° M .		evening rise	3310 Aug 23 08:54	9° ™ 39'08	
evening max el	3309 Oct 14 18:15	17°M58'25	26°14'20		3310 Sep 03 16:54	0∘ ⊽	
retrograde	3309 Oct 27 10:50	25°ML08'27		desc. node	3310 Sep 08 22:12	8° ≙ 16'27	
evening set	3309 Nov 02 18:30	22°M32'24			3310 Sep 25 17:23	0° M.	
min. Earth dist.	3309 Nov 06 23:08	18°ML06'24	0.66520 AU	evening max el	3310 Sep 27 06:51	1° M 32'47	27°02'28
inferior conj	3309 Nov 08 11:30	16° M ₊14'24	-1°03'10	retrograde	3310 Oct 10 12:47	8° ™ 49'39	
minimum elong	3309 Nov 08 13:12	16°ML09'10	1°02'27	evening set	3310 Oct 17 08:24	6° ™ 07'42	
asc. node	3309 Nov 11 13:22	12°M41'35		min. Earth dist.	3310 Oct 21 06:24	2° M 17'47	0.65354 AU
morning rise	3309 Nov 14 08:24	10°M25'30		inferior conj	3310 Oct 23 06:45	0°M00'22	-2°03'19
direct	3309 Nov 17 10:09	9°MJ31'43		minimum elong	3310 Oct 23 10:10	29° £ 50'40	2°01'57
morning max el	3309 Nov 24 04:23	13°M15'32	18°45'08	Ü	3310 Oct 23 06:53	30° ₽ Ω	
. 8	3309 Dec 06 10:45	0° ∡ ¹		asc. node	3310 Oct 29 10:24	24° ♀ 27'02	
morning set	3309 Dec 15 10:46	14° × 707'40		morning rise	3310 Oct 29 12:46	24° £ 24'05	
desc. node	3309 Dec 19 10:10	19° × ⁷ 45'13		direct	3310 Nov 01 06:30	23° Ω 43'28	
dese. Hode	3309 Dec 15 00:24 3309 Dec 25 12:51	0° ਟ		morning max el	3310 Nov 07 18:41	27° ⊆ 13'39	18°10'20
max. Earth dist.	3309 Dec 25 12:31 3309 Dec 30 23:32	8° る 32'41	1.45149 AU	morning max cr	3310 Nov 10 05:42	0°M	10 10 20
max. Lattii dist.	3309 DCC 30 23.32	8 03241	1.43149 AU	morning set	3310 Nov 10 05:42 3310 Nov 26 06:30	24°M48'51	
aumorior comi	2200 Dag 21 19:21	9° ⋜ 47'14	1910/41	morning set		24 11€4631 0° √ 7	
superior conj	3309 Dec 31 18:31	9 347 14 9° る 12'14		J J.	3310 Nov 29 10:32	0 x . 10° x 26'24	
minimum elong	3309 Dec 31 09:36		1-18-42	desc. node	3310 Dec 05 21:27	10° X °26°24	
	3310 Jan 13 12:51	0° ≈			2210 D 10 22 17	100 707101	0022140
evening rise	3310 Jan 16 06:39	4°≈23'49	0.0	superior conj	3310 Dec 10 22:17	18° ₹ 27'21	
greatest brilliancy	3310 Jan 23 06:53	15°≈40'12	-0.9m	minimum elong	3310 Dec 10 17:59	18° ₹ 10'22	
	3310 Feb 01 15:51	0° ∀		max. Earth dist.	3310 Dec 13 19:04	22° ₹ 58'36	1.45116 AU
evening max el	3310 Feb 06 12:35	5° ¥ 58'01	18°47'38		3310 Dec 18 06:36	0° ろ	
asc. node	3310 Feb 07 12:40	6° ¥ 56′04		evening rise	3310 Dec 27 06:42	14° る 01'20	
retrograde	3310 Feb 13 05:40	9°) 43′05			3311 Jan 06 14:48	0° ≈	
evening set	3310 Feb 16 11:13	8°) 43′18		greatest brilliancy	3311 Jan 08 17:50	3°≈13'42	-0.7m
inferior conj	3310 Feb 22 03:25	3° ¥ 02'41	3°32'09	evening max el	3311 Jan 20 19:59	19° ≈ 28'43	19°33'42
minimum elong	3310 Feb 22 02:01	3° ∺ 06'59		asc. node	3311 Jan 25 09:41	23°≈01'13	
min. Earth dist.	3310 Feb 23 22:15	0° ¥ 51′05	0.65372 AU	retrograde	3311 Jan 28 02:38	23° ≈ 40'45	
	3310 Feb 24 15:25	30°R ≈		evening set	3311 Jan 31 15:29	22° ≈ 27'33	
morning rise	3310 Feb 27 16:25	26° ≈ 51'12		inferior conj	3311 Feb 06 03:01	16° ≈ 31'34	3°12'05
direct	3310 Mar 06 07:30	23° ≈ 59'53		minimum elong	3311 Feb 06 00:46	16° ≈ 38'55	3°11'40
desc. node	3310 Mar 16 23:36	29° ≈ 22'05		min. Earth dist.	3311 Feb 07 06:57	14° ≈ 59'55	0.66608 AU
	3310 Mar 17 16:22	0° ∀		morning rise	3311 Feb 11 09:50	10° ≈ 18′16	
morning max el	3310 Mar 19 11:52	1°) 45′04	26°54'25	direct	3311 Feb 17 13:34	7° ≈ 33'57	
	3310 Apr 09 15:21	0 ° Υ		morning max el	3311 Mar 01 21:12	14° ≈ 53'46	25°45'13
morning set	3310 Apr 24 06:53	25° Ƴ 38'46		desc. node	3311 Mar 03 20:37	16° ≈ 58′29	
	3310 Apr 26 12:42	0° 8			3311 Mar 14 06:22	0°) €	
max. Earth dist.	3310 Apr 28 16:04	4° 8 15'34	1.34196 AU		3311 Apr 02 11:07	0° Y	
				morning set	3311 Apr 07 02:50	8° Ƴ 19'02	
superior conj	3310 May 02 18:23	12° 8 39'48	-0°38'10	max. Earth dist.	3311 Apr 10 22:08	15° Y 26′12	1.35808 AU
minimum elong	3310 May 02 20:22	12° 8 50'09	0°37'45		•		
asc. node	3310 May 06 11:59	20° 8 30'59		superior conj	3311 Apr 16 11:52	26° Y 22'28	-1°06'40
evening rise	3310 May 10 05:03	28° 8 19'45		minimum elong	3311 Apr 16 15:21	26° Ƴ 39'57	
	3310 May 11 00:22	0°II		8	3311 Apr 18 06:52	0°8	
	3310 May 29 11:52	0°©		asc. node	3311 Apr 23 09:01	10° 8 26'03	
evening max el	3310 May 30 01:56	0°935'02	21°24'46	evening rise	3311 Apr 24 11:25	12° 8 41'06	
retrograde	3310 Jun 11 05:21	6°932'42	21 27 70	0,0111115 113C	3311 May 03 14:23	0° Ⅱ	
desc. node	3310 Jun 12 22:51	6°925'48		evening max el	3311 May 03 14.23 3311 May 12 08:40	11° Ⅱ 45'35	20°06'23
evening set	3310 Jun 12 22.31 3310 Jun 13 14:19	6°919'49		retrograde	3311 May 12 08:40 3311 May 22 19:38	11 Ц 43 33 16° Ц 50'44	20 00 23
•			2051112	•	•	16°Щ50'44 16°Щ40'34	
inferior conj	3310 Jun 22 23:45	2°920'15		evening set	3311 May 24 19:13		
minimum elong	3310 Jun 22 16:14	2°930'46		desc. node	3311 May 30 19:51	14° Ⅱ 24'50	0052107
min. Earth dist.	3310 Jun 23 02:36	2°916'17	0.54867 AU	inferior conj	3311 Jun 02 19:54	12° Ⅱ 41'14	
	3310 Jun 27 09:28	30°RⅡ		minimum elong	3311 Jun 02 17:25	12° Ⅱ 44'56	
morning rise	3310 Jul 01 18:50	28° I I24'08		min. Earth dist.	3311 Jun 04 15:10	11° Ⅱ 36'44	0.55224 AU
direct	3310 Jul 05 02:55	27° Ⅱ 59'56		morning rise	3311 Jun 11 14:00	8° Ⅱ 21'35	

direct	3311 Jun 15 15:11	7° Ⅱ 45'56		morning rise	3312 May 21 14:56	18° 8 33'48	
morning max el	3311 Jun 29 07:13	14° Ⅱ 28′38	23°56'13	direct	3312 May 26 15:25	17° 8 34'54	
	3311 Jul 11 10:14	0°ಅ		morning max el	3312 Jun 09 21:36	24° 8 54'05	25°34'49
asc. node	3311 Jul 20 08:16	16°©10'34			3312 Jun 14 14:49	Π °0	
morning set	3311 Jul 23 16:02	23° © 01'58			3312 Jul 03 07:00	0 \circ \odot	
	3311 Jul 26 22:06	$0^{\circ}\Omega$		asc. node	3312 Jul 06 05:19	5° © 58'58	
				morning set	3312 Jul 07 03:38	7° © 56'13	
superior conj	3311 Jul 30 16:01	8° Ω 07'27	1°29'48				
minimum elong	3311 Jul 30 13:52	7° Ω 55'48	1°29'33	superior conj	3312 Jul 14 02:35	23° © 02'44	1°14'31
max. Earth dist.	3311 Aug 01 18:48	12° Ω 40′22	1.33234 AU	minimum elong	3312 Jul 14 00:13	22°5549'47	1°14'09
evening rise	3311 Aug 07 02:20	23° Ω 43'31		max. Earth dist.	3312 Jul 15 02:30	25° © 13'43	1.32466 AU
	3311 Aug 10 06:44	0° m			3312 Jul 17 07:09	$0 {\circ} \Omega$	
desc. node	3311 Aug 26 19:12	27° m 49'21		evening rise	3312 Jul 21 04:02	8° Ω 11'42	
	3311 Aug 28 07:57	0∘ ⊽			3312 Aug 01 16:39	0° ™	
evening max el	3311 Sep 09 18:16	14° ≙ 48'09	27°25'20	desc. node	3312 Aug 12 16:12	16°M/41'58	
retrograde	3311 Sep 23 08:38	22° ≏ 05'22		evening max el	3312 Aug 22 02:17	27° My 31'46	27°17'29
evening set	3311 Sep 30 12:07	19° ≙ 26′24			3312 Aug 24 22:00	0∘ ⊽	
min. Earth dist.	3311 Oct 04 04:37	16° ≏ 10′28	0.63841 AU	retrograde	3312 Sep 04 21:59	4° ≏ 46'40	
inferior conj	3311 Oct 06 17:26	13° ≏ 34'04	-3°03'14	evening set	3312 Sep 12 02:07	2° ≏ 22'45	
minimum elong	3311 Oct 06 22:23	13° ≏ 21'17	3°01'32		3312 Sep 15 04:24	30°R M⊅	
morning rise	3311 Oct 13 09:54	8° ₤ 13'52		min. Earth dist.	3312 Sep 15 16:31	29° m 33'35	0.62014 AU
direct	3311 Oct 15 22:05	7° ≏ 42'48		inferior conj	3312 Sep 18 16:35	26° Mp 48′49	-3°58'50
asc. node	3311 Oct 16 07:28	7° ≏ 43'34		minimum elong	3312 Sep 18 22:20	26° Mp35′38	3°57'20
morning max el	3311 Oct 22 11:07	11° ≏ 08'04	17°52'46	morning rise	3312 Sep 25 20:15	21° m /47'58	
	3311 Nov 04 06:12	0° M.		direct	3312 Sep 28 05:32	21°M 23'17	
morning set	3311 Nov 08 05:10	6°M48′10		asc. node	3312 Oct 02 04:31	22° m 33'28	
				morning max el	3312 Oct 05 02:42	24° m 52'05	17°53'16
superior conj	3311 Nov 20 19:53	28°M02'45	0°13'19		3312 Oct 09 08:07	0∘ ⊽	
minimum elong	3311 Nov 20 21:21	28°M08'42	0°13'07	morning set	3312 Oct 21 00:37	19° ≙ 47'01	
behind sun begin	3311 Nov 20 15:32	27°M44'55			3312 Oct 26 17:10	0° M	
behind sun end	3311 Nov 21 03:09	28°M32'26					
	3311 Nov 22 00:39	0° ∡ ¹		superior conj	3312 Oct 31 20:14	8°M57'22	0°52'25
desc. node	3311 Nov 22 18:28	1° ⋌ 12'18		minimum elong	3312 Nov 01 00:22	9°M15'03	0°51'52
max. Earth dist.	3311 Nov 26 13:24	7° ∡ 17'31	1.44357 AU	max. Earth dist.	3312 Nov 08 03:29	21°M10'57	1.42973 AU
evening rise	3311 Dec 06 17:01	23° ҂ 10′03		desc. node	3312 Nov 08 15:30	21°M59'58	
	3311 Dec 11 04:14	0°ರ			3312 Nov 13 15:16	0° ∡ ¹	
	3312 Jan 01 05:32	0° ≈		evening rise	3312 Nov 15 05:19	2° ҂ 29'35	
evening max el	3312 Jan 03 22:08	2° ≈ 59'57	20°34'26		3312 Dec 03 16:13	8°0	
retrograde	3312 Jan 12 00:45	7° ≈ 46'56		evening max el	3312 Dec 16 18:41	16° る 32'06	21°46'31
asc. node	3312 Jan 12 06:43	7° ≈ 46'36		retrograde	3312 Dec 25 21:57	21° る 58'19	
evening set	3312 Jan 15 22:22	6° ≈ 19'15		asc. node	3312 Dec 29 03:45	21° る 01'16	
inferior conj	3312 Jan 21 07:23	0° ≈ 10'35	2°41'46	evening set	3312 Dec 30 06:06	20°る15'04	
minimum elong	3312 Jan 21 04:51	0° ≈ 19'14	2°41'05	inferior conj	3313 Jan 04 14:24	13° る 57'09	2°03'10
	3312 Jan 21 10:29	30°Ŗ₹		minimum elong	3313 Jan 04 12:05	14° る 05'14	2°02'22
min. Earth dist.	3312 Jan 21 21:59	29° る 20'45	0.67428 AU	min. Earth dist.	3313 Jan 04 17:07	13° る 47'44	0.67860 AU
morning rise	3312 Jan 26 11:10	23° る 57'11		morning rise	3313 Jan 09 17:54	7° る 45'16	
direct	3312 Feb 01 00:51	21° る 28'59		direct	3313 Jan 14 16:40	5° ප 38'12	
morning max el	3312 Feb 12 05:47	28° る 10'19	24°21'05	morning max el	3313 Jan 24 15:29	11° る 32'01	22°52'05
	3312 Feb 13 23:36	0° ≈		desc. node	3313 Feb 04 14:42	24° る 51'39	
desc. node	3312 Feb 18 17:39	5° ≈ 33'56			3313 Feb 08 07:32	0° ≈	
	3312 Mar 06 23:53	0° ∀			3313 Feb 27 20:19	0° ∀	
morning set	3312 Mar 19 02:55	19° ¥ 57'46		morning set	3313 Feb 28 00:57	0° ₩ 19'11	
max. Earth dist.	3312 Mar 22 19:22	26°) 30′11	1.37791 AU	max. Earth dist.	3313 Mar 04 14:30	8° ₩ 00'39	1.39954 AU
	3312 Mar 24 17:24	0 ° $\mathbf{\Upsilon}$					
				superior conj	3313 Mar 12 08:33	21°) 44′50	
superior conj	3312 Mar 29 18:00	9° Y 27'38		minimum elong	3313 Mar 12 12:45	22° 米 04'03	1°53'54
minimum elong	3312 Mar 29 22:30		1°32'28		3313 Mar 16 19:14	$0^{\circ}\mathbf{\Upsilon}$	
evening rise	3312 Apr 07 11:38	26° Ƴ 38'56		evening rise	3313 Mar 22 02:39	10° Y 05′13	
asc. node	3312 Apr 09 06:02	0° 8 07'41		asc. node	3313 Mar 27 03:04	19° Ƴ 30′28	
	3312 Apr 09 04:28	0°8			3313 Apr 02 09:14	0°8	
evening max el	3312 Apr 24 03:10		19°07'11	evening max el	3313 Apr 07 07:03	6° 8 04'35	18°28'16
retrograde	3312 May 02 22:38	27° 8 54'09		retrograde	3313 Apr 14 20:07	9° 8 47'50	
evening set	3312 May 05 00:31	27° 8 40'50		evening set	3313 Apr 17 04:21	9° 8 27'24	
inferior conj	3312 May 13 07:01	23° 8 28'36	0°58'30	inferior conj	3313 Apr 24 15:14	4° 8 56'05	
minimum elong	3312 May 13 09:18	23° 8 24'42		minimum elong	3313 Apr 24 19:02	4° 8 48'29	
min. Earth dist.	3312 May 16 06:23	21° 8 27'12	0.56467 AU	min. Earth dist.	3313 Apr 28 01:41	2° 8 12'22	0.58346 AU
desc. node	3312 May 16 16:51	21° 8 10'10			3313 May 01 07:55	30° ₹Ƴ	

morning rise	3313 May 02 06:39	29° Ƴ 29'07		morning rise	3314 Apr 13 17:38	11° Ƴ 13'56	
desc. node	3313 May 03 13:53	28° Y 53'28		direct	3314 Apr 20 09:12	9° Y 05'51	
direct	3313 May 08 06:15	27° Y 56'21		desc. node	3314 Apr 20 10:55	9° Ƴ 05'52	
	3313 May 15 09:31	0° ႘		morning max el	3314 May 04 15:51	16° Ƴ 59'15	27°40'25
morning max el	3313 May 22 15:40	5° 8 38'10	26°53'34	-	3314 May 15 09:59	0° ႘	
•	3313 Jun 09 15:16	$\Pi^{\circ}0$			3314 Jun 02 05:03	\mathbf{u}°	
morning set	3313 Jun 21 13:32	22° Ⅱ 43'38		morning set	3314 Jun 05 20:00	7° Ⅱ 18'36	
asc. node	3313 Jun 23 02:21	25° Ⅱ 58'46		asc. node	3314 Jun 09 23:25	16° Ⅱ 05'21	
	3313 Jun 24 23:05	0 \circ \odot		max. Earth dist.	3314 Jun 12 01:16	20° Ⅲ 36'43	1.32148 AU
superior conj	3313 Jun 28 14:22	7° 9 59'05	0°55'04	superior conj	3314 Jun 13 01:42	22° Ⅱ 50'45	0°32'06
minimum elong	3313 Jun 28 12:17	7° © 47'32	0°54'40	minimum elong	3314 Jun 13 00:18	22° Ⅱ 43'06	0°31'48
max. Earth dist.	3313 Jun 28 13:50	7° © 56'04	1.32105 AU		3314 Jun 16 07:51	0ංම	
evening rise	3313 Jul 05 11:15	22° © 54'22		evening rise	3314 Jun 19 21:47	7°9544'24	
	3313 Jul 08 22:02	$0^{\circ}\Omega$			3314 Jul 01 11:23	0 $^{\circ}$ Ω	
	3313 Jul 26 20:34	0° m		evening max el	3314 Jul 16 23:31	20° Ω 44'50	25°24'52
desc. node	3313 Jul 30 13:13	4° Tp 36'46		desc. node	3314 Jul 17 10:13	21° Ω 10′04	
evening max el	3313 Aug 04 04:29	9° Tp 32'00	26°36'24	retrograde	3314 Jul 30 23:08	27° Ω 50'57	
retrograde	3313 Aug 18 03:35	16° Mp 43'23		evening set	3314 Aug 05 18:11	26° Ω 33'00	0.57045.441
evening set	3313 Aug 24 21:40	14° Mp 47'54	0.50070 444	min. Earth dist.	3314 Aug 10 11:28		0.57945 AU
min. Earth dist.	3313 Aug 28 18:12	12° mp 11'50	0.59978 AU	inferior conj	3314 Aug 13 14:25	21° Ω 42'12	
inferior conj	3313 Sep 01 00:43	9° m/34'46		minimum elong	3314 Aug 13 15:25	21° Ω 40'27	5°05'59
minimum elong	3313 Sep 01 05:29	9° m 25'11	4°42'41	morning rise	3314 Aug 21 15:00	17° Ω 25'48 17° Ω 06'17	
morning rise	3313 Sep 08 15:22	4° Mp 55'47		direct	3314 Aug 24 03:38	. •••	10052141
direct	3313 Sep 11 00:47	4° Mp 34'45	10012107	morning max el	3314 Sep 01 18:03		18°53'41
morning max el asc. node	3313 Sep 18 14:08 3313 Sep 19 01:34	8° Mp 16'06 8° Mp 44'29	18°13'06	asc. node	3314 Sep 05 22:38 3314 Sep 08 15:27	26° Ω 01'28 0° m	
asc. node	3313 Oct 02 14:42	ა iiį/44 29 0° Ω		morning set	3314 Sep 18 07:35	0 ių 17° Mo 39'05	
morning set	3313 Oct 02 14.42 3313 Oct 04 10:55	ა 2 28'10		morning set	3314 Sep 18 07.33 3314 Sep 24 14:38	0₀ ʊ	
morning set	3313 001 04 10.33	J — 2010			3314 Sep 24 14.36	· –	
superior conj	3313 Oct 13 21:36	21° ♀ 04'53	1°20'12	superior conj	3314 Sep 26 18:41	4° £ 10′22	1°36'58
minimum elong	3313 Oct 14 01:33	21° £ 22'44	1°19'47	minimum elong	3314 Sep 26 21:07	4° £ 21'57	1°36'48
	3313 Oct 18 22:16	0°M		max. Earth dist.	3314 Oct 03 17:14	16° £ 59'26	1.39077 AU
max. Earth dist.	3313 Oct 21 12:14	4°M25'56	1.41135 AU	evening rise	3314 Oct 07 14:53	23° ≏ 48'47	
evening rise	3313 Oct 26 10:26	12°M37'02		<i>8</i>	3314 Oct 11 07:13	0° M	
desc. node	3313 Oct 26 12:33	12°M45'37		desc. node	3314 Oct 13 09:35	3°M25'33	
	3313 Nov 06 13:56	0° ∡ ¹			3314 Oct 31 09:24	0° ∡ ¹	
	3313 Nov 29 07:49	8°0		evening max el	3314 Nov 11 23:53	13° ∡ ¹46'13	24°24'47
evening max el	3313 Nov 29 10:40	0° ට 07'10	23°05'20	retrograde	3314 Nov 23 07:34	20° ∡ ¹23'21	
retrograde	3313 Dec 09 16:40	6° ප 11'43		evening set	3314 Nov 28 17:35	18° ₰ 07'42	
evening set	3313 Dec 14 13:02	4° る 12'13		asc. node	3314 Dec 02 21:51	13° ∡ ¹26′23	
asc. node	3313 Dec 16 00:47	2° る 46'34		min. Earth dist.	3314 Dec 03 09:54	12° ∡ ¹46′25	0.67657 AU
	3313 Dec 18 07:38	30°₽ ⋌ ¹		inferior conj	3314 Dec 04 04:49	11° ∡ °43′00	0°26'26
inferior conj	3313 Dec 19 22:09	27° ∡ ⁴48'49	1°17'41	minimum elong	3314 Dec 04 04:11	11° ∡ ¹45′08	0°26'09
minimum elong	3313 Dec 19 20:28	27° ≯ ′54'38	1°17'01	morning rise	3314 Dec 09 14:50	5° ҂ ¹40'20	
min. Earth dist.	3313 Dec 19 13:54	28° ≯ 17'16	0.67929 AU	direct	3314 Dec 13 09:53	4° ∡ 17'59	
morning rise	3313 Dec 25 03:48	21° ∡ ¹40'27		morning max el	3314 Dec 21 03:34	8° ≯ 43'00	20°12'54
direct	3313 Dec 29 12:07	19° ∡ 56′12			3315 Jan 06 03:18	0° ਰ	
morning max el	3314 Jan 07 05:48	25° ₹ 01'54	21°27'15	desc. node	3315 Jan 09 08:48	4°る49'51	
	3314 Jan 11 15:52	0°ਰ 143 ਰ 233453		morning set	3315 Jan 17 15:30	17° る 28'12	
desc. node	3314 Jan 22 11:45	14° る 39'53		D d E c	3315 Jan 25 15:32	0°≈	1 42725 444
. ,	3314 Feb 01 18:38	0° ≈		max. Earth dist.	3315 Jan 27 23:17	3° ≈ 42'21	1.43725 AU
morning set	3314 Feb 07 18:03	9°≈18'41 20°≈23'53	1 42025 ATT		2215 E-k 02 10.11	1200 010111	2802150
max. Earth dist.	3314 Feb 14 14:49 3314 Feb 20 08:03	20°≈23'53 0° \	1.42025 AU	superior conj	3315 Feb 02 19:11 3315 Feb 02 15:18	13°≈10'11 12°≈54'13	
	3314 Feb 20 08.03	0 X		minimum elong		12 ≈ 34 13 0° ∺	2 0241
superior conj	3314 Feb 22 02:29	3°) €02'33	-2°05'55	evening rise	3315 Feb 12 18:54 3315 Feb 15 13:37	0° X 4° X 48'22	
minimum elong	3314 Feb 22 02:29 3314 Feb 22 04:00	3° ★ 0233		asc. node	3315 Feb 13 13.37 3315 Feb 28 21:09	4 X 48 22 26° ¥ 51'39	
evening rise	3314 Feb 22 04:00 3314 Mar 05 04:45	22° ¥ 51'30	2 00 00	ase. Houc	3315 Mar 03 06:04	20 π 3139	
evening fise	3314 Mar 09 03:11	22 γ 3130		evening max el	3315 Mar 05 05:22	2° Υ 11'24	18°09'37
asc. node	3314 Mar 14 00:07	8° Υ 28'05		retrograde	3315 Mar 11 16:09	5° Υ 34'53	10 0/3/
evening max el	3314 Mar 21 16:55	18° Y 59'30	18°09'18	evening set	3315 Mar 14 12:24	4° Υ 53'55	
retrograde	3314 Mar 28 11:21	22° Υ 25'15	10 07 10	c.c.ing set	3315 Mar 20 10:34	30° ₹	
evening set	3314 Mar 31 01:55	21° Y 55'13		inferior conj	3315 Mar 20 17:36	29°) 41'24	3°35'25
inferior conj	3314 Apr 06 20:00	17° Υ 03'02	3°12'08	minimum elong	3315 Mar 20 18:38	29°) 38'41	3°35'22
minimum elong	3314 Apr 06 22:50	16°Υ56'25	3°11'39	min. Earth dist.	3315 Mar 23 12:33	26°) (45'14	0.62620 AU
min. Earth dist.	3314 Apr 10 02:59	14° Υ 00'48	0.60505 AU	morning rise	3315 Mar 26 23:39	23°) (39'07	
	-r v=.e/	. 55 .6				. , , , , , , ,	

		.,					
direct	3315 Apr 02 21:23	21°) €03'51		inferior conj	3316 Mar 03 04:04	12°) (44′27	
desc. node	3315 Apr 07 07:57	22°) (00'34		minimum elong	3316 Mar 03 03:25		
morning max el	3315 Apr 16 21:41	29°) €01'15	27°50'04	min. Earth dist.	3316 Mar 05 07:46	10°) 13′02	0.64473 AU
	3315 Apr 17 20:44	0° Υ		morning rise	3316 Mar 08 22:10	6°) (34′58	
_	3315 May 09 07:13	0° 8		direct	3316 Mar 15 17:26	3°) 45′37	
morning set	3315 May 20 20:51	21° 8 33'26		desc. node	3316 Mar 24 05:00	7° ℋ 11'06	
	3315 May 24 22:40	0°II		morning max el	3316 Mar 29 07:02	11°) € 38′54	27°23'39
max. Earth dist.	3315 May 26 08:48	3° Ⅱ 01'43	1.32597 AU		3316 Apr 12 21:11	0° Υ	
asc. node	3315 May 27 20:28	6° Ⅱ 13'43			3316 Apr 30 18:53	0°8	
		_		morning set	3316 May 03 13:27	5° 8 20'15	
superior conj	3315 May 28 10:44	7° ∏ 30′58	0°06'16	max. Earth dist.	3316 May 08 08:29	14° 8 59'30	1.33478 AU
minimum elong	3315 May 28 10:26	7° Ⅱ 29'21	0°06'12				
behind sun begin	3315 May 28 05:36	7° Ⅱ 03'13		superior conj	3316 May 11 15:34	21° 8 53'59	
behind sun end	3315 May 28 15:15	7° Ⅱ 55'31		minimum elong	3316 May 11 16:40	21° 8 59'49	0°21'24
evening rise	3315 Jun 04 09:36	22° ∏ 34'10		asc. node	3316 May 13 17:29	26° 8 19'57	
	3315 Jun 07 23:36	0			3316 May 15 10:35	Π °0	
	3315 Jun 27 05:18	0 $^{\circ}$ Ω		evening rise	3316 May 18 20:51	7° Ⅱ 17'36	
evening max el	3315 Jun 28 13:09	1° Ω 20′04	23°53'11		3316 May 30 23:06	0	
desc. node	3315 Jul 04 07:13	5° Ω 50'19		evening max el	3316 Jun 09 04:06	11° 5 346'04	22°16'44
retrograde	3315 Jul 12 06:37	8° Ω 14'06		desc. node	3316 Jun 20 04:13	18° © 02'17	
evening set	3315 Jul 16 15:31	7° Ω 32'00		retrograde	3316 Jun 22 02:21	18° © 10'48	
min. Earth dist.	3315 Jul 22 23:31	4° Ω 29'46	0.56205 AU	evening set	3316 Jun 25 00:51	17° © 51'41	
inferior conj	3315 Jul 25 07:49	3° Ω 04'03	-4°51'43	min. Earth dist.	3316 Jul 03 10:18	14° © 14'32	0.55096 AU
minimum elong	3315 Jul 25 03:01	3° Ω 11'24	4°51'08	inferior conj	3316 Jul 04 08:00	13° © 43'57	-3°48'31
	3315 Jul 30 23:58	30° ₹ 5		minimum elong	3316 Jul 03 23:41	13° © 55'40	3°46'22
morning rise	3315 Aug 02 17:06	29° 5 06'37		morning rise	3316 Jul 13 00:28	9° 5 53'04	
direct	3315 Aug 05 11:14	28°547'12		direct	3316 Jul 16 01:56	9° © 32'01	
	3315 Aug 10 14:44	$0^{\circ}\Omega$		morning max el	3316 Jul 27 17:38	14° © 57'46	21°18'46
morning max el	3315 Aug 15 11:40	3° Ω 26′11	19°55'58	•	3316 Aug 08 00:15	$0^{\circ}\Omega$	
asc. node	3315 Aug 23 19:41	14° Ω 10′08		asc. node	3316 Aug 09 16:44	2° Ω 58'06	
	3315 Sep 01 09:24	o° mp		morning set	3316 Aug 16 19:38	16° Ω 55'44	
morning set	3315 Sep 02 11:20	2° Mp 10'45		C	3316 Aug 23 01:23	0° m/	
C	•				Č	•	
superior conj	3315 Sep 10 06:14	17° m 59'03	1°44'13	superior conj	3316 Aug 24 03:56	2° Mp 18'03	1°43'34
minimum elong	3315 Sep 10 06:54	18° Mp 02'26	1°44'12	minimum elong	3316 Aug 24 03:08	2° mp 13'54	1°43'32
max. Earth dist.	3315 Sep 15 22:25	29° m 01'12	1.37046 AU	max. Earth dist.	3316 Aug 28 08:59	10° m 52'41	1.35262 AU
	3315 Sep 16 10:55	0° ⊽		evening rise	3316 Sep 01 14:57	19° m 08'51	
evening rise	3315 Sep 19 17:44	6° £ 02'48			3316 Sep 07 13:50	0∘ ত	
desc. node	3315 Sep 30 06:36	23° ≏ 55'18		desc. node	3316 Sep 16 03:35	14° ≏ 08'58	
	3315 Oct 04 04:25	o° m ₊			3316 Sep 27 06:37	o° m ₊	
evening max el	3315 Oct 25 12:08	27° M 27'59	25°37'56	evening max el	3316 Oct 07 00:25	11° M .06'41	26°37'20
•	3315 Oct 28 07:04	0° ∡ ¹		retrograde	3316 Oct 19 23:18	18°M21'08	
retrograde	3315 Nov 06 17:59	4° ∡ ¹28'52		evening set	3316 Oct 26 12:30	15°M41'18	
evening set	3315 Nov 12 18:04	1° ∡ ¹58'55		min. Earth dist.	3316 Oct 30 14:06	11°M30'59	0.66070 AU
•	3315 Nov 14 18:42	30°RML		inferior conj	3316 Nov 01 07:37	9°M27'13	-1°28'32
min. Earth dist.	3315 Nov 17 02:44	27° M 12'39	0.67039 AU	minimum elong	3316 Nov 01 10:02	9°M20'00	1°27'31
inferior conj	3315 Nov 18 08:38	25°M37'13	-0°29'25	asc. node	3316 Nov 05 15:55	4°M52'18	
minimum elong	3315 Nov 18 09:24	25°M34'47	0°29'05	morning rise	3316 Nov 07 08:14	3°M43'35	
asc. node	3315 Nov 19 18:52	23°M49'49		direct	3316 Nov 10 06:13	2°M56'00	
morning rise	3315 Nov 24 01:03	19°M42'46		morning max el	3316 Nov 16 21:07	6°M32'52	18°28'17
direct	3315 Nov 27 08:32	18° M 39'37		C	3316 Dec 03 04:33	0° ∡ ¹	
morning max el	3315 Dec 04 09:13	22°M35'08	19°12'42	morning set	3316 Dec 06 19:55	5° х 50′06	
Ü	3315 Dec 10 11:29	0° ∡ ¹		desc. node	3316 Dec 13 02:53	15° ₹ 52'20	
desc. node	3315 Dec 27 05:52	25° ₹ 15'50			3316 Dec 22 01:47	0° ට	
morning set	3315 Dec 27 17:24	26° х 00′39				• •	
	3315 Dec 30 06:57	0°ප		superior conj	3316 Dec 22 13:14	0° る 44'54	-1°01'09
max. Earth dist.	3316 Jan 10 14:28		1.44833 AU	minimum elong	3316 Dec 22 05:42	0°る15'22	
Julian William	10 11.20	C 12 03		max. Earth dist.	3316 Dec 23 08:53	2° ප 02'02	1.45227 AU
superior conj	3316 Jan 13 10:59	22° る 12'59	-1°40'48	evening rise	3317 Jan 07 13:31	25° ප 55'15	
minimum elong	3316 Jan 13 02:16	22 ර 1237 21° ර 38'25		0.0mig 1150	3317 Jan 10 03:25	0°≈	
Clong	3316 Jan 18 07:59	21 3 3623	1 10 02	greatest brilliancy	3317 Jan 17 06:07	0 ∞ 11°≈12'11	-0.8m
evening rise	3316 Jan 28 01:15	0 ∞ 15°≈50'15		evening max el	3317 Jan 30 03:15	29°≈02'21	19°05'14
Svening 1150	3316 Feb 05 15:53	0° X		Croning max of	3317 Jan 30 03:13	29 ≈ 02 21	17 03 17
asc. node	3316 Feb 15 18:10	14°) 31'32		asc. node	3317 Jan 31 02.36 3317 Feb 01 15:11	0 X 1° ¥ 15'10	
evening max el	3316 Feb 16 17:37	15°) 34'02	18°28'32	retrograde	3317 Feb 01 13:11 3317 Feb 06 01:27	2° H 58'12	
retrograde	3316 Feb 23 06:07	13 X 34 02 19° X 08'14	10 20 32	evening set	3317 Feb 06 01.27 3317 Feb 09 09:51	1° H 52'58	
evening set	3316 Feb 25 06:07 3316 Feb 26 08:02	18° X 15'35		evening set	3317 Feb	1°π3238 30°R≈	
evening set	33101°CU 20 U8.U2	10 M1333			331/170 11 13.30	ου Γ⁄~	

inforior coni	3317 Feb 14 23:45	26°≈05'24	2925102	aga mada	2210 Ion 10 12:12	1690047151	
inferior conj				asc. node	3318 Jan 19 12:13	16°≈47'51	
minimum elong	3317 Feb 14 21:56	26°≈11'11	3°24'48	retrograde	3318 Jan 20 23:08	16°≈59'24	
min. Earth dist.	3317 Feb 16 12:06	24°≈10'07	0.65946 AU	evening set	3318 Jan 24 15:26	15°≈40'23	2000121
morning rise	3317 Feb 20 09:41	19° ≈ 52'35		inferior conj	3318 Jan 30 01:41	9° ≈ 38'50	3°00'21
direct	3317 Feb 26 20:17	17°≈02'50		minimum elong	3318 Jan 29 23:15	9° ≈ 46'57	2°59'47
desc. node	3317 Mar 11 02:03	24°≈02'43		min. Earth dist.	3318 Jan 30 23:51	8° ≈ 24'37	0.67008 AU
morning max el	3317 Mar 11 16:59	24° ≈ 39'52	26°27'27	morning rise	3318 Feb 04 06:50	3° ≈ 25′08	
	3317 Mar 16 12:55	0° ∀		direct	3318 Feb 10 04:52	0° ≈ 46'29	
	3317 Apr 06 07:40	0 ° $\mathbf{\Upsilon}$		morning max el	3318 Feb 22 01:45	7° ≈ 51'53	25°10'30
morning set	3317 Apr 16 18:16	18° Y 28'50		desc. node	3318 Feb 25 23:05	12° ≈ 06′26	
max. Earth dist.	3317 Apr 20 20:59	26° Y 24'13	1.34821 AU		3318 Mar 11 09:26	0° ∀	
	3317 Apr 22 16:24	9° 8			3318 Mar 29 20:30	0 ° Υ	
				morning set	3318 Mar 30 06:29	0° Ƴ 44'41	
superior conj	3317 Apr 25 14:00	5° 8 53'35	-0°50'22	max. Earth dist.	3318 Apr 02 22:12	7° Y 25'57	1.36609 AU
minimum elong	3317 Apr 25 16:39	6° 8 07'10	0°49'52				
asc. node	3317 Apr 30 14:30	16° 8 20'15		superior conj	3318 Apr 09 03:06	19° Ƴ 21'16	-1°18'17
evening rise	3317 May 03 05:37	21° 8 48'45		minimum elong	3318 Apr 09 07:06	19° Ƴ 41'03	1°17'40
	3317 May 07 06:51	$\Pi^{\circ}0$		_	3318 Apr 14 10:26	0° ႘	
evening max el	3317 May 22 04:02	22° Ⅲ 35′21	20°49'21	evening rise	3318 Apr 17 09:40	6° 8 00'28	
retrograde	3317 Jun 02 15:26	28° Ⅱ 11'33		asc. node	3318 Apr 17 11:32	6° 8 09'51	
evening set	3317 Jun 04 18:02	28° Ⅱ 00'56			3318 May 01 02:36	0°II	
desc. node	3317 Jun 07 01:14	27° I I26'47		evening max el	3318 May 04 16:04	4° ∏ 03'29	19°38'50
inferior conj	3317 Jun 14 01:29	24° I I03'27	-2°02'34	retrograde	3318 May 14 09:23	8°П46'26	17 3030
minimum elong	3317 Jun 13 19:45	24° I I1'36		evening set	3318 May 16 09:03	8° Д 35'30	
min. Earth dist.	3317 Jun 13 19:43 3317 Jun 14 22:23	23° I I33'41	0.54888 AU	desc. node	3318 May 24 22:17	4° ∏ 39'18	
		19° ∏ 59'11	0.54000 AU		•	4° Π 39'18	0902114
morning rise	3317 Jun 22 21:07			inferior conj	3318 May 25 02:41		
direct	3317 Jun 26 11:13	19° Ⅱ 31'26	22057152	minimum elong	3318 May 25 02:32	4° Ⅱ 32'36	0°03'11
morning max el	3317 Jul 09 13:29	25° ∏ 48'38	22°56'52	transit middle	3318 May 25 02:32	4° Ⅱ 32'36	0°03'11
_	3317 Jul 13 12:24	0°©		transit begin	3318 May 24 22:41	4° ∏ 38'39	
asc. node	3317 Jul 27 13:47	22°9515'32		transit end	3318 May 25 06:23	4° Ⅱ 26'33	
_	3317 Jul 31 09:48	0 ° Ω		min. Earth dist.	3318 May 27 12:09	3° Ⅱ 02'22	0.55653 AU
morning set	3317 Aug 01 06:33	1° Ω 48'31		morning rise	3318 Jun 02 17:29	29° 8 58'11	
					3318 Jun 02 15:15	30° ₹ 8	
superior conj	3317 Aug 08 08:34	16° Ω 57'27	1°36'25	direct	3318 Jun 07 04:20	29° 8 13'54	
minimum elong	3317 Aug 08 06:45	16° Ω 47'49	1°36'17		3318 Jun 11 16:22	Π $^{\circ}0$	
max. Earth dist.	3317 Aug 11 04:20	22° Ω 55'51	1.33853 AU	morning max el	3318 Jun 21 03:48	6° Ⅱ 14'17	24°39'33
	3317 Aug 14 14:57	O° m y			3318 Jul 08 06:40	0	
evening rise	3317 Aug 16 02:10	2° ₩ 55'34		asc. node	3318 Jul 14 10:49	11° © 53'52	
	3317 Aug 31 09:51	0∘ ⊽		morning set	3318 Jul 16 18:20	16°9542'56	
desc. node	3317 Sep 03 00:35	3° ჲ 59'30			3318 Jul 22 21:41	$\Omega^{\circ}\Omega$	
evening max el	3317 Sep 19 12:36	24° ≙ 34'12	27°15'35				
	3317 Sep 26 14:09	0°M		superior conj	3318 Jul 23 17:32	1° Ω 48'13	1°23'52
retrograde	3317 Oct 02 23:00	1°M52'39		minimum elong	3318 Jul 23 15:14	1° Ω 35'41	1°23'34
C	3317 Oct 08 18:52	30° ₽ Ω		max. Earth dist.	3318 Jul 25 08:17	5° Ω 18′28	1.32857 AU
evening set	3317 Oct 09 22:30	29° £ 10'36		evening rise	3318 Jul 30 23:29	17° Ω 10'55	
min. Earth dist.	3317 Oct 13 17:51	25° Ω 35'32	0.64753 AU	Č	3318 Aug 06 13:42	0° m/y	
inferior conj	3317 Oct 15 23:33	23° ♀ 08'47		desc. node	3318 Aug 20 21:36	23° m 16'34	
minimum elong	3317 Oct 16 03:40	22° ♀ 57'31			3318 Aug 25 23:56	0∘ ⊽	
morning rise	3317 Oct 22 09:55	17° £ 38'57	2 27 25	evening max el	3318 Sep 01 23:05	7° ≏ 38'04	27°26'06
asc. node	3317 Oct 22 05:58	17° ⊆ 14'45		retrograde	3318 Sep 15 16:16	14° ⊆ 54'17	27 20 00
direct	3317 Oct 25 12:50 3317 Oct 25 00:50	17° ⊆ 02'58		evening set	3318 Sep 22 20:53	12° ⊆ 20'30	
morning max el	3317 Oct 25 00:30 3317 Oct 31 12:42	20° ⊆ 30'20	18°00'36	min. Earth dist.	3318 Sep 26 12:00		0.63096 AU
morning max ci	3317 Oct 31 12:42 3317 Nov 07 17:40	20 = 30 20 0° M .	18 00 30	inferior conj	•	6° £ 35'29	
					3318 Sep 29 05:45		
morning set	3317 Nov 18 03:45	17°M06'13		minimum elong	3318 Sep 29 11:11	6° £ 22'06	3-25-58
	3317 Nov 25 22:26	0° 🗖		morning rise	3318 Oct 06 02:55	1° £ 22'46	
desc. node	3317 Nov 29 23:53	6° ₹ 35'36		direct	3318 Oct 08 13:28	0° £ 54'46	
	22157	00 =	001011	asc. node	3318 Oct 10 10:01	1° £ 11'22	1505005
superior conj	3317 Dec 01 22:40	9° ₹ 43'23		morning max el	3318 Oct 15 05:07	4° £ 20'48	17°50'37
minimum elong	3317 Dec 01 21:02	9° ∡ 36'53	0°13'04	morning set	3318 Oct 31 12:08	29° £ 33'34	
behind sun begin	3317 Dec 01 14:45	9° √ 11'42			3318 Oct 31 18:09	0°M	
behind sun end	3317 Dec 02 03:19	10° ≯ 02'02					
max. Earth dist.	3317 Dec 06 03:37	16° ∡ °24′29	1.44881 AU	superior conj	3318 Nov 12 07:21	19°M51'38	0°31'11
	3317 Dec 14 20:21	0°ಕ		minimum elong	3318 Nov 12 10:22	20°M04'12	0°30'45
evening rise	3317 Dec 18 06:04	5° る 15'45		desc. node	3318 Nov 16 20:55	27°M22'34	
greatest brilliancy	3318 Jan 01 09:10	26° る 44'30	-0.6m		3318 Nov 18 11:50	0°⊀	
	3318 Jan 03 14:39	0° ≈		max. Earth dist.	3318 Nov 18 20:30	0° ∡ ³34'51	1.43843 AU
evening max el	3318 Jan 13 08:31	12° ≈ 33'09	19°57'59	evening rise	3318 Nov 27 15:13	14° ∡ °24′27	

	3318 Dec 07 22:14	0°₹			3319 Dec 01 23:10	0°₹	
evening max el	3318 Dec 27 08:26	26° පි 05'31	21°04'00	evening max el	3319 Dec 10 02:56	9° ට 38'53	22°19'30
	3319 Jan 01 02:43	0° ≈		retrograde	3319 Dec 19 17:13	15° る 21'18	, -, -,
retrograde	3319 Jan 04 20:58	1°≈08'24		evening set	3319 Dec 24 06:29	13° る 30'58	
asc. node	3319 Jan 06 09:16	0° ≈ 55'49		asc. node	3319 Dec 24 06:19	13° る 31'18	
	3319 Jan 08 08:35	30°Rる		inferior conj	3319 Dec 29 14:59		1°44'38
evening set	3319 Jan 08 22:54	29° ට 34'15		minimum elong	3319 Dec 29 12:52	7° る 17'37	1°43'52
inferior conj	3319 Jan 14 07:27	23° る 21'30	2°26'20	min. Earth dist.	3319 Dec 29 12:53	7° る 17'34	0.67940 AU
minimum elong	3319 Jan 14 04:56	23° る 30'08	2°25'33	morning rise	3320 Jan 03 19:08	0°る59'57	
min. Earth dist.	3319 Jan 14 16:53	22°る48'59	0.67664 AU		3320 Jan 05 04:29	30°₽ ⋌ ¹	
morning rise	3319 Jan 19 10:48	17° る 08'41		direct	3320 Jan 08 11:41	29° ₰ 02'41	
direct	3319 Jan 24 18:17	14° る 48'53			3320 Jan 12 01:28	ರ°0	
morning max el	3319 Feb 04 10:16	21° ට 10'01	23°43'09	morning max el	3320 Jan 17 21:34	4° ප 34'56	22°15'04
	3319 Feb 12 00:59	0° ≈		desc. node	3320 Jan 30 17:10	20° ප 33'16	
desc. node	3319 Feb 12 20:08	1° ≈ 01'37			3320 Feb 06 06:37	0° ≈	
	3319 Mar 04 15:46	0°) €		morning set	3320 Feb 20 05:44	21° ≈ 37'15	
morning set	3319 Mar 11 20:10	11°) 52′00			3320 Feb 25 07:34	0° ℋ	
max. Earth dist.	3319 Mar 15 17:38	18°) 37′27	1.38710 AU	max. Earth dist.	3320 Feb 25 14:53	0°) 30′44	1.40873 AU
	3319 Mar 21 23:57	$0^{\circ}\Upsilon$					
				superior conj	3320 Mar 04 09:37	14°) (00′47	
superior conj	3319 Mar 23 03:14	2° Y 07'49	-1°42'54	minimum elong	3320 Mar 04 13:02	14° 升 16′02	2°00'27
minimum elong	3319 Mar 23 07:49	2° Y 29′26	1°42'24		3320 Mar 13 02:43	0 ° $\mathbf{\Upsilon}$	
evening rise	3319 Apr 01 06:23	19° Y 45'54		evening rise	3320 Mar 14 16:23	2° Y 56′09	
asc. node	3319 Apr 04 08:35	25° Ƴ 44'11		asc. node	3320 Mar 21 05:37	14° Ƴ 56'58	
	3319 Apr 06 15:11	9° 8		evening max el	3320 Mar 30 21:45	28° Ƴ 50'49	18°17'42
evening max el	3319 Apr 17 15:00	16° 8 11'15	18°48'08		3320 Apr 01 04:37	9° 8	
retrograde	3319 Apr 25 19:50	20° 8 11'40		retrograde	3320 Apr 07 01:31	2° 8 24'55	
evening set	3319 Apr 28 00:30	19° 8 55'34		evening set	3320 Apr 09 12:29	2° 8 00'38	
inferior conj	3319 May 05 22:27	15° 8 35'27			3320 Apr 13 07:31	30° ₹Ƴ	
minimum elong	3319 May 06 01:46	15° 8 29'22	1°36'44	inferior conj	3320 Apr 16 15:43	27° Y 20'03	2°46'47
min. Earth dist.	3319 May 09 04:34	13° 8 13'49	0.57217 AU	minimum elong	3320 Apr 16 19:19	27° Ƴ 12'21	2°45'57
desc. node	3319 May 11 19:18	11° 8 33'06		min. Earth dist.	3320 Apr 20 01:56	24° Y 25'32	0.59253 AU
morning rise	3319 May 13 23:53	10° 8 26'22		morning rise	3320 Apr 23 23:28	21° Y 42'17	
direct	3319 May 19 10:56	9° 8 13'57		desc. node	3320 Apr 27 16:20	20° Y 12'48	
morning max el	3319 Jun 02 19:02	16° 8 43'23	26°11'35	direct	3320 Apr 30 06:47	19° Y 54'25	
	3319 Jun 13 15:56	0°Щ		morning max el	3320 May 14 15:44	27° Y 41'51	27°18'01
	3319 Jun 30 11:27	0°©			3320 May 16 21:09	0° 8	
morning set	3319 Jul 01 05:24	1° © 34'15			3320 Jun 06 06:44	0°II	
asc. node	3319 Jul 01 07:52	1° © 47'12		morning set	3320 Jun 14 14:06	16° Ⅱ 17'07	
	2210 1 1 00 04 40	1.600.40140	1000144	asc. node	3320 Jun 17 04:55	21° Ⅱ 50′23	
superior conj	3319 Jul 08 04:49	16°543'49	1°06'44		3320 Jun 20 22:43	0ಂತಾ	
minimum elong	3319 Jul 08 02:31	16°931'08	1°06'20		2220 1 21 16 26	10520125	0045140
max. Earth dist.	3319 Jul 08 18:06	17°956'57	1.32268 AU	superior conj	3320 Jun 21 16:36	1°538'35	0°45'42
	3319 Jul 14 07:43	0° Ω		minimum elong	3320 Jun 21 14:45	1°528'24	0°45'21
evening rise	3319 Jul 15 03:51	1° Ω 45'42		max. Earth dist.	3320 Jun 21 06:06	0°540'43	1.32073 AU
1 1-	3319 Jul 30 12:24	0° Mp		evening rise	3320 Jun 28 12:44	16°932'05	
desc. node evening max el	3319 Aug 07 18:37 3319 Aug 15 05:06	11° Mp 46'23 20° Mp 04'15	27°04'06	desc. node	3320 Jul 05 05:19 3320 Jul 24 15:38	0° Ω 29° Ω 09'49	
retrograde	3319 Aug 13 03:06 3319 Aug 29 02:06	20 m/04 13 27° m/16'44	27 04 00	desc. node	3320 Jul 24 13.38 3320 Jul 25 10:34	29 3 2 09 49	
evening set	3319 Aug 29 02:00 3319 Sep 05 03:34	25° m 03'35		evening max el	3320 Jul 27 04:08	1° Mp 43'32	26000!12
min. Earth dist.	3319 Sep 03 03:34 3319 Sep 08 19:22	23° m) 22'00	0.61163 AU	retrograde	3320 Jul 27 04:08 3320 Aug 10 03:36	8° My 53'12	20 09 13
inferior conj	3319 Sep 08 19.22 3319 Sep 11 22:56	19° mp 38'38		evening set	3320 Aug 10 03:30 3320 Aug 16 13:48	7° Mp 12'40	
minimum elong	3319 Sep 11 22:30 3319 Sep 12 04:33	19° Mp 26'27		min. Earth dist.	3320 Aug 10 15:48 3320 Aug 20 16:50	4° Mp 37'13	0.59094 AU
morning rise	3319 Sep 12 04:33	14° Mp 46'37	4 18 20	inferior conj	3320 Aug 20 10:30 3320 Aug 23 23:36	2° My 09'09	
direct	3319 Sep 21 16:25	14° mp 23'38		minimum elong	3320 Aug 24 03:08	2° My 02'26	
asc. node	3319 Sep 27 10.23 3319 Sep 27 07:05	14 m/25 58 16° m/36'50		ciong	3320 Aug 24 03:08 3320 Aug 26 23:27	2 11/02 20 30°RΩ	1 2011
morning max el	3319 Sep 27 07:05 3319 Sep 28 19:15	17° Mp 56'26	17°59'18	morning rise	3320 Aug 20 23.27 3320 Aug 31 18:40	27° Ω 40'13	
morning max or	3319 Oct 07 10:41	0° ⊡	1, 5, 10	direct	3320 Sep 03 05:13	27° Ω 19'59	
morning set	3319 Oct 07 10:41 3319 Oct 14 14:34	0 == 12° £ 52'09		ancet	3320 Sep 03 03:13 3320 Sep 09 20:28	0°m	
morning set	3319 Oct 14 14:34 3319 Oct 24 01:03	0°M		morning max el	3320 Sep 09 20:28 3320 Sep 11 03:55	1° m y09'16	18°27'53
	5517 OCL 27 01.03	O IIO		asc. node	3320 Sep 11 03:33 3320 Sep 13 04:08	3°M)17'50	10 21 33
superior conj	3319 Oct 24 18:52	1°ML18'27	1°05'37	morning set	3320 Sep 27 05:45	26° Mp 47'21	
minimum elong	3319 Oct 24 18.32 3319 Oct 24 23:11	1°M37'20	1°05'05	morning set	3320 Sep 27 03:43 3320 Sep 28 21:46	20 ಗ್ರು4721 0° ೧	
max. Earth dist.	3319 Oct 24 23:11 3319 Nov 01 08:59	14°M15'26	1.42236 AU		3320 Dep 20 21.40	· –	
desc. node	3319 Nov 01 08:39 3319 Nov 03 17:57	18°M09'29	1.12230 110	superior conj	3320 Oct 06 05:22	13° ≏ 53'05	1°28'35
evening rise	3319 Nov 07 09:19	24°M00'54		minimum elong	3320 Oct 06 03:22 3320 Oct 06 08:45	13 ≥ 33 03 14° £ 08'45	1°28'16
Ovening 1150	3319 Nov 07 09:19 3319 Nov 11 04:51	24 11 0 00 34 0° ⊼		max. Earth dist.	3320 Oct 00 08.43 3320 Oct 13 15:56	27° £ 13'09	1.40265 AU
	3317 HOV 11 UT.31	~ ~		max. Durin dist.	5520 500 15 15.50	2, -1309	1.10203 AU

	3320 Oct 15 06:47	0°M			3321 Oct 07 19:42	0°M	
evening rise	3320 Oct 18 00:04	4°M34'45			3321 Oct 28 23:20	0° ∡	
desc. node	3320 Oct 20 14:59	8°M53'13		evening max el	3321 Nov 04 05:48	6° ≯ 755'00	24°57'08
	3320 Nov 03 09:56	0° ∡		retrograde	3321 Nov 15 23:48	13° ∡ °44'18 −	
evening max el	3320 Nov 21 17:20	23°×15'08	23°39'19	evening set	3321 Nov 21 15:41	11° × ⁷ 22'14	
retrograde	3320 Dec 02 10:32	29° 🖈 34'52		min. Earth dist.	3321 Nov 26 04:37	6° ₹ 15'29	0.67430 AU
evening set	3320 Dec 07 12:38	27° 🖈 28'08		inferior conj	3321 Nov 27 04:10	4° 🗷 57'58	0°03'14 0°03'12
asc. node inferior conj	3320 Dec 10 03:21 3320 Dec 12 22:29	24° ₹ 44'37 21° ₹ 03'27	0°56'35	minimum elong transit middle	3321 Nov 27 04:05 3321 Nov 27 04:05	4° ₹ 58'15 4° ₹ 58'15	0°03'12 0°03'12
minimum elong	3320 Dec 12 22:29 3320 Dec 12 21:12	21° х 0327 21° х 07'51	0°56'03	transit begin	3321 Nov 27 04:03 3321 Nov 27 01:22	5°×707'11	0 03 12
min. Earth dist.	3320 Dec 12 21:12 3320 Dec 12 09:36	21° х 0731 21° х 47'28	0.67857 AU	transit oegiii transit end	3321 Nov 27 01:22 3321 Nov 27 06:47	4° × 749'19	
morning rise	3320 Dec 12 05:36 3320 Dec 18 05:45	14° × 57'20	0.07637 AC	asc. node	3321 Nov 27 00:47 3321 Nov 27 00:23	5°×710'26	
direct	3320 Dec 22 08:08	13° ₹ 22'53		use. Houe	3321 Dec 01 09:56	30°RM	
morning max el	3320 Dec 30 15:00	18°× 10'12	20°54'04	morning rise	3321 Dec 02 16:39	28°M58'19	
. 8	3321 Jan 09 05:43	8°0		direct	3321 Dec 06 06:27	27° M 44'38	
desc. node	3321 Jan 16 14:13	10° ට 31'34			3321 Dec 11 12:40	0° ≯	
	3321 Jan 29 10:03	0°≈		morning max el	3321 Dec 13 16:12	1° ∡ 756'15	19°45'24
morning set	3321 Jan 29 12:24	0°≈09'11		greatest brilliancy	3321 Dec 26 22:04	19° ₹ 25'24	-0.7m
max. Earth dist.	3321 Feb 06 18:36	13° ≈ 18′22	1.42811 AU		3322 Jan 02 22:27	8°0	
				desc. node	3322 Jan 03 11:17	0° る 49'00	
superior conj	3321 Feb 13 17:11	24° ≈ 49′03	-2°06'43	morning set	3322 Jan 08 08:29	8° る 19'12	
minimum elong	3321 Feb 13 16:40	24° ≈ 46′50	2°06'43	max. Earth dist.	3322 Jan 20 05:40	26° る 54'40	1.44274 AU
	3321 Feb 16 18:01	0°) €			3322 Jan 22 04:10	0° ≈	
evening rise	3321 Feb 25 11:44	15° ¥ 22'36					
	3321 Mar 05 19:56	0° Υ		superior conj	3322 Jan 24 22:50	4°≈27'54	
asc. node	3321 Mar 08 02:39	3° Υ 41'13	10005100	minimum elong	3322 Jan 24 16:28	4°≈02'14	1°55'33
evening max el	3321 Mar 14 09:01	11°Υ53'31	18°07'02	evening rise	3322 Feb 07 12:02	26°≈57'04	
retrograde	3321 Mar 20 23:08	15° Υ 16'55 14° Υ 42'30			3322 Feb 09 07:06	0° ₩ 21° ₩ 48'13	
evening set	3321 Mar 23 16:02 3321 Mar 30 04:10	9° Υ 41'34	3°24'55	asc. node	3322 Feb 22 23:40 3322 Feb 25 21:46	25° H 11'37	10015127
inferior conj minimum elong	3321 Mar 30 04:10 3321 Mar 30 06:16	9 γ 41 34 9° γ 36'23	3°24'40	evening max el retrograde	3322 Feb 23 21.46 3322 Mar 04 08:17	28°\(\frac{1137}{38'06}\)	18 13 27
min. Earth dist.	3321 Mai 30 00:10 3321 Apr 02 06:46	6°Υ38'52	0.61424 AU	evening set	3322 Mar 07 06:50	27° X 52'23	
morning rise	3321 Apr 02 00:40	3° Υ 45'31	0.01424710	inferior conj	3322 Mar 13 07:46	22°\(\)32'03	3°38'38
direct	3321 Apr 12 13:56	1° Υ 24'24		minimum elong	3322 Mar 13 08:02	22°) (32'03	3°38'38
desc. node	3321 Apr 14 13:23	1° Υ 35'35		min. Earth dist.	3322 Mar 15 20:32	19°) (44'13	0.63451 AU
morning max el	3321 Apr 26 18:44	9° Y 21'18	27°49'09	morning rise	3322 Mar 19 08:16	16° ¥ 26′06	
-	3321 May 12 17:20	9° 8		direct	3322 Mar 26 06:02	13°) (42'44	
	3321 May 29 09:44	$\Pi^{\circ}0$		desc. node	3322 Apr 01 10:25	15°) €32'53	
morning set	3321 May 29 18:26	0° Ⅱ 44'31		morning max el	3322 Apr 09 02:20	21°) 40′09	27°42'50
asc. node	3321 Jun 04 01:56	11° Ⅱ 58′09			3322 Apr 16 08:54	0 ° Υ	
max. Earth dist.	3321 Jun 04 16:17	13° Ⅱ 15′58	1.32281 AU		3322 May 05 20:26	$0^{\circ}S$	
				morning set	3322 May 13 16:09	14° 8 49'07	
superior conj	3321 Jun 06 03:08	16° Ⅱ 25'59	0°21'26	max. Earth dist.	3322 May 18 20:44	25° 8 30'03	1.32914 AU
minimum elong	3321 Jun 06 02:10	16° Ⅱ 20'40	0°21'13		3322 May 20 23:26	Π °0	
	3321 Jun 12 08:33	0°95			2222.16 21 10 40	10 T 00 I 00	0005104
evening rise	3321 Jun 12 23:59 3321 Jun 28 14:17	1° © 22'25 0° Ω		superior conj	3322 May 21 10:40 3322 May 21 10:56	1° Ⅲ 00'20 1° Ⅲ 01'47	
evening max el	3321 Jul 28 14.17 3321 Jul 08 20:07	0 3ℓ 12° Ω 37'11	24947'30	minimum elong behind sun begin	3322 May 21 10.36 3322 May 21 05:55	1 П 0147 0° П 34'46	0 03 20
desc. node	3321 Jul 11 12:39	12 0 25/11 14° Ω 59'19	24 47 30	behind sun end	3322 May 21 05:57	1° ∏ 28'48	
retrograde	3321 Jul 22 18:41	19° Ω 40'36		asc. node	3322 May 21 13:57 3322 May 21 22:58	2°П06'35	
evening set	3321 Jul 28 00:01	18° Ω 38'48		evening rise	3322 May 28 11:47	16° Ⅱ 10'37	
min. Earth dist.	3321 Aug 02 07:28		0.57140 AU		3322 Jun 04 08:54	0°50	
inferior conj	3321 Aug 05 04:39	13° Ω 57'18		evening max el	3322 Jun 20 09:26	23° © 05'08	23°11'53
minimum elong	3321 Aug 05 03:16	13° Ω 59'34	5°05'22	desc. node	3322 Jun 28 09:38	28°5540'48	
morning rise	3321 Aug 13 09:07	9° Ω 50′07		retrograde	3322 Jul 03 21:01	29° 5 49'00	
direct	3321 Aug 15 23:39	9° Ω 30′58		evening set	3322 Jul 07 14:01	29° © 18'55	
morning max el	3321 Aug 25 03:51	13° Ω 48′34	19°17'36	min. Earth dist.	3322 Jul 14 18:57	26° © 03'13	0.55638 AU
asc. node	3321 Aug 31 01:11	20° Ω 58'18		inferior conj	3322 Jul 16 13:59	25° © 00'18	
_	3321 Sep 05 11:14	0° Тр		minimum elong	3322 Jul 16 07:04	25°510'27	4°29'52
morning set	3321 Sep 11 05:44	11° Mp 07'30		morning rise	3322 Jul 25 02:30	21°9507'15	
	2221 6 12 12	0.5 0.55	1041:05	direct	3322 Jul 27 23:19	20°547'28	*****
superior conj	3321 Sep 19 09:10	27° Mp 18'27	1°41'06	morning max el	3322 Aug 07 16:30	25° © 45'45	20°28'47
minimum elong	3321 Sep 19 10:51	27° Mp 26'36	1°41'01	aaa m-J-	3322 Aug 11 13:54	0°Ω 0°Ω24/56	
may Earth dist	3321 Sep 20 18:34	0° 亞 28'31	1.38187 AU	asc. node	3322 Aug 26 11:38	9° Ω 24'56 25° Ω 45'09	
max. Earth dist. evening rise	3321 Sep 25 19:49 3321 Sep 29 14:22	16° £ 28'31	1.3010/ AU	morning set	3322 Aug 26 11:38 3322 Aug 28 13:09	25° 3'(45'09'	
desc. node	3321 Sep 29 14:22 3321 Oct 07 12:00	29° £ 29'08			3344 Aug 40 13.09	עוו ט	
debe. Hode	3321 300 07 12.00	27 -27 00					

superior conj	3322 Sep 03 01:27	11° m 20'52		minimum elong	3323 Aug 18 01:09	25° Ω 42'40	1°41'11
minimum elong	3322 Sep 03 01:27	11° Mp 20'52	1°44'48	To all III	3323 Aug 20 02:27	0° Mp	1 24610 444
max. Earth dist.	3322 Sep 08 02:28	21° My 21'37	1.36250 AU	max. Earth dist.	3323 Aug 21 16:54	3° m 17'35	1.34618 AU
evening rise	3322 Sep 12 01:35	28° m 51'05		evening rise	3323 Aug 26 05:17	12° Mp 15'55 0° <u> </u>	
desc. node	3322 Sep 12 16:36 3322 Sep 24 09:00	0° ჲ 19° ჲ 52'31		desc. node	3323 Sep 05 01:04 3323 Sep 11 05:59	0° ≥ 2 9° ⊆ 57'28	
desc. node	3322 Sep 24 09:00 3322 Oct 01 02:00	0°M		desc. node	3323 Sep 11 03.39 3323 Sep 26 05:43	9 == 37 28 0°M	
evening max el	3322 Oct 01 02.00 3322 Oct 17 18:08	20°MJ36'28	26°05'28	evening max el	3323 Sep 26 03.43 3323 Sep 30 06:43	4°ML12'35	26056142
retrograde	3322 Oct 17 18:08 3322 Oct 30 08:05	20 IIL3028 27°IL44'15	20 03 28	retrograde	3323 Sep 30 00.43 3323 Oct 13 10:52	11°ML28'50	20 30 42
evening set	3322 Nov 05 13:49	25°M09'44		evening set	3323 Oct 13 10:32 3323 Oct 20 04:59	8°ML47'09	
min. Earth dist.	3322 Nov 09 19:31	20°M38'24	0.66664 AU	min. Earth dist.	3323 Oct 20 04:57 3323 Oct 24 03:54		0.65552 AU
inferior conj	3322 Nov 11 06:10	18°M50'40		inferior conj	3323 Oct 24 03:34 3323 Oct 26 02:28	2°M38'01	
minimum elong	3322 Nov 11 00:10	18°ML46'11	0°53'35	minimum elong	3323 Oct 26 05:37	2°M28'56	
asc. node	3322 Nov 13 21:26	15°M43'33	0 00 00	mmmum trong	3323 Oct 28 11:42	30°R ≏	1 0202
morning rise	3322 Nov 17 01:49	13°ML00'10		asc. node	3323 Oct 26 11:12 3323 Oct 31 18:29	27° £ 16'56	
direct	3322 Nov 20 05:01	12°ML04'01		morning rise	3323 Nov 01 07:02	26° £ 59'47	
morning max el	3322 Nov 27 00:38	15°ML50'29	18°51'46	direct	3323 Nov 04 01:50	26° £ 17′26	
	3322 Dec 07 15:51	0° ∡ ¹		morning max el	3323 Nov 10 14:26	29° ≏ 48'55	18°14'29
morning set	3322 Dec 18 19:13	17° ∡ 19'56			3323 Nov 10 18:49	0°M	
desc. node	3322 Dec 21 08:18	21° ∡ 19'42		morning set	3323 Nov 29 10:32	27°M48'03	
	3322 Dec 26 21:00	0°ರ		C	3323 Nov 30 18:56	0° ∡ ¹	
max. Earth dist.	3323 Jan 02 22:28	11° ප 04'41	1.45090 AU	desc. node	3323 Dec 08 05:19	11° ∡ 59'43	
superior conj	3323 Jan 04 06:43	13° る 11'26	-1°25'45	superior conj	3323 Dec 14 09:22	21° х 47'20	-0°41'06
minimum elong	3323 Jan 03 21:36	12° る 35'37	1°24'48	minimum elong	3323 Dec 14 04:08	21° ∡ ¹26'43	0°40'24
	3323 Jan 14 20:56	0° ≈		max. Earth dist.	3323 Dec 16 18:04	25° х 30′30	1.45169 AU
evening rise	3323 Jan 19 13:40	7° ≈ 33'52			3323 Dec 19 14:47	0°ರ	
	3323 Feb 02 16:23	0° ∀		evening rise	3323 Dec 30 16:41	17° る 17'58	
evening max el	3323 Feb 09 09:15	8°) 37′45	18°42'07		3324 Jan 07 20:37	0° ≈	
asc. node	3323 Feb 09 20:42	9° ∺ 06'10		greatest brilliancy	3324 Jan 11 11:28	5° ≈ 33'14	-0.7m
retrograde	3323 Feb 16 00:49	12° 米 19′32		evening max el	3324 Jan 23 17:16	22° ≈ 07'45	19°25'49
evening set	3323 Feb 19 05:27	11° ∺ 21'32		asc. node	3324 Jan 27 17:44	25° ≈ 21'52	
inferior conj	3323 Feb 24 22:32	5°) 43′19		retrograde	3324 Jan 30 21:31	26°≈15′20	
minimum elong	3323 Feb 24 21:19	5°) 47′01	3°34'00	evening set	3324 Feb 03 09:10	25°≈04'11	
min. Earth dist.	3323 Feb 26 19:38	3° ¥ 26′23	0.65154 AU	inferior conj	3324 Feb 08 21:13		3°15'52
	3323 Mar 02 00:22	30°R≈		minimum elong	3324 Feb 08 19:05	19°≈17'10	3°15'28
morning rise	3323 Mar 02 12:45	29°≈32'22		min. Earth dist.	3324 Feb 10 03:15	17°≈32'25	0.66450 AU
direct	3323 Mar 09 05:06	26°≈41'11		morning rise	3324 Feb 14 04:45	12°≈56'56	
desc. node	3323 Mar 17 09:50	0° ∺ 1° ∺ 30'28		direct	3324 Feb 20 10:20	10°≈11'01 17°≈35'41	25°56'44
morning max el	3323 Mar 19 07:28 3323 Mar 22 11:59	4° ∺ 28'32	27002151	morning max el desc. node	3324 Mar 03 21:36 3324 Mar 05 04:32	17 ≈3341 18°≈55'54	23 30 44
morning max er	3323 Mai 22 11:39 3323 Apr 10 21:16	4 γ(2832 0° γ	27 02 31	desc. node	3324 Mar 14 07:11	18 ≈33 34 0° H	
morning set	3323 Apr 10 21:10 3323 Apr 27 04:12	28° Y 20'59			3324 Mai 14 07:11 3324 Apr 02 20:29	0° Υ	
morning set	3323 Apr 28 00:39	0° 8		morning set	3324 Apr 09 02:37	11° Υ 08'57	
max. Earth dist.	3323 May 01 15:52	7° 8 13'34	1.34000 AU	max. Earth dist.	3324 Apr 12 23:42	18° Y 27'47	1.35542 AU
man. Barun dige.	5525 Hay 01 10.52	, 0133.	1.5 .000 110	man. Darin digi.	332 . r.pr 12 232	10 12/1/	1.555 .2110
superior conj	3323 May 05 13:06	15° 8 14'34	-0°33'47	superior conj	3324 Apr 18 07:58	29° Ƴ 01'43	-1°02'26
minimum elong	3323 May 05 14:51	15° 8 23'44		minimum elong	3324 Apr 18 11:14	29° Ƴ 18'16	1°01'51
asc. node	3323 May 08 20:00	22° 8 10'58			3324 Apr 18 19:28	$0^{\circ}S$	
evening rise	3323 May 12 22:14	0° Ⅱ 49'48		asc. node	3324 Apr 24 17:02	12° 8 07'28	
-	3323 May 12 12:43	$\Pi^{\circ}0$		evening rise	3324 Apr 26 05:19	15° 8 13'56	
	3323 May 29 19:57	0ංම			3324 May 03 20:11	$\Pi^{\circ}0$	
evening max el	3323 Jun 02 03:34	3°ഇ38'04	21°37'46	evening max el	3324 May 14 08:28	14° Ⅱ 42'33	20°16'52
retrograde	3323 Jun 14 12:11	9° © 43'07		retrograde	3324 May 25 01:53	19° Ⅱ 55'53	
desc. node	3323 Jun 15 06:38	9°541'45		evening set	3324 May 27 01:45	19° Ⅱ 45'49	
evening set	3323 Jun 17 00:11	9° 5 28'59		desc. node	3324 Jun 01 03:41	18° Ⅱ 01'18	
inferior conj	3323 Jun 26 09:34	5° 5 27'48	-3°07'27	inferior conj	3324 Jun 05 04:33	15° Ⅱ 47'19	-1°11'23
minimum elong	3323 Jun 26 01:38	5° © 38'53		minimum elong	3324 Jun 05 01:12	15° Ⅱ 52'16	
min. Earth dist.	3323 Jun 26 05:55	5° © 32'53	0.54898 AU	min. Earth dist.	3324 Jun 06 18:18	14° Ⅱ 51'50	0.55106 AU
morning rise	3323 Jul 05 04:08	1°533'49		morning rise	3324 Jun 13 23:21	11° Ⅱ 32'10	
direct	3323 Jul 08 10:24	1° © 10'36		direct	3324 Jun 17 21:20	10° Ⅱ 58'59	
morning max el	3323 Jul 20 17:35	6°958'04	21°59'06	morning max el	3324 Jul 01 10:22	17° Ⅱ 35'22	23°40'55
asc. node	3323 Aug 04 19:16	28°526'32		_	3324 Jul 11 12:29	0°95	
	3323 Aug 05 15:02	0° Ω		asc. node	3324 Jul 21 16:18	17°953'54	
morning set	3323 Aug 10 21:17	10° Ω 34'15		morning set	3324 Jul 25 08:48	25°928'45	
gunorior co	2222 Ava 10 02:26	250 0 40126	10/11/15		3324 Jul 27 11:43	0 ° Ω	
superior conj	3323 Aug 18 02:26	25° Ω 49'26	1 41 13				

superior conj	3324 Aug 01 09:11	10° Ω 34'43	1°31'42	asc. node	3325 Jul 08 13:21	7° 5 40'01	
minimum elong	3324 Aug 01 07:07	10° Ω 23'31	1°31'29	morning set	3325 Jul 09 20:32	10° © 23'30	
max. Earth dist.	3324 Aug 03 16:19	15° Ω 29'49	1.33378 AU	. 8			
	•	26°Ω15'58	1.55576710	aumanian aani	2225 Iul. 16 10:27	25°\$29'26	1°17'07
evening rise	3324 Aug 08 21:13			superior conj	3325 Jul 16 19:27		
	3324 Aug 10 18:29	0°Щ		minimum elong	3325 Jul 16 17:05	25° © 16'30	1°16'47
desc. node	3324 Aug 28 03:00	29° M 35'27		max. Earth dist.	3325 Jul 17 23:05	28° © 00'29	1.32554 AU
	3324 Aug 28 09:45	0∘ ত			3325 Jul 18 21:03	$0^{\circ}\Omega$	
evening max el	3324 Sep 11 18:19	17° ≏ 31'15	27°23'45	evening rise	3325 Jul 23 21:55	10° Ω 41′24	
retrograde	3324 Sep 25 07:45	24° ≏ 49'09		C	3325 Aug 03 00:41	0° m/	
evening set	3324 Oct 02 10:27	22° Ω 08'54		desc. node	3325 Aug 15 00:02	18° m) 35'06	
Č			0.64000.441	desc. Hode	•		
min. Earth dist.	3324 Oct 06 03:34	18° ≏ 48'18	0.64088 AU		3325 Aug 24 18:29	0∘ ত	
inferior conj	3324 Oct 08 14:36	16° ≏ 14'00	-2°54'18	evening max el	3325 Aug 25 03:01	0° ഫ 20'22	27°20'44
minimum elong	3324 Oct 08 19:22	16° ≏ 01'31	2°52'38	retrograde	3325 Sep 07 22:17	7° ≏ 35'53	
morning rise	3324 Oct 15 05:29	10° £ 51'18		evening set	3325 Sep 15 02:46	5° ഫ 08'59	
direct	3324 Oct 17 18:16	10° £ 19'06		min. Earth dist.	3325 Sep 18 17:08	2° ≏ 16'23	0.62303 AU
asc. node	3324 Oct 17 15:33	10° ₽ 19'10		min. Darvir diov.	3325 Sep 21 03:45	30°R.M)	0.02505110
			17054115				2050157
morning max el	3324 Oct 24 06:48	13° Ω 44'37	17°54'15	inferior conj	3325 Sep 21 15:41	29° m 31'58	
	3324 Nov 04 14:02	0°M₊		minimum elong	3325 Sep 21 21:24	29° Mp 18'36	3°49'23
morning set	3324 Nov 10 05:34	9°M36'43		morning rise	3325 Sep 28 17:40	24° m 27'58	
	3324 Nov 22 09:42	0° ∡ ¹		direct	3325 Oct 01 03:09	24° m 02'34	
				asc. node	3325 Oct 04 12:35	24° m 55'12	
superior conj	3324 Nov 23 03:28	1° √ 12'18	0°06'33	morning max el	3325 Oct 07 22:42	27° m/30'30	17°51'57
				morning max ci			11 11 11
minimum elong	3324 Nov 23 04:12	1° ∡ 15'17 −	0°06'27		3325 Oct 10 04:22	0∘ ত	
behind sun begin	3324 Nov 22 18:55	0° ≯ 37'32		morning set	3325 Oct 23 22:19	22° ≏ 27'44	
behind sun end	3324 Nov 23 13:29	1° ∡ 52'59			3325 Oct 28 03:32	0° M	
desc. node	3324 Nov 24 02:19	2° ∡ ¹44'57					
max. Earth dist.	3324 Nov 28 12:32	9° ∡ 750'35	1.44514 AU	superior conj	3325 Nov 03 23:45	11°ML54'45	0°47'10
evening rise	3324 Dec 09 04:08	26° ₹ 28'24		minimum elong	3325 Nov 04 03:41	12°M11'30	0°46'39
evening rise	3324 Dec 07 04:00	0°පි		desc. node	3325 Nov 10 23:21	23°M32'21	0 4037
	3325 Jan 01 00:49	0° ≈		max. Earth dist.	3325 Nov 11 03:09	23°M47'50	1.43215 AU
evening max el	3325 Jan 05 20:13	5° ≈ 38'37	20°24'36		3325 Nov 14 23:45	0° ∡ ¹	
retrograde	3325 Jan 13 19:38	10° ≈ 20′17		evening rise	3325 Nov 18 15:04	5° х 43′34	
asc. node	3325 Jan 13 14:48	10° ≈ 20′03			3325 Dec 04 19:53	0°ಕ	
evening set	3325 Jan 17 15:48	8°≈54'53		evening max el	3325 Dec 19 17:37	19° る 10'40	21°35'17
inferior conj	3325 Jan 23 01:04	2°≈47'55	2°46'58	retrograde	3325 Dec 28 17:04	24° る 30'53	21 33 17
·				•			
minimum elong	3325 Jan 22 22:33	2°≈56′29	2°46'18	asc. node	3325 Dec 31 11:52	23° ප් 48'38	
min. Earth dist.	3325 Jan 23 17:35	1° ≈ 51'44	0.67329 AU	evening set	3326 Jan 01 23:30	22° る 50'07	
	3325 Jan 25 03:16	30°Ŗ る		inferior conj	3326 Jan 07 07:50	16° る 33'26	2°09'30
morning rise	3325 Jan 28 05:06	26° る 34'16		minimum elong	3326 Jan 07 05:26	16° පි 41'44	2°08'42
direct	3325 Feb 02 20:56	24° පි 03'11		min. Earth dist.	3326 Jan 07 12:17	16°₹18′00	0.67820 AU
	3325 Feb 13 09:29	0° ≈		morning rise	3326 Jan 12 11:11	10° る 21'12	
marning may al		0°≈51'23	24°34'08	direct	3326 Jan 17 12:14	8°る10'39	
morning max el	3325 Feb 14 06:16		24 34 06				22005112
desc. node	3325 Feb 20 01:34	7°≈23'36		morning max el	3326 Jan 27 15:29	14° る 11'47	23°05'12
	3325 Mar 08 06:22	0° ₩		desc. node	3326 Feb 06 22:36	26° ⋜ 35'41	
morning set	3325 Mar 22 06:07	22°) 58'20			3326 Feb 09 10:28	0° ≈	
max. Earth dist.	3325 Mar 25 21:46	29°) 30'14	1.37472 AU		3326 Mar 01 05:06	0°) €	
	3325 Mar 26 04:17	$0^{\circ}\Upsilon$		morning set	3326 Mar 03 08:21	3°) 31'48	
				max. Earth dist.	3326 Mar 07 16:31	10°) 53′52	1.39628 AU
superior conj	3325 Apr 01 16:05	12° Υ 13'21	-1°29'19	Wibt.	0, 10.51	,(05.52	, 020 110
					2226 M 15 00 15	240 1/20124	1051122
minimum elong	3325 Apr 01 20:28	12° Υ 34'40	1 2042	superior conj	3326 Mar 15 09:15	24°) (38'24	
evening rise	3325 Apr 10 06:40	29° Y 16'01		minimum elong	3326 Mar 15 13:38	24° ¥ 58'34	1°51'10
	3325 Apr 10 15:31	$6^{\circ}B$			3326 Mar 18 06:21	0° Y	
asc. node	3325 Apr 11 14:05	1° 8 51'42		evening rise	3326 Mar 24 23:15	12° Y 47'18	
evening max el	3325 Apr 27 01:27	26° 8 28'42	19°14'48	asc. node	3326 Mar 29 11:09	21° Y °17'44	
v , v	3325 May 02 01:13	0°II			3326 Apr 03 10:51	0°8	
ratra ara da	•	0° П 52'15		ovenina mas1	=	8° 8 51'33	10022151
retrograde	3325 May 06 02:26			evening max el	3326 Apr 10 04:11		16 32 31
evening set	3325 May 08 03:30	0° Ⅲ 39'44		retrograde	3326 Apr 17 20:56	12° 8 38'37	
	3325 May 10 08:41	30°₹ ႘		evening set	3326 Apr 20 04:14	12° 8 19'23	
inferior conj	3325 May 16 12:59	26° 8 30'11	0°43'06	inferior conj	3326 Apr 27 17:56	7° 8 51'10	2°11'05
minimum elong	3325 May 16 14:44	26° 8 27'15	0°42'28	minimum elong	3326 Apr 27 21:42	7° と 43'48	2°10'00
desc. node	3325 May 19 00:44	24° 8 50'24		min. Earth dist.	3326 May 01 03:49	5° 8 12'27	0.58040 AU
min. Earth dist.	3325 May 19 09:19	24° 8 36'29	0.56231 AU	morning rise	3326 May 05 12:02	2° 8 28'36	
			0.50251 AU	•	-		
morning rise	3325 May 24 22:54	21° 8 40'35		desc. node	3326 May 05 21:47	2° 8 17'03	
direct	2225 25 22 15 1			direct	7776 Mar. 11 00.20	1° 8 01'09	
	3325 May 29 19:46	20° 8 45'50		direct	3326 May 11 08:39		
morning max el	3325 May 29 19:46 3325 Jun 13 00:40	20° 8 45'50 28° 8 00'51	25°20'58	morning max el	3326 May 25 17:50	8° 8 40'11	26°43'36
morning max el			25°20'58		•		26°43'36
morning max el	3325 Jun 13 00:40	28° 8 00'51	25°20'58		3326 May 25 17:50	8° 8 40'11	26°43'36

asc. node	3326 Jun 25 10:23	27° Ⅱ 38'17		asc. node	3327 Jun 12 07:26	17° Ⅱ 43'55	
	3326 Jun 26 12:49	0		max. Earth dist.	3327 Jun 14 21:48	23° Ⅱ 23'47	1.32117 AU
	2226 X 1 01 07 10	1000005150	0050115		2227 15 10 25	2501110110	0025140
superior conj	3326 Jul 01 07:10	10°525'52		superior conj	3327 Jun 15 18:37	25° Ⅱ 18'10	
minimum elong	3326 Jul 01 05:00	10°513'56		minimum elong	3327 Jun 15 17:06	25° Ⅱ 09'47	0°35'28
max. Earth dist.	3326 Jul 01 10:08	10°542'10	1.32137 AU		3327 Jun 17 21:50	0°95	
evening rise	3326 Jul 08 04:29	25°922'24		evening rise	3327 Jun 22 14:36	10°911'26	
	3326 Jul 10 10:06	0° N		1 1	3327 Jul 02 18:07	0° Ω	
	3326 Jul 27 18:26	0° m/y		desc. node	3327 Jul 19 18:04	23° Ω 27'16	25027106
desc. node	3326 Aug 01 21:03	6° Mp 39'49	26044124	evening max el	3327 Jul 20 02:24	23° Ω 47'20	25°37'06
evening max el	3326 Aug 07 06:21	12° Mp 27'48	26°44'34	. 1	3327 Jul 29 06:38	0° m/y	
retrograde	3326 Aug 21 05:00	19° Mp 39'17		retrograde	3327 Aug 03 01:59	0° m 54'13	
evening set	3326 Aug 28 01:21	17° m 38'59	0.60200 ATT		3327 Aug 07 20:50	30°RN 29°N30'23	
min. Earth dist.	3326 Aug 31 20:20	15° Mp 01'54 12° Mp 22'44		evening set min. Earth dist.	3327 Aug 09 01:28	29 δι 30 23 26° Ω 51'33	0.58237 AU
inferior conj minimum elong	3326 Sep 04 02:16 3326 Sep 04 07:21	12 my 22 44 12° my 12'19		inferior conj	3327 Aug 13 14:29 3327 Aug 16 18:52	24° Ω 36'24	
morning rise	3326 Sep 04 07.21 3326 Sep 11 15:18	7° Mp 40'11	4 30 36	minimum elong	3327 Aug 16 18:32 3327 Aug 16 20:38	24° Ω 33'15	
direct	3326 Sep 14 00:31	7° Mp 18'44		morning rise	3327 Aug 10 20:38 3327 Aug 24 18:04	24° Ω 3313	3 04 34
asc. node	3326 Sep 21 09:37	10° Mp 54'36		direct	3327 Aug 24 18:04 3327 Aug 27 06:09	19° Ω 57'04	
morning max el	3326 Sep 21 10:54	10° Mp 57'41	18°08'51	morning max el	3327 Aug 27 00:09 3327 Sep 04 16:06	23° Ω 56'55	18°46'18
morning max ci	3326 Oct 04 00:43	ე∘ <u>ი</u>	10 00 31	asc. node	3327 Sep 04 10:00 3327 Sep 08 06:39	28° Ω 02'30	10 40 10
morning set	3326 Oct 07 06:44	ი – 6° ჲ 03'37		asc. node	3327 Sep 08 00:37 3327 Sep 09 16:47	0° m)	
morning set	3320 001 07 00.44	0 =0337		morning set	3327 Sep 07 10:47 3327 Sep 21 02:04	20° Mp 10'46	
superior conj	3326 Oct 16 21:41	23° ♀ 52'14	1°16'44	morning set	3327 Sep 21 02:04 3327 Sep 26 02:40	20° <u>₽</u>	
minimum elong	3326 Oct 17 01:46	24° ⊆ 10'36			3327 Sep 20 02.40	o –	
minimum clong	3326 Oct 20 08:41	0°M	1 1010	superior conj	3327 Sep 29 16:08	6° £ 50'03	1°35'05
max. Earth dist.	3326 Oct 24 12:55	7° M _10'05	1.41430 AU	minimum elong	3327 Sep 29 18:50	7° ⊆ 02'47	1°34'52
desc. node	3326 Oct 28 20:22	14°M18'39	1.41430 AC	max. Earth dist.	3327 Sep 25 18:30 3327 Oct 06 18:25	7 — 02 4 7 19° ⊆ 50'14	1.39385 AU
evening rise	3326 Oct 29 17:06	15°M42'43		evening rise	3327 Oct 10 17:56	26° £ 44'23	1.57505 710
evening rise	3326 Nov 07 20:29	0° √		evening rise	3327 Oct 10 17:30 3327 Oct 12 16:25	0°M	
	3326 Nov 29 20:13	∘ੰਤ		desc. node	3327 Oct 12 10:23 3327 Oct 15 17:23	4°M59'39	
evening max el	3326 Dec 02 10:15	2°₹45'43	22°53'24	desc. Hode	3327 Nov 01 11:05	0° ∡ 7	
retrograde	3326 Dec 12 12:08	8° ਰ 44'29	22 33 2 1	evening max el	3327 Nov 14 23:41	16° ₹ 124'05	24°13'09
evening set	3326 Dec 17 06:37	6° る 47'25		retrograde	3327 Nov 26 03:38	22° х 56'50	
asc. node	3326 Dec 18 08:53	5°₹46'46		evening set	3327 Dec 01 11:36	20° × ⁷ 43'24	
inferior conj	3326 Dec 22 15:33	0° る 24'42	1°24'58	asc. node	3327 Dec 05 05:54	16°×733'55	
minimum elong	3326 Dec 22 13:45	0° る 30'58	1°24'16	min. Earth dist.	3327 Dec 06 05:04	15° ∡ 17'10	0.67722 AU
min. Earth dist.	3326 Dec 22 08:54	0° ರ 47'41	0.67946 AU	inferior conj	3327 Dec 06 22:27	14° × 18'37	0°34'30
	3326 Dec 22 22:43	30°R. ✓		minimum elong	3327 Dec 06 21:38	14° ∡ ¹21'24	0°34'10
morning rise	3326 Dec 27 20:44	24° ₹ 15'46		morning rise	3327 Dec 12 07:42	8° ₹ 15'06	
direct	3327 Jan 01 07:12	22° ҂ 28′04		direct	3327 Dec 16 04:37	6° ҂ 749'42	
morning max el	3327 Jan 10 04:52	27° ∡ 740′17	21°39'19	morning max el	3327 Dec 24 01:27	11° ∡ 19'59	20°23'09
C	3327 Jan 12 09:11	0°ರ		Č	3328 Jan 07 08:09	0°ರ	
desc. node	3327 Jan 24 19:38	16° る 19'59		desc. node	3328 Jan 11 16:39	6° る 27'09	
	3327 Feb 03 01:30	0° ≈		morning set	3328 Jan 21 04:39	20° ප 555'46	
morning set	3327 Feb 11 05:31	12° ≈ 42'24			3328 Jan 26 23:48	0° ≈	
max. Earth dist.	3327 Feb 17 15:57	23° ≈ 09'19	1.41740 AU	max. Earth dist.	3328 Jan 30 23:25	6° ≈ 21'09	1.43510 AU
	3327 Feb 21 17:44	0°) €					
				superior conj	3328 Feb 06 03:09	16° ≈ 23'54	-2°04'28
superior conj	3327 Feb 25 06:34	6°) €05'39	-2°04'58	minimum elong	3328 Feb 06 00:10	16° ≈ 11'36	2°04'22
minimum elong	3327 Feb 25 08:41	6° ₩ 14'51	2°04'55		3328 Feb 14 04:11	0° ∀	
evening rise	3327 Mar 08 03:31	25°) 39′53		evening rise	3328 Feb 18 15:12	7°) 44'49	
	3327 Mar 10 12:18	$0^{\circ}\mathbf{\Upsilon}$		asc. node	3328 Mar 02 05:13	28°) 48'48	
asc. node	3327 Mar 16 08:12	10° Ƴ 19'28			3328 Mar 03 01:09	0 ° Υ	
evening max el	3327 Mar 24 13:19	21° Y 42'28	18°10'51	evening max el	3328 Mar 07 01:30	4° Ƴ 52'04	18°08'17
retrograde	3327 Mar 31 09:43	25° Ƴ 09'47		retrograde	3328 Mar 13 12:51	8° Ƴ 15'11	
evening set	3327 Apr 02 23:25	24° Y 41'13		evening set	3328 Mar 16 08:13	7° Y 35'56	
inferior conj	3327 Apr 09 19:45	19° Ƴ 51'58		inferior conj	3328 Mar 22 15:05	2° Y 26'15	
minimum elong	3327 Apr 09 22:49	19° Ƴ 44'58	3°05'46	minimum elong	3328 Mar 22 16:23	2° Y 22'51	3°33'14
min. Earth dist.	3327 Apr 13 03:52	16° Ƴ 51′02	0.60181 AU		3328 Mar 24 23:18	30° ₹ ₩	
morning rise	3327 Apr 16 19:58	14° Y 05'35		min. Earth dist.	3328 Mar 25 12:06	29° ∺ 27'45	0.62318 AU
desc. node	3327 Apr 22 18:49	12° Y 03'42		morning rise	3328 Mar 28 23:14	26° ∺ 25′18	
direct	3327 Apr 23 09:44	12° Y 02'38		direct	3328 Apr 04 20:32	23° ¥ 53′25	
morning max el	3327 May 07 16:58	19° Y 54'24	27°35'49	desc. node	3328 Apr 08 15:51	24° ∺ 35′02	
	3327 May 16 07:56	9° 8			3328 Apr 16 23:33	$\mathbf{\gamma}_{0}$	
	3327 Jun 03 16:16	$\Pi^{\circ}0$		morning max el	3328 Apr 18 22:12	1° Y 50'53	27°51'05
morning set	3327 Jun 08 13:51	9° Ⅱ 48'54			3328 May 09 14:29	$0^{\circ}S$	

morning set	3328 May 22 15:41	24° 8 07'27		morning max el	3329 Apr 01 07:16	14°) €24'32	27°29'39
morning set	3328 May 25 11:57	0°Ⅱ		morning max ci	3329 Apr 01 07:10 3329 Apr 13 23:14	0°Υ	21 2) 3)
max. Earth dist.	3328 May 28 06:14	5° I I52'23	1.32497 AU		3329 May 02 05:40	0°8	
asc. node	3328 May 29 04:29	7° I 52'30	1.52 .5 / 110	morning set	3329 May 06 09:42	7° 8 59'21	
		,		max. Earth dist.	3329 May 11 07:13		1.33313 AU
superior conj	3328 May 30 04:05	10° Ⅱ 00'31	0°10'20				
minimum elong	3328 May 30 03:36	9° II 57'52	0°10'14	superior conj	3329 May 14 09:42	24° 8 26'46	-0°17'19
behind sun begin	3328 May 29 23:37	9° Ⅱ 36′10		minimum elong	3329 May 14 10:34	24° 8 31'25	
behind sun end	3328 May 30 07:36	10° Ⅱ 19'35		asc. node	3329 May 16 01:31	27° 8 59'35	
evening rise	3328 Jun 06 02:19	25° Ⅱ 01'46			3329 May 16 23:58	$\Pi^{\circ}0$	
	3328 Jun 08 11:18	0°ಅ		evening rise	3329 May 21 13:46	9° Ⅱ 46'38	
	3328 Jun 26 13:54	$0^{\circ}\Omega$			3329 Jun 01 02:26	0ಂತ	
evening max el	3328 Jun 30 16:27	4° Ω 26'54	24°07'37	evening max el	3329 Jun 12 06:39	14°952'11	22°30'53
desc. node	3328 Jul 05 15:04	8° Ω 27'24		desc. node	3329 Jun 22 12:06	21°503'52	
retrograde	3328 Jul 14 11:35	11° Ω 24'03		retrograde	3329 Jun 25 09:04	21° © 22'51	
evening set	3328 Jul 19 02:00	10° Ω 37'06		evening set	3329 Jun 28 11:53	21° © 01'25	
min. Earth dist.	3328 Jul 25 03:00	7° Ω 39'01	0.56427 AU	min. Earth dist.	3329 Jul 06 13:58	17° 5 30'15	0.55204 AU
inferior conj	3328 Jul 27 15:18	6° Ω 05'37	-4°56'55	inferior conj	3329 Jul 07 17:34	16° © 51'03	-4°01'21
minimum elong	3328 Jul 27 11:23	6° Ω 11'45	4°56'32	minimum elong	3329 Jul 07 09:25	17° © 02'39	3°59'23
morning rise	3328 Aug 04 23:23	2° Ω 06′08		morning rise	3329 Jul 16 09:05	13° © 00'12	
direct	3328 Aug 07 16:33	1° Ω 46'50		direct	3329 Jul 19 09:05	12° © 39'40	
morning max el	3328 Aug 17 11:28	6° Ω 19'43	19°45'20	morning max el	3329 Jul 30 19:11	17° © 58'13	21°05'17
asc. node	3328 Aug 25 03:42	16° Ω 04'36			3329 Aug 09 05:02	$0^{\circ}\Omega$	
	3328 Sep 01 20:48	0° m y		asc. node	3329 Aug 12 00:44	4° Ω 47'20	
morning set	3328 Sep 04 04:56	4°Mp40′16		morning set	3329 Aug 19 12:42	19° Ω 23'44	
					3329 Aug 24 14:37	0°Щ	
superior conj	3328 Sep 12 01:51	20° m 33'47	1°43'39				
minimum elong	3328 Sep 12 02:47	20° m 38'25	1°43'37	superior conj	3329 Aug 26 22:18	4° ™ 49'10	1°44'06
	3328 Sep 16 22:36	0∘ ⊽		minimum elong	3329 Aug 26 21:42	4° ₩ 46'04	1°44'05
max. Earth dist.	3328 Sep 17 23:10	1° £ 55'35	1.37336 AU	max. Earth dist.	3329 Aug 31 08:28	13°M/46'27	1.35506 AU
evening rise	3328 Sep 21 17:41	8° ≏ 50'02		evening rise	3329 Sep 04 12:29	21° m 49'26	
desc. node	3328 Oct 01 14:24	25° £ 31'30			3329 Sep 08 23:47	0₀ ಹ	
	3328 Oct 04 10:47	0°M₊		desc. node	3329 Sep 18 11:25	15° ≏ 48'10	
	3328 Oct 27 09:41	0°⊀			3329 Sep 28 06:09	0° M	
evening max el	3328 Oct 27 11:54	0° ∡ 05'25	25°27'40	evening max el	3329 Oct 10 00:09	13°M45'14	26°29'39
retrograde	3328 Nov 08 14:49	7° ∡ 103'45		retrograde	3329 Oct 22 21:01	20°M58'32	
evening set	3328 Nov 14 12:49	4° ∡ ³35'37		evening set	3329 Oct 29 08:19	18°M19'52	
	3328 Nov 18 17:31	30°RM₁		min. Earth dist.	3329 Nov 02 10:57	14°M04'01	0.66237 AU
min. Earth dist.	3328 Nov 18 22:31	29°M44'05	0.67154 AU	inferior conj	3329 Nov 04 02:40	12°M04'12	
inferior conj	3328 Nov 20 02:48	28°M13'03		minimum elong	3329 Nov 04 04:49		1°18'31
minimum elong	3328 Nov 20 03:20	28°M11'21	0°20'29	asc. node	3329 Nov 07 23:57	7°M49'46	
asc. node	3328 Nov 21 02:55	26°M56'11		morning rise	3329 Nov 10 01:57	6°M18'40	
morning rise	3328 Nov 25 18:09	22°M17'15		direct	3329 Nov 13 01:10	5°M29'02	10022147
direct	3328 Nov 29 03:10	21°M11'34 25°M10'53	10020120	morning max el	3329 Nov 19 17:07 3329 Dec 04 11:34	9° M .08'12 0° ∡ 7	18-33-47
morning max el	3328 Dec 06 06:01		19°20'38	marning sat			
arrantant brillianas	3328 Dec 10 09:54 3328 Dec 19 18:11	0° ∡ ¹ 13° ∡ ¹20'04	-0.7m	morning set desc. node	3329 Dec 10 02:23	8° ≯ 56'28 17° ≯ 26'16	
greatest brilliancy desc. node	3328 Dec 19 18:11 3328 Dec 28 13:41	26° ₹ 51'00	-U. /III	desc. node	3329 Dec 15 10:43 3329 Dec 23 09:58	17 メ ・2010	
morning set	3328 Dec 28 13:41 3328 Dec 30 04:10	20° x 31'00' 29° x 20'04			3329 Dec 23 09.38	0.0	
morning set	3328 Dec 30 04:10 3328 Dec 30 14:29	29 ス 20 04		superior conj	3329 Dec 26 01:19	4° ට 08'35	1°07'57
max. Earth dist.	3329 Jan 12 13:33		1.44711 AU	minimum elong	3329 Dec 26 01:19 3329 Dec 25 17:10	3° る 36'36	
max. Larm dist.	332) Jan 12 13.33	20 01314	1. 11 /11 AO	max. Earth dist.	3329 Dec 25 17:10 3329 Dec 26 07:24		1.45213 AU
superior conj	3329 Jan 15 22:13	25° ප 35'04	-1°45'24	evening rise	3330 Jan 10 21:52	29°පි08'28	1.43213 AO
minimum elong	3329 Jan 15 13:57	25° る 02'08		evening rise	3330 Jan 11 10:50	0°≈	
minimum ciong	3329 Jan 18 16:29	0°≈	1 4443	greatest brilliancy	3330 Jan 19 19:15	13°≈15'19	-0.8m
evening rise	3329 Jan 30 06:11	18°≈55'18		greatest orimancy	3330 Jan 31 10:53	0° ∀	0.0111
e vennig nise	3329 Feb 05 22:15	0°) €		evening max el	3330 Feb 02 00:08	1°) 42′04	18°58'45
asc. node	3329 Feb 17 02:14	16° ¥ 36′20		asc. node	3330 Feb 03 23:15	3°) (29'49	
evening max el	3329 Feb 17 02:14 3329 Feb 18 13:55	18°) 13'45	18°24'34	retrograde	3330 Feb 08 20:26	5°) (34'00	
retrograde	3329 Feb 25 01:43	21°) (45'42		evening set	3330 Feb 12 03:47	4°) (30'44	
evening set	3329 Feb 28 02:42	20°) 54'56			3330 Feb 16 18:31	30°R≈	
inferior conj	3329 Mar 05 23:53	15° ¥ 26'33	3°38'39	inferior conj	3330 Feb 17 18:26	28° ≈ 45'37	3°27'50
minimum elong	3329 Mar 05 23:28	15°) €27'47	3°38'38	minimum elong	3330 Feb 17 16:46	28°≈50'54	3°27'36
min. Earth dist.	3329 Mar 08 05:58	12° ¥ 50′22	0.64218 AU	min. Earth dist.	3330 Feb 19 09:04	26° ≈ 44'24	0.65753 AU
morning rise	3329 Mar 11 19:31	9°) 17'43		morning rise	3330 Feb 23 05:22	22° ≈ 33'12	
direct	3329 Mar 18 15:36	6° ∺ 29'27		direct	3330 Mar 01 17:37	19° ≈ 42'33	
desc. node	3329 Mar 26 12:53	9°) 27′39		desc. node	3330 Mar 13 09:55	26°≈06′25	

morning max el	3330 Mar 14 17:10	27° ≈ 22'55	26°37'20	morning rise	3331 Feb 07 01:18	6°≈03'58	
	3330 Mar 17 04:26	0° ∀		direct	3331 Feb 13 01:25	3° ≈ 23'08	
	3330 Apr 07 15:16	$0^{\circ}\mathbf{\Upsilon}$		morning max el	3331 Feb 25 02:07	10° ≈ 33'46	25°22'53
morning set	3330 Apr 19 16:33	21° Y 14'46		desc. node	3331 Feb 28 06:58	14°≈00'47	
max. Earth dist.	3330 Apr 23 21:26	29° Y 24′00	1.34594 AU		3331 Mar 12 13:07	0° ∀	
	3330 Apr 24 04:40	9° 8			3331 Mar 31 06:31	0 ° Υ	
				morning set	3331 Apr 02 07:36	3° Y 39'30	
superior conj	3330 Apr 28 09:16	8° 8 30'46	-0°46'01	max. Earth dist.	3331 Apr 06 00:14	10° Ƴ 28'17	1.36323 AU
minimum elong	3330 Apr 28 11:41	8° 8 43'13	0°45'32				
asc. node	3330 May 02 22:34	18° 8 01'26		superior conj	3331 Apr 11 23:59	22° Y 04'02	-1°14'12
evening rise	3330 May 05 23:04	24° 8 20'20		minimum elong	3331 Apr 12 03:49	22° Y 23′05	1°13'35
	3330 May 08 17:31	Π $^{\circ}0$			3331 Apr 15 22:35	9° 8	
evening max el	3330 May 25 04:59	25° Ⅱ 36'43	21°01'23	asc. node	3331 Apr 19 19:37	7° 8 53'15	
	3330 May 31 05:43	0 \circ \odot		evening rise	3331 Apr 20 03:59	8° 8 35'39	
retrograde	3330 Jun 05 22:11	1° 5 20'31			3331 May 01 22:54	$\Pi^{\circ}0$	
evening set	3330 Jun 08 02:36	1° 5 09'19		evening max el	3331 May 07 15:13	6° Ⅱ 58'54	19°48'03
desc. node	3330 Jun 09 09:07	0°953'00		retrograde	3331 May 17 14:33	11° Ⅱ 49'18	
	3330 Jun 11 23:34	30° Ŗ Ⅱ		evening set	3331 May 19 14:02	11° Ⅲ 38'44	
inferior conj	3330 Jun 17 11:05	27° Ⅱ 11'33	-2°20'21	desc. node	3331 May 27 06:10	8° Ⅲ 20′08	
minimum elong	3330 Jun 17 04:38	27° Ⅲ 20′39	2°18'07	inferior conj	3331 May 28 10:17	7° Ⅲ 37'11	-0°20'41
min. Earth dist.	3330 Jun 18 01:49	26° Ⅱ 50'43	0.54861 AU	minimum elong	3331 May 28 09:21	7° Ⅱ 38'38	0°20'21
morning rise	3330 Jun 26 06:38	23° Ⅱ 10′27		min. Earth dist.	3331 May 30 15:07	6° Ⅱ 16′01	0.55487 AU
direct	3330 Jun 29 18:32	22° Ⅱ 44'04		morning rise	3331 Jun 06 02:26	3° Ⅱ 08'20	
morning max el	3330 Jul 12 16:13	28° Ⅱ 53'54	22°41'39	direct	3331 Jun 10 09:54	2° Ⅱ 27'16	
C	3330 Jul 13 19:28	0ංම		morning max el	3331 Jun 24 06:56	9° Ⅱ 21'37	24°24'36
asc. node	3330 Jul 29 21:49	24°900'46		Č	3331 Jul 09 13:51	0ංම	
	3330 Aug 01 22:04	$0^{\circ}\Omega$		asc. node	3331 Jul 16 18:53	13° © 36'41	
morning set	3330 Aug 03 23:21	4° Ω 15'26		morning set	3331 Jul 19 11:09	19° © 10'13	
. 8				. 8	3331 Jul 24 11:38	$0^{\circ}\Omega$	
superior conj	3330 Aug 11 02:04	19° Ω 25'47	1°37'52				
minimum elong	3330 Aug 11 00:23	19° Ω 16'50		superior conj	3331 Jul 26 10:33	4° Ω 15'26	1°26'05
max. Earth dist.	3330 Aug 14 02:28	25° Ω 46'45		minimum elong	3331 Jul 26 08:18	4°Ω03'11	1°25'49
	3330 Aug 16 03:43	0°m∕		max. Earth dist.	3331 Jul 28 05:25	8° Ω 07'23	1.32978 AU
evening rise	3330 Aug 18 21:53	5° m/30'43		evening rise	3331 Aug 02 17:56	19° Ω 42'37	
0.0000	3330 Sep 01 16:03	0∘ <mark>ಹ</mark>			3331 Aug 08 00:08	0° m)	
desc. node	3330 Sep 05 08:26	5° Ω 42'44		desc. node	3331 Aug 23 05:28	25° m/05'56	
evening max el	3330 Sep 22 12:35	27° £ 15'41	27°11'35		3331 Aug 26 19:48	0∘ ಹ	
V 1 4	3330 Sep 25 15:17	0°M		evening max el	3331 Sep 04 23:33	10° £ 24'26	27°26'34
retrograde	3330 Oct 05 21:35	4°MJ33'43		retrograde	3331 Sep 18 15:45	17° ≏ 40'53	_, _,,
evening set	3330 Oct 12 19:46	1°ML51'36		evening set	3331 Sep 25 20:09	15° ≏ 05'06	
5 · • · · · · · · · · · · · · · · · · ·	3330 Oct 14 22:07	30° RΩ		min. Earth dist.	3331 Sep 29 11:42		0.63361 AU
min. Earth dist.	3330 Oct 16 16:02		0.64969 AU	inferior conj	3331 Oct 02 03:43	9° £ 17'32	
inferior conj	3330 Oct 18 19:51	25° ♀ 47'42		minimum elong	3331 Oct 02 09:01	9° ≙ 04'17	
minimum elong	3330 Oct 18 23:43	25° £ 36'57		morning rise	3331 Oct 08 23:14	4° £ 02'04	
morning rise	3330 Oct 25 04:39	20° £ 15′28		direct	3331 Oct 11 10:19	3° £ 33'02	
asc. node	3330 Oct 25 21:01	19° £ 58'47		asc. node	3331 Oct 12 18:05	3° £ 41'36	
direct	3330 Oct 27 20:30	19° £ 37'56		morning max el	3331 Oct 18 00:52	6° £ 58'36	17°51'00
morning max el	3330 Nov 03 08:21	23° ♀ 06'11	18°03'38		3331 Nov 02 03:20	0° M	.,
. 8	3330 Nov 08 20:06	0°M₊		morning set	3331 Nov 03 11:21	2°MJ19'41	
morning set	3330 Nov 21 06:08	20°ML01'02					
morning sec	3330 Nov 27 07:14	0°×7		superior conj	3331 Nov 15 13:13	22°M56'54	0°24'59
desc. node	3330 Dec 02 07:43	8° ≯ 08'51		minimum elong	3331 Nov 15 15:44	23°ML07'23	0°24'38
dose. Hode	000000000000000000000000000000000000000	0 7. 0021		desc. node	3331 Nov 19 04:45	28°M55'45	0 2.50
superior conj	3330 Dec 05 08:25	12° ∡ 59'50	-0°20'33	dese. Hode	3331 Nov 19 20:36	0° ∡ 7	
minimum elong	3330 Dec 05 05:52	12° × ⁷ 49'38		max. Earth dist.	3331 Nov 21 20:11	3° × ⁷ 11'35	1.44039 AU
max. Earth dist.	3330 Dec 09 02:31	18° ∡ 56'45		evening rise	3331 Dec 01 02:09	17° × ⁷ 43'00	1.11037110
Lartii dist.	3330 Dec 09 02:31	0°중	1,,,,110		3331 Dec 01 02:03 3331 Dec 09 04:02	0° ਟ	
evening rise	3330 Dec 21 16:50	8° ප 34'24		evening max el	3331 Dec 30 06:57	28° ♂ 45'23	20°53'24
greatest brilliancy	3331 Jan 04 07:43	8 03424 29° る 22'03	-0.7m	Croming max of	3331 Dec 30 00:37	28 ○ 43 23	20 33 2T
51 carest offinality	3331 Jan 04 07:43	29 ⊙ 22 03	V. / III	retrograde	3332 Jan 07 15:53	0 ≈ 3°≈42'30	
evening max el	3331 Jan 16 06:13	0 ≈ 15°≈13'03	19°49'14	asc. node	3332 Jan 07 13:33 3332 Jan 08 17:21	3°≈36'17	
asc. node	3331 Jan 21 20:19	13 ≈13 03 19°≈14'26	17 77 17	evening set	3332 Jan 11 16:18	3 ≈30 17 2°≈10'33	
retrograde	3331 Jan 23 17:54	19 ≈14 20 19°≈34'04		evening set	3332 Jan 11 10:18	2 ≈1033 30°Rる	
•	11.J4 C2 11.J4	17 ~3404					
	3331 Jan 27 08.50	18°2217'06		inferior coni	3332 Jan 17 00:58	75° 7 56'IN	2°32'00
evening set	3331 Jan 27 08:59	18°≈17'06 12°≈17'31	3°04'44	inferior conj	3332 Jan 17 00:58	25° る 59'10	
inferior conj	3331 Feb 01 19:38	12° ≈ 17'31	3°04'44 3°04'13	minimum elong	3332 Jan 16 22:27	26° පි 07'50	2°31'15
•			3°04'13	-			

direct	3332 Jan 27 14:07	17° る 23'21		direct	3333 Jan 10 06:55	1° る 35'48	
morning max el	3332 Jan 27 14.07 3332 Feb 07 10:37		23°56'25	morning max el	3333 Jan 19 21:19	7°る15'32	2202752
morning max er	3332 Feb 07 10.57 3332 Feb 12 21:50	23 O 31 29 0° ≈	23 30 23	desc. node	3333 Feb 01 01:01	7 31332 22° 3 16'10	22 21 32
JJ.		0 ≈ 2°≈49'14		desc. node		0°≈	
desc. node	3332 Feb 15 04:00				3333 Feb 06 11:27		
	3332 Mar 04 23:15	0°) {		morning set	3333 Feb 22 15:02	24°≈56'14	
morning set	3332 Mar 14 01:01	14°) 57'55	1 20200 111	F 4 F	3333 Feb 25 16:38	0°) (21152	1 40554 177
max. Earth dist.	3332 Mar 17 20:11	21°) (36'30	1.38389 AU	max. Earth dist.	3333 Feb 27 16:38	3° 大 21'53	1.40554 AU
	3332 Mar 22 10:58	0° Y			222216 05 11 20	1.60\(.5010.5	1050105
				superior conj	3333 Mar 07 11:39	16° ¥ 59'05	
superior conj	3332 Mar 25 02:17	4° Y 57'10		minimum elong	3333 Mar 07 15:24	17° ∺ 15'59	1°58'22
minimum elong	3332 Mar 25 06:53	5° Y 18'57	1°39'00		3333 Mar 14 13:10	0° Υ	
evening rise	3332 Apr 03 01:59	22° Y 25'31		evening rise	3333 Mar 17 13:50	5° Y 41'54	
asc. node	3332 Apr 05 16:40	27° Y 30′17		asc. node	3333 Mar 23 13:42	16° Ƴ 47'02	
	3332 Apr 07 00:03	0°8			3333 Apr 01 06:06	0° 8	
evening max el	3332 Apr 19 12:39	19° 8 00'56	18°54'22	evening max el	3333 Apr 02 18:27	1° 8 36'43	18°21'00
retrograde	3332 Apr 27 22:22	23° 8 06'59		retrograde	3333 Apr 10 01:17	5° 8 13'49	
evening set	3332 Apr 30 02:01	22° 8 51'55		evening set	3333 Apr 12 11:15	4° 8 50'57	
inferior conj	3332 May 08 02:57	18° 8 34'33	1°24'27	inferior conj	3333 Apr 19 17:06	_	2°38'22
minimum elong	3332 May 08 05:58	18° 8 29'08	1°23'27	minimum elong	3333 Apr 19 20:48	0° 8 05'53	2°37'29
min. Earth dist.	3332 May 11 07:01	16° 8 19'42	0.56943 AU		3333 Apr 19 23:36	30° ጺ ϒ	
desc. node	3332 May 13 03:12	15° 8 08'07		min. Earth dist.	3333 Apr 23 03:40	27° Y 22′20	0.58927 AU
morning rise	3332 May 16 06:45	13° 8 30'23		morning rise	3333 Apr 27 03:31	24° Ƴ 39'21	
direct	3332 May 21 14:07	12° 8 22'57		desc. node	3333 Apr 30 00:13	23° Y 26'36	
morning max el	3332 Jun 04 21:45	19° 8 48'53	25°59'16	direct	3333 May 03 08:15	22° Ƴ 56'47	
	3332 Jun 13 13:57	Π $^{\circ}0$			3333 May 16 23:50	9° 8	
	3332 Jun 30 23:50	0 \circ \mathfrak{S}		morning max el	3333 May 17 17:34	0° 8 42'38	27°10'12
morning set	3332 Jul 02 22:24	4° 5 02'39			3333 Jun 07 15:08	$\Pi^{\circ}0$	
asc. node	3332 Jul 02 15:55	3° 5 28'25		morning set	3333 Jun 17 07:33	18° Ⅱ 47'35	
				asc. node	3333 Jun 19 12:57	23° Ⅲ 30′45	
superior conj	3332 Jul 09 21:35	19° © 10'58	1°09'37		3333 Jun 22 12:35	0°ಅ	
minimum elong	3332 Jul 09 19:15	18° © 58'08	1°09'13				
max. Earth dist.	3332 Jul 10 14:35	20°5944'23	1.32328 AU	superior conj	3333 Jun 24 09:24	4°গু06'41	0°49'09
	3332 Jul 14 20:59	$0^{\circ}\Omega$		minimum elong	3333 Jun 24 07:27	3° © 55'57	0°48'46
evening rise	3332 Jul 16 21:23	4° Ω 15′09		max. Earth dist.	3333 Jun 24 02:26	3°528'18	1.32075 AU
C	3332 Jul 30 17:18	0° m)		evening rise	3333 Jul 01 05:43	19° © 00'33	
desc. node	3332 Aug 09 02:30	13° m) 44'18		Č	3333 Jul 06 15:33	$0^{\circ}\Omega$	
evening max el	3332 Aug 17 06:16	22° m 56'42	27°09'31		3333 Jul 25 19:37	0° m	
Č	3332 Aug 29 03:52	0° <u>ٽ</u>		desc. node	3333 Jul 26 23:31	1° m) 19'31	
retrograde	3332 Aug 31 02:47	0° ჲ 10'00		evening max el	3333 Jul 30 06:21	4° m 43'07	26°19'18
Ü	3332 Sep 02 00:58	30°R ™)		retrograde	3333 Aug 13 05:46	11° m 53'32	
evening set	3332 Sep 07 05:28	27° m 52'46		evening set	3333 Aug 19 19:01	10° m 07'30	
min. Earth dist.	3332 Sep 10 20:34	25° m 08'56	0.61463 AU	min. Earth dist.	3333 Aug 23 19:23	-	0.59404 AU
inferior conj	3332 Sep 13 23:03	22° m) 24'43		inferior conj	3333 Aug 27 02:20	5° m 00'34	
minimum elong	3332 Sep 14 04:45	22° m) 12'05		minimum elong	3333 Aug 27 06:23	4° m 52'45	4°51'58
morning rise	3332 Sep 21 05:47	17° m) 29'38		morning rise	3333 Sep 03 19:54	0°m/28'10	
direct	3332 Sep 23 14:55	17° m) 06'05		direct	3333 Sep 06 05:57	0° m 07'44	
asc. node	3332 Sep 28 15:07	18° m) 54'28		morning max el	3333 Sep 14 01:14	3° m 54'01	18°22'16
morning max el	3332 Sep 30 15:33		17°56'49	asc. node	3333 Sep 15 12:09	5° m) 24'51	
C	3332 Oct 07 16:09	0∘ <u>v</u>		morning set	3333 Sep 30 00:54	29° m 21'37	
morning set	3332 Oct 16 11:24	15° ≏ 31'35		Ü	3333 Sep 30 08:56	$0 \circ \overline{\mathbf{v}}$	
S	3332 Oct 24 11:22	0°M			1		
				superior conj	3333 Oct 09 04:14	16° ≏ 37'45	1°25'48
superior conj	3332 Oct 26 20:52	4° ™ 12'39	1°01'08	minimum elong	3333 Oct 09 07:50		1°25'27
minimum elong	3332 Oct 27 01:10	4°M31'18	1°00'35	max. Earth dist.	3333 Oct 16 16:40	0°M00'05	1.40572 AU
max. Earth dist.	3332 Nov 03 09:19	16°M57'11	1.42503 AU	man. Darun dibt.	3333 Oct 16 16:39	0°M	1.100/2110
desc. node	3332 Nov 05 01:47	19°M43'01	12003110	evening rise	3333 Oct 21 05:09	7°M36'45	
evening rise	3332 Nov 09 17:56	27°M12'50		desc. node	3333 Oct 22 22:48	10°M27'18	
2. cg 1100	3332 Nov 11 12:29	0° √		2000. 11040	3333 Nov 04 14:49	0° ₹	
	3332 Nov 11 12:29 3332 Dec 01 23:12	°ਨ ਨ		evening max el	3333 Nov 04 14:49 3333 Nov 24 16:58	25° 🖈 53'43	23°27'26
evening max el	3332 Dec 01 23:12 3332 Dec 12 02:08	00 12° る 18'19	22°07'47	Croming max of	3333 Nov 24 10:38 3333 Nov 29 12:11	23 × 33 43	23 21 20
retrograde	3332 Dec 12 02:08 3332 Dec 21 12:30	12 3 1819	22 0/7/	retrograde	3333 Nov 29 12.11 3333 Dec 05 06:20	0 3 2° る 08'29	
evening set	3332 Dec 21 12:30 3332 Dec 25 23:58	17 3 3307 16° る 07'14		evening set	3333 Dec 03 06:20 3333 Dec 10 06:23	2 308 29 0° る 04'17	
asc. node	3332 Dec 25 25.38 3332 Dec 25 14:23	16°る0714		evening set	3333 Dec 10 08:24	0 00417 30°R <i>X</i> ⁷	
inferior conj	3332 Dec 23 14.23 3332 Dec 31 08:22	9° る 47'21	1°51'24	asc. node	3333 Dec 10 08:24 3333 Dec 12 11:24	27° √ 149'46	
minimum elong	3332 Dec 31 06:10	9° る 54'59	1°50'37	min. Earth dist.	3333 Dec 12 11.24 3333 Dec 15 04:40	24° 🖈 18'33	0.67889 AU
min. Earth dist.	3332 Dec 31 00:10 3332 Dec 31 07:55	9 3 439	0.67922 AU	inferior conj	3333 Dec 15 04.40 3333 Dec 15 15:57	24 × 18 33 23° × 39'53	1°04'14
min. Earth dist.	3332 Dec 31 07:55 3333 Jan 05 12:14	9° 6 48'33	0.01322 AU	minimum elong	3333 Dec 15 15:37 3333 Dec 15 14:31	23° × '39'33	1°04'14 1°03'40
morning rise	333 Jan 03 12.14	J U J0 20		mminum etong	13 14.31 DEC 13	43 X 44 49	1 03 40

morning rise	3333 Dec 20 22:36	17° ∡ ³32'53		transit end	3334 Nov 29 23:40	7° ₹ 29'00	
direct	3333 Dec 20 22:30 3333 Dec 25 03:00	17 × 32 33		morning rise	3334 Nov 29 23:40 3334 Dec 05 09:34	1° х 23'39	
morning max el	3334 Jan 02 13:36	20° × 48'46	21°05'26	direct	3334 Dec 09 01:11	0° ₹ 16'58	
morning max ci	3334 Jan 10 06:09	20 × 40 40	21 03 20	morning max el	3334 Dec 09 01:11	4°×733'04	19°54'44
desc. node	3334 Jan 18 22:02	0 3 12°る10'54		morning max er	3335 Jan 04 04:37	0°중	1) 5444
dese. Hode	3334 Jan 30 17:26	0°≈		desc. node	3335 Jan 05 19:04	2° る 25'49	
morning set	3334 Feb 02 01:04	3°≈36'58		morning set	3335 Jan 11 21:05	11° る 45'18	
max. Earth dist.	3334 Feb 02 01:04 3334 Feb 09 19:01	16° ≈ 00'39	1.42545 AU	max. Earth dist.	3335 Jan 23 05:10	29° る 31'02	1.44096 AU
max. Darm dist.	3331100 07 17.01	10 / 0.00 3 /	1.123 13 110	max. Earth dist.	3335 Jan 23 12:27	0°≈	1.11070716
superior conj	3334 Feb 16 22:56	27° ≈ 57'46	-2°06'47		3333 Juli 23 12.27	0 / 0 /	
minimum elong	3334 Feb 16 23:11	27°≈58'52		superior conj	3335 Jan 28 08:26	7°≈46'51	-1°58'49
minimum trong	3334 Feb 18 03:29	0° ∀	2 00 .,	minimum elong	3335 Jan 28 02:55		1°58'32
evening rise	3334 Feb 28 11:38	18° ¥ 15′24		evening rise	3335 Feb 10 15:01	29°≈57'56	1 0002
	3334 Mar 07 02:05	0°Υ			3335 Feb 10 15:30	0° ∀	
asc. node	3334 Mar 10 10:43	5° Υ 36'10		asc. node	3335 Feb 25 07:45	23°) (49'25	
evening max el	3334 Mar 17 05:16	14° Υ 36'42	18°07'25	evening max el	3335 Feb 28 18:00	27°) 53'02	18°13'00
retrograde	3334 Mar 23 20:41	18° Υ 00'36			3335 Mar 03 06:57	0°Υ	
evening set	3334 Mar 26 12:45	17° Y 27'46		retrograde	3335 Mar 07 04:22	1° Υ 18'05	
inferior conj	3334 Apr 02 02:54	12° Υ 29'58	3°20'50	evening set	3335 Mar 10 02:09	0° Υ 34'01	
minimum elong	3334 Apr 02 05:16	12° Υ 24'14	3°20'30	evening see	3335 Mar 11 01:51	30°R) €	
min. Earth dist.	3334 Apr 05 07:13	9° Υ 26'51	0.61104 AU	inferior conj	3335 Mar 16 04:30	25°) 16'25	3°37'50
morning rise	3334 Apr 08 19:53	6° Υ 36'08	0.01101110	minimum elong	3335 Mar 16 05:02	25° X 14'58	3°37'49
direct	3334 Apr 15 14:02	4° Υ 19'17		min. Earth dist.	3335 Mar 18 19:30	22° H 25'17	0.63171 AU
desc. node	3334 Apr 16 21:15	4° Υ 24'07		morning rise	3335 Mar 22 06:53	19° X 11'41	0.03171710
morning max el	3334 Apr 29 19:34	12° Υ 15'20	27°46'54	direct	3335 Mar 29 04:51	16°) € 30'50	
morning man er	3334 May 13 20:13	0°8	27 .00.	desc. node	3335 Apr 03 18:17	17° ₩ 59'55	
	3334 May 30 21:50	0° I		morning max el	3335 Apr 12 02:33	24°) (28'14	27°46'03
morning set	3334 Jun 01 12:39	3° Ⅱ 17'31		morning mair or	3335 Apr 17 02:46	0°Υ	27 .003
asc. node	3334 Jun 06 09:59	13° Ⅲ 38'05			3335 May 07 05:24	0°8	
max. Earth dist.	3334 Jun 07 13:02	16° Ⅱ 05'01	1.32223 AU	morning set	3335 May 16 11:30	17° 8 25'36	
man zarm ulov.	333.0411 07 13.02	10 200 01	1.5223 110	max. Earth dist.	3335 May 21 18:36	28° 8 22'46	1.32794 AU
superior conj	3334 Jun 08 20:13	18° Ⅱ 55'30	0°25'19	man. Darun dige.	3335 May 22 12:51	0°II	1.52,71110
minimum elong	3334 Jun 08 19:06	18° ∏ 49'19				-	
8	3334 Jun 13 21:44	0°9		superior conj	3335 May 24 04:19	3° Ⅱ 31'53	-0°01'12
evening rise	3334 Jun 15 16:43	3° 9 50'38		minimum elong	3335 May 24 04:23	3° Д 32'11	0°01'11
	3334 Jun 29 15:47	0°N		behind sun begin	3335 May 23 23:08	3° Д 03'53	
evening max el	3334 Jul 11 23:17	15° Ω 42'59	25°00'56	behind sun end	3335 May 24 09:38	4° Ⅱ 00'31	
desc. node	3334 Jul 13 20:32	17° Ω 25'13		asc. node	3335 May 24 07:02	3° Ⅱ 46′29	
retrograde	3334 Jul 25 22:28	22° Ω 47'35		evening rise	3335 May 31 04:34	18° ∏ 39'20	
evening set	3334 Jul 31 08:47	21°Ω40'15		<i>y</i>	3335 Jun 05 18:16	0ಂತಾ	
min. Earth dist.	3334 Aug 05 10:55		0.57414 AU	evening max el	3335 Jun 23 12:36	26°512'49	23°26'22
inferior conj	3334 Aug 08 10:24	16° Ω 55'27		<i>y</i>	3335 Jun 28 03:46	$0^{\circ}\Omega$	
minimum elong	3334 Aug 08 09:54	16°Ω56'17		desc. node	3335 Jun 30 17:33	1° Ω 28'16	
morning rise	3334 Aug 16 13:33	12° Ω 45'06		retrograde	3335 Jul 07 02:31	3°₽00'28	
direct	3334 Aug 19 03:20	12° Ω 25'52		evening set	3335 Jul 11 01:02	2° Ω 26'33	
morning max el	3334 Aug 28 02:35	16° Ω 38'37	19°08'46	<i>8</i>	3335 Jul 16 15:34	30°Rூ	
asc. node	3334 Sep 02 09:11	22°Ω57'06		min. Earth dist.	3335 Jul 17 22:31	•	0.55821 AU
	3334 Sep 06 18:51	0° m		inferior conj	3335 Jul 19 22:28	28°904'50	
morning set	3334 Sep 13 23:46	13° m 38'33		minimum elong	3335 Jul 19 16:13	28°514'08	
3	r	4		morning rise	3335 Jul 28 09:52	24°9510'31	
superior conj	3334 Sep 22 05:45	29° m 56'15	1°39'48	direct	3335 Jul 31 05:47	23°950'51	
minimum elong	3334 Sep 22 07:41	0° ഫ 05'39		morning max el	3335 Aug 10 16:58	28°542'13	20°16'53
8	3334 Sep 22 06:31	0∘ ⊽			3335 Aug 12 00:32	0°N	
max. Earth dist.	3334 Sep 28 20:41	12° ≏ 20'53	1.38496 AU	asc. node	3335 Aug 20 06:14	11° Ω 17'32	
evening rise	3334 Oct 02 16:01	19° £ 06'07	1.501,70110	morning set	3335 Aug 29 04:59	28° Ω 14'17	
evening rise	3334 Oct 09 03:48	0°M		morning sev	3335 Aug 30 01:39	0° m)	
desc. node	3334 Oct 09 19:50	1°M04'45				* '4	
	3334 Oct 29 20:09	0° ⊼		superior conj	3335 Sep 05 20:26	13° m 54'01	1°44'44
evening max el	3334 Nov 07 05:39		24°46'02	minimum elong	3335 Sep 05 20:20 3335 Sep 05 20:40	13° m 55'12	1°44'44
retrograde	3334 Nov 18 20:12	16° ⊀ 18'45	* *=	max. Earth dist.	3335 Sep 03 20:10 3335 Sep 11 02:50	24° Mp 17'00	1.36523 AU
evening set	3334 Nov 24 09:59	13° × 58'59			3335 Sep 11 02:30 3335 Sep 14 03:38	0° ഫ	3023 110
min. Earth dist.	3334 Nov 29 00:06	8° × ⁷ 47'04	0.67514 AU	evening rise	3335 Sep 14 03:38 3335 Sep 15 00:24	0 — 1° Ω 35'37	
asc. node	3334 Nov 29 00:00 3334 Nov 29 08:25	8° 🖈 19'36	5.57517 AU	desc. node	3335 Sep 15 00:24 3335 Sep 26 16:51	21° ⊆ 30'35	
inferior conj	3334 Nov 29 08:23 3334 Nov 29 22:01	7°×734'28	0°11'39	dese. Houc	3335 Oct 02 06:12	0°M	
minimum elong	3334 Nov 29 22:01 3334 Nov 29 21:43	7° 🖈 34 28	0°11'39	evening max el	3335 Oct 02 00:12 3335 Oct 20 18:00	23°M15'12	25°56'12
transit middle	3334 Nov 29 21:43	7° 🖈 35'26		Croning max ci	3335 Oct 20 18:50 3335 Oct 30 18:53	23 IIG13 12 0°×7	20 00 12
transit begin	3334 Nov 29 21:43 3334 Nov 29 19:47	7° х ′33 26 7° х ′41′52	0 11 51	retrograde	3335 Nov 02 05:12	0° ₹ ¹20'35	
transit oegili	5557 110V 27 17.4/	, 7 71 32		ronogrado	JJJJ 140V 02 0J.12	0 × 20 33	

	3335 Nov 04 12:41	30°RM₊		retrograde	3336 Oct 15 08:51	14° M L08'15	
evening set	3335 Nov 04 12.41 3335 Nov 08 08:59	27°M47'37		evening set	3336 Oct 13 08:31 3336 Oct 22 01:22	14 IIL0813	
min. Earth dist.	3335 Nov 12 15:43	23°M11'04	0.66803 AU	min. Earth dist.	3336 Oct 22 01:22 3336 Oct 26 01:12	7°M26'39	0.65745 AU
inferior conj	3335 Nov 12 13:43 3335 Nov 14 00:41	23 IILTT 04 21°ML27'37		inferior conj	3336 Oct 26 01.12 3336 Oct 27 22:00	5°M16'05	
•	3335 Nov 14 00:41 3335 Nov 14 01:53	21°ML23'51		,	3336 Oct 27 22:00 3336 Oct 28 00:53	5°ML07'38	1°43'46
minimum elong	3335 Nov 14 01:33 3335 Nov 16 05:28	18°M47'53	0 44 43	minimum elong asc. node	3336 Nov 02 02:30	0°ML09'41	1 43 40
asc. node				asc. node			
morning rise	3335 Nov 19 19:10	15°M35'40			3336 Nov 02 08:26	30°R Ω	
direct	3335 Nov 22 23:51	14°M37'05	10050144	morning rise	3336 Nov 03 01:10	29° £ 35'57	
morning max el	3335 Nov 29 21:03	18°M26'25	18°58'44	direct	3336 Nov 05 21:03	28° £ 51'50	
	3335 Dec 08 19:38	0° ∡ 7			3336 Nov 09 11:18	0°M	10010155
morning set	3335 Dec 22 04:19	20° ∡ 34'51		morning max el	3336 Nov 12 10:16		18°18'55
desc. node	3335 Dec 23 16:05	22° ∡ ′54'41			3336 Dec 01 02:58	0° ∡ ¹	
	3335 Dec 28 04:50	0° ろ		morning set	3336 Dec 01 15:09	0° х 49′21	
max. Earth dist.	3336 Jan 05 21:36	13° る 38'09	1.45016 AU	desc. node	3336 Dec 09 13:08	13° ∡ 33'30	
superior conj	3336 Jan 07 18:44	16° る 35'52	-1°31'27	superior conj	3336 Dec 16 20:46	25° ∡ 108'47	-0°48'20
minimum elong	3336 Jan 07 09:36	15° る 59'53		minimum elong	3336 Dec 16 14:39	24° × ⁷ 44'43	0°47'32
minimum ciong	3336 Jan 16 05:01	0° ≈	1 30 33	max. Earth dist.	3336 Dec 18 16:52	28° х 102'08	1.45207 AU
avanina risa	3336 Jan 22 20:08	0 ≈ 10°≈43'15		max. Earm dist.	3336 Dec 18 10.32 3336 Dec 19 22:55	28 x 02 08 0°る	1.43207 AU
evening rise		10°≈43°13 0° ∺				0°る 20°る34'03	
	3336 Feb 03 19:08		10027101	evening rise	3337 Jan 02 02:16		
evening max el	3336 Feb 12 05:49	11°) 18'04	18°37'01		3337 Jan 08 02:54	0°≈	0.0
asc. node	3336 Feb 12 04:47	11°) 15'26		greatest brilliancy	3337 Jan 13 04:11	7°≈50'02	-0.8m
retrograde	3336 Feb 18 20:07	14° ¥ 56'55		evening max el	3337 Jan 25 14:26	24° ≈ 47'09	19°18'19
evening set	3336 Feb 21 23:49	14°) €00'45		asc. node	3337 Jan 29 01:50	27° ≈ 41′08	
inferior conj	3336 Feb 27 17:52	8° ∺ 24'55		retrograde	3337 Feb 01 16:27	28° ≈ 50'33	
minimum elong	3336 Feb 27 16:50	8° ∺ 28′00	3°35'40	evening set	3337 Feb 05 02:56	27° ≈ 41'28	
min. Earth dist.	3336 Feb 29 17:14	6° ∺ 02'49	0.64925 AU	inferior conj	3337 Feb 10 15:34	21° ≈ 49'35	3°19'20
morning rise	3336 Mar 04 09:22	2° 升 14′26		minimum elong	3337 Feb 10 13:32	21° ≈ 56′10	3°19'00
	3336 Mar 07 23:17	30° ₹ ≈		min. Earth dist.	3337 Feb 11 23:46	20° ≈ 05'40	0.66281 AU
direct	3336 Mar 11 02:51	29° ≈ 23'43		morning rise	3337 Feb 15 23:52	15° ≈ 36′24	
	3336 Mar 14 11:01	0° ∀		direct	3337 Feb 22 07:13	12° ≈ 49′00	
desc. node	3336 Mar 20 15:18	3°) 41′24		morning max el	3337 Mar 06 22:00	20° ≈ 18′25	26°07'52
morning max el	3336 Mar 24 12:11	7° ₩ 13'13	27°10'42	desc. node	3337 Mar 07 12:20	20° ≈ 55'04	
	3336 Apr 11 02:10	0 ° $\mathbf{\Upsilon}$			3337 Mar 15 06:06	0° ∀	
	3336 Apr 28 12:12	0°8			3337 Apr 04 05:17	0 $^{\circ}$ \mathbf{Y}	
morning set	3336 Apr 29 01:16	1° 8 03'04		morning set	3337 Apr 12 02:03	13° Y 58'33	
max. Earth dist.	3336 May 03 15:29	10° 8 11'49	1.33809 AU	max. Earth dist.	3337 Apr 16 01:01	21° Y 29'43	1.35280 AU
	,				3337 Apr 20 07:56	0°8	
superior conj	3336 May 07 07:42	17° 8 49'32	-0°29'26		•		
minimum elong	3336 May 07 09:13	17° 8 57'31	0°29'06	superior conj	3337 Apr 21 03:53	1° 8 41'07	-0°58'09
asc. node	3336 May 10 04:06	23° 8 51'51		minimum elong	3337 Apr 21 06:56	1° 8 56'39	
	3336 May 13 01:21	Π°		asc. node	3337 Apr 27 01:09	13° 8 49'48	
evening rise	3336 May 14 15:23	3° Ⅱ 20′28		evening rise	3337 Apr 28 23:08	17° 8 47'14	
* · · · · · · · · · · · · · · · · · · ·	3336 May 29 12:24	0ಂಣ 		* · · · · · · · · · · · · · · · · · · ·	3337 May 05 03:41	0°П	
evening max el	3336 Jun 04 05:32		21°51'10	evening max el	3337 May 17 08:38	17° Ⅱ 41'41	20°27'50
retrograde	3336 Jun 16 19:11	12° 9 55'18		retrograde	3337 May 28 08:28	23° I I03'13	
desc. node	3336 Jun 16 14:33	12°955'13		evening set	3337 May 20 08:57	22° I 53'06	
evening set	3336 Jun 19 10:32	12°939'41		desc. node	3337 Jun 03 11:35	21° II 36'50	
inferior conj	3336 Jun 28 19:28	8°936'27	-3°22'57	inferior conj	3337 Jun 08 13:37	18° I 55'13	-1°29'//2
minimum elong	3336 Jun 28 11:15	8°947'56		minimum elong	3337 Jun 08 09:24	19° Ⅱ 01'22	
min. Earth dist.	3336 Jun 28 09:21	8°950'36	0.54946 AU	min. Earth dist.	3337 Jun 08 09:24 3337 Jun 09 21:38	19 Ⅱ 01 22 18° Ⅱ 08'43	0.55008 AU
	3336 Jul 07 13:23	4°9544'06	0.34940 AU		3337 Jun 17 08:52	14° II 44'10	0.55008 AU
morning rise				morning rise			
direct	3336 Jul 10 17:54	4°921'45	21044144	direct	3337 Jun 21 03:52	14° I I13'09	22025121
morning max el	3336 Jul 22 19:45	10°501'25	21°44'44	morning max el	3337 Jul 04 13:32	20° Ⅱ 43'02	23°25'31
asc. node	3336 Aug 06 03:18	0° Ω 14'42			3337 Jul 12 11:28	0°95	
	3336 Aug 06 00:07	0° Ω		asc. node	3337 Jul 24 00:22	19°538'34	
morning set	3336 Aug 12 14:16	13° Ω 02'35		morning set	3337 Jul 28 01:37	27°956'27	
superior comi	2336 Aug 10 20:25	28° Ω 19'53	1°42'12		3337 Jul 29 00:57	0 ° Ω	
superior conj	3336 Aug 19 20:25			gunorier con:	2227 Aug 04 02:20	120 002112	1022121
minimum elong	3336 Aug 19 19:18	28° Ω 14'02	1-42.09	superior conj	3337 Aug 04 02:30	13° Ω 03'13	1°33'31
n 4 "	3336 Aug 20 15:36	0° mp	1.24625 : **	minimum elong	3337 Aug 04 00:31		1°33'19
max. Earth dist.	3336 Aug 23 16:02	6° Mp 11'54	1.34835 AU	max. Earth dist.	3337 Aug 06 13:59	18° Ω 20'19	1.33533 AU
evening rise	3336 Aug 28 02:00	14° m 54'33		evening rise	3337 Aug 11 16:22	28° Ω 49'58	
	3336 Sep 05 09:39	0∘ ⊽			3337 Aug 12 06:28	0° m)	
desc. node	3336 Sep 12 13:53	11° ≙ 39'10			3337 Aug 29 12:53	0∘ ত	
	3336 Sep 25 22:18	0° M ₊		desc. node	3337 Aug 30 10:56	1° ≏ 21'47	
	=						
evening max el	3336 Oct 02 06:31	6°M52'35	26°50'20	evening max el	3337 Sep 14 18:19	20° ≙ 14'22	27°21'27

ratra ara da	2227 Sam 20 06:40	27° ≏ 32'44		avanina riaa	2220 Jul 26 15:55	13° Ω 11'43	
retrograde	3337 Sep 28 06:48 3337 Oct 05 08:30	21° 2 52' 44 24° 2 51'32		evening rise	3338 Jul 26 15:55 3338 Aug 04 09:28	0° Mp	
evening set min. Earth dist.	3337 Oct 03 08:30 3337 Oct 09 02:19	24 ≗ 31 32 21° £ 26'01	0.64328 AU	desc. node	3338 Aug 17 07:56	رابا 0 20° ا¶ 27′36	
inferior conj	3337 Oct 19 02.19 3337 Oct 11 11:32	18° £ 54'05		desc. node	3338 Aug 25 01:32	0° ⊡	
minimum elong		18° ⊆ 34'03		avanina may al	•	0 == 3° ჲ 08'34	27922110
-	3337 Oct 11 16:05 3337 Oct 18 00:50	18 ≗ 41 39 13° £ 28'53	2 43 40	evening max el	3338 Aug 28 03:41 3338 Sep 10 22:21	10° £ 24'28	27 23 19
morning rise		13 ≗ 28 33 12° £ 57'25		retrograde			
asc. node direct	3337 Oct 19 23:33 3337 Oct 20 14:17	12° 2 37′23 12° 2 55′28		evening set min. Earth dist.	3338 Sep 18 03:01	7° £ 54'55 4° £ 58'37	0.62583 AU
		12 ≗ 33 28 16° £ 21'29	17°56'06	inferior conj	3338 Sep 21 17:32	2° £ 14'59	
morning max el	3337 Oct 27 02:28		17 30 00	-	3338 Sep 24 14:27		
. ,	3337 Nov 05 20:47	0°M		minimum elong	3338 Sep 24 20:06	2° Ω 01'31	3°41'15
morning set	3337 Nov 13 06:26	12°M27'08			3338 Sep 27 01:35	30°R Mp 270 m⋅ 07/51	
	3337 Nov 23 18:37	0° ∡		morning rise	3338 Oct 01 14:45	27° m 07'51	
	222731 26 11 27	40.70.410.4	0000105	direct	3338 Oct 04 00:30	26° Mp 41'38	
superior conj	3337 Nov 26 11:37	4° 🖈 24'04		asc. node	3338 Oct 06 20:36	27° m 19'09	
minimum elong	3337 Nov 26 11:35	4° 🖈 23'54	0°00'24		3338 Oct 10 14:58	0∘ ⊽	17051107
behind sun begin	3337 Nov 26 01:23	3°× 7 42'40		morning max el	3338 Oct 10 18:35	0° Ω 08'51	17°51'06
behind sun end	3337 Nov 26 21:47	5° ₹ 05'03		morning set	3338 Oct 26 20:22	25° Ω 10'04	
desc. node	3337 Nov 26 10:11	4° ≯ 18'12			3338 Oct 29 13:35	0°M	
max. Earth dist.	3337 Dec 01 11:26	12°×23'13	1.44656 AU				
evening rise	3337 Dec 12 15:15	29° ₹ 47'22		superior conj	3338 Nov 07 03:49	14°M54'25	
	3337 Dec 12 18:32	0° ろ		minimum elong	3338 Nov 07 07:30	15° ™ 09'57	0°41'11
greatest brilliancy	3337 Dec 26 23:48	21° る 29'30	-0.6m	desc. node	3338 Nov 13 07:13	25°M05'33	
	3338 Jan 01 23:17	0° ≈		max. Earth dist.	3338 Nov 14 02:49	26°M25'05	1.43445 AU
evening max el	3338 Jan 08 18:11	8° ≈ 17'59	20°15'02		3338 Nov 16 08:14	0° ∡ 7	
asc. node	3338 Jan 15 22:51	12° ≈ 51'56		evening rise	3338 Nov 22 01:11	8° ≯ 59'21	
retrograde	3338 Jan 16 14:28	12° ≈ 54'16			3338 Dec 06 00:11	0°ಕ	
evening set	3338 Jan 20 09:14	11° ≈ 31′09		evening max el	3338 Dec 22 16:27	21° る 50'04	21°24'10
inferior conj	3338 Jan 25 18:48	5° ≈ 26′00	2°51'55	retrograde	3338 Dec 31 12:02	27° る 04'09	
minimum elong	3338 Jan 25 16:18	5° ≈ 34'27	2°51'18	asc. node	3339 Jan 02 19:51	26° る 34'33	
min. Earth dist.	3338 Jan 26 13:17	4° ≈ 23'28	0.67223 AU	evening set	3339 Jan 04 16:50	25° පි 25'46	
	3338 Jan 30 03:26	30°₽₹		inferior conj	3339 Jan 10 01:13	19° る 10'26	2°15'40
morning rise	3338 Jan 30 23:09	29° る 12'15		minimum elong	3339 Jan 09 22:47	19°る18'53	2°14'53
direct	3338 Feb 05 17:10	26° පි 38'20		min. Earth dist.	3339 Jan 10 07:25	18° る 49'00	0.67775 AU
	3338 Feb 13 08:37	0° ≈		morning rise	3339 Jan 15 04:31	12° る 57'56	
morning max el	3338 Feb 17 06:43	3° ≈ 33'02	24°47'02	direct	3339 Jan 20 07:51	10°る44'00	
desc. node	3338 Feb 22 09:23	9° ≈ 14'36		morning max el	3339 Jan 30 15:32	16° る 52'13	23°18'24
	3338 Mar 09 12:09	0° ∀		desc. node	3339 Feb 09 06:24	28° る 20'44	
morning set	3338 Mar 25 08:44	25° ¥ 57'39			3339 Feb 10 12:04	0° ≈	
	3338 Mar 27 14:53	0 ° Υ			3339 Mar 02 13:32	0° ∀	
max. Earth dist.	3338 Mar 29 00:02	2° Ƴ 31'04	1.37162 AU	morning set	3339 Mar 06 15:00	6°) 42'41	
				max. Earth dist.	3339 Mar 10 18:38	13°) 48′43	1.39308 AU
superior conj	3338 Apr 04 13:49	14° Ƴ 58'32	-1°25'28				
minimum elong	3338 Apr 04 18:06	15° Ƴ 19'26	1°24'51	superior conj	3339 Mar 18 09:27	27° ₩ 30'54	-1°48'38
	3338 Apr 12 02:57	0°8		minimum elong	3339 Mar 18 13:57	27° ℋ 51'46	1°48'13
evening rise	3338 Apr 13 01:29	1° 8 52'45			3339 Mar 19 17:25	$0^{\circ}\Upsilon$	
asc. node	3338 Apr 13 22:12	3° 8 36'00		evening rise	3339 Mar 27 19:31	15° Y 28'36	
evening max el	3338 Apr 29 23:56	29° 8 21'37	19°22'48	asc. node	3339 Mar 31 19:12	23° Y 04'41	
	3338 Apr 30 16:19	Π $^{\circ}0$			3339 Apr 04 15:28	8° 0	
retrograde	3338 May 09 06:30	3° Ⅱ 51'41		evening max el	3339 Apr 13 01:23	11° 8 39'01	18°37'48
evening set	3338 May 11 06:55	3° Ⅱ 39'50		retrograde	3339 Apr 20 22:04	15° 8 30'18	
	3338 May 19 02:38	30° ₹ 8		evening set	3339 Apr 23 04:28	15° 8 12'13	
inferior conj	3338 May 19 19:22	29° 8 32'48	0°27'02	inferior conj	3339 Apr 30 21:01	10° 8 46'55	1°59'50
minimum elong	3338 May 19 20:30	29° 8 30'56	0°26'37	minimum elong	3339 May 01 00:41	10° 8 39'54	1°58'45
desc. node	3338 May 21 08:36	28° 8 31'43		min. Earth dist.	3339 May 04 05:56	8° 8 13'45	0.57744 AU
min. Earth dist.	3338 May 22 12:16	27° 8 47'07	0.56014 AU	desc. node	3339 May 08 05:37	5° 8 43'46	
morning rise	3338 May 28 07:08	24° 8 48'32		morning rise	3339 May 08 17:45	5° ႘ 28'58	
direct	3338 Jun 02 00:28	23° 8 57'39		direct	3339 May 14 11:13	4° 8 06'51	
	3338 Jun 14 22:13	$\Pi^{\circ}0$		morning max el	3339 May 28 20:02	11° 8 42'40	26°33'00
morning max el	3338 Jun 16 03:44	1° Ⅱ 07'59	25°06'44		3339 Jun 12 01:04	$\Pi^{\circ}0$	
=	3338 Jul 06 04:09	0ಂತ		morning set	3339 Jun 26 23:55	27° Ⅱ 40′16	
asc. node	3338 Jul 10 21:26	9° 5 21'58		asc. node	3339 Jun 27 18:29	29° Ⅱ 18'32	
morning set	3338 Jul 12 13:22	12° © 50'50			3339 Jun 28 02:16	0° ©	
-							
superior conj	3338 Jul 19 12:20	27° © 56'23	1°19'39	superior conj	3339 Jul 03 23:54	12° © 52'31	1°01'23
minimum elong	3338 Jul 19 09:59	27°543'32	1°19'18	minimum elong	3339 Jul 03 21:41	12° © 40'16	1°00'59
Č	3338 Jul 20 10:59	$0^{\circ}\Omega$		max. Earth dist.	3339 Jul 04 06:24	13° © 28'21	1.32174 AU
max. Earth dist.	3338 Jul 20 19:44	0° Ω 47'40	1.32652 AU	evening rise	3339 Jul 10 21:43	27° © 50'38	
				-			

	3339 Jul 11 22:33	0 ° Ω			3340 Jul 03 02:02	$0^{\circ}\Omega$	
	3339 Jul 28 18:50	0° ™		desc. node	3340 Jul 21 01:56	25° Ω 42'23	
desc. node	3339 Aug 04 04:56	8° m 41'41		evening max el	3340 Jul 22 05:09	26° Ω 49'18	25°48'54
evening max el	3339 Aug 10 08:04	15° m 23'05	26°52'09		3340 Jul 25 23:08	0° ™	
retrograde	3339 Aug 24 06:11	22° Tp 34'46		retrograde	3340 Aug 05 04:40	3° m 57'06	
evening set	3339 Aug 31 04:34	20° Tp 29'48		evening set	3340 Aug 11 08:16	2°m/27'18	
min. Earth dist.	3339 Sep 03 22:14	17° TQ 51'26			3340 Aug 15 11:40	30°R Ω	
inferior conj	3339 Sep 07 03:27	15° Mp 10'30		min. Earth dist.	3340 Aug 15 17:22	29° Ω 50′09	0.58534 AU
minimum elong	3339 Sep 07 08:46	14° m 59'21	4°30'47	inferior conj	3340 Aug 18 22:54	27° Ω 30′05	
morning rise	3339 Sep 14 14:51	10° To 24'30		minimum elong	3340 Aug 19 01:22	27° Ω 25'36	5°02'20
direct	3339 Sep 16 23:59	10° Tp 02'32		morning rise	3340 Aug 26 20:41	23° Ω 07'15	
asc. node	3339 Sep 23 17:39	13° Tp 06'48	10005104	direct	3340 Aug 29 08:14	22° Ω 47'22	10000104
morning max el	3339 Sep 24 07:30	13° m 39'11	18°05'04	morning max el	3340 Sep 06 13:59	26° Ω 43'10	18°39'24
	3339 Oct 05 09:48	0∘ ʊ		asc. node	3340 Sep 09 14:43	0° Mp 05'16	
morning set	3339 Oct 10 02:47	8° ≏ 40′21			3340 Sep 09 13:02	0°M) 220 m- 4212 4	
	2220 0-4 10 22-12	26° £ 41'28	1912/50	morning set	3340 Sep 22 20:44	22° Mp 43′24 0° <u>₽</u>	
superior conj	3339 Oct 19 22:12		1°12'59		3340 Sep 26 14:30	0-32	
minimum elong	3339 Oct 20 02:24	27° £ 00'11 0° IL	1°12'30		2240 0-4 01 12-50	00 0 2 1120	1922157
E4b 4i-4	3339 Oct 21 19:04	0°แเ 9° เ เเ.54'11	1 41720 ATT	superior conj	3340 Oct 01 13:59	9° Ω 31'20	1°32'57
max. Earth dist. desc. node	3339 Oct 27 13:34		1.41720 AU	minimum elong	3340 Oct 01 16:56	9° Ω 45'10	1°32'43
	3339 Oct 31 04:14	15°M52'12		max. Earth dist.	3340 Oct 08 19:39	22° Ω 40'45	1.39696 AU
evening rise	3339 Nov 02 00:17	18° M .50′19 0° <i>⊀</i> 7		evening rise	3340 Oct 12 21:33	29° £ 41'55 0° I L	
	3339 Nov 09 03:18	0° X '		desc. node	3340 Oct 13 01:51	6°M34'03	
evening max el	3339 Nov 30 13:34 3339 Dec 05 09:44	0 る 5° る 24'45	220/11/26	desc. node	3340 Oct 17 01:16 3340 Nov 01 13:51	0 1163403 0°×7	
•	3339 Dec 05 07:44 3339 Dec 15 07:29	11° る 17'41	22 41 20	avanina may al	3340 Nov 16 23:28	19° ∡ ¹02'08	24°01'21
retrograde evening set	3339 Dec 20 00:09	9° る 22'58		evening max el retrograde	3340 Nov 27 23:39	25° ₹ 30'25	24 01 21
asc. node	3339 Dec 20 00:09 3339 Dec 20 16:52	9 3 22 38 8° 3 45'53		evening set	3340 Nov 27 23.39 3340 Dec 03 05:35	23° x 30'23 23° x 19'15	
inferior conj	3339 Dec 20 10:32 3339 Dec 25 08:55	3°る00'58	1°32'09	asc. node	3340 Dec 05 03:55 3340 Dec 06 13:54	19° х 41'17	
minimum elong	3339 Dec 25 06:59	3° ろ 07'38	1°31'25	min. Earth dist.	3340 Dec 08 00:13	17° × ⁷ 48'01	0.67778 AU
min. Earth dist.	3339 Dec 25 00:59 3339 Dec 25 03:51	3°る18'29	0.67956 AU	inferior conj	3340 Dec 08 00:13	16° × 54'23	0.07778 AO 0°42'32
iiiii. Eartii dist.	3339 Dec 27 14:51	30°R. ₹	0.07930 AU	minimum elong	3340 Dec 08 15:04	16° × 54' 25	0°42'07
morning rise	3339 Dec 27 14:31 3339 Dec 30 13:41	26° ₹ 751'31		morning rise	3340 Dec 14 00:34	10° × 50'01	0 42 07
direct	3340 Jan 04 02:17	25°× 00'26		direct	3340 Dec 17 00:34 3340 Dec 17 23:22	9° × ⁷ 21'30	
uncet	3340 Jan 12 20:18	0°る		morning max el	3340 Dec 17 23:22 3340 Dec 25 23:34	13° ₹ 57'27	20°33'42
morning max el	3340 Jan 13 04:04	0°る19'19	21°51'36	morning max cr	3341 Jan 07 12:10	0°る	20 33 42
desc. node	3340 Jan 27 03:27	18° る 00'46	21 0100	desc. node	3341 Jan 13 00:29	8° る 04'50	
dese. Hode	3340 Feb 04 07:50	0° ≈		morning set	3341 Jan 23 17:49	24° る 23'47	
morning set	3340 Feb 14 16:25	16° ≈ 04'55		morning sec	3341 Jan 27 07:53	0°≈	
max. Earth dist.	3340 Feb 20 17:18		1.41448 AU	max. Earth dist.	3341 Feb 01 23:39	9° ≈ 00'49	1.43276 AU
	3340 Feb 23 03:15	0° ∀					
				superior conj	3341 Feb 08 10:33	19° ≈ 36'19	-2°05'39
superior conj	3340 Feb 28 10:02	9°) €07'15	-2°03'43	minimum elong	3341 Feb 08 08:29	19° ≈ 27'41	
minimum elong	3340 Feb 28 12:40	9°) 18′51		Č	3341 Feb 14 13:35	0°) €	
evening rise	3340 Mar 10 01:51	28°) €27'20		evening rise	3341 Feb 20 16:22	10°) 40′23	
C	3340 Mar 10 21:55	$0^{\circ}\mathbf{Y}$		C	3341 Mar 04 01:16	$0^{\circ}\mathbf{Y}$	
asc. node	3340 Mar 17 16:12	12° Y 10'07		asc. node	3341 Mar 04 13:13	0° Y 45′07	
evening max el	3340 Mar 26 09:42	24° Y 25'45	18°12'48	evening max el	3341 Mar 09 21:39	7° Y ′33'23	18°07'25
retrograde	3340 Apr 02 08:24	27° Y 55'06		retrograde	3341 Mar 16 09:47	10° Y ′56′22	
evening set	3340 Apr 04 21:11	27° Y ′28'02		evening set	3341 Mar 19 04:16	10° Ƴ 18'52	
inferior conj	3340 Apr 11 19:50	22° Y 41'43	2°59'57	inferior conj	3341 Mar 25 12:53	5° Y 12'09	3°30'47
minimum elong	3340 Apr 11 23:07	22° Y '34'23	2°59'17	minimum elong	3341 Mar 25 14:29	5° Y 08'05	3°30'37
min. Earth dist.	3340 Apr 15 04:54	19° Ƴ 42'33	0.59857 AU	min. Earth dist.	3341 Mar 28 11:56	2° Y 11'44	0.62008 AU
morning rise	3340 Apr 18 22:40	16° Ƴ 58'11			3341 Mar 30 22:27	30°₽ , ₩	
desc. node	3340 Apr 24 02:38	15° Y 05'18		morning rise	3341 Mar 31 23:13	29°) (12'41	
direct	3340 Apr 25 10:21	15° Ƴ 00′28		direct	3341 Apr 07 19:55	26°) (44′23	
morning max el	3340 May 09 18:15	22° Y 50'40	27°30'25	desc. node	3341 Apr 10 23:40	27°) 13′00	
	3340 May 16 02:50	0° ႘			3341 Apr 16 11:03	0° Y	
	3340 Jun 04 02:51	$\Pi^{\circ}0$		morning max el	3341 Apr 21 22:52	4° Y 41'55	27°51'14
morning set	3340 Jun 10 07:33	12° Ⅱ 19′02			3341 May 10 20:47	0°8	
asc. node	3340 Jun 13 15:31	19° Ⅱ 23′06		morning set	3341 May 25 10:21	26° 8 41'05	
					3341 May 27 01:01	$\Pi^{\circ}0$	
superior conj	3340 Jun 17 11:29	27° Ⅱ 45′28	0°39'24	max. Earth dist.	3341 May 31 03:29	8° Ⅱ 42'29	1.32412 AU
minimum elong	3340 Jun 17 09:50	27° Ⅱ 36′23	0°39'04	asc. node	3341 May 31 12:33	9° Ⅱ 31'30	
max. Earth dist.	3340 Jun 16 18:18	26° Ⅱ 10′58	1.32091 AU				
	3340 Jun 18 11:54	0 \circ \odot		superior conj	3341 Jun 01 21:23	12° Ⅱ 29'53	0°14'21
evening rise	3340 Jun 24 07:26	12° © 38'40		minimum elong	3341 Jun 01 20:43	12° Ⅱ 26′14	0°14'13

behind sun begin	3341 Jun 01 18:24	12° Ⅱ 13'38		max. Earth dist.	3342 May 14 05:44	20° 8 48'44	1.33164 AU
behind sun end	3341 Jun 01 23:02	12° Ⅱ 38'51			,	_	
evening rise	3341 Jun 08 19:04	27° Ⅱ 29'16		superior conj	3342 May 17 03:43	26° 8 58'58	-0°13'01
C	3341 Jun 09 23:37	0ංම		minimum elong	3342 May 17 04:22	27° 8 02'26	0°12'53
	3341 Jun 27 05:45	$0^{\circ}\Omega$		behind sun begin	3342 May 17 01:10	26° 8 45'22	
evening max el	3341 Jul 03 19:42	7° £ 33′01	24°21'45	behind sun end	3342 May 17 07:34	27° 8 19'32	
desc. node	3341 Jul 07 22:57	11° Ω 00'45		asc. node	3342 May 18 09:35	29° 8 38'57	
retrograde	3341 Jul 17 16:16	14° Ω 32'48			3342 May 18 13:30	$\Pi^{\circ}0$	
evening set	3341 Jul 22 12:03	13° Ω 40'47		evening rise	3342 May 24 06:41	12° Ⅱ 15'14	
min. Earth dist.	3341 Jul 28 06:30	10° Ω 46'26	0.56667 AU		3342 Jun 02 08:09	0ಂತಾ	
inferior conj	3341 Jul 30 22:19	9° Ω 05'46	-5°01'01	evening max el	3342 Jun 15 09:23	17° 9 58'14	22°45'05
minimum elong	3341 Jul 30 19:18	9° Ω 10'34	5°00'46	desc. node	3342 Jun 24 19:59	24°900'45	
morning rise	3341 Aug 08 05:11	5° Ω 03'52		retrograde	3342 Jun 28 15:27	24°534'02	
direct	3341 Aug 10 21:22	4° Ω 44'40		evening set	3342 Jul 01 22:57	24° © 09'57	
morning max el	3341 Aug 20 11:00	9° Ω 11'52	19°35'12	min. Earth dist.	3342 Jul 09 17:41	20°544'24	0.55338 AU
asc. node	3341 Aug 27 11:47	17° Ω 59'51		inferior conj	3342 Jul 11 02:52	19° © 56'49	-4°13'02
	3341 Sep 03 07:36	0° mp		minimum elong	3342 Jul 10 19:02	20°908'04	4°11'18
morning set	3341 Sep 06 22:40	7° m 09'38		morning rise	3342 Jul 19 17:23	16° © 05'31	
. 8	1			direct	3342 Jul 22 16:10	15°5645'19	
superior conj	3341 Sep 14 21:45	23° m 08'52	1°42'53	morning max el	3342 Aug 02 20:28	20°956'47	20°52'10
minimum elong	3341 Sep 14 22:56	23° m) 14'45			3342 Aug 10 07:16	0°Ω	
	3341 Sep 18 10:31	0∘ <u>⊽</u>		asc. node	3342 Aug 14 08:51	6°Ω36'54	
max. Earth dist.	3341 Sep 20 23:55	ა — 4° Ω 48'44	1.37631 AU	morning set	3342 Aug 22 05:51	21° Ω 51'02	
evening rise	3341 Sep 24 18:04	11° ≏ 38'08	1.5 / 05 1 110	morning sec	3342 Aug 26 03:56	0° m)	
desc. node	3341 Oct 03 22:17	27° ₽ 07'13			22.21148 20 03.20	v .y	
acco. noac	3341 Oct 05 17:53	0°M		superior conj	3342 Aug 29 16:49	7° m 19'50	1°44'29
	3341 Oct 27 20:49	0° × 7		minimum elong	3342 Aug 29 16:25	7° m)17'49	1°44'28
evening max el	3341 Oct 30 11:39	2° × ⁷ 42'30	25°17'12	max. Earth dist.	3342 Sep 03 08:05	16° Mp 39'13	1.35757 AU
retrograde	3341 Nov 11 11:36	9° × ⁷ 38'05	23 17 12	evening rise	3342 Sep 07 10:19	24° Mp 30'06	1.55757710
evening set	3341 Nov 17 07:29	7° ∡ 11'57		evening rise	3342 Sep 10 10:17	24 എ 30 00	
min. Earth dist.	3341 Nov 21 18:17	2° × 11'37	0.67258 AU	desc. node	3342 Sep 20 19:19	0 — 17° Ω 26'28	
inferior conj	3341 Nov 22 20:55	0° ∡ 13°03		desc. Hode	3342 Sep 29 07:34	0°M	
minimum elong	3341 Nov 22 21:13	0° х 4037	0°11'56	evening max el	3342 Oct 12 23:59	16°M23'17	26°21'37
transit middle	3341 Nov 22 21:13	0° х 1738	0°11'56	retrograde	3342 Oct 25 18:40	23°M35'01	20 21 37
transit begin	3341 Nov 22 19:20	0° ₹ 753'45	0 11 50	evening set	3342 Nov 01 03:59	20°M57'45	
transit end	3341 Nov 22 23:06	0° х 33 43		min. Earth dist.	3342 Nov 05 07:41	16°M36'26	0.66391 AU
asc. node	3341 Nov 23 10:58	0° × 103'11		inferior conj	3342 Nov 06 21:37	14°M40'43	
use. Hour	3341 Nov 23 11:58	30°RML		minimum elong	3342 Nov 06 23:31	14°M34'55	
morning rise	3341 Nov 28 11:13	24°M51'26		asc. node	3342 Nov 10 08:02	10°M48'45	1 0, 33
direct	3341 Dec 01 21:51	23°M43'05		morning rise	3342 Nov 12 19:35	8°M53'21	
morning max el	3341 Dec 09 03:00	27°M46'32	19°28'57	direct	3342 Nov 15 20:09	8°M01'32	
Ü	3341 Dec 11 04:14	0° ∡ ¹		morning max el	3342 Nov 22 13:15	11°M43'08	18°39'42
greatest brilliancy	3341 Dec 22 08:52	15° ∡ 726′02	-0.7m	C	3342 Dec 05 18:06	0° √	
desc. node	3341 Dec 30 21:32	28° ∡ ¹26′09		morning set	3342 Dec 13 09:36	12° ₹ 04'44	
	3341 Dec 31 21:52	0°ರ		desc. node	3342 Dec 17 18:34	18° ₹ 59'57	
morning set	3342 Jan 02 15:33	2° る 41'05			3342 Dec 24 18:16	8°0	
max. Earth dist.	3342 Jan 15 12:37		1.44569 AU				
				superior conj	3342 Dec 29 13:33	7° る 32'25	-1°14'33
superior conj	3342 Jan 19 09:09	28° පි 56'16	-1°49'33	minimum elong	3342 Dec 29 04:55	6° る 58'31	1°13'34
minimum elong	3342 Jan 19 01:27	28° පි 25'30	1°49'00	max. Earth dist.	3342 Dec 29 06:07	7°る03'12	1.45185 AU
	3342 Jan 20 01:04	0° ≈			3343 Jan 12 18:40	0° ≈	
evening rise	3342 Feb 02 10:39	21° ≈ 59'01		evening rise	3343 Jan 14 05:47	2° ≈ 20'17	
	3342 Feb 07 05:29	0°) €		greatest brilliancy	3343 Jan 22 05:40	15° ≈ 07'04	-0.8m
asc. node	3342 Feb 19 10:16	18°) 39′47			3343 Feb 01 04:33	0°) €	
evening max el	3342 Feb 21 10:14	20°) 53′45	18°21'02	evening max el	3343 Feb 04 20:59	4°) €21'33	18°52'38
retrograde	3342 Feb 27 21:28	24°) €23'39		asc. node	3343 Feb 06 07:19	5°) 42′25	
evening set	3342 Mar 02 21:34	23°) 34'42		retrograde	3343 Feb 11 15:29	8° ₩ 09'39	
inferior conj	3342 Mar 08 20:00	18°) €09'08	3°38'58	evening set	3343 Feb 14 21:52	7°) €08'16	
minimum elong	3342 Mar 08 19:48	18°) 09'40	3°38'57	inferior conj	3343 Feb 20 13:19	1°) €25'36	3°30'16
min. Earth dist.	3342 Mar 11 04:27	15° ¥ 28'31	0.63955 AU	minimum elong	3343 Feb 20 11:48	1°) 30′20	3°30'06
morning rise	3342 Mar 14 17:15	12°) €01'09		-	3343 Feb 21 16:48	30° ₹ ≈	
direct	3342 Mar 21 14:02	9°) 14'14		min. Earth dist.	3343 Feb 22 06:13	29° ≈ 18'40	0.65553 AU
desc. node	3342 Mar 28 20:43	11°) 46′29		morning rise	3343 Feb 26 01:19	25° ≈ 13'39	
morning max el	3342 Apr 04 07:30	17° ∺ 10′36	27°34'56	direct	3343 Mar 04 15:09	22° ≈ 22'29	
-	3342 Apr 14 23:43	0° Υ		desc. node	3343 Mar 15 17:45	28° ≈ 11'04	
	3342 May 03 16:05	9° 8		morning max el	3343 Mar 17 17:20	0°) €05'36	26°46'42
morning set	3342 May 09 05:44	10° 8 37'33			3343 Mar 17 15:07	0° ∀	

	3343 Apr 08 22:24	0°Υ		morning max el	3344 Feb 28 02:28	13°≈15'02	25°34'58
morning set	3343 Apr 22 14:30	23° Υ 58'54		desc. node	3344 Mar 01 14:46	15°≈55'22	23 34 36
morning sec	3343 Apr 25 16:56	0°8		dese. Hode	3344 Mar 12 16:00	0° \	
max. Earth dist.	3343 Apr 26 21:38	2° 8 22'40	1.34377 AU		3344 Mar 31 16:27	0° Υ	
		- 0		morning set	3344 Apr 04 08:13	6° Y 31'55	
superior conj	3343 May 01 04:21	11° 8 06'40	-0°41'38	max. Earth dist.	3344 Apr 08 02:06	13° Y ′29'42	1.36042 AU
minimum elong	3343 May 01 06:32	11° 8 17'58	0°41'13		•		
asc. node	3343 May 05 06:38	19° 8 41'46		superior conj	3344 Apr 13 20:35	24° Y 45'00	-1°10'03
evening rise	3343 May 08 16:26	26° 8 50'54		minimum elong	3344 Apr 14 00:14	25° Y 03'13	1°09'26
	3343 May 10 05:03	$\Pi^{\circ}0$			3344 Apr 16 11:02	$_{0\circ}$ 8	
evening max el	3343 May 28 06:13	28° Ⅲ 38′22	21°13'46	asc. node	3344 Apr 21 03:41	9° 8 35'27	
	3343 May 29 17:51	0 \circ \odot		evening rise	3344 Apr 21 22:09	11° 8 09'29	
retrograde	3343 Jun 09 04:58	4° 5 29'37			3344 May 02 00:06	Π $^{\circ}0$	
evening set	3343 Jun 11 11:40	4°9517'37		evening max el	3344 May 09 14:36	9° Ⅱ 54'28	19°57'44
desc. node	3343 Jun 11 17:00	4° © 15'13		retrograde	3344 May 19 20:09	14° Ⅱ 52'45	
inferior conj	3343 Jun 20 20:50	0° © 19'05		evening set	3344 May 21 19:35	14° Ⅱ 42'27	
minimum elong	3343 Jun 20 13:44	0°529'02	2°35'16	desc. node	3344 May 28 13:59	11° Ⅱ 59'38	
min. Earth dist.	3343 Jun 21 05:13	0°907'18	0.54855 AU	inferior conj	3344 May 30 18:18	10° Ⅱ 42'12	
	3343 Jun 21 10:25	30°RⅡ		minimum elong	3344 May 30 16:31	10° Ⅱ 44'54	
morning rise	3343 Jun 29 16:08	26° Ⅱ 20'50		min. Earth dist.	3344 Jun 01 18:06	9° Ⅱ 30′00	0.55334 AU
direct	3343 Jul 03 02:00	25° ∏ 55'39		morning rise	3344 Jun 08 11:33	6° Ⅱ 18'29	
	3343 Jul 13 11:33	0ං ව		direct	3344 Jun 12 15:38	5° Ⅱ 40′25	
morning max el	3343 Jul 15 18:47		22°26'36	morning max el	3344 Jun 26 10:04	12° Ⅱ 28'33	24°09'28
asc. node	3343 Aug 01 05:53	25°5546'10		_	3344 Jul 09 19:30	0°€	
	3343 Aug 03 09:49	0° N		asc. node	3344 Jul 18 02:56	15°5519'32	
morning set	3343 Aug 06 16:11	6° Ω 41'48		morning set	3344 Jul 21 03:54	21° © 37'00	
	2242 4 12 10 40	210 0 52140	1020112		3344 Jul 25 01:33	0 \circ Ω	
superior conj	3343 Aug 13 19:40	21° £ 53'40			2244 1 1 20 02 25	60 O 4211 5	1929112
minimum elong	3343 Aug 13 18:07	21° Ω 45'28		superior conj	3344 Jul 28 03:35	6° Ω 42'15	1°28'12 1°27'57
max. Earth dist.	3343 Aug 17 00:52	28° Ω 37'53	1.34232 AU	minimum elong max. Earth dist.	3344 Jul 28 01:23	6° Ω 30'19 10° Ω 56'21	1°2/5/ 1.33110 AU
ovening rise	3343 Aug 17 16:49	0° т р 8° т р 05'51			3344 Jul 30 02:42	$10^{-8} l \cdot 36 \cdot 21$ $22^{\circ} \Omega 14' 10$	1.33110 AU
evening rise	3343 Aug 21 17:49 3343 Sep 02 23:13	0₀ ம வி∩221		evening rise	3344 Aug 04 12:30 3344 Aug 08 11:12	0° m)	
desc. node	3343 Sep 07 16:21	0 == 7° £ 24'56		desc. node	3344 Aug 24 13:21	26° Mp 53'50	
evening max el	3343 Sep 25 12:33	7 = 24 30 29° £ 56′08	27°06'58	desc. Hode	3344 Aug 26 18:32	0° ⊡	
evening max er	3343 Sep 25 14:10	0° M	27 00 30	evening max el	3344 Sep 06 23:48	0 — 13° Ω 08'52	27°26'12
retrograde	3343 Oct 08 19:58	7°ML13'35		retrograde	3344 Sep 20 15:01	20° £ 25'41	27 20 12
evening set	3343 Oct 15 16:47	4°M231'31		evening set	3344 Sep 27 18:59	17° Ω 48'07	
min. Earth dist.	3343 Oct 19 14:00	0°ML46'03	0.65179 AU	min. Earth dist.	3344 Oct 01 11:02	14° £ 36'00	0.63624 AU
	3343 Oct 20 06:33	30° ₹ Ω		inferior conj	3344 Oct 04 01:20	11° ≏ 57'57	
inferior conj	3343 Oct 21 15:56	28° £ 25'44	-2°10'41	minimum elong	3344 Oct 04 06:28	11° ≏ 44'56	3°08'38
minimum elong	3343 Oct 21 19:33	28° ≏ 15'33	2°09'15	morning rise	3344 Oct 10 19:13	6° £ 39'54	
morning rise	3343 Oct 27 23:14	22° £ 51'15		direct	3344 Oct 13 06:53	6° ≏ 09'47	
asc. node	3343 Oct 28 05:06	22° ₽ 44'32		asc. node	3344 Oct 14 02:07	6° £ 12'59	
direct	3343 Oct 30 16:03	22° ≏ 12'05		morning max el	3344 Oct 19 20:31	9° ≙ 35'04	17°51'46
morning max el	3343 Nov 06 04:01	25° ≏ 41'18	18°07'03		3344 Nov 02 12:15	0° M .	
	3343 Nov 09 19:35	0° M ₊		morning set	3344 Nov 05 10:52	5°M05'38	
morning set	3343 Nov 24 09:06	22°M56'56					
	3343 Nov 28 16:01	0° ∡ ¹		superior conj	3344 Nov 17 19:35	26°M02'42	0°18'36
desc. node	3343 Dec 04 15:36	9° ∡ 741'47		minimum elong	3344 Nov 17 21:33	26° M ₁0'46	0°18'18
					3344 Nov 20 05:40	0° ⊼	
superior conj	3343 Dec 08 18:42	16° ≯ 17'10		desc. node	3344 Nov 20 12:40	0° ∡ ¹28'23	
minimum elong	3343 Dec 08 15:11	16° ₹ 03'14		max. Earth dist.	3344 Nov 23 19:37	5° ∡ ¹46'06	1.44222 AU
max. Earth dist.	3343 Dec 12 01:33	21° ∡ *28'44	1.45063 AU	evening rise	3344 Dec 03 13:08	21° ∡ 00′40	
	3343 Dec 17 12:05	0°る			3344 Dec 09 10:32	ව°0 0°3	
evening rise	3343 Dec 25 03:23	11°る52'08			3344 Dec 30 21:53	0° ≈	
,	3344 Jan 05 22:30	0° ≈	0.7	evening max el	3345 Jan 01 05:16	1°≈23'55	20°43'03
greatest brilliancy	3344 Jan 07 03:52	1°≈50'25		retrograde	3345 Jan 09 10:44	6°≈15'30	
evening max el	3344 Jan 19 03:47	17°≈52'13	19°40'44	asc. node	3345 Jan 10 01:22	6°≈13'27	
asc. node	3344 Jan 24 04:22	21°≈38'25		evening set	3345 Jan 13 09:39	4°≈45'48	
retrograde	3344 Jan 26 12:41	22°≈08'14		infani ·	3345 Jan 17 17:43	30°Rる	2027/20
evening set	3344 Jan 30 02:34 3344 Feb 04 13:40	20°≈53'17	3°08'51	inferior conj minimum elong	3345 Jan 18 18:30 3345 Jan 18 15:58	28°る35'50 28°る44'30	
inferior conj minimum elong	3344 Feb 04 13:40 3344 Feb 04 11:22	14°≈55'37 15°≈03'12	3°08'51 3°08'24	minimum elong min. Earth dist.	3345 Jan 18 15:58 3345 Jan 19 07:30		0.67513 AU
min. Earth dist.	3344 Feb 04 11:22 3344 Feb 05 15:51	13°≈29'11	0.66740 AU	morning rise	3345 Jan 23 22:06	22° る 22'37	0.07313 AU
min. Earth dist.	3344 Feb 03 15:51 3344 Feb 09 19:56	8°≈42'12	0.00740 AU	direct	3345 Jan 29 09:56	19° る 56'53	
direct	3344 Feb 15 22:01	5°≈59'25		morning max el	3345 Feb 09 10:59	19 3 3033	24°09'39
411000	5511100 15 22.01	5 14.57 25		morning max or	33 13 1 00 07 10.39	20 03200	2. 0/3/

	2245 F 1 12 15 50	00		1 1	2246 F 1 02 00 52	220750107	
	3345 Feb 12 15:59	0° ≈		desc. node	3346 Feb 03 08:53	23° る 59'07	
desc. node	3345 Feb 16 11:49	4°≈36'44			3346 Feb 07 15:46	0° ≈	
	3345 Mar 06 06:30	0° ∀		morning set	3346 Feb 25 23:41	28°≈12'48	
morning set	3345 Mar 17 05:16	18° ∺ 01'21			3346 Feb 27 01:40	0° ∀	
max. Earth dist.	3345 Mar 20 22:43	24°) ₹35'34	1.38064 AU	max. Earth dist.	3346 Mar 02 18:30	6° ∺ 13'34	1.40233 AU
	3345 Mar 23 22:03	$0^{\circ}\mathbf{\Upsilon}$					
				superior conj	3346 Mar 10 13:12	19° ¥ 55'19	
superior conj	3345 Mar 28 00:58	7° Ƴ 44'37	-1°36'01	minimum elong	3346 Mar 10 17:14	20°) (13′38	1°56'01
minimum elong	3345 Mar 28 05:31	8° Ƴ 06′23	1°35'27		3346 Mar 15 23:59	0 ° $\mathbf{\Upsilon}$	
evening rise	3345 Apr 05 21:21	25° Ƴ 03'43		evening rise	3346 Mar 20 10:58	8° Ƴ 25'57	
asc. node	3345 Apr 08 00:42	29° Ƴ 15′04		asc. node	3346 Mar 25 21:43	18° Ƴ 35′29	
	3345 Apr 08 09:58	9° 8			3346 Apr 01 22:21	$6^{\circ}B$	
evening max el	3345 Apr 22 10:27	21° 8 50'44	19°01'06	evening max el	3346 Apr 05 15:16	4° 8 22'27	18°24'43
retrograde	3345 May 01 01:21	26° 8 02'46		retrograde	3346 Apr 13 01:22	8° 8 02'43	
evening set	3345 May 03 04:00	25° 8 48'41		evening set	3346 Apr 15 10:22	7° 8 41'13	
inferior conj	3345 May 11 07:56	21° 8 34'06	1°10'19	inferior conj	3346 Apr 22 18:55	3° 8 07'11	2°29'16
minimum elong	3345 May 11 10:34	21° 8 29'29	1°09'25	minimum elong	3346 Apr 22 22:41	2° 8 59'28	2°28'17
min. Earth dist.	3345 May 14 09:37	19° 8 26'22	0.56676 AU	min. Earth dist.	3346 Apr 26 05:33	0° 8 19'42	
desc. node	3345 May 15 11:00	18° 8 45'02	0.50070110	mm. Latti dist.	3346 Apr 26 15:51	30°RY	0.50011710
morning rise	3345 May 19 13:59	16° 8 34'56		morning rise	3346 Apr 30 08:02	27° Ƴ 36'41	
direct	3345 May 24 17:36	15° 8 32'15		desc. node	3346 May 02 08:01	26° Y 43'31	
	•	22° 8 54'41	25°46'23		•	25° Υ 59'25	
morning max el	3345 Jun 08 00:37	_	25 40 23	direct	3346 May 06 10:04		
	3345 Jun 14 08:30	0° Ⅱ			3346 May 16 12:19	0° 8	27001125
1	3345 Jul 02 11:48	0.00		morning max el	3346 May 20 19:31	3° 8 43'18	2/*01/35
asc. node	3345 Jul 04 23:57	5°909'26			3346 Jun 08 22:46	0°II	
morning set	3345 Jul 05 15:21	6° © 30'23		morning set	3346 Jun 20 00:54	21° Ⅱ 16'38	
				asc. node	3346 Jun 21 21:00	25° Ⅱ 10'27	
superior conj	3345 Jul 12 14:21	21° © 37'36	1°12'23		3346 Jun 24 02:31	0°€	
minimum elong	3345 Jul 12 12:00	21° © 24'40	1°12'01				
max. Earth dist.	3345 Jul 13 11:05	23° © 31'22	1.32396 AU	superior conj	3346 Jun 27 02:10	6°533'39	0°52'29
	3345 Jul 16 10:35	$0^{\circ}\Omega$		minimum elong	3346 Jun 27 00:08	6°\$22'26	0°52'06
evening rise	3345 Jul 19 15:00	6° Ω 44'14		max. Earth dist.	3346 Jun 26 22:40	6° © 14'19	1.32086 AU
	3345 Jul 31 23:36	0° m		evening rise	3346 Jul 03 22:44	21° 5 28'06	
desc. node	3345 Aug 11 10:21	15° m 40'04			3346 Jul 08 02:41	$0 {\circ} \Omega$	
evening max el	3345 Aug 20 07:12	25° m 47'06	27°14'07		3346 Jul 26 11:05	0° m	
	3345 Aug 25 12:16	0∘ ত		desc. node	3346 Jul 29 07:20	3°M26'10	
retrograde	3345 Sep 03 03:15	3° ≏ 01'13		evening max el	3346 Aug 02 08:23	7° ™ 40'44	26°28'47
evening set	3345 Sep 10 06:50	0° ჲ 40'12		retrograde	3346 Aug 16 07:40	14° m 51'44	
	3345 Sep 11 06:21	30°R ™		evening set	3346 Aug 22 23:40	13° m 00'29	
min. Earth dist.	3345 Sep 13 21:28	27° m 53'41	0.61763 AU	min. Earth dist.	3346 Aug 26 21:50	10° m 24'56	0.59712 AU
inferior conj		250 m 00100	-4°05'08				
illicitor conj	3345 Sep 16 22:43	23 111 09 00	7 05 00	inferior conj	3346 Aug 30 04:37	7° m ,50'10	-4°47'49
minimum elong	3345 Sep 16 22:43 3345 Sep 17 04:28	23 m/0900 24° m/56'01	4°03'42	inferior conj minimum elong	=		
minimum elong	3345 Sep 17 04:28	24° m 56'01		minimum elong	3346 Aug 30 09:06	7° m/41'20	
minimum elong morning rise	3345 Sep 17 04:28 3345 Sep 24 03:49	24° m 56'01 20° m 10'48			3346 Aug 30 09:06 3346 Sep 06 20:39	7° m/41'20 3° m/14'15	
minimum elong	3345 Sep 17 04:28 3345 Sep 24 03:49 3345 Sep 26 13:00	24° m 56'01 20° m 10'48 19° m 46'40		minimum elong morning rise direct	3346 Aug 30 09:06 3346 Sep 06 20:39 3346 Sep 09 06:18	7° m 41'20 3° m 14'15 2° m 53'32	4°47'11
minimum elong morning rise direct asc. node	3345 Sep 17 04:28 3345 Sep 24 03:49 3345 Sep 26 13:00 3345 Sep 30 23:09	24° m 56'01 20° m 10'48 19° m 46'40 21° m 12'55	4°03'42	minimum elong morning rise direct morning max el	3346 Aug 30 09:06 3346 Sep 06 20:39 3346 Sep 09 06:18 3346 Sep 16 22:19	7° m 41'20 3° m 14'15 2° m 53'32 6° m 37'05	
minimum elong morning rise direct	3345 Sep 17 04:28 3345 Sep 24 03:49 3345 Sep 26 13:00 3345 Sep 30 23:09 3345 Oct 03 11:41	24° m 56'01 20° m 10'48 19° m 46'40 21° m 12'55 23° m 16'27	4°03'42	minimum elong morning rise direct	3346 Aug 30 09:06 3346 Sep 06 20:39 3346 Sep 09 06:18 3346 Sep 16 22:19 3346 Sep 17 20:12	7° m/41'20 3° m/14'15 2° m/53'32 6° m/37'05 7° m/32'35	4°47'11
minimum elong morning rise direct asc. node morning max el	3345 Sep 17 04:28 3345 Sep 24 03:49 3345 Sep 26 13:00 3345 Sep 30 23:09 3345 Oct 03 11:41 3345 Oct 08 19:22	24° M 56'01 20° M 10'48 19° M 46'40 21° M 12'55 23° M 16'27 0° Ω	4°03'42	minimum elong morning rise direct morning max el asc. node	3346 Aug 30 09:06 3346 Sep 06 20:39 3346 Sep 09 06:18 3346 Sep 16 22:19 3346 Sep 17 20:12 3346 Oct 01 19:51	7° ነው 41'20 3° ነው 14'15 2° ነው 53'32 6° ነው 37'05 7° ነው 32'35 0° Ω	4°47'11
minimum elong morning rise direct asc. node	3345 Sep 17 04:28 3345 Sep 24 03:49 3345 Sep 26 13:00 3345 Sep 30 23:09 3345 Oct 03 11:41 3345 Oct 08 19:22 3345 Oct 19 08:27	24° m 56'01 20° m 10'48 19° m 46'40 21° m 12'55 23° m 16'27 0° Ω 18° Ω 10'29	4°03'42	minimum elong morning rise direct morning max el	3346 Aug 30 09:06 3346 Sep 06 20:39 3346 Sep 09 06:18 3346 Sep 16 22:19 3346 Sep 17 20:12	7° m/41'20 3° m/14'15 2° m/53'32 6° m/37'05 7° m/32'35	4°47'11
minimum elong morning rise direct asc. node morning max el	3345 Sep 17 04:28 3345 Sep 24 03:49 3345 Sep 26 13:00 3345 Sep 30 23:09 3345 Oct 03 11:41 3345 Oct 08 19:22	24° M 56'01 20° M 10'48 19° M 46'40 21° M 12'55 23° M 16'27 0° Ω	4°03'42	minimum elong morning rise direct morning max el asc. node morning set	3346 Aug 30 09:06 3346 Sep 06 20:39 3346 Sep 09 06:18 3346 Sep 16 22:19 3346 Sep 17 20:12 3346 Oct 01 19:51 3346 Oct 02 20:14	7° ነው 41'20 3° ነው 14'15 2° ነው 53'32 6° ነው 37'05 7° ነው 32'35 0° Ω 1° Ω 55'41	4°47'11 18°17'07
minimum elong morning rise direct asc. node morning max el morning set	3345 Sep 17 04:28 3345 Sep 24 03:49 3345 Sep 26 13:00 3345 Sep 30 23:09 3345 Oct 03 11:41 3345 Oct 08 19:22 3345 Oct 19 08:27 3345 Oct 25 21:51	24° m 56'01 20° m 10'48 19° m 46'40 21° m 12'55 23° m 16'27 0° Ω 18° Ω 10'29 0° M	4°03'42 17°54'43	minimum elong morning rise direct morning max el asc. node morning set	3346 Aug 30 09:06 3346 Sep 06 20:39 3346 Sep 09 06:18 3346 Sep 16 22:19 3346 Sep 17 20:12 3346 Oct 01 19:51 3346 Oct 02 20:14	7° m 41'20 3° m 14'15 2° m 53'32 6° m 37'05 7° m 32'35 0° Ω 1° Ω 55'41	4°47'11 18°17'07
minimum elong morning rise direct asc. node morning max el morning set	3345 Sep 17 04:28 3345 Sep 24 03:49 3345 Sep 26 13:00 3345 Sep 30 23:09 3345 Oct 03 11:41 3345 Oct 08 19:22 3345 Oct 19 08:27 3345 Oct 25 21:51 3345 Oct 29 23:19	24° m 56'01 20° m 10'48 19° m 46'40 21° m 12'55 23° m 16'27 0° £ 18° £ 10'29 0° m.	4°03'42 17°54'43 0°56'23	minimum elong morning rise direct morning max el asc. node morning set	3346 Aug 30 09:06 3346 Sep 06 20:39 3346 Sep 09 06:18 3346 Sep 16 22:19 3346 Sep 17 20:12 3346 Oct 01 19:51 3346 Oct 02 20:14 3346 Oct 12 03:27 3346 Oct 12 07:15	7° m 41'20 3° m 14'15 2° m 53'32 6° m 37'05 7° m 32'35 0° <u>a</u> 1° <u>a</u> 55'41 19° <u>a</u> 22'41 19° <u>a</u> 40'00	4°47'11 18°17'07
minimum elong morning rise direct asc. node morning max el morning set superior conj minimum elong	3345 Sep 17 04:28 3345 Sep 24 03:49 3345 Sep 26 13:00 3345 Sep 30 23:09 3345 Oct 03 11:41 3345 Oct 08 19:22 3345 Oct 19 08:27 3345 Oct 25 21:51 3345 Oct 29 23:19 3345 Oct 30 03:32	24° m 56'01 20° m 10'48 19° m 46'40 21° m 12'55 23° m 16'27 0° <u>a</u> 18° <u>a</u> 10'29 0° m 7° m 07'04 7° m 25'16	4°03'42 17°54'43 0°56'23 0°55'50	minimum elong morning rise direct morning max el asc. node morning set superior conj minimum elong	3346 Aug 30 09:06 3346 Sep 06 20:39 3346 Sep 09 06:18 3346 Sep 16 22:19 3346 Sep 17 20:12 3346 Oct 01 19:51 3346 Oct 02 20:14 3346 Oct 12 03:27 3346 Oct 12 07:15 3346 Oct 18 02:49	7° ነው 41'20 3° ነው 14'15 2° ነው 53'32 6° ነው 37'05 7° ነው 32'35 0° <u>ዓ</u> 1° <u>ዓ</u> 55'41 19° <u>ዓ</u> 22'41 19° <u>ዓ</u> 40'00 0° ነሌ	4°47'11 18°17'07 1°22'46 1°22'23
minimum elong morning rise direct asc. node morning max el morning set superior conj minimum elong max. Earth dist.	3345 Sep 17 04:28 3345 Sep 24 03:49 3345 Sep 26 13:00 3345 Sep 30 23:09 3345 Oct 03 11:41 3345 Oct 08 19:22 3345 Oct 19 08:27 3345 Oct 25 21:51 3345 Oct 29 23:19 3345 Oct 30 03:32 3345 Nov 06 09:16	24° m 56'01 20° m 10'48 19° m 46'40 21° m 12'55 23° m 16'27 0° <u>a</u> 18° <u>a</u> 10'29 0° m 7° m 07'04 7° m 25'16 19° m 36'05	4°03'42 17°54'43 0°56'23	minimum elong morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist.	3346 Aug 30 09:06 3346 Sep 06 20:39 3346 Sep 09 06:18 3346 Sep 16 22:19 3346 Sep 17 20:12 3346 Oct 01 19:51 3346 Oct 02 20:14 3346 Oct 12 03:27 3346 Oct 12 07:15 3346 Oct 18 02:49 3346 Oct 19 17:15	7° 10 41'20 3° 10 14'15 2° 10 53'32 6° 10 37'05 7° 10 32'35 0° 12 1° 12 55'41 19° 12 22'41 19° 12 40'00 0° 11 2° 11 45'10	4°47'11 18°17'07
minimum elong morning rise direct asc. node morning max el morning set superior conj minimum elong	3345 Sep 17 04:28 3345 Sep 24 03:49 3345 Sep 26 13:00 3345 Sep 30 23:09 3345 Oct 03 11:41 3345 Oct 08 19:22 3345 Oct 19 08:27 3345 Oct 25 21:51 3345 Oct 29 23:19 3345 Oct 30 03:32 3345 Nov 06 09:16 3345 Nov 07 09:41	24° m 56'01 20° m 10'48 19° m 46'40 21° m 12'55 23° m 16'27 0° £ 18° £ 10'29 0° m 7° m 07'04 7° m 25'16 19° m 36'05 21° m 15'54	4°03'42 17°54'43 0°56'23 0°55'50	minimum elong morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise	3346 Aug 30 09:06 3346 Sep 06 20:39 3346 Sep 09 06:18 3346 Sep 16 22:19 3346 Sep 17 20:12 3346 Oct 01 19:51 3346 Oct 02 20:14 3346 Oct 12 07:15 3346 Oct 12 07:15 3346 Oct 18 02:49 3346 Oct 19 17:15 3346 Oct 24 10:44	7° ነ 41'20 3° ነ 14'15 2° ነ 53'32 6° ነ 37'05 7° ነ 32'35 0° Ω 1° Ω 55'41 19° Ω 22'41 19° Ω 40'00 0° ነ 10°	4°47'11 18°17'07 1°22'46 1°22'23
minimum elong morning rise direct asc. node morning max el morning set superior conj minimum elong max. Earth dist. desc. node	3345 Sep 17 04:28 3345 Sep 24 03:49 3345 Sep 26 13:00 3345 Sep 30 23:09 3345 Oct 03 11:41 3345 Oct 08 19:22 3345 Oct 19 08:27 3345 Oct 25 21:51 3345 Oct 29 23:19 3345 Oct 30 03:32 3345 Nov 06 09:16 3345 Nov 07 09:41 3345 Nov 12 20:38	24° m 56'01 20° m 10'48 19° m 46'40 21° m 12'55 23° m 16'27 0° <u>a</u> 18° <u>a</u> 10'29 0° m 7° m 07'04 7° m 25'16 19° m 36'05 21° m 15'54 0° x	4°03'42 17°54'43 0°56'23 0°55'50	minimum elong morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist.	3346 Aug 30 09:06 3346 Sep 06 20:39 3346 Sep 09 06:18 3346 Sep 16 22:19 3346 Sep 17 20:12 3346 Oct 01 19:51 3346 Oct 02 20:14 3346 Oct 12 03:27 3346 Oct 12 07:15 3346 Oct 18 02:49 3346 Oct 19 17:15 3346 Oct 24 10:44 3346 Oct 25 06:42	7° m 41'20 3° m 14'15 2° m 53'32 6° m 37'05 7° m 32'35 0° Ω 1° Ω 55'41 19° Ω 22'41 19° Ω 40'00 0° M 2° M 45'10 10° M 39'26 12° M 00'56	4°47'11 18°17'07 1°22'46 1°22'23
minimum elong morning rise direct asc. node morning max el morning set superior conj minimum elong max. Earth dist.	3345 Sep 17 04:28 3345 Sep 24 03:49 3345 Sep 26 13:00 3345 Sep 30 23:09 3345 Oct 03 11:41 3345 Oct 08 19:22 3345 Oct 19 08:27 3345 Oct 25 21:51 3345 Oct 29 23:19 3345 Oct 30 03:32 3345 Nov 06 09:16 3345 Nov 07 09:41 3345 Nov 12 20:38 3345 Nov 13 02:53	24° m 56'01 20° m 10'48 19° m 46'40 21° m 12'55 23° m 16'27 0° \(\Omega\) 18° \(\Omega\) 10'29 0° m 7° m 07'04 7° m 25'16 19° m 36'05 21° m 15'54 0° \(\nabla\) 0° \(\nabla\) 24'37	4°03'42 17°54'43 0°56'23 0°55'50	minimum elong morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise desc. node	3346 Aug 30 09:06 3346 Sep 06 20:39 3346 Sep 09 06:18 3346 Sep 16 22:19 3346 Sep 17 20:12 3346 Oct 01 19:51 3346 Oct 02 20:14 3346 Oct 12 07:15 3346 Oct 12 07:15 3346 Oct 18 02:49 3346 Oct 19 17:15 3346 Oct 24 10:44 3346 Oct 25 06:42 3346 Nov 05 20:31	7° m 41'20 3° m 14'15 2° m 53'32 6° m 37'05 7° m 32'35 0° Ω 1° Ω 55'41 19° Ω 40'00 0° M 2° M 45'10 10° M 39'26 12° M 00'56 0° 🗷	4°47'11 18°17'07 1°22'46 1°22'23 1.40875 AU
minimum elong morning rise direct asc. node morning max el morning set superior conj minimum elong max. Earth dist. desc. node evening rise	3345 Sep 17 04:28 3345 Sep 24 03:49 3345 Sep 26 13:00 3345 Sep 30 23:09 3345 Oct 03 11:41 3345 Oct 08 19:22 3345 Oct 19 08:27 3345 Oct 25 21:51 3345 Oct 29 23:19 3345 Oct 30 03:32 3345 Nov 06 09:16 3345 Nov 07 09:41 3345 Nov 12 20:38 3345 Nov 13 02:53 3345 Dec 03 00:59	24° \$\mathbf{m} 56'01 20° \$\mathbf{m} 10'48 19° \$\mathbf{m} 46'40 21° \$\mathbf{m} 12'55 23° \$\mathbf{m} 16'27 0° \$\mathbf{n}\$ 18° \$\mathbf{n} 10'29 0° \$\mathbf{m}\$ 7° \$\mathbf{m} 07'04 7° \$\mathbf{m} 25'16 19° \$\mathbf{m} 36'05 21° \$\mathbf{m} 15'54 0° \$n\$ 0° \$n\$ 24'37 0° \$n\$	4°03'42 17°54'43 0°56'23 0°55'50 1.42760 AU	minimum elong morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise	3346 Aug 30 09:06 3346 Sep 06 20:39 3346 Sep 09 06:18 3346 Sep 16 22:19 3346 Sep 17 20:12 3346 Oct 01 19:51 3346 Oct 02 20:14 3346 Oct 12 03:27 3346 Oct 12 07:15 3346 Oct 18 02:49 3346 Oct 19 17:15 3346 Oct 24 10:44 3346 Oct 25 06:42 3346 Nov 05 20:31 3346 Nov 27 16:34	7° m 41'20 3° m 14'15 2° m 53'32 6° m 37'05 7° m 32'35 0° Ω 1° Ω 55'41 19° Ω 40'00 0° M 2° M 45'10 10° M 39'26 12° M 00'56 0° 7' 28° 7' 31'56	4°47'11 18°17'07 1°22'46 1°22'23 1.40875 AU
minimum elong morning rise direct asc. node morning max el morning set superior conj minimum elong max. Earth dist. desc. node evening rise evening max el	3345 Sep 17 04:28 3345 Sep 24 03:49 3345 Sep 26 13:00 3345 Sep 30 23:09 3345 Oct 03 11:41 3345 Oct 08 19:22 3345 Oct 19 08:27 3345 Oct 25 21:51 3345 Oct 29 23:19 3345 Oct 30 03:32 3345 Nov 06 09:16 3345 Nov 12 20:38 3345 Nov 13 02:53 3345 Dec 03 00:59 3345 Dec 15 01:10	24° \$\mathbf{m} 56'01 20° \$\mathbf{m} 10'48 19° \$\mathbf{m} 46'40 21° \$\mathbf{m} 12'55 23° \$\mathbf{m} 16'27 0° \$\mathbf{n}\$ 18° \$\mathbf{n} 10'29 0° \$\mathbf{m}\$ 7° \$\mathbf{m} 07'04 7° \$\mathbf{m} 25'16 19° \$\mathbf{m} 36'05 21° \$\mathbf{m} 15'54 0° \$n\$ 0° \$n\$ 24'37 0° \$n\$ 14° \$S 56'43	4°03'42 17°54'43 0°56'23 0°55'50	minimum elong morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise desc. node evening max el	3346 Aug 30 09:06 3346 Sep 06 20:39 3346 Sep 09 06:18 3346 Sep 16 22:19 3346 Sep 17 20:12 3346 Oct 01 19:51 3346 Oct 02 20:14 3346 Oct 12 03:27 3346 Oct 12 07:15 3346 Oct 18 02:49 3346 Oct 19 17:15 3346 Oct 24 10:44 3346 Oct 25 06:42 3346 Nov 05 20:31 3346 Nov 27 16:34 3346 Nov 29 05:13	7° \$\mathbf{m}\delta 1'20 3° \$\mathbf{m}\delta 1'15 2° \$\mathbf{m}\delta 3''05 7° \$\mathbf{m}\delta 2''35 0° \$\mathbf{n}\delta 2''541 19° \$\mathbf{n}\delta 2''41 19° \$\mathbf{n}\delta 40''00 0° \$\mathbf{m}\delta 2'' \$\mathbf{m}\delta 3''26 12° \$\mathbf{m}\delta 0''56 0° \$n\delta 2''\delta 3''156 0° \$n\delta 3''156 0° \$n\delta 3''156	4°47'11 18°17'07 1°22'46 1°22'23 1.40875 AU
minimum elong morning rise direct asc. node morning max el morning set superior conj minimum elong max. Earth dist. desc. node evening rise evening max el retrograde	3345 Sep 17 04:28 3345 Sep 24 03:49 3345 Sep 26 13:00 3345 Sep 30 23:09 3345 Oct 03 11:41 3345 Oct 08 19:22 3345 Oct 19 08:27 3345 Oct 25 21:51 3345 Oct 29 23:19 3345 Oct 30 03:32 3345 Nov 06 09:16 3345 Nov 07 09:41 3345 Nov 12 20:38 3345 Nov 13 02:53 3345 Dec 03 00:59 3345 Dec 15 01:10 3345 Dec 24 07:43	24° か56'01 20° か10'48 19° か46'40 21° か12'55 23° か16'27 0° 亞 18° 亞10'29 0° M 7° M 07'04 7° M 25'16 19° M 36'05 21° M 15'54 0° ズ 0° ズ 24'37 0° 云 14° 云 56'43 20° 云 27'54	4°03'42 17°54'43 0°56'23 0°55'50 1.42760 AU	minimum elong morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise desc. node evening max el retrograde	3346 Aug 30 09:06 3346 Sep 06 20:39 3346 Sep 09 06:18 3346 Sep 16 22:19 3346 Sep 17 20:12 3346 Oct 01 19:51 3346 Oct 02 20:14 3346 Oct 12 03:27 3346 Oct 12 07:15 3346 Oct 18 02:49 3346 Oct 19 17:15 3346 Oct 24 10:44 3346 Oct 25 06:42 3346 Nov 05 20:31 3346 Nov 27 16:34 3346 Nov 29 05:13 3346 Dec 08 02:02	7° ሺ 41'20 3° ሺ 14'15 2° ሺ 53'32 6° ሺ 37'05 7° ሺ 32'35 0° Ω 1° Ω 55'41 19° Ω 40'00 0° ሺ 2° ሺ 45'10 10° ሺ 39'26 12° ሺ 00'56 0° ጃ' 28° ጃ'31'56 0° ℧ 4° ℧ 41'23	4°47'11 18°17'07 1°22'46 1°22'23 1.40875 AU
minimum elong morning rise direct asc. node morning max el morning set superior conj minimum elong max. Earth dist. desc. node evening rise evening max el retrograde asc. node	3345 Sep 17 04:28 3345 Sep 24 03:49 3345 Sep 26 13:00 3345 Sep 30 23:09 3345 Oct 03 11:41 3345 Oct 08 19:22 3345 Oct 19 08:27 3345 Oct 25 21:51 3345 Oct 29 23:19 3345 Oct 30 03:32 3345 Nov 06 09:16 3345 Nov 07 09:41 3345 Nov 12 20:38 3345 Nov 13 02:53 3345 Dec 03 00:59 3345 Dec 15 01:10 3345 Dec 24 07:43 3345 Dec 27 22:23	24° № 56'01 20° № 10'48 19° № 46'40 21° № 12'55 23° № 16'27 0° 亞 18° 亞 10'29 0° № 7° № 07'04 7° № 25'16 19° № 36'05 21° № 15'54 0° ズ 0° ズ 24'37 0° 云 14° 云 56'43 20° 云 27'54 19° 집 17'26	4°03'42 17°54'43 0°56'23 0°55'50 1.42760 AU	minimum elong morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set	3346 Aug 30 09:06 3346 Sep 06 20:39 3346 Sep 09 06:18 3346 Sep 16 22:19 3346 Sep 17 20:12 3346 Oct 01 19:51 3346 Oct 02 20:14 3346 Oct 12 03:27 3346 Oct 12 07:15 3346 Oct 18 02:49 3346 Oct 19 17:15 3346 Oct 24 10:44 3346 Oct 25 06:42 3346 Nov 05 20:31 3346 Nov 27 16:34 3346 Nov 29 05:13 3346 Dec 08 02:02 3346 Dec 13 00:05	7° \$\mathbf{m}\delta 1'20 3° \$\mathbf{m}\delta 1'15 2° \$\mathbf{m}\delta 3'32 6° \$\mathbf{m}\delta 37'05 7° \$\mathbf{m}\delta 2'35 0° \$\mathbf{n}\delta 2'55'41 19° \$\mathbf{n}\delta 2'2'41 19° \$\mathbf{n}\delta 40'00 0° \$\mathbf{m}\delta 2'\mathbf{m}\delta 5'10 10° \$\mathbf{m}\delta 9'26 12° \$\mathbf{m}\delta 0'56 0° \$\mathbf{n}\delta 28' \$\mathbf{n}\delta 1'23 2° \$\mathbf{d}\delta 39'44	4°47'11 18°17'07 1°22'46 1°22'23 1.40875 AU
minimum elong morning rise direct asc. node morning max el morning set superior conj minimum elong max. Earth dist. desc. node evening rise evening max el retrograde asc. node evening set	3345 Sep 17 04:28 3345 Sep 24 03:49 3345 Sep 26 13:00 3345 Sep 30 23:09 3345 Oct 03 11:41 3345 Oct 08 19:22 3345 Oct 19 08:27 3345 Oct 25 21:51 3345 Oct 29 23:19 3345 Oct 30 03:32 3345 Nov 06 09:16 3345 Nov 07 09:41 3345 Nov 12 20:38 3345 Nov 13 02:53 3345 Dec 03 00:59 3345 Dec 15 01:10 3345 Dec 24 07:43 3345 Dec 27 22:23 3345 Dec 28 17:22	24° № 56'01 20° № 10'48 19° № 46'40 21° № 12'55 23° № 16'27 0° ₽ 18° ₽ 10'29 0° № 7° № 07'04 7° № 25'16 19° № 36'05 21° № 15'54 0° ¾ 24'37 0° ♂ 27'54 19° ♂ 17'26 18° ♂ 42'30	4°03'42 17°54'43 0°56'23 0°55'50 1.42760 AU	minimum elong morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise desc. node evening max el retrograde	3346 Aug 30 09:06 3346 Sep 06 20:39 3346 Sep 09 06:18 3346 Sep 16 22:19 3346 Sep 17 20:12 3346 Oct 01 19:51 3346 Oct 02 20:14 3346 Oct 12 03:27 3346 Oct 12 07:15 3346 Oct 18 02:49 3346 Oct 19 17:15 3346 Oct 24 10:44 3346 Oct 25 06:42 3346 Nov 05 20:31 3346 Nov 27 16:34 3346 Nov 29 05:13 3346 Dec 08 02:02 3346 Dec 13 00:05 3346 Dec 14 19:25	7° m 41'20 3° m 14'15 2° m 53'32 6° m 37'05 7° m 32'35 0° 亞 1° 亞 55'41 19° 亞 22'41 19° 亞 40'00 0° m 2° m 45'10 10° m 39'26 12° m 00'56 0° ズ 28° ズ 31'56 0° 云 4° 云 41'23 2° 云 39'44 0° 云 53'04	4°47'11 18°17'07 1°22'46 1°22'23 1.40875 AU
minimum elong morning rise direct asc. node morning max el morning set superior conj minimum elong max. Earth dist. desc. node evening rise evening max el retrograde asc. node evening set inferior conj	3345 Sep 17 04:28 3345 Sep 24 03:49 3345 Sep 26 13:00 3345 Sep 30 23:09 3345 Oct 03 11:41 3345 Oct 08 19:22 3345 Oct 19 08:27 3345 Oct 25 21:51 3345 Oct 29 23:19 3345 Oct 30 03:32 3345 Nov 06 09:16 3345 Nov 07 09:41 3345 Nov 12 20:38 3345 Nov 13 02:53 3345 Dec 03 00:59 3345 Dec 24 07:43 3345 Dec 24 07:43 3345 Dec 28 17:22 3346 Jan 03 01:42	24° № 56'01 20° № 10'48 19° № 46'40 21° № 12'55 23° № 16'27 0° ₽ 18° ₽ 10'29 0° № 7° № 07'04 7° № 25'16 19° № 36'05 21° № 15'54 0° ¾ 24'37 0° ♂ 14° ♂ 56'43 20° ♂ 27'54 19° ♂ 17'26 18° ♂ 42'30 12° ♂ 23'36	4°03'42 17°54'43 0°56'23 0°55'50 1.42760 AU 21°56'16	minimum elong morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set asc. node	3346 Aug 30 09:06 3346 Sep 06 20:39 3346 Sep 09 06:18 3346 Sep 16 22:19 3346 Sep 17 20:12 3346 Oct 01 19:51 3346 Oct 02 20:14 3346 Oct 12 07:15 3346 Oct 12 07:15 3346 Oct 18 02:49 3346 Oct 19 17:15 3346 Oct 24 10:44 3346 Oct 25 06:42 3346 Nov 05 20:31 3346 Nov 05 20:31 3346 Nov 27 16:34 3346 Nov 29 05:13 3346 Dec 08 02:02 3346 Dec 13 00:05 3346 Dec 14 19:25 3346 Dec 15 13:36	7° № 41'20 3° № 14'15 2° № 53'32 6° № 37'05 7° № 32'35 0° 요 1° 요 55'41 19° 요 22'41 19° 요 40'00 0° № 2° № 45'10 10° № 39'26 12° № 00'56 0° % 28° % 31'56 0° % 4° 6 41'23 2° 6 39'44 0° 6 53'04 30° & %	4°47'11 18°17'07 1°22'46 1°22'23 1.40875 AU 23°15'34
minimum elong morning rise direct asc. node morning max el morning set superior conj minimum elong max. Earth dist. desc. node evening rise evening max el retrograde asc. node evening set inferior conj minimum elong	3345 Sep 17 04:28 3345 Sep 24 03:49 3345 Sep 26 13:00 3345 Sep 30 23:09 3345 Oct 03 11:41 3345 Oct 08 19:22 3345 Oct 19 08:27 3345 Oct 25 21:51 3345 Oct 29 23:19 3345 Oct 30 03:32 3345 Nov 06 09:16 3345 Nov 07 09:41 3345 Nov 12 20:38 3345 Nov 13 02:53 3345 Dec 03 00:59 3345 Dec 15 01:10 3345 Dec 24 07:43 3345 Dec 28 17:22 3346 Jan 03 01:42 3346 Jan 03 01:42 3346 Jan 02 23:26	24° № 56'01 20° № 10'48 19° № 46'40 21° № 12'55 23° № 16'27 0° ₽ 18° ₽ 10'29 0° № 7° № 25'16 19° № 36'05 21° № 15'54 0° ¾ 0° ¾ 24'37 0° ♂ 14° ♂ 56'43 20° ♂ 27'54 19° ♂ 17'26 18° ♂ 42'30 12° ♂ 23'36 12° ♂ 31'30	4°03'42 17°54'43 0°56'23 0°55'50 1.42760 AU 21°56'16 1°58'03 1°57'15	minimum elong morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set asc. node inferior conj	3346 Aug 30 09:06 3346 Sep 06 20:39 3346 Sep 09 06:18 3346 Sep 16 22:19 3346 Sep 17 20:12 3346 Oct 01 19:51 3346 Oct 02 20:14 3346 Oct 12 07:15 3346 Oct 12 07:15 3346 Oct 18 02:49 3346 Oct 19 17:15 3346 Oct 19 17:15 3346 Oct 24 10:44 3346 Oct 25 06:42 3346 Nov 05 20:31 3346 Nov 05 20:31 3346 Nov 27 16:34 3346 Nov 29 05:13 3346 Dec 08 02:02 3346 Dec 13 00:05 3346 Dec 14 19:25 3346 Dec 15 13:36 3346 Dec 18 09:24	7° m 41'20 3° m 14'15 2° m 53'32 6° m 37'05 7° m 32'35 0° 丘 1° 丘 55'41 19° 丘 22'41 19° 丘 40'00 0° M 2° M 45'10 10° M 39'26 12° M 00'56 0° ズ 28° ズ 31'56 0° 云 4° 云 41'23 2° 云 39'44 0° 云 53'04 30° R ズ 26° ズ 15'49	4°47'11 18°17'07 1°22'46 1°22'23 1.40875 AU 23°15'34
minimum elong morning rise direct asc. node morning max el morning set superior conj minimum elong max. Earth dist. desc. node evening rise evening max el retrograde asc. node evening set inferior conj minimum elong min. Earth dist.	3345 Sep 17 04:28 3345 Sep 24 03:49 3345 Sep 26 13:00 3345 Sep 30 23:09 3345 Oct 03 11:41 3345 Oct 08 19:22 3345 Oct 19 08:27 3345 Oct 25 21:51 3345 Oct 29 23:19 3345 Oct 30 03:32 3345 Nov 06 09:16 3345 Nov 07 09:41 3345 Nov 12 20:38 3345 Nov 12 20:38 3345 Nov 13 02:53 3345 Dec 03 00:59 3345 Dec 15 01:10 3345 Dec 24 07:43 3345 Dec 28 17:22 3346 Jan 03 01:42 3346 Jan 03 02:56	24° № 56'01 20° № 10'48 19° № 46'40 21° № 12'55 23° № 16'27 0° ₽ 18° ₽ 10'29 0° № 7° № 25'16 19° № 36'05 21° № 15'54 0° ¾ 0° ¾ 24'37 0° ♂ 14° ♂ 56'43 20° ♂ 27'54 19° ♂ 17'26 18° ♂ 42'30 12° ♂ 31'30 12° ♂ 31'30 12° ♂ 19'20	4°03'42 17°54'43 0°56'23 0°55'50 1.42760 AU 21°56'16	minimum elong morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set asc. node inferior conj minimum elong	3346 Aug 30 09:06 3346 Sep 06 20:39 3346 Sep 09 06:18 3346 Sep 16 22:19 3346 Sep 17 20:12 3346 Oct 01 19:51 3346 Oct 02 20:14 3346 Oct 12 07:15 3346 Oct 12 07:15 3346 Oct 18 02:49 3346 Oct 19 17:15 3346 Oct 19 17:15 3346 Oct 24 10:44 3346 Oct 25 06:42 3346 Nov 05 20:31 3346 Nov 27 16:34 3346 Nov 29 05:13 3346 Dec 08 02:02 3346 Dec 13 00:05 3346 Dec 14 19:25 3346 Dec 18 09:24 3346 Dec 18 09:24 3346 Dec 18 07:49	7° m 41'20 3° m 14'15 2° m 53'32 6° m 37'05 7° m 32'35 0° 丘 1° 丘 55'41 19° 丘 22'41 19° 丘 40'00 0° M 2° M 45'10 10° M 39'26 12° M 00'56 0° ズ 28° ズ 31'56 0° 云 4° 云 41'23 2° 云 39'44 0° 云 53'04 30° R ズ 26° ズ 15'49 26° ズ 21'15	4°47'11 18°17'07 1°22'46 1°22'23 1.40875 AU 23°15'34 1°11'49 1°11'11
minimum elong morning rise direct asc. node morning max el morning set superior conj minimum elong max. Earth dist. desc. node evening rise evening max el retrograde asc. node evening set inferior conj minimum elong	3345 Sep 17 04:28 3345 Sep 24 03:49 3345 Sep 26 13:00 3345 Sep 30 23:09 3345 Oct 03 11:41 3345 Oct 08 19:22 3345 Oct 19 08:27 3345 Oct 25 21:51 3345 Oct 29 23:19 3345 Oct 30 03:32 3345 Nov 06 09:16 3345 Nov 07 09:41 3345 Nov 12 20:38 3345 Nov 13 02:53 3345 Dec 03 00:59 3345 Dec 15 01:10 3345 Dec 24 07:43 3345 Dec 27 22:23 3345 Dec 28 17:22 3346 Jan 03 01:42 3346 Jan 03 02:56 3346 Jan 03 02:56 3346 Jan 08 05:20	24° № 56'01 20° № 10'48 19° № 46'40 21° № 12'55 23° № 16'27 0° ₽ 18° ₽ 10'29 0° № 7° № 25'16 19° № 36'05 21° № 15'54 0° ጾ 0° ጾ 24'37 0° ℧ 14° ℧ 56'43 20° ℧ 27'54 19° ℧ 17'26 18° ℧ 42'30 12° ℧ 23'36 12° ℧ 31'30 12° ℧ 12'10	4°03'42 17°54'43 0°56'23 0°55'50 1.42760 AU 21°56'16 1°58'03 1°57'15	minimum elong morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set asc. node inferior conj	3346 Aug 30 09:06 3346 Sep 06 20:39 3346 Sep 09 06:18 3346 Sep 16 22:19 3346 Sep 17 20:12 3346 Oct 01 19:51 3346 Oct 02 20:14 3346 Oct 12 07:15 3346 Oct 12 07:15 3346 Oct 18 02:49 3346 Oct 19 17:15 3346 Oct 19 17:15 3346 Oct 24 10:44 3346 Oct 25 06:42 3346 Nov 05 20:31 3346 Nov 05 20:31 3346 Nov 27 16:34 3346 Nov 29 05:13 3346 Dec 08 02:02 3346 Dec 13 00:05 3346 Dec 14 19:25 3346 Dec 15 13:36 3346 Dec 18 09:24	7° m 41'20 3° m 14'15 2° m 53'32 6° m 37'05 7° m 32'35 0° Ω 1° Ω 55'41 19° Ω 40'00 0° M 2° M 45'10 10° M 39'26 12° M 00'56 0° ズ 28° ズ 31'56 0° ズ 28° ズ 31'56 0° ズ 28° ズ 31'56 0° ズ 28° ズ 31'56 0° ズ 26° ズ 41'23 2° ズ 39'44 0° ズ 53'04 30° R ズ 26° ズ 15'49 26° ズ 21'15 26° ズ 49'00	4°47'11 18°17'07 1°22'46 1°22'23 1.40875 AU 23°15'34
minimum elong morning rise direct asc. node morning max el morning set superior conj minimum elong max. Earth dist. desc. node evening rise evening max el retrograde asc. node evening set inferior conj minimum elong min. Earth dist.	3345 Sep 17 04:28 3345 Sep 24 03:49 3345 Sep 26 13:00 3345 Sep 30 23:09 3345 Oct 03 11:41 3345 Oct 08 19:22 3345 Oct 19 08:27 3345 Oct 25 21:51 3345 Oct 29 23:19 3345 Oct 30 03:32 3345 Nov 06 09:16 3345 Nov 07 09:41 3345 Nov 12 20:38 3345 Nov 12 20:38 3345 Nov 13 02:53 3345 Dec 03 00:59 3345 Dec 15 01:10 3345 Dec 24 07:43 3345 Dec 28 17:22 3346 Jan 03 01:42 3346 Jan 03 02:56	24° № 56'01 20° № 10'48 19° № 46'40 21° № 12'55 23° № 16'27 0° ₽ 18° ₽ 10'29 0° № 7° № 25'16 19° № 36'05 21° № 15'54 0° ጾ 0° ጾ 24'37 0° ℧ 21'54 19° ℧ 17'26 18° ℧ 27'54 19° ℧ 17'26 18° ℧ 23'36 12° ℧ 31'30 12° ℧ 31'30 12° ℧ 12'10 4° ℧ 08'04	4°03'42 17°54'43 0°56'23 0°55'50 1.42760 AU 21°56'16 1°58'03 1°57'15 0.67892 AU	minimum elong morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set asc. node inferior conj minimum elong	3346 Aug 30 09:06 3346 Sep 06 20:39 3346 Sep 09 06:18 3346 Sep 16 22:19 3346 Sep 17 20:12 3346 Oct 01 19:51 3346 Oct 02 20:14 3346 Oct 12 07:15 3346 Oct 12 07:15 3346 Oct 18 02:49 3346 Oct 19 17:15 3346 Oct 19 17:15 3346 Oct 24 10:44 3346 Oct 25 06:42 3346 Nov 05 20:31 3346 Nov 27 16:34 3346 Nov 29 05:13 3346 Dec 08 02:02 3346 Dec 13 00:05 3346 Dec 14 19:25 3346 Dec 18 09:24 3346 Dec 18 09:24 3346 Dec 18 07:49	7° m 41'20 3° m 14'15 2° m 53'32 6° m 37'05 7° m 32'35 0° 丘 1° 丘 55'41 19° 丘 22'41 19° 丘 40'00 0° M 2° M 45'10 10° M 39'26 12° M 00'56 0° ズ 28° ズ 31'56 0° 云 4° 云 41'23 2° 云 39'44 0° 云 53'04 30° R ズ 26° ズ 15'49 26° ズ 21'15	4°47'11 18°17'07 1°22'46 1°22'23 1.40875 AU 23°15'34 1°11'49 1°11'11
minimum elong morning rise direct asc. node morning max el morning set superior conj minimum elong max. Earth dist. desc. node evening rise evening max el retrograde asc. node evening set inferior conj minimum elong min. Earth dist. morning rise	3345 Sep 17 04:28 3345 Sep 24 03:49 3345 Sep 26 13:00 3345 Sep 30 23:09 3345 Oct 03 11:41 3345 Oct 08 19:22 3345 Oct 19 08:27 3345 Oct 25 21:51 3345 Oct 29 23:19 3345 Oct 30 03:32 3345 Nov 06 09:16 3345 Nov 07 09:41 3345 Nov 12 20:38 3345 Nov 13 02:53 3345 Dec 03 00:59 3345 Dec 15 01:10 3345 Dec 24 07:43 3345 Dec 27 22:23 3345 Dec 28 17:22 3346 Jan 03 01:42 3346 Jan 03 02:56 3346 Jan 03 02:56 3346 Jan 08 05:20	24° № 56'01 20° № 10'48 19° № 46'40 21° № 12'55 23° № 16'27 0° ₽ 18° ₽ 10'29 0° № 7° № 25'16 19° № 36'05 21° № 15'54 0° ጾ 0° ጾ 24'37 0° ℧ 14° ℧ 56'43 20° ℧ 27'54 19° ℧ 17'26 18° ℧ 42'30 12° ℧ 23'36 12° ℧ 31'30 12° ℧ 12'10	4°03'42 17°54'43 0°56'23 0°55'50 1.42760 AU 21°56'16 1°58'03 1°57'15 0.67892 AU	minimum elong morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set asc. node inferior conj minimum elong min. Earth dist.	3346 Aug 30 09:06 3346 Sep 06 20:39 3346 Sep 09 06:18 3346 Sep 16 22:19 3346 Sep 17 20:12 3346 Oct 01 19:51 3346 Oct 02 20:14 3346 Oct 12 03:27 3346 Oct 12 07:15 3346 Oct 18 02:49 3346 Oct 19 17:15 3346 Oct 24 10:44 3346 Oct 25 06:42 3346 Nov 05 20:31 3346 Nov 27 16:34 3346 Nov 29 05:13 3346 Dec 18 02:02 3346 Dec 18 00:05 3346 Dec 14 19:25 3346 Dec 18 09:24 3346 Dec 18 07:49 3346 Dec 17 23:44	7° m 41'20 3° m 14'15 2° m 53'32 6° m 37'05 7° m 32'35 0° Ω 1° Ω 55'41 19° Ω 40'00 0° M 2° M 45'10 10° M 39'26 12° M 00'56 0° ズ 28° ズ 31'56 0° ズ 28° ズ 31'56 0° ズ 28° ズ 31'56 0° ズ 28° ズ 31'56 0° ズ 26° ズ 41'23 2° ズ 39'44 0° ズ 53'04 30° R ズ 26° ズ 15'49 26° ズ 21'15 26° ズ 49'00	4°47'11 18°17'07 1°22'46 1°22'23 1.40875 AU 23°15'34 1°11'49 1°11'11

	2247 I 05 12:20	220.727152	2191702	J J.	2240 1 00 02.50	40-202152	
morning max el	3347 Jan 05 12:20	23° ₹ 26'53	21°17'03	desc. node	3348 Jan 08 02:59	4°る02'53	
44-	3347 Jan 11 04:41	0°る 13°る50'25		morning set	3348 Jan 15 09:57	15° る 11'46 0°≈	
desc. node	3347 Jan 21 05:55			Double diet	3348 Jan 24 20:49		1 42005 ATT
	3347 Feb 01 00:44	0°≈ 7°≈ •03!19		max. Earth dist.	3348 Jan 26 04:58	2°≈08'06	1.43905 AU
morning set	3347 Feb 05 13:24 3347 Feb 12 19:39	7°≈03'18 18°≈43'37	1.42272 AU		3348 Jan 31 17:29	11° ≈ 03'41	2001114
max. Earth dist.		18 ≈ 433/	1.42272 AU	superior conj	3348 Jan 31 12:51	11 ≈0341 10°≈44'46	
	3347 Feb 19 13:05	0 K		minimum elong	3348 Feb 12 00:21	10 ≈ 44 46 0° ∀	2 01 03
superior conj	3347 Feb 20 04:05	1°) 04′20	2006/28	evening rise	3348 Feb 12 00:21 3348 Feb 13 17:31	2° ¥ 56'57	
minimum elong	3347 Feb 20 04:03 3347 Feb 20 05:04	1° X 04'20		asc. node	3348 Feb 13 17:31 3348 Feb 27 15:47	25° H 48'42	
evening rise	3347 Net 20 03:04 3347 Mar 03 11:07	21°\(\frac{1}{4}\)06'24	2 00 27	asc. node	3348 Mar 02 01:02	23 γ (4842 0° γ	
evening rise	3347 Mar 08 09:41	21 χ0024 0° Υ		evening max el	3348 Mar 02 01:02	0° Υ 34'04	18°10'57
asc. node	3347 Mar 12 18:45	7° Υ 29'23		retrograde	3348 Mar 09 00:42	3° Υ 58'04	16 10 37
		7 γ 29 23	18°08'12	•		3° Υ 15'39	
evening max el	3347 Mar 20 01:35 3347 Mar 26 18:31	17 γ 1941 20° γ 44'23	18 08 12	evening set	3348 Mar 11 21:40 3348 Mar 16 03:41	30°R)(
retrograde		20°Υ13'05		inferior conj		28° ₩ 00'47	2926124
evening set	3347 Mar 29 09:46	15° Y 18° 18	3°16'09	,	3348 Mar 18 01:31		3°36'32
inferior conj	3347 Apr 05 02:00			minimum elong	3348 Mar 18 02:20		
minimum elong	3347 Apr 05 04:38	15°Υ12'03	3°15'44	min. Earth dist.	3348 Mar 20 18:41	25° ¥ 06'45	0.62881 AU
min. Earth dist.	3347 Apr 08 07:52	12°Υ15'24	0.60786 AU	morning rise	3348 Mar 24 05:52	21°) 57'17	
morning rise	3347 Apr 11 21:29	9° Υ 26'56		direct	3348 Mar 31 03:47	19° ¥ 19'22	
direct	3347 Apr 18 14:21	7° Y 14'40		desc. node	3348 Apr 05 02:08	20°) 29′24	
desc. node	3347 Apr 19 05:04	7° ℃ 15'44		morning max el	3348 Apr 14 02:54	27°) 16'46	27°48'31
morning max el	3347 May 02 20:29	15° Y 09′22	27°43'45		3348 Apr 16 16:47	0° Ƴ	
	3347 May 14 21:38	0°B			3348 May 07 13:48	0°8	
	3347 Jun 01 09:44	$\Pi^{\circ}0$		morning set	3348 May 18 06:43	20° 8 01'11	
morning set	3347 Jun 04 06:45	5° Ⅱ 49'08			3348 May 23 02:19	$\Pi^{\circ}0$	
asc. node	3347 Jun 08 18:03	15° Ⅱ 17'17		max. Earth dist.	3348 May 23 16:23	1° Ⅱ 14'56	1.32683 AU
max. Earth dist.	3347 Jun 10 09:41	18° Ⅱ 52'46	1.32176 AU				
				superior conj	3348 May 25 21:56	6° Ⅱ 02'45	0°03'01
superior conj	3347 Jun 11 13:17	21° Ⅱ 23'57	0°29'07	minimum elong	3348 May 25 21:47	6° Ⅱ 01'59	0°02'58
minimum elong	3347 Jun 11 12:00	21° Ⅱ 16'55	0°28'52	behind sun begin	3348 May 25 16:38	5° Ⅱ 34'07	
	3347 Jun 15 11:23	0°€		behind sun end	3348 May 26 02:57	6° Ⅱ 29'53	
evening rise	3347 Jun 18 09:31	6° ॐ 18′06		asc. node	3348 May 25 15:06	5° Ⅱ 25'47	
	3347 Jun 30 19:46	$0 ^{\circ} \Omega$		evening rise	3348 Jun 01 21:24	21° Ⅱ 07'47	
evening max el	3347 Jul 15 02:28	18° Ω 47'44	25°14'04		3348 Jun 06 04:42	0ංම	
desc. node	3347 Jul 16 04:20	19° Ω 47'38		evening max el	3348 Jun 25 15:56	29°920'27	23°40'51
retrograde	3347 Jul 29 02:01	25° Ω 53'15			3348 Jun 26 08:40	$0^{\circ}\Omega$	
evening set	3347 Aug 03 17:07	24° Ω 40′15		desc. node	3348 Jul 02 01:22	4° Ω 11'56	
min. Earth dist.	3347 Aug 08 14:17	21° Ω 57'30	0.57693 AU	retrograde	3348 Jul 09 07:53	6° Ω 11'39	
inferior conj	3347 Aug 11 15:46	19° Ω 52'16	-5°06'49	evening set	3348 Jul 13 11:59	5° Ω 33'28	
minimum elong	3347 Aug 11 16:08	19° Ω 51'39	5°06'48	min. Earth dist.	3348 Jul 20 02:05	2° Ω 27'31	0.56019 AU
morning rise	3347 Aug 19 17:33	15° Ω 38'41		inferior conj	3348 Jul 22 06:42	1° £ 08'31	-4°46'55
direct	3347 Aug 22 06:41	15° Ω 19'19		minimum elong	3348 Jul 22 01:12	1° Ω 16'48	4°46'09
morning max el	3347 Aug 31 01:08	19° Ω 27'27	19°00'26		3348 Jul 24 04:59	30° ₹ 5	
asc. node	3347 Sep 04 17:17	24° Ω 56'54		morning rise	3348 Jul 30 16:57	27° © 12'41	
	3347 Sep 08 00:43	0° m		direct	3348 Aug 02 11:55	26° © 53'09	
morning set	3347 Sep 16 18:00	16° Mp 09'59			3348 Aug 10 18:54	$0^{\circ}\Omega$	
	3347 Sep 23 18:35	0∘ ত		morning max el	3348 Aug 12 17:15	1° Ω 37'46	20°05'27
				asc. node	3348 Aug 21 14:21	13° Ω 11'05	
superior conj	3347 Sep 25 02:40	2° £ 34'46	1°38'17	morning set	3348 Aug 30 22:30	0° Mp 43'54	
minimum elong	3347 Sep 25 04:53	2° ≏ 45'24	1°38'09		3348 Aug 30 13:51	o°m _p	
max. Earth dist.	3347 Oct 01 21:49	15° ≏ 13'13	1.38807 AU		C	•	
evening rise	3347 Oct 05 18:13	21° ♀ 59'55		superior conj	3348 Sep 07 15:44	16° Mp 28'00	1°44'30
Č	3347 Oct 10 12:23	0°M₊		minimum elong	3348 Sep 07 16:13	16° m 30'24	1°44'29
desc. node	3347 Oct 12 03:42	2°M39'59		max. Earth dist.	3348 Sep 13 03:31	27° m) 12'46	1.36802 AU
	3347 Oct 30 19:16	0° ∡ 7			3348 Sep 14 14:59	0∘ <u>⊽</u>	
evening max el	3347 Nov 10 05:35	12° ∡ 11'44	24°34'40	evening rise	3348 Sep 16 23:42	4° £ 21'24	
retrograde	3347 Nov 21 16:29	18° х 52'42		desc. node	3348 Sep 28 00:43	23° ₽ 08'06	
evening set	3347 Nov 27 04:13	16° х 35′11		desc. node	3348 Oct 02 11:20	0° M	
asc. node	3347 Dec 01 16:29	11° × ⁷ 28'16		evening max el	3348 Oct 22 17:53	25°M53'37	25°46'29
min. Earth dist.	3347 Dec 01 10:23	11° х 18'13	0.67595 AU		3348 Oct 27 13:45	0° ⊼ ¹	0 /
inferior conj	3347 Dec 01 15:31 3347 Dec 02 15:49	10° ₹ 10'31	0°19'57	retrograde	3348 Nov 04 02:13	2° ∡ 756'33	
minimum elong	3347 Dec 02 15:49 3347 Dec 02 15:20	10 × 1031 10° × 12'09	0°19'37	evening set	3348 Nov 10 04:02	0° ₹ 25'10	
morning rise	3347 Dec 02 13:20 3347 Dec 08 02:31	4° × ⁷ 08'40	V 12 11		3348 Nov 10 15:30	30°RM	
direct	3347 Dec 08 02:31 3347 Dec 11 19:58	2° × ⁷ 48'56		min. Earth dist.	3348 Nov 14 11:49		0.66937 AU
morning max el	3347 Dec 11 19:38 3347 Dec 19 11:06	7° ₹ 109'41	20°04'21	inferior conj	3348 Nov 15 19:08	24°ML04'14	
morning max ci	3348 Jan 05 10:26	7 x ·0941	20 0421	minimum elong	3348 Nov 15 19:06 3348 Nov 15 20:05	24°ML01'13	
	JJ¬0 Jan UJ 10.20	v		mminum ciong	JJTO 110V 1J 20.03	1100113 تــ	0 30 00

asc. node	3348 Nov 17 13:33	21°M53'12		direct	3349 Nov 08 16:09	1°M25'39	
morning rise	3348 Nov 21 12:29	18°ML10'55		morning max el	3349 Nov 15 06:10	5°M00'33	18°23'45
direct	3348 Nov 24 18:40	17°ML09'53		morning max er	3349 Dec 02 10:43	3 1160033 0° √ 1	18 23 43
			10007103	. ,			
morning max el	3348 Dec 01 17:38	21°ML02'21	19°06'03	morning set	3349 Dec 04 20:23	3° ₹ 52'17	
	3348 Dec 08 21:57	0° ∡ 7		desc. node	3349 Dec 11 21:01	15° ₹ 07'34	
morning set	3348 Dec 24 14:04	23° 🖈 51'21			22.40 D 20 00 25	200 321100	0055100
desc. node	3348 Dec 25 00:00	24° ∡ ³30′03		superior conj	3349 Dec 20 08:27	28° х 31'08	
The state of	3348 Dec 28 12:38	0°る	1 44005 477	minimum elong	3349 Dec 20 01:31	28° ₹ 03'55	0°54'34
max. Earth dist.	3349 Jan 07 20:45	16° る 11'21	1.44925 AU		3349 Dec 21 07:05	0° ろ	
		_		max. Earth dist.	3349 Dec 21 15:32	0° る 33'09	1.45224 AU
superior conj	3349 Jan 10 06:34	19° ろ 59'30		evening rise	3350 Jan 05 11:25	23° る 49'08	
minimum elong	3349 Jan 09 21:35	19° る 24'01	1°35'57		3350 Jan 09 09:40	0° ≈	
	3349 Jan 16 13:20	0° ≈		greatest brilliancy	3350 Jan 15 19:58	10° ≈ 03′27	-0.8m
evening rise	3349 Jan 25 02:06	13° ≈ 51'02		evening max el	3350 Jan 28 11:27	27° ≈ 26'32	19°11'11
	3349 Feb 03 23:39	0° ∀		asc. node	3350 Jan 31 09:52	29° ≈ 58'34	
asc. node	3349 Feb 13 12:49	13° ¥ 22'50			3350 Jan 31 10:42	0° ∀	
evening max el	3349 Feb 14 02:19	13° ¥ 58′06	18°32'20	retrograde	3350 Feb 04 11:22	1° ¥ 25'53	
retrograde	3349 Feb 20 15:35	17°) 34′22		evening set	3350 Feb 07 20:43	0° 升 18'51	
evening set	3349 Feb 23 18:19	16°) 40′04			3350 Feb 08 07:33	30°R ≈	
inferior conj	3349 Mar 01 13:23	11° ∺ 06'44	3°37'02	inferior conj	3350 Feb 13 10:00	24° ≈ 29'17	3°22'34
minimum elong	3349 Mar 01 12:34	11°) 09'10	3°37'00	minimum elong	3350 Feb 13 08:05	24° ≈ 35′26	3°22'17
min. Earth dist.	3349 Mar 03 15:04	8°) 39'33	0.64681 AU	min. Earth dist.	3350 Feb 14 20:26	22° ≈ 39'10	0.66100 AU
morning rise	3349 Mar 07 06:16	4°) 56'46		morning rise	3350 Feb 18 19:08	18° ≈ 16′14	
direct	3349 Mar 14 00:44	2°) €06'43		direct	3350 Feb 25 04:14	15° ≈ 27'29	
desc. node	3349 Mar 22 23:11	5°) 54′28		desc. node	3350 Mar 09 20:13	22° ≈ 55'58	
morning max el	3349 Mar 27 12:26	9° 升 58'25	27°18'01	morning max el	3350 Mar 09 22:19	23° ≈ 01'17	26°18'39
-	3349 Apr 12 06:05	0° Υ			3350 Mar 16 02:48	0° ∀	
	3349 Apr 29 23:28	0°8			3350 Apr 05 13:38	$0^{\circ}\mathbf{Y}$	
morning set	3349 May 01 22:05	3° 8 44'32		morning set	3350 Apr 15 01:03	16° Ƴ 46'59	
max. Earth dist.	3349 May 06 14:55	13° 8 09'46	1.33626 AU	max. Earth dist.	3350 Apr 19 02:03	24° Y 31'13	1.35027 AU
	.,				3350 Apr 21 20:19	0°8	
superior conj	3349 May 10 02:10	20° 8 24'04	-0°25'03		r		
minimum elong	3349 May 10 03:27	20° 8 30'51		superior conj	3350 Apr 23 23:32	4° 8 19'49	-0°53'49
asc. node	3349 May 12 12:08	25° 8 32'10		minimum elong	3350 Apr 24 02:21	4° 8 34'17	
ase. Hour	3349 May 14 14:18	0°II		asc. node	3350 Apr 29 09:09	15° 8 31'26	0 00 10
evening rise	3349 May 17 08:30	5° I I50'58		evening rise	3350 May 01 16:47	20° 8 19'59	
e vennig rise	3349 May 30 10:13	0°9		evening rise	3350 May 06 12:35	0°II	
evening max el	3349 Jun 07 07:44	9°548'34	22°04'48	evening max el	3350 May 20 09:03	20° ∏ 41'53	20°39'15
desc. node	3349 Jun 18 22:24	16°904'40	22 04 40	retrograde	3350 May 31 15:12	26° I I11'25	20 37 13
retrograde	3349 Jun 20 02:09	16°907'46		evening set	3350 Jun 02 16:39	26° I I01'06	
evening set	3349 Jun 20 02:09 3349 Jun 22 21:14	15°950'22		desc. node	3350 Jun 05 19:25	25° I 109'42	
min. Earth dist.	3349 Jul 01 12:54	13 3 30 22 12° 5 07'51	0.55021 AU	inferior conj	3350 Jun 11 22:57	23° I 103'42 22° I 103'34	1040101
inferior conj	3349 Jul 01 12.34 3349 Jul 02 05:20	12 9 07 31 11° 9 44'48		minimum elong	3350 Jun 11 17:53	22° I I03'54	
minimum elong	3349 Jul 02 03:20 3349 Jul 01 21:00	11°956'30	3°35'16	min. Earth dist.	3350 Jun 13 01:02	21° II 26'06	0.54937 AU
morning rise	3349 Jul 10 22:30	7°953'28	3 33 10	morning rise	3350 Jun 20 18:28	17° II 56'18	0.54957 AU
direct	3349 Jul 10 22:30 3349 Jul 14 01:20	7°931'52		direct	3350 Jun 24 10:45	17 H 30 18	
morning max el	3349 Jul 25 21:46	13°903'54	21920126	morning max el	3350 Jul 24 10:45 3350 Jul 07 16:36	23° I I50'16	22010/02
morning max er		13 3 03 34 0° Ω	21 30 30	morning max er		0°9	23 10 02
asc. node	3349 Aug 07 07:55 3349 Aug 08 11:24	0°8ℓ 2° Ω 03'20		asc. node	3350 Jul 13 06:13 3350 Jul 26 08:25	21° © 23'30	
	•	2 ∂ €03 20 15° Ω 30'39			3350 Jul 30 18:23	0° Ω 23'45	
morning set	3349 Aug 15 07:17 3349 Aug 22 04:52	0° m)		morning set		0° Ω	
	3349 Aug 22 04.32	V III			3350 Jul 30 13:52	0 86	
avmariar aani	2240 Aug 22 14:22	00 m 50126	1942/01	aumorior comi	2250 Aug 06 10:50	15° Ω 31'34	1925!10
superior conj	3349 Aug 22 14:32	0° Mp 50'26		superior conj	3350 Aug 06 19:50		
minimum elong	3349 Aug 22 13:35	0° Mp 45'31	1°42'58	minimum elong	3350 Aug 06 17:57	15° Ω 21′28	
max. Earth dist.	3349 Aug 26 15:14	9° Mp 05'34	1.35063 AU	max. Earth dist.	3350 Aug 09 11:43	21° Ω 10′39	1.33703 AU
evening rise	3349 Aug 30 22:59	17° m 33'37			3350 Aug 13 18:46	0° Mp	
	3349 Sep 06 18:52	0° 亞		evening rise	3350 Aug 14 11:39	1° mp 24'13	
desc. node	3349 Sep 14 21:44	13° Ω 19'37		daga :	3350 Aug 30 17:21	ე∘ ౮	
	3349 Sep 26 18:12	0°M,	26942120	desc. node	3350 Sep 01 18:45	3° Ω 06'42	27010125
evening max el	3349 Oct 05 06:15	9°M31'44	26~43'30	evening max el	3350 Sep 17 18:17	22° £ 56'47	2/~18'35
retrograde	3349 Oct 18 06:46	16°M46'49		, ,	3350 Sep 28 23:07	0°M	
evening set	3349 Oct 24 21:32	14°M06'16	0.65026.433	retrograde	3350 Oct 01 05:44	0°M15'21	
min. Earth dist.	3349 Oct 28 22:18	10°M00'35	0.65926 AU		3350 Oct 03 10:32	30° ₹ Ω	
inferior conj	3349 Oct 30 17:21	7°M53'33		evening set	3350 Oct 08 06:15	27° £ 33'36	0.64
minimum elong	3349 Oct 30 19:59	7°M45'47	1°34'44	min. Earth dist.	3350 Oct 12 00:52	24° £ 03'00	
asc. node	3349 Nov 04 10:36	3°M03'53		inferior conj	3350 Oct 14 08:12	21° Ω 33'44	
morning rise	3349 Nov 05 19:09	2°M11'34		minimum elong	3350 Oct 14 12:31	21° ≏ 22'05	2°34'40

morning rise	3350 Oct 20 19:55	16° Ω 06'03		desc. node	3351 Aug 19 15:45	22° m/ 19'00	
asc. node	3350 Oct 22 07:38	15° ♀ 37'40			3351 Aug 25 14:51	0∘ ಹ	
direct	3350 Oct 23 10:07	15° ≏ 31'19		evening max el	3351 Aug 31 04:15	5° £ 56'25	27°25'08
morning max el	3350 Oct 29 22:05	18° ≏ 58'03	17°58'22	retrograde	3351 Sep 13 22:10	13° ≏ 12'32	
	3350 Nov 07 02:14	0° M		evening set	3351 Sep 21 02:53	10° ≏ 40'38	
morning set	3350 Nov 16 07:46	15° ™ 19'09		min. Earth dist.	3351 Sep 24 17:42	7° ≏ 40'24	0.62860 AU
	3350 Nov 25 03:28	0° ∡ ¹		inferior conj	3351 Sep 27 12:54	4° ≙ 57'54	-3°34'34
desc. node	3350 Nov 28 18:03	5° ∡ 751'54		minimum elong	3351 Sep 27 18:27	4° £ 44'27	3°32'54
					3351 Oct 03 23:20	30°R, My	
superior conj	3350 Nov 29 20:21	7° ∡ ³37'47 −		morning rise	3351 Oct 04 11:31	29° m 47'43	
minimum elong	3350 Nov 29 19:27	7° ∡ ³34'10	0°07'23	direct	3351 Oct 06 21:39	29° m/20'36	
behind sun begin	3350 Nov 29 10:08	6° ₹ 56'39		asc. node	3351 Oct 09 04:40	29° m/45'32	
behind sun end	3350 Nov 30 04:47	8° √ 11'39	1 44704 ATT	. ,	3351 Oct 09 18:52	0° 亞	17050120
max. Earth dist.	3350 Dec 04 10:17 3350 Dec 14 01:54	14°₹755'48 0°舌	1.44784 AU	morning max el morning set	3351 Oct 13 14:22 3351 Oct 29 18:47	2° Ω 47'08 27° Ω 53'54	17°50'39
evening rise	3350 Dec 14 01:34 3350 Dec 16 02:16	3° ろ 06'36		morning set	3351 Oct 29 18.47 3351 Oct 30 23:19	27 = 33 34 0° M	
greatest brilliancy	3350 Dec 10 02:10 3350 Dec 30 13:02	25° る 00'12	-0.6m		3331 Oct 30 23.17	O IIG	
greatest orimaney	3351 Jan 02 23:58	0°≈	0.0111	superior conj	3351 Nov 10 08:29	17°ML56'11	0°35'57
evening max el	3351 Jan 11 16:02		20°05'42	minimum elong	3351 Nov 10 11:49	18°ML10'12	0°35'29
asc. node	3351 Jan 18 06:53	15° ≈ 21'51		desc. node	3351 Nov 15 15:04	26°M39'01	
retrograde	3351 Jan 19 09:14	15° ≈ 28'27		max. Earth dist.	3351 Nov 17 02:26	29°M02'12	1.43665 AU
evening set	3351 Jan 23 02:38	14° ≈ 07'35			3351 Nov 17 16:47	0° ∡ 7	
inferior conj	3351 Jan 28 12:32	8° ≈ 04'20	2°56'40	evening rise	3351 Nov 25 11:38	12° ∡ 16'31	
minimum elong	3351 Jan 28 10:05	8° ≈ 12'37	2°56'05		3351 Dec 07 05:06	0°ප	
min. Earth dist.	3351 Jan 29 09:01	6° ≈ 55'28	0.67113 AU	evening max el	3351 Dec 25 15:10	24° る 29'57	21°13'11
morning rise	3351 Feb 02 17:18	1° ≈ 50'33		retrograde	3352 Jan 03 06:55	29° る 37'55	
	3351 Feb 05 08:22	30°Ŗる		asc. node	3352 Jan 05 03:55	29° ට 18'38	
direct	3351 Feb 08 13:30	29° る 13'59		evening set	3352 Jan 07 10:10	28°る01'50	
	3351 Feb 12 00:46	0° ≈	24050142	inferior conj	3352 Jan 12 18:38	21° ♂ 47'53	
morning max el	3351 Feb 20 07:04	6°≈14'40	24°59'43	minimum elong	3352 Jan 12 16:09	21°る56'27 21°る20'29	2°20'53 0.67725 AU
desc. node	3351 Feb 24 17:14 3351 Mar 10 17:11	11°≈06'57 0°) €		min. Earth dist. morning rise	3352 Jan 13 02:34 3352 Jan 17 21:56	15° る 35'12	0.67725 AU
morning set	3351 Mar 10 17:11 3351 Mar 28 10:43	28° ¥ 55'01		direct	3352 Jan 23 03:31	13°る3312	
morning set	3351 Mar 29 01:14	0° Υ		morning max el	3352 Feb 02 15:38	19°る33'08	23°31'38
max. Earth dist.	3351 Apr 01 02:02	5° Υ 31'45	1.36861 AU	desc. node	3352 Feb 11 14:17	0°≈07'09	23 31 30
	r				3352 Feb 11 12:06	0° ≈	
superior conj	3351 Apr 07 11:09	17° Ƴ 42'33	-1°21'32		3352 Mar 02 21:34	0°)	
minimum elong	3351 Apr 07 15:17	18° Y ′02'52	1°20'54	morning set	3352 Mar 08 20:59	9°) 51′55	
	3351 Apr 13 14:43	0°8		max. Earth dist.	3352 Mar 12 20:53	16°) 45′08	1.38988 AU
evening rise	3351 Apr 15 20:01	4° 8 28'34					
asc. node	3351 Apr 16 06:11	5° 8 19'29		superior conj	3352 Mar 20 09:13	0° Υ 22'27	-1°45'34
	3351 Apr 30 20:11	Π °0		minimum elong	3352 Mar 20 13:47	0° Y 43′50	1°45'05
evening max el	3351 May 02 22:35	2° ∐ 15'17	19°31'16		3352 Mar 20 04:25	0° Υ	
retrograde	3351 May 12 10:53	6° Ⅱ 52'10		evening rise	3352 Mar 29 15:30	18° Y 09'25	
evening set	3351 May 14 10:49	6° Ⅱ 40'52	0010127	asc. node	3352 Apr 02 03:13	24° Y 51'15	
inferior conj	3351 May 23 02:06	2° П 36'04 2° П 35'20	0°10'27 0°10'18	avanina may al	3352 Apr 04 22:05	0° 8 14° 8 27'21	18°43'11
minimum elong transit middle	3351 May 23 02:34 3351 May 23 02:34	2° Д 35'20	0°10'18	evening max el retrograde	3352 Apr 14 22:41 3352 Apr 22 23:38	18° 8 23'24	16 43 11
transit begin	3351 May 23 02:34 3351 May 22 23:35	2° II 40'07	0 10 18	evening set	3352 Apr 25 05:05	18° 8 06'25	
transit end	3351 May 22 25:33 3351 May 23 05:33	2° I I30'33		inferior conj	3352 Apr 23 03:03 3352 May 03 00:31	13° 8 43'57	1°47'55
desc. node	3351 May 23 16:25	2° Ⅱ 13'05		minimum elong	3352 May 03 04:02	13° 8 37'24	1°46'50
min. Earth dist.	3351 May 25 15:10		0.55811 AU	min. Earth dist.	3352 May 06 08:07	11° 8 16'48	0.57450 AU
	3351 May 27 06:18	30° ₹ 8		desc. node	3352 May 09 13:26	9° 8 13'45	
morning rise	3351 May 31 15:34	27° 8 57'15		morning rise	3352 May 10 23:48	8° 8 30'47	
direct	3351 Jun 05 05:26	27° 8 09'59		direct	3352 May 16 13:52	7° 8 13'57	
	3351 Jun 13 22:38	Π $^{\circ}0$		morning max el	3352 May 30 22:22	14° 8 46'26	26°21'53
morning max el	3351 Jun 19 06:45		24°52'15		3352 Jun 12 03:08	$\Pi^{\circ}0$	
	3351 Jul 07 13:14	0ം ತಾ		morning set	3352 Jun 28 17:00	0°909'07	
asc. node	3351 Jul 13 05:27	11° © 04'11		_	3352 Jun 28 15:16	0°©	
morning set	3351 Jul 15 06:08	15° © 18'16		asc. node	3352 Jun 29 02:29	0° © 59'16	
superior conj	3351 Jul 22 05:12	0° Ω 23'36	1°22'02	superior conj	3352 Jul 05 16:39	15° © 19'56	1°04'25
minimum elong	3351 Jul 22 02:53	0° Ω 10'54		minimum elong	3352 Jul 05 14:22	15°907'24	1°04'02
<u> </u>	3351 Jul 22 00:53	0°N		max. Earth dist.	3352 Jul 06 02:48	16°©15'51	1.32216 AU
max. Earth dist.	3351 Jul 23 16:30	3° Ω 35'40	1.32758 AU		3352 Jul 12 11:16	$0^{\circ}\Omega$	
evening rise	3351 Jul 29 10:01	15° Ω 42'46		evening rise	3352 Jul 12 15:04	0° Ω 19'58	
	3351 Aug 05 18:53	0° m			3352 Jul 28 21:05	0° m	

desc. node evening max el	3352 Aug 05 12:45 3352 Aug 12 09:37	10° Mp 42'28 18° Mp 18'05	26°58'57	desc. node	3353 Jul 04 10:51 3353 Jul 23 09:47	0° Ω 27° Ω 55'56	
retrograde	3352 Aug 26 07:08	25° m/30'04	20 3837	desc. flode	3353 Jul 25 11:30	0° m	
evening set	3352 Sep 02 07:17	23° m/20'36		evening max el	3353 Jul 25 07:44	29° Ω 51'05	26°00'09
min. Earth dist.	3352 Sep 05 23:51	20° m/40'39	0.60905 AU	retrograde	3353 Aug 08 07:12	6° Mp 59′52	
inferior conj	3352 Sep 09 04:15	17° m 58'15	-4°25'18	evening set	3353 Aug 14 14:33	5° m 24'10	
minimum elong	3352 Sep 09 09:45	17° m 46'28	4°24'10	min. Earth dist.	3353 Aug 18 20:10	2° m 48'12	0.58835 AU
morning rise	3352 Sep 16 14:02	13°M) 08'56		inferior conj	3353 Aug 22 02:31	0° m 23'37	
direct	3352 Sep 18 23:07	12°M)46'26		minimum elong	3353 Aug 22 05:37	0° Mp 17′52	4°59'21
asc. node	3352 Sep 25 01:43	15° Tp 21'25			3353 Aug 22 15:17	30°R Ω	
morning max el	3352 Sep 26 04:01	16° TQ 20'55	18°01'43	morning rise	3353 Aug 29 22:52	25° Ω 57'31	
morning set	3352 Oct 05 17:44 3352 Oct 11 23:07	0° ჲ 11° ჲ 18'24		direct	3353 Sep 01 09:50	25° Ω 37'29 29° Ω 29'35	18°32'58
morning set	3332 Oct 11 23.07	11 == 16 24		morning max el	3353 Sep 09 11:42 3353 Sep 10 00:05	29 8 6 29 33	16 32 36
superior conj	3352 Oct 21 23:14	29° ₽ 32'43	1°08'58	asc. node	3353 Sep 10 00:03 3353 Sep 11 22:47	2° Mp 10'07	
minimum elong	3352 Oct 22 03:30	29° ₽ 51'35	1°08'28	morning set	3353 Sep 25 15:37	25° Mp 17'13	
Č	3352 Oct 22 05:24	0° M ₊		C	3353 Sep 28 02:04	0∘ <u>⊽</u>	
max. Earth dist.	3352 Oct 29 14:11	12°M37'55	1.42007 AU		•		
desc. node	3352 Nov 01 12:06	17° M 25'57		superior conj	3353 Oct 04 12:13	12° ≙ 14'27	1°30'36
evening rise	3352 Nov 04 07:59	21°M59'41		minimum elong	3353 Oct 04 15:24	12° ≏ 29'19	1°30'19
	3352 Nov 09 10:25	0° ∡		max. Earth dist.	3353 Oct 11 20:45	25° ≏ 30'38	1.40007 AU
	3352 Nov 30 10:11	0°ಕ			3353 Oct 14 11:23	0° M ₊	
evening max el	3352 Dec 07 09:08	8° る 04'02	22°29'33	evening rise	3353 Oct 16 01:43	2°M41'34	
retrograde	3352 Dec 17 02:49	13°る51'14 11°る58'52		desc. node	3353 Oct 19 09:07	8° IL 08'44 0° ∡ 1	
evening set asc. node	3352 Dec 21 17:40 3352 Dec 22 00:57	11°る38'32		evening max el	3353 Nov 02 17:24 3353 Nov 19 23:12	0° x ° 21° x ⁷ 40'44	23°49'32
inferior conj	3352 Dec 27 00:37 3352 Dec 27 02:16	5°る37'32	1°39'10	retrograde	3353 Nov 19 23.12 3353 Nov 30 19:39	28° × 704'34	23 49 32
minimum elong	3352 Dec 27 02:10 3352 Dec 27 00:14	5°る44'35	1°38'24	evening set	3353 Nov 30 17:37 3353 Dec 05 23:31	25° × 55'44	
min. Earth dist.	3352 Dec 26 22:47	5° る 49'36	0.67955 AU	asc. node	3353 Dec 08 22:01	22° × ⁷ 48'25	
	3352 Dec 31 16:09	30°R. ✓		inferior conj	3353 Dec 11 09:39	19° ∡ ³30'54	0°50'25
morning rise	3353 Jan 01 06:41	29° ∡ "27′38		minimum elong	3353 Dec 11 08:29	19° ∡ ³34'52	0°49'56
direct	3353 Jan 05 21:25	27° х ³33′13		min. Earth dist.	3353 Dec 10 19:23	20° х¹ 19′26	0.67825 AU
	3353 Jan 11 18:51	0°ප		morning rise	3353 Dec 16 17:28	13° ∡ ¹25'36	
morning max el	3353 Jan 15 03:29	2° ろ 59'08	22°04'06	direct	3353 Dec 20 18:11	11° ∡ ¹53'56	
desc. node	3353 Jan 28 11:21	19° る 42'43		morning max el	3353 Dec 28 21:54	16° ∡ ³35'55	20°44'31
	3353 Feb 04 13:35	0° ≈			3354 Jan 08 14:58	0°る	
morning set max. Earth dist.	3353 Feb 17 02:49	19°≈26'42 28°≈45'53	1.41143 AU	desc. node	3354 Jan 15 08:24	9°る43'42 27°る52'27	
max. Earm dist.	3353 Feb 22 18:55 3353 Feb 23 12:34	28 ≈ 43 33	1.41143 AU	morning set	3354 Jan 27 06:56 3354 Jan 28 15:36	27 3 3227 0° ≈	
	3333100 23 12.34	0 /		max. Earth dist.	3354 Feb 04 23:57		1.43030 AU
superior conj	3353 Mar 02 13:01	12°) €08'07	-2°02'09	man. Barar dige.	330.1100 0.1 23.57	11 10 11 10 0	1.15050110
minimum elong	3353 Mar 02 16:06	12°) €21'51		superior conj	3354 Feb 11 17:24	22° ≈ 47'54	-2°06'26
	3353 Mar 12 07:49	0 ° Υ		minimum elong	3354 Feb 11 16:12	22° ≈ 42'52	2°06'25
evening rise	3353 Mar 12 23:53	1° Y 14'43			3354 Feb 15 22:58	0° ∀	
asc. node	3353 Mar 20 00:15	14° Y ′01'00		evening rise	3354 Feb 23 17:06	13° ∺ 35'31	
evening max el	3353 Mar 29 06:13	27° Y 10′26	18°15'14		3354 Mar 05 04:21	0°Υ	
	3353 Apr 02 04:19	0°8		asc. node	3354 Mar 06 21:18	2° Υ 41'34	
retrograde	3353 Apr 05 07:30	0° 8 42'14		evening max el	3354 Mar 12 17:52	10° Υ 15'52 13° Υ 38'58	18°07'01
evening set	3353 Apr 07 19:19	0° ႘ 16'40 30°Ŗ Ƴ		retrograde	3354 Mar 19 07:00 3354 Mar 22 00:36	13° Υ 38'58 13° Υ 03'10	
inferior conj	3353 Apr 08 12:51 3353 Apr 14 20:24	30 κ 1 25° Υ 33'24	2°52'51	evening set inferior conj	3354 Mar 28 11:05	7° Υ 59'32	3°27'37
minimum elong	3353 Apr 14 23:52	25° Y 25'50	2°52'06	minimum elong	3354 Mar 28 12:57	7° Υ 54'50	3°27'26
min. Earth dist.	3353 Apr 18 06:11	22° Y '36'30	0.59527 AU	min. Earth dist.	3354 Mar 31 12:04	4° Υ 57'40	0.61695 AU
morning rise	3353 Apr 22 01:52	19° Ƴ 52'51		morning rise	3354 Apr 03 23:40	2° Y 01'46	
desc. node	3353 Apr 26 10:30	18° Ƴ 11'46		C	3354 Apr 08 02:04	30° ₹ ₩	
direct	3353 Apr 28 11:15	18° Y ′00'28		direct	3354 Apr 10 19:37	29°) 37′14	
morning max el	3353 May 12 19:48	25° Y 49'16	27°24'12	desc. node	3354 Apr 13 07:33	29°) 55′08	
	3353 May 16 17:17	0°B			3354 Apr 13 15:23	0° Υ	
	3353 Jun 05 12:34	0°II		morning max el	3354 Apr 24 23:38	7° Y 34'34	27°50'28
morning set	3353 Jun 13 01:13	14° Ⅱ 49'59			3354 May 12 01:54	0°8	
asc. node	3353 Jun 15 23:32	21° II 02'55	1 22072 433	morning set	3354 May 28 04:52	29° 8 14'51	
max. Earth dist.	3353 Jun 19 14:48	28° Ⅱ 59'04	1.32073 AU	aca ma J-	3354 May 28 13:41	0°Ⅱ 11°Ⅲ10'50	
superior conj	3353 Jun 20 04:20	0° © 13'39	0°42'58	asc. node max. Earth dist.	3354 Jun 02 20:35 3354 Jun 03 00:32	11° Ⅱ 10′59 11° Ⅱ 32′21	1.32337 AU
minimum elong	3353 Jun 20 04:20 3353 Jun 20 02:34	0°903'56	0°42'37	max. Barui dist.	Juli 05 00.32	11 11 3441	1.2221 AU
	3353 Jun 20 01:52	0.20 0.30	J .= J/	superior conj	3354 Jun 04 14:37	14° ∏ 59'35	0°18'21
evening rise	3353 Jun 27 00:20	15° © 06'57		minimum elong	3354 Jun 04 13:47	14° I 55'00	
<i>S</i>		'					

evening rise	3354 Jun 11 11:49 3354 Jun 11 12:20 3354 Jun 28 02:10	29°∏57'15 0°© 0°Ω		superior conj minimum elong behind sun begin	3355 May 19 21:37 3355 May 19 22:03 3355 May 19 17:32	29° 8 31'18 29° 8 33'38 29° 8 09'27	
evening max el	3354 Jul 06 22:55	10° Ω 39'19	24°35'43	behind sun end	3355 May 20 02:34	29° 8 57'50	
desc. node	3354 Jul 10 06:47	13° Ω 31′28			3355 May 20 02:58	$\Pi^{\circ}0$	
retrograde	3354 Jul 20 20:41	17° Ω 41'17		asc. node	3355 May 20 17:38	1° Ⅱ 18'49	
evening set	3354 Jul 25 21:42	16° Ω 44'02		evening rise	3355 May 26 23:33	14° ∏ 44'11	
min. Earth dist.	3354 Jul 31 10:03		0.56915 AU		3355 Jun 03 15:29	0°€	
inferior conj	3354 Aug 03 04:54	12° Ω 05'32		evening max el	3355 Jun 18 12:20	21°505'28	22°59'27
minimum elong	3354 Aug 03 02:47	12° Ω 08'57 8° Ω 00'54	5°03'54	desc. node	3355 Jun 27 03:48	26°\$54'32 27°\$45'49	
morning rise direct	3354 Aug 11 10:30 3354 Aug 14 01:47	8°8 ι 00°34 7° Ω 41'45		retrograde evening set	3355 Jul 01 21:36 3355 Jul 05 10:04	27°9943'49 27°9918'42	
morning max el	3354 Aug 14 01:47 3354 Aug 23 10:17	12° Ω 03'42	19°25'33	min. Earth dist.	3355 Jul 12 21:22	27 \$31842 23°\$58'35	0.55487 AU
asc. node	3354 Aug 29 19:50	19° £ 56'39	17 23 33	inferior conj	3355 Jul 14 11:56	23° © 02'43	
	3354 Sep 04 17:22	0° m)		minimum elong	3355 Jul 14 04:33	23° © 13'26	4°22'08
morning set	3354 Sep 09 16:31	9° m 40'05		morning rise	3355 Jul 23 01:22	19° © 10'38	
				direct	3355 Jul 25 23:05	18° © 50'40	
superior conj	3354 Sep 17 17:53	25° Mp 45'26	1°41'57	morning max el	3355 Aug 05 21:27	23° © 55'08	20°39'30
minimum elong	3354 Sep 17 19:21	25° m 52'35	1°41'53		3355 Aug 11 05:19	0 $^{\circ}\Omega$	
	3354 Sep 19 22:23	0∘ ⊽		asc. node	3355 Aug 16 16:52	8° Ω 27'57	
max. Earth dist.	3354 Sep 24 00:41	7° £ 42'00	1.37927 AU	morning set	3355 Aug 24 23:04	24° Ω 19'37	
evening rise desc. node	3354 Sep 27 18:55 3354 Oct 06 06:08	14° ♀ 28'23 28° ♀ 43'23			3355 Aug 27 16:53	0° m	
desc. node	3354 Oct 06 06.08 3354 Oct 07 01:19	28 ==43 23 0°M		superior conj	3355 Sep 01 11:30	9° m 52'02	1°44'43
	3354 Oct 28 12:35	0°×7		minimum elong	3355 Sep 01 11:30 3355 Sep 01 11:19	9° m 51'09	1°44'43
evening max el	3354 Nov 02 11:30	5° ⊀ 120'52	25°06'31	max. Earth dist.	3355 Sep 06 08:01	•	1.36014 AU
retrograde	3354 Nov 14 08:21	12° ∡ 13'17		evening rise	3355 Sep 10 08:31	27° m 12'56	
evening set	3354 Nov 20 02:04	9° ∡ ¹49'19			3355 Sep 11 20:52	0∘ ⊽	
min. Earth dist.	3354 Nov 24 14:00	4° ∡ °47′08	0.67354 AU	desc. node	3355 Sep 23 03:08	19° ჲ 05'05	
inferior conj	3354 Nov 25 14:59	3° ≯ 25′23			3355 Sep 30 10:03	0° M	
minimum elong	3354 Nov 25 15:04	3° х 25′06	0°03'28	evening max el	3355 Oct 15 23:52	19°M02'30	26°13'07
transit middle	3354 Nov 25 15:04	3° ∡ 125'06	0°03'28	retrograde	3355 Oct 28 16:06	26°M12'14	
transit begin	3354 Nov 25 12:22	3° ₹ 33'59		evening set	3355 Nov 03 23:28	23°M36'26	0.66542.411
transit end asc. node	3354 Nov 25 17:47 3354 Nov 25 19:04	3° х 16′14 3° х 12′00		min. Earth dist. inferior conj	3355 Nov 08 04:15 3355 Nov 09 16:24	19°M09'42 17°M18'13	0.66542 AU
asc. Houe	3354 Nov 28 09:13	30°RM		minimum elong	3355 Nov 09 18:03	17°ML13'09	1°00'37
morning rise	3354 Dec 01 04:17	27°M26'51		asc. node	3355 Nov 12 16:06	13°M50'38	1 00 57
direct	3354 Dec 04 16:35	26°MJ15'41		morning rise	3355 Nov 15 13:07	11°M29'06	
	3354 Dec 11 14:38	0° ∡ ¹		direct	3355 Nov 18 15:04	10°M34'59	
morning max el	3354 Dec 12 00:09	0° х 23′24	19°37'36	morning max el	3355 Nov 25 09:28	14°M19'06	18°46'01
greatest brilliancy	3354 Dec 25 03:36	17° ∡ 748'14	-0.7m		3355 Dec 06 23:35	0°⊀	
desc. node	3355 Jan 02 05:25	0° ರ 02'42		morning set	3355 Dec 16 17:31	15° ⊀ 16'10	
	3355 Jan 02 04:43	0°る る		desc. node	3355 Dec 20 02:27	20° ∡ ³34'53	
morning set	3355 Jan 06 03:28	6° る 04'46	1 44410 ATT	E d E d	3355 Dec 26 02:17	0°る	1 45146 ATT
max. Earth dist.	3355 Jan 18 11:48 3355 Jan 21 09:24	25° る 22'50 0°≈	1.44418 AU	max. Earth dist.	3356 Jan 01 05:00	9,033,33	1.45146 AU
	3333 Jan 21 09.24	0 ~		superior conj	3356 Jan 02 01:51	10°る57'27	-1°20'52
superior conj	3355 Jan 22 19:41	2° ≈ 17'30	-1°53'17	minimum elong	3356 Jan 01 16:53	10° る 22'14	
minimum elong	3355 Jan 22 12:41			e e e e e e e e e e e e e e e e e e e	3356 Jan 14 02:29	0° ≈	
evening rise	3355 Feb 05 14:38	25° ≈ 02'19		evening rise	3356 Jan 17 13:16	5° ≈ 31'56	
	3355 Feb 08 13:09	0° ℋ		greatest brilliancy	3356 Jan 24 08:38	16° ≈ 29′23	-0.9m
asc. node	3355 Feb 21 18:22	20°) 43′01			3356 Feb 02 02:56	0° ∀	
evening max el	3355 Feb 24 06:34	23°) (34'46	18°17'50	evening max el	3356 Feb 07 17:44		18°46'47
retrograde	3355 Mar 02 17:20	27°) (02'43		asc. node	3356 Feb 08 15:23	7°) 54'10	
evening set	3355 Mar 05 16:36	26° 升 15'31 20° 升 52'47	3°38'50	retrograde	3356 Feb. 17 16:00	10°) 46′08 9°) 46′35	
inferior conj minimum elong	3355 Mar 11 16:19 3355 Mar 11 16:23	20° X 52'47 20° X 52'36	3°38'50 3°38'51	evening set inferior conj	3356 Feb 17 16:00 3356 Feb 23 08:18	4° χ 4633	3°32!27
min. Earth dist.	3355 Mar 14 03:09	18° ¥ 08'04	0.63689 AU	minimum elong	3356 Feb 23 06:57	4° X 10'29	
morning rise	3355 Mar 17 05:09	14°) (45'49		min. Earth dist.	3356 Feb 25 03:28	1°) €53'54	0.65347 AU
direct	3355 Mar 24 12:39	12°) €00'38			3356 Feb 26 18:51	30° R ≈	
desc. node	3355 Mar 31 04:36	14°) €08'34		morning rise	3356 Feb 28 21:28	27° ≈ 54'51	
morning max el	3355 Apr 07 07:43	19° ∺ 57'45	27°39'28	direct	3356 Mar 06 12:44	25° ≈ 03'34	
	3355 Apr 15 22:00	0°Υ			3356 Mar 16 17:14	0° ∀	
	3355 May 05 01:56	0°8		desc. node	3356 Mar 17 01:39	0°) 18'17	2 (0 5 5 2 2 2
morning set	3355 May 12 01:32	13° 8 15'29	1 22025 ATT	morning max el	3356 Mar 19 17:27	2°) 49'04 0° Υ	26~55'34
max. Earth dist.	3355 May 17 03:58	23° 8 42'28	1.33025 AU	morning set	3356 Apr 09 04:42 3356 Apr 24 12:05	0°γ' 26° Υ 42'25	
				morning set	3330 Apr 24 12:03	20 14223	

	2256 Amr. 26 04:52	0° ႘			2257 Mar. 12, 17-20	0°) {	
Fault diet	3356 Apr 26 04:53 3356 Apr 28 21:34	_	1.34169 AU		3357 Mar 13 17:30 3357 Apr 02 01:52	0° Υ	
max. Earth dist.	5550 Apr 26 21.54	3 021 14	1.54109 AU	morning set	3357 Apr 02 01:32 3357 Apr 07 08:24	9° Υ 23'48	
superior coni	3356 May 02 23:14	13° 8 42'29	0°37'17	max. Earth dist.	3357 Apr 11 03:54	16° Υ 32'25	1.35767 AU
superior conj minimum elong	3356 May 03 01:10	13° 8 52'37		max. Earth dist.	3337 Apr 11 03.34	10 32 23	1.33707 AU
asc. node		21° 8 22'29	0 30 33	superior coni	2257 Apr. 16 16:55	27° Y 25'49	1005!51
	3356 May 06 14:40	21 8 22 29 29° 8 21'43		superior conj minimum elong	3357 Apr 16 16:55	27° Υ 43'09	
evening rise	3356 May 10 09:40	0° I		minimum eiong	3357 Apr 16 20:22	0° 8	1 05 14
	3356 May 10 17:01			1	3357 Apr 17 23:25		
	3356 May 28 16:29	0°©	2102602	asc. node	3357 Apr 23 11:42	11° 8 17'56	
evening max el	3356 May 30 07:41	1°541'33	21°26'32	evening rise	3357 Apr 24 16:09	13° 8 43'35	
retrograde	3356 Jun 11 11:51	7°940'17			3357 May 03 04:16	0° П	20007152
desc. node	3356 Jun 13 00:50	7°534'48		evening max el	3357 May 12 14:12	12° Ⅲ 51'34	20°07'53
evening set	3356 Jun 13 21:13	7° © 27'14		retrograde	3357 May 23 02:08	17° Ⅲ 58'01	
inferior conj	3356 Jun 23 06:39	3° 5 27'28		evening set	3357 May 25 01:42	17° ∏ 47'52	
minimum elong	3356 Jun 22 23:02	3° © 38'07		desc. node	3357 May 30 21:52	15° Ⅲ 38′28	
min. Earth dist.	3356 Jun 23 08:35	3° © 24'46	0.54867 AU	inferior conj	3357 Jun 03 02:43	13° ∐ 48'41	
	3356 Jun 30 10:18	30°RⅡ		minimum elong	3357 Jun 03 00:04	13° ∏ 52′38	0°55'43
morning rise	3356 Jul 02 01:35	29° Ⅱ 31'45		min. Earth dist.	3357 Jun 04 21:11	12° Ⅱ 45'31	0.55202 AU
direct	3356 Jul 05 09:30	29° Ⅱ 07'39		morning rise	3357 Jun 11 20:52	9° Ⅱ 29'45	
	3356 Jul 10 04:17	0		direct	3357 Jun 15 21:36	8° Ⅱ 54'27	
morning max el	3356 Jul 17 21:11	5° 5 01'54	22°11'45	morning max el	3357 Jun 29 13:15	15° Ⅱ 36′13	23°54'07
asc. node	3356 Aug 02 13:54	27° © 32'54			3357 Jul 10 23:04	0 \circ \odot	
	3356 Aug 03 20:35	$0^{\circ}\Omega$		asc. node	3357 Jul 20 10:56	17° © 03'00	
morning set	3356 Aug 08 09:01	9° Ω 09'19		morning set	3357 Jul 23 20:38	24° © 04'08	
					3357 Jul 26 15:13	$\Omega^{\circ}\Omega$	
superior conj	3356 Aug 15 13:21	24° Ω 22'50	1°40'23				
minimum elong	3356 Aug 15 11:56	24° Ω 15'25	1°40'18	superior conj	3357 Jul 30 20:40	9° Ω 09'37	1°30'11
	3356 Aug 18 05:53	0° m)		minimum elong	3357 Jul 30 18:32	8° Ω 58'05	1°29'58
max. Earth dist.	3356 Aug 18 23:31	1° m/30'49	1.34433 AU	max. Earth dist.	3357 Aug 02 00:05	13° Ω 45'51	1.33252 AU
evening rise	3356 Aug 23 13:58	10° m/42'37		evening rise	3357 Aug 07 07:12	24° Ω 46′26	
8 21	3356 Sep 03 06:51	0∘ <u>⊽</u>		3	3357 Aug 09 22:38	0° m/	
desc. node	3356 Sep 09 00:08	9° Ω 07'01		desc. node	3357 Aug 26 21:09	28° m 40'48	
	3356 Sep 24 22:24	0° M			3357 Aug 27 19:14	0∘ ⊽	
evening max el	3356 Sep 27 12:26	2°M36'56	27°01'42	evening max el	3357 Sep 09 23:54	15° £ 52'36	27°25'08
retrograde	3356 Oct 10 18:08	9°M53'44	27 01 12	retrograde	3357 Sep 23 14:08	23° ⊆ 09'55	27 23 00
evening set	3356 Oct 17 13:32	7°ML11'52		evening set	3357 Sep 20 14:00 3357 Sep 30 17:30	20° ⊆ 30'47	
min. Earth dist.	3356 Oct 21 11:40	3°ML21'12	0.65383 AU	min. Earth dist.	3357 Oct 04 10:06	17° ⊆ 14'11	0.63878 AU
inferior conj	3356 Oct 23 11:47	1°M04'14		inferior conj	3357 Oct 04 10:00 3357 Oct 06 22:39	14° £ 38'03	
minimum elong	3356 Oct 23 11:47 3356 Oct 23 15:09	0°M54'39		minimum elong	3357 Oct 00 22:39 3357 Oct 07 03:35	14° £ 25'18	
minimum clong		0 11 ს 34 39 30° Ŗ Ω	2 00 08	Č		9° £ 17'29	2 39 49
mamina risa	3356 Oct 24 10:32			morning rise direct	3357 Oct 13 14:55	9 ≗ 1729 8° ≗ 46'16	
morning rise	3356 Oct 29 17:36	25° £ 27'40			3357 Oct 16 03:10		
asc. node	3356 Oct 29 13:07	25° £ 33'21		asc. node	3357 Oct 16 10:09 3357 Oct 22 16:07	8° Ω 46'42	17052155
direct	3356 Nov 01 11:29	24° Ω 46'49	10010152	morning max el		12° £ 11'33	17-32-33
morning max el	3356 Nov 07 23:41	28° £ 17'06	18°10'53		3357 Nov 03 20:30	0°M	
	3356 Nov 09 13:38	0°M		morning set	3357 Nov 08 10:47	7°M52'58	
morning set	3356 Nov 26 12:37	25°M55'18			225734 21 02 22	200 m 10124	0012100
	3356 Nov 29 00:26	0° ∡ 7		superior conj	3357 Nov 21 02:32	29°M10'34	
desc. node	3356 Dec 05 23:27	11° ⊀ 15'29		minimum elong	3357 Nov 21 03:51	29°M15'57	0°11'49
	225675 11 05 26	100 30 (11)	0005111	behind sun begin	3357 Nov 20 21:03	28°M48'08	
superior conj	3356 Dec 11 05:26	19° ∡ 36'41		behind sun end	3357 Nov 21 10:40	29°M43'43	
minimum elong	3356 Dec 11 00:57	19° ∡ 19'00			3357 Nov 21 14:39	0° ∡ 7	
max. Earth dist.	3356 Dec 14 00:31		1.45132 AU	desc. node	3357 Nov 22 20:27	2°×701'03	
	3356 Dec 17 20:03	0° ろ		max. Earth dist.	3357 Nov 26 18:51	8° ₹ 20'05	1.44385 AU
evening rise	3356 Dec 27 13:40	15° る 09'59		evening rise	3357 Dec 07 00:09	24° ∡ 18'56	
	3357 Jan 06 03:42	0° ≈			3357 Dec 10 17:16	0°ಕ	
greatest brilliancy	3357 Jan 08 22:27	4° ≈ 13'58			3357 Dec 31 14:03	0° ≈	
evening max el	3357 Jan 21 01:10	20° ≈ 31'53	19°32'33	evening max el	3358 Jan 04 03:26	4°≈03'05	20°33'01
asc. node	3357 Jan 25 12:24	24° ≈ 01'09		retrograde	3358 Jan 12 05:36	8° ≈ 49'17	
retrograde	3357 Jan 28 07:29	24° ≈ 43'15		asc. node	3358 Jan 12 09:26	8° ≈ 49'08	
evening set	3357 Jan 31 20:11	23° ≈ 30′18		evening set	3358 Jan 16 03:02	7° ≈ 21'53	
inferior conj	3357 Feb 06 07:46	17° ≈ 34'35	3°12'49	inferior conj	3358 Jan 21 12:05	1° ≈ 13′28	2°42'50
minimum elong	3357 Feb 06 05:33	17° ≈ 41'51	3°12'23	minimum elong	3358 Jan 21 09:33	1° ≈ 22'05	2°42'09
min. Earth dist.	3357 Feb 07 12:01	16° ≈ 02'02	0.66590 AU	min. Earth dist.	3358 Jan 22 02:57	0° ≈ 22'41	0.67418 AU
morning rise	3357 Feb 11 14:41	11° ≈ 21'16			3358 Jan 22 09:38	30°Rる	
direct	3357 Feb 17 18:41	8° ≈ 36'43		morning rise	3358 Jan 26 15:53	24° る 59'59	
morning max el	3357 Mar 02 02:50	15° ≈ 57'16	25°46'49	direct	3358 Feb 01 05:52	22° る 31'22	
desc. node	3357 Mar 03 22:41	17° ≈ 52'16		morning max el	3358 Feb 12 11:26	29° る 13'40	24°22'52

	3358 Feb 13 05:29	0° ≈		desc. node	3359 Feb 05 16:45	25° る 42'54	
desc. node	3358 Feb 18 19:43	6° ≈ 26′07			3359 Feb 08 19:12	0° ≈	
	3358 Mar 07 13:08	0° ∀			3359 Feb 28 10:28	0° ∀	
marning got		21°) 03'53		mamina aat		1° ¥ 27'26	
morning set	3358 Mar 20 08:57			morning set	3359 Mar 01 07:39		
max. Earth dist.	3358 Mar 24 01:17	27°) (36′10	1.37745 AU	max. Earth dist.	3359 Mar 05 20:24	9° ∺ 06'02	1.39912 AU
	3358 Mar 25 08:53	0° Υ					
				superior conj	3359 Mar 13 14:17	22° ¥ 50'14	-1°53'45
aumorior coni	2259 Mar 20 22:10	10° Ƴ 31'41	1022122		3359 Mar 13 18:32	23°) (3011	
superior conj	3358 Mar 30 23:19			minimum elong			1 33 20
minimum elong	3358 Mar 31 03:48	10° Ƴ 53'17	1°31'46		3359 Mar 17 10:57	0 ° Υ	
evening rise	3358 Apr 08 16:32	27° Y 41′50		evening rise	3359 Mar 23 07:49	11° Y 09'03	
· ·	3358 Apr 09 20:31	0° ႘		asc. node	3359 Mar 28 05:47	20° Ƴ 23'27	
1				use. Houe			
asc. node	3358 Apr 10 08:44	0° 8 59'55			3359 Apr 02 21:18	0°8	
evening max el	3358 Apr 25 08:30	24° 8 41'54	19°08'15	evening max el	3359 Apr 08 12:14	7° 8 08'45	18°28'51
retrograde	3358 May 04 04:46	29° 8 00'03		retrograde	3359 Apr 16 01:48	10° 8 52'28	
evening set	3358 May 06 06:29	28° 8 46'52		evening set	3359 Apr 18 09:51	10° 8 32'15	
•	•			•	*	.T.	
inferior conj	3358 May 14 13:26	24° 8 35'03	0°55'30	inferior conj	3359 Apr 25 21:10	6° 8 01'21	2°19'25
minimum elong	3358 May 14 15:37	24° 8 31'20	0°54'44	minimum elong	3359 Apr 26 00:57	5° 8 53'47	2°18'23
min. Earth dist.	3358 May 17 12:22	22° 8 34'46	0.56431 AU	min. Earth dist.	3359 Apr 29 07:33	3° 8 18'19	0.58304 AU
	-		0.50 151 710		=	_	0.30301710
desc. node	3358 May 17 18:54	22° 8 24'06		morning rise	3359 May 03 12:58	0° 8 34'59	
morning rise	3358 May 22 21:37	19° 8 41'00		desc. node	3359 May 04 15:57	0° 8 03'53	
direct	3358 May 27 21:36	18° 8 42'42			3359 May 04 19:44	30° ŖƳ	
morning max el	3358 Jun 11 03:37	26° 8 01'18	25°32'54	direct	3359 May 09 12:10	29° Y ′02'58	
morning max ci			23 32 34	uncci	,		
	3358 Jun 14 21:57	Π $\circ 0$			3359 May 14 07:10	$8^{\circ 0}$	
	3358 Jul 03 23:09	0 \circ \odot		morning max el	3359 May 23 21:32	6° 8 44'22	26°52'14
asc. node	3358 Jul 07 07:59	6°950'31			3359 Jun 10 05:19	$\Pi^{\circ}0$	
	3358 Jul 08 08:14	8° 9 57'54		mamina aat	3359 Jun 22 18:12	23° ∏ 45'13	
morning set	3338 Jul 08 08.14	8 93/34		morning set			
				asc. node	3359 Jun 24 05:03	26° Ⅱ 49'50	
superior conj	3358 Jul 15 07:10	24° © 04'16	1°15'04		3359 Jun 25 16:23	$0 \circ \mathfrak{S}$	
minimum elong	3358 Jul 15 04:48	23° © 51'19	1°14'43				
Č					2250 1 20 10 50	0000000	0055146
max. Earth dist.	3358 Jul 16 07:37	26°©18'08	1.32478 AU	superior conj	3359 Jun 29 18:58	9° © 00'25	0°55'46
	3358 Jul 18 00:22	0 \circ Ω		minimum elong	3359 Jun 29 16:51	8° © 48'47	0°55'21
evening rise	3358 Jul 22 08:45	9° Ω 13'37		max. Earth dist.	3359 Jun 29 18:53	8°959'57	1.32108 AU
C	3358 Aug 02 07:02	O° mp		evening rise	3359 Jul 06 15:53	23° © 55'47	
	•			evening rise			
desc. node	3358 Aug 13 18:11	17° m 34'20			3359 Jul 09 14:27	0 $^{\circ}\Omega$	
. 1	2250 4 22 07 50	200 m 2 (122	2701750			0° m y	
evening max el	3358 Aug 23 07:59	28° Mp 36′22	2/1/39		3359 Jul 27 06:52	עוו ט	
evening max ei	•	-	27 1739	desc. node	3359 Jul 27 06:52 3359 Jul 31 15:13		
	3358 Aug 24 20:48	0° ⊽	27 1739	desc. node	3359 Jul 31 15:13	5° m 30'58	26027126
retrograde	3358 Aug 24 20:48 3358 Sep 06 03:38	0° ჲ 5° ჲ 51'18	27 1739	evening max el	3359 Jul 31 15:13 3359 Aug 05 10:21	5° m/30'58 10° m/37'25	26°37'36
	3358 Aug 24 20:48	0° ⊽	21 1139		3359 Jul 31 15:13	5° m 30'58	26°37'36
retrograde	3358 Aug 24 20:48 3358 Sep 06 03:38	0° ჲ 5° ჲ 51'18 3° ჲ 26'57	0.62053 AU	evening max el	3359 Jul 31 15:13 3359 Aug 05 10:21	5° m/30'58 10° m/37'25	26°37'36
retrograde evening set	3358 Aug 24 20:48 3358 Sep 06 03:38 3358 Sep 13 07:48 3358 Sep 16 22:13	0° ჲ 5° ჲ 51'18 3° ჲ 26'57 0° ჲ 37'17		evening max el retrograde evening set	3359 Jul 31 15:13 3359 Aug 05 10:21 3359 Aug 19 09:22 3359 Aug 26 03:49	5° m 30'58 10° m 37'25 17° m 48'45 15° m 52'33	
retrograde evening set min. Earth dist.	3358 Aug 24 20:48 3358 Sep 06 03:38 3358 Sep 13 07:48 3358 Sep 16 22:13 3358 Sep 17 14:51	0° Ω 5° Ω 51'18 3° Ω 26'57 0° Ω 37'17 30° R M	0.62053 AU	evening max el retrograde evening set min. Earth dist.	3359 Jul 31 15:13 3359 Aug 05 10:21 3359 Aug 19 09:22 3359 Aug 26 03:49 3359 Aug 30 00:08	5° m 30'58 10° m 37'25 17° m 48'45 15° m 52'33 13° m 16'21	0.60020 AU
retrograde evening set min. Earth dist.	3358 Aug 24 20:48 3358 Sep 06 03:38 3358 Sep 13 07:48 3358 Sep 16 22:13 3358 Sep 17 14:51 3358 Sep 19 22:03	0°	0.62053 AU -3°57'29	evening max el retrograde evening set min. Earth dist. inferior conj	3359 Jul 31 15:13 3359 Aug 05 10:21 3359 Aug 19 09:22 3359 Aug 26 03:49 3359 Aug 30 00:08 3359 Sep 02 06:32	5° m 30'58 10° m 37'25 17° m 48'45 15° m 52'33 13° m 16'21 10° m 39'01	0.60020 AU -4°42'39
retrograde evening set min. Earth dist.	3358 Aug 24 20:48 3358 Sep 06 03:38 3358 Sep 13 07:48 3358 Sep 16 22:13 3358 Sep 17 14:51	0° Ω 5° Ω 51'18 3° Ω 26'57 0° Ω 37'17 30° R M	0.62053 AU -3°57'29	evening max el retrograde evening set min. Earth dist.	3359 Jul 31 15:13 3359 Aug 05 10:21 3359 Aug 19 09:22 3359 Aug 26 03:49 3359 Aug 30 00:08	5° m 30'58 10° m 37'25 17° m 48'45 15° m 52'33 13° m 16'21	0.60020 AU -4°42'39
retrograde evening set min. Earth dist. inferior conj minimum elong	3358 Aug 24 20:48 3358 Sep 06 03:38 3358 Sep 13 07:48 3358 Sep 16 22:13 3358 Sep 17 14:51 3358 Sep 19 22:03 3358 Sep 20 03:49	0° Ω 5° Ω 51'18 3° Ω 26'57 0° Ω 37'17 30° R M 27° M 52'36 27° M 39'22	0.62053 AU -3°57'29	evening max el retrograde evening set min. Earth dist. inferior conj minimum elong	3359 Jul 31 15:13 3359 Aug 05 10:21 3359 Aug 19 09:22 3359 Aug 26 03:49 3359 Aug 30 00:08 3359 Sep 02 06:32 3359 Sep 02 11:23	5° m 30'58 10° m 37'25 17° m 48'45 15° m 52'33 13° m 16'21 10° m 39'01 10° m 29'16	0.60020 AU -4°42'39
retrograde evening set min. Earth dist. inferior conj minimum elong morning rise	3358 Aug 24 20:48 3358 Sep 06 03:38 3358 Sep 13 07:48 3358 Sep 16 22:13 3358 Sep 17 14:51 3358 Sep 19 22:03 3358 Sep 20 03:49 3358 Sep 27 01:30	0° Ω 5° Ω 51'18 3° Ω 26'57 0° Ω 37'17 30° R M 27° M 52'36 27° M 39'22 22° M 51'18	0.62053 AU -3°57'29	evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise	3359 Jul 31 15:13 3359 Aug 05 10:21 3359 Aug 19 09:22 3359 Aug 26 03:49 3359 Aug 30 00:08 3359 Sep 02 06:32 3359 Sep 02 11:23 3359 Sep 09 20:59	5° m 30'58 10° m 37'25 17° m 48'45 15° m 52'33 13° m 16'21 10° m 39'01 10° m 29'16 5° m 59'32	0.60020 AU -4°42'39
retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct	3358 Aug 24 20:48 3358 Sep 06 03:38 3358 Sep 13 07:48 3358 Sep 16 22:13 3358 Sep 17 14:51 3358 Sep 19 22:03 3358 Sep 20 03:49 3358 Sep 27 01:30 3358 Sep 29 10:47	0°	0.62053 AU -3°57'29	evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct	3359 Jul 31 15:13 3359 Aug 05 10:21 3359 Aug 19 09:22 3359 Aug 26 03:49 3359 Aug 30 00:08 3359 Sep 02 06:32 3359 Sep 02 11:23 3359 Sep 09 20:59 3359 Sep 12 06:21	5° m 30'58 10° m 37'25 17° m 48'45 15° m 52'33 13° m 16'21 10° m 39'01 10° m 29'16 5° m 59'32 5° m 38'28	0.60020 AU -4°42'39 4°41'52
retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node	3358 Aug 24 20:48 3358 Sep 06 03:38 3358 Sep 13 07:48 3358 Sep 16 22:13 3358 Sep 17 14:51 3358 Sep 19 22:03 3358 Sep 20 03:49 3358 Sep 27 01:30 3358 Sep 29 10:47 3358 Oct 03 07:12	0° Ω 5° Ω 51'18 3° Ω 26'57 0° Ω 37'17 30° R M 27° M 52'36 27° M 39'22 22° M 51'18	0.62053 AU -3°57'29	evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el	3359 Jul 31 15:13 3359 Aug 05 10:21 3359 Aug 19 09:22 3359 Aug 26 03:49 3359 Aug 30 00:08 3359 Sep 02 06:32 3359 Sep 02 11:23 3359 Sep 09 20:59 3359 Sep 12 06:21 3359 Sep 19 19:16	5° m 30'58 10° m 37'25 17° m 48'45 15° m 52'33 13° m 16'21 10° m 39'01 10° m 29'16 5° m 59'32	0.60020 AU -4°42'39
retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct	3358 Aug 24 20:48 3358 Sep 06 03:38 3358 Sep 13 07:48 3358 Sep 16 22:13 3358 Sep 17 14:51 3358 Sep 19 22:03 3358 Sep 20 03:49 3358 Sep 27 01:30 3358 Sep 29 10:47	0°	0.62053 AU -3°57'29 3°55'58	evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct	3359 Jul 31 15:13 3359 Aug 05 10:21 3359 Aug 19 09:22 3359 Aug 26 03:49 3359 Aug 30 00:08 3359 Sep 02 06:32 3359 Sep 02 11:23 3359 Sep 09 20:59 3359 Sep 12 06:21	5° m 30'58 10° m 37'25 17° m 48'45 15° m 52'33 13° m 16'21 10° m 39'01 10° m 29'16 5° m 59'32 5° m 38'28	0.60020 AU -4°42'39 4°41'52
retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node	3358 Aug 24 20:48 3358 Sep 06 03:38 3358 Sep 13 07:48 3358 Sep 16 22:13 3358 Sep 17 14:51 3358 Sep 19 22:03 3358 Sep 20 03:49 3358 Sep 27 01:30 3358 Sep 29 10:47 3358 Oct 03 07:12	0° Ω 5° Ω 51'18 3° Ω 26'57 0° Ω 37'17 30° R M 27° M 52'36 27° M 39'22 22° M 51'18 22° M 26'32 23° M 33'12	0.62053 AU -3°57'29 3°55'58	evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el	3359 Jul 31 15:13 3359 Aug 05 10:21 3359 Aug 19 09:22 3359 Aug 26 03:49 3359 Aug 30 00:08 3359 Sep 02 06:32 3359 Sep 02 11:23 3359 Sep 09 20:59 3359 Sep 12 06:21 3359 Sep 19 19:16	5° m 30'58 10° m 37'25 17° m 48'45 15° m 52'33 13° m 16'21 10° m 39'01 10° m 29'16 5° m 59'32 5° m 38'28 9° m 19'31	0.60020 AU -4°42'39 4°41'52
retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el	3358 Aug 24 20:48 3358 Sep 06 03:38 3358 Sep 13 07:48 3358 Sep 16 22:13 3358 Sep 17 14:51 3358 Sep 19 22:03 3358 Sep 20 03:49 3358 Sep 27 01:30 3358 Sep 29 10:47 3358 Oct 03 07:12 3358 Oct 06 07:44 3358 Oct 09 18:53	0° Ω 5° Ω 51'18 3° Ω 26'57 0° Ω 37'17 30° R M 27° M 52'36 27° M 39'22 22° M 51'18 22° M 26'32 23° M 33'12 25° M 55'16 0° Ω	0.62053 AU -3°57'29 3°55'58	evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node	3359 Jul 31 15:13 3359 Aug 05 10:21 3359 Aug 19 09:22 3359 Aug 26 03:49 3359 Aug 30 00:08 3359 Sep 02 06:32 3359 Sep 02 11:23 3359 Sep 09 20:59 3359 Sep 12 06:21 3359 Sep 19 19:16 3359 Sep 20 04:16 3359 Oct 03 06:16	5° m 30'58 10° m 37'25 17° m 48'45 15° m 52'33 13° m 16'21 10° m 39'01 10° m 29'16 5° m 59'32 5° m 38'28 9° m 19'31 9° m 41'43 0° Ω	0.60020 AU -4°42'39 4°41'52
retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node	3358 Aug 24 20:48 3358 Sep 06 03:38 3358 Sep 13 07:48 3358 Sep 16 22:13 3358 Sep 17 14:51 3358 Sep 19 22:03 3358 Sep 20 03:49 3358 Sep 27 01:30 3358 Sep 29 10:47 3358 Oct 03 07:12 3358 Oct 06 07:44 3358 Oct 09 18:53 3358 Oct 22 05:50	0° Ω 5° Ω 51'18 3° Ω 26'57 0° Ω 37'17 30° R M 27° M 52'36 27° M 39'22 22° M 51'18 22° M 26'32 23° M 33'12 25° M 55'16 0° Ω 20° Ω 50'25	0.62053 AU -3°57'29 3°55'58	evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el	3359 Jul 31 15:13 3359 Aug 05 10:21 3359 Aug 19 09:22 3359 Aug 26 03:49 3359 Aug 30 00:08 3359 Sep 02 06:32 3359 Sep 02 11:23 3359 Sep 09 20:59 3359 Sep 12 06:21 3359 Sep 19 19:16 3359 Sep 20 04:16	5° m 30'58 10° m 37'25 17° m 48'45 15° m 52'33 13° m 16'21 10° m 39'01 10° m 29'16 5° m 59'32 5° m 38'28 9° m 19'31 9° m 41'43	0.60020 AU -4°42'39 4°41'52
retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el	3358 Aug 24 20:48 3358 Sep 06 03:38 3358 Sep 13 07:48 3358 Sep 16 22:13 3358 Sep 17 14:51 3358 Sep 19 22:03 3358 Sep 20 03:49 3358 Sep 27 01:30 3358 Sep 29 10:47 3358 Oct 03 07:12 3358 Oct 06 07:44 3358 Oct 09 18:53	0° Ω 5° Ω 51'18 3° Ω 26'57 0° Ω 37'17 30° R M 27° M 52'36 27° M 39'22 22° M 51'18 22° M 26'32 23° M 33'12 25° M 55'16 0° Ω	0.62053 AU -3°57'29 3°55'58	evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node	3359 Jul 31 15:13 3359 Aug 05 10:21 3359 Aug 19 09:22 3359 Aug 26 03:49 3359 Aug 30 00:08 3359 Sep 02 06:32 3359 Sep 02 11:23 3359 Sep 09 20:59 3359 Sep 12 06:21 3359 Sep 19 19:16 3359 Sep 20 04:16 3359 Oct 03 06:16 3359 Oct 05 15:52	5° m 30'58 10° m 37'25 17° m 48'45 15° m 52'33 13° m 16'21 10° m 39'01 10° m 29'16 5° m 59'32 5° m 38'28 9° m 19'31 9° m 41'43 0° Ω 4° Ω 30'36	0.60020 AU -4°42'39 4°41'52 18°12'27
retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el	3358 Aug 24 20:48 3358 Sep 06 03:38 3358 Sep 13 07:48 3358 Sep 16 22:13 3358 Sep 17 14:51 3358 Sep 19 22:03 3358 Sep 20 03:49 3358 Sep 27 01:30 3358 Sep 29 10:47 3358 Oct 03 07:12 3358 Oct 06 07:44 3358 Oct 09 18:53 3358 Oct 22 05:50	0° Ω 5° Ω 51'18 3° Ω 26'57 0° Ω 37'17 30° R M 27° M 52'36 27° M 39'22 22° M 51'18 22° M 26'32 23° M 33'12 25° M 55'16 0° Ω 20° Ω 50'25	0.62053 AU -3°57'29 3°55'58	evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node morning set superior conj	3359 Jul 31 15:13 3359 Aug 05 10:21 3359 Aug 19 09:22 3359 Aug 26 03:49 3359 Aug 30 00:08 3359 Sep 02 06:32 3359 Sep 02 11:23 3359 Sep 09 20:59 3359 Sep 12 06:21 3359 Sep 19 19:16 3359 Sep 20 04:16 3359 Oct 03 06:16	5° m 30'58 10° m 37'25 17° m 48'45 15° m 52'33 13° m 16'21 10° m 39'01 10° m 29'16 5° m 59'32 5° m 38'28 9° m 19'31 9° m 41'43 0° Ω 4° Ω 30'36	0.60020 AU -4°42'39 4°41'52
retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el	3358 Aug 24 20:48 3358 Sep 06 03:38 3358 Sep 13 07:48 3358 Sep 16 22:13 3358 Sep 17 14:51 3358 Sep 19 22:03 3358 Sep 20 03:49 3358 Sep 27 01:30 3358 Sep 29 10:47 3358 Oct 03 07:12 3358 Oct 06 07:44 3358 Oct 09 18:53 3358 Oct 22 05:50	0° Ω 5° Ω 51'18 3° Ω 26'57 0° Ω 37'17 30° R M 27° M 52'36 27° M 39'22 22° M 51'18 22° M 26'32 23° M 33'12 25° M 55'16 0° Ω 20° Ω 50'25	0.62053 AU -3°57'29 3°55'58 17°53'03	evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node morning set superior conj	3359 Jul 31 15:13 3359 Aug 05 10:21 3359 Aug 19 09:22 3359 Aug 26 03:49 3359 Aug 30 00:08 3359 Sep 02 06:32 3359 Sep 02 11:23 3359 Sep 09 20:59 3359 Sep 12 06:21 3359 Sep 19 19:16 3359 Sep 20 04:16 3359 Oct 03 06:16 3359 Oct 05 15:52	5° m 30'58 10° m 37'25 17° m 48'45 15° m 52'33 13° m 16'21 10° m 39'01 10° m 29'16 5° m 59'32 5° m 38'28 9° m 19'31 9° m 41'43 0° Ω 4° Ω 30'36	0.60020 AU -4°42'39 4°41'52 18°12'27
retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el morning set	3358 Aug 24 20:48 3358 Sep 06 03:38 3358 Sep 13 07:48 3358 Sep 16 22:13 3358 Sep 17 14:51 3358 Sep 19 22:03 3358 Sep 20 03:49 3358 Sep 27 01:30 3358 Sep 29 10:47 3358 Oct 03 07:12 3358 Oct 06 07:44 3358 Oct 09 18:53 3358 Oct 22 05:50 3358 Oct 27 08:15	0° Ω 5° Ω 51'18 3° Ω 26'57 0° Ω 37'17 30° R M 27° M 52'36 27° M 39'22 22° M 51'18 22° M 26'32 23° M 33'12 25° M 55'16 0° Ω 20° Ω 50'25 0° M	0.62053 AU -3°57'29 3°55'58 17°53'03	evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node	3359 Jul 31 15:13 3359 Aug 05 10:21 3359 Aug 19 09:22 3359 Aug 26 03:49 3359 Aug 30 00:08 3359 Sep 02 06:32 3359 Sep 02 11:23 3359 Sep 09 20:59 3359 Sep 12 06:21 3359 Sep 19 19:16 3359 Sep 20 04:16 3359 Oct 03 06:16 3359 Oct 05 15:52 3359 Oct 15 03:09 3359 Oct 15 07:07	5° m 30'58 10° m 37'25 17° m 48'45 15° m 52'33 13° m 16'21 10° m 39'01 10° m 29'16 5° m 59'32 5° m 38'28 9° m 19'31 9° m 41'43 0° Ω 4° Ω 30'36 22° Ω 08'58 22° Ω 26'54	0.60020 AU -4°42'39 4°41'52 18°12'27
retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el morning set	3358 Aug 24 20:48 3358 Sep 06 03:38 3358 Sep 13 07:48 3358 Sep 16 22:13 3358 Sep 17 14:51 3358 Sep 19 22:03 3358 Sep 20 03:49 3358 Sep 27 01:30 3358 Sep 29 10:47 3358 Oct 03 07:12 3358 Oct 06 07:44 3358 Oct 09 18:53 3358 Oct 22 05:50 3358 Oct 27 08:15 3358 Nov 02 02:18 3358 Nov 02 06:23	0° Ω 5° Ω 51'18 3° Ω 26'57 0° Ω 37'17 30° R M 27° M 52'36 27° M 39'22 22° M 51'18 22° M 26'32 23° M 33'12 25° M 55'16 0° Ω 20° Ω 50'25 0° M 10° M 03'12 10° M 20'42	0.62053 AU -3°57'29 3°55'58 17°53'03 0°51'22 0°50'50	evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node morning set superior conj minimum elong	3359 Jul 31 15:13 3359 Aug 05 10:21 3359 Aug 19 09:22 3359 Aug 26 03:49 3359 Aug 30 00:08 3359 Sep 02 06:32 3359 Sep 02 11:23 3359 Sep 09 20:59 3359 Sep 12 06:21 3359 Sep 19 19:16 3359 Sep 20 04:16 3359 Oct 03 06:16 3359 Oct 05 15:52 3359 Oct 15 03:09 3359 Oct 15 07:07 3359 Oct 19 13:11	5° m 30'58 10° m 37'25 17° m 48'45 15° m 52'33 13° m 16'21 10° m 39'01 10° m 29'16 5° m 59'32 5° m 38'28 9° m 19'31 9° m 41'43 0° Ω 4° Ω 30'36 22° Ω 26'54 0° M	0.60020 AU -4°42'39 4°41'52 18°12'27
retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el morning set	3358 Aug 24 20:48 3358 Sep 06 03:38 3358 Sep 13 07:48 3358 Sep 16 22:13 3358 Sep 17 14:51 3358 Sep 19 22:03 3358 Sep 20 03:49 3358 Sep 27 01:30 3358 Sep 29 10:47 3358 Oct 03 07:12 3358 Oct 06 07:44 3358 Oct 09 18:53 3358 Oct 22 05:50 3358 Oct 27 08:15	0° Ω 5° Ω 51'18 3° Ω 26'57 0° Ω 37'17 30° R M 27° M 52'36 27° M 39'22 22° M 51'18 22° M 26'32 23° M 33'12 25° M 55'16 0° Ω 20° Ω 50'25 0° M	0.62053 AU -3°57'29 3°55'58 17°53'03	evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node morning set superior conj	3359 Jul 31 15:13 3359 Aug 05 10:21 3359 Aug 19 09:22 3359 Aug 26 03:49 3359 Aug 30 00:08 3359 Sep 02 06:32 3359 Sep 02 11:23 3359 Sep 09 20:59 3359 Sep 12 06:21 3359 Sep 19 19:16 3359 Sep 20 04:16 3359 Oct 03 06:16 3359 Oct 05 15:52 3359 Oct 15 03:09 3359 Oct 15 07:07	5° m 30'58 10° m 37'25 17° m 48'45 15° m 52'33 13° m 16'21 10° m 39'01 10° m 29'16 5° m 59'32 5° m 38'28 9° m 19'31 9° m 41'43 0° Ω 4° Ω 30'36 22° Ω 08'58 22° Ω 26'54	0.60020 AU -4°42'39 4°41'52 18°12'27
retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el morning set	3358 Aug 24 20:48 3358 Sep 06 03:38 3358 Sep 13 07:48 3358 Sep 16 22:13 3358 Sep 17 14:51 3358 Sep 19 22:03 3358 Sep 20 03:49 3358 Sep 27 01:30 3358 Sep 29 10:47 3358 Oct 03 07:12 3358 Oct 06 07:44 3358 Oct 09 18:53 3358 Oct 22 05:50 3358 Oct 27 08:15 3358 Nov 02 02:18 3358 Nov 02 06:23	0° Ω 5° Ω 51'18 3° Ω 26'57 0° Ω 37'17 30° R M 27° M 52'36 27° M 39'22 22° M 51'18 22° M 26'32 23° M 33'12 25° M 55'16 0° Ω 20° Ω 50'25 0° M 10° M 03'12 10° M 20'42	0.62053 AU -3°57'29 3°55'58 17°53'03 0°51'22 0°50'50	evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node morning set superior conj minimum elong	3359 Jul 31 15:13 3359 Aug 05 10:21 3359 Aug 19 09:22 3359 Aug 26 03:49 3359 Aug 30 00:08 3359 Sep 02 06:32 3359 Sep 02 11:23 3359 Sep 09 20:59 3359 Sep 12 06:21 3359 Sep 19 19:16 3359 Sep 20 04:16 3359 Oct 03 06:16 3359 Oct 05 15:52 3359 Oct 15 03:09 3359 Oct 15 07:07 3359 Oct 19 13:11	5° m 30'58 10° m 37'25 17° m 48'45 15° m 52'33 13° m 16'21 10° m 39'01 10° m 29'16 5° m 59'32 5° m 38'28 9° m 19'31 9° m 41'43 0° Ω 4° Ω 30'36 22° Ω 26'54 0° M	0.60020 AU -4°42'39 4°41'52 18°12'27
retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el morning set superior conj minimum elong max. Earth dist.	3358 Aug 24 20:48 3358 Sep 06 03:38 3358 Sep 13 07:48 3358 Sep 16 22:13 3358 Sep 17 14:51 3358 Sep 19 22:03 3358 Sep 20 03:49 3358 Sep 27 01:30 3358 Sep 29 10:47 3358 Oct 03 07:12 3358 Oct 06 07:44 3358 Oct 09 18:53 3358 Oct 22 05:50 3358 Oct 27 08:15 3358 Nov 02 02:18 3358 Nov 02 06:23 3358 Nov 09 09:02	0° Ω 5° Ω 51'18 3° Ω 26'57 0° Ω 37'17 30° R M 27° M 52'36 27° M 39'22 22° M 51'18 22° M 26'32 23° M 33'12 25° M 55'16 0° Ω 20° Ω 50'25 0° M 10° M 03'12 10° M 20'42 22° M 14'02	0.62053 AU -3°57'29 3°55'58 17°53'03 0°51'22 0°50'50	evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist.	3359 Jul 31 15:13 3359 Aug 05 10:21 3359 Aug 19 09:22 3359 Aug 26 03:49 3359 Aug 30 00:08 3359 Sep 02 06:32 3359 Sep 02 11:23 3359 Sep 09 20:59 3359 Sep 12 06:21 3359 Sep 19 19:16 3359 Sep 20 04:16 3359 Oct 03 06:16 3359 Oct 05 15:52 3359 Oct 15 03:09 3359 Oct 15 07:07 3359 Oct 19 13:11 3359 Oct 22 17:53	5° m 30'58 10° m 37'25 17° m 48'45 15° m 52'33 13° m 16'21 10° m 39'01 10° m 29'16 5° m 59'32 5° m 38'28 9° m 19'31 9° m 41'43 0° \(\Omega \) 4° \(\Omega \) 30'36 22° \(\Omega \) 08'58 22° \(\Omega \) 26'54 0° m 5° \(\mathref{M} \) 5° \(\mathref{M} \) 29'42	0.60020 AU -4°42'39 4°41'52 18°12'27
retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el morning set superior conj minimum elong max. Earth dist. desc. node	3358 Aug 24 20:48 3358 Sep 06 03:38 3358 Sep 13 07:48 3358 Sep 13 07:48 3358 Sep 17 14:51 3358 Sep 19 22:03 3358 Sep 20 03:49 3358 Sep 27 01:30 3358 Sep 29 10:47 3358 Oct 03 07:12 3358 Oct 06 07:44 3358 Oct 09 18:53 3358 Oct 22 05:50 3358 Nov 02 02:18 3358 Nov 02 02:18 3358 Nov 02 06:23 3358 Nov 09 09:02 3358 Nov 09 17:29 3358 Nov 14 04:56	0° Ω 5° Ω 51'18 3° Ω 26'57 0° Ω 37'17 30° R M 27° M 52'36 27° M 39'22 22° M 51'18 22° M 26'32 23° M 33'12 25° M 55'16 0° Ω 20° Ω 50'25 0° M 10° M 03'12 10° M 20'42 22° M 14'02 22° M 14'02 22° M 48'28 0° 🗷	0.62053 AU -3°57'29 3°55'58 17°53'03 0°51'22 0°50'50	evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise	3359 Jul 31 15:13 3359 Aug 05 10:21 3359 Aug 19 09:22 3359 Aug 26 03:49 3359 Aug 30 00:08 3359 Sep 02 06:32 3359 Sep 02 11:23 3359 Sep 09 20:59 3359 Sep 12 06:21 3359 Sep 12 06:21 3359 Sep 12 06:16 3359 Sep 20 04:16 3359 Oct 03 06:16 3359 Oct 05 15:52 3359 Oct 15 03:09 3359 Oct 15 07:07 3359 Oct 19 13:11 3359 Oct 22 17:53 3359 Oct 27 16:55 3359 Oct 27 14:30	5° m 30'58 10° m 37'25 17° m 48'45 15° m 52'33 13° m 16'21 10° m 39'01 10° m 29'16 5° m 59'32 5° m 38'28 9° m 19'31 9° m 41'43 0° Ω 4° Ω 30'36 22° Ω 08'58 22° Ω 26'54 0° m 5° m 29'42 13° m 43'46 13° m 33'58	0.60020 AU -4°42'39 4°41'52 18°12'27
retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el morning set superior conj minimum elong max. Earth dist.	3358 Aug 24 20:48 3358 Sep 06 03:38 3358 Sep 13 07:48 3358 Sep 16 22:13 3358 Sep 17 14:51 3358 Sep 19 22:03 3358 Sep 20 03:49 3358 Sep 27 01:30 3358 Sep 29 10:47 3358 Oct 03 07:12 3358 Oct 06 07:44 3358 Oct 09 18:53 3358 Oct 22 05:50 3358 Oct 27 08:15 3358 Nov 02 02:18 3358 Nov 02 06:23 3358 Nov 09 09:02 3358 Nov 09 17:29 3358 Nov 14 04:56 3358 Nov 16 12:16	0° Ω 5° Ω 51'18 3° Ω 26'57 0° Ω 37'17 30° R M 27° M 52'36 27° M 39'22 22° M 51'18 22° M 26'32 23° M 33'12 25° M 55'16 0° Ω 20° Ω 50'25 0° M 10° M 03'12 10° M 20'42 22° M 14'02 22° M 14'02 22° M 48'28 0° 🗷 3° ጃ 37'48	0.62053 AU -3°57'29 3°55'58 17°53'03 0°51'22 0°50'50	evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise	3359 Jul 31 15:13 3359 Aug 05 10:21 3359 Aug 19 09:22 3359 Aug 26 03:49 3359 Aug 30 00:08 3359 Sep 02 06:32 3359 Sep 02 11:23 3359 Sep 02 20:59 3359 Sep 12 06:21 3359 Sep 12 06:21 3359 Sep 12 06:16 3359 Oct 03 06:16 3359 Oct 05 15:52 3359 Oct 15 03:09 3359 Oct 15 07:07 3359 Oct 17:53 3359 Oct 22 17:53 3359 Oct 27 16:55 3359 Oct 27 14:30 3359 Nov 07 02:48	5° m 30'58 10° m 37'25 17° m 48'45 15° m 52'33 13° m 16'21 10° m 39'01 10° m 29'16 5° m 59'32 5° m 38'28 9° m 19'31 9° m 41'43 0° Ω 4° Ω 30'36 22° Ω 08'58 22° Ω 26'54 0° m 5° m 29'42 13° m 43'46 13° m 33'58 0° 🕏	0.60020 AU -4°42'39 4°41'52 18°12'27
retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el morning set superior conj minimum elong max. Earth dist. desc. node evening rise	3358 Aug 24 20:48 3358 Sep 06 03:38 3358 Sep 13 07:48 3358 Sep 16 22:13 3358 Sep 17 14:51 3358 Sep 19 22:03 3358 Sep 20 03:49 3358 Sep 27 01:30 3358 Sep 29 10:47 3358 Oct 03 07:12 3358 Oct 06 07:44 3358 Oct 09 18:53 3358 Oct 22 05:50 3358 Oct 27 08:15 3358 Nov 02 02:18 3358 Nov 02 06:23 3358 Nov 09 09:02 3358 Nov 09 17:29 3358 Nov 14 04:56 3358 Nov 16 12:16 3358 Dec 04 03:54	0° Ω 5° Ω 51'18 3° Ω 26'57 0° Ω 37'17 30° R M 27° M 52'36 27° M 39'22 22° M 51'18 22° M 26'32 23° M 33'12 25° M 55'16 0° Ω 20° Ω 50'25 0° M 10° M 03'12 10° M 20'42 22° M 14'02 22° M 48'28 0° ጾ 3° ጾ 37'48 0° ጜ	0.62053 AU -3°57'29 3°55'58 17°53'03 0°51'22 0°50'50	evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise desc. node	3359 Jul 31 15:13 3359 Aug 05 10:21 3359 Aug 19 09:22 3359 Aug 26 03:49 3359 Aug 30 00:08 3359 Sep 02 06:32 3359 Sep 02 11:23 3359 Sep 02 20:59 3359 Sep 12 06:21 3359 Sep 12 06:21 3359 Sep 12 06:16 3359 Oct 03 06:16 3359 Oct 05 15:52 3359 Oct 15 03:09 3359 Oct 15 07:07 3359 Oct 15 07:07 3359 Oct 22 17:53 3359 Oct 27 16:55 3359 Oct 27 14:30 3359 Nov 07 02:48 3359 Nov 29 12:59	5° m 30'58 10° m 37'25 17° m 48'45 15° m 52'33 13° m 16'21 10° m 39'01 10° m 29'16 5° m 59'32 5° m 38'28 9° m 19'31 9° m 41'43 0° Ω 4° Ω 30'36 22° Ω 26'54 0° m 5° m 29'42 13° m 43'46 13° m 33'58 0° 🗷 0° ጜ 0° ጜ	0.60020 AU -4°42'39 4°41'52 18°12'27 1°19'30 1°19'04 1.41175 AU
retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el morning set superior conj minimum elong max. Earth dist. desc. node	3358 Aug 24 20:48 3358 Sep 06 03:38 3358 Sep 13 07:48 3358 Sep 16 22:13 3358 Sep 17 14:51 3358 Sep 19 22:03 3358 Sep 20 03:49 3358 Sep 27 01:30 3358 Sep 29 10:47 3358 Oct 03 07:12 3358 Oct 06 07:44 3358 Oct 09 18:53 3358 Oct 22 05:50 3358 Oct 27 08:15 3358 Nov 02 02:18 3358 Nov 02 06:23 3358 Nov 09 09:02 3358 Nov 09 17:29 3358 Nov 14 04:56 3358 Nov 16 12:16	0° Ω 5° Ω 51'18 3° Ω 26'57 0° Ω 37'17 30° R M 27° M 52'36 27° M 39'22 22° M 51'18 22° M 26'32 23° M 33'12 25° M 55'16 0° Ω 20° Ω 50'25 0° M 10° M 03'12 10° M 20'42 22° M 14'02 22° M 14'02 22° M 48'28 0° ズ 3° ズ 37'48 0° ጜ	0.62053 AU -3°57'29 3°55'58 17°53'03 0°51'22 0°50'50	evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise	3359 Jul 31 15:13 3359 Aug 05 10:21 3359 Aug 19 09:22 3359 Aug 26 03:49 3359 Aug 30 00:08 3359 Sep 02 06:32 3359 Sep 02 11:23 3359 Sep 02 20:59 3359 Sep 12 06:21 3359 Sep 12 06:21 3359 Sep 12 06:16 3359 Oct 03 06:16 3359 Oct 05 15:52 3359 Oct 15 03:09 3359 Oct 15 07:07 3359 Oct 17:53 3359 Oct 22 17:53 3359 Oct 27 16:55 3359 Oct 27 14:30 3359 Nov 07 02:48	5° m 30'58 10° m 37'25 17° m 48'45 15° m 52'33 13° m 16'21 10° m 39'01 10° m 29'16 5° m 59'32 5° m 38'28 9° m 19'31 9° m 41'43 0° Ω 4° Ω 30'36 22° Ω 08'58 22° Ω 26'54 0° m 5° m 29'42 13° m 43'46 13° m 33'58 0° 🕏	0.60020 AU -4°42'39 4°41'52 18°12'27
retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el morning set superior conj minimum elong max. Earth dist. desc. node evening rise evening max el	3358 Aug 24 20:48 3358 Sep 06 03:38 3358 Sep 13 07:48 3358 Sep 16 22:13 3358 Sep 17 14:51 3358 Sep 19 22:03 3358 Sep 19 22:03 3358 Sep 20 03:49 3358 Sep 20 10:47 3358 Oct 03 07:12 3358 Oct 06 07:44 3358 Oct 09 18:53 3358 Oct 22 05:50 3358 Oct 27 08:15 3358 Nov 02 02:18 3358 Nov 02 06:23 3358 Nov 09 09:02 3358 Nov 10 17:29 3358 Nov 14 04:56 3358 Nov 16 12:16 3358 Dec 04 03:54 3358 Dec 18 00:08	0° Ω 5° Ω 51'18 3° Ω 26'57 0° Ω 37'17 30° R M 27° M 52'36 27° M 39'22 22° M 51'18 22° M 26'32 23° M 33'12 25° M 55'16 0° Ω 20° Ω 50'25 0° M 10° M 03'12 10° M 20'42 22° M 14'02 22° M 48'28 0° ጾ 3° ጾ 37'48 0° ጜ	0.62053 AU -3°57'29 3°55'58 17°53'03 0°51'22 0°50'50 1.43006 AU	evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise desc. node	3359 Jul 31 15:13 3359 Aug 05 10:21 3359 Aug 19 09:22 3359 Aug 26 03:49 3359 Aug 30 00:08 3359 Sep 02 06:32 3359 Sep 02 11:23 3359 Sep 02 20:59 3359 Sep 12 06:21 3359 Sep 19 19:16 3359 Sep 20 04:16 3359 Oct 03 06:16 3359 Oct 05 15:52 3359 Oct 15 03:09 3359 Oct 15 07:07 3359 Oct 19 13:11 3359 Oct 22 17:53 3359 Oct 27 16:55 3359 Oct 27 14:30 3359 Nov 07 02:48 3359 Nov 29 12:59 3359 Nov 30 16:11	5° m 30'58 10° m 37'25 17° m 48'45 15° m 52'33 13° m 16'21 10° m 39'01 10° m 29'16 5° m 59'32 5° m 38'28 9° m 19'31 9° m 41'43 0° Ω 4° Ω 30'36 22° Ω 26'54 0° m 5° m 29'42 13° m 43'46 13° m 33'58 0° 🗷 0° ጜ 0° ጜ	0.60020 AU -4°42'39 4°41'52 18°12'27 1°19'30 1°19'04 1.41175 AU
retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el morning set superior conj minimum elong max. Earth dist. desc. node evening rise evening max el retrograde	3358 Aug 24 20:48 3358 Sep 06 03:38 3358 Sep 16 22:13 3358 Sep 17 14:51 3358 Sep 19 22:03 3358 Sep 19 22:03 3358 Sep 20 03:49 3358 Sep 20 03:49 3358 Sep 20 10:47 3358 Oct 03 07:12 3358 Oct 06 07:44 3358 Oct 06 07:44 3358 Oct 09 18:53 3358 Oct 22 05:50 3358 Oct 27 08:15 3358 Nov 02 02:18 3358 Nov 02 06:23 3358 Nov 09 09:02 3358 Nov 09 09:02 3358 Nov 14 04:56 3358 Nov 16 12:16 3358 Dec 04 03:54 3358 Dec 18 00:08 3358 Dec 27 02:52	0° Ω 5° Ω 51'18 3° Ω 26'57 0° Ω 37'17 30° R M 27° M 52'36 27° M 39'22 22° M 51'18 22° M 26'32 23° M 33'12 25° M 55'16 0° Ω 20° Ω 50'25 0° M 10° M 03'12 10° M 20'42 22° M 14'02 22° M 48'28 0° ズ 3° ズ 37'48 0° उ 17° ጚ 35'30 23° ጚ 00'55	0.62053 AU -3°57'29 3°55'58 17°53'03 0°51'22 0°50'50 1.43006 AU	evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise desc. node	3359 Jul 31 15:13 3359 Aug 05 10:21 3359 Aug 19 09:22 3359 Aug 26 03:49 3359 Aug 30 00:08 3359 Sep 02 06:32 3359 Sep 02 20:59 3359 Sep 12 06:21 3359 Sep 19 19:16 3359 Sep 19 19:16 3359 Sep 20 04:16 3359 Oct 03 06:16 3359 Oct 05 15:52 3359 Oct 15 07:07 3359 Oct 15 07:07 3359 Oct 17:53 3359 Oct 22 17:53 3359 Oct 27 14:30 3359 Nov 07 02:48 3359 Nov 29 12:59 3359 Nov 30 16:11 3359 Dec 10 21:37	5° m 30'58 10° m 37'25 17° m 48'45 15° m 52'33 13° m 16'21 10° m 39'01 10° m 29'16 5° m 59'32 5° m 38'28 9° m 19'31 9° m 41'43 0° a 4° a 30'36 22° a 26'54 0° m 5° m 29'42 13° m 43'46 13° m 33'58 0° \$7 0° \$5 1° \$510'17 7° \$514'04	0.60020 AU -4°42'39 4°41'52 18°12'27 1°19'30 1°19'04 1.41175 AU
retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el morning set superior conj minimum elong max. Earth dist. desc. node evening rise evening max el retrograde asc. node	3358 Aug 24 20:48 3358 Sep 06 03:38 3358 Sep 16 22:13 3358 Sep 17 14:51 3358 Sep 19 22:03 3358 Sep 19 22:03 3358 Sep 20 03:49 3358 Sep 20 03:49 3358 Sep 20 10:47 3358 Oct 03 07:12 3358 Oct 06 07:44 3358 Oct 09 18:53 3358 Oct 22 05:50 3358 Oct 27 08:15 3358 Nov 02 02:18 3358 Nov 02 06:23 3358 Nov 09 09:02 3358 Nov 09 09:02 3358 Nov 14 04:56 3358 Nov 16 12:16 3358 Dec 04 03:54 3358 Dec 18 00:08 3358 Dec 27 02:52 3358 Dec 30 06:28	0° Ω 5° Ω 51'18 3° Ω 26'57 0° Ω 37'17 30° R M 27° M 52'36 27° M 39'22 22° M 51'18 22° M 26'32 23° M 33'12 25° M 55'16 0° Ω 20° Ω 50'25 0° M 10° M 03'12 10° M 20'42 22° M 14'02 22° M 14'02 22° M 48'28 0° ズ 3° ズ 37'48 0° ℧ 17° ℧ 35'30 23° ℧ 00'55 22° ℧ 07'00	0.62053 AU -3°57'29 3°55'58 17°53'03 0°51'22 0°50'50 1.43006 AU	evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set	3359 Jul 31 15:13 3359 Aug 05 10:21 3359 Aug 19 09:22 3359 Aug 26 03:49 3359 Aug 30 00:08 3359 Sep 02 06:32 3359 Sep 02 11:23 3359 Sep 02 20:59 3359 Sep 12 06:21 3359 Sep 19 19:16 3359 Sep 20 04:16 3359 Oct 03 06:16 3359 Oct 05 15:52 3359 Oct 15 07:07 3359 Oct 15 07:07 3359 Oct 17:53 3359 Oct 27 16:55 3359 Oct 27 16:55 3359 Nov 07 02:48 3359 Nov 29 12:59 3359 Nov 30 16:11 3359 Dec 10 21:37 3359 Dec 15 17:43	5° m 30'58 10° m 37'25 17° m 48'45 15° m 52'33 13° m 16'21 10° m 39'01 10° m 29'16 5° m 59'32 5° m 38'28 9° m 19'31 9° m 41'43 0° a 4° a 30'36 22° a 26'54 0° m 5° m 29'42 13° m 43'46 13° m 33'58 0° 🛪 0° to 10'17 7° to 14'04 5° to 14'55	0.60020 AU -4°42'39 4°41'52 18°12'27 1°19'30 1°19'04 1.41175 AU
retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el morning set superior conj minimum elong max. Earth dist. desc. node evening rise evening max el retrograde	3358 Aug 24 20:48 3358 Sep 06 03:38 3358 Sep 16 22:13 3358 Sep 17 14:51 3358 Sep 19 22:03 3358 Sep 19 22:03 3358 Sep 20 03:49 3358 Sep 20 03:49 3358 Sep 20 10:47 3358 Oct 03 07:12 3358 Oct 06 07:44 3358 Oct 06 07:44 3358 Oct 09 18:53 3358 Oct 22 05:50 3358 Oct 27 08:15 3358 Nov 02 02:18 3358 Nov 02 06:23 3358 Nov 09 09:02 3358 Nov 09 09:02 3358 Nov 14 04:56 3358 Nov 16 12:16 3358 Dec 04 03:54 3358 Dec 18 00:08 3358 Dec 27 02:52	0° Ω 5° Ω 51'18 3° Ω 26'57 0° Ω 37'17 30° R M 27° M 52'36 27° M 39'22 22° M 51'18 22° M 26'32 23° M 33'12 25° M 55'16 0° Ω 20° Ω 50'25 0° M 10° M 03'12 10° M 20'42 22° M 14'02 22° M 48'28 0° ズ 3° ズ 37'48 0° उ 17° ጚ 35'30 23° ጚ 00'55	0.62053 AU -3°57'29 3°55'58 17°53'03 0°51'22 0°50'50 1.43006 AU	evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise desc. node	3359 Jul 31 15:13 3359 Aug 05 10:21 3359 Aug 19 09:22 3359 Aug 26 03:49 3359 Aug 30 00:08 3359 Sep 02 06:32 3359 Sep 02 20:59 3359 Sep 12 06:21 3359 Sep 19 19:16 3359 Sep 19 19:16 3359 Sep 20 04:16 3359 Oct 03 06:16 3359 Oct 05 15:52 3359 Oct 15 07:07 3359 Oct 15 07:07 3359 Oct 17:53 3359 Oct 22 17:53 3359 Oct 27 14:30 3359 Nov 07 02:48 3359 Nov 29 12:59 3359 Nov 30 16:11 3359 Dec 10 21:37	5° m 30'58 10° m 37'25 17° m 48'45 15° m 52'33 13° m 16'21 10° m 39'01 10° m 29'16 5° m 59'32 5° m 38'28 9° m 19'31 9° m 41'43 0° a 4° a 30'36 22° a 26'54 0° m 5° m 29'42 13° m 43'46 13° m 33'58 0° \$7 0° \$5 1° \$510'17 7° \$514'04	0.60020 AU -4°42'39 4°41'52 18°12'27 1°19'30 1°19'04 1.41175 AU
retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el morning set superior conj minimum elong max. Earth dist. desc. node evening rise evening max el retrograde asc. node	3358 Aug 24 20:48 3358 Sep 06 03:38 3358 Sep 16 22:13 3358 Sep 17 14:51 3358 Sep 19 22:03 3358 Sep 19 22:03 3358 Sep 20 03:49 3358 Sep 20 03:49 3358 Sep 20 10:47 3358 Oct 03 07:12 3358 Oct 06 07:44 3358 Oct 09 18:53 3358 Oct 22 05:50 3358 Oct 27 08:15 3358 Nov 02 02:18 3358 Nov 02 06:23 3358 Nov 09 09:02 3358 Nov 09 09:02 3358 Nov 14 04:56 3358 Nov 16 12:16 3358 Dec 04 03:54 3358 Dec 18 00:08 3358 Dec 27 02:52 3358 Dec 30 06:28	0° Ω 5° Ω 51'18 3° Ω 26'57 0° Ω 37'17 30° R M 27° M 52'36 27° M 39'22 22° M 51'18 22° M 26'32 23° M 33'12 25° M 55'16 0° Ω 20° Ω 50'25 0° M 10° M 03'12 10° M 20'42 22° M 14'02 22° M 14'02 22° M 48'28 0° ズ 3° ズ 37'48 0° ℧ 17° ℧ 35'30 23° ℧ 00'55 22° ℧ 07'00	0.62053 AU -3°57'29 3°55'58 17°53'03 0°51'22 0°50'50 1.43006 AU	evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set	3359 Jul 31 15:13 3359 Aug 05 10:21 3359 Aug 19 09:22 3359 Aug 26 03:49 3359 Aug 30 00:08 3359 Sep 02 06:32 3359 Sep 02 11:23 3359 Sep 02 20:59 3359 Sep 12 06:21 3359 Sep 19 19:16 3359 Sep 20 04:16 3359 Oct 03 06:16 3359 Oct 05 15:52 3359 Oct 15 07:07 3359 Oct 15 07:07 3359 Oct 17:53 3359 Oct 27 16:55 3359 Oct 27 16:55 3359 Nov 07 02:48 3359 Nov 29 12:59 3359 Nov 30 16:11 3359 Dec 10 21:37 3359 Dec 15 17:43	5° m 30'58 10° m 37'25 17° m 48'45 15° m 52'33 13° m 16'21 10° m 39'01 10° m 29'16 5° m 59'32 5° m 38'28 9° m 19'31 9° m 41'43 0° a 4° a 30'36 22° a 26'54 0° m 5° m 29'42 13° m 43'46 13° m 33'58 0° 🛪 0° to 10'17 7° to 14'04 5° to 14'55	0.60020 AU -4°42'39 4°41'52 18°12'27 1°19'30 1°19'04 1.41175 AU
retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el morning set superior conj minimum elong max. Earth dist. desc. node evening rise evening max el retrograde asc. node evening set inferior conj	3358 Aug 24 20:48 3358 Sep 06 03:38 3358 Sep 16 22:13 3358 Sep 17 14:51 3358 Sep 19 22:03 3358 Sep 19 22:03 3358 Sep 20 03:49 3358 Sep 20 03:49 3358 Sep 20 10:47 3358 Oct 03 07:12 3358 Oct 06 07:44 3358 Oct 09 18:53 3358 Oct 22 05:50 3358 Oct 27 08:15 3358 Nov 02 02:18 3358 Nov 02 06:23 3358 Nov 09 09:02 3358 Nov 09 09:02 3358 Nov 14 04:56 3358 Nov 16 12:16 3358 Dec 04 03:54 3358 Dec 18 00:08 3358 Dec 27 02:52 3358 Dec 31 10:46 3359 Jan 05 19:05	0° Ω 5° Ω 51'18 3° Ω 26'57 0° Ω 37'17 30° R M 27° M 52'36 27° M 39'22 22° M 51'18 22° M 26'32 23° M 33'12 25° M 55'16 0° Ω 20° Ω 50'25 0° M 10° M 03'12 10° M 20'42 22° M 14'02 22° M 14'02 22° M 48'28 0° ズ 3° ズ 37'48 0° ズ 17° ♂ 35'30 23° ♂ 00'55 22° ♂ 07'00 21° ♂ 18'00 15° ♂ 00'14	0.62053 AU -3°57'29 3°55'58 17°53'03 0°51'22 0°50'50 1.43006 AU 21°44'55	evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set asc. node	3359 Jul 31 15:13 3359 Aug 05 10:21 3359 Aug 19 09:22 3359 Aug 26 03:49 3359 Aug 30 00:08 3359 Sep 02 06:32 3359 Sep 02 20:59 3359 Sep 02 20:59 3359 Sep 12 06:21 3359 Sep 19 19:16 3359 Sep 20 04:16 3359 Oct 03 06:16 3359 Oct 05 15:52 3359 Oct 15 03:09 3359 Oct 15 07:07 3359 Oct 15 07:07 3359 Oct 22 17:53 3359 Oct 27 16:55 3359 Oct 27 14:30 3359 Nov 29 12:59 3359 Nov 30 16:11 3359 Dec 10 21:37 3359 Dec 17 03:32 3359 Dec 20 06:56	5° m 30'58 10° m 37'25 17° m 48'45 15° m 52'33 13° m 16'21 10° m 39'01 10° m 29'16 5° m 59'32 5° m 38'28 9° m 19'31 9° m 41'43 0° \(\odolor \) 4° \(\odolor \) 30'36 22° \(\odolor \) 22° \(\odolor \) 22° \(\odolor \) 30'36 22° \(\odolor \) 4° \(\odolor \) 30'36 22° \(\odolor \) 4° \(\odolor \) 5° \(\odolor \) 5° \(\odolor \) 5° \(\odolor \) 1° \(\odolor \) 3° \(0.60020 AU -4°42'39 4°41'52 18°12'27 1°19'30 1°19'04 1.41175 AU 23°03'40
retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el morning set superior conj minimum elong max. Earth dist. desc. node evening rise evening max el retrograde asc. node evening set inferior conj minimum elong	3358 Aug 24 20:48 3358 Sep 06 03:38 3358 Sep 16 22:13 3358 Sep 17 14:51 3358 Sep 19 22:03 3358 Sep 19 22:03 3358 Sep 20 03:49 3358 Sep 20 03:49 3358 Sep 20 10:47 3358 Oct 03 07:12 3358 Oct 06 07:44 3358 Oct 09 18:53 3358 Oct 22 05:50 3358 Oct 27 08:15 3358 Nov 02 02:18 3358 Nov 02 06:23 3358 Nov 09 09:02 3358 Nov 09 09:02 3358 Nov 14 04:56 3358 Nov 16 12:16 3358 Dec 04 03:54 3358 Dec 18 00:08 3358 Dec 27 02:52 3358 Dec 30 06:28 3359 Jan 05 19:05 3359 Jan 05 16:44	0° Ω 5° Ω 51'18 3° Ω 26'57 0° Ω 37'17 30° R M 27° M 52'36 27° M 39'22 22° M 51'18 22° M 26'32 23° M 33'12 25° M 55'16 0° Ω 20° Ω 50'25 0° M 10° M 03'12 10° M 20'42 22° M 14'02 22° M 16'03 10° M 20'41 10° M 31'12 10° M 20'11 10° M 20'41 10° M 20'41 10° M 20'41 10° M 20'41 11'8	0.62053 AU -3°57'29 3°55'58 17°53'03 0°51'22 0°50'50 1.43006 AU 21°44'55 2°04'30 2°03'42	evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set asc. node inferior conj	3359 Jul 31 15:13 3359 Aug 05 10:21 3359 Aug 19 09:22 3359 Aug 26 03:49 3359 Aug 30 00:08 3359 Sep 02 06:32 3359 Sep 02 20:59 3359 Sep 02 20:59 3359 Sep 12 06:21 3359 Sep 19 19:16 3359 Sep 20 04:16 3359 Oct 03 06:16 3359 Oct 03 06:16 3359 Oct 15 03:09 3359 Oct 15 07:07 3359 Oct 15 07:07 3359 Oct 17:53 3359 Oct 27 16:55 3359 Oct 27 14:30 3359 Nov 07 02:48 3359 Nov 07 02:48 3359 Nov 10 21:37 3359 Dec 10 21:37 3359 Dec 17 03:32 3359 Dec 20 06:56 3359 Dec 21 02:49	5° m 30'58 10° m 37'25 17° m 48'45 15° m 52'33 13° m 16'21 10° m 39'01 10° m 29'16 5° m 59'32 5° m 38'28 9° m 19'31 9° m 41'43 0° Ω 4° Ω 30'36 22° Ω 26'54 0° m 5° m 29'42 13° m 43'46 13° m 33'58 0° ズ 0° ጜ 1° ጜ 10'17 7° ጜ 14'04 5° ጜ 14'55 3° ጜ 54'31 30° ዪ ズ 28° ズ 51'36	0.60020 AU -4°42'39 4°41'52 18°12'27 1°19'30 1°19'04 1.41175 AU 23°03'40
retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el morning set superior conj minimum elong max. Earth dist. desc. node evening rise evening max el retrograde asc. node evening set inferior conj minimum elong min. Earth dist.	3358 Aug 24 20:48 3358 Sep 06 03:38 3358 Sep 16 22:13 3358 Sep 17 14:51 3358 Sep 19 22:03 3358 Sep 19 22:03 3358 Sep 20 03:49 3358 Sep 20 03:49 3358 Sep 20 10:47 3358 Oct 03 07:12 3358 Oct 06 07:44 3358 Oct 09 18:53 3358 Oct 22 05:50 3358 Oct 27 08:15 3358 Nov 02 02:18 3358 Nov 02 06:23 3358 Nov 09 09:02 3358 Nov 09 09:02 3358 Nov 14 04:56 3358 Nov 16 12:16 3358 Dec 04 03:54 3358 Dec 18 00:08 3358 Dec 27 02:52 3358 Dec 30 06:28 3359 Jan 05 19:05 3359 Jan 05 16:44 3359 Jan 05 22:02	0° Ω 5° Ω 51'18 3° Ω 26'57 0° Ω 37'17 30° R M 27° M 52'36 27° M 39'22 22° M 51'18 22° M 26'32 23° M 33'12 25° M 55'16 0° Ω 20° Ω 50'25 0° M 10° M 03'12 10° M 20'42 22° M 14'02 22° M 16'02 21° ♂ 35'30 23° ♂ 00'55 22° ♂ 07'00 21° ♂ 18'00 15° ♂ 00'14 15° ♂ 08'22 14° ♂ 49'59	0.62053 AU -3°57'29 3°55'58 17°53'03 0°51'22 0°50'50 1.43006 AU 21°44'55	evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set asc. node inferior conj minimum elong	3359 Jul 31 15:13 3359 Aug 05 10:21 3359 Aug 19 09:22 3359 Aug 26 03:49 3359 Aug 30 00:08 3359 Sep 02 06:32 3359 Sep 02 11:23 3359 Sep 02 20:59 3359 Sep 12 06:21 3359 Sep 19 19:16 3359 Sep 20 04:16 3359 Oct 03 06:16 3359 Oct 05 15:52 3359 Oct 15 07:07 3359 Oct 15 07:07 3359 Oct 15 07:07 3359 Oct 22 17:53 3359 Oct 27 16:55 3359 Oct 27 14:30 3359 Nov 07 02:48 3359 Nov 07 02:48 3359 Nov 07 02:48 3359 Dec 10 21:37 3359 Dec 10 21:37 3359 Dec 10 21:37 3359 Dec 10 21:37 3359 Dec 20 06:56 3359 Dec 21 02:49 3359 Dec 21 01:06	5° m 30'58 10° m 37'25 17° m 48'45 15° m 52'33 13° m 16'21 10° m 39'01 10° m 29'16 5° m 59'32 5° m 38'28 9° m 19'31 9° m 41'43 0° Ω 4° Ω 30'36 22° Ω 26'54 0° m 5° m 29'42 13° m 43'46 13° m 33'58 0° 🞜 0° ጜ 1° ጜ 10'17 7° ጜ 14'04 5° ጜ 14'55 3° ጜ 54'31 30° ዪ 🎜 28° 🎜 51'36 28° 🗷 57'31	0.60020 AU -4°42'39 4°41'52 18°12'27 1°19'30 1°19'04 1.41175 AU 23°03'40 1°19'11 1°18'32
retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el morning set superior conj minimum elong max. Earth dist. desc. node evening rise evening max el retrograde asc. node evening set inferior conj minimum elong	3358 Aug 24 20:48 3358 Sep 06 03:38 3358 Sep 16 22:13 3358 Sep 17 14:51 3358 Sep 19 22:03 3358 Sep 19 22:03 3358 Sep 20 03:49 3358 Sep 20 03:49 3358 Sep 20 10:47 3358 Oct 03 07:12 3358 Oct 06 07:44 3358 Oct 09 18:53 3358 Oct 22 05:50 3358 Oct 27 08:15 3358 Nov 02 02:18 3358 Nov 02 06:23 3358 Nov 09 09:02 3358 Nov 09 09:02 3358 Nov 14 04:56 3358 Nov 16 12:16 3358 Dec 04 03:54 3358 Dec 18 00:08 3358 Dec 27 02:52 3358 Dec 30 06:28 3359 Jan 05 19:05 3359 Jan 05 16:44	0° Ω 5° Ω 51'18 3° Ω 26'57 0° Ω 37'17 30° R M 27° M 52'36 27° M 39'22 22° M 51'18 22° M 26'32 23° M 33'12 25° M 55'16 0° Ω 20° Ω 50'25 0° M 10° M 03'12 10° M 20'42 22° M 14'02 22° M 16'03 10° M 20'41 10° M 31'12 10° M 20'11 10° M 20'41 10° M 20'41 10° M 20'41 10° M 20'41 11'8	0.62053 AU -3°57'29 3°55'58 17°53'03 0°51'22 0°50'50 1.43006 AU 21°44'55 2°04'30 2°03'42	evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set asc. node inferior conj	3359 Jul 31 15:13 3359 Aug 05 10:21 3359 Aug 19 09:22 3359 Aug 26 03:49 3359 Aug 30 00:08 3359 Sep 02 06:32 3359 Sep 02 20:59 3359 Sep 02 20:59 3359 Sep 12 06:21 3359 Sep 19 19:16 3359 Sep 20 04:16 3359 Oct 03 06:16 3359 Oct 03 06:16 3359 Oct 15 03:09 3359 Oct 15 07:07 3359 Oct 15 07:07 3359 Oct 17:53 3359 Oct 27 16:55 3359 Oct 27 14:30 3359 Nov 07 02:48 3359 Nov 07 02:48 3359 Nov 10 21:37 3359 Dec 10 21:37 3359 Dec 17 03:32 3359 Dec 20 06:56 3359 Dec 21 02:49	5° m 30'58 10° m 37'25 17° m 48'45 15° m 52'33 13° m 16'21 10° m 39'01 10° m 29'16 5° m 59'32 5° m 38'28 9° m 19'31 9° m 41'43 0° Ω 4° Ω 30'36 22° Ω 26'54 0° m 5° m 29'42 13° m 43'46 13° m 33'58 0° ズ 0° ጜ 1° ጜ 10'17 7° ጜ 14'04 5° ጜ 14'55 3° ጜ 54'31 30° ዪ ズ 28° ズ 51'36	0.60020 AU -4°42'39 4°41'52 18°12'27 1°19'30 1°19'04 1.41175 AU 23°03'40
retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el morning set superior conj minimum elong max. Earth dist. desc. node evening rise evening max el retrograde asc. node evening set inferior conj minimum elong min. Earth dist.	3358 Aug 24 20:48 3358 Sep 06 03:38 3358 Sep 16 22:13 3358 Sep 17 14:51 3358 Sep 19 22:03 3358 Sep 19 22:03 3358 Sep 20 03:49 3358 Sep 20 03:49 3358 Sep 20 10:47 3358 Oct 03 07:12 3358 Oct 06 07:44 3358 Oct 09 18:53 3358 Oct 22 05:50 3358 Oct 27 08:15 3358 Nov 02 02:18 3358 Nov 02 06:23 3358 Nov 09 09:02 3358 Nov 09 09:02 3358 Nov 14 04:56 3358 Nov 16 12:16 3358 Dec 04 03:54 3358 Dec 18 00:08 3358 Dec 27 02:52 3358 Dec 30 06:28 3359 Jan 05 19:05 3359 Jan 05 16:44 3359 Jan 05 22:02	0° Ω 5° Ω 51'18 3° Ω 26'57 0° Ω 37'17 30° R M 27° M 52'36 27° M 39'22 22° M 51'18 22° M 26'32 23° M 33'12 25° M 55'16 0° Ω 20° Ω 50'25 0° M 10° M 03'12 10° M 20'42 22° M 14'02 22° M 16'02 21° ♂ 35'30 23° ♂ 00'55 22° ♂ 07'00 21° ♂ 18'00 15° ♂ 00'14 15° ♂ 08'22 14° ♂ 49'59	0.62053 AU -3°57'29 3°55'58 17°53'03 0°51'22 0°50'50 1.43006 AU 21°44'55 2°04'30 2°03'42	evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set asc. node inferior conj minimum elong	3359 Jul 31 15:13 3359 Aug 05 10:21 3359 Aug 19 09:22 3359 Aug 26 03:49 3359 Aug 30 00:08 3359 Sep 02 06:32 3359 Sep 02 11:23 3359 Sep 02 20:59 3359 Sep 12 06:21 3359 Sep 19 19:16 3359 Sep 20 04:16 3359 Oct 03 06:16 3359 Oct 05 15:52 3359 Oct 15 07:07 3359 Oct 15 07:07 3359 Oct 15 07:07 3359 Oct 22 17:53 3359 Oct 27 16:55 3359 Oct 27 14:30 3359 Nov 07 02:48 3359 Nov 07 02:48 3359 Nov 07 02:48 3359 Dec 10 21:37 3359 Dec 10 21:37 3359 Dec 10 21:37 3359 Dec 10 21:37 3359 Dec 20 06:56 3359 Dec 21 02:49 3359 Dec 21 01:06	5° m 30'58 10° m 37'25 17° m 48'45 15° m 52'33 13° m 16'21 10° m 39'01 10° m 29'16 5° m 59'32 5° m 38'28 9° m 19'31 9° m 41'43 0° Ω 4° Ω 30'36 22° Ω 26'54 0° m 5° m 29'42 13° m 43'46 13° m 33'58 0° 🞜 0° ጜ 1° ጜ 10'17 7° ጜ 14'04 5° ጜ 14'55 3° ጜ 54'31 30° ዪ 🎜 28° 🎜 51'36 28° 🗷 57'31	0.60020 AU -4°42'39 4°41'52 18°12'27 1°19'30 1°19'04 1.41175 AU 23°03'40 1°19'11 1°18'32
retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el morning set superior conj minimum elong max. Earth dist. desc. node evening rise evening max el retrograde asc. node evening set inferior conj minimum elong min. Earth dist. morning rise	3358 Aug 24 20:48 3358 Sep 06 03:38 3358 Sep 16 22:13 3358 Sep 17 14:51 3358 Sep 19 22:03 3358 Sep 19 22:03 3358 Sep 20 03:49 3358 Sep 20 03:49 3358 Sep 20 10:47 3358 Oct 03 07:12 3358 Oct 06 07:44 3358 Oct 09 18:53 3358 Oct 22 05:50 3358 Nov 02 02:18 3358 Nov 02 02:18 3358 Nov 02 06:23 3358 Nov 09 17:29 3358 Nov 09 17:29 3358 Nov 14 04:56 3358 Nov 16 12:16 3358 Dec 04 03:54 3358 Dec 18 00:08 3358 Dec 27 02:52 3358 Dec 30 06:28 3358 Dec 31 10:46 3359 Jan 05 19:05 3359 Jan 05 12:02 3359 Jan 05 22:02 3359 Jan 10 22:32	0° Ω 5° Ω51'18 3° Ω26'57 0° Ω37'17 30° R M 27° M 52'36 27° M 39'22 22° M 51'18 22° M 26'32 23° M 33'12 25° M 55'16 0° Ω 20° Ω50'25 0° M 10° M 03'12 10° M 20'42 22° M 14'02 22° M 15° S 35'30 23° S 00'55 22° S 07'00 21° S 18'00 15° S 00'14 15° S 08'22 14° S 49'59 8° S 48'19	0.62053 AU -3°57'29 3°55'58 17°53'03 0°51'22 0°50'50 1.43006 AU 21°44'55 2°04'30 2°03'42 0.67856 AU	evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set asc. node inferior conj minimum elong min. Earth dist.	3359 Jul 31 15:13 3359 Aug 05 10:21 3359 Aug 19 09:22 3359 Aug 26 03:49 3359 Aug 30 00:08 3359 Sep 02 06:32 3359 Sep 02 11:23 3359 Sep 02 20:59 3359 Sep 12 06:21 3359 Sep 19 19:16 3359 Sep 20 04:16 3359 Oct 03 06:16 3359 Oct 05 15:52 3359 Oct 15 07:07 3359 Oct 15 07:07 3359 Oct 15 07:07 3359 Oct 22 17:53 3359 Oct 27 16:55 3359 Oct 27 14:30 3359 Nov 07 02:48 3359 Nov 07 02:48 3359 Nov 07 02:48 3359 Dec 17 03:32 3359 Dec 10 21:37 3359 Dec 10 21:37 3359 Dec 10 21:37 3359 Dec 10 22:49 3359 Dec 21 02:49 3359 Dec 21 01:06 3359 Dec 20 18:47	5° m 30'58 10° m 37'25 17° m 48'45 15° m 52'33 13° m 16'21 10° m 39'01 10° m 29'16 5° m 59'32 5° m 38'28 9° m 19'31 9° m 41'43 0° a 4° a 30'36 22° a 08'58 22° a 26'54 0° m 5° m 29'42 13° m 43'46 13° m 33'58 0° x 0° \text{S} 1° \text{S} 10'17 7° \text{S} 14'04 5° \text{S} 14'55 3° \text{S} 54'31 30° \text{R} 28° x 55'31 29° x 19'19	0.60020 AU -4°42'39 4°41'52 18°12'27 1°19'30 1°19'04 1.41175 AU 23°03'40 1°19'11 1°18'32

morning max el	3360 Jan 08 11:14	26° ₰ 04'57	21°28'55	desc. node	3361 Jan 09 10:47	5°₹39'19	
	3360 Jan 12 00:25	0°ප		morning set	3361 Jan 17 22:56	18° る 38'09	
desc. node	3360 Jan 23 13:46	15°る30'00			3361 Jan 25 05:16	0° ≈	
	3360 Feb 02 07:49	0° ≈		max. Earth dist.	3361 Jan 28 04:53	4° ≈ 45'25	1.43697 AU
morning set	3360 Feb 09 01:17	10° ≈ 28′08					
max. Earth dist.	3360 Feb 15 20:32	21° ≈ 27'44	1.41990 AU	superior conj	3361 Feb 03 01:53	14° ≈ 18′11	-2°03'14
	3360 Feb 20 22:44	0° ∀		minimum elong	3361 Feb 02 22:10	14° ≈ 02'52	2°03'05
					3361 Feb 12 09:33	0° ∀	
superior conj	3360 Feb 23 08:40	4°) €08'56	-2°05'48	evening rise	3361 Feb 15 19:27	5°) 54′00	
minimum elong	3360 Feb 23 10:18	4° ₩ 16'01	2°05'46	asc. node	3361 Feb 28 23:53	27°) 46'40	
evening rise	3360 Mar 05 10:12	23° ¥ 55'51			3361 Mar 02 14:59	$0^{\circ}\mathbf{\Upsilon}$	
•	3360 Mar 08 18:17	$0^{\circ}\mathbf{\Upsilon}$		evening max el	3361 Mar 05 10:25	3° Ƴ 14'40	18°09'23
asc. node	3360 Mar 14 02:50	9° Ƴ 21'42		retrograde	3361 Mar 11 21:15	6° Ƴ 38'03	
evening max el	3360 Mar 21 21:58	20° Y 02'43	18°09'26	evening set	3361 Mar 14 17:22	5° Y 57'19	
retrograde	3360 Mar 28 16:38	23° Y 28'37		inferior conj	3361 Mar 20 22:47	0° Υ 45'13	3°34'53
evening set	3360 Mar 31 07:04	22° Y 58'48		minimum elong	3361 Mar 20 23:52	0° Υ 42'21	3°34'49
inferior conj	3360 Apr 07 01:28	18° Y 07'00	3°10'51		3361 Mar 21 15:50	30°R) €	
minimum elong	3360 Apr 07 04:21	18° Y 00'19	3°10'22	min. Earth dist.	3361 Mar 23 18:03	27°) (48'38	0.62576 AU
min. Earth dist.	3360 Apr 10 08:39	15° Υ 04'53	0.60460 AU	morning rise	3361 Mar 27 05:10	24°) (43'02	0.02370710
morning rise	3360 Apr 13 23:29	12° Υ 18'15	0.00400710	direct	3361 Apr 03 02:49	22°) (43'02'	
direct	3360 Apr 20 14:48	12 γ 10 13 10° Υ 10'54		desc. node	3361 Apr 07 10:01	23° H 01'32	
desc. node	3360 Apr 20 12:59	10°Υ10'55		morning max el	3361 Apr 17 03:20	0° Υ 05'47	27050/10
	-	10 γ 10 33	27°39'55	morning max er	-	0° γ	27 30 19
morning max el	3360 May 04 21:32		21 39 33		3361 Apr 17 01:01	0°8	
	3360 May 14 21:02 3360 Jun 01 21:13	0°B 8°0			3361 May 08 21:30	22° 8 35'59	
				morning set	3361 May 21 01:44		
morning set	3360 Jun 06 00:46	8° Ⅱ 20′24		75 at 15 a	3361 May 24 15:40	0°II	1.00550 1.77
asc. node	3360 Jun 10 02:07	16° Ⅱ 56'16	1.0010 (177	max. Earth dist.	3361 May 26 14:02	4° Ⅱ 06'33	1.32579 AU
max. Earth dist.	3360 Jun 12 06:21	21° Ⅱ 40'42	1.32136 AU	asc. node	3361 May 27 23:08	7° Ⅱ 04'50	
		🗕					
superior conj	3360 Jun 13 06:19	23° ∏ 52'12		superior conj	3361 May 28 15:25	8° Ⅲ 33'00	0°07'08
minimum elong	3360 Jun 13 04:54	23° ∏ 44′24	0°32'35	minimum elong	3361 May 28 15:05	8° Ⅱ 31′08	0°07'03
	3360 Jun 16 01:14	0		behind sun begin	3361 May 28 10:23	8° Ⅱ 05'42	
evening rise	3360 Jun 20 02:22	8°545'43		behind sun end	3361 May 28 19:46	8° Ⅱ 56'36	
	3360 Jul 01 01:32	$0^{\circ}\Omega$		evening rise	3361 Jun 04 14:11	23° Ⅱ 35'50	
evening max el	3360 Jul 17 05:35	21° Ω 51'46	25°26'44		3361 Jun 07 15:59	0 \circ \odot	
desc. node	3360 Jul 17 12:15	22° Ω 07'32			3361 Jun 26 10:17	$0^{\circ}\Omega$	
retrograde	3360 Jul 31 05:14	28° Ω 58'01		evening max el	3361 Jun 28 19:16	2° Ω 27'37	23°55'18
evening set	3360 Aug 06 00:58	27° Ω 39'11		desc. node	3361 Jul 04 09:17	6° Ω 51'54	
min. Earth dist.	3360 Aug 10 17:32	24° Ω 58'45	0.57983 AU	retrograde	3361 Jul 12 12:59	9° Ω 22'07	
inferior conj	3360 Aug 13 20:43	22° Ω 48′02	-5°06'05	evening set	3361 Jul 16 22:44	8° Ω 39'17	
minimum elong	3360 Aug 13 21:53	22° Ω 46′00	5°06'04	min. Earth dist.	3361 Jul 23 05:38	5° Ω 37'43	0.56235 AU
morning rise	3360 Aug 21 21:08	18° Ω 31'11		inferior conj	3361 Jul 25 14:33	4° Ω 10'54	-4°53'00
direct	3360 Aug 24 09:40	18° Ω 11'39		minimum elong	3361 Jul 25 09:54	4° Ω 18′02	4°52'29
morning max el	3360 Sep 01 23:27	22° Ω 15'15	18°52'35	morning rise	3361 Aug 02 23:39	0° Ω 13'13	
asc. node	3360 Sep 06 01:19	26° Ω 57'22			3361 Aug 04 04:42	30° ₹	
	3360 Sep 08 04:03	0° m		direct	3361 Aug 05 17:38	29° 5 53'49	
morning set	3360 Sep 18 12:25	18° m 41'39			3361 Aug 07 05:59	$0^{\circ}\Omega$	
	3360 Sep 24 06:42	0∘ ⊽		morning max el	3361 Aug 15 17:18	4° Ω 31'56	19°54'25
				asc. node	3361 Aug 23 22:21	15° Ω 04'35	
superior conj	3360 Sep 26 23:55	5° £ 13'58	1°36'34		3361 Sep 01 01:39	0° m p	
minimum elong	3360 Sep 27 02:24	5° £ 25'48	1°36'23	morning set	3361 Sep 02 16:03	3° m 13'02	
max. Earth dist.	3360 Oct 03 23:05	18° ≏ 04'59	1.39123 AU	S	1	•	
evening rise	3360 Oct 07 20:56	24° ≏ 54'41		superior conj	3361 Sep 10 11:13	19° m 01'58	1°44'04
8	3360 Oct 10 21:25	0°M		minimum elong	3361 Sep 10 11:56	19° m 05'36	1°44'03
desc. node	3360 Oct 13 11:32	4°M14'21		max. Earth dist.	3361 Sep 16 04:13	0° £ 07'15	1.37090 AU
desc. node	3360 Oct 30 20:11	0° ∡ 7		man. Darut dige.	3361 Sep 16 02:40	0∘ ಹ	1.570,0110
evening max el	3360 Nov 12 05:28	14° ∡ °49′26	24°23'07	evening rise	3361 Sep 19 23:21	ი 7° ჲ 07'31	
retrograde	3360 Nov 23 12:38	21° 🖈 25'55	2. 250,	desc. node	3361 Sep 30 08:34	24° ≏ 44'30	
evening set	3360 Nov 28 22:20	19° ₹ 10'35		desc. Hode	3361 Oct 03 17:23	24 = 44 30 0° M	
asc. node	3360 Dec 03 00:34	14° ₹ 1033		evening max el	3361 Oct 03 17:23 3361 Oct 25 17:41	28°M30'54	25°36'27
min. Earth dist.	3360 Dec 03 00:34 3360 Dec 03 14:48	14° × '33'30' 13° × ⁷ 48'37	0.67671 AU	evening max ei	3361 Oct 25 17:41 3361 Oct 27 07:38	28°11℃30′34 0° √ 7	23 3021
				ratra ara da			
inferior conj	3360 Dec 04 09:32	12° х 45'49 12° х 48'06	0°28'06 0°27'50	retrograde	3361 Nov 06 23:08	5° ₹31'26 3° ₹01'46	
minimum elong	3360 Dec 04 08:52	6° ₹ '48'06	0 2/30	evening set	3361 Nov 12 22:55		
morning rise	3360 Dec 09 19:26			min Footh diet	3361 Nov 15 21:31	30°RM	0.67060 411
direct	3360 Dec 13 14:45	5°×720'16	200144.5	min. Earth dist.	3361 Nov 17 07:44		0.67060 AU
morning max el	3360 Dec 21 08:50		20°14'15	inferior conj	3361 Nov 18 13:25	26°M39'54	
	3361 Jan 05 15:50	0°ප		minimum elong	3361 Nov 18 14:08	26°M37'36	0-2/19

asa mada	2261 Nov. 10, 21,25	240M 50142		morning rise	2262 Nov. 00 12:50	4°M46'23	
asc. node morning rise	3361 Nov 19 21:35 3361 Nov 24 05:40	24°M58'43 20°M45'15		morning rise direct	3362 Nov 08 12:58 3362 Nov 11 11:07	3°M58'31	
direct	3361 Nov 24 03:40 3361 Nov 27 13:22	20 11643 13 19°M41'46		morning max el	3362 Nov 18 02:08	7°M235'39	18°28'59
	3361 Nov 27 13.22 3361 Dec 04 14:20	23°M37'43	19°13'42	morning max er	3362 Dec 03 18:11	/ 1163339 0° √ 1	18 28 39
morning max el	3361 Dec 04 14.20 3361 Dec 09 22:15	23 1163 / 43 0° ⊼ 1	19 13 42	morning set	3362 Dec 03 18:11 3362 Dec 08 02:19	6° ∡ ¹56'49	
greatest brilliancy	3361 Dec 09 22:13	13° ∡ 122'27	-0.7m	desc. node	3362 Dec 08 02:19 3362 Dec 14 04:51	16° х 30 49	
desc. node	3361 Dec 19 02:13 3361 Dec 27 07:49	26° × 04'40	-0.7111	desc. Hode	3362 Dec 14 04:31 3362 Dec 22 15:23	10 メ4101 0°る	
morning set	3361 Dec 27 07.49 3361 Dec 28 00:23	20 x 04 40 27° x 08'59			3302 Dec 22 13.23	0.5	
morning set	3361 Dec 28 00:23	0°る		superior conj	3362 Dec 23 20:27	1°る54'07	-1°02'26
max. Earth dist.	3362 Jan 10 19:49	18° る 43'57	1.44816 AU	minimum elong	3362 Dec 23 20:27 3362 Dec 23 12:48	1°る24'05	
max. Earth dist.	3302 Jan 10 19.49	18 04337	1.44610 AU	max. Earth dist.	3362 Dec 23 12:48 3362 Dec 24 14:12	3°る03'44	1.45227 AU
superior conj	3362 Jan 13 18:05	23° る 21'52	10/11/13	evening rise	3363 Jan 08 20:13	27°る02'58	1.43227 AU
minimum elong	3362 Jan 13 18:03	23 3 21 32 22° る 47'31		evening rise	3363 Jan 10 16:58	27 3 02 38 0° ≈	
minimum clong	3362 Jan 17 21:52	0°≈	1 40 39		3363 Jan 18 10:27	0 ∞ 12°≈11'23	-0.8m
avanina riaa	3362 Jan 28 07:30	0 ≈ 16°≈56'53		greatest brilliancy	3363 Jan 31 06:15	12 ≈ 11 23 0° H	-0.8111
evening rise	3362 Feb 05 05:30	10 ≈30 33		avanina may al	3363 Jan 31 08:23	0° ₩ 05'28	19°04'19
asa mada	3362 Feb	0 X 15° ¥ 28'16		evening max el	3363 Feb 02 17:55	0 X 03 28 2° X 13'45	19 04 19
asc. node		15 X 2810 16° X 37'20	10020100	asc. node			
evening max el	3362 Feb 16 22:41		18°28'00	retrograde	3363 Feb 07 06:17	4° ₩ 00'44	
retrograde	3362 Feb 23 11:05	20°) 11'14		evening set	3363 Feb 10 14:33	2°) 55'45	
evening set	3362 Feb 26 12:52	19° ¥ 18′50	2020101		3363 Feb 13 20:07	30°R≈	2025122
inferior conj	3362 Mar 04 09:02	13°) 48′07	3°38'01	inferior conj	3363 Feb 16 04:33	27°≈08'34	
minimum elong	3362 Mar 04 08:26	13°) 49′53	3°37'59	minimum elong	3363 Feb 16 02:45	27°≈14'15	3°25'18
min. Earth dist.	3362 Mar 06 13:05	11°) 15′58	0.64432 AU	min. Earth dist.	3363 Feb 17 17:14	25°≈12'22	0.65919 AU
morning rise	3362 Mar 10 03:22	7°) 38'42		morning rise	3363 Feb 21 14:37	20° ≈ 55'47	
direct	3362 Mar 16 22:43	4°) 49'31		direct	3363 Feb 28 01:26	18° ≈ 05'54	
desc. node	3362 Mar 25 07:01	8° ∺ 08'48		desc. node	3363 Mar 12 04:03	24°≈57'34	
morning max el	3362 Mar 30 12:39	12°) 43′13	27°24'37	morning max el	3363 Mar 12 22:34	25°≈43'31	26°28'52
	3362 Apr 13 09:04	0° Υ			3363 Mar 16 20:50	0° ∀	
	3362 May 01 10:30	0° 8			3363 Apr 06 21:42	$0^{\circ}\mathbf{\Upsilon}$	
morning set	3362 May 04 18:32	6° 8 23'56		morning set	3363 Apr 17 23:36	19° Ƴ 33'02	
max. Earth dist.	3362 May 09 13:57	16° 8 05'34	1.33453 AU	max. Earth dist.	3363 Apr 22 02:38	27° Ƴ 30′26	1.34788 AU
					3363 Apr 23 08:46	$_{0\circ}$ 8	
superior conj	3362 May 12 20:22	22° 8 56'50					
minimum elong	3362 May 12 21:26	23° 8 02'26	0°20'30	superior conj	3363 Apr 26 18:55	6° 8 56'37	
asc. node	3362 May 14 20:11	27° 8 11'40		minimum elong	3363 Apr 26 21:31	7° 8 09'59	0°49'00
	3362 May 16 03:37	Π $\circ 0$		asc. node	3363 May 01 17:13	17° 8 12'10	
evening rise	3362 May 20 01:28	8° Ⅱ 19'53		evening rise	3363 May 04 10:16	22° 8 50'58	
	3362 May 31 11:55	0 \circ			3363 May 07 22:49	$\Pi^{\circ}0$	
evening max el	3362 Jun 10 10:03	12° © 53'34	22°18'43	evening max el	3363 May 23 09:42	23° Ⅱ 41'45	20°51'01
desc. node	3362 Jun 21 06:16	19° © 08'54		retrograde	3363 Jun 03 21:57	29° Ⅱ 19'04	
retrograde	3362 Jun 23 08:55	19° © 19'10		evening set	3363 Jun 06 00:46	29° Ⅱ 08'23	
evening set	3362 Jun 26 08:04	18° © 59'42		desc. node	3363 Jun 08 03:16	28° Ⅱ 37'59	
min. Earth dist.	3362 Jul 04 16:27	15° © 23'25	0.55114 AU	inferior conj	3363 Jun 15 08:24	25° Ⅱ 10'53	
inferior conj	3362 Jul 05 14:59	14° © 51'35	-3°51'13	minimum elong	3363 Jun 15 02:32	25° Ⅱ 19'14	2°03'59
minimum elong	3362 Jul 05 06:41	15° © 03'19	3°49'04	min. Earth dist.	3363 Jun 16 04:25	24° Ⅱ 42'24	0.54883 AU
morning rise	3362 Jul 14 07:17	11° © 00'43		morning rise	3363 Jun 24 03:57	21° Ⅱ 07'07	
direct	3362 Jul 17 08:35	10° © 39'44		direct	3363 Jun 27 17:50	20° Ⅲ 39'31	
morning max el	3362 Jul 28 23:29	16° © 04'24	21°16'50	morning max el	3363 Jul 10 19:26	26° Ⅱ 55'39	22°54'46
	3362 Aug 08 14:10	0 \circ Ω			3363 Jul 13 19:05	0 \circ	
asc. node	3362 Aug 10 19:24	3° £ 51′23		asc. node	3363 Jul 28 16:27	23° © 08'03	
morning set	3362 Aug 18 00:16	17° Ω 57'44			3363 Aug 01 02:28	$0 {\circ} \Omega$	
	3362 Aug 23 18:14	0° m)		morning set	3363 Aug 02 11:09	2° Ω 50′20	
superior conj	3362 Aug 25 08:44	3° Mp 20'24		superior conj	3363 Aug 09 13:14	17° Ω 59'26	
minimum elong	3362 Aug 25 07:59	3° Mp 16'30		minimum elong	3363 Aug 09 11:28	17° Ω 49'57	
max. Earth dist.	3362 Aug 29 14:30	11° m 58'12	1.35297 AU	max. Earth dist.	3363 Aug 12 09:40		1.33877 AU
evening rise	3362 Sep 02 20:13	20° Mp 12'34			3363 Aug 15 07:26	0° m ∕	
	3362 Sep 08 04:44	0∘ ⊽		evening rise	3363 Aug 17 07:09	3° m 58'33	
desc. node	3362 Sep 17 05:35	14° ≏ 58'49			3363 Aug 31 23:02	0∘ ಹ	
	3362 Sep 27 16:43	0° M		desc. node	3363 Sep 04 02:36	4° £ 50′21	
evening max el	3362 Oct 08 05:58	12°M09'56	26°36'15	evening max el	3363 Sep 20 18:14	25° ≏ 38′20	27°15'06
retrograde	3362 Oct 21 04:36	19° M 24'15			3363 Sep 26 01:54	0° M	
evening set	3362 Oct 27 17:30	16°M44'38		retrograde	3363 Oct 04 04:28	2°M56'47	
min. Earth dist.	3362 Oct 31 19:15	12°M33'32	0.66096 AU	evening set	3363 Oct 11 03:44	0°M14'46	
inferior conj	3362 Nov 02 12:31	10°M30'16	-1°26'40		3363 Oct 11 11:11	30° ₹ Ω	
minimum elong	3362 Nov 02 14:54	10°M23'11	1°25'42	min. Earth dist.	3363 Oct 14 23:15	26° ≏ 38'56	0.64780 AU
asc. node	3362 Nov 06 18:36	5° M 59'31		inferior conj	3363 Oct 17 04:40	24° ≏ 12'38	-2°27'09

	2262 0-4 17 00.45	249 0 01129	2025127		2264 9 15 21.50	159 0 50124	
minimum elong	3363 Oct 17 08:45 3363 Oct 23 14:49	24° ♀ 01'28 18° ♀ 42'28	2 23 37	retrograde	3364 Sep 15 21:50 3364 Sep 23 02:26	15° £ 59'24 13° £ 25'21	
morning rise asc. node	3363 Oct 24 15:38	18° £ 42 28		evening set min. Earth dist.	3364 Sep 26 17:37	13 ≗ 23 21 10° £ 21'05	0.63134 AU
direct	3363 Oct 24 13.38 3363 Oct 26 05:51	18° £ 1940		inferior conj	3364 Sep 29 11:07	7° £ 39'57	
	3363 Nov 01 17:43	21° £ 33'48	18°01'02	•	-	7° £ 26'34	
morning max el	3363 Nov 08 06:06	0°M	18 01 02	minimum elong	3364 Sep 29 16:33 3364 Oct 06 08:04	2° £ 26'50	3 24 23
marning sat		18°ML12'16		morning rise direct		1° £ 58'43	
morning set	3363 Nov 19 09:42 3363 Nov 26 12:26	18°11∟12′16 0° √ 1		asc. node	3364 Oct 08 18:41 3364 Oct 10 12:42	2° £ 13'31	
desc. node	3363 Dec 01 01:53	0 x ⁴ 7° x ⁴24'42		morning max el	3364 Oct 10 12.42 3364 Oct 15 10:09	5° £ 24'40	17°50'37
desc. node	3303 Dec 01 01.33	/ X ·2442		morning max er		0°M	1/303/
gumariar agni	3363 Dec 03 05:42	10° ₹ 52'38	0014142	marning got	3364 Oct 31 08:52 3364 Oct 31 17:37	0°M38'20	
superior conj	3363 Dec 03 03:54	10 x ·32 38 10° x 45′25	0°14'27	morning set	3304 Oct 31 17.37	0 1163820	
minimum elong			0-14-27		2264 Nov. 12, 12, 47	200 m 50100	0°29'58
behind sun begin	3363 Dec 02 23:05	10° ₹ 26'12		superior conj	3364 Nov 12 13:47	20°M59'08	
behind sun end	3363 Dec 03 08:42	11°×704'38	1 44000 ATT	minimum elong	3364 Nov 12 16:42	21°M11'18	0°29'33
max. Earth dist.	3363 Dec 07 09:09	17° ₹ 27'34	1.44899 AU	desc. node	3364 Nov 16 22:55	28°M11'36	
	3363 Dec 15 09:37	0°る		F 4 F	3364 Nov 18 01:40	0° ⊼ ¹	1 42075 444
evening rise	3363 Dec 19 13:14	6° පි 25'11		max. Earth dist.	3364 Nov 19 02:04	1° ∡ 38'21	1.43875 AU
greatest brilliancy	3364 Jan 02 14:36	27° ප් 48'01	-0.6m	evening rise	3364 Nov 27 22:22	15° ∡ '33'45	
	3364 Jan 04 02:32	0° ≈			3364 Dec 07 10:46	0°ಕ	
evening max el	3364 Jan 14 13:48	13° ≈ 36'49	19°56'38	evening max el	3364 Dec 27 13:50	27° る 09'14	21°02'27
asc. node	3364 Jan 20 14:56	17° ≈ 49'15			3364 Dec 30 17:55	0° ≈	
retrograde	3364 Jan 22 03:59	18° ≈ 02'15		retrograde	3365 Jan 05 01:50	2° ≈ 11'16	
evening set	3364 Jan 25 20:07	16° ≈ 43′29		asc. node	3365 Jan 06 11:58	2° ≈ 00'08	
inferior conj	3364 Jan 31 06:24	10° ≈ 42′12	3°01'12	evening set	3365 Jan 09 03:34	0° ≈ 37'24	
minimum elong	3364 Jan 31 03:59	10° ≈ 50′16	3°00'39		3365 Jan 09 21:19	30°Rる	
min. Earth dist.	3364 Feb 01 04:52	9° ≈ 27'06	0.66997 AU	inferior conj	3365 Jan 14 12:08	24° る 24'51	2°27'28
morning rise	3364 Feb 05 11:38	4° ≈ 28'31		minimum elong	3365 Jan 14 09:37	24° る 33'28	2°26'43
direct	3364 Feb 11 09:59	1° ≈ 49'31		min. Earth dist.	3365 Jan 14 21:49	23° る 51'29	0.67661 AU
morning max el	3364 Feb 23 07:24	8° ≈ 55'39	25°12'11	morning rise	3365 Jan 19 15:30	18° る 11'59	
desc. node	3364 Feb 27 01:06	12° ≈ 59'39		direct	3365 Jan 24 23:18	15° る 51'44	
	3364 Mar 10 21:38	0° ∀		morning max el	3365 Feb 04 15:54	22° る 13'49	23°44'57
	3364 Mar 29 11:34	$0^{\circ}\mathbf{\Upsilon}$		•	3365 Feb 11 10:31	0° ≈	
morning set	3364 Mar 30 12:12	1° Y 50'02		desc. node	3365 Feb 12 22:09	1° ≈ 53'35	
max. Earth dist.	3364 Apr 03 03:58	8° Y 32'01	1.36570 AU		3365 Mar 04 05:23	0° ∀	
	1			morning set	3365 Mar 12 02:26	12° ¥ 59'14	
superior conj	3364 Apr 09 08:14	20° Y 24'58	-1°17'31	max. Earth dist.	3365 Mar 15 23:30	19°) 43′20	1.38665 AU
minimum elong	3364 Apr 09 12:13		1°16'53		3365 Mar 21 15:31	0°Υ	
	3364 Apr 14 02:54	0°8				-	
evening rise	3364 Apr 17 14:26	7° 8 03'06		superior conj	3365 Mar 23 08:41	3° Y 12'43	-1°42'17
asc. node	3364 Apr 17 14:15	7° 8 02'12		minimum elong	3365 Mar 23 13:17	3° Y '34'25	1°41'48
use. Hous	3364 Apr 30 12:25	0°II		evening rise	3365 Apr 01 11:21	20° Υ 49'29	1 11 10
evening max el	3364 May 04 21:29	5° I 108'58	19°40'08	asc. node	3365 Apr 04 11:18	26° Y 37'18	
retrograde	3364 May 14 15:41	9° I 53'02	19 10 00	use. Houe	3365 Apr 06 06:19	0°8	
evening set	3364 May 16 15:16	9° ∏ 42'11		evening max el	3365 Apr 17 20:14	17° 8 16'15	18°49'00
inferior conj	3364 May 25 09:18	5° Ⅱ 39'18	-0°06'36	retrograde	3365 Apr 26 01:46	21° 8 17'33	10 15 00
minimum elong	3364 May 25 09:00	5° Ⅱ 39'45	0°06'30	evening set	3365 Apr 28 06:15	21° 8 01'38	
transit middle	3364 May 25 09:00	5° Ⅱ 39'45	0°06'30	inferior conj	3365 May 06 04:38	16° 8 41'56	1°35'09
transit begin	3364 May 25 05:24	5° Ⅱ 45'23	0 00 30	minimum elong	3365 May 06 07:54	16° 8 35'59	1°34'06
transit end	3364 May 25 12:35	5° ∏ 34'07		min. Earth dist.	3365 May 09 10:29	14° 8 21'16	0.57170 AU
desc. node	3364 May 25 00:18	5° I I53′21		desc. node	3365 May 11 21:21	12° 8 46'27	0.37170 AC
min. Earth dist.	3364 May 27 18:07	4° I 10'35	0.55624 AU	morning rise	3365 May 14 06:24	11° 8 33'36	
		1° I 1033	0.55024 AU	direct		10° 8 21'57	
morning rise	3364 Jun 03 00:14				3365 May 19 16:53		26910101
direct	3364 Jun 07 10:39	0° Ⅱ 22'07	24027124	morning max el	3365 Jun 03 00:59	17° 8 50'57	26 10 01
morning max el	3364 Jun 21 09:47	7° Ⅱ 21'37	24°3/34		3365 Jun 13 03:04	0°∏	
	3364 Jul 07 21:20	0°9			3365 Jun 30 04:02	0.22	
asc. node	3364 Jul 14 13:30	12°5546'15		morning set	3365 Jul 01 10:04	2° © 37'07	
morning set	3364 Jul 16 22:56	17° © 45'04		asc. node	3365 Jul 01 10:34	2° © 39'46	
	3364 Jul 22 14:55	0 ° Ω			2265 1 1 22 22 2	1700 1 200	1007/22
	2264 7	00.00	100 415 -	superior conj	3365 Jul 08 09:25	17°5546'29	1°07'22
superior conj	3364 Jul 23 22:08	2° Ω 50'18		minimum elong	3365 Jul 08 07:06	17°533'46	1°06'58
minimum elong	3364 Jul 23 19:51	2° Ω 37'49		max. Earth dist.	3365 Jul 08 23:16	19° © 02'43	1.32271 AU
max. Earth dist.	3364 Jul 25 13:29	6° Ω 23'45	1.32869 AU		3365 Jul 14 00:30	0 \circ Ω	
evening rise	3364 Jul 31 04:17	18° Ω 13'39		evening rise	3365 Jul 15 08:32	2° Ω 48'40	
	3364 Aug 06 05:02	0° m			3365 Jul 30 01:17	0°Щ	
desc. node	3364 Aug 20 23:37	24°M 08'56		desc. node	3365 Aug 07 20:39	12° m 40'53	
	3364 Aug 25 08:44	0。 ত		evening max el	3365 Aug 15 10:57	21° m 10'47	27°04'57
evening max el	3364 Sep 02 04:48	8° ≏ 43'09	27°26'15	retrograde	3365 Aug 29 07:52	28° Mp $23'18$	

	2265 8 05 00-22	2 (0 m, 0 0 1 2 1			2266 A 17 20-12	00 m , 1015 5	
evening set	3365 Sep 05 09:32	26° Mp 09'31	0.61211.411	evening set	3366 Aug 17 20:12	8° Mp 18'55	0.50120 ATT
min. Earth dist.	3365 Sep 09 01:13	23° My 27'38	0.61211 AU	min. Earth dist.	3366 Aug 21 22:49		0.59138 AU
inferior conj	3365 Sep 12 04:38	20° m/44'08		inferior conj	3366 Aug 25 05:36	3° m 14'58	
minimum elong	3365 Sep 12 10:17	20° m/31'49	4°17'13	minimum elong	3366 Aug 25 09:15	3° m 08'02	4°55'40
morning rise	3365 Sep 19 12:49	15° m 51'39			3366 Aug 30 00:40	30°R€	
direct	3365 Sep 21 21:54	15° m 28'36		morning rise	3366 Sep 02 00:29	28° Ω 45'33	
asc. node	3365 Sep 27 09:46	17° m 36'45		direct	3366 Sep 04 10:55	28° Ω 25'19	
morning max el	3365 Sep 29 00:23	19° m 01'08	17°58'50		3366 Sep 09 13:20	0° m ∕	
	3365 Oct 07 00:28	0∘ ত		morning max el	3366 Sep 12 09:10	2°Mp14'11	18°27'02
morning set	3365 Oct 14 19:41	13° ≏ 56'13		asc. node	3366 Sep 14 06:49	4° Mp 15′20	
	3365 Oct 23 15:57	0° M ₊		morning set	3366 Sep 28 10:38	27° m 50'35	
					3366 Sep 29 13:33	0∘ ত	
superior conj	3365 Oct 25 00:44	2°M24'33	1°04'43				
minimum elong	3365 Oct 25 05:02	2°M43'23	1°04'10	superior conj	3366 Oct 07 10:46	14° £ 57'46	1°28'00
max. Earth dist.	3365 Nov 01 14:39	15° M .19'49	1.42281 AU	minimum elong	3366 Oct 07 14:11	15° ≏ 13'36	1°27'41
desc. node	3365 Nov 03 19:56	18°M58'43		max. Earth dist.	3366 Oct 14 21:37	28° ≙ 18'14	1.40311 AU
evening rise	3365 Nov 07 16:08	25°M09'25			3366 Oct 15 21:16	0°M	
	3365 Nov 10 18:05	0° ∡ ¹		evening rise	3366 Oct 19 06:21	5°M41'53	
	3365 Dec 01 09:22	0°రె		desc. node	3366 Oct 21 16:58	9°M42'40	
evening max el	3365 Dec 10 08:25	10°る42'40	22°17'50		3366 Nov 03 21:56	0° √	
retrograde	3365 Dec 19 22:10	16° පි 24'17		evening max el	3366 Nov 22 22:51	24° ҂ 18'56	23°37'40
evening set	3365 Dec 24 11:11	14° ♂ 34'17		3	3366 Nov 30 14:49	0°ਰ	
asc. node	3365 Dec 24 09:02	14° る 38'39		retrograde	3366 Dec 03 15:33	0° ට 38'05	
inferior conj	3365 Dec 29 19:40	8° ਰ 13'41	1°46'02	retrograde	3366 Dec 06 11:22	30°R ✓	
minimum elong	3365 Dec 29 17:32	8° ਰ 21'04	1°45'16	evening set	3366 Dec 08 17:21	28° × ⁷ 31'43	
min. Earth dist.	3365 Dec 29 17:47	8°る21'04	0.67941 AU	asc. node	3366 Dec 11 06:03	25° × 54'20	
	3366 Jan 03 23:45	8 32012 2° る 03'17	0.07941 AU	min. Earth dist.	3366 Dec 13 14:30	23 × 34 20 22° × 50'20	0.67863 AU
morning rise	3366 Jan 08 16:37	2 30317 0° る 05'31				22°×30'20 22°×707'02	0.67863 AU 0°58'11
direct			22017/40	inferior conj	3366 Dec 14 03:11		
morning max el	3366 Jan 18 03:07	5° る 38'49	22°16'48	minimum elong	3366 Dec 14 01:51	22° 🖈 11'33	0°57'39
desc. node	3366 Jan 30 19:10	21° る 24'25		morning rise	3366 Dec 19 10:20	16° ₹ 00'48	
	3366 Feb 05 18:57	0° ≈		direct	3366 Dec 23 13:00	14° 🖈 25'51	20055120
morning set	3366 Feb 20 12:41	22°≈46'41		morning max el	3366 Dec 31 20:23	19° ∡ 14'03	20°55'38
	3366 Feb 24 21:51	0° ∀			3367 Jan 09 16:33	0° ろ	
max. Earth dist.	3366 Feb 25 20:43	1° ∺ 36'07	1.40829 AU	desc. node	3367 Jan 17 16:12	11° る 22'09	
					3367 Jan 29 23:15	0° ≈	
superior conj	3366 Mar 05 15:31	15° ₩ 07'16		morning set	3367 Jan 30 19:49	1°≈20'12	
minimum elong	3366 Mar 05 19:01	15° ¥ 22'53	2°00'08	max. Earth dist.	3367 Feb 08 00:15	14° ≈ 22'47	1.42774 AU
	3366 Mar 13 18:11	0 ° $\mathbf{\gamma}$					
evening rise	3366 Mar 15 21:40	4° Ƴ 00'59		superior conj	3367 Feb 14 23:38	25° ≈ 57'20	-2°06'49
asc. node	3366 Mar 22 08:21	15° Ƴ 51'05		minimum elong	3367 Feb 14 23:15	25° ≈ 55'45	2°06'48
evening max el	3366 Apr 01 02:52	29° Ƴ 55'26	18°18'06		3367 Feb 17 08:31	0° ℋ	
	3366 Apr 01 04:45	9° 8		evening rise	3367 Feb 26 17:22	16°) 28'46	
retrograde	3366 Apr 08 07:02	3° 8 29'57			3367 Mar 06 09:40	0 ° Υ	
evening set	3366 Apr 10 17:50	3° 8 05'53		asc. node	3367 Mar 09 05:23	4° Ƴ 36'37	
	3366 Apr 15 23:59	30° ₹Ƴ		evening max el	3367 Mar 15 14:05	12° Y 58′03	18°07'01
inferior conj	3366 Apr 17 21:27	28° Y 25'46	2°45'01	retrograde	3367 Mar 22 04:22	16° Ƴ 21'28	
minimum elong	3366 Apr 18 01:04	28° Ƴ 18'04	2°44'11	evening set	3367 Mar 24 21:07	15° Ƴ 47'18	
min. Earth dist.	3366 Apr 21 07:44	25° Ƴ 31'41	0.59204 AU	inferior conj	3367 Mar 31 09:33	10° Ƴ 46'48	3°23'59
morning rise	3366 Apr 25 05:35	22° Ƴ 48'28		minimum elong	3367 Mar 31 11:42	10° Ƴ 41'30	3°23'43
desc. node	3366 Apr 28 18:23	21° Y 21'58		min. Earth dist.	3367 Apr 03 12:24	7° Ƴ 43'59	0.61380 AU
direct	3366 May 01 12:31	21° Y 01'22		morning rise	3367 Apr 07 00:28	4° Υ 51'00	
morning max el	3366 May 15 21:33	28° Ƴ 48'40	27°17'02	direct	3367 Apr 13 19:30	2° Y 30'30	
	3366 May 17 01:49	0°8		desc. node	3367 Apr 15 15:24	2° Υ 40'04	
	3366 Jun 06 21:39	0°II		morning max el	3367 Apr 28 00:25	10° Y 27'17	27°48'53
morning set	3366 Jun 15 18:47	17° I I19'56		morning max cr	3367 May 13 05:52	0°8	27 40 33
asc. node	3366 Jun 18 07:37	22° I I42'34			3367 May 19 03:32 3367 May 30 02:07	0°II	
asc. node	3366 Jun 21 15:57	0°9		morning set	3367 May 30 02:07	1° ∏ 47'34	
	5500 Jun 21 15.5/	٠ ٠		asc. node	3367 May 30 23.13 3367 Jun 05 04:40	1 Д4/34 12°Д50'18	
aumorior coni	2266 Jun 22 21:11	2006/11/02	0046127				1 22271 ATT
superior conj	3366 Jun 22 21:11	2°541'03	0°46'27 0°46'05	max. Earth dist.	3367 Jun 05 21:23	14° Ⅱ 21′03	1.32271 AU
minimum elong	3366 Jun 22 19:19	2°930'44		aumari '	2267 I 07 07 46	170 T 2012 4	0022115
max. Earth dist.	3366 Jun 22 11:11	1°945'55	1.32070 AU	superior conj	3367 Jun 07 07:46	17° Ⅱ 28'34	
evening rise	3366 Jun 29 17:19	17°934'31		minimum elong	3367 Jun 07 06:46	17° Ⅱ 23'04	0~22'02
	3366 Jul 05 20:48	0° N			3367 Jun 13 01:29	0°95	
desc. node	3366 Jul 25 17:41	0° Mp 06'24		evening rise	3367 Jun 14 04:33	2°524'43	
_	3366 Jul 25 15:20	0° m)			3367 Jun 29 02:10	0°N	
evening max el	3366 Jul 28 10:03	2° m 50'32	26°10'41	evening max el	3367 Jul 10 02:08	13° Ω 44'51	24°49'25
retrograde	3366 Aug 11 09:30	10° m)00'17		desc. node	3367 Jul 12 14:42	15° Ω 58'59	

retrograde	3367 Jul 24 00:48	20° Ω 48'25		asc. node	3368 May 22 01:42	2° Ⅱ 58'50	
evening set	3367 Jul 29 06:53	20 ∂ ℓ 48 23 19° Ω 45'49		evening rise	3368 May 28 16:21	17° Ⅱ 13'02	
min. Earth dist.	3367 Aug 03 13:32	16° Ω 58'01	0.57175 AU	evening rise	3368 Jun 04 00:10	0°95	
inferior conj	3367 Aug 06 11:02	15° Ω 03'57		evening max el	3368 Jun 20 15:29	24°9513'26	23°13'59
minimum elong	3367 Aug 06 09:49	15°Ω05'56		desc. node	3368 Jun 28 11:41	29°545'08	23 13 37
morning rise	3367 Aug 14 15:19	10°Ω56'20		dese. node	3368 Jun 29 02:23	0°Ω	
direct	3367 Aug 17 05:45	10° Ω 37'10		retrograde	3368 Jul 04 03:26	0° Ω 57'54	
morning max el	3367 Aug 26 09:16	14° £ 54′10	19°16'21	evening set	3368 Jul 07 21:16	0° Ω 27'15	
asc. node	3367 Sep 01 03:51	21° Ω 54'11		C	3368 Jul 09 08:04	30° R ∽	
	3367 Sep 06 02:00	0° m		min. Earth dist.	3368 Jul 15 01:03	27° © 12'22	0.55658 AU
morning set	3367 Sep 12 10:28	12° Mp 10'28		inferior conj	3368 Jul 16 20:48	26°908'18	-4°33'05
				minimum elong	3368 Jul 16 13:59	26°5518'18	4°31'52
superior conj	3367 Sep 20 14:14	28° m 22'18	1°40'48	morning rise	3368 Jul 25 09:07	22°9515'08	
minimum elong	3367 Sep 20 15:58	28° m 30'43	1°40'44	direct	3368 Jul 28 05:50	21°955'20	
	3367 Sep 21 10:24	0∘ ত		morning max el	3368 Aug 07 22:11	26°952'43	20°27'08
max. Earth dist.	3367 Sep 27 01:30	10° ≏ 34'34	1.38229 AU		3368 Aug 10 21:24	$0^{\circ}\Omega$	
evening rise	3367 Sep 30 20:10	17° ≏ 19'33		asc. node	3368 Aug 18 00:54	10° £ 20′01	
	3367 Oct 08 09:15	0° M.		morning set	3368 Aug 26 16:20	26° Ω 48'29	
desc. node	3367 Oct 08 13:59	0°M19'05			3368 Aug 28 05:35	0° m)	
	3367 Oct 29 07:52	0° ∡ ¹					
evening max el	3367 Nov 05 11:20	7° ∡ 759′00	24°55'35	superior conj	3368 Sep 03 06:20	12° m 24'42	1°44'46
retrograde	3367 Nov 17 04:54	14° ∡ 747'46		minimum elong	3368 Sep 03 06:23	12° m 24'58	1°44'46
evening set	3367 Nov 22 20:27	12° ₹ 26′04		max. Earth dist.	3368 Sep 08 08:13	22° m 29'06	1.36286 AU
min. Earth dist.	3367 Nov 27 09:33	7° ∡ 18'37	0.67445 AU	evening rise	3368 Sep 12 07:03	29° m 56'40	
inferior conj	3367 Nov 28 08:54	6° ≯ 01'43	0°05'00		3368 Sep 12 07:46	0∘ ⊽	
minimum elong	3367 Nov 28 08:46	6° ≯ 02'08	0°04'56	desc. node	3368 Sep 24 11:02	20° ≏ 43'29	
transit middle	3367 Nov 28 08:46	6° ≯ 02'08	0°04'56		3368 Sep 30 13:43	0°M₊	
transit begin	3367 Nov 28 06:08	6° ₰ 10'49		evening max el	3368 Oct 17 23:44	21° M 41'07	26°04'07
transit end	3367 Nov 28 11:24	5° ₹ 53'27		retrograde	3368 Oct 30 13:17	28°M48'33	
asc. node	3367 Nov 28 03:04	6° ₹ 20'56		evening set	3368 Nov 05 18:44	26°M14'17	
morning rise	3367 Dec 03 21:14	0° √ 01'55		min. Earth dist.	3368 Nov 10 00:35	21°M42'14	0.66690 AU
Γ	3367 Dec 03 22:21	30°RM		inferior conj	3368 Nov 11 11:01	19°M55'03	
direct	3367 Dec 07 11:18	28°M47'48		minimum elong	3368 Nov 11 12:24	19°M50'43	0°51'44
	3367 Dec 11 05:37	0°×7 2°×750/57	10047127	asc. node	3368 Nov 14 00:04	16°M53'40	
morning max el	3367 Dec 14 21:23	2°× 7 59'57	19°46'37	morning rise	3368 Nov 17 06:30	14°M04'20	
greatest brilliancy	3367 Dec 28 04:29 3368 Jan 03 11:15	20°♂32'50 0°る	-0.7m	direct morning max el	3368 Nov 20 09:54 3368 Nov 27 05:43	13°M07'50 16°M54'36	18°52'39
desc. node	3368 Jan 04 13:12	0 3 1° る 38'57		morning max er	3368 Dec 07 04:08	10 11€3430 0° ⊼ 1	16 32 39
morning set	3368 Jan 09 15:45	9° る 29'27		morning set	3368 Dec 07 04:08 3368 Dec 19 02:01	18° ∡ ¹29'00	
max. Earth dist.	3368 Jan 21 11:08		1.44254 AU	desc. node	3368 Dec 21 10:15	22° × ⁷ 09'37	
max. Latin dist.	3368 Jan 22 17:46	27 ⊙ 3737	1.44254 AU	desc. flode	3368 Dec 26 10:16	22 ス 0 <i>)</i> 37	
	3300 3411 22 17.10	0 / 0 /		max. Earth dist.	3369 Jan 03 03:54		1.45088 AU
superior conj	3368 Jan 26 05:42	5° ≈ 37'08	-1°56'33	max. Bartii dist.	5507 34 11 05 05.51	12 30731	1.13000710
minimum elong	3368 Jan 25 23:29	5°≈12'02		superior conj	3369 Jan 04 13:57	14° ට 21'47	-1°26'51
evening rise	3368 Feb 08 18:01	28° ≈ 03'48		minimum elong	3369 Jan 04 04:49	13° ප් 45'51	
C	3368 Feb 09 21:21	0° ∀		Č	3369 Jan 14 10:29	0° ≈	
asc. node	3368 Feb 24 02:24	22°) 44'38		evening rise	3369 Jan 19 20:07	8° ≈ 41'58	
evening max el	3368 Feb 27 02:48	26°) 15′33	18°15'05		3369 Feb 02 04:22	0°) €	
retrograde	3368 Mar 04 13:16	29°) 41′46		evening max el	3369 Feb 09 14:20	9° ⊁ 41'39	18°41'23
evening set	3368 Mar 07 11:44	28° ¥ 56′16		asc. node	3369 Feb 09 23:24	10° 米 04'17	
inferior conj	3368 Mar 13 12:50	23° ∺ 36′20	3°38'22	retrograde	3369 Feb 16 05:42	13° ¥ 22'57	
minimum elong	3368 Mar 13 13:09	23° ∺ 35′26	3°38'22	evening set	3369 Feb 19 10:13	12° ¥ 25′11	
min. Earth dist.	3368 Mar 16 01:57	20°) (47′57	0.63413 AU	inferior conj	3369 Feb 25 03:25	6° ¥ 47'17	3°34'20
morning rise	3368 Mar 19 13:37	17°) (30′30		minimum elong	3369 Feb 25 02:15	6° ¥ 50'51	3°34'14
direct	3368 Mar 26 11:23	14°) (47′30		min. Earth dist.	3369 Feb 27 00:51	4° ∺ 29'35	0.65124 AU
desc. node	3368 Apr 01 12:24	16°) 32′49		morning rise	3369 Mar 02 17:50	0° ∺ 36′21	
morning max el	3368 Apr 09 07:55	22°) 44'59	27°43'21		3369 Mar 03 11:40	30° R ≈	
	3368 Apr 15 17:53	0°Υ		direct	3369 Mar 09 10:20	27°≈45′15	
	3368 May 05 11:16	0°8			3369 Mar 16 01:37	0°)	
morning set	3368 May 13 21:05	15° 8 52'35	1 22022 :	desc. node	3369 Mar 19 09:26	2°) €27'17	0.000.000
max. Earth dist.	3368 May 19 01:59		1.32892 AU	morning max el	3369 Mar 22 17:34	5°) 32′58	27°03'59
	3368 May 20 16:24	Π $^{\circ}0$			3369 Apr 10 10:07	0°Υ 200 0 25110	
	22/03/ 21 17.22	2011.000	0004133	morning set	3369 Apr 27 09:22	29° Y 25'18	
superior conj	3368 May 21 15:23	2° Ⅱ 03'14		Г. И. Г.	3369 Apr 27 16:33	0°8	1 220/0 444
minimum elong	3368 May 21 15:36	2° ∏ 04'25	0~04.78	max. Earth dist.	3369 May 01 21:21	8° 8 20'00	1.33968 AU
behind sun begin	3368 May 21 10:29	1° Ⅱ 36'57					
behind sun end	3368 May 21 20:42	2° Ⅲ 31'55		superior conj	3369 May 05 17:56	16° 8 18'01	0032155

minimum elong	3369 May 05 19:38	16° 8 26'57	0°32'33	superior conj	3370 Apr 19 13:00	0° 8 06'02	-1°01'35
asc. node	3369 May 08 22:44	23° 8 03'33		minimum elong	3370 Apr 19 16:14	0° 8 22'24	1°01'00
	3369 May 12 05:23	$\Pi^{\circ}0$		asc. node	3370 Apr 25 19:47	13° 8 00'35	
evening rise	3369 May 13 02:51	1° Ⅱ 52'39		evening rise	3370 Apr 27 10:04	16° 8 17'25	
	3369 May 29 04:00	0ಂತಾ			3370 May 04 10:39	Π $^{\circ}0$	
evening max el	3369 Jun 02 09:27	4°5546'02	21°39'42	evening max el	3370 May 15 14:05	15° Ⅱ 49'42	20°18'25
retrograde	3369 Jun 14 18:48	10° © 52'13		retrograde	3370 May 26 08:26	21° Ⅱ 04'19	
desc. node	3369 Jun 15 08:42	10°©51'27		evening set	3370 May 28 08:21	20° ∏ 54'15	
evening set	3369 Jun 17 07:17	10° © 37'52		desc. node	3370 Jun 02 05:42	19° Ⅱ 15'33	
inferior conj	3369 Jun 26 16:35	6°\$36'25	-3°10'35	inferior conj	3370 Jun 06 11:28	16° Ⅱ 55'51	-1°14'58
minimum elong	3369 Jun 26 08:35	6° 5 47'36	3°08'08	minimum elong	3370 Jun 06 07:56	17° Ⅱ 01′03	1°13'40
min. Earth dist.	3369 Jun 26 11:59	6° ॐ 42'50	0.54901 AU	min. Earth dist.	3370 Jun 08 00:22	16° Ⅱ 01'42	0.55089 AU
morning rise	3369 Jul 05 11:00	2° © 42'45		morning rise	3370 Jun 15 06:15	12° ∏ 41′20	
direct	3369 Jul 08 17:04	2°©19'37		direct	3370 Jun 19 03:52	12° Ⅱ 08′28	
morning max el	3369 Jul 20 23:30	8° © 05'57	21°57'05	morning max el	3370 Jul 02 16:26	18° ∏ 43'52	23°38'46
asc. node	3369 Aug 04 21:57	29° © 20'42			3370 Jul 12 00:03	0ა ௐ	
	3369 Aug 05 06:20	0 $^{\circ}$ Ω		asc. node	3370 Jul 22 19:02	18° © 47'28	
morning set	3369 Aug 11 01:56	11° Ω 37'21		morning set	3370 Jul 26 13:25	26° © 31'38	
					3370 Jul 28 04:37	0 $^{\circ}$ Ω	
superior conj	3369 Aug 18 07:11	26° £ 52'44	1°41'27			0	
minimum elong	3369 Aug 18 05:56	26° Ω 46'11	1°41'23	superior conj	3370 Aug 02 13:52	11° Ω 37'38	1°32'05
	3369 Aug 19 19:01	0° m		minimum elong	3370 Aug 02 11:48	11° Ω 26'33	1°31'52
max. Earth dist.	3369 Aug 21 22:26	4° m/24'31	1.34648 AU	max. Earth dist.	3370 Aug 04 21:36	16° Ω 35'55	1.33399 AU
evening rise	3369 Aug 26 10:26	13° Tp 20'26		evening rise	3370 Aug 10 02:08	27° Ω 19'38	
	3369 Sep 04 15:07	0∘ ʊ			3370 Aug 11 10:26	0° m	
desc. node	3369 Sep 11 08:03	10° £ 49'04			3370 Aug 28 21:30	0° Ω	
·	3369 Sep 25 12:32	0°M	26055147	desc. node	3370 Aug 29 05:04	0° Ω 27'44	27922127
evening max el	3369 Sep 30 12:17	5°M17'10	26°55'47	evening max el	3370 Sep 12 23:56		27°23'27
retrograde	3369 Oct 13 16:12	12°M33'20		retrograde	3370 Sep 26 13:14	25° £ 54'05	
evening set	3369 Oct 20 10:04	9°M51'46	0.65502 ATT	evening set	3370 Oct 03 15:47	23° △ 13'42	0.64122.411
min. Earth dist.	3369 Oct 24 09:07 3369 Oct 26 07:27	5°M55'54 3°M42'19	0.65582 AU	min. Earth dist. inferior conj	3370 Oct 07 09:00 3370 Oct 09 19:47	19° 22 32′24 17° 2 18′25	0.64122 AU
minimum elong	3369 Oct 26 07:27 3369 Oct 26 10:33	3°M33'22		minimum elong	3370 Oct 09 19:47 3370 Oct 10 00:31	17 ⊆ 16 23	
minimum ciong	3369 Oct 20 10:35 3369 Oct 29 19:05	30°R <u>Ω</u>	1 31 03	morning rise	3370 Oct 10 00:31 3370 Oct 16 10:27	17 2 00 00 11° 2 55'22	2 30 30
asc. node	3369 Oct 29 19:03 3369 Oct 31 21:07	28° £ 24'17		direct	3370 Oct 10 10:27 3370 Oct 18 23:18	11° ⊆ 33′22	
morning rise	3369 Nov 01 11:50	28° £ 03'51		asc. node	3370 Oct 18 23:18 3370 Oct 18 18:12	11° ⊆ 23'16	
direct	3369 Nov 04 06:47	27° £ 21'15		morning max el	3370 Oct 16 16:12 3370 Oct 25 11:47	14° £ 48'36	17°54'28
unect	3369 Nov 09 21:04	0°M		morning max or	3370 Nov 05 03:51	0°M	17 3120
morning max el	3369 Nov 10 19:26	0°M52'53	18°15'02	morning set	3370 Nov 11 11:14	10°M42'22	
morning set	3369 Nov 29 16:43	28°M55'14	10 10 02	morning sec	3370 Nov 22 23:33	0° √	
	3369 Nov 30 08:37	0° ∡ 7				• •	
desc. node	3369 Dec 08 07:19	12° х 49′31		superior conj	3370 Nov 24 10:11	2° ∡ °21'04	0°05'13
				minimum elong	3370 Nov 24 10:47	2° х 23′29	0°05'08
superior conj	3369 Dec 14 16:32	22° ∡ 757′27	-0°42'29	behind sun begin	3370 Nov 24 01:10	1° ∡ ¹44'24	
minimum elong	3369 Dec 14 11:08	22° ₹ 36'10	0°41'46	behind sun end	3370 Nov 24 20:24	3° ₹ 02'29	
max. Earth dist.	3369 Dec 16 23:27	26° ₹ 33'29	1.45179 AU	desc. node	3370 Nov 25 04:21	3° ∡ ³34'41	
	3369 Dec 19 04:05	ರ°ರ		max. Earth dist.	3370 Nov 29 17:59	10° ∡ ′53'59	1.44535 AU
evening rise	3369 Dec 30 23:36	18° る 27'15		evening rise	3370 Dec 10 11:17	27° ∡ ³38'11	
	3370 Jan 07 09:31	0° ≈			3370 Dec 12 00:13	5°0	
greatest brilliancy	3370 Jan 11 16:06	6° ≈ 34'33	-0.7m		3371 Jan 01 10:29	0° ≈	
evening max el	3370 Jan 23 22:26	23° ≈ 11'49	19°24'43	evening max el	3371 Jan 07 01:31	6° ≈ 42'52	20°23'11
asc. node	3370 Jan 27 20:25	26° ≈ 22'17		asc. node	3371 Jan 14 17:28	11° ≈ 23′16	
retrograde	3370 Jan 31 02:21	27° ≈ 18'47		retrograde	3371 Jan 15 00:29	11° ≈ 23'44	
evening set	3370 Feb 03 13:52	26° ≈ 07'53		evening set	3371 Jan 18 20:28	9° ≈ 58'39	
inferior conj	3370 Feb 09 01:59	20° ≈ 14′12	3°16'29	inferior conj	3371 Jan 24 05:46	3° ≈ 51'55	2°47'57
minimum elong	3370 Feb 08 23:52	20° ≈ 21′05	3°16'07	minimum elong	3371 Jan 24 03:15	4° ≈ 00′28	2°47'18
min. Earth dist.	3370 Feb 10 08:20	18° ≈ 35'30	0.66428 AU	min. Earth dist.	3371 Jan 24 22:33	2° ≈ 54'51	0.67318 AU
morning rise	3370 Feb 14 09:37	14° ≈ 00′55			3371 Jan 27 04:32	30°Rる	
direct	3370 Feb 20 15:26	11° ≈ 14'48		morning rise	3371 Jan 29 09:50	27° පි 38'15	
morning max el	3370 Mar 05 03:14	18° ≈ 40′13	25°58'20	direct	3371 Feb 04 01:59	25° る 06'44	
desc. node	3370 Mar 06 06:29	19° ≈ 50'40			3371 Feb 13 11:35	0° ≈	
	3370 Mar 14 17:24	0°) €		morning max el	3371 Feb 15 11:56		24°35'55
	3370 Apr 03 10:49	0°Υ		desc. node	3371 Feb 21 03:32	8°≈16'49	
morning set	3370 Apr 10 08:09	12° Υ 14'38	1.05500 / **		3371 Mar 08 19:08	0°) {	
max. Earth dist.	3370 Apr 14 05:30	19° Y 35'14	1.35503 AU	morning set	3371 Mar 23 12:04	24°) €05'06	
	3370 Apr 19 11:49	0° 8			3371 Mar 26 19:29	0°Υ 0°Υ27109	1 27422 417
				max. Earth dist.	3371 Mar 27 03:39	0° Ƴ 37'08	1.37433 AU

superior conj	3371 Apr 02 21:20	13° Y 18′05		superior conj	3372 Mar 15 14:53	25° ∺ 44'20	-1°51'01
minimum elong	3371 Apr 03 01:43	13° Ƴ 39'22	1°27'59	minimum elong	3372 Mar 15 19:18		1°50'39
evening rise	3371 Apr 11 11:31	0° 8 19'33			3372 Mar 17 21:53	0 ° $\mathbf{\Upsilon}$	
	3371 Apr 11 07:35	9° 8		evening rise	3372 Mar 25 04:20	13° Ƴ 51'38	
asc. node	3371 Apr 12 16:49	2° 8 44'48		asc. node	3372 Mar 29 13:50	22° Ƴ 11'15	
evening max el	3371 Apr 28 06:45	27° 8 34'14	19°15'50		3372 Apr 03 00:04	0°8	
<i>5</i>	3371 May 01 06:19	0°II		evening max el	3372 Apr 10 09:19	9° 8 56'17	18°33'26
retrograde	3371 May 07 08:32	1° I I58'40		retrograde	3372 Apr 18 02:35	13° 8 43'53	10 33 20
evening set	3371 May 07 08:32 3371 May 09 09:26	1° II 46'17		evening set	3372 Apr 18 02:33 3372 Apr 20 09:44	13° 8 24'51	
evening set	•			•	*		2000140
	3371 May 13 23:19	30°R 8	0020150	inferior conj	3372 Apr 27 23:52	8° 8 57'01	2°08'49
inferior conj	3371 May 17 19:23	27° 8 37'05		minimum elong	3372 Apr 28 03:37	8° 8 49'42	2°07'45
minimum elong	3371 May 17 21:01	27° 8 34'22	0°39'24	min. Earth dist.	3372 May 01 09:39	6° 8 19'01	0.57999 AU
desc. node	3371 May 20 02:44	26° 8 04'50		morning rise	3372 May 05 18:20	3° 8 35'04	
min. Earth dist.	3371 May 20 15:15	25° 8 44'30	0.56199 AU	desc. node	3372 May 05 23:46	3° 8 28'35	
morning rise	3371 May 26 05:32	22° 8 48'16		direct	3372 May 11 14:31	2° 8 08'22	
direct	3371 May 31 01:58	21° 8 54'01		morning max el	3372 May 25 23:39	9° 8 46'54	26°42'14
morning max el	3371 Jun 14 06:38	29° 8 08'25	25°19'06		3372 Jun 10 10:16	$\Pi^{\circ}0$	
•	3371 Jun 15 03:41	$\Pi^{\circ}0$		morning set	3372 Jun 24 11:25	26° Ⅱ 14'25	
	3371 Jul 05 09:43	0ಂತಾ		asc. node	3372 Jun 25 13:08	28° Ⅲ 30'35	
asc. node	3371 Jul 09 16:07	8° 9 32'48		use. Houe	3372 Jun 26 05:51	0°9	
morning set	3371 Jul 11 01:08	11°925'54			3372 Juli 20 03.31	0 3	
morning set	33/1 Jul 11 01.06	11 323 34		aumariar aami	2272 Iul 01 11:44	11962750	0°58'56
	2271 1 1 10 00 02	260521142	1017140	superior conj	3372 Jul 01 11:44	11°927'59	
superior conj	3371 Jul 18 00:02	26°931'43	1°17'40	minimum elong	3372 Jul 01 09:33	11°5515'59	0°58'33
minimum elong	3371 Jul 17 21:41		1°17'19	max. Earth dist.	3372 Jul 01 15:09	11°5546'51	1.32135 AU
max. Earth dist.	3371 Jul 19 04:12	29° © 05'35	1.32562 AU	evening rise	3372 Jul 08 09:05	26° © 24'41	
	3371 Jul 19 14:11	$0^{\circ}\Omega$			3372 Jul 10 02:32	$0^{\circ}\Omega$	
evening rise	3371 Jul 25 02:38	11° Ω 44'07			3372 Jul 27 05:29	0° m	
	3371 Aug 03 15:13	0° m		desc. node	3372 Aug 01 23:06	7° m ∕35'01	
desc. node	3371 Aug 16 02:04	19° ™ 28'28		evening max el	3372 Aug 07 12:15	13° m 34'30	26°45'49
	3371 Aug 24 21:40	0∘ ⊽		retrograde	3372 Aug 21 10:51	20° Mp 46'00	
evening max el	3371 Aug 26 08:45	1° ≏ 26'01	27°21'15	evening set	3372 Aug 28 07:30	18° m 45'00	
retrograde	3371 Sep 09 03:57	8° ≏ 41'39		min. Earth dist.	3372 Sep 01 02:16	16° ™ 07'49	0.60329 AU
evening set	3371 Sep 16 08:28	6° ₽ 14'22		inferior conj	3372 Sep 04 08:06	13° m 28'22	-4°36'56
min. Earth dist.	3371 Sep 19 22:51	3° £ 21'15	0.62338 AU	minimum elong	3372 Sep 04 13:15	13° m)17'47	4°36'01
inferior conj	3371 Sep 22 21:10	0° ჲ 36'56	-3°49'34	morning rise	3372 Sep 11 20:57	8° m)45'19	
minimum elong	3371 Sep 23 02:53	0° £ 23'32		direct	3372 Sep 14 06:06	8° m 23'48	
	3371 Sep 23 13:00	30°R, Mp		morning max el	3372 Sep 21 16:04	12° m/02'29	18°08'15
morning rise	3371 Sep 29 13:00 3371 Sep 29 22:56	25° m/32'31		asc. node	3372 Sep 21 10:01	11° m 53'33	10 00 15
direct	3371 Oct 02 08:24	25° mp 07'01		asc. node	3372 Sep 21 12:21 3372 Oct 03 15:45	0° ⊡	
asc. node	3371 Oct 02 08:24 3371 Oct 05 15:18	25° m 56'32		morning set	3372 Oct 07 11:46	ი — 7° ჲ 07'29	
	3371 Oct 09 13:18	28° m 34'53	17051140	morning set	3372 Oct 07 11.40	/ ==0/29	
morning max el			1/ 3148		2272 0 + 17 02 10	240 0 57147	1016167
	3371 Oct 10 11:45	0∘ ⊽		superior conj	3372 Oct 17 03:19	24° £ 57'47	1°15'57
morning set	3371 Oct 25 03:37	23° △ 32'32		minimum elong	3372 Oct 17 07:26	25° ≙ 16'12	1°15'30
	3371 Oct 28 18:20	0°M₊			3372 Oct 19 23:26	0°M	
				max. Earth dist.	3372 Oct 24 18:38	8°M15'08	1.41474 AU
superior conj	3371 Nov 05 05:55	13°M02'05		desc. node	3372 Oct 28 22:24	15°ML08'18	
minimum elong	3371 Nov 05 09:48	13°M18'36	0°45'33	evening rise	3372 Oct 29 23:41	16°M50'50	
desc. node	3371 Nov 12 01:23	24°M22'15			3372 Nov 07 09:15	0° ∡	
max. Earth dist.	3371 Nov 12 08:44	24°M52'10	1.43247 AU		3372 Nov 29 03:23	0° ප	
	3371 Nov 15 13:14	0° ∡ ¹		evening max el	3372 Dec 02 15:47	3°₹49'44	22°51'41
evening rise	3371 Nov 19 22:07	6° ₹ 53'14		retrograde	3372 Dec 12 17:04	9° る 47'39	
	3371 Dec 05 07:35	5°0		evening set	3372 Dec 17 11:19	7° る 50'55	
evening max el	3371 Dec 20 23:05	20° ප 15'13	21°33'39	asc. node	3372 Dec 18 11:33	6° る 55'22	
retrograde	3371 Dec 29 21:58	25° る 34'35		inferior conj	3372 Dec 22 20:14		1°26'29
asc. node	3372 Jan 01 14:31	24° ප 55'07		minimum elong	3372 Dec 22 18:23	1°る34'37	1°25'46
evening set	3372 Jan 03 04:10	23° ප් 54'08		min. Earth dist.	3372 Dec 22 13:47	1° る 50'31	0.67952 AU
inferior conj	3372 Jan 08 12:30	17° る 37'39	2010/48	mm. Larm dist.	3372 Dec 22 13:47 3372 Dec 23 21:58	30°R. ₹	0.07732710
minimum elong	3372 Jan 08 10:06	17° る 45'58	2°10'00	morning rise	3372 Dec 28 01:20	25° ₹ 19'17	
min. Earth dist.	3372 Jan 08 17:12	17° る 21'21	0.67819 AU	direct	3373 Jan 01 12:06	23° 🗷 31'04	01040150
morning rise	3372 Jan 13 15:51	11° る 25'21		morning max el	3373 Jan 10 10:19	28° х 44'10	21°40'59
direct	3372 Jan 18 17:14	9° る 14'18			3373 Jan 11 15:26	0° ろ	
morning max el	3372 Jan 28 21:06	15° る 16'23	23°07'01	desc. node	3373 Jan 24 21:37	17° る 10'56	
desc. node	3372 Feb 08 00:35	27° る 27'53			3373 Feb 02 14:17	0° ≈	
	3372 Feb 09 21:26	0° ≈		morning set	3373 Feb 11 12:41	13° ≈ 52′34	
	3372 Feb 29 18:55	0°) €		max. Earth dist.	3373 Feb 17 21:43	24°≈14′20	1.41699 AU
morning set	3372 Mar 03 14:54	4°) 40′28			3373 Feb 21 08:07	0° ∀	
max. Earth dist.	3372 Mar 07 22:22	12° ℋ 00′00	1.39590 AU				

superior conj	3373 Feb 25 12:40	7°){ 12'49	2004/40	minimum elong	3374 Feb 06 06:57	17° ≈ 20'34	2004142
minimum elong	3373 Feb 25 12:40 3373 Feb 25 14:53	7° ∺ 22'31	2°04'44	minimum elong	3374 Feb 10 00.37	17 ≈ 20 34 0° H	2 04 42
evening rise	3373 Mar 08 08:54	26°\(\frac{1}{45}\)'09	2 04 44	evening rise	3374 Feb 18 20:58	8° ∺ 50'54	
evening rise	3373 Mar 10 03:22	20 γ (43 0)		asc. node	3374 Mar 03 07:53	29°) 44'09	
asc. node	3373 Mar 16 10:52	11° Υ 13'50		ase. Houe	3374 Mar 03 07:33	0°Υ	
evening max el	3373 Mar 24 18:23	22° Υ 46'59	18°11'05	evening max el	3374 Mar 08 06:33	5° Υ 56'10	18°08'10
retrograde	3373 Mar 31 15:05	26° Υ 14'35	10 11 05	retrograde	3374 Mar 14 18:00	9° Υ 19'15	10 00 10
evening set	3373 Apr 03 04:39	25° Υ 46'15		evening set	3374 Mar 17 13:14	8° Υ 40'16	
inferior conj	3373 Apr 10 01:18	20° Υ 57'25	3°04'59	inferior conj	3374 Mar 23 20:20	3° Υ 31'01	3°32'43
minimum elong	3373 Apr 10 04:25	20°Υ50'20	3°04'23	minimum elong	3374 Mar 23 21:42	3° Υ 27'28	3°32'36
min. Earth dist.	3373 Apr 13 09:34	17° Y 56'41	0.60132 AU	min. Earth dist.	3374 Mar 26 17:39	0° Υ 32'13	0.62270 AU
morning rise	3373 Apr 17 01:54	15° Υ 11'24	0.00132110	mm. Darun alou.	3374 Mar 27 06:49	30°R) €	0.02270110
desc. node	3373 Apr 22 20:47	13° Υ 10'54		morning rise	3374 Mar 30 04:48	27°) 30'13	
direct	3373 Apr 23 15:22	13° Y 09'14		direct	3374 Apr 06 01:59	24°) 58'54	
morning max el	3373 May 07 22:44	21° Υ 00'49	27°35'10	desc. node	3374 Apr 09 17:49	25°) 37'26	
morning max or	3373 May 07 22:11 3373 May 15 17:34	0°8	27 33 10	dese. Hode	3374 Apr 16 23:02	0° Υ	
	3373 Jun 03 07:56	0° I		morning max el	3374 Apr 20 03:52	2°Υ56'27	27°51'12
morning set	3373 Jun 08 18:35	10° I I51'53		morning max or	3374 May 10 04:13	0°8	27 31 12
asc. node	3373 Jun 12 10:09	18° II 36'09		morning set	3374 May 23 20:31	25° 8 10'37	
max. Earth dist.	3373 Jun 15 02:56	24° I I29'10	1.32111 AU	morning sec	3374 May 26 04:42	0°II	
max. Darm dist.	3373 Juli 13 02.30	2. 12, 10	1.52111110	max. Earth dist.	3374 May 29 11:27	6° I 57'55	1.32486 AU
superior conj	3373 Jun 15 23:14	26° Ⅱ 20'46	0°36'34	asc. node	3374 May 30 07:10	8° ∏ 44'21	1.52 .00 110
minimum elong	3373 Jun 15 21:41	26° I 12'13	0°36'15	ase. Houe	3374 May 30 07.10	0 11-1-21	
minimum crong	3373 Jun 17 15:04	0°9	0 30 13	superior conj	3374 May 31 08:45	11° II 03'07	0°11'12
evening rise	3373 Jun 22 19:12	11°913'58		minimum elong	3374 May 31 08:13	11° I 00'16	
evening rise	3373 Jul 02 08:32	0°Ω		behind sun begin	3374 May 31 04:29	10° Ⅱ 39'57	0 11 00
desc. node	3373 Jul 19 20:06	24°Ω25'10		behind sun end	3374 May 31 01:57	11° II 20'35	
evening max el	3373 Jul 20 08:28	24°Ω55'06	25°38'51	evening rise	3374 Jun 07 06:53	26° I 04'01	
evening man er	3373 Jul 27 01:36	0° mp	20 3001	evening rise	3374 Jun 09 03:49	0°9	
retrograde	3373 Aug 03 08:00	2° mp 02'03			3374 Jun 26 21:48	0°N	
evening set	3373 Aug 09 08:09	0° mp 37'16		evening max el	3374 Jul 01 22:28	5° Ω 34'23	24°09'32
evening sec	3373 Aug 10 14:06	30°R Ω		desc. node	3374 Jul 06 17:05	9° Ω 28'19	2.0332
min. Earth dist.	3373 Aug 13 20:34		0.58280 AU	retrograde	3374 Jul 15 17:46	12° Ω 31'50	
inferior conj	3373 Aug 17 01:06	25° Ω 42'55		evening set	3374 Jul 20 09:01	11° Ω 44'07	
minimum elong	3373 Aug 17 01:00			min. Earth dist.	3374 Jul 26 09:04	8° Ω 46'33	0.56465 AU
morning rise	3373 Aug 25 00:07	21° Ω 22'50	0 0.27	inferior conj	3374 Jul 28 21:51	7°Ω12'10	
direct	3373 Aug 27 12:07	21° Ω 03'07		minimum elong	3374 Jul 28 18:05	7° Ω 18'04	
morning max el	3373 Sep 04 21:28	25° Ω 02'23	18°45'16	morning rise	3374 Aug 06 05:46	3° Ω 12′20	. 5, 5,
asc. node	3373 Sep 08 09:23	28°Ω59'32	10 .0 10	direct	3374 Aug 08 22:49	2°Ω53'03	
use. noue	3373 Sep 09 03:27	0° m		morning max el	3374 Aug 18 16:59	7° Ω 25'07	19°43'54
morning set	3373 Sep 21 06:56	21° Mp 14'09		asc. node	3374 Aug 26 06:24	16°Ω59'26	15 .50.
morning sec	3373 Sep 25 18:35	0ಂ ರ		ase. node	3374 Sep 02 12:47	0°m	
	3373 Sep 20 10.30	· —		morning set	3374 Sep 05 09:39	5° Mp 42'29	
superior conj	3373 Sep 29 21:27	7° £ 54'34	1°34'36	morning sec	557. 5 c p 6c 65.55	J 13 1227	
minimum elong	3373 Sep 30 00:11	8° ♀ 07'31	1°34'25	superior conj	3374 Sep 13 06:51	21° Mp 36'45	1°43'28
max. Earth dist.	3373 Oct 07 00:17	20° £ 56′20	1.39434 AU	minimum elong	3374 Sep 13 07:50	21° mp 41'38	
evening rise	3373 Oct 11 00:04	27° £ 51'13	1.57 .5 . 110	g	3374 Sep 17 14:25	0∘ ಹ	1 .5 20
evening rise	3373 Oct 12 06:37	0°M		max. Earth dist.	3374 Sep 19 04:50		1.37377 AU
desc. node	3373 Oct 15 19:25	5°M49'22		evening rise	3374 Sep 22 23:19	9° £ 54'52	
	3373 Oct 31 22:11	0° ∡ ¹		desc. node	3374 Oct 02 16:27	26° £ 21'07	
evening max el	3373 Nov 15 05:15	17° × 127'44	24°11'27	dese. node	3374 Oct 04 23:58	0°M	
retrograde	3373 Nov 26 08:40	23° х 59'50			3374 Oct 27 14:02	0° ∡ ¹	
evening set	3373 Dec 01 16:21	21° х 46'42		evening max el	3374 Oct 28 17:26	1° × 108'43	25°26'14
asc. node	3373 Dec 05 08:35	17° × ⁷ 43'48		retrograde	3374 Nov 09 19:58	8° ∡ 106'45	20 20 1 .
min. Earth dist.	3373 Dec 05 00:59	16° × 19'46	0.67734 AU	evening set	3374 Nov 15 17:39	5° ∡ 138'55	
inferior conj	3373 Dec 07 03:10	15° ₹ '21'52	0°36'12	min. Earth dist.	3374 Nov 20 03:31	0° ⊀ 46'40	0.67168 AU
minimum elong	3373 Dec 07 03:10	15° × 21'32	0°35'50		3374 Nov 20 18:01	30°RML	
morning rise	3373 Dec 07 02:10	9° × 18'15	0 33 30	inferior conj	3374 Nov 21 07:35	29°M16'11	-0°18'55
direct	3373 Dec 12 12:17 3373 Dec 16 09:29	7° 🖈 52'23		minimum elong	3374 Nov 21 07:33 3374 Nov 21 08:04	29°M14'38	
morning max el	3373 Dec 10 09:29 3373 Dec 24 06:45	12° 🖈 23'22	20°24'33	asc. node	3374 Nov 21 08:04 3374 Nov 22 05:37	28°M05'46	0 10 73
morning max ci	3374 Jan 06 20:16	12 メ ・23 22	20 27 33	morning rise	3374 Nov 26 22:46	23°M20'13	
desc. node	3374 Jan 11 18:38	00 7° る 17'12		direct	3374 Nov 30 08:02	23 IIC20 13 22°ML14'10	
morning set	3374 Jan 21 12:03	7 31712 22° る 06'11		morning max el	3374 Nov 30 08.02 3374 Dec 07 11:10	26°M14'00	19°21'46
morning set	3374 Jan 26 13:20	0°≈		morning max ci	3374 Dec 10 19:07	20 IIC1400 0° √ 7	17 41 40
max. Earth dist.	3374 Jan 31 04:59	0 ≈ 7°≈24'40	1.43475 AU	greatest brilliancy	3374 Dec 20 22:06	0 x . 14° x 17'36	-0.7m
max. Darm tist.	5517 Jan 51 04.59	, ~24 40	1.737/3 AU	desc. node	3374 Dec 20 22:00 3374 Dec 29 15:41	27° 🖈 40'29	0.7111
superior conj	3374 Feb 06 09:46	17° ≈ 32'11	-2°04'46	morning set	3374 Dec 29 13.41 3374 Dec 31 11:20	27 メ ・40 29 0° る 29'26	
superior conj	5577100 00 07.40	17 ~3211	2 07 70	morning set	3377 DCC 31 11.20	0 02920	

	2274 D 21 02 44	007			2275 D 27 00 27	50710112	1000117
E d E	3374 Dec 31 03:44	0°る	1 44601 444	superior conj	3375 Dec 27 08:37	5°₹18'13	
max. Earth dist.	3375 Jan 13 18:58	21° る 17'47	1.44691 AU	minimum elong	3375 Dec 27 00:22	4° ਰ 45'51	1°08'15
				max. Earth dist.	3375 Dec 27 12:51	5° る 34'47	1.45213 AU
superior conj	3375 Jan 17 05:20	26° ප් 44'30		evening rise	3376 Jan 12 04:34	0° ≈ 16'18	
minimum elong	3375 Jan 16 21:09	26° ප 11'53	1°45'36		3376 Jan 12 00:28	0° ≈	
	3375 Jan 19 06:16	0° ≈		greatest brilliancy	3376 Jan 20 23:07	14° ≈ 12'40	-0.8m
evening rise	3375 Jan 31 12:25	20° ≈ 02'19			3376 Jan 31 18:57	0° ∀	
	3375 Feb 06 12:06	0° ∀		evening max el	3376 Feb 03 05:17	2°) 45′14	18°57'51
asc. node	3375 Feb 18 04:54	17°) 32′59		asc. node	3376 Feb 05 01:57	4°) €27'58	
evening max el	3375 Feb 19 19:00	19° 升 17′26	18°24'04	retrograde	3376 Feb 10 01:18	6° 升 36'32	
retrograde	3375 Feb 26 06:42	22°) 49′05		evening set	3376 Feb 13 08:32	5°) 33'31	
evening set	3375 Mar 01 07:34	21°) 58'33		inferior conj	3376 Feb 18 23:17	29° ≈ 48'45	3°28'12
inferior conj	3375 Mar 07 04:55	16° ¥ 30'35	3°38'36	minimum elong	3376 Feb 18 21:38	29°≈53'54	3°28'01
minimum elong	3375 Mar 07 04:33	16° X 30'33	3°38'36	minimum ciong	3376 Feb 18 19:42	30°R≈	3 2001
min. Earth dist.	3375 Mar 07 04.32 3375 Mar 09 11:21	13°) 53'42	0.64179 AU	min. Earth dist.	3376 Feb 18 19.42 3376 Feb 20 14:14	27°≈46'39	0.65729 AU
			0.04179 AU				0.03729 AU
morning rise	3375 Mar 13 00:47	10°) €21'49		morning rise	3376 Feb 24 10:22	23°≈36'20	
direct	3375 Mar 19 20:56	7°) €33'45		direct	3376 Mar 01 22:51	20° ≈ 45'36	
desc. node	3375 Mar 27 14:51	10°) 25′57		desc. node	3376 Mar 13 11:54	27° ≈ 01'20	
morning max el	3375 Apr 02 12:53	15°) 29′07	27°30'28	morning max el	3376 Mar 14 22:47	28° ≈ 26′25	26°38'39
	3375 Apr 14 10:30	0 ° Υ			3376 Mar 16 10:45	0° ℋ	
	3375 May 02 21:06	0°B			3376 Apr 07 05:08	0 ° $\mathbf{\Upsilon}$	
morning set	3375 May 07 14:44	9° 8 02'54		morning set	3376 Apr 19 21:51	22° Ƴ 18'33	
max. Earth dist.	3375 May 12 12:38	19° 8 00'31	1.33292 AU		3376 Apr 23 21:01	8°	
	•			max. Earth dist.	3376 Apr 24 02:59	0° 8 29'33	1.34558 AU
superior conj	3375 May 15 14:27	25° 8 29'30	-0°16'25		•		
minimum elong	3375 May 15 15:17	25° 8 33'55		superior conj	3376 Apr 28 14:10	9° 8 33'29	-0°45'08
asc. node	3375 May 17 04:12	28° 8 51'18	0 10 15	minimum elong	3376 Apr 28 16:32	9° 8 45'43	0°44'41
asc. node	3375 May 17 04:12	0°II		asc. node	3376 May 03 01:16	18° 8 53'00	0 4441
evening rise	3375 May 17 17:01 3375 May 22 18:22	0 H 10°H48'47		evening rise	3376 May 06 03:42	25° 8 22'17	
evening rise	•			evening rise	•		
	3375 Jun 01 16:12	0.22	22022150		3376 May 08 09:50	0°II	21002112
evening max el	3375 Jun 13 12:36	15° © 59'33	22°32'50	evening max el	3376 May 25 10:44		21°03'12
desc. node	3375 Jun 23 14:06	22° © 09'23			3376 May 29 11:44	0ංම	
retrograde	3375 Jun 26 15:33	22° © 30'54		retrograde	3376 Jun 06 04:48	2° 5 28'22	
evening set	3375 Jun 29 19:03	22° © 09'06		evening set	3376 Jun 08 09:30	2° © 17'04	
min. Earth dist.	3375 Jul 07 20:03	18° © 38'45	0.55226 AU	desc. node	3376 Jun 09 11:06	2° 5 03'48	
inferior conj	3375 Jul 09 00:28	17° © 58'20	-4°03'47		3376 Jun 14 16:23	30°RⅡ	
minimum elong	3375 Jul 08 16:21	18° © 09'54	4°01'52	inferior conj	3376 Jun 17 18:06	28° Ⅲ 19′15	-2°23'47
morning rise	3375 Jul 17 15:48	14° © 07'26		minimum elong	3376 Jun 17 11:31	28° Ⅱ 28'32	2°21'32
direct	3375 Jul 20 15:42	13° © 46'54		min. Earth dist.	3376 Jun 18 07:53	27° Ⅱ 59'46	0.54854 AU
morning max el	3375 Aug 01 00:58	19° © 04'26	21°03'24	morning rise	3376 Jun 26 13:32	24° Ⅱ 18'40	
	3375 Aug 09 17:59	0° Ω	21 03 2 .	direct	3376 Jun 30 01:11	23° II 52'26	
asc. node	3375 Aug 13 03:27	5° Ω 40'56		direct	3376 Jul 12 21:42	0°9	
	_	20° Ω 25'27		marning may al	3376 Jul 12 22:11	0° 5 01'09	22020122
morning set	3375 Aug 20 17:19			morning max el			22 39 32
	3375 Aug 25 07:28	0° m		asc. node	3376 Jul 30 00:32	24° © 53'51	
					3376 Aug 01 14:27	0 ° Ω	
superior conj	3375 Aug 28 03:05	5°Mp51'17		morning set	3376 Aug 04 03:58	5° Ω 17'34	
minimum elong	3375 Aug 28 02:31	5° Mp 48′25	1°44'09				
max. Earth dist.	3375 Sep 01 13:57	14° Mp 51'38	1.35541 AU	superior conj	3376 Aug 11 06:46	20° Ω 28′03	1°38'09
evening rise	3375 Sep 05 17:44	22° M 52'59		minimum elong	3376 Aug 11 05:07	20° Ω 19'16	1°38'02
	3375 Sep 09 14:52	0。 ত		max. Earth dist.	3376 Aug 14 07:54	26° Ω 52'38	1.34065 AU
desc. node	3375 Sep 19 13:28	16° ≏ 38'04			3376 Aug 15 20:16	0° m)	
	3375 Sep 28 16:57	0°M		evening rise	3376 Aug 19 02:55	6° Mp 34′04	
evening max el	3375 Oct 11 05:43	14°M48'31	26°28'35		3376 Sep 01 05:34	0∘ ত	
retrograde	3375 Oct 24 02:19	22°M01'40		desc. node	3376 Sep 05 10:29	6° £ 33'39	
evening set	3375 Oct 30 13:18	19°M23'14		evening max el	3376 Sep 22 18:13	28° ♀ 19'40	27°10'55
min. Earth dist.	3375 Nov 03 16:05	15°M06'38	0.66256 AU	evening max er	3376 Sep 24 14:13	0° M	27 1033
inferior conj	3375 Nov 05 10:03	13°ML07'21		retrograde	3376 Oct 06 02:59	5°M27'35	
-				•			
minimum elong	3375 Nov 05 09:40	13°M00'58	1 10 43	evening set	3376 Oct 13 00:57	2°M55'32	
asc. node	3375 Nov 09 02:40	8°M57'25		e per at er	3376 Oct 16 04:23	30°R Ω	0.65000 : **
morning rise	3375 Nov 11 06:39	7°M21'34		min. Earth dist.	3376 Oct 16 21:24	29° ≙ 14'28	0.65003 AU
direct	3375 Nov 14 06:04	6° ™ 31'38		inferior conj	3376 Oct 19 00:56	26° ≙ 51'19	
morning max el	3375 Nov 20 22:10	10°M11'07	18°34'36	minimum elong	3376 Oct 19 04:45	26° ≏ 40'40	2°16'32
	3375 Dec 05 00:59	0° ∡ ¹		morning rise	3376 Oct 25 09:32	21° ≏ 18'44	
morning set	3375 Dec 11 08:57	10° ₹ 03'51		asc. node	3376 Oct 25 23:43	21° ≏ 03'57	
desc. node	3375 Dec 16 12:44	18° ∡ 15′18		direct	3376 Oct 28 01:31	20° ≙ 41′00	
	3375 Dec 23 23:32	ರ°0		morning max el	3376 Nov 03 13:21	24° ≏ 09'18	18°04'02
				-	3376 Nov 08 07:32	0° M ₊	

morning sat	3376 Nov 21 12:06	21° M L06'41		superior conj	3377 Nov 15 19:38	24°M03'31	0°23'46
morning set	3376 Nov 26 21:18	0° %		minimum elong	3377 Nov 15 19:38 3377 Nov 15 22:03	24°M13'33	0°23'24
desc. node	3376 Dec 02 09:47	8° ∡ 757'50		desc. node	3377 Nov 19 22:03 3377 Nov 19 06:49	29°M44'24	0 23 24
desc. Hode	3370 DCC 02 09.47	8 🗴 37 30		desc. node	3377 Nov 19 00:49 3377 Nov 19 10:40	0° × ⁷	
superior conj	3376 Dec 05 15:28	14° ∡ ¹08'34	-0°21'57	max. Earth dist.	3377 Nov 17 10:40 3377 Nov 22 01:38	4° ҂ 13'45	1.44069 AU
minimum elong	3376 Dec 05 13:28 3376 Dec 05 12:43	13° x 757'39		evening rise	3377 Nov 22 01:38 3377 Dec 01 09:13	18° × 1343	1.44009 AU
max. Earth dist.	3376 Dec 09 12:43	19° х 57 59	1.44998 AU	evening rise	3377 Dec 01 09:13	18 × 31 12 0°る	
max. Earth dist.	3376 Dec 09 07:37 3376 Dec 15 17:31	0° ろ	1.44996 AU	evening max el	3377 Dec 30 10:30	0 පි 29° පි 48'15	20°51'57
ovanina rias		9° ろ 43'04		evening max er		29 ○ 48 13	20 3137
evening rise	3376 Dec 21 23:55			. 1	3377 Dec 30 16:55		
1 '11'	3377 Jan 04 06:24	0° ≈	0.7	retrograde	3378 Jan 07 20:44	4°≈44'36	
greatest brilliancy	3377 Jan 04 12:56	0°≈24'18	-0.7m	asc. node	3378 Jan 08 20:02	4°≈39'24	
evening max el	3377 Jan 16 11:28	16°≈16'07	19°47'58	evening set	3378 Jan 11 20:57	3°≈12'56	
asc. node	3377 Jan 21 23:00	20°≈14'53			3378 Jan 14 23:59	30°Rる	
retrograde	3377 Jan 23 22:44	20° ≈ 36′22		inferior conj	3378 Jan 17 05:38	27° る 01'44	
evening set	3377 Jan 27 13:40	19° ≈ 19'38		minimum elong	3378 Jan 17 03:07	27° る 10'24	
inferior conj	3377 Feb 02 00:21	13° ≈ 20′20	3°05'31	min. Earth dist.	3378 Jan 17 17:05	26° る 22'24	0.67584 AU
minimum elong	3377 Feb 01 22:01	13° ≈ 28′08	3°05'01	morning rise	3378 Jan 22 09:06	20° る 48'44	
min. Earth dist.	3377 Feb 03 00:50	11° ≈ 59'03	0.66864 AU	direct	3378 Jan 27 19:06	18° る 25'30	
morning rise	3377 Feb 07 06:07	7° ≈ 06'46		morning max el	3378 Feb 07 16:15	24° る 54'41	23°58'18
direct	3377 Feb 13 06:30	4° ≈ 25'37			3378 Feb 12 06:31	0° ≈	
morning max el	3377 Feb 25 07:44	11° ≈ 36′55	25°24'33	desc. node	3378 Feb 15 06:01	3° ≈ 40'51	
desc. node	3377 Feb 28 08:58	14° ≈ 53'40			3378 Mar 05 12:48	0° ∀	
	3377 Mar 12 01:04	0° ∀		morning set	3378 Mar 15 07:16	16°) 04'42	
	3377 Mar 30 21:35	0° Y		max. Earth dist.	3378 Mar 19 02:11	22°) 42′36	1.38341 AU
morning set	3377 Apr 02 13:16	4° Υ 44'16			3378 Mar 23 02:34	0 ° Υ	
max. Earth dist.	3377 Apr 06 06:00	11° Y 33'53	1.36281 AU				
				superior conj	3378 Mar 26 07:45	6° Ƴ 01'42	-1°38'53
superior conj	3377 Apr 12 05:07	23° Ƴ 07'16	-1°13'24	minimum elong	3378 Mar 26 12:20	6° Y 23'31	1°38'20
minimum elong	3377 Apr 12 08:55	23° Y 26'11	1°12'47	evening rise	3378 Apr 04 06:58	23° Y 28'47	
C	3377 Apr 15 15:11	0°8		asc. node	3378 Apr 06 19:21	28° Ƴ 22'41	
asc. node	3377 Apr 19 22:19	8° 8 44'56			3378 Apr 07 15:39	0°8	
evening rise	3377 Apr 20 08:46	9° 8 37'53		evening max el	3378 Apr 20 17:56		18°55'17
	3377 May 01 10:53	0°II		retrograde	3378 Apr 29 04:23	24° 8 12'36	
evening max el	3377 May 07 20:41	8° Ⅱ 04'17	19°49'25	evening set	3378 May 01 07:50	23° 8 57'42	
retrograde	3377 May 17 20:56	12° I 55'55	19 19 23	inferior conj	3378 May 09 09:13	19° 8 40'44	1°21'38
evening set	3377 May 17 20:30 3377 May 19 20:21	12° II 45'24		minimum elong	3378 May 09 12:10	19° 8 35'29	1°20'40
desc. node	3377 May 17 20:21 3377 May 27 08:09	9° Ⅱ 34'00		min. Earth dist.	3378 May 12 12:57	17° 8 26'55	0.56900 AU
inferior conj	3377 May 27 08:09	8° Ⅱ 44'06	0°24'11	desc. node	3378 May 14 05:10	16° 8 21'35	0.50700 AC
minimum elong	3377 May 28 10:59 3377 May 28 15:53	8° П 45'47		morning rise	3378 May 17 13:20	10 8 21 33	
_	•		0.55457 AU	direct	•		
min. Earth dist.	3377 May 30 21:06 3377 Jun 06 09:14	7 П 24 13 4° П 16'04	0.33437 AU		3378 May 22 20:11 3378 Jun 06 03:45	13° 8 30'34 20° 8 56'02	25057124
morning rise				morning max el		_	23 37 34
direct	3377 Jun 10 16:15	3° II 35'26	2.492212.5		3378 Jun 14 00:04	0° I I	
morning max el	3377 Jun 24 12:56	10° Ⅱ 28'56	24°22′35	,	3378 Jul 01 16:22	0°95	
1	3377 Jul 09 03:57	0°99		asc. node	3378 Jul 03 18:38	4°520'19	
asc. node	3377 Jul 16 21:35	14°529'04		morning set	3378 Jul 04 03:03	5° © 04'42	
morning set	3377 Jul 19 15:45	20°912'16			2250 7 1 11 02 11	200012145	1010110
	3377 Jul 24 04:53	0 \circ Ω		superior conj	3378 Jul 11 02:11	20°512'47	
	2277 1 1 26 17 11	50 0 1 710 7	1927/22	minimum elong	3378 Jul 10 23:51	19°959'55	1°09'50
superior conj	3377 Jul 26 15:11	5° Ω 17'25		max. Earth dist.	3378 Jul 11 19:44	21°549'13	1.32334 AU
minimum elong	3377 Jul 26 12:56	5° Ω 05'14			3378 Jul 15 14:03	0°Ω	
max. Earth dist.	3377 Jul 28 10:41		1.32994 AU	evening rise	3378 Jul 18 02:05	5° Ω 17'15	
evening rise	3377 Aug 02 22:46	20° Ω 45'16			3378 Jul 31 06:56	0°Щ	
	3377 Aug 07 15:45	0° m)		desc. node	3378 Aug 10 04:29	14° m 37'25	
desc. node	3377 Aug 23 07:29	25° m 57'45		evening max el	3378 Aug 18 12:01	24° Mp 01'52	27°10'12
	3377 Aug 26 05:51	0∘ ⊽			3378 Aug 26 21:21	0∘ ಹ	
evening max el	3377 Sep 05 05:13	11° ≏ 28'48	27°26'30	retrograde	3378 Sep 01 08:26	1° ≏ 15'13	
retrograde	3377 Sep 18 21:15	18° ≏ 45'12			3378 Sep 06 14:21	30°R, Mp	
evening set	3377 Sep 26 01:35	16° ഫ 09'10		evening set	3378 Sep 08 11:17	28° m 57'24	
min. Earth dist.	3377 Sep 29 17:13	13° ≙ 00'44	0.63405 AU	min. Earth dist.	3378 Sep 12 02:19	26° Mp 13'12	0.61509 AU
inferior conj	3377 Oct 02 09:01	10° ≏ 21'12		inferior conj	3378 Sep 15 04:38	23° m 28'55	-4°11'17
minimum elong	3377 Oct 02 14:17	10° ≏ 07'59	3°15'43	minimum elong	3378 Sep 15 10:22	23°M/16'11	4°09'56
morning rise	3377 Oct 09 04:19	5° ≏ 05'20		morning rise	3378 Sep 22 11:10	18° m 33'22	
direct	3377 Oct 11 15:28	4° £ 36′10		direct	3378 Sep 24 20:16	18° m 09'47	
asc. node	3377 Oct 12 20:47	4° £ 43′30		asc. node	3378 Sep 29 17:50	19° m 53'45	
morning max el	3377 Oct 18 05:51	8° ≏ 01'38	17°51'00	morning max el	3378 Oct 01 20:37	21° m 40'42	17°56'25
	3377 Nov 01 18:04	0°M₊			3378 Oct 08 05:17	0∘ ⊽	
morning set	3377 Nov 03 16:47	3°M23'32		morning set	3378 Oct 17 16:31	16° ≏ 34'34	

	3378 Oct 25 02:28	0° M .		superior conj	3379 Oct 10 09:42	17° ≏ 42'08	1°25'10
	3378 Oct 23 02.28	U IIG		minimum elong	3379 Oct 10 09:42 3379 Oct 10 13:20	17 = 42 08 17° £ 58'49	1°24'48
superior conj	3378 Oct 28 02:44	5° M .17'47	1°00'10	minimum clong	3379 Oct 10 13:20 3379 Oct 17 07:21	0°M	1 24 40
minimum elong	3378 Oct 28 07:00	5°M36'21	0°59'38	max. Earth dist.	3379 Oct 17 07:21 3379 Oct 17 22:24	1° M .04'44	1.40616 AU
max. Earth dist.	3378 Nov 04 14:51	18°M00'10	1.42544 AU	evening rise	3379 Oct 22 11:32	8°M43'42	1.10010110
desc. node	3378 Nov 06 03:49	20°M31'38	1.12011110	desc. node	3379 Oct 24 00:50	11°ML16'21	
evening rise	3378 Nov 11 00:42	28°M20'18			3379 Nov 05 03:14	0° ∡ ¹	
<i>y</i>	3378 Nov 12 02:03	0° ∡ 7		evening max el	3379 Nov 25 22:30	26° ₹ 57'01	23°25'42
	3378 Dec 02 10:15	0°⋜		Ü	3379 Nov 29 07:27	8°0	
evening max el	3378 Dec 13 07:32	13° る 21'03	22°06'10	retrograde	3379 Dec 06 11:20	3°₹11'02	
retrograde	3378 Dec 22 17:24	18° ප 57'08		evening set	3379 Dec 11 11:05	1° る 07'13	
asc. node	3378 Dec 26 17:04	17° ට 31'48			3379 Dec 12 15:43	30°₽ ⋌ 7	
evening set	3378 Dec 27 04:37	17° る 09'34		asc. node	3379 Dec 13 14:05	28° ₹ '58'36	
inferior conj	3379 Jan 01 13:00	10° る 49'49	1°52'48	inferior conj	3379 Dec 16 20:38	24° ∡ ¹42'50	1°05'51
minimum elong	3379 Jan 01 10:47	10°る57'30	1°52'00	minimum elong	3379 Dec 16 19:09	24° ∡ ¹47'53	1°05'15
min. Earth dist.	3379 Jan 01 12:46	10° ප් 50'36	0.67921 AU	min. Earth dist.	3379 Dec 16 09:34	25° ∡ ¹20'47	0.67899 AU
morning rise	3379 Jan 06 16:49	4° る 38'51		morning rise	3379 Dec 22 03:11	18° ∡ ³35'44	
direct	3379 Jan 11 11:49	2° る 37'41		direct	3379 Dec 26 07:54	16° ₹ 57'23	
morning max el	3379 Jan 21 02:51	8° ⋜ 18'31	22°29'38	morning max el	3380 Jan 03 18:59	21° ₹ 51'54	21°06'57
desc. node	3379 Feb 02 03:02	23° る 06'45			3380 Jan 10 16:29	0°₹	
	3379 Feb 06 23:45	0° ≈		desc. node	3380 Jan 20 00:05	13° る 01'02	
morning set	3379 Feb 23 21:50	26° ≈ 04'27			3380 Jan 31 06:47	0° ≈	
	3379 Feb 26 06:59	0° ∀		morning set	3380 Feb 03 08:21	4° ≈ 46'34	
max. Earth dist.	3379 Feb 28 22:28	4°) €26'33	1.40511 AU	max. Earth dist.	3380 Feb 11 00:37	17° ≈ 03'58	1.42512 AU
superior conj	3379 Mar 08 17:26	18°) €04'21		superior conj	3380 Feb 18 05:12	29°≈04'28	
minimum elong	3379 Mar 08 21:16	18°) €21'35	1°57'59	minimum elong	3380 Feb 18 05:35	29°≈06′10	2°06'48
	3379 Mar 15 04:52	0° Υ			3380 Feb 18 18:11	0°) (20100	
evening rise	3379 Mar 18 19:02	6°Υ45'36		evening rise	3380 Feb 29 17:08	19°) €20'00	
asc. node	3379 Mar 24 16:22	17° Ƴ 39'53		1	3380 Mar 06 16:36	0° Υ 6° Υ 29'57	
	3379 Apr 01 13:57	0°8 2°840'23	10021120	asc. node	3380 Mar 10 13:23	15° Υ 39'59	10007120
evening max el	3379 Apr 03 23:33	6° 8 17'54	18°21'28	evening max el	3380 Mar 17 10:18 3380 Mar 24 01:55	13° γ 39'39 19° γ 03'57	18-07-29
retrograde	3379 Apr 11 06:50	5° 8 55'16		retrograde	3380 Mar 26 17:51	19 γ 03 37 18° γ 31'21	
evening set inferior conj	3379 Apr 13 16:38 3379 Apr 20 22:53		2°36'31	evening set inferior conj	3380 Mai 26 17.31 3380 Apr 02 08:18	13° Y $33'$ 57	2910147
minimum elong	3379 Apr 21 02:36	1° 8 10'37		minimum elong	3380 Apr 02 10:43	13 γ 33 37 13° Υ 28'07	3°19'26
minimum ciong	3379 Apr 21 02:30 3379 Apr 22 12:14	30°RΥ	2 33 30	min. Earth dist.	3380 Apr 05 12:52	13 γ 28 07 10° Υ 30'48	0.61060 AU
min. Earth dist.	3379 Apr 24 09:28	28° Y 27'35	0.58883 AU	morning rise	3380 Apr 09 01:39	7° Υ 40'25	0.01000 AC
morning rise	3379 Apr 24 09:28 3379 Apr 28 09:41	25° Υ 44'34	0.30003 AC	direct	3380 Apr 05 01:35 3380 Apr 15 19:36	5° Υ 24'14	
desc. node	3379 May 01 02:12	24° Y 35'25		desc. node	3380 Apr 16 23:14	5°Υ28'00	
direct	3379 May 04 14:02	24° Υ 02'44		morning max el	3380 Apr 30 01:14	13° Υ 20'08	27°46'32
	3379 May 17 00:49	0°8			3380 May 13 08:27	0°8	_,
morning max el	3379 May 18 23:23	1° 8 48'20	27°09'06		3380 May 30 14:16	0°II	
S	3379 Jun 08 05:56	0°II		morning set	3380 Jun 01 17:24	4° Ⅱ 19'25	
morning set	3379 Jun 18 12:13	19° Ⅱ 49'06		asc. node	3380 Jun 06 12:40	14° Ⅱ 29'06	
asc. node	3379 Jun 20 15:40	24° Ⅱ 21'53		max. Earth dist.	3380 Jun 07 18:07	17° Ⅲ 09'01	1.32212 AU
	3379 Jun 23 05:59	0ಂತ					
				superior conj	3380 Jun 09 00:51	19° Ⅱ 57′01	0°26'07
superior conj	3379 Jun 25 13:59	5° © 07'56	0°49'51	minimum elong	3380 Jun 08 23:41	19° Ⅱ 50'39	0°25'53
minimum elong	3379 Jun 25 12:01	4°957'06	0°49'29		3380 Jun 13 14:59	0 \circ \odot	
max. Earth dist.	3379 Jun 25 07:27	4°931'57	1.32071 AU	evening rise	3380 Jun 15 21:17	4° 9 51'57	
evening rise	3379 Jul 02 10:18	20° © 01'47			3380 Jun 29 04:50	$0^{\circ}\Omega$	
	3379 Jul 07 07:34	$0 {\circ} \Omega$		evening max el	3380 Jul 12 05:23	16° Ω 50'05	25°02'55
	3379 Jul 26 03:16	O° m		desc. node	3380 Jul 13 22:29	18° Ω 23'29	
desc. node	3379 Jul 28 01:29	2°Mp 14'32		retrograde	3380 Jul 26 04:38	23° Ω 54'49	
evening max el	3379 Jul 31 12:15	5° ™ 49'05	26°20'47	evening set	3380 Jul 31 15:41	22° Ω 46'38	
retrograde	3379 Aug 14 11:41	12° m 59'40		min. Earth dist.	3380 Aug 05 17:01	20° Ω 01'42	
evening set	3379 Aug 21 01:22	11° m 12'51	0.50442 : **	inferior conj	3380 Aug 08 16:48	18° Ω 01'29	
min. Earth dist.	3379 Aug 25 01:22	8° Mp 37'38	0.59442 AU	minimum elong	3380 Aug 08 16:28	18° Ω 02'03	5°06'59
inferior conj	3379 Aug 28 08:17	6° Mp 05'30		morning rise	3380 Aug 16 19:45	13° Ω 50'40	
minimum elong	3379 Aug 28 12:26	5° Mp 57'28	4°51'21	direct	3380 Aug 19 09:24	13° Ω 31′26	10007127
morning rise	3379 Sep 05 01:40	1° Mp 32'39		morning max el	3380 Aug 28 08:02	17° Ω 43'38	19°07'36
direct	3379 Sep 07 11:37	1°Mp12'12	18021121	asc. node	3380 Sep 02 11:55	23° Ω 52'47	
morning max el asc. node	3379 Sep 15 06:28 3379 Sep 16 14:52	4° Mp 58'10 6° Mp 22'05	18°21'31	morning set	3380 Sep 06 09:06 3380 Sep 14 04:35	0° т р 14° т р41'13	
morning set	3379 Sep 16 14:52 3379 Oct 01 05:50	0° £ 24'29		morning set	3380 Sep 14 04:33 3380 Sep 21 22:33	0° ⊡	
morning set	3379 Oct 01 03:30 3379 Oct 01 00:43	0° ⊡ 0° ⊡			3300 Dep 21 22.33	0 ==	
	55,7 500 01 00.75	· –					

superior conj	3380 Sep 22 10:55	0° ჲ 59'53	1°39'28	morning max el	3381 Aug 10 22:40	29° 5 48'28	20°15'14
minimum elong	3380 Sep 22 10:55	1° ⊆ 09'32	1°39'21	morning max cr	3381 Aug 11 03:35	0°Ω	20 13 14
max. Earth dist.	3380 Sep 29 02:33	13° Ω 26'56	1.38540 AU	asc. node	3381 Aug 20 08:58	12° Ω 12'11	
evening rise	3380 Oct 02 21:58	20° £ 12'02	1.505 10 110	morning set	3381 Aug 29 09:43	29° Ω 16'55	
	3380 Oct 08 17:42	0°M			3381 Aug 29 18:10	0° m)	
desc. node	3380 Oct 09 21:51	1°M54'06					
	3380 Oct 29 05:50	0° ⊼ ¹		superior conj	3381 Sep 06 01:25	14° m 57'10	1°44'40
evening max el	3380 Nov 07 11:15	10° ∡ ³36'53	24°44'21	minimum elong	3381 Sep 06 01:42	14° m 58'37	1°44'40
retrograde	3380 Nov 19 01:17	17° ∡ ¹21'32		max. Earth dist.	3381 Sep 11 08:37	25° m 23'29	1.36564 AU
evening set	3380 Nov 24 14:45	15° ∡ 02'07			3381 Sep 13 19:10	0∘ <u>⊽</u>	
min. Earth dist.	3380 Nov 29 05:03	9° √ 49'29	0.67533 AU	evening rise	3381 Sep 15 05:58	2° ≏ 40'33	
asc. node	3380 Nov 29 11:07	9° ∡ ¹29'26		desc. node	3381 Sep 26 18:51	22° ≏ 20'21	
inferior conj	3380 Nov 30 02:45	8° ҂ ³37'32	0°13'23		3381 Oct 01 18:35	0°M	
minimum elong	3380 Nov 30 02:25	8° ≯ ³38'38	0°13'14	evening max el	3381 Oct 20 23:37	24°M18'48	25°54'47
transit middle	3380 Nov 30 02:25	8° ≯ ³38'38	0°13'14	C	3381 Oct 28 09:05	0° ∡ ¹	
transit begin	3380 Nov 30 00:49	8° ∡ ¹43'55		retrograde	3381 Nov 02 10:23	1° х 23′50	
transit end	3380 Nov 30 04:00	8° ₹ 33'21			3381 Nov 07 00:24	30°RM₊	
morning rise	3380 Dec 05 14:11	2° ∡ ³36'34		evening set	3381 Nov 08 13:53	28°M51'08	
direct	3380 Dec 09 06:04	1° ∡ 19'26		min. Earth dist.	3381 Nov 12 20:47	24°M13'50	0.66826 AU
morning max el	3380 Dec 16 18:47	5° ∡ ¹36′05	19°55'58	inferior conj	3381 Nov 14 05:32	22°M30'56	-0°43'27
	3381 Jan 03 17:29	0°ප		minimum elong	3381 Nov 14 06:41	22°M27'20	0°42'57
desc. node	3381 Jan 05 21:08	3° ⋜ 15′28		asc. node	3381 Nov 16 08:11	19°M57'03	
morning set	3381 Jan 12 04:24	12° る 54'50		morning rise	3381 Nov 19 23:51	16°M38'48	
	3381 Jan 23 02:14	0° ≈		direct	3381 Nov 23 04:45	15°M39'53	
max. Earth dist.	3381 Jan 23 10:39	0° ≈ 33'30	1.44075 AU	morning max el	3381 Nov 30 02:09	19°M29'33	18°59'42
					3381 Dec 08 07:38	0° ∡ ¹	
superior conj	3381 Jan 28 15:14	8° ≈ 54'59	-1°59'21	morning set	3381 Dec 22 11:14	21° ҂ ¹43'22	
minimum elong	3381 Jan 28 09:52	8° ≈ 33'11	1°59'05	desc. node	3381 Dec 23 18:10	23° х 44'12	
	3381 Feb 10 06:03	0° ∀			3381 Dec 27 18:18	0°ರ	
evening rise	3381 Feb 10 20:55	1°) €03'36		max. Earth dist.	3382 Jan 06 03:02	14° る 40'29	1.45008 AU
asc. node	3381 Feb 25 10:24	24°) 44'32					
evening max el	3381 Feb 28 23:02	28° ℋ 56'09	18°12'42	superior conj	3382 Jan 08 01:59	17° る 45'25	-1°32'31
	3381 Mar 02 02:33	$0^{\circ}\mathbf{\Upsilon}$		minimum elong	3382 Jan 07 16:52	17° る 09'27	1°31'37
retrograde	3381 Mar 07 09:24	2° Y 21'00			3382 Jan 15 18:49	0° ≈	
evening set	3381 Mar 10 07:03	1° Y 37'10		evening rise	3382 Jan 23 02:34	11° ≈ 50'31	
	3381 Mar 12 16:52	30° ₹ ₩			3382 Feb 03 08:01	0° ℋ	
inferior conj	3381 Mar 16 09:36	26° 升 19′59	3°37'27	asc. node	3382 Feb 12 07:27	12° 升 12′28	
minimum elong	3381 Mar 16 10:11	26° 升 18′22	3°37'27	evening max el	3382 Feb 12 10:54	12°) 21′17	18°36'19
min. Earth dist.	3381 Mar 19 00:56	23°) €28'22	0.63128 AU	retrograde	3382 Feb 19 01:02	15°) 59'43	
morning rise	3381 Mar 22 12:17	20° 升 15′22		evening set	3382 Feb 22 04:36	15°) €03'48	
direct	3381 Mar 29 10:13	17°)(34'59		inferior conj	3382 Feb 27 22:46	9°) 28′20	3°35'54
desc. node	3381 Apr 03 20:17	18° 升 59'42		minimum elong	3382 Feb 27 21:47	9° ∺ 31'16	3°35'50
morning max el	3381 Apr 12 08:09	25°) 32′32	27°46'31	min. Earth dist.	3382 Mar 01 22:29	7°) €05'26	0.64892 AU
	3381 Apr 16 10:38	$0^{\circ}\mathbf{\Upsilon}$		morning rise	3382 Mar 05 14:29	3°) 17′53	
	3381 May 06 20:06	0°8		direct	3382 Mar 12 08:05	0°) €27'16	
morning set	3381 May 16 16:27	18° 8 28'33		desc. node	3382 Mar 21 17:21	4°) 38′13	
max. Earth dist.	3381 May 21 23:53	29° 8 28'01	1.32773 AU	morning max el	3382 Mar 25 17:46	8° ℋ 17'09	27°11'47
	3381 May 22 05:54	$\Pi^{\circ}0$			3382 Apr 11 14:48	$0^{\circ}\mathbf{\Upsilon}$	
					3382 Apr 29 04:06	9° 8	
superior conj	3381 May 24 09:03	4° Ⅱ 34'17	-0°00'18	morning set	3382 Apr 30 06:24	2° 8 06'42	
minimum elong	3381 May 24 09:04	4° Ⅱ 34'22	0°00'18	max. Earth dist.	3382 May 04 21:00	11° 8 17'49	1.33781 AU
behind sun begin	3381 May 24 03:49	4° Ⅱ 06'03					
behind sun end	3381 May 24 14:19	5° Ⅱ 02'42		superior conj	3382 May 08 12:30	18° 8 52'16	-0°28'31
asc. node	3381 May 24 09:43	4° Ⅱ 37'53		minimum elong	3382 May 08 13:59	19° 8 00'01	0°28'14
evening rise	3381 May 31 09:10	19° Ⅱ 41'21		asc. node	3382 May 11 06:45	24° 8 43'19	
	3381 Jun 05 10:05	0 \circ \odot			3382 May 13 18:15	$\Pi^{\circ}0$	
evening max el	3381 Jun 23 18:44	27° 5 20'47	23°28'29	evening rise	3382 May 15 20:00	4° Ⅱ 22'37	
	3381 Jun 26 19:56	$0^{\circ}\Omega$			3382 May 29 22:58	0ංම	
desc. node	3381 Jun 30 19:30	2° Ω 31′20		evening max el	3382 Jun 05 11:25	7° 9 50'10	21°53'05
retrograde	3381 Jul 07 08:55	4° Ω 08'57		desc. node	3382 Jun 17 16:33	14°503'12	
evening set	3381 Jul 11 08:20	3° £ 34′22		retrograde	3382 Jun 18 01:46	14°503'32	
min. Earth dist.	3381 Jul 18 04:41	0° Ω 24'26	0.55848 AU	evening set	3382 Jun 20 17:40	13°5647'39	
	3381 Jul 18 21:16	30° ₹ 5		min. Earth dist.	3382 Jun 29 15:26	9° © 59'32	0.54957 AU
inferior conj	3381 Jul 20 05:19	29° © 12'16	-4°41'19	inferior conj	3382 Jun 30 02:28	9°5544'06	-3°25'54
minimum elong	3381 Jul 19 23:12	29° © 21'23		minimum elong	3382 Jun 29 18:13	9° © 55'39	3°23'30
morning rise	3381 Jul 28 16:31	25° © 17'45		morning rise	3382 Jul 08 20:14	5° © 51'58	
direct	3381 Jul 31 12:20	24°958'05		direct	3382 Jul 12 00:34	5° 5 29'41	

morning max el	3382 Jul 24 01:39	11° © 08'13	21°42'44	morning max el	3383 Jul 05 19:32	21° II 50'22	23°23'23
morning max ci	3382 Aug 06 15:08	0°Ω	21 72 77	morning max ci	3383 Jul 12 21:51	0°95	23 23 23
asc. node	3382 Aug 07 06:02	1° Ω 08'05		asc. node	3383 Jul 25 03:04	20° © 31'14	
morning set	3382 Aug 13 18:54	14° £ 00'32		morning set	3383 Jul 29 06:11	28°\$58'20	
morning sec	550 2 11 ug 15 10.5 .	1.000.02		morning sec	3383 Jul 29 17:52	0°N	
superior conj	3382 Aug 21 01:10	29° Ω 22'05	1°42'21				
minimum elong	3382 Aug 21 00:05	29° Ω 16′26	1°42'19	superior conj	3383 Aug 05 07:08	14° Ω 05'10	1°33'51
Č	3382 Aug 21 08:26	0° m)		minimum elong	3383 Aug 05 05:10	13° Ω 54'37	1°33'40
max. Earth dist.	3382 Aug 24 21:30	7° m) 17'21	1.34866 AU	max. Earth dist.	3383 Aug 07 19:14	19° Ω 25'27	1.33555 AU
evening rise	3382 Aug 29 07:09	15° m 57'58		evening rise	3383 Aug 12 21:15	29° Ω 52'44	
C	3382 Sep 06 00:12	0∘ ⊽		C	3383 Aug 12 22:43	O° Mp	
desc. node	3382 Sep 13 15:53	12° £ 29'16			3383 Aug 30 01:21	0∘ ⊽	
	3382 Sep 26 06:50	0°M₊		desc. node	3383 Aug 31 12:54	2° £ 12'51	
evening max el	3382 Oct 03 12:06	7° M 56'11	26°49'28	evening max el	3383 Sep 15 23:55	21° ≏ 18'29	27°21'09
retrograde	3382 Oct 16 14:12	15°ML11'50		retrograde	3383 Sep 29 12:17	28° ≙ 36'57	
evening set	3382 Oct 23 06:26	12°M30'44		evening set	3383 Oct 06 13:48	25° ≙ 55'42	
min. Earth dist.	3382 Oct 27 06:24	8°M29'39	0.65768 AU	min. Earth dist.	3383 Oct 10 07:45	22° ഫ 29'28	0.64358 AU
inferior conj	3382 Oct 29 02:59	6°M19'31	-1°43'09	inferior conj	3383 Oct 12 16:42	19° ≙ 57'53	-2°43'36
minimum elong	3382 Oct 29 05:49	6°M11'12	1°41'58	minimum elong	3383 Oct 12 21:12	19° ≏ 45'52	2°41'58
asc. node	3382 Nov 03 05:15	1°M16'28		morning rise	3383 Oct 19 05:47	14° ≏ 32'21	
morning rise	3382 Nov 04 05:57	0°M39'10		asc. node	3383 Oct 21 02:19	14° ≏ 01'22	
	3382 Nov 06 02:45	30° ₹ Ω		direct	3383 Oct 21 19:18	13° ≏ 58'47	
direct	3382 Nov 07 01:59	29° £ 54'49		morning max el	3383 Oct 28 07:27	17° ≏ 24'53	17°56'23
	3382 Nov 08 01:21	0° M.			3383 Nov 06 10:18	0° M	
morning max el	3382 Nov 13 15:18	3°M28'06	18°19'35	morning set	3383 Nov 14 12:09	13°M32'28	
	3382 Dec 01 16:43	0° ∡ ¹			3383 Nov 24 08:35	0°⊀	
morning set	3382 Dec 02 21:28	1° ∡ 756′20					
desc. node	3382 Dec 10 15:11	14° ∡ ¹22'55		superior conj	3383 Nov 27 18:25	5° ∡ ³32'38	-0°01'48
				minimum elong	3383 Nov 27 18:12	5° ∡ ³31'47	0°01'45
superior conj	3382 Dec 18 04:02	26° ∡ 18'44	-0°49'43	behind sun begin	3383 Nov 27 08:01	4° ₰ 50'35	
minimum elong	3382 Dec 17 21:46	25° ₹ ′54'03	0°48'54	behind sun end	3383 Nov 28 04:24	6° ∡ 12'55	
max. Earth dist.	3382 Dec 19 22:21	29° х 04′58	1.45209 AU	desc. node	3383 Nov 27 12:11	5° ₹ 07'29	
	3382 Dec 20 12:22	0°ರ		max. Earth dist.	3383 Dec 02 16:53	13° ∡ 26′08	1.44675 AU
evening rise	3383 Jan 03 09:12	21° る 43'00			3383 Dec 13 07:39	0°ප	
	3383 Jan 08 16:05	0° ≈		evening rise	3383 Dec 13 22:22	0° る 56'43	
greatest brilliancy	3383 Jan 14 08:47	8° ≈ 50'50	-0.8m	greatest brilliancy	3383 Dec 28 10:11	22° る 51'15	-0.6m
evening max el	3383 Jan 26 19:37	25° ≈ 50'57	19°17'13		3384 Jan 02 10:03	0° ≈	
asc. node	3383 Jan 30 04:31	28° ≈ 40'54		evening max el	3384 Jan 09 23:29	9° ≈ 21'48	20°13'39
retrograde	3383 Feb 02 21:18	29° ≈ 53'43		asc. node	3384 Jan 17 01:34	13° ≈ 54'18	
evening set	3383 Feb 06 07:39	28° ≈ 44'54		retrograde	3384 Jan 17 19:19	13° ≈ 57'18	
inferior conj	3383 Feb 11 20:21	22° ≈ 53'22		evening set	3384 Jan 21 13:54	12° ≈ 34'29	
minimum elong	3383 Feb 11 18:21	22° ≈ 59'51	3°19'37	inferior conj	3384 Jan 26 23:29		2°52'52
min. Earth dist.	3383 Feb 13 04:53	21°≈08'31	0.66259 AU	minimum elong	3384 Jan 26 21:00	6°≈38'00	2°52'15
morning rise	3383 Feb 17 04:47	16°≈40'09		min. Earth dist.	3384 Jan 27 18:15	5°≈26'09	0.67213 AU
direct	3383 Feb 23 12:23	13°≈52'34	26000122	morning rise	3384 Feb 01 03:54	0°≈15'49	
morning max el	3383 Mar 08 03:39	21°≈22'39	26°09'23	1:4	3384 Feb 01 11:03	30°Rる 27°る41'29	
desc. node	3383 Mar 08 14:24	21°≈50'02 0° 米		direct	3384 Feb 06 22:14	2/° 6 41′29 0° ≈	
	3383 Mar 15 15:41	0 Υ 0° Υ		morning max el	3384 Feb 13 03:23 3384 Feb 18 12:20	0 ≈ 4°≈37'03	24040145
morning set	3383 Apr 04 19:34 3383 Apr 13 07:29	15° Υ 03'19		desc. node	3384 Feb 23 11:25	4 ≈3703 10°≈07'50	24 46 43
max. Earth dist.	3383 Apr 17 06:44	22° Υ 36'18	1.35247 AU	desc. Hode	3384 Mar 09 00:45	10 ≈ 07 30	
max. Earth dist.	3383 Apr 21 00:22	0° 8	1.33247 AU	morning set	3384 Mar 25 14:35	27°) €03'41	
	3363 Apr 21 00.22	00		morning set	3384 Mar 27 06:03	27 χ 0541 0° Υ	
superior conj	3383 Apr 22 08:51	2° 8 44'32	0°57'17	max. Earth dist.	3384 Mar 29 05:48	3° Υ 37'11	1.37123 AU
minimum elong	3383 Apr 22 11:52	2° 8 59'53		max. Earth dist.	3364 Wai 29 03.46	3 3/11	1.3/123 AO
asc. node	3383 Apr 28 03:48	14° 8 41'38	0 20 44	superior conj	3384 Apr 04 19:01	16° Ƴ 02'41	-1°24'44
evening rise	3383 Apr 30 03:49	18° 8 49'46		minimum elong	3384 Apr 04 23:16	16° Υ 23'30	
evening fise	3383 May 05 18:55	0° Ⅱ		mmmum ciong	3384 Apr 11 19:14	0° 8	1 4 7 00
evening max el	3383 May 18 14:13	0 Ⅱ 18° Ⅱ 47'54	20°29'23	evening rise	3384 Apr 13 06:17	2° 8 55'45	
retrograde	3383 May 29 14:59	18 П 4/34 24° П 10'36	20 27 23	asc. node	3384 Apr 14 00:51	4° 8 28'20	
evening set	3383 May 31 15:32	24° I I 0 36 24° I I 00'30		asc. Houc	3384 Apr 29 18:25	4 O 28 20 0° Ⅱ	
desc. node	3383 Jun 04 13:35	22° I I49'19		evening max el	3384 Apr 30 05:14		19°23'55
inferior conj	3383 Jun 09 20:29	22 H 49 19 20° H 02'40	-1°33'16	retrograde	3384 May 09 12:38	0 П 20 33 4° П 57'57	1/ 43 33
minimum elong	3383 Jun 09 20.29 3383 Jun 09 16:05	20° I 102'40 20° I 109'03	1°31'39	evening set	3384 May 11 12:55	4° П 46'13	
min. Earth dist.	3383 Jun 11 03:39	20 ∏ 0903 19° ∏ 17'30	0.54997 AU	inferior conj	3384 May 20 01:48	0° П 39'32	0°23'51
morning rise	3383 Jun 18 15:43	19 Ⅱ 1730 15° Ⅱ 52'14	0.57777 AU	minimum elong	3384 May 20 02:48	0° П 3932	0°23'29
direct	3383 Jun 22 10:23	15 II 32 14 15° II 21'27		desc. node	3384 May 21 10:35	29° Ы 3733	0 43 47
direct	5505 Jun 22 10.23	1.J 11.41.41		desc. Hode	330 T 141ay 21 10.33	27 0 1 333	

	3384 May 21 01:57	30° ₹ 8		min. Earth dist.	3385 May 04 11:47	9° 8 20'55	0.57699 AU
min. Earth dist.	3384 May 22 18:12	28° 8 55'00	0.55981 AU	desc. node	3385 May 08 07:38	6° 8 56'14	
morning rise	3384 May 28 13:46	25° 8 56'06		morning rise	3385 May 09 00:07	6° 8 36'00	
direct	3384 Jun 02 06:39	25° 8 05'42		direct	3385 May 14 17:06	5° 8 14'38	
	3384 Jun 13 20:22	Π °0		morning max el	3385 May 29 01:54	12° 8 50'00	26°31'34
morning max el	3384 Jun 16 09:40	2° Ⅱ 15′23	25°04'52		3385 Jun 11 13:36	Π °0	
	3384 Jul 05 19:29	0 \circ \odot		morning set	3385 Jun 27 04:33	28° Ⅱ 43′04	
asc. node	3384 Jul 11 00:06	10° © 14'21		asc. node	3385 Jun 27 21:07	0°910'42	
morning set	3384 Jul 12 17:58	13° © 53'16			3385 Jun 27 19:06	0ංම	
superior conj	3384 Jul 19 16:55	28° © 58'46	1°20'09	superior conj	3385 Jul 04 04:28	13° © 55'06	1°02'03
minimum elong	3384 Jul 19 14:34	28°5945'58	1°19'50	minimum elong	3385 Jul 04 02:14	13°9642'47	1°01'39
	3384 Jul 20 04:08	$0^{\circ}\Omega$		max. Earth dist.	3385 Jul 04 11:30	14°533'49	1.32176 AU
max. Earth dist.	3384 Jul 21 00:52	1° Ω 53'01	1.32660 AU	evening rise	3385 Jul 11 02:21	28°953'27	
evening rise	3384 Jul 26 20:39	14° Ω 14'38		S	3385 Jul 11 15:06	$0^{\circ}\Omega$	
· ·	3384 Aug 04 00:18	0° m			3385 Jul 28 06:39	0° m)	
desc. node	3384 Aug 17 09:54	21°m/20'34		desc. node	3385 Aug 04 06:55	9° m/36'35	
	3384 Aug 24 07:28	0∘ ⊽		evening max el	3385 Aug 10 13:55	16° m 29'47	26°53'11
evening max el	3384 Aug 28 09:24	4° Ω 14'16	27°23'41	retrograde	3385 Aug 24 11:55	23° m/41'25	
retrograde	3384 Sep 11 03:59	11° ≏ 30'12		evening set	3385 Aug 31 10:35	21° m/35'46	
evening set	3384 Sep 18 08:40	9° ഫ 00'20		min. Earth dist.	3385 Sep 04 04:05	18° m 57'13	0.60642 AU
min. Earth dist.	3384 Sep 21 23:13	6° ഫ 03'28	0.62623 AU	inferior conj	3385 Sep 07 09:11	16° Mp 16'06	-4°30'46
inferior conj	3384 Sep 24 19:54	3° ჲ 19'58	-3°41'22	minimum elong	3385 Sep 07 14:34	16° Mp 04'48	4°29'44
minimum elong	3384 Sep 25 01:32	ვ° ჲ 06'29	3°39'44	morning rise	3385 Sep 14 20:24	11° m)29'36	
	3384 Sep 28 15:23	30°R, Mp		direct	3385 Sep 17 05:28	11° m 07'36	
morning rise	3384 Oct 01 19:59	28° m 12'23		asc. node	3385 Sep 23 20:21	14° m) 06'05	
direct	3384 Oct 04 05:45	27° m 46'04		morning max el	3385 Sep 24 12:38	14° m) 43'57	18°04'32
asc. node	3384 Oct 06 23:20	28° m) 20'57		C	3385 Oct 05 00:28	0∘ ত	
	3384 Oct 09 15:07	0∘ ⊽		morning set	3385 Oct 10 07:50	9° ≙ 44'17	
morning max el	3384 Oct 10 23:38	1° Ω 13'11	17°50'57				
morning set	3384 Oct 27 01:43	26° ≙ 14'48		superior conj	3385 Oct 20 03:55	27° ≏ 47'12	1°12'10
	3384 Oct 29 04:24	0° M		minimum elong	3385 Oct 20 08:07	28° ≏ 05'56	1°11'40
					3385 Oct 21 09:53	0° M	
superior conj	3384 Nov 07 10:04	16°M01'40	0°40'33	max. Earth dist.	3385 Oct 27 19:15	10°M58'55	1.41766 AU
minimum elong	3384 Nov 07 13:40	16°M16'54	0°40'03	desc. node	3385 Oct 31 06:14	16°ML41'38	
desc. node	3384 Nov 13 09:13	25° ™ 54'59		evening rise	3385 Nov 02 06:56	19° M 58'32	
max. Earth dist.	3384 Nov 14 08:20	27° M 28'48	1.43482 AU		3385 Nov 08 16:16	0° ∡ ¹	
	3384 Nov 15 21:53	0° ∡ ¹			3385 Nov 29 22:14	ರ∘ರ	
evening rise	3384 Nov 22 08:15	10° ₹ 08'41		evening max el	3385 Dec 05 15:14	6° ප 28'36	22°39'47
	3384 Dec 05 12:18	8°0		retrograde	3385 Dec 15 12:25	12° る 20'45	
evening max el	3384 Dec 22 21:52	22° る 54'03	21°22'35	evening set	3385 Dec 20 04:50	10° る 26'20	
retrograde	3384 Dec 31 16:54	28° る 07'15		asc. node	3385 Dec 20 19:36	9° る 53'49	
asc. node	3385 Jan 02 22:36	27° る 39'52		inferior conj	3385 Dec 25 13:34	4° る 04'25	1°33'37
evening set	3385 Jan 04 21:30	26° පි 29'11		minimum elong	3385 Dec 25 11:37	4° る 11'10	1°32'52
inferior conj	3385 Jan 10 05:53	20° る 14'02	2°16'54	min. Earth dist.	3385 Dec 25 08:43	4° る 21'12	0.67958 AU
minimum elong	3385 Jan 10 03:26	20° る 22'30	2°16'07		3385 Dec 28 16:24	30°R. ✓	
min. Earth dist.	3385 Jan 10 12:19	19° る 51'45	0.67773 AU	morning rise	3385 Dec 30 18:17	27° ∡ ¹54'57	
morning rise	3385 Jan 15 09:10	14° る 01'30		direct	3386 Jan 04 07:11	26° ₹ 03'21	
direct	3385 Jan 20 12:50	11° る 47'05			3386 Jan 11 22:48	0°ಕ	
morning max el	3385 Jan 30 21:07	17° る 56'14	23°20'13	morning max el	3386 Jan 13 09:33	1° る 23'13	21°53'20
desc. node	3385 Feb 09 08:27	29° る 12'52		desc. node	3386 Jan 27 05:29	18° る 52'03	
	3385 Feb 09 22:38	0° ≈			3386 Feb 03 20:25	0° ≈	
	3385 Mar 02 03:16	0° ∀		morning set	3386 Feb 14 23:32	17° ≈ 15′07	
morning set	3385 Mar 06 21:28	7° ∺ 50'51		max. Earth dist.	3386 Feb 20 23:07	27° ≈ 01'59	1.41401 AU
max. Earth dist.	3385 Mar 11 00:30	14°) € 54'48	1.39263 AU		3386 Feb 22 17:33	0° ∀	
superior conj	3385 Mar 18 15:02	28°) 36'33	-1°48'06	superior conj	3386 Feb 28 16:04	10° ¥ 14'30	-2°03'29
minimum elong	3385 Mar 18 19:33	28° H 57'35		minimum elong	3386 Feb 28 18:48	10° ¥ 26'34	
	3385 Mar 19 08:57	20 γ (3/33	1 ., 10	evening rise	3386 Mar 11 07:12	29° H 32'51	_ 00 _ 20
evening rise	3385 Mar 28 00:34	16° Υ 32'47		J, 0111115 1150	3386 Mar 11 13:05	29 γ (3231	
asc. node	3385 Mar 31 21:53	23° Y '58'04		asc. node	3386 Mar 18 18:55	13° Υ '04'53	
	3385 Apr 04 05:34	0° 8		evening max el	3386 Mar 27 14:50	25° Υ 30'55	18°13'10
evening max el	3385 Apr 04 05:34 3385 Apr 13 06:33	12° 8 44'05	18°38'31	retrograde	3386 Apr 03 13:53	29° Υ '00'38	10 15 10
retrograde	3385 Apr 21 03:49	16° 8 36'02	10 3031	evening set	3386 Apr 06 02:31	28° Υ 33'48	
evening set	3385 Apr 23 10:03	16° 8 18'08		inferior conj	3386 Apr 13 01:31	23° Y '47'55	2°58'24
inferior conj	3385 May 01 03:02		1°57'29	minimum elong	3386 Apr 13 04:50	23° Y '40'33	2°57'44
minimum elong	3385 May 01 05:02 3385 May 01 06:40	11° 8 46'19		min. Earth dist.	3386 Apr 16 10:40	20° Υ 49'06	0.59805 AU
crong	222 224 02 00.10	11 0 10 17			эттерт то толо		

morning rise	3386 Apr 20 04:44	18° Ƴ 04'47		morning rise	3387 Apr 02 04:52	0° Ƴ 17'55	
desc. node	3386 Apr 25 04:39	16° Ƴ 13'55			3387 Apr 02 15:11	30°₽ ℋ	
direct	3386 Apr 26 16:04	16° Ƴ 07'54		direct	3387 Apr 09 01:25	27° ¥ 50'11	
morning max el	3386 May 11 00:05		27°29'37	desc. node	3387 Apr 12 01:42	28°) 16′16	
morning max or	3386 May 16 10:56	0°8	2, 2, 3,	dese. Hode	3387 Apr 15 23:51	0°Υ	
	•				•	5° Υ 47'46	27051112
	3386 Jun 04 18:08	0°II		morning max el	3387 Apr 23 04:32		2/*51*12
morning set	3386 Jun 11 12:17	13° Ⅱ 22'26			3387 May 11 10:05	0°8	
asc. node	3386 Jun 14 18:10	20° Ⅱ 15'27		morning set	3387 May 26 15:10	27° 8 44'26	
max. Earth dist.	3386 Jun 17 23:26	27° Ⅱ 16'49	1.32089 AU		3387 May 27 17:35	Π $\circ 0$	
				max. Earth dist.	3387 Jun 01 08:39	9° Ⅱ 48'04	1.32398 AU
superior conj	3386 Jun 18 16:05	28° Ⅱ 48'29	0°40'11	asc. node	3387 Jun 01 15:14	10° Ⅱ 23'38	
minimum elong	3386 Jun 18 14:25	28° Ⅲ 39'15	0°39'50				
minimum crong	3386 Jun 19 05:04	0°9	0 37 30	superior conj	3387 Jun 03 02:02	13° Ⅱ 32'42	0°15'13
evening rise	3386 Jun 25 12:02	13° © 41'36		minimum elong	3387 Jun 03 01:19	13° Ⅱ 28'51	0°15'03
	3386 Jul 03 16:51	$0^{\circ}\Omega$		behind sun begin	3387 Jun 02 23:40	13° Ⅱ 19'48	
desc. node	3386 Jul 22 03:55	26° Ω 39'52		behind sun end	3387 Jun 03 02:59	13° Ⅱ 37'54	
evening max el	3386 Jul 23 11:08	27° Ω 56'55	25°50'29	evening rise	3387 Jun 09 23:37	28° Ⅲ 31'47	
	3386 Jul 25 18:30	0° m			3387 Jun 10 16:17	0 \circ	
retrograde	3386 Aug 06 10:36	5° Mp 04'46			3387 Jun 27 15:27	$0^{\circ}\Omega$	
evening set	3386 Aug 12 14:49	3° Mp 34'04		evening max el	3387 Jul 05 01:45	8° Ω 41'10	24°23'46
min. Earth dist.	3386 Aug 16 23:23	0° m 57'06	0.58579 AU	desc. node	3387 Jul 09 00:56	12° Ω 01'39	
mm. Earth dist.	Č	30°R Ω	0.50577710				
	3386 Aug 18 07:23		500011.5	retrograde	3387 Jul 18 22:31	15° Ω 41'16	
inferior conj	3386 Aug 20 05:01	28° Ω 36′25		evening set	3387 Jul 23 19:07	14° Ω 48'29	
minimum elong	3386 Aug 20 07:36	28° Ω 31'42	5°02'04	min. Earth dist.	3387 Jul 29 12:36		0.56700 AU
morning rise	3386 Aug 28 02:38	24° Ω 13'08		inferior conj	3387 Aug 01 04:52	10° Ω 13'01	-5°01'54
direct	3386 Aug 30 14:05	23° Ω 53'14		minimum elong	3387 Aug 01 02:00	10° Ω 17'34	5°01'42
morning max el	3386 Sep 07 19:16	27° Ω 48'31	18°38'26	morning rise	3387 Aug 09 11:32	6° Ω 10'45	
C	3386 Sep 09 20:47	0° m/		direct	3387 Aug 12 03:36	5° Ω 51'33	
asc. node	3386 Sep 10 17:23	1° m 02'30		morning max el	3387 Aug 21 16:31	10°Ω18'04	19°33'49
morning set	3386 Sep 24 01:35	23° Mp 46'50		asc. node	3387 Aug 28 14:27	18° Ω 55'33	17 33 17
morning set		-		asc. noue	•		
	3386 Sep 27 06:21	0∘ ⊽			3387 Sep 03 23:05	0° m	
		_		morning set	3387 Sep 08 03:24	8° Mp 12'51	
superior conj	3386 Oct 02 19:18	10° ≏ 36'01	1°32'28				
minimum elong	3386 Oct 02 22:17	10° ≙ 50'04	1°32'12	superior conj	3387 Sep 16 02:47	24° M 12'56	1°42'41
max. Earth dist.	3386 Oct 10 01:23	23° ≏ 46'27	1.39742 AU	minimum elong	3387 Sep 16 04:02	24° Mp 19'04	1°42'38
	3386 Oct 13 16:07	0°M			3387 Sep 19 02:13	0∘ ⊽	
evening rise	3386 Oct 14 03:43	0°M48'58		max. Earth dist.	3387 Sep 22 05:39	5° £ 55'22	1.37671 AU
desc. node	3386 Oct 18 03:15	7°M23'46		evening rise	3387 Sep 25 23:48	12° ≏ 44'13	
dese. Hode		0° ∡ 7		Č	3387 Oct 05 00:16	27° £ 57'29	
	3386 Nov 02 01:15		22050142	desc. node			
evening max el	3386 Nov 18 04:59	20°×706'06	23°59'42		3387 Oct 06 07:04	0°M	
retrograde	3386 Nov 29 04:40	26° ₹ 33'49			3387 Oct 28 03:02	0°⊀	
evening set	3386 Dec 04 10:19	24° ₹ 22'59		evening max el	3387 Oct 31 17:15	3° ҂¹ 47'00	25°15'41
asc. node	3386 Dec 07 16:38	20° ≯ 51'20		retrograde	3387 Nov 12 16:48	10° ∡ ⁴42'13	
min. Earth dist.	3386 Dec 09 05:07	18° ∡ 51′03	0.67788 AU	evening set	3387 Nov 18 12:20	8° ⊀ 16'25	
inferior conj	3386 Dec 09 20:46	17° ∡ ¹58'05	0°44'10	min. Earth dist.	3387 Nov 22 23:17	3° ∡ 18'50	0.67273 AU
minimum elong	3386 Dec 09 19:44	18° ∡ ¹01'35	0°43'45	inferior conj	3387 Nov 24 01:42	1° ∡ 752'57	-0°10'16
morning rise	3386 Dec 15 05:09	11° ≯ 53'36		minimum elong	3387 Nov 24 01:58	1° ₹ '52'06	0°10'09
direct	3386 Dec 19 04:14	10° ₹ 24'39		transit middle	3387 Nov 24 01:58	1°×752'06	0°10'09
morning max el	3386 Dec 17 04:14 3386 Dec 27 04:54	15° 🗷 01'21	20°35'09		3387 Nov 24 01:38 3387 Nov 23 23:48	1° х 52'00	0 100)
morning max er			20 33 09	transit begin			
	3387 Jan 07 23:49	0° ප		transit end	3387 Nov 24 04:08	1° ₹ 45'04	
desc. node	3387 Jan 14 02:31	8° ප 55'31		asc. node	3387 Nov 24 13:40	1° ⊀ 14'10	
morning set	3387 Jan 25 01:13	25° る 34'37			3387 Nov 25 13:06	30°RM₊	
	3387 Jan 27 21:13	0° ≈		morning rise	3387 Nov 29 15:51	25°M55'36	
max. Earth dist.	3387 Feb 03 05:14	10° ≈ 04'53	1.43243 AU	direct	3387 Dec 03 02:44	24°M46'50	
				morning max el	3387 Dec 10 08:12	28°M50'50	19°30'08
superior conj	3387 Feb 09 17:04	20° ≈ 44'41	-2°05'53	Č	3387 Dec 11 10:36	0° ⊼	
minimum elong	3387 Feb 09 15:10	20°≈36'42		greatest brilliancy	3387 Dec 23 13:27	16° ∡ 127'08	-0.7m
	3387 Feb 15 04:04	0° \	_ 0001	desc. node	3387 Dec 23 13:27 3387 Dec 31 23:34	29° 🖈 16'46	V., III
arramiri-				uese. Hout			
evening rise	3387 Feb 21 22:03	11°) 46'35			3388 Jan 01 10:48	0°る	
	3387 Mar 04 13:41	0° Υ		morning set	3388 Jan 03 22:50	3° 云 51'47	
asc. node	3387 Mar 05 15:58	1° Y 40'49		max. Earth dist.	3388 Jan 16 18:08	23° る 52'03	1.44554 AU
evening max el	3387 Mar 11 02:42	8° Y 37'44	18°07'22				
retrograde	3387 Mar 17 14:58	12° Y 00'45		superior conj	3388 Jan 20 16:15	0° ≈ 06'34	-1°50'20
evening set	3387 Mar 20 09:19	11° Y 23'29		minimum elong	3388 Jan 20 08:40	29° る 36'13	1°49'47
inferior conj	3387 Mar 26 18:12	6° Υ 17'13	3°30'00	5	3388 Jan 20 14:37	0° ≈	
minimum elong	3387 Mar 26 19:51	6° Υ 13'01	3°29'51	evening rise	3388 Feb 03 16:51	23°≈06'42	
min. Earth dist.	3387 Mar 29 17:32	3°Υ16'32	0.61962 AU	0,0111115 1130	3388 Feb 03 10:31 3388 Feb 07 19:24	23 ≈ 00 42 0° H	
mm. Earm dist.	3301 IVIAI 29 11.32	J 11032	0.01702 AU		5500 FEU U/ 19.24	υ Λ	

asc. node	3388 Feb 20 13:00	19°) 36′53			3389 Jan 31 14:35	0°) €	
		21° H 57'57	10020120			5° ¥ 25'37	10051145
evening max el	3388 Feb 22 15:19		18°20'30	evening max el	3389 Feb 05 02:07		18-31-43
retrograde	3388 Feb 29 02:27	25° ¥ 27'28		asc. node	3389 Feb 06 10:02	6°) (41'14	
evening set	3388 Mar 03 02:26	24°) 38'46	2020140	retrograde	3389 Feb 11 20:20	9°) 13′09	
inferior conj	3388 Mar 09 01:02	19°) 13′36		evening set	3389 Feb 15 02:36	8°) 11′59	
minimum elong	3388 Mar 09 00:54	19°) 13′59	3°38'48	inferior conj	3389 Feb 20 18:10	2° H 29'40	3°30'39
min. Earth dist.	3388 Mar 11 09:51	16°) 32′18	0.63922 AU	minimum elong	3389 Feb 20 16:40	2°) 34'18	3°30'29
morning rise	3388 Mar 14 22:33	13° ∺ 05'41		min. Earth dist.	3389 Feb 22 11:24	0° ∺ 21'54	0.65526 AU
direct	3388 Mar 21 19:24	10° ∺ 19'01			3389 Feb 22 18:37	30°R ≈	
desc. node	3388 Mar 28 22:46	12°) 45′45		morning rise	3389 Feb 26 06:20	26° ≈ 17'45	
morning max el	3388 Apr 04 13:07	18° ¥ 15'35	27°35'37	direct	3389 Mar 04 20:22	23° ≈ 26'34	
	3388 Apr 14 10:11	0 ° $\mathbf{\gamma}$		desc. node	3389 Mar 15 19:49	29° ≈ 07'34	
	3388 May 03 07:15	9° 8			3389 Mar 16 18:22	0° ℋ	
morning set	3388 May 09 10:45	11° 8 41'21		morning max el	3389 Mar 17 22:56	1° ₩ 10'06	26°48'00
max. Earth dist.	3388 May 14 11:02	21° 8 54'31	1.33139 AU		3389 Apr 08 11:45	0 ° Υ	
				morning set	3389 Apr 22 19:47	25° Ƴ 03'42	
superior conj	3388 May 17 08:28	28° 8 02'04	-0°12'08		3389 Apr 25 08:59	$B_{\circ 0}$	
minimum elong	3388 May 17 09:04	28° 8 05'19	0°12'01	max. Earth dist.	3389 Apr 27 03:12	3° 8 29'17	1.34342 AU
behind sun begin	3388 May 17 05:31	27° 8 46'15			1		
behind sun end	3388 May 17 12:38	28° 8 24'23		superior conj	3389 May 01 09:16	12° 8 10'29	-0°40'46
	3388 May 18 06:29	0°II		minimum elong	3389 May 01 11:24	12° 8 21'33	0°40'20
asc. node	3388 May 18 12:17	0° Ⅱ 31'11		asc. node	3389 May 05 09:20	20° 8 34'19	
evening rise	3388 May 24 11:16	13° I 17'47		evening rise	3389 May 08 21:05	27° 8 53'58	
evening rise	3388 Jun 01 22:32	0°95		evening rise	3389 May 09 21:25	0° I	
evening max el	3388 Jun 15 15:25	19° 5 06'35	22047'11	evening max el	3389 May 28 12:01	29° ∏ 46'16	21°15'37
desc. node	3388 Jun 24 21:58	25°906'27	22 4/ 11	evening max er	3389 May 28 17:43	0°95	21 1337
	3388 Jun 28 21:59	25°543'06		ratra arada	3389 Jun 09 11:36	5° 9 38'44	
retrograde				retrograde			
evening set	3388 Jul 02 06:12	25°918'35	O 55254 ATT	evening set	3389 Jun 11 18:40	5°926'35	
min. Earth dist.	3388 Jul 09 23:48	21°953'54		desc. node	3389 Jun 11 19:01	5°926'26	2041102
inferior conj	3388 Jul 11 09:48	21°905'07		inferior conj	3389 Jun 21 03:52	1°927'57	
minimum elong	3388 Jul 11 02:01	21°5016'18	4°13'40	minimum elong	3389 Jun 20 20:40	1°538'03	2°38'40
morning rise	3388 Jul 20 00:05	17°©13'45		min. Earth dist.	3389 Jun 21 11:19	1°517'30	0.54850 AU
direct	3388 Jul 22 22:44	16° © 53'34			3389 Jun 23 19:39	30°RⅡ	
morning max el	3388 Aug 03 02:14	22°504'04	20°50'23	morning rise	3389 Jun 29 23:04	27° Ⅲ 30'11	
	3388 Aug 09 18:32	$0^{\circ}\Omega$		direct	3389 Jul 03 08:42	27° Ⅱ 05'08	
asc. node	3388 Aug 14 11:31	7° Ω 31'39			3389 Jul 12 03:20	0	
morning set	3388 Aug 22 10:31	22° Ω 54'13		morning max el	3389 Jul 16 00:46	3° © 06'08	22°24'30
	3388 Aug 25 20:30	O° m y		asc. node	3389 Aug 01 08:35	26° © 40'17	
					3389 Aug 03 01:42	$0 {\circ} \Omega$	
superior conj	3388 Aug 29 21:40	8° m ,23′27	1°44'31	morning set	3389 Aug 06 20:49	7° Ω 45'04	
minimum elong	3388 Aug 29 21:19	8° m 21'41	1°44'31				
max. Earth dist.	3388 Sep 03 13:44	17° m 46'25	1.35793 AU	superior conj	3389 Aug 14 00:23	22° Ω 57'04	1°39'26
evening rise	3388 Sep 07 15:40	25° m 35'19		minimum elong	3389 Aug 13 22:52	22° Ω 49′02	1°39'21
	3388 Sep 10 01:15	0∘ ⊽			3389 Aug 17 09:16	O° Mp	
desc. node	3388 Sep 20 21:17	18° ≙ 17'11		max. Earth dist.	3389 Aug 17 06:20	29° Ω 44'56	1.34260 AU
	3388 Sep 28 18:36	0°M		evening rise	3389 Aug 21 22:53	9° m 10'21	
evening max el	3388 Oct 13 05:34	17° M 27'48	26°20'24	-	3389 Sep 02 12:48	0∘ ত	
retrograde	3388 Oct 25 23:55	24°MJ39'16		desc. node	3389 Sep 07 18:17	8° ≏ 16'20	
evening set	3388 Nov 01 08:57	22°ML02'15			3389 Sep 24 17:15	0°M,	
min. Earth dist.	3388 Nov 05 12:49	17° M 40'09	0.66417 AU	evening max el	3389 Sep 25 18:09	1°M00'56	27°06'11
inferior conj	3388 Nov 07 02:30	15° M .44'59		retrograde	3389 Oct 09 01:19	8° M .18'11	
minimum elong	3388 Nov 07 04:21	15°M39'20		evening set	3389 Oct 15 21:55	5°M36'12	
asc. node	3388 Nov 10 10:44	11°ML57'57		min. Earth dist.	3389 Oct 19 19:17	1°M49'58	0.65214 AU
morning rise	3388 Nov 13 00:17	9°M57'22			3389 Oct 21 10:24	30° Ŗ Ω	
direct	3388 Nov 16 01:02	9°ML05'14		inferior conj	3389 Oct 21 10:24 3389 Oct 21 20:58	29° £ 30'05	-2°08'50
morning max el	3388 Nov 22 18:18	12°M47'06	18°40'30	minimum elong	3389 Oct 22 00:33	29° ⊆ 20'00	
morning max ci	3388 Dec 05 07:00	0° √	18 40 30	morning rise	3389 Oct 22 00:33 3389 Oct 28 04:04	23° £ 55'17	2 07 20
morning set		0 x . 13° x 13'19		asc. node		23° £ 50'56	
morning set	3388 Dec 13 16:14				3389 Oct 28 07:47		
desc. node	3388 Dec 17 20:35	19° ₹ 50'00		direct	3389 Oct 30 21:02	23° Ω 15'54	10007120
	3388 Dec 24 07:35	0°ප		morning max el	3389 Nov 06 08:59	26° Ω 45'10	18°07'28
	2200 5 20 50 5	00-7	1015146		3389 Nov 09 05:01	0°M	
superior conj	3388 Dec 29 20:52	8°る43'01		morning set	3389 Nov 24 15:04	24°M03'24	
minimum elong	3388 Dec 29 12:09	8° පි 08'49			3389 Nov 28 05:50	0° √	
max. Earth dist.	3388 Dec 29 11:29		1.45186 AU	desc. node	3389 Dec 04 17:34	10° ≯ 31'18	
	3389 Jan 12 08:07	0° ≈					
evening rise	3389 Jan 14 12:26	3°≈28'55		superior conj	3389 Dec 09 01:42	17° ∡ 26'38	
greatest brilliancy	3389 Jan 22 09:01	16° ≈ 03'15	-0.9m	minimum elong	3389 Dec 08 22:01	17° ∡ 11'59	0°28'45

max. Earth dist.	3389 Dec 12 06:54	22° ∡ ³31'31	1.45078 AU	evening rise	3390 Dec 04 20:12	22° ₹ 10′00	
	3389 Dec 17 01:21	0°ರ			3390 Dec 09 23:17	0°ರ	
evening rise	3389 Dec 25 10:21	13° る 01'17			3390 Dec 31 04:44	0° ≈	
	3390 Jan 05 11:02	0° ≈		evening max el	3391 Jan 02 10:35	2° ≈ 27'56	20°41'37
greatest brilliancy	3390 Jan 07 08:53	2° ≈ 52'57	-0.7m	retrograde	3391 Jan 10 15:35	7° ≈ 18'46	
evening max el	3390 Jan 19 08:59	18° ≈ 56′09	19°39'34	asc. node	3391 Jan 11 04:05	7° ≈ 17'16	
asc. node	3390 Jan 24 07:04	22° ≈ 39′26		evening set	3391 Jan 14 14:18	5° ≈ 49'22	
retrograde	3390 Jan 26 17:30	23° ≈ 11′29		inferior conj	3391 Jan 19 23:09	29° る 39'36	
evening set	3390 Jan 30 07:15	21° ≈ 56'46		minimum elong	3391 Jan 19 20:38	29° る 48'16	2°37'52
inferior conj	3390 Feb 04 18:23	15° ≈ 59'24	3°09'38		3391 Jan 19 17:12	30°Rる	
minimum elong	3390 Feb 04 16:06	16° ≈ 06'55	3°09'10	min. Earth dist.	3391 Jan 20 12:26	28° る 54'10	0.67502 AU
min. Earth dist.	3390 Feb 05 20:52	14° ≈ 32'03	0.66721 AU	morning rise	3391 Jan 25 02:47	23° る 26'21	
morning rise	3390 Feb 10 00:44	9° ≈ 45'58		direct	3391 Jan 30 14:55	21° る 00'11	
direct	3390 Feb 16 03:05	7°≈02'56		morning max el	3391 Feb 10 16:38	27° る 36'28	24°11'30
morning max el	3390 Feb 28 08:05	14° ≈ 19'19	25°36'40		3391 Feb 12 22:46	0° ≈	
desc. node	3390 Mar 02 16:50	16°≈49'48		desc. node	3391 Feb 17 13:50	5°≈29'38	
	3390 Mar 13 03:11	0°) €			3391 Mar 06 19:36	0° ∀	
_	3390 Apr 01 07:04	0° Υ		morning set	3391 Mar 18 11:22	19°) €08'41	
morning set	3390 Apr 05 13:50	7° Υ 37'43		max. Earth dist.	3391 Mar 22 04:41	25°) (42'39	1.38022 AU
max. Earth dist.	3390 Apr 09 07:57	14° Ƴ 37'05	1.36003 AU		3391 Mar 24 13:22	0° Y	
	2200 4 15 01 41	2500040110	1000114		2201 14 20 07 20	000040144	1025120
superior conj	3390 Apr 15 01:41	25° Y 49'18		superior conj	3391 Mar 29 06:20	8° Υ 49'44	
minimum elong	3390 Apr 15 05:17	26° Y 07′23	1°08'3/	minimum elong	3391 Mar 29 10:53	9° Υ 11'31	1°34'46
	3390 Apr 17 03:25	0° 8		evening rise	3391 Apr 07 02:16	26° Y 07'37	
asc. node	3390 Apr 22 06:22 3390 Apr 23 02:54	10° 8 28'10		asc. node	3391 Apr 09 03:23	0°႘08'16	
evening rise	3390 Apr 23 02:34 3390 May 02 13:11	12° ႘ 12'50 0° Ⅱ		arranina may al	3391 Apr 09 01:41	22° 8 56'09	19°02'01
avanina may al	•	0°Д 11°Д00'55	19°59'07	evening max el	3391 Apr 23 15:43	27° 8 09'01	19-02-01
evening max el	3390 May 10 20:05	11° Д 00′33	19-3907	retrograde	3391 May 02 07:23	26° 8 55'06	
retrograde	3390 May 21 02:33 3390 May 23 01:57	16 H 00 24 15° H 50'09		evening set	3391 May 04 09:50	20 8 33 00 22° 8 40'52	1°07'27
evening set desc. node	3390 May 29 16:03	13° I I3'55		inferior conj minimum elong	3391 May 12 14:14 3391 May 12 16:47	22° 6 36'25	1°06'33
inferior conj	3390 Jun 01 01:02	13 H 13 33	0.42,02	min. Earth dist.	3391 May 12 10.47 3391 May 15 15:31	22 8 30 23	0.56644 AU
minimum elong	3390 May 31 23:06	11° I I53'00		desc. node	3391 May 16 13:04	19° 8 59'02	0.30044 AC
min. Earth dist.	3390 Jun 03 00:05	10° I I39'10	0.55313 AU	morning rise	3391 May 20 20:34	19 8 3902	
morning rise	3390 Jun 09 18:22	7° II 27'05	0.55515 AU	direct	3391 May 25 23:43	16° 8 40'18	
direct	3390 Jun 13 22:02	6° I I49'23		morning max el	3391 Jun 09 06:34	24° 8 02'08	25°44'35
morning max el	3390 Jun 27 16:05	13° II 36'35	24°07'22	morning max er	3391 Jun 14 16:52	0°II	23 44 33
morning max er	3390 Jul 10 08:45	0° ©	24 07 22		3391 Jul 03 04:01	0°9	
asc. node	3390 Jul 19 05:36	16° © 12'23		asc. node	3391 Jul 06 02:38	6° © 01'29	
morning set	3390 Jul 22 08:30	22° © 39'31		morning set	3391 Jul 06 19:57	7° 5 32'33	
morning sev	3390 Jul 25 18:38	0° U		morning sec	3331 001 00 13.57	, 00200	
	2570 (41 25 10.50	000		superior conj	3391 Jul 13 18:56	22° © 39'37	1°12'58
superior conj	3390 Jul 29 08:12	7° Ω 44'43	1°28'37	minimum elong	3391 Jul 13 16:35	22° © 26'41	1°12'35
minimum elong	3390 Jul 29 06:01	7° Ω 32'52		max. Earth dist.	3391 Jul 14 16:10	24°936'03	1.32404 AU
max. Earth dist.	3390 Jul 31 07:56	12° Ω 02'02	1.33127 AU		3391 Jul 17 03:40	$0^{\circ}\Omega$	
evening rise	3390 Aug 05 17:19	23° Ω 17'18		evening rise	3391 Jul 20 19:41	7° Ω 46'35	
	3390 Aug 09 02:55	0° m			3391 Aug 01 13:36	0° m	
desc. node	3390 Aug 25 15:20	27° m 45'54		desc. node	3391 Aug 12 12:22	16° Mp 33'25	
	3390 Aug 27 05:16	0∘ ত		evening max el	3391 Aug 21 12:54	26° № 52'28	27°14'45
evening max el	3390 Sep 08 05:26	14° ≙ 13'44	27°26'07		3391 Aug 25 04:56	0∘ ত	
retrograde	3390 Sep 21 20:29	21° ≏ 30'36		retrograde	3391 Sep 04 08:55	4° £ 06'45	
evening set	3390 Sep 29 00:23	18° ≏ 52'49		evening set	3391 Sep 11 12:36	1° ≏ 45'15	
min. Earth dist.	3390 Oct 02 16:31	15° ≙ 40'04	0.63660 AU		3391 Sep 13 21:53	30°₽, ₩	
inferior conj	3390 Oct 05 06:35	13° ≏ 02'17	-3°08'42	min. Earth dist.	3391 Sep 15 03:11	28° m 58'18	0.61800 AU
minimum elong	3390 Oct 05 11:41	12° ≏ 49'18	3°06'59	inferior conj	3391 Sep 18 04:14	26° Mp 13'38	
morning rise	3390 Oct 12 00:15	7° £ 43'53		minimum elong	3391 Sep 18 10:00	26° Mp 00′34	4°02'24
direct	3390 Oct 14 11:58	7° ≏ 13'39		morning rise	3391 Sep 25 09:08	21°M/15'01	
asc. node	3390 Oct 15 04:49	7° ≏ 16'06		direct	3391 Sep 27 18:17	20° m 50'50	
morning max el	3390 Oct 21 01:29	10° ≏ 38'53	17°51'52	asc. node	3391 Oct 02 01:50	22° Mp 13'07	
	3390 Nov 03 02:35	0° M ₊		morning max el	3391 Oct 04 16:45	24° m 20'29	17°54'28
morning set	3390 Nov 06 16:22	6°M10′39			3391 Oct 09 07:03	0∘ ⊽	
				morning set	3391 Oct 20 13:39	19° £ 14'30	
superior conj	3390 Nov 19 02:05	27°M10'38	0°17'18		3391 Oct 26 12:47	0°M₊	
minimum elong	3390 Nov 19 03:56	27° M .18'11	0°17'04				
	3390 Nov 20 19:30	0° ∡		superior conj	3391 Oct 31 05:17	8°M13'22	0°55'23
desc. node	3390 Nov 21 14:35	1° ∡ 17'33		minimum elong	3391 Oct 31 09:29	8°M31'25	0°54'50
max. Earth dist.	3390 Nov 25 01:06	6° ⊀ 49'29	1.44246 AU	max. Earth dist.	3391 Nov 07 14:50	20°M39'58	1.42797 AU

desc. node	3391 Nov 08 11:37	22°M04'53		evening rise	3392 Oct 24 17:16	11° M 47'25	
desc. Hode	3391 Nov 08 11:37 3391 Nov 13 10:05	0° √		desc. node	3392 Oct 24 17:10 3392 Oct 25 08:40	12°M50'15	
evening rise	3391 Nov 14 09:45	1° × ⁷ 33'14		desc. node	3392 Nov 05 09:02	0° √	
evening rise	3391 Dec 03 12:15	0°중		evening max el	3392 Nov 27 22:07	29° х 35'45	23°13'48
evening max el	3391 Dec 16 06:34	ි ජි00'19	21°54'38	evening max or	3392 Nov 28 07:54	0°중	23 13 10
retrograde	3391 Dec 25 12:35	21° る 30'42	21 0.00	retrograde	3392 Dec 08 07:01	5° る 44'20	
asc. node	3391 Dec 29 01:07	20°る23'39		evening set	3392 Dec 13 04:47	3°₹43'02	
evening set	3391 Dec 29 22:01	19° る 45'38		asc. node	3392 Dec 14 22:08	2°る01'56	
inferior conj	3392 Jan 04 06:20	13° る 26'52	1°59'21		3392 Dec 16 14:27	30°R. ✓	
minimum elong	3392 Jan 04 04:03	13° る 34'49	1°58'34	min. Earth dist.	3392 Dec 18 04:38	27° х 51'37	0.67925 AU
min. Earth dist.	3392 Jan 04 07:48	13° る 21'46	0.67893 AU	inferior conj	3392 Dec 18 14:04	27° х 19′09	1°13'21
morning rise	3392 Jan 09 09:56	7° る 15'20		minimum elong	3392 Dec 18 12:28	27° ҂ 24'42	1°12'43
direct	3392 Jan 14 07:08	5° る 10'44		morning rise	3392 Dec 23 20:04	21° ₹ 11'17	
morning max el	3392 Jan 24 02:41	10° る 59'05	22°42'34	direct	3392 Dec 28 02:53	19° ∡ ¹29'27	
desc. node	3392 Feb 04 10:51	24° පි 50'18		morning max el	3393 Jan 05 17:45	24° ҂ ³30′23	21°18'36
	3392 Feb 08 03:35	0° ≈			3393 Jan 10 13:55	0°ಕ	
morning set	3392 Feb 27 06:19	29° ≈ 20'59		desc. node	3393 Jan 21 07:54	14° පි 40'42	
	3392 Feb 27 15:47	0° ℋ			3393 Jan 31 13:54	0° ≈	
max. Earth dist.	3392 Mar 03 00:13	7° 升 18′22	1.40191 AU	morning set	3393 Feb 05 20:36	8° ≈ 12'57	
				max. Earth dist.	3393 Feb 13 01:15	19° ≈ 47'18	1.42236 AU
superior conj	3392 Mar 10 18:52	21°) €00'42	-1°55'52		3393 Feb 19 03:40	0° ∀	
minimum elong	3392 Mar 10 22:57	21° ℋ 19'17	1°55'35				
	3392 Mar 15 15:35	0 ° $\mathbf{\gamma}$		superior conj	3393 Feb 20 10:16	2° 升 11′02	-2°06'26
evening rise	3392 Mar 20 16:04	9° Ƴ 29'48		minimum elong	3393 Feb 20 11:22	2° 升 15'48	2°06'25
asc. node	3392 Mar 26 00:26	19° Ƴ 28'57		evening rise	3393 Mar 03 16:33	22° 升 11′03	
	3392 Apr 01 09:08	$6^{\circ}B$			3393 Mar 08 00:29	$0^{\circ}\mathbf{\Upsilon}$	
evening max el	3392 Apr 05 20:21	5° 8 26'37	18°25'16	asc. node	3393 Mar 12 21:28	8° Y 23'37	
retrograde	3392 Apr 13 06:56	9° 8 07'23		evening max el	3393 Mar 20 06:38	18° Ƴ 23'22	18°08'23
evening set	3392 Apr 15 15:46	8° 8 46'06		retrograde	3393 Mar 26 23:47	21° Y 48'13	
inferior conj	3392 Apr 23 00:43	4° 8 12'30	2°27'15	evening set	3393 Mar 29 14:54	21° Y 17'08	
minimum elong	3392 Apr 23 04:30	4° 8 04'48	2°26'17	inferior conj	3393 Apr 05 07:27	16° Ƴ 22'47	3°14'59
min. Earth dist.	3392 Apr 26 11:21	1° 8 25'36	0.58564 AU	minimum elong	3393 Apr 05 10:08	16° Ƴ 16′27	3°14'34
	3392 Apr 28 10:34	30° ₹Ƴ		min. Earth dist.	3393 Apr 08 13:31	13° Ƴ 19'56	0.60735 AU
morning rise	3392 Apr 30 14:13	28° Ƴ 42'34		morning rise	3393 Apr 12 03:18	10° Ƴ 31'45	
desc. node	3392 May 02 10:04	27° Ƴ 53'27		direct	3393 Apr 18 19:56	8° Y 20'13	
direct	3392 May 06 15:50	27° Ƴ 06'01		desc. node	3393 Apr 19 07:07	8° Y 20′50	
	3392 May 15 04:00	$_{0\circ}$ 8		morning max el	3393 May 03 02:10	16° Ƴ 14'48	27°43'23
morning max el	3392 May 21 01:18	4° 8 49'39	27°00'26		3393 May 14 08:59	9° 8	
	3392 Jun 08 12:58	\mathfrak{I} 0°			3393 Jun 01 01:51	$\Pi^{\circ}0$	
morning set	3392 Jun 20 05:34	22° Ⅱ 18'59		morning set	3393 Jun 04 11:30	6° Ⅱ 51'45	
asc. node	3392 Jun 21 23:41	26° Ⅲ 02'12		asc. node	3393 Jun 08 20:44	16° Ⅱ 08'56	
	3392 Jun 23 19:44	0ං ව		max. Earth dist.	3393 Jun 10 14:48	19° Ⅱ 57'47	1.32166 AU
superior conj	3392 Jun 27 06:46	7° © 35'47	0°53'12	superior conj	3393 Jun 11 17:54	22° II 26'13	0°29'57
minimum elong	3392 Jun 27 04:43	7° 5 24'28	0°52'48	minimum elong	3393 Jun 11 16:35	22° I 19'01	0°29'39
max. Earth dist.	3392 Jun 27 03:43	7° © 18'59	1.32083 AU	minimum crong	3393 Jun 15 04:35	0°9	0 2) 3)
evening rise	3392 Jul 04 03:22	22° © 30'19	1.52005 110	evening rise	3393 Jun 18 14:05	7° 5 20'12	
e vennig rise	3392 Jul 07 18:49	0° U		evening rise	3393 Jun 30 09:23	0°N	
	3392 Jul 25 20:14	0° m)		evening max el	3393 Jul 15 08:34	19° Ω 55'22	25°15'57
desc. node	3392 Jul 29 09:23	4° m) 21'52		desc. node	3393 Jul 16 06:25	20° Ω 46'12	
evening max el	3392 Aug 02 14:20	8° Mp 47'34	26°30'10	retrograde	3393 Jul 29 08:05	27° Ω 00'54	
retrograde	3392 Aug 16 13:36	15° m 58'37		evening set	3393 Aug 03 23:57	25° Ω 47'00	
evening set	3392 Aug 23 05:58	14° m 06'37		min. Earth dist.	3393 Aug 08 20:25	23° Ω 04'37	0.57734 AU
min. Earth dist.	3392 Aug 27 03:49	11° mp 31'02	0.59752 AU	inferior conj	3393 Aug 11 22:08	20° Ω 58'39	
inferior conj	3392 Aug 30 10:33	8° m 55'55		minimum elong	3393 Aug 11 22:39	20° Ω 57'46	
minimum elong	3392 Aug 30 15:07	8° Mp 46'52		morning rise	3393 Aug 19 23:44	16° Ω 44'34	
morning rise	3392 Sep 07 02:23	4° m 19'28		direct	3393 Aug 22 12:46	16° Ω 25'11	
direct	3392 Sep 09 11:57	3° m 58'44		morning max el	3393 Aug 31 06:33	20° Ω 32'40	18°59'17
morning max el	3392 Sep 17 03:34	7° m 42'01	18°16'27	asc. node	3393 Sep 04 19:57	25° Ω 52'51	
asc. node	3392 Sep 17 03:51 3392 Sep 17 22:53	8° m 30'44			3393 Sep 07 13:58	0° m	
	3392 Oct 01 11:21	0∘ ಹ		morning set	3393 Sep	17° m) 12'48	
morning set	3392 Oct 03 01:16	2° £ 59'28		<i>6</i>	3393 Sep 23 10:37	0∘ಹ	
	2222	200 2 2	1000105		2222	00	1005:
superior conj	3392 Oct 12 09:03	20° £ 28'05	1°22'06	superior conj	3393 Sep 25 07:53	3° £ 38'35	
minimum elong	3392 Oct 12 12:53	20° £ 45'30	1°21'41	minimum elong	3393 Sep 25 10:09	3° Ω 49'28	1°37'46
	3392 Oct 17 17:31	0°M,	1 10051 :==	max. Earth dist.	3393 Oct 02 03:38	16° £ 18'56	1.38854 AU
max. Earth dist.	3392 Oct 19 23:03	3°M50'31	1.40921 AU	evening rise	3393 Oct 06 00:14	23° ≏ 05'59	

•	•		Č	` ''		, 1	•
	3393 Oct 10 02:27	0° M		minimum elong	3394 Sep 08 21:12	17° m 33'18	1°44'23
desc. node	3393 Oct 10 02:27 3393 Oct 12 05:43	3°M29'17		max. Earth dist.	3394 Sep 14 09:11		1.36844 AU
desc. Hode	3393 Oct 12 05:43 3393 Oct 30 05:38	0° x ⁷		max. Earth dist.		0° ⊽	1.30044 AU
			24022102		3394 Sep 15 06:42		
evening max el	3393 Nov 10 11:10	13° ₹ 15'12	24°33'02	evening rise	3394 Sep 18 05:14	5° Ω 25'48	
retrograde	3393 Nov 21 21:33	19° ∡ 55'33		desc. node	3394 Sep 29 02:45	23° ≏ 57'33	
evening set	3393 Nov 27 09:00	17° ∡ ³38'22			3394 Oct 03 00:08	0° M	
asc. node	3393 Dec 01 19:11	12° ∡ ³38'13		evening max el	3394 Oct 23 23:28	26° ™ 56'47	25°45'06
min. Earth dist.	3393 Dec 02 00:28	12° 渘 ¹20'42	0.67609 AU		3394 Oct 27 09:48	0° ∡ ¹	
inferior conj	3393 Dec 02 20:33	11° ∡ 13'39	0°21'40	retrograde	3394 Nov 05 07:25	3° ∡ ¹59'26	
minimum elong	3393 Dec 02 20:02	11° √ 15'25	0°21'26	evening set	3394 Nov 11 08:55	1° ∡ ¹28'19	
morning rise	3393 Dec 08 07:07	5° √ 11'42		C	3394 Nov 12 22:16	30°RM₀	
direct	3393 Dec 12 00:51	3° ₹ '51'30		min. Earth dist.	3394 Nov 15 16:50	26°M45'51	0.66954 AU
morning max el	3393 Dec 12 00:31	8° ₹ 12'51	20°05'41	inferior conj	3394 Nov 16 23:57	25°M07'12	
morning max cr	3394 Jan 04 23:03	0°る	20 03 41			25°M04'20	
1 1				minimum elong	3394 Nov 17 00:51		0 34 12
desc. node	3394 Jan 08 04:57	4° る 52'30		asc. node	3394 Nov 18 16:14	23°M02'20	
morning set	3394 Jan 15 17:22	16° る 21'53		morning rise	3394 Nov 22 17:08	19°M13'44	
	3394 Jan 24 10:30	0° ≈		direct	3394 Nov 25 23:32	18°M12'22	
max. Earth dist.	3394 Jan 26 10:30	3° ≈ 11'07	1.43878 AU	morning max el	3394 Dec 02 22:45	22°M05'15	19°07'05
					3394 Dec 09 09:15	0° ∡ ¹	
superior conj	3394 Feb 01 00:16	12° ≈ 12'06	-2°01'43	morning set	3394 Dec 25 21:05	25° ₮ 00'08	
minimum elong	3394 Jan 31 19:48	11° ≈ 53'49	2°01'31	desc. node	3394 Dec 26 01:59	25° ∡ 19'10	
	3394 Feb 11 14:54	0° ∀			3394 Dec 29 02:03	8°0	
evening rise	3394 Feb 13 23:23	4°) €02'56		max. Earth dist.	3395 Jan 09 02:15		1.44911 AU
asc. node	3394 Feb 27 18:31	26°) (44'12		max. Earth dist.	5575 Juli 07 02.15	17 01101	1.119111110
asc. node	3394 Mar 02 07:20	0°Υ		superior coni	3395 Jan 11 13:48	21° ට 09'04	1027147
		1° Υ 37'36	10010142	superior conj			
evening max el	3394 Mar 03 19:17		18°10'42	minimum elong	3395 Jan 11 04:52	20° ප 33'43	1°36'58
retrograde	3394 Mar 10 05:46	5° Υ 01'28			3395 Jan 17 03:08	0° ≈	
evening set	3394 Mar 13 02:37	4° Ƴ 19'17		evening rise	3395 Jan 26 08:30	14° ≈ 58'19	
	3394 Mar 18 09:52	30° ₹ ₩			3395 Feb 04 13:01	0° ∀	
inferior conj	3394 Mar 19 06:41	29°) (04'48	3°36'07	asc. node	3395 Feb 14 15:33	14°) (19′43	
minimum elong	3394 Mar 19 07:32	29° ∺ 02'30	3°36'04	evening max el	3395 Feb 15 07:24	15° 米 01'19	18°31'37
min. Earth dist.	3394 Mar 22 00:09	26°) 10′21	0.62836 AU	retrograde	3395 Feb 21 20:30	18°) 37′10	
morning rise	3394 Mar 25 11:20	23° ₩ 01'27		evening set	3395 Feb 24 23:06	17°) 43′07	
direct	3394 Apr 01 09:11	20°) €24'01		inferior conj	3395 Mar 02 18:18	12° ¥ 10′09	3°37'08
desc. node	3394 Apr 06 04:08	21°) (30'10		minimum elong	3395 Mar 02 17:32		3°37'06
morning max el	3394 Apr 15 08:31	1.1	27°48'53	min. Earth dist.	3395 Mar 04 20:21	9°) (42'11	0.64651 AU
morning max ci	3394 Apr 16 22:38	26 γ 21 26	27 40 33		3395 Mar 08 11:24	6° \(\) 00'10	0.04031 AU
	•			morning rise			
	3394 May 08 04:10	0° 8		direct	3395 Mar 15 06:00	3° ¥ 10′16	
morning set	3394 May 19 11:37	21° 8 04'08		desc. node	3395 Mar 24 01:10	6° ∺ 51'27	
	3394 May 23 19:16	Π $\circ 0$		morning max el	3395 Mar 28 18:02	11° ∺ 02'16	27°18'56
max. Earth dist.	3394 May 24 21:39	2° Ⅱ 20'17	1.32665 AU		3395 Apr 12 18:23	0 ° Υ	
asc. node	3394 May 26 17:48	6° Ⅱ 17'29			3395 Apr 30 15:17	9° 8	
				morning set	3395 May 03 03:08	4° 8 47'23	
superior conj	3394 May 27 02:37	7° Ⅱ 05'08	0°03'52	max. Earth dist.	3395 May 07 20:18	14° 8 14'48	1.33602 AU
minimum elong	3394 May 27 02:25	7° Ⅱ 04'07	0°03'50		•		
behind sun begin	3394 May 26 21:20	6° Ⅱ 36'34		superior conj	3395 May 11 06:54	21° 8 26'04	-0°24'11
behind sun end	3394 May 27 07:31	7° Ⅱ 31'42		minimum elong	3395 May 11 08:09	21° 8 32'36	
evening rise	3394 Jun 03 01:57	22° ∏ 09'46		asc. node	3395 May 17 00:07	26° 8 23'30	0 23 33
evening rise		0°9		asc. node	-	0°II	
	3394 Jun 06 20:50				3395 May 15 07:23		
	3394 Jun 26 10:32	0°N		evening rise	3395 May 18 13:03	6° ∏ 52′20	
evening max el	3394 Jun 26 22:00	0° Ω 28'08	23°42'55		3395 May 30 22:28	0∘ ©	
desc. node	3394 Jul 03 03:25	5° Ω 14'12		evening max el	3395 Jun 08 13:34	10°\$55'02	22°06'44
retrograde	3394 Jul 10 14:11	7° Ω 19'47		desc. node	3395 Jun 20 00:25	17° © 11'04	
evening set	3394 Jul 14 19:12	6° Ω 40'53		retrograde	3395 Jun 21 08:40	17° © 15'14	
min. Earth dist.	3394 Jul 21 08:12	3° Ω 35'36	0.56051 AU	evening set	3395 Jun 24 04:18	16° © 57'34	
inferior conj	3394 Jul 23 13:26	2° Ω 15′28	-4°48'23	min. Earth dist.	3395 Jul 02 18:55	13° © 16'00	0.55029 AU
minimum elong	3394 Jul 23 08:05	2° Ω 23'33	4°47'40	inferior conj	3395 Jul 03 12:14	12° © 51'41	-3°40'22
Ç	3394 Jul 27 12:57	30° ₽ 5		minimum elong	3395 Jul 03 03:52	13°903'25	
morning rise	3394 Jul 31 23:31	28° © 19'23		morning rise	3395 Jul 12 05:13	9° 5 00'31	
direct	3394 Aug 03 18:23	27°959'50		direct	3395 Jul 15 07:52	8°938'58	
anov	3394 Aug 10 09:57	27 3 3930		morning max el	3395 Jul 27 03:34	14° © 10'01	21028142
	•		20002150	morning max ei			21 20 4 3
morning max el	3394 Aug 13 22:53	2° Ω 43'30	20-03-30	,	3395 Aug 07 22:21	0° Ω	
asc. node	3394 Aug 22 17:01	14° Ω 05′20		asc. node	3395 Aug 09 14:04	2° Ω 56′24	
_	3394 Aug 31 06:14	0° m		morning set	3395 Aug 16 11:53	16° Ω 32'19	
morning set	3394 Sep 01 03:10	1° ™ 45'57			3395 Aug 22 21:43	0°Щ	
superior conj	3394 Sep 08 20:40	17° m 30'38	1°44'23	superior conj	3395 Aug 23 19:17	1° ™ 52'27	1°43'08

minimum elong	3395 Aug 23 18:22	1° m 47'45	1°43'06	minimum elong	3396 Aug 06 22:37	16° Ω 23'19	1°35'20
max. Earth dist.	3395 Aug 27 20:44	10° mp 11'04	1.35092 AU	max. Earth dist.	3396 Aug 09 17:01	22°Ω15'44	1.33721 AU
evening rise	3395 Sep 01 04:09	18° Mp 36'57			3396 Aug 13 11:11	0° m)	
<i>y</i> 21	3395 Sep 07 09:39	0∘ ⊽		evening rise	3396 Aug 14 16:34	2° m 26'53	
desc. node	3395 Sep 15 23:45	14° ≏ 09'39		C	3396 Aug 30 06:20	0∘ ⊽	
	3395 Sep 27 03:47	0°M		desc. node	3396 Sep 01 20:46	3° ჲ 57'36	
evening max el	3395 Oct 06 11:50	10°M35'12	26°42'33	evening max el	3396 Sep 17 23:51	24° ≏ 00'37	27°18'09
retrograde	3395 Oct 19 12:06	17° M 50'17			3396 Sep 26 03:48	0°M	
evening set	3395 Oct 26 02:35	15°M09'53		retrograde	3396 Oct 01 11:10	1°M19'13	
min. Earth dist.	3395 Oct 30 03:30	11°M03'27	0.65949 AU		3396 Oct 06 09:25	30° ₹ Ω	
inferior conj	3395 Oct 31 22:19	8°M56'54	-1°33'58	evening set	3396 Oct 08 11:30	28° ≏ 37'28	
minimum elong	3395 Nov 01 00:53	8°M49'16	1°32'54	min. Earth dist.	3396 Oct 12 06:15	25° ≙ 06'07	0.64591 AU
asc. node	3395 Nov 05 13:16	4°M11'07		inferior conj	3396 Oct 14 13:20	22° £ 37'13	-2°34'31
morning rise	3395 Nov 06 23:54	3°M14'39		minimum elong	3396 Oct 14 17:36	22° ≏ 25'39	2°32'55
direct	3395 Nov 09 21:03	2°M28'28		morning rise	3396 Oct 21 00:50	17° ≏ 09'10	
morning max el	3395 Nov 16 11:13	6°M03'41	18°24'28	asc. node	3396 Oct 22 10:18	16° ≏ 41'48	
	3395 Dec 03 00:24	0°⊀		direct	3396 Oct 23 15:08	16° ≏ 34'15	
morning set	3395 Dec 06 02:48	4° ₹ 59'25		morning max el	3396 Oct 30 03:04	20° ഫ 01'03	17°58'40
desc. node	3395 Dec 12 23:00	15° ≯ 56'33			3396 Nov 06 15:15	0°M₊	
		_		morning set	3396 Nov 16 13:34	16°M24'10	
superior conj	3395 Dec 21 15:48	29° ∡ ′41′06			3396 Nov 24 17:36	0° ∡ ¹	
minimum elong	3395 Dec 21 08:43	29° х 13′18	0°55'56	desc. node	3396 Nov 28 20:01	6° ≯ 140′22	
	3395 Dec 21 20:37	0° ろ					
max. Earth dist.	3395 Dec 22 21:01	1° る 35'44	1.45227 AU	superior conj	3396 Nov 30 03:13	8° ∡ 745'54	
evening rise	3396 Jan 06 18:20	24° る 57'47		minimum elong	3396 Nov 30 02:09	8° 🖈 41'35	0°08'44
4 41 711	3396 Jan 09 23:04	0°≈	0.0	behind sun begin	3396 Nov 29 17:17	8°×706'01	
greatest brilliancy	3396 Jan 17 00:25	11°≈03'19	-0.8m	behind sun end	3396 Nov 30 11:00	9° 🖈 17'07	1 44004 411
evening max el	3396 Jan 29 16:38	28°≈29'58	19°10'06	max. Earth dist.	3396 Dec 04 15:38	15° ₹ 57'39	1.44804 AU
1	3396 Jan 31 06:51	0°)(3396 Dec 13 15:16	0°る	
asc. node	3396 Feb 01 12:34	0° 		evening rise	3396 Dec 16 09:21	4°る15'05 26°る06'40	-0.6m
retrograde	3396 Feb 05 16:14 3396 Feb 09 01:27	1° H 28'39		greatest brilliancy	3396 Dec 30 19:25 3397 Jan 02 11:39	20° ≈	-0.6m
evening set	3396 Feb 10 18:15	1 \(\chi_2\)1 34 30°\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		evening max el	3397 Jan 02 11.39 3397 Jan 11 21:18	0 ≈ 12°≈00'45	20°04'26
inferior conj	3396 Feb 14 14:49	25°≈32'40	3°23'07	asc. node	3397 Jan 11 21:18 3397 Jan 18 09:35	12 ≈00 45 16°≈23'05	20 04 20
minimum elong	3396 Feb 14 12:55	25°≈38'42	3°22'49	retrograde	3397 Jan 18 09:35	16°≈30'48	
min. Earth dist.	3396 Feb 16 01:34	23°≈41'38	0.66081 AU	evening set	3397 Jan 23 07:20	15°≈10'11	
morning rise	3396 Feb 20 00:05	19°≈19'36	0.00001710	inferior conj	3397 Jan 28 17:16	9°≈07'15	2°57'33
direct	3396 Feb 26 09:26	16°≈30'40		minimum elong	3397 Jan 28 14:49	9°≈15'29	2°56'59
desc. node	3396 Mar 09 22:13	23°≈50'35		min. Earth dist.	3397 Jan 29 14:02	7°≈57'27	0.67098 AU
morning max el	3396 Mar 10 03:58	24°≈05'01	26°20'03	morning rise	3397 Feb 02 22:05	2°≈53'28	0.07050110
	3396 Mar 15 11:31	0° ∀		direct	3397 Feb 08 18:35	0°≈16'32	
	3396 Apr 05 03:51	0°Υ		morning max el	3397 Feb 20 12:42	7° ≈ 18'03	25°01'29
morning set	3396 Apr 15 06:25	17° Y 50'55		desc. node	3397 Feb 24 19:14	11° ≈ 59'36	
max. Earth dist.	3396 Apr 19 07:38	25° Y 36'39	1.34995 AU		3397 Mar 10 05:38	0°) €	
	3396 Apr 21 12:49	9° 8		morning set	3397 Mar 28 16:34	0° Y 00'42	
					3397 Mar 28 16:24	$0^{\circ}\mathbf{\Upsilon}$	
superior conj	3396 Apr 24 04:28	5° 8 22'27	-0°52'58	max. Earth dist.	3397 Apr 01 07:55	6° Ƴ 38'01	1.36817 AU
minimum elong	3396 Apr 24 07:15	5° 8 36'43	0°52'27				
asc. node	3396 Apr 29 11:53	16° 8 22'58		superior conj	3397 Apr 07 16:23	18° Ƴ 46′28	-1°20'45
evening rise	3396 May 01 21:27	21° 8 21'44		minimum elong	3397 Apr 07 20:30	19° Y 06'43	1°20'08
	3396 May 06 04:26	Π $^{\circ}0$			3397 Apr 13 07:09	9° 8	
evening max el	3396 May 20 14:39	21° ∏ 47′27	20°40'49	evening rise	3397 Apr 16 00:52	5° 8 31'23	
retrograde	3396 May 31 21:41	27° Ⅱ 18′08		asc. node	3397 Apr 16 08:54	6° 8 11'43	
evening set	3396 Jun 02 23:15	27° Ⅱ 07'48			3397 Apr 30 04:04	Π $^{\circ}0$	
desc. node	3396 Jun 05 21:26	26° Ⅱ 20'41		evening max el	3397 May 03 04:00	3° Ⅱ 20'43	19°32'29
inferior conj	3396 Jun 12 05:47	23° Ⅱ 10'18		retrograde	3397 May 12 17:09	7° Ⅱ 58'41	
minimum elong	3396 Jun 12 00:33			evening set	3397 May 14 17:00	7° Ⅱ 47'27	
min. Earth dist.	3396 Jun 13 07:02	22° Ⅲ 34'04	0.54924 AU	inferior conj	3397 May 23 08:43	3° Ⅱ 42'58	0°07'07
morning rise	3396 Jun 21 01:13	19° Ⅱ 03'36		minimum elong	3397 May 23 09:02	3° ∏ 42′28	0°07'00
direct	3396 Jun 24 17:13	18° Ⅱ 34'38	22000101	transit middle	3397 May 23 09:02	3° ∏ 42′28	0°07'00
morning max el	3396 Jul 07 22:31	24° Ⅱ 56'50	23~08'01	transit begin	3397 May 23 05:31	3° ∏ 48′04	
	3396 Jul 12 14:46	0.20 0.20		transit end	3397 May 23 12:32	3° II 36'52	
asc. node	3396 Jul 26 11:06	22°©15'51		desc. node	3397 May 23 18:28	3° Ⅱ 27'23	0.55701 117
	3396 Jul 30 06:40	0°Ω 1°Ω25'22		min. Earth dist.	3397 May 25 21:11	2° ∏ 06'54	0.55781 AU
morning set	3396 Jul 30 22:57	1° Ω 25'22			3397 May 29 16:12	30°R8	
gunorier con-	2206 Aug 07 00:20	160 022117	1025120	morning rise	3397 May 31 22:21	29° 8 04'59	
superior conj	3396 Aug 07 00:28	16° Ω 33'17	1 33 30	direct	3397 Jun 05 11:46	28° 8 18'12	

		_				4.4	
	3397 Jun 12 04:45	0° I I		morning max el	3398 Jun 01 04:20	15° 8 53'28	26°20'14
morning max el	3397 Jun 19 12:46	5° Ⅱ 22'32	24°50'14		3398 Jun 12 15:03	Π °0	
	3397 Jul 07 04:15	0ං ව			3398 Jun 29 08:08	0 \circ \odot	
asc. node	3397 Jul 13 08:09	11° © 56'19		morning set	3398 Jun 29 21:38	1° © 10'54	
morning set	3397 Jul 15 10:45	16°©20'12		asc. node	3398 Jun 30 05:12	1° © 50'53	
	3397 Jul 21 18:09	0 $^{\circ}$ Ω					
		_		superior conj	3398 Jul 06 21:14	16° © 21'28	1°05'04
superior conj	3397 Jul 22 09:49		1°22'33	minimum elong	3398 Jul 06 18:57	16° © 08'54	1°04'40
minimum elong	3397 Jul 22 07:30	1° Ω 12'50	1°22'14	max. Earth dist.	3398 Jul 07 07:54		1.32226 AU
max. Earth dist.	3397 Jul 23 21:42	4° Ω 40'40	1.32771 AU		3398 Jul 13 04:11	$0 {\circ} \Omega$	
evening rise	3397 Jul 29 14:48	16° Ω 45'13		evening rise	3398 Jul 13 19:45	1° Ω 21'45	
	3397 Aug 05 10:08	O° My			3398 Jul 29 09:57	0° m y	
desc. node	3397 Aug 19 17:47	23°M 11'12		desc. node	3398 Aug 06 14:49	11° m 35'59	
	3397 Aug 24 22:55	0∘ ⊽		evening max el	3398 Aug 13 15:24	19° m 23'10	26°59'48
evening max el	3397 Aug 31 09:58	7° ≙ 01'12	27°25'20	retrograde	3398 Aug 27 12:48	26°₩35′08	
retrograde	3397 Sep 14 03:45	14° ≙ 17'15		evening set	3398 Sep 03 13:12	24° m 25'03	
evening set	3397 Sep 21 08:26	11° ≏ 45'03		min. Earth dist.	3398 Sep 07 05:40	21° m /44'49	0.60948 AU
min. Earth dist.	3397 Sep 24 23:19	8° ≏ 44'14	0.62902 AU	inferior conj	3398 Sep 10 09:53	19° m 02'20	-4°24'13
inferior conj	3397 Sep 27 18:17	6° £ 01'56	-3°33'02	minimum elong	3398 Sep 10 15:27	18° Mp 50′25	4°23'03
minimum elong	3397 Sep 27 23:49	5° ≏ 48'28	3°31'21	morning rise	3398 Sep 17 19:29	14° m 12'34	
morning rise	3397 Oct 04 16:42	0° ჲ 51'17		direct	3398 Sep 20 04:33	13° m 50'01	
direct	3397 Oct 07 02:52	0° £ 24'04		asc. node	3398 Sep 26 04:23	16° m 19'42	
asc. node	3397 Oct 09 07:20	0° ჲ 46'48		morning max el	3398 Sep 27 09:05	17° m 24'15	18°01'18
morning max el	3397 Oct 13 19:23	3° ♀ 50'30	17°50'34		3398 Oct 06 08:09	0∘ ত	
morning set	3397 Oct 30 00:09	28° £ 57'47		morning set	3398 Oct 13 04:11	12° ≏ 21'20	
_	3397 Oct 30 14:14	0°M		_	3398 Oct 22 20:29	0° M	
superior conj	3397 Nov 10 14:46	19° ™ 02'37	0°34'47	superior conj	3398 Oct 23 05:00	0° ™ 37'38	1°08'07
minimum elong	3397 Nov 10 18:02	19°M16'16	0°34'19	minimum elong	3398 Oct 23 09:16	0° ™ 56'29	1°07'36
desc. node	3397 Nov 15 17:03	27°M27'26		max. Earth dist.	3398 Oct 30 19:51	13° M 41'37	1.42045 AU
	3397 Nov 17 06:44	0° ∡ ¹		desc. node	3398 Nov 02 14:06	18° M ₊14'31	
max. Earth dist.	3397 Nov 17 07:56	0° ≯ 04'50	1.43701 AU	evening rise	3398 Nov 05 14:41	23°ML07'10	
evening rise	3397 Nov 25 18:41	13° ∡ ¹24'48			3398 Nov 09 23:45	0° ∡ 7	
	3397 Dec 06 17:41	0°ප			3398 Nov 30 20:05	0°ප	
evening max el	3397 Dec 25 20:34	25° る 32'55	21°11'42	evening max el	3398 Dec 08 14:37	9° ට 07'13	22°27'54
	3397 Dec 31 15:21	0° ≈		retrograde	3398 Dec 18 07:45	14° る 53'40	
retrograde	3398 Jan 03 11:47	0° ≈ 40′03		evening set	3398 Dec 22 22:21	13° ප 01'36	
asc. node	3398 Jan 05 06:36	0° ≈ 22'35		asc. node	3398 Dec 23 03:38	12° る 50'29	
	3398 Jan 06 04:13	30°₽₹		inferior conj	3398 Dec 28 06:56	6° る 40'22	1°40'37
evening set	3398 Jan 07 14:50	29° පි 04'14		minimum elong	3398 Dec 28 04:53	6° る 47'29	1°39'51
inferior conj	3398 Jan 12 23:18	22° る 50'29	2°22'50	min. Earth dist.	3398 Dec 28 03:40	6° る 51'40	0.67955 AU
minimum elong	3398 Jan 12 20:49	22° る 59'03	2°22'04	morning rise	3399 Jan 02 11:17	0° る 30'25	
min. Earth dist.	3398 Jan 13 07:29	22° る 22'15	0.67717 AU		3399 Jan 03 02:53	30°₽ ⋌ 7	
morning rise	3398 Jan 18 02:36	16° ප 37'47		direct	3399 Jan 07 02:20	28° ∡ ³35′29	
direct	3398 Jan 23 08:31	14° る 20'09			3399 Jan 11 11:17	8°0	
morning max el	3398 Feb 02 21:15	20° ප 36'17	23°33'30	morning max el	3399 Jan 16 09:01	4° る 02'24	22°05'52
	3398 Feb 10 22:18	0° ≈		desc. node	3399 Jan 29 13:19	20° る 33'05	
desc. node	3398 Feb 11 16:16	0° ≈ 58'18			3399 Feb 05 02:12	0° ≈	
	3398 Mar 03 11:21	0° ∀		morning set	3399 Feb 18 09:50	20° ≈ 35'48	
morning set	3398 Mar 10 03:23	10° ¥ 59'11		max. Earth dist.	3399 Feb 24 00:46	29° ≈ 50'37	1.41099 AU
max. Earth dist.	3398 Mar 14 02:52	17° ₩ 51'06	1.38939 AU		3399 Feb 24 03:00	0° ∀	
	3398 Mar 20 20:03	0 ° \mathbf{Y}					
				superior conj	3399 Mar 03 18:58	13°) 1 4′10	-2°01'53
superior conj	3398 Mar 21 14:46	1° Ƴ 27'21	-1°44'58	minimum elong	3399 Mar 03 22:10	13° ∺ 28′20	2°01'44
minimum elong	3398 Mar 21 19:22	1° Ƴ 48'51	1°44'30		3399 Mar 12 23:20	0° Y	
evening rise	3398 Mar 30 20:33	19° Ƴ 12'59		evening rise	3399 Mar 14 05:13	2° Y 19'06	
asc. node	3398 Apr 03 05:56	25° Ƴ 44'07		asc. node	3399 Mar 21 02:59	14° Y 54'36	
	3398 Apr 05 12:59	9° 8		evening max el	3399 Mar 30 11:20	28° Y 14'28	18°15'37
evening max el	3398 Apr 16 03:57	15° 8 32'10	18°44'01		3399 Apr 01 13:17	0°8	
retrograde	3398 Apr 24 05:33	19° 8 28'59		retrograde	3399 Apr 06 13:03	1° 8 46'40	
evening set	3398 Apr 26 10:49	19° 8 12'11		evening set	3399 Apr 09 00:41	1° 8 21'21	
inferior conj	3398 May 04 06:43	14° 8 50'06	1°45'19		3399 Apr 11 18:50	30° ₹ Υ	
minimum elong	3398 May 04 10:10	14° 8 43'40	1°44'15	inferior conj	3399 Apr 16 02:08	26° Y 38'31	2°51'11
min. Earth dist.	3398 May 07 14:01	12° 8 23'56	0.57409 AU	minimum elong	3399 Apr 16 05:37	26° Y 30'55	2°50'26
desc. node	3398 May 10 15:29	10° 8 26'32		min. Earth dist.	3399 Apr 19 11:59	23° Y 42'00	0.59480 AU
morning rise	3398 May 12 06:21	9° 8 37'38		morning rise	3399 Apr 23 07:59	20° Y 58'24	
direct	3398 May 17 19:55	8° 8 21'33		desc. node	3399 Apr 27 12:31	19° Y 19'53	

direct	3399 Apr 29 17:00	19° Ƴ 06'47		desc. node	3400 Apr 14 09:32	0° Ƴ 57'46	
morning max el	3399 May 14 01:38		27°23'16	morning max el	3400 Apr 14 05:32 3400 Apr 26 05:19	8° Υ 39'20	27°50'25
morning max or	3399 May 16 23:53	0°8	27 23 10	morning max or	3400 May 12 15:00	0°8	27 30 23
	3399 Jun 06 03:50	0°II		morning set	3400 May 29 09:42	0° ∏ 17'22	
morning set	3399 Jun 14 05:56	15° Ⅱ 52'02		3	3400 May 29 06:18	0° I I	
asc. node	3399 Jun 17 02:16	21° I I54'29		asc. node	3400 Jun 03 23:20	12° Ⅱ 02'37	
	3399 Jun 20 19:16	0°©		max. Earth dist.	3400 Jun 04 05:42	12° Ⅲ 37′04	1.32319 AU
superior conj	3399 Jun 21 08:57	1° © 15'21	0°43'43	superior conj	3400 Jun 05 19:17	16° Ⅱ 01'39	0°19'10
minimum elong	3399 Jun 21 07:10	1° 5 05'30	0°43'22	minimum elong	3400 Jun 05 18:24	15° Ⅲ 56'51	0°18'59
max. Earth dist.	3399 Jun 20 19:54	0° © 03'26	1.32072 AU		3400 Jun 12 05:18	0 \circ \odot	
evening rise	3399 Jun 28 04:57	16° © 08'36		evening rise	3400 Jun 12 16:23	0°ട്ട59'02	
	3399 Jul 05 02:21	0 $^{\circ}\Omega$			3400 Jun 28 13:28	$0 ^{\circ} \Omega$	
desc. node	3399 Jul 24 11:49	28° Ω 51'52		evening max el	3400 Jul 08 05:03	11° Ω 47'08	24°37'48
	3399 Jul 25 14:15	0° m ∕		desc. node	3400 Jul 11 08:50	14° Ω 31′27	
evening max el	3399 Jul 26 13:40	0° ™ 57'15	26°01'39	retrograde	3400 Jul 22 02:58	18° Ω 49'23	
retrograde	3399 Aug 09 13:07	8°M/06'06		evening set	3400 Jul 27 04:48	17° Ω 51'18	
evening set	3399 Aug 15 21:00	6° Mp 29′31		min. Earth dist.	3400 Aug 01 16:12	15° Ω 00'56	0.56949 AU
min. Earth dist.	3399 Aug 20 02:09	3° m 53'40	0.58878 AU	inferior conj	3400 Aug 04 11:28	13° Ω 12'24	
inferior conj	3399 Aug 23 08:33	1° m 28'33		minimum elong	3400 Aug 04 09:32	13° Ω 15'33	5°04'39
minimum elong	3399 Aug 23 11:45	1°Mp22'34	4°58'56	morning rise	3400 Aug 12 16:53	9° Ω 07'21	
	3399 Aug 25 09:24	30°R€		direct	3400 Aug 15 08:01	8° Ω 48'13	
morning rise	3399 Aug 31 04:43	27° Ω 01'59		morning max el	3400 Aug 24 15:49		19°24'10
direct	3399 Sep 02 15:36	26° Ω 41'56		asc. node	3400 Aug 30 22:32	20° Ω 52'15	
	3399 Sep 10 02:19	0°Ту			3400 Sep 05 08:32	0°Щ	
morning max el	3399 Sep 10 16:57	0° т у33'38	18°32'06	morning set	3400 Sep 10 21:17	10° m 42'49	
asc. node	3399 Sep 13 01:28	3° Mp 06'30					
morning set	3399 Sep 26 20:29	26° Mp 19'36		superior conj	3400 Sep 18 22:58	26° m/49'01	1°41'41
	3399 Sep 28 18:04	0∘ ⊽		minimum elong	3400 Sep 19 00:29	26° M 56'26	1°41'37
	2200 0 4 05 17 24	120 0 10112	1020102	To all III	3400 Sep 20 14:18	0° ⊽	1 27072 111
superior conj	3399 Oct 05 17:34	13° £ 18'12	1°30'02	max. Earth dist.	3400 Sep 25 06:28	8° £ 48'09	1.37973 AU
minimum elong	3399 Oct 05 20:48	13° £ 33'16	1°29'46	evening rise	3400 Sep 29 00:43	15° £ 34'03	
max. Earth dist.	3399 Oct 13 02:28 3399 Oct 15 02:00	26° £ 35'08 0° M	1.40049 AU	desc. node	3400 Oct 07 08:10	29° £ 33'01 0° M	
evening rise	3399 Oct 13 02:00 3399 Oct 17 07:55	3°M47'45			3400 Oct 07 14:54 3400 Oct 28 20:38	0°11℃	
desc. node	3399 Oct 17 07:33 3399 Oct 20 11:08	8°M57'35		evening max el	3400 Oct 28 20:38 3400 Nov 03 17:04	6° ∡ 724'19	25°04'55
desc. node	3399 Nov 03 05:24	0° ⊼ 7		retrograde	3400 Nov 15 13:28	13°×716'15	25 04 55
evening max el	3399 Nov 21 04:43	22° х 43'53	23°47'51	evening set	3400 Nov 21 06:51	10°×752'37	
retrograde	3399 Dec 02 00:39	29°×707'06	25 47 51	min. Earth dist.	3400 Nov 25 18:58	5° × ⁷ 49'41	0.67373 AU
evening set	3399 Dec 02 00:39 3399 Dec 07 04:14	26° ₹ 58'38		inferior conj	3400 Nov 26 19:44	4° × ⁷ 28'34	
asc. node	3399 Dec 10 00:41	23° × 57'38		minimum elong	3400 Nov 26 19:46	4°×728'26	0°01'42
min. Earth dist.	3399 Dec 12 00:15	21° х 21'40	0.67834 AU	transit middle	3400 Nov 26 19:46	4° ₹ 128'26	0°01'42
inferior conj	3399 Dec 12 14:20	20° х 33'46	0°52'03	transit begin	3400 Nov 26 17:01	4° ∡ ³37'29	
minimum elong	3399 Dec 12 13:08	20° ∡ ³37'51	0°51'33	transit end	3400 Nov 26 22:31	4° ҂ 19′24	
morning rise	3399 Dec 17 22:02	14° ₹ 28'22		asc. node	3400 Nov 26 21:43	4° ₹ 22'01	
direct	3399 Dec 21 23:02	12° ₹ 56'14			3400 Nov 30 13:48	30° ₽M ₽	
morning max el	3399 Dec 30 03:15	17° ∡ ³39′00	20°46'01	morning rise	3400 Dec 02 08:53	28° M 29'51	
	3400 Jan 09 02:24	8°0		direct	3400 Dec 05 21:26	27° M 18'15	
desc. node	3400 Jan 16 10:22	10° る 33'22			3400 Dec 11 16:07	0° ∡ ″	
morning set	3400 Jan 28 14:18	29° る 02'19		morning max el	3400 Dec 13 05:19	1° ≯ 26'32	19°38'46
	3400 Jan 29 05:06	0° ≈		greatest brilliancy	3400 Dec 26 08:51	18° ₰ 50'46	-0.7m
max. Earth dist.	3400 Feb 06 05:33	12° ≈ 45′02	1.42999 AU		3401 Jan 02 17:47	0°ಕ	
				desc. node	3401 Jan 03 07:24	0° る 52'08	
superior conj	3400 Feb 12 23:49	23° ≈ 55′02		morning set	3401 Jan 07 10:42	7° る 14'18	
minimum elong	3400 Feb 12 22:47	23° ≈ 50′39	2°06'34	max. Earth dist.	3401 Jan 19 17:13	26° る 25'20	1.44400 AU
	3400 Feb 16 13:40	0° ∀			3401 Jan 21 23:10	0° ≈	
evening rise	3400 Feb 24 22:43	14°) 40′26					
_	3400 Mar 05 17:56	0° Υ		superior conj	3401 Jan 24 02:39	3°≈26′22	
asc. node	3400 Mar 08 00:01	3° Y 35'50	1000 ***	minimum elong	3401 Jan 23 19:47	2°≈58'44	1°53'31
evening max el	3400 Mar 13 22:53	11° Υ 19'00	18°06'58	evening rise	3401 Feb 06 20:41	26°≈08'39	
retrograde	3400 Mar 20 12:09	14° Y 42'07			3401 Feb 09 03:26	0° ∀	
evening set	3400 Mar 23 05:38	14° Υ 06'33	2026112	asc. node	3401 Feb 22 21:02	21°) (38'49	100150
inferior conj	3400 Mar 29 16:22	9° Υ 03'23	3°26'49	evening max el	3401 Feb 25 11:35	24°) (37'59	18°17'24
minimum elong	3400 Mar 29 18:18	8°Υ58'34	3°26'35	retrograde	3401 Mar 03 22:17	28° X 05'37	
min. Earth dist.	3400 Apr 01 17:40	6°Υ01'16	0.61649 AU	evening set	3401 Mar 06 21:26	27°) 18'40	2020120
morning rise	3400 Apr 05 05:18	3° Υ 05'49 0° Υ 41'54		inferior conj	3401 Mar 12 21:21	21° X 56'19	
direct	3400 Apr 12 01:07	U 14134		minimum elong	3401 Mar 12 21:28	21° ¥ 56′00	3 3039

min. Earth dist.	3401 Mar 15 08:31	19° ₩ 11'00	0.63651 AU	minimum elong	3402 Feb 24 11:50	5°) 14′02	2022127
morning rise	3401 Mar 18 20:35	15°) 49'28	0.03031 AU	min. Earth dist.	3402 Feb 26 08:39	2° H 56'46	0.65314 AU
direct	3401 Mar 25 18:00	13° X 4928		iiiii. Latui dist.	3402 Mar 01 00:09	2 \ \\\ 30° \ \\\	0.03314 AU
desc. node	3401 Apr 01 06:34	15° X 04'33		morning rise	3402 Mar 02 02:30	28°≈58'34	
morning max el	3401 Apr 08 13:17	21° H 01'52	27°40'07	direct	3402 Mar 08 17:54	26°≈07'19	
morning max ci	3401 Apr 16 07:49	0°Υ	27 4007	uncet	3402 Mar 17 15:35	0° ∀	
	3401 May 05 17:01	0°8		desc. node	3402 Mar 19 03:35	1°) 14'30	
morning set	3401 May 13 06:30	14° 8 18'37		morning max el	3402 Mar 21 23:01	3°) 53′12	26°56'50
max. Earth dist.	3401 May 18 09:14	24° 8 47'39	1.32999 AU	morning max or	3402 Apr 10 17:48	0° Υ	20 30 30
max. Earth dist.	3401 May 20 20:02	0°II	1.52777110	morning set	3402 Apr 26 17:18	27° Υ 46'41	
	3 101 May 20 20.02	v 2		morning sec	3402 Apr 27 20:53	0°8	
superior conj	3401 May 21 02:20	0° Ⅱ 33'49	-0°07'53	max. Earth dist.	3402 May 01 03:08	6° 8 27'44	1.34140 AU
minimum elong	3401 May 21 02:44	0° П 35'54	0°07'47	max. Earth dist.	3 102 Way 01 03.00	0 027 11	1.5 11 10 110
behind sun begin	3401 May 20 22:03	0° П 10'46	0 07 17	superior conj	3402 May 05 04:06	14° 8 45'49	-0°36'23
behind sun end	3401 May 21 07:25	1° I I01'02		minimum elong	3402 May 05 04:00	14° 8 55'42	
asc. node	3401 May 21 07:23	2° I 10'34		asc. node	3402 May 08 17:22	22° 8 14'42	0 30 00
evening rise	3401 May 28 04:06	15° II 46'12		asc. node	3402 May 12 09:39	0°II	
evening rise	3401 Jun 04 06:33	0°95		evening rise	3402 May 12 09:39	0° П 24'20	
evening max el	3401 Jun 19 18:25	22° © 13'30	23°01'36	evening rise	3402 May 29 22:30	0°95	
desc. node	3401 Jun 28 05:51	22 \$13 30 27° \$59'11	23 01 30	arranina marral	3402 Jun 01 13:30	0 3 2° 9 48'56	21°28'23
	3401 Jul 28 03.31 3401 Jul 03 04:05	27 \$3911 28° \$54'33		evening max el	3402 Jun 13 18:25	2 9948 36 8°9548'48	21 28 23
retrograde				retrograde			
evening set	3401 Jul 06 17:23	28°526'54	0.55500 ATT	desc. node	3402 Jun 15 02:50	8°544'35	
min. Earth dist.	3401 Jul 14 03:32	25°907'38	0.55508 AU	evening set	3402 Jun 16 04:14	8°935'34	2057120
inferior conj	3401 Jul 15 18:53	24°510'35		inferior conj	3402 Jun 25 13:39	4°935'35	
minimum elong	3401 Jul 15 11:34	24°921'12	4°24'19	minimum elong	3402 Jun 25 05:57	4°546'22	
morning rise	3401 Jul 24 08:06	20°518'24		min. Earth dist.	3402 Jun 25 14:38	4°934'13	0.54870 AU
direct	3401 Jul 27 05:42	19° © 58'27		morning rise	3402 Jul 04 08:27	0° © 40'15	
morning max el	3401 Aug 07 03:13	25° © 01'54	20°37'41	direct	3402 Jul 07 16:11	0° © 16'15	
	3401 Aug 11 14:45	0 $^{\circ}$ Ω		morning max el	3402 Jul 20 03:07	6° © 09'21	22°09'42
asc. node	3401 Aug 17 19:35	9° £ 22′29		asc. node	3402 Aug 04 16:37	28° © 26'35	
morning set	3401 Aug 26 03:44	25° Ω 22'12			3402 Aug 05 12:15	0 $^{\circ}\Omega$	
	3401 Aug 28 09:31	0° m		morning set	3402 Aug 10 13:39	10° Ω 11'48	
	2401 0 02 16 22	100m 55100	1044140		2402 4 17 10 05	250 025120	1040126
superior conj	3401 Sep 02 16:22	10° m 55'02	1°44'42	superior conj	3402 Aug 17 18:05	25° Ω 25'30	1°40'36
minimum elong	3401 Sep 02 16:14	10° m 54'23	1°44'42	minimum elong	3402 Aug 17 16:43	25° Ω 18'16	1°40'31
max. Earth dist.	3401 Sep 07 13:41	20° m/40'22	1.36057 AU		3402 Aug 19 22:33	0° m	
evening rise	3401 Sep 11 13:55	28° Mp 17'32		max. Earth dist.	3402 Aug 21 05:00	2° ™ 37'01	1.34463 AU
	3401 Sep 12 12:09	0∘ ⊽		evening rise	3402 Aug 25 19:05	11° Mp 46'25	
desc. node	3401 Sep 24 05:11	19° ≙ 55'18			3402 Sep 04 20:54	0∘ ⊽	
	3401 Sep 30 21:48	0° M		desc. node	3402 Sep 11 02:12	9° £ 58'03	
evening max el	3401 Oct 17 05:27	20°M05'59	26°11'49		3402 Sep 26 04:21	0° M	
retrograde	3401 Oct 29 21:18	27°M15'21		evening max el	3402 Sep 29 18:02	3°M40'58	27°00'52
evening set	3401 Nov 05 04:23	24°M39'51		retrograde	3402 Oct 12 23:28	10°M57'37	
min. Earth dist.	3401 Nov 09 09:19	20°M12'20	0.66568 AU	evening set	3402 Oct 19 18:38	8°M15'49	
inferior conj	3401 Nov 10 21:15	18°M21'25	-0°59'29	min. Earth dist.	3402 Oct 23 16:55	4°M24'26	0.65414 AU
minimum elong	3401 Nov 10 22:51	18°M16'30	0°58'48	inferior conj	3402 Oct 25 16:48	2°M07'54	
asc. node	3401 Nov 13 18:46	14°M59'11		minimum elong	3402 Oct 25 20:06	1°M58'26	1°58'21
morning rise	3401 Nov 16 17:47	12°M32'05			3402 Oct 27 14:57	30°Ŗ ჲ	
direct	3401 Nov 19 19:57	11°ML37'38		morning rise	3402 Oct 31 22:25	26° ≏ 31'04	
morning max el	3401 Nov 26 14:29	15°M22'01	18°46'49	asc. node	3402 Oct 31 15:48	26° ≏ 39'36	
	3401 Dec 07 12:21	0°⊀		direct	3402 Nov 03 16:26	25° ≏ 49'59	
morning set	3401 Dec 18 00:10	16° ≯ 23'53		morning max el	3402 Nov 10 04:40	29° ≏ 20'24	18°11'22
desc. node	3401 Dec 21 04:26	21° ҂ ¹24'07			3402 Nov 10 19:58	0° M	
	3401 Dec 26 15:46	0° ප		morning set	3402 Nov 28 18:40	27°M01'31	
max. Earth dist.	3402 Jan 02 10:19	10° る 37'39	1.45139 AU		3402 Nov 30 14:19	0° ∡	
				desc. node	3402 Dec 08 01:28	12° ₰ 04'47	
superior conj	3402 Jan 03 09:03	12° る 06'58	-1°22'02				
minimum elong	3402 Jan 03 00:02	11° る 31'32	1°21'04	superior conj	3402 Dec 13 12:29	20° ∡ ¹45′52	-0°36'35
	3402 Jan 14 16:09	0° ≈		minimum elong	3402 Dec 13 07:50	20° ≯ 27'31	0°35'57
evening rise	3402 Jan 18 19:45	6° ≈ 39'32		max. Earth dist.	3402 Dec 16 05:55	25° х 03′46	1.45141 AU
greatest brilliancy	3402 Jan 25 09:48	17° ≈ 16′12	-0.9m		3402 Dec 19 09:28	8°0	
	3402 Feb 02 14:27	0° ∀		evening rise	3402 Dec 29 20:35	16° ප 18'40	
evening max el	3402 Feb 08 22:49	8° ∺ 05'13	18°46'01		3403 Jan 07 16:35	0° ≈	
asc. node	3402 Feb 09 18:03	8° 升 52′06		greatest brilliancy	3403 Jan 11 03:18	5° ≈ 15'34	-0.7m
retrograde	3402 Feb 15 15:24	11°) 49'14		evening max el	3403 Jan 23 06:21	21° ≈ 35′29	19°31'26
evening set	3402 Feb 18 20:44	10°) 49′53		asc. node	3403 Jan 27 15:04	25° ≈ 01'25	
inferior conj	3402 Feb 24 13:09	5°) 10′00	3°32'44	retrograde	3403 Jan 30 12:19	25° ≈ 46′12	
-							

avanina aat	3403 Feb 03 00:52	2490022120		avanina aat	3404 Jan 18 07:42	8° ≈ 25'27	
evening set		24°≈33'30	2012120	evening set			2042151
inferior conj	3403 Feb 08 12:29	18°≈38'04	3°13'28	inferior conj	3404 Jan 23 16:47	2°≈17'15	2°43'51
minimum elong	3403 Feb 08 10:18	18° ≈ 45'15	3°13'04	minimum elong	3404 Jan 23 14:15	2°≈25'51	2°43'10
min. Earth dist.	3403 Feb 09 17:02	17° ≈ 04'38	0.66570 AU	min. Earth dist.	3404 Jan 24 07:55	1° ≈ 25'34	0.67412 AU
morning rise	3403 Feb 13 19:31	12° ≈ 24'44			3404 Jan 25 09:25	30°₹ ⋜	
direct	3403 Feb 19 23:45	9° ≈ 39'59		morning rise	3404 Jan 28 20:37	26° る 03'43	
morning max el	3403 Mar 04 08:27	17° ≈ 01'17	25°48'26	direct	3404 Feb 03 10:54	23° る 34'40	
desc. node	3403 Mar 06 00:37	18° ≈ 46′20			3404 Feb 14 09:56	0° ≈	
	3403 Mar 15 04:13	0° ∀		morning max el	3404 Feb 14 17:05	0°≈17'55	24°24'36
	3403 Apr 03 16:24	$0^{\circ}\Upsilon$		desc. node	3404 Feb 20 21:41	7°≈18'55	
morning set	3403 Apr 09 13:54	10° Y 28'51			3404 Mar 08 02:05	0°) €	
max. Earth dist.	3403 Apr 13 09:40	17° Y 39'07	1.35732 AU	morning set	3404 Mar 21 14:56	22°) 10'30	
max. Earth dist.	3403 Apr 13 09.40	17 1 3907	1.33/32 AU	•		28°\(\frac{1030}{42'30}\)	1 27702 AII
	2402 4 10 21 56	200000000	1005100	max. Earth dist.	3404 Mar 25 07:06		1.37703 AU
superior conj	3403 Apr 18 21:56	28° Y ′29'27			3404 Mar 26 00:10	$0^{\circ}\Upsilon$	
minimum elong	3403 Apr 19 01:20	28° Y 46'37	1°04'25				
	3403 Apr 19 15:52	0°8		superior conj	3404 Apr 01 04:36	11° Y 36'13	
asc. node	3403 Apr 25 14:24	12° 8 10'16		minimum elong	3404 Apr 01 09:04	11° Ƴ 57'48	1°31'04
evening rise	3403 Apr 26 20:52	14° 8 46'19		evening rise	3404 Apr 09 21:24	28° Ƴ 45'13	
	3403 May 04 18:26	$\Pi^{\circ}0$			3404 Apr 10 12:31	0° ႘	
evening max el	3403 May 14 19:41	13° Ⅱ 57'28	20°09'16	asc. node	3404 Apr 11 11:26	1° 8 52'47	
retrograde	3403 May 25 08:32	19° Ⅱ 05'05		evening max el	3404 Apr 26 13:46	25° 8 47'09	19°09'17
evening set	3403 May 27 08:05	18° ∏ 54'59		evening man er	3404 May 04 01:17	0°П	1, 0, 1,
desc. node	3403 Jun 01 23:50	16° ∏ 51'42		ratra ara da	3404 May 05 10:49	0° П 06'14	
			1000111	retrograde	,		
inferior conj	3403 Jun 05 09:26	14° ∏ 55'54			3404 May 06 20:54	30°₹ 8	
minimum elong	3403 Jun 05 06:36		0°59'08	evening set	3404 May 07 12:22	29° 8 53'11	
min. Earth dist.	3403 Jun 07 03:07	13° Ⅱ 53'59	0.55184 AU	inferior conj	3404 May 15 19:46	25° 8 41'44	0°52'28
morning rise	3403 Jun 14 03:36	10° Ⅱ 37'39		minimum elong	3404 May 15 21:50	25° 8 38'12	0°51'45
direct	3403 Jun 18 03:58	10° Ⅲ 02'38		desc. node	3404 May 18 20:52	23° 8 38'19	
morning max el	3403 Jul 01 19:12	16° Ⅱ 43'32	23°52'07	min. Earth dist.	3404 May 18 18:18	23° 8 42'30	0.56394 AU
	3403 Jul 12 11:30	0°ಅ		morning rise	3404 May 24 04:12	20° 8 48'25	
asc. node	3403 Jul 22 13:40	17° © 55'56		direct	3404 May 29 03:41	19° 8 50'40	
morning set	3403 Jul 26 01:15	25°506'27		morning max el	3404 Jun 12 09:33	27° 8 08'42	25°31'07
morning set	3403 Jul 28 08:16	0°Ω		morning max er	3404 Jun 15 03:57	0°Ⅱ	23 31 07
	3403 Jul 28 08.10	0 06			3404 Juli 13 03.37	υд	
					2404 1-1 04 15.02	000	
	2402 4 02 04 40	100 011155	100000		3404 Jul 04 15:03	0°95	
superior conj	3403 Aug 02 01:18		1°30'36	asc. node	3404 Jul 08 10:43	7° © 43'10	
minimum elong	3403 Aug 01 23:11	10° Ω 00′32	1°30'22	asc. node morning set			
1 3	•				3404 Jul 08 10:43	7° © 43'10	
minimum elong	3403 Aug 01 23:11	10° Ω 00′32	1°30'22		3404 Jul 08 10:43	7° © 43'10	1°15'38
minimum elong max. Earth dist.	3403 Aug 01 23:11 3403 Aug 04 05:20	10° Ω 00'32 14° Ω 51'20	1°30'22	morning set	3404 Jul 08 10:43 3404 Jul 09 12:51	7°543'10 10°500'20	
minimum elong max. Earth dist.	3403 Aug 01 23:11 3403 Aug 04 05:20 3403 Aug 09 12:05	10° \$\O0'32 14° \$\O51'20 25° \$\O49'32	1°30'22	morning set superior conj	3404 Jul 08 10:43 3404 Jul 09 12:51 3404 Jul 16 11:45	7°\$43'10 10°\$00'20 25°\$06'39 24°\$53'42	
minimum elong max. Earth dist. evening rise	3403 Aug 01 23:11 3403 Aug 04 05:20 3403 Aug 09 12:05 3403 Aug 11 14:35 3403 Aug 28 23:12	10° N 00'32 14° N 51'20 25° N 49'32 0° M	1°30'22	morning set superior conj minimum elong	3404 Jul 08 10:43 3404 Jul 09 12:51 3404 Jul 16 11:45 3404 Jul 16 09:23 3404 Jul 17 12:42	7°\$43'10 10°\$00'20 25°\$06'39 24°\$53'42	1°15'17
minimum elong max. Earth dist. evening rise desc. node	3403 Aug 01 23:11 3403 Aug 04 05:20 3403 Aug 09 12:05 3403 Aug 11 14:35 3403 Aug 28 23:12 3403 Aug 29 06:40	10° \O 00'32 14° \O 51'20 25° \O 49'32 0° \O 29° \O 33'01 0° \O	1°30'22 1.33265 AU	morning set superior conj minimum elong max. Earth dist.	3404 Jul 08 10:43 3404 Jul 09 12:51 3404 Jul 16 11:45 3404 Jul 16 09:23 3404 Jul 17 12:42 3404 Jul 18 17:28	7°\$43'10 10°\$00'20 25°\$06'39 24°\$53'42 27°\$23'16 0°\$\$(1°15'17
minimum elong max. Earth dist. evening rise desc. node evening max el	3403 Aug 01 23:11 3403 Aug 04 05:20 3403 Aug 09 12:05 3403 Aug 11 14:35 3403 Aug 28 23:12 3403 Aug 29 06:40 3403 Sep 12 05:32	10° € 00'32 14° € 51'20 25° € 49'32 0° € 29° € 33'01 0° € 16° € 57'36	1°30'22 1.33265 AU	morning set superior conj minimum elong	3404 Jul 08 10:43 3404 Jul 09 12:51 3404 Jul 16 11:45 3404 Jul 16 09:23 3404 Jul 17 12:42 3404 Jul 18 17:28 3404 Jul 23 13:27	7°\$43'10 10°\$00'20 25°\$06'39 24°\$53'42 27°\$23'16 0°\$\Omega\$ 10°\$\Omega\$16'23	1°15'17
minimum elong max. Earth dist. evening rise desc. node evening max el retrograde	3403 Aug 01 23:11 3403 Aug 04 05:20 3403 Aug 09 12:05 3403 Aug 11 14:35 3403 Aug 28 23:12 3403 Aug 29 06:40 3403 Sep 12 05:32 3403 Sep 25 19:40	10° № 00'32 14° № 51'20 25° № 49'32 0° № 29° № 33'01 0° Ω 16° Ω 57'36 24° Ω 15'07	1°30'22 1.33265 AU	morning set superior conj minimum elong max. Earth dist. evening rise	3404 Jul 08 10:43 3404 Jul 09 12:51 3404 Jul 16 11:45 3404 Jul 16 09:23 3404 Jul 17 12:42 3404 Jul 18 17:28 3404 Jul 23 13:27 3404 Aug 02 21:20	7°\$43'10 10°\$00'20 25°\$06'39 24°\$53'42 27°\$23'16 0°\$\Omega\$ 10°\$\Omega\$16'23 0°\$\Omega\$	1°15'17
minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set	3403 Aug 01 23:11 3403 Aug 04 05:20 3403 Aug 09 12:05 3403 Aug 11 14:35 3403 Aug 28 23:12 3403 Aug 29 06:40 3403 Sep 12 05:32 3403 Sep 25 19:40 3403 Oct 02 22:55	10° \(\Omega 00'32 \) 14° \(\Omega 51'20 \) 25° \(\Omega 49'32 \) 0° \(\Omega \) 29° \(\Omega 33'01 \) 0° \(\Omega \) 16° \(\Omega 57'36 \) 24° \(\Omega 15'07 \) 21° \(\Omega 35'51 \)	1°30'22 1.33265 AU 27°25'01	morning set superior conj minimum elong max. Earth dist. evening rise desc. node	3404 Jul 08 10:43 3404 Jul 09 12:51 3404 Jul 16 11:45 3404 Jul 16 09:23 3404 Jul 17 12:42 3404 Jul 18 17:28 3404 Jul 23 13:27 3404 Aug 02 21:20 3404 Aug 14 20:13	7°\$43'10 10°\$00'20 25°\$06'39 24°\$53'42 27°\$23'16 0°\$\Omega\$ 10°\$\Omega\$16'23 0°\$\mathbf{m}\$18°\$\mathbf{m}\$28'05	1°15'17 1.32482 AU
minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist.	3403 Aug 01 23:11 3403 Aug 04 05:20 3403 Aug 09 12:05 3403 Aug 11 14:35 3403 Aug 28 23:12 3403 Aug 29 06:40 3403 Sep 12 05:32 3403 Sep 25 19:40 3403 Oct 02 22:55 3403 Oct 06 15:35	10° \(\Omega 00'32 \) 14° \(\Omega 51'20 \) 25° \(\Omega 49'32 \) 0° \(\Omega \) 29° \(\Omega 33'01 \) 0° \(\Omega \) 16° \(\Omega 57'36 \) 24° \(\Omega 15'07 \) 21° \(\Omega 35'51 \) 18° \(\Omega 18'35 \)	1°30'22 1.33265 AU 27°25'01 0.63910 AU	morning set superior conj minimum elong max. Earth dist. evening rise	3404 Jul 08 10:43 3404 Jul 09 12:51 3404 Jul 16 11:45 3404 Jul 16 09:23 3404 Jul 17 12:42 3404 Jul 18 17:28 3404 Jul 23 13:27 3404 Aug 02 21:20 3404 Aug 14 20:13 3404 Aug 24 13:44	7°\$43'10 10°\$00'20 25°\$06'39 24°\$53'42 27°\$23'16 0°\$\Omega\$ 10°\$\Omega\$16'23 0°\$\mathrm{m}\$18°\$\mathrm{m}\$28'05 29°\$\mathrm{m}\$42'23	1°15'17
minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj	3403 Aug 01 23:11 3403 Aug 04 05:20 3403 Aug 09 12:05 3403 Aug 11 14:35 3403 Aug 28 23:12 3403 Aug 29 06:40 3403 Sep 12 05:32 3403 Sep 25 19:40 3403 Oct 02 22:55 3403 Oct 06 15:35 3403 Oct 09 03:55	10° \(\Omega 00'32 \) 14° \(\Omega 51'20 \) 25° \(\Omega 49'32 \) 0° \(\Omega \) 29° \(\Omega 33'01 \) 0° \(\Omega \) 16° \(\Omega 57'36 \) 24° \(\Omega 15'07 \) 21° \(\Omega 35'51 \) 18° \(\Omega 18'35 \) 15° \(\Omega 42'44 \)	1°30'22 1.33265 AU 27°25'01 0.63910 AU -2°59'50	morning set superior conj minimum elong max. Earth dist. evening rise desc. node evening max el	3404 Jul 08 10:43 3404 Jul 09 12:51 3404 Jul 16 11:45 3404 Jul 16 09:23 3404 Jul 17 12:42 3404 Jul 18 17:28 3404 Jul 23 13:27 3404 Aug 02 21:20 3404 Aug 14 20:13 3404 Aug 24 13:44 3404 Aug 24 21:15	7°\$43'10 10°\$00'20 25°\$06'39 24°\$53'42 27°\$23'16 0°\$\Omega\$ 10°\$\Omega\$16'23 0°\$\mathbf{m}\$28'05 29°\$\mathbf{m}\$42'23 0°\$\mathbf{n}\$	1°15'17 1.32482 AU
minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong	3403 Aug 01 23:11 3403 Aug 04 05:20 3403 Aug 09 12:05 3403 Aug 11 14:35 3403 Aug 28 23:12 3403 Aug 29 06:40 3403 Sep 12 05:32 3403 Sep 25 19:40 3403 Oct 02 22:55 3403 Oct 06 15:35 3403 Oct 09 03:55 3403 Oct 09 08:49	10° \(\Omega 00'32 \) 14° \(\Omega 51'20 \) 25° \(\Omega 49'32 \) 0° \(\omega \) 29° \(\omega 33'01 \) 0° \(\omega \) 16° \(\omega 57'36 \) 24° \(\omega 15'07 \) 21° \(\omega 35'51 \) 18° \(\omega 18'35 \) 15° \(\omega 42'44 \) 15° \(\omega 30'02 \)	1°30'22 1.33265 AU 27°25'01 0.63910 AU -2°59'50	morning set superior conj minimum elong max. Earth dist. evening rise desc. node evening max el retrograde	3404 Jul 08 10:43 3404 Jul 09 12:51 3404 Jul 16 11:45 3404 Jul 16 09:23 3404 Jul 17 12:42 3404 Jul 18 17:28 3404 Jul 23 13:27 3404 Aug 02 21:20 3404 Aug 14 20:13 3404 Aug 24 13:44 3404 Aug 24 21:15 3404 Sep 07 09:22	7°\$43'10 10°\$00'20 25°\$06'39 24°\$53'42 27°\$23'16 0°\$\Omega\$ 10°\$\Omega\$16'23 0°\$\mathbf{m}\$28'05 29°\$\mathbf{m}\$42'23 0°\$\mathbf{n}\$6"\$\mathbf{n}\$257'28	1°15'17 1.32482 AU
minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise	3403 Aug 01 23:11 3403 Aug 04 05:20 3403 Aug 09 12:05 3403 Aug 11 14:35 3403 Aug 28 23:12 3403 Aug 29 06:40 3403 Sep 12 05:32 3403 Sep 25 19:40 3403 Oct 02 22:55 3403 Oct 09 03:55 3403 Oct 09 08:49 3403 Oct 15 19:58	10° \(\Omega 00'32 \) 14° \(\Omega 51'20 \) 25° \(\Omega 49'32 \) 0° \(\omega \) 29° \(\omega 33'01 \) 0° \(\omega \) 16° \(\omega 57'36 \) 24° \(\omega 15'07 \) 21° \(\omega 35'51 \) 18° \(\omega 18'35 \) 15° \(\omega 42'44 \) 15° \(\omega 30'02 \) 10° \(\omega 21'51 \)	1°30'22 1.33265 AU 27°25'01 0.63910 AU -2°59'50	morning set superior conj minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set	3404 Jul 08 10:43 3404 Jul 09 12:51 3404 Jul 16 11:45 3404 Jul 16 09:23 3404 Jul 17 12:42 3404 Jul 18 17:28 3404 Jul 23 13:27 3404 Aug 02 21:20 3404 Aug 14 20:13 3404 Aug 24 13:44 3404 Aug 24 21:15 3404 Sep 07 09:22 3404 Sep 14 13:34	7°\$43'10 10°\$00'20 25°\$06'39 24°\$53'42 27°\$23'16 0°\$\Omega\$ 10°\$\Omega\$16'23 0°\$\mathbf{m}\$28'05 29°\$\mathbf{m}\$42'23 0°\$\mathbf{n}\$6*\$\mathbf{n}\$57'28 4°\$\mathbf{n}\$32'42	1°15'17 1.32482 AU 27°18'35
minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong	3403 Aug 01 23:11 3403 Aug 04 05:20 3403 Aug 09 12:05 3403 Aug 11 14:35 3403 Aug 28 23:12 3403 Aug 29 06:40 3403 Sep 12 05:32 3403 Sep 25 19:40 3403 Oct 02 22:55 3403 Oct 06 15:35 3403 Oct 09 03:55 3403 Oct 09 08:49	10° \(\Omega 00'32 \) 14° \(\Omega 51'20 \) 25° \(\Omega 49'32 \) 0° \(\omega \) 29° \(\omega 33'01 \) 0° \(\omega \) 16° \(\omega 57'36 \) 24° \(\omega 15'07 \) 21° \(\omega 35'51 \) 18° \(\omega 18'35 \) 15° \(\omega 42'44 \) 15° \(\omega 30'02 \)	1°30'22 1.33265 AU 27°25'01 0.63910 AU -2°59'50	morning set superior conj minimum elong max. Earth dist. evening rise desc. node evening max el retrograde	3404 Jul 08 10:43 3404 Jul 09 12:51 3404 Jul 16 11:45 3404 Jul 16 09:23 3404 Jul 17 12:42 3404 Jul 18 17:28 3404 Jul 23 13:27 3404 Aug 02 21:20 3404 Aug 14 20:13 3404 Aug 24 13:44 3404 Aug 24 21:15 3404 Sep 07 09:22	7°\$43'10 10°\$00'20 25°\$06'39 24°\$53'42 27°\$23'16 0°\$\Omega\$ 10°\$\Omega\$16'23 0°\$\mathbf{m}\$28'05 29°\$\mathbf{m}\$42'23 0°\$\mathbf{n}\$6"\$\mathbf{n}\$257'28	1°15'17 1.32482 AU
minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise	3403 Aug 01 23:11 3403 Aug 04 05:20 3403 Aug 09 12:05 3403 Aug 11 14:35 3403 Aug 28 23:12 3403 Aug 29 06:40 3403 Sep 12 05:32 3403 Sep 25 19:40 3403 Oct 02 22:55 3403 Oct 09 03:55 3403 Oct 09 08:49 3403 Oct 15 19:58	10° \(\Omega 00'32 \) 14° \(\Omega 51'20 \) 25° \(\Omega 49'32 \) 0° \(\omega \) 29° \(\omega 33'01 \) 0° \(\omega \) 16° \(\omega 57'36 \) 24° \(\omega 15'07 \) 21° \(\omega 35'51 \) 18° \(\omega 18'35 \) 15° \(\omega 42'44 \) 15° \(\omega 30'02 \) 10° \(\omega 21'51 \)	1°30'22 1.33265 AU 27°25'01 0.63910 AU -2°59'50	morning set superior conj minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set	3404 Jul 08 10:43 3404 Jul 09 12:51 3404 Jul 16 11:45 3404 Jul 16 09:23 3404 Jul 17 12:42 3404 Jul 18 17:28 3404 Jul 23 13:27 3404 Aug 02 21:20 3404 Aug 14 20:13 3404 Aug 24 13:44 3404 Aug 24 21:15 3404 Sep 07 09:22 3404 Sep 14 13:34	7°\$43'10 10°\$00'20 25°\$06'39 24°\$53'42 27°\$23'16 0°\$\Omega\$ 10°\$\Omega\$16'23 0°\$\mathbf{m}\$28'05 29°\$\mathbf{m}\$42'23 0°\$\mathbf{n}\$6*\$\mathbf{n}\$57'28 4°\$\mathbf{n}\$32'42	1°15'17 1.32482 AU 27°18'35
minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct	3403 Aug 01 23:11 3403 Aug 04 05:20 3403 Aug 09 12:05 3403 Aug 11 14:35 3403 Aug 28 23:12 3403 Aug 29 06:40 3403 Sep 12 05:32 3403 Sep 25 19:40 3403 Oct 02 22:55 3403 Oct 06 15:35 3403 Oct 09 03:55 3403 Oct 09 08:49 3403 Oct 15 19:58 3403 Oct 18 08:17	10° \(\Omega 00'32 \) 14° \(\Omega 51'20 \) 25° \(\Omega 49'32 \) 0° \(\Omega \) 29° \(\Omega 33'01 \) 0° \(\Omega \) 16° \(\Omega 57'36 \) 24° \(\Omega 15'07 \) 21° \(\Omega 35'51 \) 18° \(\Omega 18'35 \) 15° \(\Omega 42'44 \) 15° \(\Omega 24'51 \) 9° \(\Omega 50'31 \)	1°30'22 1.33265 AU 27°25'01 0.63910 AU -2°59'50 2°58'08	morning set superior conj minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set	3404 Jul 08 10:43 3404 Jul 09 12:51 3404 Jul 16 11:45 3404 Jul 16 09:23 3404 Jul 17 12:42 3404 Jul 18 17:28 3404 Jul 23 13:27 3404 Aug 02 21:20 3404 Aug 14 20:13 3404 Aug 24 13:44 3404 Aug 24 21:15 3404 Sep 07 09:22 3404 Sep 14 13:34 3404 Sep 18 03:58	7°\$43'10 10°\$00'20 25°\$06'39 24°\$53'42 27°\$23'16 0°\$\Omega\$ 10°\$\Omega\$16'23 0°\$\mathbf{m}\$ 18°\$\mathbf{m}\$28'05 29°\$\mathbf{m}\$42'23 0°\$\mathbf{n}\$ 6°\$\mathbf{n}\$57'28 4°\$\mathbf{n}\$32'42 1°\$\mathbf{n}\$42'35	1°15'17 1.32482 AU 27°18'35 0.62091 AU
minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node	3403 Aug 01 23:11 3403 Aug 04 05:20 3403 Aug 09 12:05 3403 Aug 11 14:35 3403 Aug 28 23:12 3403 Aug 29 06:40 3403 Sep 12 05:32 3403 Sep 25 19:40 3403 Oct 02 22:55 3403 Oct 06 15:35 3403 Oct 09 03:55 3403 Oct 09 08:49 3403 Oct 15 19:58 3403 Oct 18 08:17 3403 Oct 18 12:51	10° \(\Omega 00'32 \) 14° \(\Omega 51'20 \) 25° \(\Omega 49'32 \) 0° \(\Omega \) 29° \(\Omega 33'01 \) 0° \(\Omega \) 16° \(\Omega 57'36 \) 24° \(\Omega 15'07 \) 21° \(\Omega 35'51 \) 18° \(\Omega 18'35 \) 15° \(\Omega 42'44 \) 15° \(\Omega 21'51 \) 9° \(\Omega 50'31 \) 9° \(\Omega 50'42 \)	1°30'22 1.33265 AU 27°25'01 0.63910 AU -2°59'50 2°58'08	morning set superior conj minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj	3404 Jul 08 10:43 3404 Jul 09 12:51 3404 Jul 16 11:45 3404 Jul 16 09:23 3404 Jul 17 12:42 3404 Jul 18 17:28 3404 Jul 23 13:27 3404 Aug 02 21:20 3404 Aug 14 20:13 3404 Aug 24 13:44 3404 Aug 24 21:15 3404 Sep 07 09:22 3404 Sep 14 13:34 3404 Sep 18 03:58 3404 Sep 20 00:52	7°\$43'10 10°\$00'20 25°\$06'39 24°\$53'42 27°\$23'16 0°\$\Omega\$ 10°\$\Omega\$16'23 0°\$\mathbf{m}\$ 18°\$\mathbf{m}\$28'05 29°\$\mathbf{m}\$42'23 0°\$\mathbf{a}\$ 4°\$\mathbf{a}\$32'42 1°\$\mathbf{a}\$42'35 30°\$\mathbf{m}\$	1°15'17 1.32482 AU 27°18'35 0.62091 AU -3°56'06
minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el	3403 Aug 01 23:11 3403 Aug 04 05:20 3403 Aug 09 12:05 3403 Aug 11 14:35 3403 Aug 28 23:12 3403 Aug 29 06:40 3403 Sep 12 05:32 3403 Sep 25 19:40 3403 Oct 02 22:55 3403 Oct 09 03:55 3403 Oct 09 08:49 3403 Oct 15 19:58 3403 Oct 18 08:17 3403 Oct 18 12:51 3403 Oct 24 21:09 3403 Nov 05 10:32	10° \(\Omega 00'32 \) 14° \(\Omega 51'20 \) 25° \(\Omega 49'32 \) 0° \(\Omega \) 29° \(\Omega 33'01 \) 0° \(\Omega \) 16° \(\Omega 57'36 \) 24° \(\Omega 15'07 \) 21° \(\Omega 35'51 \) 18° \(\Omega 18'35 \) 15° \(\Omega 42'44 \) 15° \(\Omega 30'02 \) 10° \(\Omega 21'51 \) 9° \(\Omega 50'31 \) 9° \(\Omega 50'42 \) 13° \(\Omega 15'48 \) 0° \(\Omega 6 \)	1°30'22 1.33265 AU 27°25'01 0.63910 AU -2°59'50 2°58'08	morning set superior conj minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong	3404 Jul 08 10:43 3404 Jul 09 12:51 3404 Jul 16 09:23 3404 Jul 16 09:23 3404 Jul 17 12:42 3404 Jul 18 17:28 3404 Jul 23 13:27 3404 Aug 02 21:20 3404 Aug 14 20:13 3404 Aug 24 13:44 3404 Aug 24 21:15 3404 Sep 07 09:22 3404 Sep 14 13:34 3404 Sep 18 03:58 3404 Sep 20 00:52 3404 Sep 21 03:35 3404 Sep 21 09:21	7°\$43'10 10°\$00'20 25°\$06'39 24°\$53'42 27°\$23'16 0°\$\Omega\$ 10°\$\Omega\$16'23 0°\$\mathred{m}\$ 18°\$\mathred{m}\$28'05 29°\$\mathred{m}\$42'23 0°\$\mathred{m}\$ 4°\$\mathred{m}\$32'42 1°\$\mathred{m}\$42'35 30°\$\mathred{m}\$ 28°\$\$\mathred{m}\$57'56 28°\$\$\mathred{m}\$44'39	1°15'17 1.32482 AU 27°18'35 0.62091 AU -3°56'06
minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node	3403 Aug 01 23:11 3403 Aug 04 05:20 3403 Aug 09 12:05 3403 Aug 11 14:35 3403 Aug 28 23:12 3403 Aug 29 06:40 3403 Sep 12 05:32 3403 Sep 25 19:40 3403 Oct 02 22:55 3403 Oct 06 15:35 3403 Oct 09 03:55 3403 Oct 19 08:49 3403 Oct 15 19:58 3403 Oct 18 08:17 3403 Oct 18 12:51 3403 Oct 24 21:09	10° \(\Omega 00'32 \) 14° \(\Omega 51'20 \) 25° \(\Omega 49'32 \) 0° \(\Omega \) 29° \(\Omega 33'01 \) 0° \(\Omega \) 16° \(\Omega 57'36 \) 24° \(\Omega 15'07 \) 21° \(\Omega 35'51 \) 18° \(\Omega 18'35 \) 15° \(\Omega 42'44 \) 15° \(\Omega 21'51 \) 9° \(\Omega 50'31 \) 9° \(\Omega 50'42 \) 13° \(\Omega 15'48 \)	1°30'22 1.33265 AU 27°25'01 0.63910 AU -2°59'50 2°58'08	morning set superior conj minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise	3404 Jul 08 10:43 3404 Jul 09 12:51 3404 Jul 16 11:45 3404 Jul 16 09:23 3404 Jul 17 12:42 3404 Jul 18 17:28 3404 Jul 23 13:27 3404 Aug 02 21:20 3404 Aug 14 20:13 3404 Aug 24 13:44 3404 Aug 24 21:15 3404 Sep 07 09:22 3404 Sep 14 13:34 3404 Sep 18 03:58 3404 Sep 20 00:52 3404 Sep 21 03:35 3404 Sep 21 09:21 3404 Sep 28 06:50	7°\$43'10 10°\$00'20 25°\$06'39 24°\$53'42 27°\$23'16 0°\$\Omega\$ 10°\$\Omega\$16'23 0°\$\mathred{m}\$ 18°\$\mathred{m}\$28'05 29°\$\mathred{m}\$42'23 0°\$\mathred{m}\$ 4°\$\mathred{m}\$32'42 1°\$\mathred{m}\$42'35 30°\$\mathred{m}\$57'56 28°\$\mathred{m}\$44'39 23°\$\mathred{m}\$56'11	1°15'17 1.32482 AU 27°18'35 0.62091 AU -3°56'06
minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el morning set	3403 Aug 01 23:11 3403 Aug 04 05:20 3403 Aug 09 12:05 3403 Aug 11 14:35 3403 Aug 28 23:12 3403 Aug 29 06:40 3403 Sep 12 05:32 3403 Sep 25 19:40 3403 Oct 02 22:55 3403 Oct 09 03:55 3403 Oct 09 08:49 3403 Oct 15 19:58 3403 Oct 18 08:17 3403 Oct 18 12:51 3403 Oct 24 21:09 3403 Nov 05 10:32 3403 Nov 10 16:27	10° \(\Omega 00'32 \) 14° \(\Omega 51'20 \) 25° \(\Omega 49'32 \) 0° \(\Omega \) 29° \(\Omega 33'01 \) 0° \(\Omega \) 16° \(\Omega 57'36 \) 24° \(\Omega 15'07 \) 21° \(\Omega 35'51 \) 18° \(\Omega 18'35 \) 15° \(\Omega 42'44 \) 15° \(\Omega 30'02 \) 10° \(\Omega 21'51 \) 9° \(\Omega 50'31 \) 9° \(\Omega 50'42 \) 13° \(\Omega 15'48 \) 0° \(\Omega \) 8° \(\Omega 8.8'46 \)	1°30'22 1.33265 AU 27°25'01 0.63910 AU -2°59'50 2°58'08	morning set superior conj minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct	3404 Jul 08 10:43 3404 Jul 09 12:51 3404 Jul 16 11:45 3404 Jul 16 09:23 3404 Jul 17 12:42 3404 Jul 18 17:28 3404 Jul 23 13:27 3404 Aug 02 21:20 3404 Aug 14 20:13 3404 Aug 24 13:44 3404 Aug 24 21:15 3404 Sep 07 09:22 3404 Sep 14 13:34 3404 Sep 18 03:58 3404 Sep 20 00:52 3404 Sep 21 03:35 3404 Sep 21 09:21 3404 Sep 28 06:50 3404 Sep 30 16:05	7°\$43'10 10°\$00'20 25°\$06'39 24°\$53'42 27°\$23'16 0°\$\Omega\$ 10°\$\Omega\$16'23 0°\$\Omega\$ 18°\$\Omega\$28'05 29°\$\Omega\$42'23 0°\$\Omega\$ 6°\$\Omega\$57'28 4°\$\Omega\$32'42 1°\$\Omega\$42'35 30°\$\Omega\$ 28°\$\Omega\$57'56 28°\$\Omega\$44'39 23°\$\Omega\$56'11 23°\$\Omega\$31'21	1°15'17 1.32482 AU 27°18'35 0.62091 AU -3°56'06
minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el morning set	3403 Aug 01 23:11 3403 Aug 04 05:20 3403 Aug 09 12:05 3403 Aug 11 14:35 3403 Aug 28 23:12 3403 Aug 29 06:40 3403 Sep 12 05:32 3403 Sep 25 19:40 3403 Oct 02 22:55 3403 Oct 09 03:55 3403 Oct 09 08:49 3403 Oct 15 19:58 3403 Oct 18 08:17 3403 Oct 18 12:51 3403 Oct 18 12:51 3403 Oct 24 21:09 3403 Nov 05 10:32 3403 Nov 10 16:27	10° \(\Omega 00'32 \) 14° \(\Omega 51'20 \) 25° \(\Omega 49'32 \) 0° \(\Omega \) 29° \(\Omega 33'01 \) 0° \(\Omega \) 16° \(\Omega 57'36 \) 24° \(\Omega 15'07 \) 21° \(\Omega 35'51 \) 18° \(\Omega 18'35 \) 15° \(\Omega 42'44 \) 15° \(\Omega 30'02 \) 10° \(\Omega 21'51 \) 9° \(\Omega 50'31 \) 9° \(\Omega 50'42 \) 13° \(\Omega 15'48 \) 0° \(\Omega \) 8° \(\Omega 58'46 \) 0° \(\Z^19'24 \)	1°30'22 1.33265 AU 27°25'01 0.63910 AU -2°59'50 2°58'08 17°53'07	morning set superior conj minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node	3404 Jul 08 10:43 3404 Jul 09 12:51 3404 Jul 16 11:45 3404 Jul 16 09:23 3404 Jul 17 12:42 3404 Jul 18 17:28 3404 Jul 23 13:27 3404 Aug 02 21:20 3404 Aug 14 20:13 3404 Aug 24 13:44 3404 Aug 24 21:15 3404 Sep 07 09:22 3404 Sep 14 13:34 3404 Sep 18 03:58 3404 Sep 20 00:52 3404 Sep 21 03:35 3404 Sep 21 09:21 3404 Sep 28 06:50 3404 Sep 30 16:05 3404 Oct 04 09:56	7°\$43'10 10°\$00'20 25°\$06'39 24°\$53'42 27°\$23'16 0°\$\Omega\$ 10°\$\Omega\$16'23 0°\$\Omega\$ 18°\$\Omega\$28'05 29°\$\Omega\$42'23 0°\$\Omega\$ 6°\$\Omega\$57'28 4°\$\Omega\$32'42 1°\$\Omega\$42'35 30°\$\Omega\$ 28°\$\Omega\$57'56 28°\$\Omega\$44'39 23°\$\Omega\$56'11 23°\$\Omega\$31'21 24°\$\Omega\$34'32	1°15'17 1.32482 AU 27°18'35 0.62091 AU -3°56'06 3°54'33
minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el morning set superior conj minimum elong	3403 Aug 01 23:11 3403 Aug 04 05:20 3403 Aug 09 12:05 3403 Aug 11 14:35 3403 Aug 28 23:12 3403 Aug 29 06:40 3403 Sep 12 05:32 3403 Sep 25 19:40 3403 Oct 02 22:55 3403 Oct 09 03:55 3403 Oct 09 03:55 3403 Oct 15 19:58 3403 Oct 15 19:58 3403 Oct 18 08:17 3403 Oct 18 12:51 3403 Oct 24 21:09 3403 Nov 05 10:32 3403 Nov 10 16:27	10° № 000'32 14° № 51'20 25° № 49'32 0° № 29° № 33'01 0° ₾ 16° ₾ 57'36 24° ₾ 15'07 21° ₾ 35'51 18° ₾ 18'35 15° ₾ 42'44 15° ₾ 30'02 10° ₾ 21'51 9° ₾ 50'31 9° ₾ 50'42 13° ₾ 15'48 0° № 8° № 58'46	1°30'22 1.33265 AU 27°25'01 0.63910 AU -2°59'50 2°58'08	morning set superior conj minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct	3404 Jul 08 10:43 3404 Jul 09 12:51 3404 Jul 16 11:45 3404 Jul 16 09:23 3404 Jul 17 12:42 3404 Jul 18 17:28 3404 Jul 23 13:27 3404 Aug 02 21:20 3404 Aug 14 20:13 3404 Aug 24 13:44 3404 Aug 24 21:15 3404 Sep 07 09:22 3404 Sep 14 13:34 3404 Sep 18 03:58 3404 Sep 20 00:52 3404 Sep 21 03:35 3404 Sep 21 09:21 3404 Sep 28 06:50 3404 Sep 30 16:05 3404 Oct 04 09:56 3404 Oct 07 12:50	7°\$43'10 10°\$00'20 25°\$06'39 24°\$53'42 27°\$23'16 0°\$\Omega\$ 10°\$\Omega\$16'23 0°\$\Omega\$ 6°\$\Omega\$57'28 4°\$\Omega\$32'42 1°\$\Omega\$42'35 30°\$\Omega\$ 28°\$\Omega\$57'56 28°\$\Omega\$4'39 23°\$\Omega\$56'11 23°\$\Omega\$31'21 24°\$\Omega\$43'32 27°\$\Omega\$00'01	1°15'17 1.32482 AU 27°18'35 0.62091 AU -3°56'06
minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el morning set superior conj minimum elong	3403 Aug 01 23:11 3403 Aug 04 05:20 3403 Aug 09 12:05 3403 Aug 11 14:35 3403 Aug 28 23:12 3403 Aug 29 06:40 3403 Sep 12 05:32 3403 Sep 25 19:40 3403 Oct 02 22:55 3403 Oct 06 15:35 3403 Oct 09 08:49 3403 Oct 15 19:58 3403 Oct 18 08:17 3403 Oct 18 12:51 3403 Oct 24 21:09 3403 Nov 05 10:32 3403 Nov 10 16:27	10° \(\Omega 00'32 \) 14° \(\Omega 51'20 \) 25° \(\Omega 49'32 \) 0° \(\mathbf{m} \) 29° \(\mathbf{m} 33'01 \) 0° \(\omega \) 16° \(\omega 57'36 \) 24° \(\omega 15'07 \) 21° \(\omega 35'51 \) 18° \(\omega 18'35 \) 15° \(\omega 42'44 \) 15° \(\omega 30'02 \) 10° \(\omega 21'51 \) 9° \(\omega 50'31 \) 9° \(\omega 50'42 \) 13° \(\omega 15'48 \) 0° \(\mathbf{m} \) 8° \(\mathbf{m} 58'46 \) 0° \(\nabla 19'24 \) 0° \(\nabla 19'24 \) 0° \(\nabla 19'24 \) 0° \(\nabla 19'30'8 \)	1°30'22 1.33265 AU 27°25'01 0.63910 AU -2°59'50 2°58'08 17°53'07	morning set superior conj minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el	3404 Jul 08 10:43 3404 Jul 09 12:51 3404 Jul 16 09:23 3404 Jul 17 12:42 3404 Jul 18 17:28 3404 Jul 18 17:28 3404 Jul 23 13:27 3404 Aug 02 21:20 3404 Aug 14 20:13 3404 Aug 24 21:15 3404 Sep 07 09:22 3404 Sep 14 13:34 3404 Sep 18 03:58 3404 Sep 20 00:52 3404 Sep 21 03:35 3404 Sep 21 09:21 3404 Sep 28 06:50 3404 Sep 30 16:05 3404 Oct 04 09:56 3404 Oct 07 12:50 3404 Oct 10 04:16	7°\$43'10 10°\$00'20 25°\$06'39 24°\$53'42 27°\$23'16 0°\$\Omega\$ 10°\$\Omega\$16'23 0°\$\Omega\$ 6°\$\Omega\$57'28 4°\$\Omega\$32'42 1°\$\Omega\$42'35 30°\$\Omega\$ 28°\$\Omega\$57'56 28°\$\Omega\$42'39 23°\$\Omega\$56'11 23°\$\Omega\$31'21 24°\$\Omega\$34'32 27°\$\Omega\$00'01 0°\$\Omega\$	1°15'17 1.32482 AU 27°18'35 0.62091 AU -3°56'06 3°54'33
minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el morning set superior conj minimum elong	3403 Aug 01 23:11 3403 Aug 04 05:20 3403 Aug 09 12:05 3403 Aug 11 14:35 3403 Aug 28 23:12 3403 Aug 29 06:40 3403 Sep 12 05:32 3403 Sep 25 19:40 3403 Oct 02 22:55 3403 Oct 09 03:55 3403 Oct 09 08:49 3403 Oct 15 19:58 3403 Oct 18 08:17 3403 Oct 18 12:51 3403 Oct 24 21:09 3403 Nov 05 10:32 3403 Nov 10 16:27	10° \(\O 00'32 \) 14° \(\O 51'20 \) 25° \(\O 49'32 \) 0° \(\Pm \) 29° \(\Pm \) 33'01 0° \(\O \) 16° \(\O 57'36 \) 24° \(\O 15'07 \) 21° \(\O 35'51 \) 18° \(\O 18'35 \) 15° \(\O 42'44 \) 15° \(\O 30'02 \) 10° \(\O 21'51 \) 9° \(\O 50'31 \) 9° \(\O 50'31 \) 9° \(\O 50'42 \) 13° \(\O 15'48 \) 0° \(\O 15'58 \) 13' \(\O 15'48 \) 0° \(\O 15'58 \) 0° \(\O 15'58 \) 14' \(\O 15'58 \) 0° \(\O 15'58 \)	1°30'22 1.33265 AU 27°25'01 0.63910 AU -2°59'50 2°58'08 17°53'07	morning set superior conj minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node	3404 Jul 08 10:43 3404 Jul 09 12:51 3404 Jul 16 09:23 3404 Jul 16 09:23 3404 Jul 17 12:42 3404 Jul 18 17:28 3404 Jul 23 13:27 3404 Aug 02 21:20 3404 Aug 14 20:13 3404 Aug 24 21:15 3404 Sep 07 09:22 3404 Sep 14 13:34 3404 Sep 18 03:58 3404 Sep 20 00:52 3404 Sep 21 03:35 3404 Sep 21 09:21 3404 Sep 21 09:21 3404 Sep 28 06:50 3404 Sep 30 16:05 3404 Oct 04 09:56 3404 Oct 07 12:50 3404 Oct 10 04:16 3404 Oct 23 11:08	7°\$43'10 10°\$00'20 25°\$06'39 24°\$53'42 27°\$23'16 0°\$\Omega\$ 10°\$\Omega\$16'23 0°\$\Omega\$ 6°\$\Omega\$57'28 4°\$\Omega\$32'42 1°\$\Omega\$42'35 30°\$\Omega\$ 28°\$\Omega\$57'56 28°\$\Omega\$42'35 30°\$\Omega\$ 23°\$\Omega\$56'11 23°\$\Omega\$31'21 24°\$\Omega\$34'32 27°\$\Omega\$00'01 0°\$\Omega\$ 21°\$\Omega\$55'19	1°15'17 1.32482 AU 27°18'35 0.62091 AU -3°56'06 3°54'33
minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el morning set superior conj minimum elong behind sun begin behind sun end	3403 Aug 01 23:11 3403 Aug 04 05:20 3403 Aug 09 12:05 3403 Aug 11 14:35 3403 Aug 28 23:12 3403 Aug 29 06:40 3403 Sep 12 05:32 3403 Sep 25 19:40 3403 Oct 02 22:55 3403 Oct 09 03:55 3403 Oct 09 08:49 3403 Oct 15 19:58 3403 Oct 18 08:17 3403 Oct 18 12:51 3403 Oct 18 12:51 3403 Oct 24 21:09 3403 Nov 05 10:32 3403 Nov 10 16:27 3403 Nov 23 09:15 3403 Nov 23 02:49 3403 Nov 23 10:26 3403 Nov 23 02:49 3403 Nov 23 02:49 3403 Nov 23 04:30	10° \(\Omega 00'32 \) 14° \(\Omega 51'20 \) 25° \(\Omega 49'32 \) 0° \(\mathbf{m} \) 29° \(\mathbf{m} 33'01 \) 0° \(\Omega \) 16° \(\Omega 57'36 \) 24° \(\Omega 15'07 \) 21° \(\Omega 35'51 \) 18° \(\Omega 18'35 \) 15° \(\Omega 42'44 \) 15° \(\Omega 30'02 \) 10° \(\Omega 21'51 \) 9° \(\Omega 50'31 \) 9° \(\Omega 50'42 \) 13° \(\Omega 15'48 \) 0° \(\mathbf{m} \) 8° \(\mathbf{m} 58'46 \) 0° \(\mathbf{m} \) 0° \(\mathbf{m} 19'24 \) 0° \(\mathbf{m} 24'13 \) 29° \(\mathbf{m} .53'08 \) 0° \(\mathbf{m} \) 0° \(\mathbf{m} \)	1°30'22 1.33265 AU 27°25'01 0.63910 AU -2°59'50 2°58'08 17°53'07	morning set superior conj minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el	3404 Jul 08 10:43 3404 Jul 09 12:51 3404 Jul 16 09:23 3404 Jul 17 12:42 3404 Jul 18 17:28 3404 Jul 18 17:28 3404 Jul 23 13:27 3404 Aug 02 21:20 3404 Aug 14 20:13 3404 Aug 24 21:15 3404 Sep 07 09:22 3404 Sep 14 13:34 3404 Sep 18 03:58 3404 Sep 20 00:52 3404 Sep 21 03:35 3404 Sep 21 09:21 3404 Sep 28 06:50 3404 Sep 30 16:05 3404 Oct 04 09:56 3404 Oct 07 12:50 3404 Oct 10 04:16	7°\$43'10 10°\$00'20 25°\$06'39 24°\$53'42 27°\$23'16 0°\$\Omega\$ 10°\$\Omega\$16'23 0°\$\Omega\$ 6°\$\Omega\$57'28 4°\$\Omega\$32'42 1°\$\Omega\$42'35 30°\$\Omega\$ 28°\$\Omega\$57'56 28°\$\Omega\$42'39 23°\$\Omega\$56'11 23°\$\Omega\$31'21 24°\$\Omega\$34'32 27°\$\Omega\$00'01 0°\$\Omega\$	1°15'17 1.32482 AU 27°18'35 0.62091 AU -3°56'06 3°54'33
minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el morning set superior conj minimum elong	3403 Aug 01 23:11 3403 Aug 04 05:20 3403 Aug 09 12:05 3403 Aug 11 14:35 3403 Aug 28 23:12 3403 Aug 29 06:40 3403 Sep 12 05:32 3403 Sep 25 19:40 3403 Oct 02 22:55 3403 Oct 09 03:55 3403 Oct 09 08:49 3403 Oct 15 19:58 3403 Oct 18 08:17 3403 Oct 18 12:51 3403 Oct 24 21:09 3403 Nov 05 10:32 3403 Nov 10 16:27	10° \(\O 00'32 \) 14° \(\O 51'20 \) 25° \(\O 49'32 \) 0° \(\Pm \) 29° \(\Pm \) 33'01 0° \(\O \) 16° \(\O 57'36 \) 24° \(\O 15'07 \) 21° \(\O 35'51 \) 18° \(\O 18'35 \) 15° \(\O 42'44 \) 15° \(\O 30'02 \) 10° \(\O 21'51 \) 9° \(\O 50'31 \) 9° \(\O 50'31 \) 9° \(\O 50'42 \) 13° \(\O 15'48 \) 0° \(\O 15'58 \) 13' \(\O 15'48 \) 0° \(\O 15'58 \) 0° \(\O 15'58 \) 14' \(\O 15'58 \) 0° \(\O 15'58 \)	1°30'22 1.33265 AU 27°25'01 0.63910 AU -2°59'50 2°58'08 17°53'07	morning set superior conj minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el	3404 Jul 08 10:43 3404 Jul 09 12:51 3404 Jul 16 09:23 3404 Jul 16 09:23 3404 Jul 17 12:42 3404 Jul 18 17:28 3404 Jul 23 13:27 3404 Aug 02 21:20 3404 Aug 14 20:13 3404 Aug 24 21:15 3404 Sep 07 09:22 3404 Sep 14 13:34 3404 Sep 18 03:58 3404 Sep 20 00:52 3404 Sep 21 03:35 3404 Sep 21 09:21 3404 Sep 21 09:21 3404 Sep 28 06:50 3404 Sep 30 16:05 3404 Oct 04 09:56 3404 Oct 07 12:50 3404 Oct 10 04:16 3404 Oct 23 11:08	7°\$43'10 10°\$00'20 25°\$06'39 24°\$53'42 27°\$23'16 0°\$\Omega\$ 10°\$\Omega\$16'23 0°\$\Omega\$ 6°\$\Omega\$57'28 4°\$\Omega\$32'42 1°\$\Omega\$42'35 30°\$\Omega\$ 28°\$\Omega\$57'56 28°\$\Omega\$42'35 30°\$\Omega\$ 23°\$\Omega\$56'11 23°\$\Omega\$31'21 24°\$\Omega\$34'32 27°\$\Omega\$00'01 0°\$\Omega\$ 21°\$\Omega\$55'19	1°15'17 1.32482 AU 27°18'35 0.62091 AU -3°56'06 3°54'33
minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el morning set superior conj minimum elong behind sun begin behind sun end	3403 Aug 01 23:11 3403 Aug 04 05:20 3403 Aug 09 12:05 3403 Aug 11 14:35 3403 Aug 28 23:12 3403 Aug 29 06:40 3403 Sep 12 05:32 3403 Sep 25 19:40 3403 Oct 02 22:55 3403 Oct 09 03:55 3403 Oct 09 08:49 3403 Oct 15 19:58 3403 Oct 18 08:17 3403 Oct 18 12:51 3403 Oct 18 12:51 3403 Oct 24 21:09 3403 Nov 05 10:32 3403 Nov 10 16:27 3403 Nov 23 09:15 3403 Nov 23 02:49 3403 Nov 23 10:26 3403 Nov 23 02:49 3403 Nov 23 02:49 3403 Nov 23 04:30	10° \(\Omega 00'32 \) 14° \(\Omega 51'20 \) 25° \(\Omega 49'32 \) 0° \(\mathbf{m} \) 29° \(\mathbf{m} 33'01 \) 0° \(\Omega \) 16° \(\Omega 57'36 \) 24° \(\Omega 15'07 \) 21° \(\Omega 35'51 \) 18° \(\Omega 18'35 \) 15° \(\Omega 42'44 \) 15° \(\Omega 30'02 \) 10° \(\Omega 21'51 \) 9° \(\Omega 50'31 \) 9° \(\Omega 50'42 \) 13° \(\Omega 15'48 \) 0° \(\mathbf{m} \) 8° \(\mathbf{m} 58'46 \) 0° \(\mathbf{m} \) 0° \(\mathbf{m} 19'24 \) 0° \(\mathbf{m} 24'13 \) 29° \(\mathbf{m} .53'08 \) 0° \(\mathbf{m} \) 0° \(\mathbf{m} \)	1°30'22 1.33265 AU 27°25'01 0.63910 AU -2°59'50 2°58'08 17°53'07	morning set superior conj minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el	3404 Jul 08 10:43 3404 Jul 09 12:51 3404 Jul 16 09:23 3404 Jul 16 09:23 3404 Jul 17 12:42 3404 Jul 18 17:28 3404 Jul 23 13:27 3404 Aug 02 21:20 3404 Aug 14 20:13 3404 Aug 24 21:15 3404 Sep 07 09:22 3404 Sep 14 13:34 3404 Sep 18 03:58 3404 Sep 20 00:52 3404 Sep 21 03:35 3404 Sep 21 09:21 3404 Sep 21 09:21 3404 Sep 28 06:50 3404 Sep 30 16:05 3404 Oct 04 09:56 3404 Oct 07 12:50 3404 Oct 10 04:16 3404 Oct 23 11:08	7°\$43'10 10°\$00'20 25°\$06'39 24°\$53'42 27°\$23'16 0°\$\Omega\$ 10°\$\Omega\$16'23 0°\$\Omega\$ 6°\$\Omega\$57'28 4°\$\Omega\$32'42 1°\$\Omega\$42'35 30°\$\Omega\$ 28°\$\Omega\$57'56 28°\$\Omega\$42'35 30°\$\Omega\$ 23°\$\Omega\$56'11 23°\$\Omega\$31'21 24°\$\Omega\$34'32 27°\$\Omega\$00'01 0°\$\Omega\$ 21°\$\Omega\$55'19	1°15'17 1.32482 AU 27°18'35 0.62091 AU -3°56'06 3°54'33
minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el morning set superior conj minimum elong behind sun begin behind sun end desc. node	3403 Aug 01 23:11 3403 Aug 04 05:20 3403 Aug 09 12:05 3403 Aug 11 14:35 3403 Aug 28 23:12 3403 Aug 29 06:40 3403 Sep 12 05:32 3403 Sep 25 19:40 3403 Oct 02 22:55 3403 Oct 09 03:55 3403 Oct 09 08:49 3403 Oct 15 19:58 3403 Oct 18 08:17 3403 Oct 18 12:51 3403 Oct 18 12:51 3403 Oct 24 21:09 3403 Nov 05 10:32 3403 Nov 10 16:27 3403 Nov 23 09:15 3403 Nov 23 02:49 3403 Nov 23 02:49 3403 Nov 23 04:30 3403 Nov 24 22:31	10° \(\O 00'32 \) 14° \(\O 51'20 \) 25° \(\O 49'32 \) 0° \(\D \) 29° \(\D 33'01 \) 0° \(\O \) 16° \(\O 57'36 \) 24° \(\O 15'07 \) 21° \(\O 35'51 \) 18° \(\O 18'35 \) 15° \(\O 42'44 \) 15° \(\O 30'02 \) 10° \(\O 21'51 \) 9° \(\O 50'42 \) 13° \(\O 50'42 \) 13° \(\O 50'42 \) 13° \(\O 15'48 \) 0° \(\D 7 \) 8° \(\D 50'45 \) 0° \(\D 7 \) 29° \(\D 53'08 \) 0° \(\D 7 \) 2° \(\D 7 \) 2° \(\D 7 \) 55' 514 0° \(\D 7 \) 2° \(\D 7 \) 50' 53	1°30'22 1.33265 AU 27°25'01 0.63910 AU -2°59'50 2°58'08 17°53'07	morning set superior conj minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el morning set	3404 Jul 08 10:43 3404 Jul 09 12:51 3404 Jul 16 09:23 3404 Jul 16 09:23 3404 Jul 17 12:42 3404 Jul 18 17:28 3404 Jul 23 13:27 3404 Aug 02 21:20 3404 Aug 14 20:13 3404 Aug 24 13:44 3404 Aug 24 21:15 3404 Sep 07 09:22 3404 Sep 18 03:58 3404 Sep 18 03:58 3404 Sep 20 00:52 3404 Sep 21 03:35 3404 Sep 21 09:21 3404 Sep 28 06:50 3404 Sep 30 16:05 3404 Oct 04 09:56 3404 Oct 07 12:50 3404 Oct 10 04:16 3404 Oct 27 23:06	7°\$43'10 10°\$00'20 25°\$06'39 24°\$53'42 27°\$23'16 0°\$\Omega\$ 10°\$\Omega\$16'23 0°\$\mathbf{m}\$ 18°\$\mathbf{m}\$28'05 29°\$\mathbf{m}\$42'23 0°\$\mathbf{n}\$ 6°\$\mathbf{n}\$57'28 4°\$\mathbf{n}\$32'42 1°\$\mathbf{n}\$42'35 30°\$\mathbf{m}\$ 28°\$\mathbf{m}\$57'56 28°\$\mathbf{m}\$44'39 23°\$\mathbf{m}\$56'11 23°\$\mathbf{m}\$34'32 27°\$\mathbf{m}\$00'01 0°\$\mathbf{n}\$ 21°\$\mathbf{n}\$55'19 0°\$\mathbf{m}\$	1°15'17 1.32482 AU 27°18'35 0.62091 AU -3°56'06 3°54'33
minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el morning set superior conj minimum elong behind sun begin behind sun end desc. node max. Earth dist.	3403 Aug 01 23:11 3403 Aug 04 05:20 3403 Aug 09 12:05 3403 Aug 09 12:05 3403 Aug 11 14:35 3403 Aug 28 23:12 3403 Aug 29 06:40 3403 Sep 12 05:32 3403 Sep 25 19:40 3403 Oct 02 22:55 3403 Oct 09 03:55 3403 Oct 09 08:49 3403 Oct 15 19:58 3403 Oct 18 08:17 3403 Oct 18 12:51 3403 Oct 18 12:51 3403 Oct 24 21:09 3403 Nov 05 10:32 3403 Nov 10 16:27 3403 Nov 23 09:15 3403 Nov 23 02:49 3403 Nov 23 02:49 3403 Nov 23 04:30 3403 Nov 24 22:31 3403 Nov 29 00:24	10° \(\O 00'32 \) 14° \(\O 51'20 \) 25° \(\O 49'32 \) 0° \(\D \) 29° \(\D 33'01 \) 0° \(\O \) 16° \(\O 57'36 \) 24° \(\O 15'07 \) 21° \(\O 35'51 \) 18° \(\O 18'35 \) 15° \(\O 42'44 \) 15° \(\O 30'02 \) 10° \(\O 21'51 \) 9° \(\O 50'31 \) 9° \(\O 50'42 \) 13° \(\O 15'48 \) 0° \(\D 19'24 \) 0° \(\D 724'13 \) 29° \(\D 53'08 \) 0° \(\D 755'14 \) 0° \(\D 755'14 \) 0° \(\D 755'53 \) 9° \(\D 723'49 \)	1°30'22 1.33265 AU 27°25'01 0.63910 AU -2°59'50 2°58'08 17°53'07	morning set superior conj minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el morning set	3404 Jul 08 10:43 3404 Jul 09 12:51 3404 Jul 16 09:23 3404 Jul 16 09:23 3404 Jul 17 12:42 3404 Jul 18 17:28 3404 Jul 23 13:27 3404 Aug 02 21:20 3404 Aug 14 20:13 3404 Aug 24 13:44 3404 Aug 24 21:15 3404 Sep 07 09:22 3404 Sep 14 13:34 3404 Sep 18 03:58 3404 Sep 20 00:52 3404 Sep 21 03:35 3404 Sep 21 09:21 3404 Sep 28 06:50 3404 Sep 30 16:05 3404 Oct 04 09:56 3404 Oct 07 12:50 3404 Oct 10 04:16 3404 Oct 27 23:06	7°\$43'10 10°\$00'20 25°\$06'39 24°\$53'42 27°\$23'16 0°\$\Omega\$ 10°\$\Omega\$16'23 0°\$\mathbf{m}\$ 18°\$\mathbf{m}\$28'05 29°\$\mathbf{m}\$42'23 0°\$\mathbf{n}\$ 4°\$\mathbf{n}\$23'42 1°\$\mathbf{n}\$42'35 30°\$\mathbf{m}\$ 28°\$\mathbf{m}\$57'56 28°\$\mathbf{m}\$44'39 23°\$\mathbf{m}\$56'11 23°\$\mathbf{m}\$31'21 24°\$\mathbf{m}\$34'32 27°\$\mathbf{m}\$00'01 0°\$\mathbf{n}\$ 21°\$\mathbf{n}\$55'19 0°\$\mathbf{m}\$	1°15'17 1.32482 AU 27°18'35 0.62091 AU -3°56'06 3°54'33 17°52'51
minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el morning set superior conj minimum elong behind sun begin behind sun end desc. node max. Earth dist.	3403 Aug 01 23:11 3403 Aug 04 05:20 3403 Aug 09 12:05 3403 Aug 09 12:05 3403 Aug 11 14:35 3403 Aug 28 23:12 3403 Aug 29 06:40 3403 Sep 12 05:32 3403 Sep 25 19:40 3403 Oct 02 22:55 3403 Oct 09 03:55 3403 Oct 09 08:49 3403 Oct 15 19:58 3403 Oct 18 08:17 3403 Oct 18 12:51 3403 Oct 18 12:51 3403 Oct 24 21:09 3403 Nov 05 10:32 3403 Nov 10 16:27 3403 Nov 23 09:15 3403 Nov 23 02:49 3403 Nov 23 02:49 3403 Nov 23 02:49 3403 Nov 24 22:31 3403 Nov 29 00:24 3403 Dec 09 07:21 3403 Dec 12 06:07	10° \(\alpha 00'32 \) 14° \(\alpha 51'20 \) 25° \(\alpha 49'32 \) 0° \(\mathbf{m} \) 29° \(\mathbf{m} \) 33'01 0° \(\omega \) 16° \(\omega 57'36 \) 24° \(\omega 15'07 \) 21° \(\omega 35'51 \) 18° \(\omega 42'44 \) 15° \(\omega 42'44 \) 15° \(\omega 21'51 \) 9° \(\omega 50'31 \) 9° \(\omega 50'42 \) 13° \(\omega 15'48 \) 0° \(\mathbf{m} \) 8° \(\mathbf{m} \) 58'46 0° \(\nabla 19'24 \) 0° \(\nabla 24'13 \) 29° \(\mathbf{m} \) 53'08 0° \(\nabla 25'51'14 \) 0° \(\nabla 2 \) 2° \(\nabla 50'53 \) 9° \(\nabla 23'49 \) 25° \(\nabla 28'52 \)	1°30'22 1.33265 AU 27°25'01 0.63910 AU -2°59'50 2°58'08 17°53'07	morning set superior conj minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el morning set	3404 Jul 08 10:43 3404 Jul 09 12:51 3404 Jul 16 09:23 3404 Jul 16 09:23 3404 Jul 17 12:42 3404 Jul 18 17:28 3404 Jul 23 13:27 3404 Aug 02 21:20 3404 Aug 14 20:13 3404 Aug 24 13:44 3404 Aug 24 21:15 3404 Sep 07 09:22 3404 Sep 14 13:34 3404 Sep 18 03:58 3404 Sep 20 00:52 3404 Sep 21 03:35 3404 Sep 21 09:21 3404 Sep 28 06:50 3404 Sep 30 16:05 3404 Oct 04 09:56 3404 Oct 07 12:50 3404 Oct 07 12:50 3404 Oct 10 04:16 3404 Oct 27 23:06 3404 Nov 03 08:26 3404 Nov 03 12:29 3404 Nov 10 14:40	7°\$43'10 10°\$00'20 25°\$06'39 24°\$53'42 27°\$23'16 0°\$\alpha\$ 10°\$\alpha\$16'23 0°\$\mathred{m}\$ 18°\$\mathred{m}\$28'05 29°\$\mathred{m}\$42'23 0°\$\mathred{m}\$ 6°\$\mathred{\Omega}\$57'28 4°\$\mathred{\Omega}\$32'42 1°\$\mathred{\Omega}\$42'35 30°\$\mathred{m}\$ 28°\$\mathred{m}\$57'56 28°\$\mathred{m}\$44'39 23°\$\mathred{m}\$56'11 23°\$\mathred{m}\$31'21 24°\$\mathred{m}\$34'32 27°\$\mathred{m}\$00'01 0°\$\mathred{\Omega}\$ 21°\$\mathred{\Omega}\$55'19 0°\$\mathred{m}\$ 11°\$\mathred{m}\$10'30 11°\$\mathred{m}\$127'48	1°15'17 1.32482 AU 27°18'35 0.62091 AU -3°56'06 3°54'33 17°52'51
minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el morning set superior conj minimum elong behind sun begin behind sun end desc. node max. Earth dist. evening rise	3403 Aug 01 23:11 3403 Aug 04 05:20 3403 Aug 09 12:05 3403 Aug 09 12:05 3403 Aug 11 14:35 3403 Aug 28 23:12 3403 Aug 29 06:40 3403 Sep 12 05:32 3403 Sep 25 19:40 3403 Oct 06 15:35 3403 Oct 09 03:55 3403 Oct 09 08:49 3403 Oct 15 19:58 3403 Oct 18 08:17 3403 Oct 18 12:51 3403 Oct 18 12:51 3403 Oct 24 21:09 3403 Nov 05 10:32 3403 Nov 10 16:27 3403 Nov 23 09:15 3403 Nov 23 02:49 3403 Nov 23 02:49 3403 Nov 23 02:49 3403 Nov 23 04:30 3403 Nov 24 22:31 3403 Nov 29 00:24 3403 Dec 09 07:21 3403 Dec 12 06:07 3404 Jan 01 22:56	10° € 00'32 14° € 51'20 25° € 49'32 0° ₱ 29° ₱ 33'01 0° ₽ 16° ₽ 57'36 24° ₽ 15'07 21° P 35'51 18° P 18'35 15° P 42'44 15° P 30'02 10° P 21'51 9° P 50'42 13° P 15'48 0° ₱ 8° ₱ 58'46 0° ₱ 19'24 0° ₱ 24'13 29° ₱ 53'08 0° ₱ 55'14 0° ₱ 23'49 25° ₱ 23'49 25° ₱ 28'52 0° ₱ 0° ₱	1°30'22 1.33265 AU 27°25'01 0.63910 AU -2°59'50 2°58'08 17°53'07 0°10'40 0°10'30	morning set superior conj minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el morning set	3404 Jul 08 10:43 3404 Jul 09 12:51 3404 Jul 16 09:23 3404 Jul 17 12:42 3404 Jul 18 17:28 3404 Jul 18 17:28 3404 Jul 23 13:27 3404 Aug 02 21:20 3404 Aug 14 20:13 3404 Aug 24 13:44 3404 Sep 07 09:22 3404 Sep 14 13:34 3404 Sep 18 03:58 3404 Sep 20 00:52 3404 Sep 21 09:21 3404 Sep 21 09:21 3404 Sep 20 00:52 3404 Sep 21 09:21 3404 Sep 30 16:05 3404 Sep 30 16:05 3404 Oct 04 09:56 3404 Oct 07 12:50 3404 Oct 10 04:16 3404 Oct 23 11:08 3404 Nov 03 08:26 3404 Nov 03 12:29 3404 Nov 10 14:40 3404 Nov 10 19:33	7°\$43'10 10°\$00'20 25°\$06'39 24°\$53'42 27°\$23'16 0°\$\mathcal{\Omega}\$ 10°\$\mathcal{\Omega}\$16'23 0°\$\mathcal{\Omega}\$ 18°\$\mathcal{\Omega}\$28'05 29°\$\mathcal{\Omega}\$42'23 0°\$\mathcal{\Omega}\$ 4°\$\mathcal{\Omega}\$32'42 1°\$\mathcal{\Omega}\$42'35 30°\$\mathcal{\Omega}\$ 28°\$\mathcal{\Omega}\$57'56 28°\$\mathcal{\Omega}\$44'39 23°\$\mathcal{\Omega}\$56'11 23°\$\mathcal{\Omega}\$31'21 24°\$\mathcal{\Omega}\$34'32 27°\$\mathcal{\Omega}\$00'01 0°\$\mathcal{\Omega}\$ 21°\$\mathcal{\Omega}\$55'19 0°\$\mathcal{\Omega}\$ 11°\$\mathcal{\Omega}\$18'31 23°\$\mathcal{\Omega}\$38'24	1°15'17 1.32482 AU 27°18'35 0.62091 AU -3°56'06 3°54'33 17°52'51
minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el morning set superior conj minimum elong behind sun begin behind sun end desc. node max. Earth dist. evening rise	3403 Aug 01 23:11 3403 Aug 04 05:20 3403 Aug 09 12:05 3403 Aug 11 14:35 3403 Aug 28 23:12 3403 Aug 29 06:40 3403 Sep 12 05:32 3403 Sep 25 19:40 3403 Oct 02 22:55 3403 Oct 09 03:55 3403 Oct 09 03:55 3403 Oct 15 19:58 3403 Oct 18 08:17 3403 Oct 18 12:51 3403 Oct 18 12:51 3403 Oct 24 21:09 3403 Nov 05 10:32 3403 Nov 10 16:27 3403 Nov 23 09:15 3403 Nov 23 02:49 3403 Nov 23 02:49 3403 Nov 23 02:49 3403 Nov 23 02:49 3403 Nov 24 22:31 3403 Nov 29 00:24 3403 Dec 09 07:21 3403 Dec 12 06:07 3404 Jan 01 22:56 3404 Jan 06 08:45	10° \(\alpha 00'32 \) 14° \(\alpha 51'20 \) 25° \(\alpha 49'32 \) 0° \(\mathbf{m} \) 29° \(\mathbf{m} 33'01 \) 0° \(\alpha \) 16° \(\alpha 57'36 \) 24° \(\alpha 15'07 \) 21° \(\alpha 35'51 \) 18° \(\alpha 18'35 \) 15° \(\alpha 42'44 \) 15° \(\alpha 30'02 \) 10° \(\alpha 21'51 \) 9° \(\alpha 50'42 \) 13° \(\alpha 50'42 \) 13° \(\alpha 50'42 \) 13° \(\alpha 15'48 \) 0° \(\mathbf{m} \) 8° \(\mathbf{m} 58'46 \) 0° \(\mathbf{m} 19'24 \) 0° \(\mathbf{m} 22' \) 13' \(\alpha 19'24 \) 0° \(\mathbf{m} 22' \) 13' \(\alpha 19'24 \) 0° \(\mathbf{m} 23' \) 15' \(\mathbf{m} 30'	1°30'22 1.33265 AU 27°25'01 0.63910 AU -2°59'50 2°58'08 17°53'07 0°10'40 0°10'30	morning set superior conj minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el morning set superior conj minimum elong max. Earth dist. desc. node	3404 Jul 08 10:43 3404 Jul 09 12:51 3404 Jul 16 09:23 3404 Jul 17 12:42 3404 Jul 18 17:28 3404 Jul 18 17:28 3404 Jul 23 13:27 3404 Aug 02 21:20 3404 Aug 14 20:13 3404 Aug 24 13:44 3404 Aug 24 21:15 3404 Sep 07 09:22 3404 Sep 14 13:34 3404 Sep 18 03:58 3404 Sep 18 03:58 3404 Sep 20 00:52 3404 Sep 21 09:21 3404 Sep 21 09:21 3404 Sep 28 06:50 3404 Sep 30 16:05 3404 Sep 30 16:05 3404 Oct 04 09:56 3404 Oct 07 12:50 3404 Oct 07 12:50 3404 Oct 10 04:16 3404 Oct 23 11:08 3404 Nov 03 08:26 3404 Nov 03 08:26 3404 Nov 10 19:33 3404 Nov 10 19:33 3404 Nov 11 18:23	7°\$43'10 10°\$00'20 25°\$06'39 24°\$53'42 27°\$23'16 0°\$\mathbb{\alpha}\$ 10°\$\mathbb{\alpha}\$16'23 0°\$\mathbb{\mat	1°15'17 1.32482 AU 27°18'35 0.62091 AU -3°56'06 3°54'33 17°52'51
minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el morning set superior conj minimum elong behind sun begin behind sun end desc. node max. Earth dist. evening rise	3403 Aug 01 23:11 3403 Aug 04 05:20 3403 Aug 09 12:05 3403 Aug 09 12:05 3403 Aug 11 14:35 3403 Aug 28 23:12 3403 Aug 29 06:40 3403 Sep 12 05:32 3403 Sep 25 19:40 3403 Oct 06 15:35 3403 Oct 09 03:55 3403 Oct 09 08:49 3403 Oct 15 19:58 3403 Oct 18 08:17 3403 Oct 18 12:51 3403 Oct 18 12:51 3403 Oct 24 21:09 3403 Nov 05 10:32 3403 Nov 10 16:27 3403 Nov 23 09:15 3403 Nov 23 02:49 3403 Nov 23 02:49 3403 Nov 23 02:49 3403 Nov 23 04:30 3403 Nov 24 22:31 3403 Nov 29 00:24 3403 Dec 09 07:21 3403 Dec 12 06:07 3404 Jan 01 22:56	10° € 00'32 14° € 51'20 25° € 49'32 0° ₱ 29° ₱ 33'01 0° ₽ 16° ₽ 57'36 24° ₽ 15'07 21° P 35'51 18° P 18'35 15° P 42'44 15° P 30'02 10° P 21'51 9° P 50'42 13° P 15'48 0° ₱ 8° ₱ 58'46 0° ₱ 19'24 0° ₱ 24'13 29° ₱ 53'08 0° ₱ 55'14 0° ₱ 23'49 25° ₱ 23'49 25° ₱ 28'52 0° ₱ 0° ₱	1°30'22 1.33265 AU 27°25'01 0.63910 AU -2°59'50 2°58'08 17°53'07 0°10'40 0°10'30	morning set superior conj minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el morning set	3404 Jul 08 10:43 3404 Jul 09 12:51 3404 Jul 16 09:23 3404 Jul 17 12:42 3404 Jul 18 17:28 3404 Jul 18 17:28 3404 Jul 23 13:27 3404 Aug 02 21:20 3404 Aug 14 20:13 3404 Aug 24 13:44 3404 Sep 07 09:22 3404 Sep 14 13:34 3404 Sep 18 03:58 3404 Sep 20 00:52 3404 Sep 21 09:21 3404 Sep 21 09:21 3404 Sep 20 00:52 3404 Sep 21 09:21 3404 Sep 30 16:05 3404 Sep 30 16:05 3404 Oct 04 09:56 3404 Oct 07 12:50 3404 Oct 10 04:16 3404 Oct 23 11:08 3404 Nov 03 08:26 3404 Nov 03 12:29 3404 Nov 10 14:40 3404 Nov 10 19:33	7°\$43'10 10°\$00'20 25°\$06'39 24°\$53'42 27°\$23'16 0°\$\mathcal{\Omega}\$ 10°\$\mathcal{\Omega}\$16'23 0°\$\mathcal{\Omega}\$ 18°\$\mathcal{\Omega}\$28'05 29°\$\mathcal{\Omega}\$42'23 0°\$\mathcal{\Omega}\$ 4°\$\mathcal{\Omega}\$32'42 1°\$\mathcal{\Omega}\$42'35 30°\$\mathcal{\Omega}\$ 28°\$\mathcal{\Omega}\$57'56 28°\$\mathcal{\Omega}\$44'39 23°\$\mathcal{\Omega}\$56'11 23°\$\mathcal{\Omega}\$31'21 24°\$\mathcal{\Omega}\$34'32 27°\$\mathcal{\Omega}\$00'01 0°\$\mathcal{\Omega}\$ 21°\$\mathcal{\Omega}\$55'19 0°\$\mathcal{\Omega}\$ 11°\$\mathcal{\Omega}\$18'31 23°\$\mathcal{\Omega}\$38'24	1°15'17 1.32482 AU 27°18'35 0.62091 AU -3°56'06 3°54'33 17°52'51

	2404 D 10 05 25	100=2000	21042116		2405 D 16 22 26	€0 = 10140	
evening max el	3404 Dec 19 05:35	18°₹39'39	21°43′16	evening set	3405 Dec 16 22:26	6°る18'48	
retrograde	3404 Dec 28 07:47	24° පි 04'10		asc. node	3405 Dec 18 06:13	5° る 03'46	
asc. node	3404 Dec 31 09:09	23° る 13'22		inferior conj	3405 Dec 22 07:31	29° ∡ 55'33	1°20'45
evening set	3405 Jan 01 15:27	22° る 21'36		minimum elong	3405 Dec 22 05:46	0° る 01'34	1°20'04
inferior conj	3405 Jan 06 23:45	16° る 04'00	2°05'49	min. Earth dist.	3405 Dec 21 23:41	0° る 22'32	0.67942 AU
minimum elong	3405 Jan 06 21:24	16° ප 12'10	2°05'00		3405 Dec 22 06:13	30°₽ ⋌	
min. Earth dist.	3405 Jan 07 02:57	15° る 52'54	0.67858 AU	morning rise	3405 Dec 27 12:59	23° ∡ ¹47′03	
morning rise	3405 Jan 12 03:11	9° ප 52'01		direct	3405 Dec 31 21:56	22° ∡ *01'46	
direct	3405 Jan 17 02:38	7° る 43'53		morning max el	3406 Jan 09 16:42	27° ∡ ¹09'10	21°30'32
morning max el	3405 Jan 27 02:41		22°55'40		3406 Jan 12 07:55	0°る	
desc. node	3405 Feb 06 18:45	26°る34'42	22 33 40	desc. node	3406 Jan 24 15:48	0 3 16° る 21'19	
desc. Hode	3405 Feb 09 06:33			desc. Hode	3406 Feb 02 20:38	0°≈	
		0° ≈					
	3405 Mar 01 00:23	0°) (morning set	3406 Feb 10 08:30	11° ≈ 38'39	
morning set	3405 Mar 02 14:15	2°) 35′59		max. Earth dist.	3406 Feb 17 02:15	22° ≈ 32'39	1.41951 AU
max. Earth dist.	3405 Mar 07 02:10	10° 升 11'35	1.39866 AU		3406 Feb 21 13:05	0° ∀	
superior conj	3405 Mar 14 19:56	23° ¥ 56′05	-1°53'18	superior conj	3406 Feb 24 14:49	5° ∺ 16′29	-2°05'42
minimum elong	3405 Mar 15 00:13	24°) 15′46	1°52'57	minimum elong	3406 Feb 24 16:35	5°) 24′06	2°05'39
	3405 Mar 18 02:28	$0^{\circ}\mathbf{\Upsilon}$		evening rise	3406 Mar 07 15:38	25°) €01'25	
evening rise	3405 Mar 24 12:54	12° Y 13′23		-	3406 Mar 10 09:10	0° Y	
asc. node	3405 Mar 29 08:28	21° Y 17'09		asc. node	3406 Mar 16 05:30	10° Y 16′20	
	3405 Apr 03 09:42	0°8		evening max el	3406 Mar 24 03:02	21° Υ '07'21	18°09'37
evening max el	3405 Apr 09 17:23	8° 8 13'50	18°29'31	retrograde	3406 Mar 30 21:58	24° Y '33'27	10 07 37
•			10 29 31	-			
retrograde	3405 Apr 17 07:28	11° 8 58'08		evening set	3406 Apr 02 12:15	24°Υ03'52	2000126
evening set	3405 Apr 19 15:23	11° 8 38'06		inferior conj	3406 Apr 09 06:58	19° Y 12'29	3°09'36
inferior conj	3405 Apr 27 03:06	7° 8 07'41	2°17'16	minimum elong	3406 Apr 09 09:54	19° Y ′05'42	3°09'05
minimum elong	3405 Apr 27 06:53	7° 8 00'10	2°16'13	min. Earth dist.	3406 Apr 12 14:19	16° Ƴ 10'31	0.60413 AU
min. Earth dist.	3405 Apr 30 13:24	4° 8 25'22	0.58254 AU	morning rise	3406 Apr 16 05:23	13° Y 24′05	
morning rise	3405 May 04 19:17	1° 8 41'57		direct	3406 Apr 22 20:25	11° Y 17'30	
desc. node	3405 May 05 17:54	1° 8 15'37		desc. node	3406 Apr 22 14:57	11° Ƴ 17'39	
direct	3405 May 10 18:03	0° 8 10'43		morning max el	3406 May 07 03:14	19° Ƴ 10′27	27°39'20
morning max el	3405 May 25 03:24	7° 8 51'49	26°50'58	Č	3406 May 16 07:17	0°8	
	3405 Jun 10 18:49	0°П			3406 Jun 03 12:58	0°II	
morning set	3405 Jun 23 22:52	24° ∏ 48'20		morning set	3406 Jun 08 05:28	9° ∏ 23'24	
•	3405 Jun 25 07:46	27° I I42'39		•	3406 Jun 12 04:48	17° Ⅱ 48'35	
asc. node		27 п 4239		asc. node			1 22122 411
	3405 Jun 26 09:21	0 39		max. Earth dist.	3406 Jun 14 11:26	22° ∏ 46′02	1.32132 AU
avmariar aani	3405 Jun 30 23:33	100602110	0056127	aumariar aani	3406 Jun 15 10:54	24° ∏ 54'49	0°33'40
superior conj		10°503'18	0°56'27	superior conj			
minimum elong	3405 Jun 30 21:26	9° © 51'35		minimum elong	3406 Jun 15 09:27	24° Ⅱ 46'51	0°33'22
max. Earth dist.	3405 Jun 30 23:59	10° © 05'40	1.32108 AU		3406 Jun 17 18:23	0∘ ©	
evening rise	3405 Jul 07 20:31	24° © 58'49		evening rise	3406 Jun 22 06:54	9° © 48'13	
	3405 Jul 10 06:40	$0^{\circ}\Omega$			3406 Jul 02 15:38	$0 {\circ} \Omega$	
	3405 Jul 27 17:07	0° m)		evening max el	3406 Jul 19 11:34	22° Ω 59'16	25°28'28
desc. node	3405 Aug 01 17:13	6° Mp 26′48		desc. node	3406 Jul 19 14:13	23° Ω 05'35	
evening max el	3405 Aug 06 16:17	11° m /44'44	26°38'51		3406 Jul 31 22:36	0° m y	
retrograde	3405 Aug 20 15:13	18° m 56'00		retrograde	3406 Aug 02 11:09	0° m/05'30	
evening set	3405 Aug 27 10:02	16° m 59'04		Ü	3406 Aug 03 23:39	30°RΩ	
min. Earth dist.	3405 Aug 31 06:07	14° m) 22'43	0.60065 AU	evening set	3406 Aug 08 07:36	28° Ω 45'47	
inferior conj	3405 Sep 03 12:25	11° mp 45'08		min. Earth dist.	3406 Aug 12 23:33	26° Ω 05'39	0.58025 AU
,	•		4°40'59	inferior conj	3406 Aug 12 23.33 3406 Aug 16 02:54	20 δ (03 39 23° Ω 54'15	
minimum elong	3405 Sep 03 17:20	11°Mp35'12	4 40 39	-	e e e e e e e e e e e e e e e e e e e		
morning rise	3405 Sep 11 02:40	7° Mp 05'06		minimum elong	3406 Aug 16 04:13	23° Ω 51'57	5*06.05
direct	3405 Sep 13 11:57	6° TD 44'00		morning rise	3406 Aug 24 03:08	19° Ω 36'56	
morning max el	3405 Sep 21 00:28	10° Mp 24'44	18°11'49	direct	3406 Aug 26 15:36	19° Ω 17'22	
asc. node	3405 Sep 21 06:59	10° Mp 40'44		morning max el	3406 Sep 04 04:45	23° Ω 20′24	18°51'32
	3405 Oct 03 21:26	0∘ ⊽		asc. node	3406 Sep 08 04:02	27° Ω 54'03	
morning set	3405 Oct 06 20:54	5° ≏ 34'47			3406 Sep 09 15:52	0° m)	
				morning set	3406 Sep 20 17:12	19° m 44'43	
superior conj	3405 Oct 16 08:47	23° Ω 14'50	1°18'45	-	3406 Sep 25 22:37	0∘ ⊽	
minimum elong	3405 Oct 16 12:46	23° Ω 32'51	1°18'20				
8	3405 Oct 20 03:51	0°M	•	superior conj	3406 Sep 29 05:06	6° £ 18'07	1°36'09
max. Earth dist.	3405 Oct 20 03:31 3405 Oct 23 23:38	6°M35'10	1.41222 AU	minimum elong	3406 Sep 29 07:38	6° £ 30'09	
	3405 Oct 28 23:30	14°M52'16	1.71222 AU	max. Earth dist.	3406 Sep 29 07.38 3406 Oct 06 04:47		
evening rise						19° Ω 10'43	1.39165 AU
desc. node	3405 Oct 28 16:34	14°M24'05		evening rise	3406 Oct 10 02:55	26° Ω 01'09	
	3405 Nov 07 15:24	0° ⊼			3406 Oct 12 11:29	0°M	
	3405 Nov 29 18:45	0° ろ		desc. node	3406 Oct 15 13:35	5° ™ 04'22	
evening max el		20 - 7 1 412 0	22001157		2406 NT 01 06 52	00.7	
•	3405 Dec 01 21:44	2° ろ 14'39	23°01'56		3406 Nov 01 06:53	0° ∡	
retrograde	3405 Dec 01 21:44 3405 Dec 12 02:35	8°る14'39	23 01 30	evening max el	3406 Nov 14 11:01	0°×¹ 15°× 7 53'38	24°21'32

	2406 N 25 17-41	220.720026			2407 0-+ 27 22.12	200 m 24/51	25925105
retrograde	3406 Nov 25 17:41	22° 🗷 29'36		evening max el	3407 Oct 27 23:12	29°M34'51	25*35*05
evening set	3406 Dec 01 03:06	20° ₹ 14'36			3407 Oct 28 09:37	0° ∡ 7	
asc. node	3406 Dec 05 03:15	15° ∡ ¹46'33		retrograde	3407 Nov 09 04:17	6° ₹ 35'07	
min. Earth dist.	3406 Dec 05 19:43	14° ₹ 51'59	0.67679 AU	evening set	3407 Nov 15 03:45	4° ∡ ¹05'42	
inferior conj	3406 Dec 06 14:15	13° ∡ ¹49'49	0°29'49		3407 Nov 18 23:20	30°RM	
minimum elong	3406 Dec 06 13:32	13° ∡ ′52′13	0°29'31	min. Earth dist.	3407 Nov 19 12:42	29° M ₊18′00	0.67074 AU
morning rise	3406 Dec 12 00:01	7° ∡ ¹46'58		inferior conj	3407 Nov 20 18:11	27°M43'40	-0°25'51
direct	3406 Dec 15 19:37	6° ∡ ¹23'43		minimum elong	3407 Nov 20 18:51	27° M 41'32	0°25'33
morning max el	3406 Dec 23 14:07	10° ∡ 50′06	20°15'43	asc. node	3407 Nov 22 00:17	26°ML08'43	
	3407 Jan 07 03:56	აი		morning rise	3407 Nov 26 10:17	21°M48'53	
desc. node	3407 Jan 11 12:50	6° る 30'18		direct	3407 Nov 29 18:12	20°M45'02	
morning set	3407 Jan 20 06:27	19° る 49'44		morning max el	3407 Dec 06 19:27	24°M41'30	19°14'49
morning set	3407 Jan 26 18:38	0°≈		morning max er	3407 Dec 11 08:11	0°×7	1) 144)
E d E d			1 42660 ATT	4 41 111			0.7
max. Earth dist.	3407 Jan 30 10:34	5° ≈ 50'05	1.43668 AU	greatest brilliancy	3407 Dec 20 16:01	13°×726'57	-0.7m
				desc. node	3407 Dec 29 09:50	26° ₹ 54'58	
superior conj	3407 Feb 05 08:40	15° ≈ 27'43		morning set	3407 Dec 30 07:29	28° ∡ 18'56	
minimum elong	3407 Feb 05 05:07	15° ≈ 13′05	2°03'29		3407 Dec 31 09:30	0°ಕ	
	3407 Feb 13 23:54	0° ∀		max. Earth dist.	3408 Jan 13 01:20	19° る 47'36	1.44800 AU
evening rise	3407 Feb 18 01:21	7° ∺ 01'08					
asc. node	3407 Mar 03 02:32	28°) (42′40		superior conj	3408 Jan 16 01:16	24° る 32'14	-1°42'39
	3407 Mar 04 00:38	$0^{\circ}\mathbf{Y}$		minimum elong	3408 Jan 15 16:40	23° る 58'07	1°41'54
evening max el	3407 Mar 07 15:28	4° Ƴ 19'11	18°09'06	· ·	3408 Jan 19 11:26	0° ≈	
retrograde	3407 Mar 14 02:20	7° Υ '42'27	10 07 00	evening rise	3408 Jan 30 13:48	18°≈04'52	
-	3407 Mar 16 22:20	7° Υ 01'58		evening rise	3408 Feb 06 18:59	0° ₩	
evening set			2024110	1			
inferior conj	3407 Mar 23 03:59		3°34'19	asc. node	3408 Feb 17 23:34	16° ¥ 25'43	
minimum elong	3407 Mar 23 05:08	1° Y 47'15	3°34'14	evening max el	3408 Feb 19 03:45	17°) €41'33	18°27'23
	3407 Mar 24 21:41	30°Ŗ ℋ		retrograde	3408 Feb 25 16:02	21° ∺ 15′04	
min. Earth dist.	3407 Mar 25 23:33	28° ¥ 53'17	0.62538 AU	evening set	3408 Feb 28 17:42	20°) 22′55	
morning rise	3407 Mar 29 10:41	25°) 48′11		inferior conj	3408 Mar 05 14:00	14°) 52′36	3°38'00
direct	3407 Apr 05 08:14	23° ∺ 13′58		minimum elong	3408 Mar 05 13:27	14° ¥ 54'13	3°38'00
desc. node	3407 Apr 09 11:59	24°) €03'45		min. Earth dist.	3408 Mar 07 18:24	12°) 19′43	0.64400 AU
	3407 Apr 18 03:29	$0^{\circ}\mathbf{\Upsilon}$		morning rise	3408 Mar 11 08:34	8°) 43'11	
morning max el	3407 Apr 19 08:59	1° Y 11'27	27°50'27	direct	3408 Mar 18 04:02	5°) 54'11	
morning man er	3407 May 10 11:24	0°8	2, 552,	desc. node	3408 Mar 26 09:01	9° ₩ 07'15	
morning set	3407 May 23 06:35	23° 8 39'16		morning max el	3408 Mar 31 18:17	13°) (48'13	27°25'28
morning set	•	0° Ⅱ		morning max ci		0°Υ	21 23 26
To de the	3407 May 26 08:26		1 22565 444		3408 Apr 13 20:35		
max. Earth dist.	3407 May 28 19:13	5° Ⅱ 12'04	1.32565 AU		3408 May 02 01:57	0°8	
asc. node	3407 May 30 01:50	7° Ⅱ 56'55		morning set	3408 May 05 23:36	7° 8 27'56	
				max. Earth dist.	3408 May 10 19:19	17° 8 11'34	1.33428 AU
superior conj	3407 May 30 20:03	9° Ⅱ 35'39	0°07'59				
minimum elong	3407 May 30 19:40	9° Ⅱ 33'36	0°07'54	superior conj	3408 May 14 01:09	24° 8 00'01	-0°19'50
behind sun begin	3407 May 30 15:08	9° Ⅱ 08'57		minimum elong	3408 May 14 02:09	24° 8 05'22	0°19'38
behind sun end	3407 May 31 00:13	9° Ⅱ 58'15		asc. node	3408 May 15 22:52	28° 8 03'47	
evening rise	3407 Jun 06 18:42	24° Ⅲ 38′09			3408 May 16 20:33	Π°	
C	3407 Jun 09 08:17	0°ಅ		evening rise	3408 May 21 06:03	9° Ⅱ 22'27	
	3407 Jun 27 16:21	$0^{\circ}\Omega$		<i>8</i> 23	3408 Jun 01 01:00	0°ಅ	
evening max el	3407 Jul 01 01:15	3° Ω 35'24	23°57'17	evening max el	3408 Jun 11 15:59	14° © 01'32	22°20'44
desc. node	3407 Jul 06 11:14	7°Ω53'34	23 37 17	desc. node	3408 Jun 22 08:14	20°915'51	22 20 11
	3407 Jul 14 19:12	10° Ω 30'18					
retrograde				retrograde	3408 Jun 24 15:29	20°528'04	
evening set	3407 Jul 19 05:47	9° Ω 46'45		evening set	3408 Jun 27 15:15	20°508'17	
min. Earth dist.	3407 Jul 25 11:38		0.56265 AU	min. Earth dist.	3408 Jul 05 22:33		0.55124 AU
inferior conj	3407 Jul 27 21:07	5° Ω 17'55		inferior conj	3408 Jul 06 21:56	15° © 59'52	-3°53'49
minimum elong	3407 Jul 27 16:37	5° Ω 24'51	4°53'48	minimum elong	3408 Jul 06 13:39	16°©11'36	3°51'44
morning rise	3407 Aug 05 06:03	1° Ω 19'59		morning rise	3408 Jul 15 14:02	12° © 09'04	
direct	3407 Aug 07 23:55	1° Ω 00′35		direct	3408 Jul 18 15:09	11° 5 48'08	
morning max el	3407 Aug 17 22:49	5° Ω 37'52	19°52'55	morning max el	3408 Jul 30 05:18	17°511'51	21°14'57
asc. node	3407 Aug 26 01:04	15° Ω 59'53		-	3408 Aug 09 03:28	$0^{\circ}\Omega$	
	3407 Sep 02 17:40	0° m)		asc. node	3408 Aug 11 22:06	4° Ω 45'58	
morning set	3407 Sep 04 20:42	ريات 4° ال 0 15′40		morning set	3408 Aug 19 04:54	19° Ω 00'47	
morning set	этот вор от 20. 4 2	- 11y 13 +0		morning set	3408 Aug 24 10:53	0°m)	
gunarier con:	2407 San 12 16:06	200 m 0511 4	10/2156		5400 Aug 24 10.55	עוו ט	
superior conj	3407 Sep 12 16:06	-	1°43'56		2400 4 26 12 21	40 *** *****	10.42146
minimum elong	3407 Sep 12 16:53	20° Mp 09'08	1°43'54	superior conj	3408 Aug 26 13:31	4° m/23'48	1°43'46
	3407 Sep 17 18:18	0∘ ⊽		minimum elong	3408 Aug 26 12:49	4° Mp 20′07	1°43'44
max. Earth dist.	3407 Sep 18 09:51	1° ≏ 13'27	1.37127 AU	max. Earth dist.	3408 Aug 30 20:04	13° m 05'09	1.35330 AU
evening rise	2407.0 22.04.51	00 0 1010 4		arranina piaa	2400 0 04 01 27	21°M) 17'22	
	3407 Sep 22 04:51	8° ≏ 12'34		evening rise	3408 Sep 04 01:27	21 III 1/22	
desc. node	3407 Sep 22 04:51 3407 Oct 02 10:34	8° ± 12'34 25° £ 34'40		evening rise	3408 Sep 04 01:27 3408 Sep 08 19:27	0° ⊡	
desc. node	*			desc. node	*		

	3408 Sep 28 02:46	0° M .		evening rise	3409 Aug 18 12:10	5° m 02'24	
evening max el	3408 Sep 28 02:40 3408 Oct 09 11:31	13°ML14'16	26°35'09	evening rise	3409 Sep 01 12:13	ე ი ი ე∘ ი	
retrograde	3408 Oct 09 11:31 3408 Oct 22 09:52	20°M28'27	20 33 09	desc. node	3409 Sep 01 12:13 3409 Sep 05 04:37	0 == 5° £ 41'53	
evening set	3408 Oct 28 22:30	17°M49'02		evening max el	3409 Sep 03 04.37 3409 Sep 21 23:50	26° £ 42'49	2701420
min. Earth dist.	3408 Oct 28 22:30 3408 Nov 02 00:24	17 11C49 02 13°11C37'08	0.66123 AU	evening max er	3409 Sep 21 23:30 3409 Sep 25 19:29	20 == 42 49 0°M	27 14 30
		13 IIL3708 11°ML34'21		rotro aro do		4°ML01'07	
inferior conj	3408 Nov 03 17:26			retrograde	3409 Oct 05 09:52		
minimum elong	3408 Nov 03 19:45	11°M27'25	1°23'53	evening set	3409 Oct 12 08:55	1°M19'09	
asc. node	3408 Nov 07 21:19	7°M07'46			3409 Oct 13 22:00	30° ₹ Ω	0.64046.477
morning rise	3408 Nov 09 17:41	5°M50'12		min. Earth dist.	3409 Oct 16 04:35	27° £ 42'33	0.64816 AU
direct	3408 Nov 12 16:01	5°M02'04		inferior conj	3409 Oct 18 09:45	25° ≙ 16'40	
morning max el	3408 Nov 19 07:09	8°M39'26	18°29'40	minimum elong	3409 Oct 18 13:47	25° Ω 05'36	2°23'51
	3408 Dec 04 07:31	0°⊀		morning rise	3409 Oct 24 19:41	19° ≏ 46'08	
morning set	3408 Dec 09 08:44	8° ≯ 04'31		asc. node	3409 Oct 25 18:21	19° ≏ 24'48	
desc. node	3408 Dec 15 06:52	17° ∡ ³30'54		direct	3409 Oct 27 10:51	19° ≙ 09'45	
	3408 Dec 23 04:44	0°ප		morning max el	3409 Nov 02 22:41	22° ₽ 37′20	18°01'22
					3409 Nov 08 18:06	0°M	
superior conj	3408 Dec 25 03:41	3° ⋜ 04'17	-1°03'45	morning set	3409 Nov 20 15:31	19° M 17'59	
minimum elong	3408 Dec 24 19:55	2° る 33'47	1°02'48		3409 Nov 27 02:24	0° ∡ ¹	
max. Earth dist.	3408 Dec 25 19:29	4° ට 06'17	1.45229 AU	desc. node	3409 Dec 02 03:56	8° √ 14'10	
evening rise	3409 Jan 10 02:55	28° ප 11'34					
C	3409 Jan 11 06:19	0° ≈		superior conj	3409 Dec 04 12:34	12° ₹ 01'21	-0°16'05
greatest brilliancy	3409 Jan 19 14:42	13° ≈ 11'06	-0.8m	minimum elong	3409 Dec 04 10:35	11° ₹ 53'27	0°15'48
B	3409 Jan 31 11:40	0°) €	******	behind sun begin	3409 Dec 04 08:18	11° х 44'18	
evening max el	3409 Feb 01 13:32	1° ₩ 09'30	19°03'25	behind sun end	3409 Dec 04 12:53	12° ₹ '02'36	
asc. node	3409 Feb 03 20:36	3°) 13′04	17 03 23	max. Earth dist.	3409 Dec 08 14:28	18°×729'59	1.44915 AU
retrograde	3409 Feb 08 11:10	5° ∺ 04'11		max. Earth dist.	3409 Dec 15 22:53	0° る	1.44713710
•	3409 Feb 11 19:18	3° \ 59'27		avanina riaa	3409 Dec 13 22:33 3409 Dec 20 20:13	7°る34'03	
evening set				evening rise		7 33403 28° る 52'31	0.6
: <i>c</i> :	3409 Feb 15 22:49	30°R≈	2927100	greatest brilliancy	3410 Jan 03 20:15	28°€32'31	-0.6m
inferior conj	3409 Feb 17 09:23	28°≈12'38	3°26'00		3410 Jan 04 14:33		10055120
minimum elong	3409 Feb 17 07:37	28°≈18'11	3°25'46	evening max el	3410 Jan 15 19:03	14°≈40'36	19°55'28
min. Earth dist.	3409 Feb 18 22:24	26°≈15'31	0.65892 AU	asc. node	3410 Jan 21 17:37	18°≈50'45	
morning rise	3409 Feb 22 19:35	21°≈59'51		retrograde	3410 Jan 23 08:49	19°≈05'17	
direct	3409 Mar 01 06:37	19° ≈ 09'50		evening set	3410 Jan 27 00:48	17° ≈ 46'47	
desc. node	3409 Mar 13 06:03	25°≈53'18		inferior conj	3410 Feb 01 11:07	11° ≈ 45'48	3°02'03
morning max el	3409 Mar 14 04:11	26° ≈ 47'59	26°30'17	minimum elong	3410 Feb 01 08:43	11° ≈ 53'49	3°01'31
	3409 Mar 17 03:54	0° ℋ		min. Earth dist.	3410 Feb 02 09:53	10° ≈ 29'47	0.66976 AU
	3409 Apr 07 11:28	0 ° $\mathbf{\gamma}$		morning rise	3410 Feb 06 16:25	5° ≈ 32'07	
morning set	3409 Apr 19 04:58	20° Ƴ 38'07		direct	3410 Feb 12 15:03	2° ≈ 52'48	
max. Earth dist.	3409 Apr 23 08:17	28° Ƴ 37'21	1.34753 AU	morning max el	3410 Feb 24 13:02	9° ≈ 59'48	25°14'00
	3409 Apr 24 00:58	9° 8		desc. node	3410 Feb 28 03:07	13° ≈ 53′20	
					3410 Mar 12 09:30	0° ∀	
superior conj	3409 Apr 27 23:53	8° 8 00'34	-0°48'37		3410 Mar 31 02:25	$0^{\circ}\Upsilon$	
minimum elong	3409 Apr 28 02:26	8° 8 13'43	0°48'08	morning set	3410 Apr 01 18:00	2° Y 56'33	
asc. node	3409 May 02 19:54	18° 8 04'33		max. Earth dist.	3410 Apr 05 09:55	9° Ƴ 39'40	1.36524 AU
evening rise	3409 May 05 14:58	23° 8 54'07			•		
3	3409 May 08 14:47	0°II		superior conj	3410 Apr 11 13:27	21° Y 29'51	-1°16'43
evening max el	3409 May 24 15:26	24° Ⅱ 49'10	20°52'43	minimum elong	3410 Apr 11 17:24	21° Υ 49'25	
e venning man er	3409 Jun 01 20:41	0ಂತ	20 02 .5	g	3410 Apr 15 19:13	0°8	1 10 00
retrograde	3409 Jun 05 04:31	0°927'38		evening rise	3410 Apr 19 19:17	8° 8 06'57	
evening set	3409 Jun 07 07:36	0°916'53		asc. node	3410 Apr 19 16:57	7° 8 55'10	
evening set	3409 Jun 08 15:11	30°R∏		asc. node	3410 May 01 22:52	0°Ⅱ	
desc. node	3409 Jun 09 05:16	29° ∏ 50'09		avaning may al	-	6° Ⅱ 15'46	100/11/26
			2000122	evening max el	3410 May 07 03:00		19 41 20
inferior conj	3409 Jun 16 15:23	26° Ⅱ 19'23		retrograde	3410 May 16 22:04	11° I 100'57	
minimum elong	3409 Jun 16 09:22	26° Ⅱ 27'55	2°07'27	evening set	3410 May 18 21:36	10° Ⅱ 50′09	
min. Earth dist.	3409 Jun 17 10:30	25° I I52'11	0.54877 AU	desc. node	3410 May 27 02:17	7° Ⅱ 08'54	0010106
morning rise	3409 Jun 25 10:52	22° Ⅱ 16'07		inferior conj	3410 May 27 16:02	6° Ⅱ 47'29	
direct	3409 Jun 29 00:29	21° Ⅱ 48'40		minimum elong	3410 May 27 15:35	6° Ⅱ 48'11	0°09'56
morning max el	3409 Jul 12 01:26	28° Ⅱ 03'44	22°52'37	transit middle	3410 May 27 15:35	6° Ⅱ 48'11	0°09'56
	3409 Jul 14 00:07	0 \circ \odot		transit begin	3410 May 27 12:30	6° ∏ 53'00	
asc. node	3409 Jul 29 19:09	24° © 01'35		transit end	3410 May 27 18:40	6° ∏ 43'22	
	3409 Aug 01 18:53	$0^{\circ}\Omega$		min. Earth dist.	3410 May 30 00:08	5° Ⅱ 20′07	0.55600 AU
morning set	3409 Aug 03 15:46	3° £ 53′05		morning rise	3410 Jun 05 07:08	2° ∏ 14′58	
				direct	3410 Jun 09 17:08	1° Ⅱ 31'33	
superior conj	3409 Aug 10 17:56	19° Ω 02'18	1°37'02	morning max el	3410 Jun 23 15:52	8° Ⅱ 30′05	24°35'25
minimum elong	3409 Aug 10 16:11	18° Ω 52'59	1°36'53		3410 Jul 09 11:39	0 \circ \odot	
max. Earth dist.	3409 Aug 13 15:02	25° Ω 07'15	1.33903 AU	asc. node	3410 Jul 16 16:13	13° © 39'08	
	3409 Aug 15 23:49	0° m		morning set	3410 Jul 19 03:34	18° 5 47'43	
	C .			Č			

	3410 Jul 24 08:05	$0^{\circ}\Omega$		superior conj	3411 Jul 10 14:01	18° 5 48'33	1°07'58
				minimum elong	3411 Jul 10 11:42	18° © 35'48	1°07'36
superior conj	3410 Jul 26 02:47	3° £ 52′52	1°24'49	max. Earth dist.	3411 Jul 11 04:23	20° © 07'37	1.32276 AU
minimum elong	3410 Jul 26 00:31	3° Ω 40′27	1°24'32		3411 Jul 15 17:27	0 $^{\circ}$ Ω	
max. Earth dist.	3410 Jul 27 18:44	7° Ω 29'28	1.32890 AU	evening rise	3411 Jul 17 13:13	3° £ 51′00	
evening rise	3410 Aug 02 09:08	19° Ω 16'51			3411 Jul 31 14:33	0° m	
	3410 Aug 07 20:27	0° m)		desc. node	3411 Aug 09 22:37	13° m 34'35	
desc. node	3410 Aug 23 01:38	25° m 01'13		evening max el	3411 Aug 17 16:45	22°Mp 16'35	27°05'47
	3410 Aug 26 18:02	0∘ ত		retrograde	3411 Aug 31 13:36	29° m 29'12	
evening max el	3410 Sep 04 10:29	9° ≏ 48'04	27°26'16	evening set	3411 Sep 07 15:27	27° m 14'49	
retrograde	3410 Sep 18 03:20	17° ≙ 04'14		min. Earth dist.	3411 Sep 11 07:01	24° Mp 32'38	0.61251 AU
evening set	3410 Sep 25 07:54	14° ≙ 29'56		inferior conj	3411 Sep 14 10:17	21° m 49'02	
min. Earth dist.	3410 Sep 28 23:11	11° ≏ 25'02	0.63173 AU	minimum elong	3411 Sep 14 15:58	21°Mp36'37	4°15'59
inferior conj	3410 Oct 01 16:26	8° £ 44'11		morning rise	3411 Sep 21 18:16	16° Mp 56'07	
minimum elong	3410 Oct 01 21:50	8° £ 30'49	3°22'47	direct	3411 Sep 24 03:19	16° Mp 33'01	
morning rise	3410 Oct 08 13:10	3° £ 30'40		asc. node	3411 Sep 29 12:29	18° Mp 36'22	1.705.010.7
direct	3410 Oct 10 23:50	3° Ω 02'25		morning max el	3411 Oct 01 05:29	20° m 05'21	17°58'27
asc. node	3410 Oct 12 15:25	3° £ 15'35	17050120	. ,	3411 Oct 08 14:01	0° ⊽	
morning max el	3410 Oct 17 15:08	6° £ 28'16	17°50'38	morning set	3411 Oct 17 00:50	15° Ω 00'05	
	3410 Nov 01 23:34	0°M			3411 Oct 25 06:54	0°M	
morning set	3410 Nov 02 23:02	1° M 42'52		aumorior coni	2411 Oct 27 06:27	20 m 20122	1902147
aumariar aani	3410 Nov 14 20:09	22°M06'22	0°28'45	superior conj minimum elong	3411 Oct 27 06:37 3411 Oct 27 10:54	3°M30'33 3°M49'19	1°03'47 1°03'15
superior conj minimum elong	3410 Nov 14 20:58	22°ML18'07	0°28'21	max. Earth dist.	3411 Oct 27 10.34 3411 Nov 03 20:20	16°M24'11	1.42319 AU
desc. node	3410 Nov 14 22:38 3410 Nov 19 00:58	29°M00'55	0 2821	desc. node	3411 Nov 05 20:20 3411 Nov 05 21:59	19°M48'05	1.42319 AU
desc. node	3410 Nov 19 00:38 3410 Nov 19 15:31	29 II c 00 33		evening rise	3411 Nov 09 21:59 3411 Nov 09 22:57	26°M17'57	
max. Earth dist.	3410 Nov 19 13:31 3410 Nov 21 07:35	0 x ⁴ 2° x ⁴41'33	1.43905 AU	evening rise	3411 Nov 09 22.37 3411 Nov 12 07:22	20 IIG1/3/ 0° √ 1	
evening rise	3410 Nov 30 05:26	16° 🖈 42'44	1. 4 3703 AO		3411 Dec 02 19:47	%ਰ	
evening rise	3410 Dec 08 23:22	0°궁		evening max el	3411 Dec 02 13:47	11° る 46'27	22°16'06
evening max el	3410 Dec 29 19:10	28° ප 12'48	21°00'57	retrograde	3411 Dec 12 13:33	17° ප 27'16	22 1000
evening max er	3410 Dec 31 16:09	0°≈	21 0037	asc. node	3411 Dec 26 11:43	17 3 27 10	
retrograde	3411 Jan 07 06:40	3°≈14'02		evening set	3411 Dec 26 15:50	15° る 37'36	
asc. node	3411 Jan 08 14:40	3°≈04'15		inferior conj	3412 Jan 01 00:18	9° ට 17'05	1°47'28
evening set	3411 Jan 11 08:12	1°≈40'26		minimum elong	3411 Dec 31 22:09	9° ට 24'31	1°46'41
	3411 Jan 13 03:16	30°R₹		min. Earth dist.	3411 Dec 31 22:39	9° る 22'49	0.67945 AU
inferior conj	3411 Jan 16 16:47	25° る 28'03	2°28'38	morning rise	3412 Jan 06 04:21	3° ප 06'35	
minimum elong	3411 Jan 16 14:16	25° ප 36'41	2°27'52	direct	3412 Jan 10 21:32	1° る 08'19	
min. Earth dist.	3411 Jan 17 02:42	24° る 53'51	0.67654 AU	morning max el	3412 Jan 20 08:39	6° る 42'35	22°18'31
morning rise	3411 Jan 21 20:09	19° ප 15'11		desc. node	3412 Feb 01 21:14	22° る 15'37	
direct	3411 Jan 27 04:16	16° ප 54'29			3412 Feb 07 07:14	0° ≈	
morning max el	3411 Feb 06 21:30	23° る 17'32	23°46'48	morning set	3412 Feb 22 19:32	23° ≈ 55'30	
	3411 Feb 12 19:41	0° ≈			3412 Feb 26 12:08	0°) €	
desc. node	3411 Feb 15 00:10	2° ≈ 45'39		max. Earth dist.	3412 Feb 28 02:29	2°) 40′52	1.40789 AU
	3411 Mar 05 18:54	0° ∀					
morning set	3411 Mar 14 08:41	14° ∺ 06′26		superior conj	3412 Mar 06 21:20	16° ∺ 12'59	-1°59'59
max. Earth dist.	3411 Mar 18 05:24	20°) 49′30	1.38619 AU	minimum elong	3412 Mar 07 00:54	16° ¥ 28'58	1°59'47
	3411 Mar 23 07:01	0 ° \mathbf{V}			3412 Mar 14 09:44	0 ° Υ	
				evening rise	3412 Mar 17 02:52	5° Y 05′00	
superior conj	3411 Mar 25 14:07	4° Y 17'35		asc. node	3412 Mar 23 11:01	16° Ƴ 44'19	
minimum elong	3411 Mar 25 18:44	4° Υ 39'21	1°41'10		3412 Apr 01 09:00	0°8	
evening rise	3411 Apr 03 16:19	21° Y 53′03		evening max el	3412 Apr 02 07:55	0° 8 59'14	18°18'32
asc. node	3411 Apr 06 13:59	27° Y 30′10		retrograde	3412 Apr 09 12:31	4° 8 34'11	
	3411 Apr 07 21:36	0°8		evening set	3412 Apr 11 23:09	4° 8 10'20	
evening max el	3411 Apr 20 01:28	18° 8 21'10	18°49'53		3412 Apr 18 13:17	30°₹ Υ	00.404.5
retrograde	3411 Apr 28 07:43	22° 8 23'19		inferior conj	3412 Apr 19 03:09	29° Y 30'41	2°43'17
evening set	3411 Apr 30 11:59	22° 8 07'34	1922/20	minimum elong	3412 Apr 19 06:46	29°Y22'58	2°42'26
inferior conj	3411 May 08 10:50	17° 8 48'14	1°32'29	min. Earth dist.	3412 Apr 22 13:30	26° Υ 36'58 23° Υ 53'49	0.59155 AU
minimum elong min. Earth dist.	3411 May 11 16:22	17° 8 42'24 15° 8 28'33	1°31'27 0.57129 AU	morning rise desc. node	3412 Apr 26 11:39	23°°\753'49 22°\730'25	
desc. node	3411 May 11 16:22 3411 May 13 23:19	13° 6 28'33	0.57129 AU	desc. node direct	3412 Apr 29 20:22 3412 May 02 18:13	22° \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	
morning rise	3411 May 15 23:19 3411 May 16 12:54	13° 8 39'44		morning max el	3412 May 02 18:13 3412 May 17 03:21	22° γ 0729 29° γ 54'39	27°16'07
direct	3411 May 10 12.54 3411 May 21 22:53	12 8 40 36		morning max ci	3412 May 17 05:31	0° 8	2/ 100/
morning max el	3411 May 21 22.33 3411 Jun 05 06:56	11 8 2939	26°08'23		3412 May 17 03.31 3412 Jun 07 12:32	0°II	
morning max ci	3411 Jun 14 13:54	0° Ⅱ	20 0023	morning set	3412 Jun 16 23:28	18° Ⅱ 22'11	
	3411 Jul	0°ಅ		asc. node	3412 Jun 19 10:18	23° ∏ 34'11	
morning set	3411 Jul 03 14:42	3° 9 39'22			3412 Jun 22 09:15	0°95	
asc. node	3411 Jul 03 13:17	3°931'52		max. Earth dist.	3412 Jun 23 16:16		1.32062 AU
	00 10.11	5152		Darm dibt.	20 10.10		

gunariar agni	3412 Jun 24 01:46	3° 5 42'59	0°47'11	superior aoni	2412 Jun 09 12:24	18° Ⅲ 30'51	0°23'06
superior conj minimum elong	3412 Jun 23 23:53	3°932'34	0°46'49	superior conj minimum elong	3413 Jun 08 12:24 3413 Jun 08 11:22	18° Д 25'09	0°22'52
evening rise	3412 Jun 30 21:54	18° © 36'28	0 4049	minimum clong	3413 Jun 13 18:33	0°©	0 22 32
evening rise	3412 Jul	0°Ω		evening rise	3413 Jun 15 09:06	3°9526'45	
	3412 Jul 25 21:16	0° mp		evening rise	3413 Jun 29 14:29	0°Ω	
desc. node	3412 Jul 26 19:38	עווי ט 1°10ע 102'28		avaning may al	3413 Jul 11 08:15	14° Ω 52'49	24°51'28
evening max el			26012117	evening max el desc. node	3413 Jul 13 16:38	$16^{\circ}\Omega 58'23$	24 31 28
Č	3412 Jul 29 16:03	3° Mp 57'33	26°12'17		3413 Jul 25 07:01	10 δι 38 23 21° Ω 56'34	
retrograde	3412 Aug 12 15:30	11° Mp 07'25		retrograde			
evening set	3412 Aug 19 02:41	9° m 25'10	0.50101.411	evening set	3413 Jul 30 13:55	20° Ω 53'05	0.57014.444
min. Earth dist.	3412 Aug 23 04:51	6° TD 49'54		min. Earth dist.	3413 Aug 04 19:42	18° Ω 05'47	
inferior conj	3412 Aug 26 11:40	4° m/20'48		inferior conj	3413 Aug 07 17:33	16° Ω 10'48	
minimum elong	3412 Aug 26 15:26	4° m 13'38	4°55'08	minimum elong	3413 Aug 07 16:30		5°06'30
	3412 Sep 02 18:08	30°RΩ		morning rise	3413 Aug 15 21:39	12° Ω 02'43	
morning rise	3412 Sep 03 06:22	29° Ω 50'52		direct	3413 Aug 18 11:58	11° Ω 43'33	
direct	3412 Sep 05 16:42	29° Ω 30'39		morning max el	3413 Aug 27 14:46	15° Ω 59'52	19°15'01
	3412 Sep 08 13:02	0°Щ		asc. node	3413 Sep 02 06:34	22° Ω 50′04	
morning max el	3412 Sep 13 14:27	3°Mp19'07	18°26'09		3413 Sep 06 16:36	0° m)	
asc. node	3412 Sep 15 09:33	5° Mp 12'55		morning set	3413 Sep 13 15:15	13°Mp13'14	
morning set	3412 Sep 29 15:32	28° m 53'45					
	3412 Sep 30 05:20	0∘ ⊽		superior conj	3413 Sep 21 19:23	29° Mg 25'56	1°40'30
				minimum elong	3413 Sep 21 21:10	29° m 34'36	1°40'25
superior conj	3412 Oct 08 16:12	16° ≏ 02'22	1°27'24		3413 Sep 22 02:24	0∘ ত	
minimum elong	3412 Oct 08 19:40	16° ≏ 18'21	1°27'05	max. Earth dist.	3413 Sep 28 07:18	11° ≏ 40'24	1.38280 AU
max. Earth dist.	3412 Oct 16 03:24	29° ≏ 23'24	1.40359 AU	evening rise	3413 Oct 02 02:03	18° ≏ 25'20	
	3412 Oct 16 11:53	0° M			3413 Oct 08 23:05	0° M ₊	
evening rise	3412 Oct 20 12:41	6° ™ 48'57		desc. node	3413 Oct 09 15:58	1° M .08'14	
desc. node	3412 Oct 22 18:58	10°M31'48			3413 Oct 29 17:05	0° ∡ ¹	
	3412 Nov 04 10:09	0° ∡ ¹		evening max el	3413 Nov 06 16:55	9° ∡ ′02′10	24°53'56
evening max el	3412 Nov 24 04:23	25° ∡ ¹22'15	23°35'55	retrograde	3413 Nov 18 09:59	15° ∡ 50′19	
Ü	3412 Nov 29 18:53	0°ಕ		evening set	3413 Nov 24 01:14	13° ∡ ¹28'58	
retrograde	3412 Dec 04 20:32	1° る 40'41		min. Earth dist.	3413 Nov 28 14:31	8° ∡ 720'46	0.67464 AU
renograde	3412 Dec 09 09:24	30°R. ✓		asc. node	3413 Nov 29 05:48	7° ∡ 730'24	0.07.101.110
evening set	3412 Dec 09 22:03	29° х 34'40		inferior conj	3413 Nov 29 13:38	7° ∡ 704'32	0°06'43
asc. node	3412 Dec 12 08:45	27°×703'16		minimum elong	3413 Nov 29 13:28	7° ∡ 705'05	0°06'39
inferior conj	3412 Dec 15 07:51	23°×709'59	0°59'47	transit middle	3413 Nov 29 13:28	7° ₹ 05'05	0°06'39
minimum elong	3412 Dec 15 06:29	23° 🖈 14'37	0°59'14	transit begin	3413 Nov 29 10:57	7° ∡ 13′24	0 00 39
min. Earth dist.	3412 Dec 13 00:29	23° 🖈 14'37' 23° 🖈 52'35	0.67875 AU	transit end	3413 Nov 29 15:59	6° x 1524	
		23 x 32 33 17° x 03'38	0.07873 AU			1° x 04'34	
morning rise	3412 Dec 20 14:54			morning rise	3413 Dec 05 01:50	30°RM	
direct	3412 Dec 24 17:52	15° ₹ 28'11	20057107	1	3413 Dec 07 08:19		
morning max el	3413 Jan 02 01:45	20° ₹ 17'13	20°5/'0/	direct	3413 Dec 08 16:10	29°M50'01	
	3413 Jan 10 03:20	0°る			3413 Dec 10 00:47	0° ∡ ¹	10045140
desc. node	3413 Jan 18 18:15	12° る 12'23		morning max el	3413 Dec 16 02:34	4° ⋌ ¹02'40	19°47'49
_	3413 Jan 30 12:37	0° ≈		greatest brilliancy	3413 Dec 29 10:59	21° ⋌ ¹39'34	-0.7m
morning set	3413 Feb 01 03:09	2° ≈ 30'03			3414 Jan 04 00:15	0°ਰ	
max. Earth dist.	3413 Feb 09 05:48	15° ≈ 26′01	1.42740 AU	desc. node	3414 Jan 05 15:16	2° る 28'28	
				morning set	3414 Jan 10 23:02	10° ට 38'47	
superior conj	3413 Feb 16 05:58	27° ≈ 04'25		max. Earth dist.	3414 Jan 22 16:32	29° පි 00'10	1.44230 AU
minimum elong	3413 Feb 16 05:44	27°≈03'28	2°06'54		3414 Jan 23 07:34	0° ≈	
	3413 Feb 17 23:10	0° ∀					
evening rise	3413 Feb 27 22:55	17°) €33'43		superior conj	3414 Jan 27 12:35	6° ≈ 45'32	-1°57'09
	3413 Mar 06 23:48	0 ° \mathbf{Y}		minimum elong	3414 Jan 27 06:31	6° ≈ 20'58	1°56'48
asc. node	3413 Mar 10 08:02	5° Ƴ 30'47		evening rise	3414 Feb 10 00:00	29° ≈ 09'46	
evening max el	3413 Mar 16 19:06	14° Ƴ 01'31	18°07'03		3414 Feb 10 11:49	0° ℋ	
retrograde	3413 Mar 23 09:32	17° Ƴ 24'58		asc. node	3414 Feb 25 05:04	23°) 40′06	
evening set	3413 Mar 26 02:10	16° Ƴ 51'02		evening max el	3414 Feb 28 07:50	27° ₩ 18'47	18°14'42
inferior conj	3413 Apr 01 14:52	11° Y 51'00	3°23'02		3414 Mar 03 20:09	0 ° Υ	
minimum elong	3413 Apr 01 17:04	11° Y 45'36	3°22'45	retrograde	3414 Mar 06 18:15	0° Ƴ 44'45	
min. Earth dist.	3413 Apr 04 17:59	8° Ƴ 48'03	0.61331 AU	evening set	3414 Mar 09 16:36	29° ¥ 59′28	
morning rise	3413 Apr 08 06:09	5° Ƴ 55′28		-	3414 Mar 09 16:11	30° ₹	
direct	3413 Apr 15 01:02	3° Y 35'35		inferior conj	3414 Mar 15 17:54	24° ¥ 39'56	3°38'04
desc. node	3413 Apr 16 17:25	3° Y 43'41		minimum elong	3414 Mar 15 18:16	24°) €38'53	3°38'03
morning max el	3413 Apr 29 06:04	11° Υ 32'24	27°48'45	min. Earth dist.	3414 Mar 18 07:21	21°) 51'01	0.63372 AU
0	3413 May 13 18:21	0°8	· · · · · ·	morning rise	3414 Mar 21 18:58	18° ¥ 34'13	
	3413 May 30 18:32	0°II		direct	3414 Mar 28 16:44	15° ¥ 51'36	
morning set	3413 Jun 01 04:01	2° ∏ 50'16		desc. node	3414 Apr 03 14:27	17° ¥ 32'17	
asc. node	3413 Jun 06 07:19	13° ∏ 41'47		morning max el	3414 Apr 11 13:28	23°) 49'08	27°43'53
max. Earth dist.	3413 Jun 07 02:31		1.32255 AU	morning max or	3414 Apr 17 02:36	25 γ (49 08	2, 1333
	2.13 tan 0, 02.31	10 11000	1.52255 110		2.1.1.pi 17 02.50	V 1	

	3414 May 07 02:09	0° ႘			3415 Mar 16 09:07	0°) {	
morning set	3414 May 16 02:00	16° 8 55'19		desc. node	3415 Mar 21 11:30	3° ∺ 23'42	
max. Earth dist.	3414 May 21 07:15	27° 8 40'35	1.32874 AU	morning max el	3415 Mar 24 23:10	6° X 36'46	27°05'05
max. Darm dist.	3414 May 22 09:29	0°II	1.52074710	morning max cr	3415 Apr 11 23:03	0° Υ	27 03 03
	3 11 1 May 22 (0).2)	٠ <u>ــ</u>			3415 Apr 29 08:35	0°8	
superior conj	3414 May 23 20:04	3° Ⅱ 05'19	-0°03'38	morning set	3415 Apr 29 14:31	0° 8 28'34	
minimum elong	3414 May 23 20:15	3° I 06'17		max. Earth dist.	3415 May 04 02:52	9° 8 25'30	1.33943 AU
behind sun begin	3414 May 23 15:04	2° I 38'27	0 03 3 7	man. Darun alov.	5 116 111ay 0 1 02.02	, 02030	1.557 .5 110
behind sun end	3414 May 24 01:25	3° Ⅱ 34'09		superior conj	3415 May 07 22:46	17° 8 20'22	-0°32'01
asc. node	3414 May 24 04:20	3° Ⅱ 49'52		minimum elong	3415 May 08 00:25	17° 8 29'04	
evening rise	3414 May 30 20:54	18° Ⅱ 14'40		asc. node	3415 May 11 01:23	23° 8 54'35	
C	3414 Jun 05 15:47	0ಂತ			3415 May 13 22:18	0°II	
evening max el	3414 Jun 22 21:30	25°520'37	23°16'01	evening rise	3415 May 15 07:28	2° Ⅱ 54'19	
-	3414 Jun 28 23:08	$0^{\circ}\Omega$		•	3415 May 30 13:27	0ంతె	
desc. node	3414 Jun 30 13:40	0° Ω 48'07		evening max el	3415 Jun 04 15:15	5° © 52'21	21°41'31
retrograde	3414 Jul 06 09:46	2° Ω 05'35		retrograde	3415 Jun 17 01:19	11° © 59'33	
evening set	3414 Jul 10 04:26	1° Ω 34'23		desc. node	3415 Jun 17 10:42	11° © 59'12	
	3414 Jul 14 05:33	30° ₹ 5		evening set	3415 Jun 19 14:16	11° 5 °45'00	
min. Earth dist.	3414 Jul 17 07:07	28° © 20'14	0.55683 AU	inferior conj	3415 Jun 28 23:30	7° © 43'14	-3°13'37
inferior conj	3414 Jul 19 03:34	27° © 15'02	-4°34'54	minimum elong	3415 Jun 28 15:25	7° 9 54'31	3°11'11
minimum elong	3414 Jul 18 20:52	27° © 24'54	4°33'45	min. Earth dist.	3415 Jun 28 18:00	7° © 50'55	0.54907 AU
morning rise	3414 Jul 27 15:42	23° © 21'43		morning rise	3415 Jul 07 17:45	3° 5 49'51	
direct	3414 Jul 30 12:21	23° © 01'55		direct	3415 Jul 10 23:39	3° 5 26'48	
morning max el	3414 Aug 10 03:51	27° © 58'21	20°25'29	morning max el	3415 Jul 23 05:20	9° 5 12'00	21°55'09
	3414 Aug 12 03:55	$0^{\circ}\Omega$			3415 Aug 06 21:46	$0^{\circ}\Omega$	
asc. node	3414 Aug 20 03:36	11° Ω 13'53		asc. node	3415 Aug 07 00:38	0° Ω 13′19	
morning set	3414 Aug 28 21:00	27° Ω 50′24		morning set	3415 Aug 13 06:32	12° Ω 38′52	
	3414 Aug 29 22:16	0° m ∕					
				superior conj	3415 Aug 20 11:55	27° Ω 54'28	1°41'37
superior conj	3414 Sep 05 11:14	13° ™ 27'06	1°44'44	minimum elong	3415 Aug 20 10:42	27° Ω 48′06	1°41'34
minimum elong	3414 Sep 05 11:20	13° m 27'37	1°44'44		3415 Aug 21 11:54	0° ™	
max. Earth dist.	3414 Sep 10 13:53	23° Mp 34'44	1.36324 AU	max. Earth dist.	3415 Aug 24 03:54	5°₩29'46	1.34673 AU
	3414 Sep 13 23:20	0∘ ত		evening rise	3415 Aug 28 15:32	14° m 23'22	
evening rise	3414 Sep 14 12:29	1° ≏ 00'43			3415 Sep 06 05:36	0∘ ⊽	
desc. node	3414 Sep 26 12:59	21° ≏ 32'43		desc. node	3415 Sep 13 10:01	11° ≏ 38'54	
	3414 Oct 02 02:01	0°M₊			3415 Sep 26 20:23	0° M	
evening max el	3414 Oct 20 05:20	22°M44'20	26°02'50	evening max el	3415 Oct 02 17:52	6° ™ 20'34	26°54'59
retrograde	3414 Nov 01 18:30	29°M51'25		retrograde	3415 Oct 15 21:32	13°M36'44	
evening set	3414 Nov 07 23:39	27°M17'25		evening set	3415 Oct 22 15:10	10°M55'15	
min. Earth dist.	3414 Nov 12 05:40	22°M44'39	0.66710 AU	min. Earth dist.	3415 Oct 26 14:21		0.65608 AU
inferior conj	3414 Nov 13 15:52	20°M58'00	-0°50'31	inferior conj	3415 Oct 28 12:27	4°M45'32	
minimum elong	3414 Nov 13 17:13	20°M53'49	0°49'56	minimum elong	3415 Oct 28 15:31	4°M36'42	1°49'14
asc. node	3414 Nov 16 02:50	18°ML02'08			3415 Nov 02 06:32	30°Ŗ Ω	
morning rise	3414 Nov 19 11:11	15°M07'06		asc. node	3415 Nov 02 23:53	29° Ω 30'29	
direct	3414 Nov 22 14:49	14°M 10'16		morning rise	3415 Nov 03 16:39	29° Ω 06'48	
morning max el	3414 Nov 29 10:49	17°M57'22	18°53'34	direct	3415 Nov 06 11:44	28° Ω 23'59	
	3414 Dec 08 16:34	0° √			3415 Nov 10 18:50	0°M	
morning set	3414 Dec 21 08:51	19° ∡ 37'01		morning max el	3415 Nov 13 00:28	1°M55'47	18°15'38
desc. node	3414 Dec 23 12:17	22° х 58'40		morning set	3415 Dec 01 22:55	0° ∡ 01'25	
TO ALLEY	3414 Dec 27 23:49	0°る	1 45050 411		3415 Dec 01 22:34	0° ⊼ ¹	
max. Earth dist.	3415 Jan 05 09:23	13° 5 10'17	1.45079 AU	desc. node	3415 Dec 10 09:18	13° ≯ 38′08	
avmoni ·	2415 Ic. 06 21 12	150=201110	1927/50	avmoni '	2415 D 16 22 42	240.706127	0042152
superior conj	3415 Jan 06 21:13	15° る 31'12		superior conj	3415 Dec 16 23:43	24° ₹ 06'27	
minimum elong	3415 Jan 06 12:04	14°る55'12	1°27'02	minimum elong	3415 Dec 16 18:09	23° x ⁷ 44'30	
avanina riaa	3415 Jan 16 00:17 3415 Jan 22 02:37	0° ≈ 9° ≈ 49'17		max. Earth dist.	3415 Dec 19 04:54	27° メ 35'40 0°る	1.45189 AU
evening rise		9° × 49°17 0° ∀		avanina riaa	3415 Dec 20 17:41		
avanina may al	3415 Feb 03 16:52 3415 Feb 11 19:27	10° X	18°40'37	evening rise	3416 Jan 02 06:31 3416 Jan 08 22:47	19°る35'20 0°≈	
evening max el asc. node	3415 Feb 11 19:27 3415 Feb 12 02:07	10° X 44 33	10 403/	greatest brilliancy	3416 Jan 08 22:47 3416 Jan 13 20:40	0°≈ 7°≈34'18	-0.7m
retrograde	3415 Feb 12 02:07 3415 Feb 18 10:36	14° X 01'36		evening max el	3416 Jan 13 20:40 3416 Jan 26 03:37	7°≈34°18 24°≈14'36	-0.7m 19°23'37
evening set	3415 Feb 18 10:36 3415 Feb 21 15:00	13° H 28'11		asc. node	3416 Jan 29 23:10	24°≈14'36 27°≈21'27	1/4331
inferior conj	3415 Feb 27 08:20	7° ¥ 50'38	3°34'33	retrograde	3416 Feb 02 07:13	27 ≈21 27 28°≈20'56	
minimum elong	3415 Feb 27 08:20 3415 Feb 27 07:12	7° ∺ 54'04	3°34'28	evening set	3416 Feb 02 07:13 3416 Feb 05 18:35	28 ≈20 36 27°≈10'18	
min. Earth dist.	3415 Mar 01 06:05	5° ∺ 32'09	0.65094 AU	inferior conj	3416 Feb 11 06:46	21°≈16'53	3°17'07
morning rise	3415 Mar 04 22:56	1° ∺ 39'43	0.00077 AU	minimum elong	3416 Feb 11 04:40	21°≈23'42	
	3415 Mar 07 07:01	1 7(3)43 30°R≈		min. Earth dist.	3416 Feb 12 13:26	19°≈37'17	0.66411 AU
direct	3415 Mar 11 15:35	28°≈48'43		morning rise	3416 Feb 16 14:31	15°≈03'35	3.00 111 110
	5.10 1.1u1 11 10.55	20.0.1043			5.10100 10 17.51	10.0000	

							
direct	3416 Feb 22 20:34	12° ≈ 17'15		morning rise	3417 Jan 30 14:35	28° る 40'52	
morning max el	3416 Mar 06 08:52	19° ≈ 43'21	25°59'49	direct	3417 Feb 05 07:02	26° る 08'57	
desc. node	3416 Mar 07 08:32	20° ≈ 44'22			3417 Feb 13 12:10	0° ≈	
	3416 Mar 15 03:46	0° ∀		morning max el	3417 Feb 16 17:34	2°≈59'00	24°37'37
	3416 Apr 04 01:24	0° Y		desc. node	3417 Feb 22 05:35	9° ≈ 08'57	
morning set	3416 Apr 11 13:36	13° Ƴ 18'35			3417 Mar 09 08:08	0° ∀	
max. Earth dist.	3416 Apr 15 11:10	20° Ƴ 40'41	1.35465 AU	morning set	3417 Mar 24 17:59	25° ₩ 10'30	
	3416 Apr 20 04:25	$B_{\circ 0}$			3417 Mar 27 10:53	$0^{\circ}\mathbf{\Upsilon}$	
				max. Earth dist.	3417 Mar 28 09:27	1° Y 42'29	1.37388 AU
superior conj	3416 Apr 20 18:00	1° 8 08'40	-1°00'45				
minimum elong	3416 Apr 20 21:11	1° 8 24'51	1°00'10	superior conj	3417 Apr 04 02:35	14° Ƴ 21'36	-1°27'53
asc. node	3416 Apr 26 22:27	13° 8 51'51		minimum elong	3417 Apr 04 06:57	14° Ƴ 42'49	
evening rise	3416 Apr 28 14:45	17° 8 19'13		g	3417 Apr 11 23:56	0°8	1 2, 10
evening rise	3416 May 05 01:42	0°II		evening rise	3417 Apr 12 16:22	1° 8 21'57	
evening max el	3416 May 16 19:38	16° ∏ 55'12	20010158	asc. node	3417 Apr 12 10:22	3° 8 36'41	
retrograde	3416 May 27 14:56	22° I I1'05	20 19 38	evening max el	3417 Apr 13 13:31 3417 Apr 29 12:05	28° 8 38'58	19°16'58
-	-	22° I [11'03		evening max er	*	28 O 38 38 0° Ⅱ	19 10 36
evening set	3416 May 29 14:54				3417 May 01 00:22		
desc. node	3416 Jun 03 07:44	20° Ⅲ 27'55	1010100	retrograde	3417 May 08 14:39	3° Ⅱ 04'25	
inferior conj	3416 Jun 07 18:17	18° Ⅲ 02'45		evening set	3417 May 10 15:26	2° ∏ 52'09	
minimum elong	3416 Jun 07 14:35	18° Ⅲ 08'10			3417 May 17 02:35	30° ₹8	
min. Earth dist.	3416 Jun 09 06:22	17° Ⅱ 09'52	0.55070 AU	inferior conj	3417 May 19 01:50	28° 8 43'22	
morning rise	3416 Jun 16 13:04	13° Ⅱ 48'53		minimum elong	3417 May 19 03:20	28° 8 40'51	0°36'19
direct	3416 Jun 20 10:17	13° Ⅱ 16′17		desc. node	3417 May 21 04:46	27° 8 18'39	
morning max el	3416 Jul 03 22:25	19° Ⅱ 50'48	23°36'43	min. Earth dist.	3417 May 21 21:13	26° 8 51'56	0.56162 AU
	3416 Jul 12 11:28	0 \circ \mathfrak{S}		morning rise	3417 May 27 12:12	23° 8 55'22	
asc. node	3416 Jul 23 21:41	19° © 39'33		direct	3417 Jun 01 08:09	23° 8 01'40	
morning set	3416 Jul 27 18:02	27° © 33'27			3417 Jun 15 06:06	0° I I	
	3416 Jul 28 21:40	0°N		morning max el	3417 Jun 15 12:37	0° Ⅱ 15'27	25°17'12
	2.10041 20 21.10	° 00		morning man er	3417 Jul 06 01:25	0°9	20 1, 12
superior conj	3416 Aug 03 18:31	12° Ω 39'32	1°32'27	asc. node	3417 Jul 10 18:45	9° 5 24'24	
minimum elong	•	$12^{\circ}\Omega 28'34$	1°32'16		3417 Jul 10 18:43	12° © 27'41	
Č	3416 Aug 03 16:29			morning set	341/Jul 12 03.44	12 902/41	
max. Earth dist.	3416 Aug 06 02:54	17° Ω 41'04	1.33415 AU		2417 1 1 10 04 27	270522125	1010112
evening rise	3416 Aug 11 07:03	28° Ω 22'20		superior conj	3417 Jul 19 04:37	27° © 33'25	1°18'12
	3416 Aug 12 02:40	0° m)		minimum elong	3417 Jul 19 02:16	27° © 20'32	1°17'52
	3416 Aug 29 09:42	0 ்⊽			3417 Jul 20 07:27	$0^{\circ}\Omega$	
desc. node	3416 Aug 30 07:03	1° ≏ 18'54		max. Earth dist.	3417 Jul 20 09:20		1.32572 AU
evening max el	3416 Sep 14 05:35	19° ≏ 40'26	27°23'11	evening rise	3417 Jul 26 07:22	12° Ω 46'16	
retrograde	3416 Sep 27 18:46	26° ≏ 58'29			3417 Aug 04 06:03	0° m p	
evening set	3416 Oct 04 21:09	24° ≙ 18′00		desc. node	3417 Aug 17 04:04	20° m/20'50	
min. Earth dist.	3416 Oct 08 14:28	20° £ 56′00	0.64156 AU		3417 Aug 25 02:24	0∘ ত	
inferior conj	3416 Oct 11 01:00	18° ≏ 22'19	-2°50'51	evening max el	3417 Aug 27 14:27	2° £ 30'46	27°21'38
minimum elong	3416 Oct 11 05:42	18° ≏ 09'58	2°49'12	retrograde	3417 Sep 10 09:33	9° ≏ 46'23	
morning rise	3416 Oct 17 15:28	12° ≏ 58'55		evening set	3417 Sep 17 14:06	7° £ 18'43	
asc. node	3416 Oct 19 20:55	12° £ 26'55		min. Earth dist.	3417 Sep 21 04:32	4° Ω 25'02	0.62379 AU
direct	3416 Oct 20 04:24	12° Ω 26'26		inferior conj	3417 Sep 24 02:35	1° ≏ 40'53	
morning max el	3416 Oct 26 16:49	15° £ 52'03	17°54'42	minimum elong	3417 Sep 24 08:18	1° £ 27'26	
morning max cr	3416 Nov 05 17:44	0°M	17 3442	minimum ciong	3417 Sep 25 22:39	30°R, Mp	3 40 30
morning set	3416 Nov 12 16:57	11°M47'26		morning rise	3417 Oct 01 04:09	26° m/35'58	
morning set		0°×7		direct		-	
	3416 Nov 23 13:38	0 x.			3417 Oct 03 13:37	26° m 10'24	
	241637 25 16 50	20 30011	0000151	asc. node	3417 Oct 06 17:57	26° m 56'54	15051120
superior conj	3416 Nov 25 16:59	3° ₹ 29'14	0°03'51	morning max el	3417 Oct 10 08:47		17°51'38
minimum elong	3416 Nov 25 17:25	3° ∡ 31′00	0°03'47		3417 Oct 10 17:27	0∘ ⊽	
behind sun begin	3416 Nov 25 07:33	2° ∡ 50'57		morning set	3417 Oct 26 08:54	24° ≏ 36′10	
behind sun end	3416 Nov 26 03:17	4° ≯ 10'58			3417 Oct 29 09:24	0°M₊	
desc. node	3416 Nov 26 06:21	4° ∡ ¹23'25					
max. Earth dist.	3416 Nov 30 23:27	11° ∡ 56′29	1.44562 AU	superior conj	3417 Nov 06 12:04	14°M08'13	0°44'59
evening rise	3416 Dec 11 18:28	28° ₰ ⁴47'06		minimum elong	3417 Nov 06 15:54	14°M24'28	0°44'28
	3416 Dec 12 13:27	5°0		desc. node	3417 Nov 13 03:23	25°M10'49	
	3417 Jan 01 20:57	0° ≈		max. Earth dist.	3417 Nov 13 14:16	25°M55'05	1.43283 AU
evening max el	3417 Jan 08 06:49	7° ≈ 45'49	20°21'46		3417 Nov 16 03:02	0° ∡ 7	
asc. node	3417 Jan 15 20:13	12° ≈ 25'04		evening rise	3417 Nov 21 05:07	8° ∡ *01'34	
retrograde	3417 Jan 16 05:20	12°≈25'52			3417 Dec 05 19:44	0°පි	
evening set	3417 Jan 20 01:08	12 ≈ 23 32 11° ≈ 01'04		evening max el	3417 Dec 03 19:44 3417 Dec 22 04:29	00 21° る 18'24	21°32'04
•			2010156	•		21°618'24 26° る 36'54	41 J4 U4
inferior conj	3417 Jan 25 10:28	4°≈54'36 5°≈03'07	2°48'56	retrograde	3417 Dec 31 02:50		
minimum elong	3417 Jan 25 07:57	5°≈03'07	2°48'16	asc. node	3418 Jan 02 17:14	26°る00'02	
min. Earth dist.	3417 Jan 26 03:32	3°≈56'36	0.67311 AU	evening set	3418 Jan 04 08:49	24°₹56'47	2012101
	3417 Jan 29 07:02	30°Ŗ⋜		inferior conj	3418 Jan 09 17:09	18° る 40'28	2~12'04

minimum elong	3418 Jan 09 14:44	18° る 48'50	2°11'16		3418 Dec 26 21:36	30°R <i>≯</i> 7	
min. Earth dist.	3418 Jan 09 22:06	18° る 23'21	0.67815 AU	morning rise	3418 Dec 30 05:54	26° ₹ 22'13	
morning rise	3418 Jan 14 20:28	10 3 23 21	0.07013710	direct	3419 Jan 03 16:59	24° × 33'29	
direct	3418 Jan 19 22:12	12 3 2616		morning max el	3419 Jan 12 15:46	29° х 47'29	21°42'42
morning max el	3418 Jan 30 02:41	16° る 19'41	23°08'51	morning max or	3419 Jan 12 20:43	0°る	21 12 12
desc. node	3418 Feb 09 02:37	28° る 19'09	25 00 51	desc. node	3419 Jan 26 23:37	0 3 18° る 01'29	
dese. Hode	3418 Feb 10 08:33	0°≈		dese. Hode	3419 Feb 04 03:09	0°≈	
	3418 Mar 02 08:55	0° ∀		morning set	3419 Feb 13 19:49	15°≈02'07	
morning set	3418 Mar 05 21:27	5°) (48'12		max. Earth dist.	3419 Feb 20 03:30	25°≈18'54	1.41661 AU
max. Earth dist.	3418 Mar 10 04:13		1.39544 AU	max. Earth dist.	3419 Feb 22 22:37	0° ∀	1.11001710
max. Dartii dist.	31101011111111101011113	13 7(03 11	1.57511110		3117100 22 22.31	٥٨	
superior conj	3418 Mar 17 20:31	26°) 49′26	-1°50'31	superior conj	3419 Feb 27 18:44	8°) 19'17	-2°04'38
minimum elong	3418 Mar 18 00:58	27° ¥ 09'58		minimum elong	3419 Feb 27 21:04	8° ¥ 29'28	
	3418 Mar 19 13:33	$_{0}^{\circ}\Upsilon$		evening rise	3419 Mar 10 14:16	27°)(49'41	
evening rise	3418 Mar 27 09:26	14° Y 55'14		8	3419 Mar 11 18:38	$0^{\circ}\Upsilon$	
asc. node	3418 Mar 31 16:33	23° Y ′04'12		asc. node	3419 Mar 18 13:35	12° Y '07'37	
	3418 Apr 04 13:50	0°8		evening max el	3419 Mar 26 23:26	23° Y 50'34	18°11'17
evening max el	3418 Apr 12 14:30	11° 8 00'39	18°34'07	retrograde	3419 Apr 02 20:25	27°Υ18'25	
retrograde	3418 Apr 20 08:20	14° 8 48'51	10 3 . 0 /	evening set	3419 Apr 05 09:50	26° Y 50'18	
evening set	3418 Apr 22 15:18	14° 8 30'00		inferior conj	3419 Apr 12 06:50	22°Υ01'52	3°03'32
inferior conj	3418 Apr 30 05:51	10° 8 02'35	2°06'31	minimum elong	3419 Apr 12 09:59	21° Y 54'43	3°02'57
minimum elong	3418 Apr 30 09:35	9° 8 55'21	2°05'27	min. Earth dist.	3419 Apr 15 15:15	19° Υ 01'21	0.60090 AU
min. Earth dist.	3418 May 03 15:30	7° 8 25'24	0.57954 AU	morning rise	3419 Apr 19 07:50	16°Υ16'11	0.00070710
morning rise	3418 May 08 00:42	4° 8 41'21	0.57954 AU	desc. node	3419 Apr 24 22:50	14° Y 17'10	
desc. node	3418 May 08 01:48	4° 8 40'02		direct	3419 Apr 25 20:58	14° Υ 14'47	
	•	3° 8 15'24			3419 May 10 04:27		27°34'28
direct	3418 May 13 20:27	_	26940150	morning max el	•	0° 8	27 34 28
morning max el	3418 May 28 05:31	10° ႘ 53'30 0° Ⅱ	26°40'50		3419 May 17 03:03	0°U	
	3418 Jun 11 23:25	0°П 27°П16'21			3419 Jun 04 23:41	0° П 11° П 53'41	
morning set	3418 Jun 26 16:03			morning set	3419 Jun 10 23:16		
asc. node	3418 Jun 27 15:48	29° Ⅱ 22'04		asc. node	3419 Jun 14 12:50	19° Ⅱ 27'19	1 22102 444
	3418 Jun 27 22:55	0° ©		max. Earth dist.	3419 Jun 17 07:58	25° ∏ 33'13	1.32102 AU
superior conj	3418 Jul 03 16:18	12° © 29'42	0°59'37	superior conj	3419 Jun 18 03:48	27° ∏ 22'12	0°37'21
minimum elong	3418 Jul 03 14:06	12° © 17'37	0°59'13	minimum elong	3419 Jun 18 02:13	27° I I3'31	0°37'21
max. Earth dist.	3418 Jul 03 20:13	12° 9 51'19	1.32139 AU	minimum clong	3419 Jun 19 08:27	0°95	0 3700
evening rise	3418 Jul 10 13:42	27°\$26'32	1.32139 AU	evening rise	3419 Jun 24 23:43	12° © 15'20	
evening rise	3418 Jul 11 19:09	27 3 20 32		evening rise	3419 Jul	0°Ω	
	3418 Jul 28 17:04			desc. node	3419 Jul 21 22:05	25° Ω 22'01	
JJ.		0° m/20100			3419 Jul 21 22:03 3419 Jul 22 14:27		25940127
desc. node	3418 Aug 04 01:04	8° Mp 29'09	26946154	evening max el		26° Ω 01'48	25-40/37
evening max el	3418 Aug 09 18:04	14° Mp 40'09	26°46'54		3419 Jul 27 11:31	0° Mp	
retrograde	3418 Aug 23 16:34	21° Mp 51'34		retrograde	3419 Aug 05 13:59	3° Mp 08'53	
evening set	3418 Aug 30 13:33	19° Mp 49'53	0.60274.411	evening set	3419 Aug 11 14:46	1° Mp 43'13	
min. Earth dist.	3418 Sep 03 08:08	17° Mp 12'30	0.60374 AU	. D. d. U.	3419 Aug 14 17:20	30°RΩ	0.50210.411
inferior conj	3418 Sep 06 13:50	14° Tp 32'52		min. Earth dist.	3419 Aug 16 02:33	29° Ω 05'03	0.58318 AU
minimum elong	3418 Sep 06 19:03	14° Mp 22'07	4°35'04	inferior conj	3419 Aug 19 07:16	26° Ω 48'31	
morning rise	3418 Sep 14 02:29	9° m 49'18		minimum elong	3419 Aug 19 09:19	26° Ω 44'51	5°04'21
direct	3418 Sep 16 11:36	9° m 27'44		morning rise	3419 Aug 27 06:07	22° Ω 28'00	
asc. node	3418 Sep 23 15:00	12° m 51'24	10005140	direct	3419 Aug 29 18:00	22° Ω 08'16	10044117
morning max el	3418 Sep 23 21:10	13° Mp 06'05	18°07'40	morning max el	3419 Sep 07 02:46	26° Ω 07'02	18°44'17
	3418 Oct 05 06:51	0∘ ⊽		asc. node	3419 Sep 10 12:03	29° Ω 55'48	
morning set	3418 Oct 09 16:44	8° ≏ 10'15			3419 Sep 10 13:20	0° m/y	
		_		morning set	3419 Sep 23 11:45	22° m 16'52	
superior conj	3418 Oct 19 08:55	26° Ω 02'18	1°15'12		3419 Sep 27 10:34	0∘ ⊽	
minimum elong	3418 Oct 19 13:02	26° Ω 20'46	1°14'43			_	
	3418 Oct 21 14:25	0°M₊		superior conj	3419 Oct 02 02:41	8° ≏ 58'28	1°34'10
max. Earth dist.	3418 Oct 27 00:14	9° ™ 18'53	1.41515 AU	minimum elong	3419 Oct 02 05:29	9° ≏ 11'39	
desc. node	3418 Oct 31 00:22	15°M56'54		max. Earth dist.	3419 Oct 09 06:04		1.39476 AU
evening rise	3418 Nov 01 06:13	17° M 57'58		evening rise	3419 Oct 13 06:09	28° ≏ 57'30	
	3418 Nov 08 22:18	0° ∡			3419 Oct 13 20:56	0°M	
	3418 Nov 30 11:24	0°る		desc. node	3419 Oct 17 21:22	6°M38′29	
evening max el	3418 Dec 04 21:16	4° る 53'03	22°50'02		3419 Nov 02 09:29	0°⊀	
retrograde	3418 Dec 14 21:59	10° る 50'12		evening max el	3419 Nov 17 10:49	18° ∡ ³31′26	24°09'48
evening set	3418 Dec 19 15:59	8° ප 53'47		retrograde	3419 Nov 28 13:43	25° ₹ 02'58	
asc. node	3418 Dec 20 14:15	8° る 03'09		evening set	3419 Dec 03 21:06	22° ₹ 50′10	
inferior conj	3418 Dec 25 00:52	2° る 31'15	1°27'58	asc. node	3419 Dec 07 11:17	18° ₹ 53'49	
minimum elong	3418 Dec 24 23:00	2° る 37'41	1°27'16	min. Earth dist.	3419 Dec 08 14:53	17° ₹ 22'34	0.67744 AU
min. Earth dist.	3418 Dec 24 18:38	2° る 52'45	0.67954 AU	inferior conj	3419 Dec 09 07:52	16° ≯ 25'16	0°37'52

minimum elong	3419 Dec 09 06:58	16° ∡ 728'18	0°37'30	inferior conj	3420 Nov 22 12:22	0° ∡ 19'37	-0°17'08
morning rise	3419 Dec 14 16:52	10° ≯ 21'35		minimum elong	3420 Nov 22 12:48	0° ≯ 18'12	
direct	3419 Dec 18 14:21	8° ₹ 55'15		Č	3420 Nov 22 18:27	30° ₹M L	
morning max el	3419 Dec 26 12:04	13° ∡ 27′00	20°26'00	asc. node	3420 Nov 23 08:19	29°M15'41	
	3420 Jan 08 08:15	ರ°0		morning rise	3420 Nov 28 03:24	24°M23'26	
desc. node	3420 Jan 13 20:39	8° る 07'26		direct	3420 Dec 01 12:53	23°M17'01	
morning set	3420 Jan 23 19:32	23° る 16'58		morning max el	3420 Dec 08 16:19	27°M17'21	19°22'51
	3420 Jan 28 02:47	0° ≈			3420 Dec 11 03:26	0° ∡ ¹	
max. Earth dist.	3420 Feb 02 10:40	8° ≈ 28'43	1.43447 AU	greatest brilliancy	3420 Dec 22 02:12	15° ∡ 16′01	-0.7m
				desc. node	3420 Dec 30 17:40	28° ⋌ ¹30'07	
superior conj	3420 Feb 08 16:24	18° ≈ 40'37	-2°05'04		3420 Dec 31 16:55	0°ප	
minimum elong	3420 Feb 08 13:46		2°05'00	morning set	3421 Jan 01 18:27	1° る 38'50	
	3420 Feb 15 09:16	0° ∀		max. Earth dist.	3421 Jan 15 00:20	22° る 20'19	1.44673 AU
evening rise	3420 Feb 21 02:45	9° ∺ 56'59				_	
	3420 Mar 03 24:00	0° Υ		superior conj	3421 Jan 18 12:25	27° る 53'59	
asc. node	3420 Mar 04 10:36	0° Υ 39'24		minimum elong	3421 Jan 18 04:20	27° る 21'43	1°46'27
evening max el	3420 Mar 09 11:35	6° Y 59'55	18°07'59		3421 Jan 19 19:58	0° ≈	
retrograde	3420 Mar 15 23:07	10° Y 22'55		evening rise	3421 Feb 01 18:37	21°≈09'25	
evening set	3420 Mar 18 18:14	9° Υ 44'11	2022102		3421 Feb 07 01:58	0°)	
inferior conj	3420 Mar 25 01:34	4°Υ35'20	3°32'02	asc. node	3421 Feb 19 07:38	18° ¥ 29'54	10022124
minimum elong	3420 Mar 25 03:00		3°31'55	evening max el	3421 Feb 21 00:04	20°) €21'17	18°23'34
min. Earth dist.	3420 Mar 27 23:11	1° Υ 36'12	0.62230 AU	retrograde	3421 Feb 27 11:41	23°\(\)52'38	
	3420 Mar 29 16:07	30° ₹ 28° ¥ 34'39		evening set	3421 Mar 02 12:26	23° ₩ 02'21	2020124
morning rise	3420 Mar 31 10:23			inferior conj	3421 Mar 08 09:56	17° 米 34'49 17° 米 35'44	
direct desc. node	3420 Apr 07 07:28	26° 升 03'52 26° 升 39'29		minimum elong min. Earth dist.	3421 Mar 10 16:44	14° H 57'13	3°38'33 0.64140 AU
desc. node	3420 Apr 10 19:52 3420 Apr 16 20:05	20 π 3929 0° Υ		morning rise	3421 Mar 10 16:44 3421 Mar 14 06:03	14 X 37 13	0.04140 AU
morning max el	3420 Apr 21 09:32	4° Υ 01'28	27051114	direct	3421 Mar 21 02:16	8°\(\frac{11}{38}\)'16	
morning max ci	3420 May 10 17:56	0° 8	27 31 14	desc. node	3421 Mar 28 16:54	11° H 24'43	
morning set	3420 May 25 01:22	26° 8 13'10		morning max el	3421 Apr 03 18:30	16°) 33'57	27°31'18
morning set	3420 May 26 21:31	0°II		morning max ci	3421 Apr 14 21:26	0° Υ	27 31 10
max. Earth dist.	3420 May 30 16:36	8° I I02'32	1.32471 AU		3421 May 03 12:22	0°8	
asc. node	3420 May 31 09:52	9° I 35'46	1.521,1110	morning set	3421 May 08 19:49	10° 8 06'57	
				max. Earth dist.	3421 May 13 18:03	20° 8 06'44	1.33268 AU
superior conj	3420 Jun 01 13:24	12° Ⅱ 05'09	0°12'03		,		
minimum elong	3420 Jun 01 12:50	12° Ⅱ 02'05	0°11'55	superior conj	3421 May 16 19:16	26° 8 32'47	-0°15'31
behind sun begin	3420 Jun 01 09:24	11° Ⅱ 43′20		minimum elong	3421 May 16 20:03	26° 8 36'57	0°15'21
behind sun begin behind sun end					•	_	0°15'21
_	3420 Jun 01 09:24	11° II 43'20		minimum elong	3421 May 16 20:03	26° 8 36'57	0°15'21
behind sun end	3420 Jun 01 09:24 3420 Jun 01 16:17	11° Д 43'20 12° Д 20'50		minimum elong behind sun begin	3421 May 16 20:03 3421 May 16 18:34	26° 8 36'57 26° 8 29'01	0°15'21
behind sun end	3420 Jun 01 09:24 3420 Jun 01 16:17 3420 Jun 08 11:27	11°Д43'20 12°Д20'50 27°Д05'43		minimum elong behind sun begin behind sun end	3421 May 16 20:03 3421 May 16 18:34 3421 May 16 21:32	26°\dagge\da	0°15'21
behind sun end	3420 Jun 01 09:24 3420 Jun 01 16:17 3420 Jun 08 11:27 3420 Jun 09 20:30	11°II43'20 12°II20'50 27°II05'43 0°©	24°11'36	minimum elong behind sun begin behind sun end	3421 May 16 20:03 3421 May 16 18:34 3421 May 16 21:32 3421 May 18 06:56	26°\dagge\da	0°15'21
behind sun end evening rise	3420 Jun 01 09:24 3420 Jun 01 16:17 3420 Jun 08 11:27 3420 Jun 09 20:30 3420 Jun 27 06:35	11°Π43'20 12°Π20'50 27°Π05'43 0°© 0°Ω	24°11'36	minimum elong behind sun begin behind sun end asc. node	3421 May 16 20:03 3421 May 16 18:34 3421 May 16 21:32 3421 May 18 06:56 3421 May 18 10:00	26°\delta36'57 26°\delta29'01 26°\delta4'54 29°\delta3'28 0°\Pi	0°15'21
behind sun end evening rise	3420 Jun 01 09:24 3420 Jun 01 16:17 3420 Jun 08 11:27 3420 Jun 09 20:30 3420 Jun 27 06:35 3420 Jul 03 04:32 3420 Jul 07 19:07 3420 Jul 17 00:05	11°∏43'20 12°∏20'50 27°∏05'43 0°\$ 0°\$Ω 6°\$\Omega_41'56	24°11'36	minimum elong behind sun begin behind sun end asc. node	3421 May 16 20:03 3421 May 16 18:34 3421 May 16 21:32 3421 May 18 06:56 3421 May 18 10:00 3421 May 23 23:00	26°\delta36'57 26°\delta29'01 26°\delta4'54 29°\delta43'28 0°\II 11°\II51'31	
behind sun end evening rise evening max el desc. node	3420 Jun 01 09:24 3420 Jun 01 16:17 3420 Jun 08 11:27 3420 Jun 09 20:30 3420 Jun 27 06:35 3420 Jul 03 04:32 3420 Jul 07 19:07	11° Π43'20 12° Π20'50 27° Π05'43 0° Φ 0° Ω 6° Ω41'56 10° Ω29'09	24°11'36	minimum elong behind sun begin behind sun end asc. node evening rise	3421 May 16 20:03 3421 May 16 18:34 3421 May 16 21:32 3421 May 18 06:56 3421 May 18 10:00 3421 May 23 23:00 3421 Jun 02 06:11	26°836'57 26°829'01 26°844'54 29°843'28 0°II 11°II51'31 0°S	
behind sun end evening rise evening max el desc. node retrograde	3420 Jun 01 09:24 3420 Jun 01 16:17 3420 Jun 08 11:27 3420 Jun 09 20:30 3420 Jun 27 06:35 3420 Jul 03 04:32 3420 Jul 07 19:07 3420 Jul 17 00:05 3420 Jul 21 16:09 3420 Jul 27 15:11	11° II 43'20 12° II 20'50 27° II 05'43 0° © 0° \(\Omega\) 6° \(\Omega\) 41'56 10° \(\Omega\) 29'09 13° \(\Omega\) 39'51 12° \(\Omega\) 54'26	0.56492 AU	minimum elong behind sun begin behind sun end asc. node evening rise evening max el	3421 May 16 20:03 3421 May 16 18:34 3421 May 16 21:32 3421 May 18 06:56 3421 May 18 10:00 3421 May 23 23:00 3421 Jun 02 06:11 3421 Jun 14 18:37 3421 Jun 24 16:08 3421 Jun 27 22:06	26°836'57 26°829'01 26°844'54 29°843'28 0°II 11°II51'31 0°S 17°S07'43 23°S15'37 23°S39'51	
behind sun end evening rise evening max el desc. node retrograde evening set min. Earth dist. inferior conj	3420 Jun 01 09:24 3420 Jun 01 16:17 3420 Jun 08 11:27 3420 Jun 09 20:30 3420 Jun 27 06:35 3420 Jul 03 04:32 3420 Jul 07 19:07 3420 Jul 17 00:05 3420 Jul 21 16:09 3420 Jul 27 15:11 3420 Jul 30 04:28	11° H43'20 12° H20'50 27° H05'43 0° © 0° \(\Omega \) 6° \(\Omega \) 13° \(\Omega \) 13° \(\Omega \) 12° \(\Omega \) 12° \(\Omega \) 51'22 9° \(\Omega \) 8° \(\Omega \) 19'02	0.56492 AU -4°59'05	minimum elong behind sun begin behind sun end asc. node evening rise evening max el desc. node retrograde evening set	3421 May 16 20:03 3421 May 16 18:34 3421 May 16 21:32 3421 May 18 06:56 3421 May 18 10:00 3421 May 23 23:00 3421 Jun 02 06:11 3421 Jun 14 18:37 3421 Jun 24 16:08 3421 Jun 27 22:06 3421 Jul 01 02:19	26°836'57 26°829'01 26°844'54 29°843'28 0°II 11°II51'31 0°S 17°S07'43 23°S15'37 23°S39'51 23°S17'39	22°34'51
evening max el desc. node retrograde evening set min. Earth dist. inferior conj minimum elong	3420 Jun 01 09:24 3420 Jun 01 16:17 3420 Jun 08 11:27 3420 Jun 09 20:30 3420 Jun 27 06:35 3420 Jul 03 04:32 3420 Jul 07 19:07 3420 Jul 17 00:05 3420 Jul 21 16:09 3420 Jul 27 15:11 3420 Jul 30 04:28 3420 Jul 30 00:51	11° H 43'20 12° H 20'50 27° H 05'43 0° S 0° A 6° A 41'56 10° A 29'09 13° A 39'51 12° A 51'22 9° A 54'26 8° A 19'02 8° A 24'42	0.56492 AU -4°59'05	minimum elong behind sun begin behind sun end asc. node evening rise evening max el desc. node retrograde evening set min. Earth dist.	3421 May 16 20:03 3421 May 16 18:34 3421 May 16 21:32 3421 May 18 06:56 3421 May 18 10:00 3421 May 23 23:00 3421 Jun 02 06:11 3421 Jun 14 18:37 3421 Jun 24 16:08 3421 Jun 27 22:06 3421 Jul 01 02:19 3421 Jul 09 02:14	26°836'57 26°829'01 26°844'54 29°843'28 0°II 11°II51'31 0°5 17°507'43 23°515'37 23°539'51 23°517'39 19°548'08	22°34'51 0.55244 AU
evening max el desc. node retrograde evening set min. Earth dist. inferior conj minimum elong morning rise	3420 Jun 01 09:24 3420 Jun 01 16:17 3420 Jun 08 11:27 3420 Jun 09 20:30 3420 Jun 27 06:35 3420 Jul 03 04:32 3420 Jul 07 19:07 3420 Jul 17 00:05 3420 Jul 21 16:09 3420 Jul 27 15:11 3420 Jul 30 04:28 3420 Jul 30 00:51 3420 Aug 07 12:12	11° II 43'20 12° II 20'50 27° II 05'43 0° © 0° Ω 6° Ω 41'56 10° Ω 29'09 13° Ω 39'51 12° Ω 51'22 9° Ω 54'26 8° Ω 19'02 8° Ω 24'42 4° Ω 18'56	0.56492 AU -4°59'05	minimum elong behind sun begin behind sun end asc. node evening rise evening max el desc. node retrograde evening set min. Earth dist. inferior conj	3421 May 16 20:03 3421 May 16 18:34 3421 May 16 21:32 3421 May 18 06:56 3421 May 18 10:00 3421 May 23 23:00 3421 Jun 02 06:11 3421 Jun 14 18:37 3421 Jun 24 16:08 3421 Jun 27 22:06 3421 Jul 01 02:19 3421 Jul 09 02:14 3421 Jul 10 07:26	26°836'57 26°829'01 26°844'54 29°843'28 0°11 11°1151'31 0°5 17°507'43 23°53'5'37 23°539'51 23°517'39 19°548'08 19°506'32	22°34'51 0.55244 AU -4°06'16
evening max el desc. node retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct	3420 Jun 01 09:24 3420 Jun 01 16:17 3420 Jun 08 11:27 3420 Jun 09 20:30 3420 Jun 27 06:35 3420 Jul 03 04:32 3420 Jul 07 19:07 3420 Jul 17 00:05 3420 Jul 21 16:09 3420 Jul 27 15:11 3420 Jul 30 04:28 3420 Jul 30 00:51 3420 Aug 07 12:12 3420 Aug 10 05:05	11° H43'20 12° H20'50 27° H05'43 0° © 0° N 6° N41'56 10° N29'09 13° N39'51 12° N51'22 9° N54'26 8° N19'02 8° N24'42 4° N18'56 3° N59'40	0.56492 AU -4°59'05 4°58'46	minimum elong behind sun begin behind sun end asc. node evening rise evening max el desc. node retrograde evening set min. Earth dist. inferior conj minimum elong	3421 May 16 20:03 3421 May 16 18:34 3421 May 16 21:32 3421 May 18 06:56 3421 May 18 10:00 3421 May 23 23:00 3421 Jun 02 06:11 3421 Jun 14 18:37 3421 Jun 24 16:08 3421 Jun 27 22:06 3421 Jul 01 02:19 3421 Jul 09 02:14 3421 Jul 10 07:26 3421 Jul 09 23:22	26°836'57 26°849'01 26°844'54 29°843'28 0°11 11°1151'31 0°5 17°507'43 23°5015'37 23°5015'37 23°5017'39 19°5048'08 19°506'32 19°5018'03	22°34'51 0.55244 AU -4°06'16
evening max el desc. node retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el	3420 Jun 01 09:24 3420 Jun 01 16:17 3420 Jun 08 11:27 3420 Jun 09 20:30 3420 Jun 27 06:35 3420 Jul 03 04:32 3420 Jul 07 19:07 3420 Jul 17 00:05 3420 Jul 21 16:09 3420 Jul 27 15:11 3420 Jul 30 04:28 3420 Jul 30 00:51 3420 Aug 07 12:12 3420 Aug 10 05:05 3420 Aug 19 22:33	11° H43'20 12° H20'50 27° H05'43 0° © 0° N 6° N41'56 10° N29'09 13° N39'51 12° N51'22 9° N54'26 8° N19'02 8° N24'42 4° N18'56 3° N59'40 8° N31'00	0.56492 AU -4°59'05	minimum elong behind sun begin behind sun end asc. node evening rise evening max el desc. node retrograde evening set min. Earth dist. inferior conj minimum elong morning rise	3421 May 16 20:03 3421 May 16 18:34 3421 May 16 21:32 3421 May 18 06:56 3421 May 18 10:00 3421 May 23 23:00 3421 Jun 02 06:11 3421 Jun 14 18:37 3421 Jun 24 16:08 3421 Jun 27 22:06 3421 Jul 01 02:19 3421 Jul 09 02:14 3421 Jul 10 07:26 3421 Jul 09 23:22 3421 Jul 18 22:34	26°836'57 26°849'01 26°844'54 29°843'28 0°II 11°II51'31 0°5 17°507'43 23°5015'37 23°5015'37 23°5017'39 19°506'32 19°506'32 19°5015'36	22°34'51 0.55244 AU -4°06'16
evening max el desc. node retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct	3420 Jun 01 09:24 3420 Jun 01 16:17 3420 Jun 08 11:27 3420 Jun 09 20:30 3420 Jun 27 06:35 3420 Jul 03 04:32 3420 Jul 07 19:07 3420 Jul 17 00:05 3420 Jul 21 16:09 3420 Jul 27 15:11 3420 Jul 30 04:28 3420 Jul 30 00:51 3420 Aug 07 12:12 3420 Aug 10 05:05 3420 Aug 19 22:33 3420 Aug 27 09:05	11° H43'20 12° H20'50 27° H05'43 0° © 0° N 6° N41'56 10° N29'09 13° N39'51 12° N51'22 9° N54'26 8° N19'02 8° N24'42 4° N18'56 3° N59'40 8° N31'00 17° N54'33	0.56492 AU -4°59'05 4°58'46	minimum elong behind sun begin behind sun end asc. node evening rise evening max el desc. node retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct	3421 May 16 20:03 3421 May 16 18:34 3421 May 16 21:32 3421 May 18 06:56 3421 May 18 10:00 3421 May 23 23:00 3421 Jun 02 06:11 3421 Jun 14 18:37 3421 Jun 24 16:08 3421 Jun 27 22:06 3421 Jul 01 02:19 3421 Jul 09 02:14 3421 Jul 09 02:14 3421 Jul 09 23:22 3421 Jul 18 22:34 3421 Jul 21 22:21	26°836'57 26°829'01 26°844'54 29°843'28 0° II 11°II51'31 0°5 17°507'43 23°5015'37 23°5015'37 23°5015'37 19°5048'08 19°506'32 19°518'03 15°515'36 14°555'06	22°34'51 0.55244 AU -4°06'16 4°04'23
evening rise evening max el desc. node retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node	3420 Jun 01 09:24 3420 Jun 01 16:17 3420 Jun 08 11:27 3420 Jun 09 20:30 3420 Jun 27 06:35 3420 Jul 03 04:32 3420 Jul 07 19:07 3420 Jul 17 00:05 3420 Jul 21 16:09 3420 Jul 27 15:11 3420 Jul 30 04:28 3420 Jul 30 00:51 3420 Aug 07 12:12 3420 Aug 10 05:05 3420 Aug 19 22:33 3420 Aug 27 09:05 3420 Sep 03 04:35	11° H43'20 12° H20'50 27° H05'43 0° G 0° N 6° N41'56 10° N29'09 13° N39'51 12° N51'22 9° N54'26 8° N19'02 8° N24'42 4° N18'56 3° N59'40 8° N31'00 17° N54'33 0° M	0.56492 AU -4°59'05 4°58'46	minimum elong behind sun begin behind sun end asc. node evening rise evening max el desc. node retrograde evening set min. Earth dist. inferior conj minimum elong morning rise	3421 May 16 20:03 3421 May 16 18:34 3421 May 16 21:32 3421 May 18 06:56 3421 May 18 10:00 3421 May 23 23:00 3421 Jun 02 06:11 3421 Jun 14 18:37 3421 Jun 24 16:08 3421 Jun 27 22:06 3421 Jul 01 02:19 3421 Jul 09 02:14 3421 Jul 10 07:26 3421 Jul 09 23:22 3421 Jul 18 22:34 3421 Jul 21 22:21 3421 Aug 02 06:48	26°836'57 26°829'01 26°844'54 29°843'28 0° II 11°II 51'31 0°55 17°507'43 23°5015'37 23°5015'37 23°5015'37 23°5015'37 19°5048'08 19°506'32 19°518'03 15°515'36 14°555'06 20°5011'38	22°34'51 0.55244 AU -4°06'16 4°04'23
evening max el desc. node retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el	3420 Jun 01 09:24 3420 Jun 01 16:17 3420 Jun 08 11:27 3420 Jun 09 20:30 3420 Jun 27 06:35 3420 Jul 03 04:32 3420 Jul 07 19:07 3420 Jul 17 00:05 3420 Jul 21 16:09 3420 Jul 27 15:11 3420 Jul 30 04:28 3420 Jul 30 00:51 3420 Aug 07 12:12 3420 Aug 10 05:05 3420 Aug 19 22:33 3420 Aug 27 09:05	11° H43'20 12° H20'50 27° H05'43 0° © 0° N 6° N41'56 10° N29'09 13° N39'51 12° N51'22 9° N54'26 8° N19'02 8° N24'42 4° N18'56 3° N59'40 8° N31'00 17° N54'33	0.56492 AU -4°59'05 4°58'46	minimum elong behind sun begin behind sun end asc. node evening rise evening max el desc. node retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el	3421 May 16 20:03 3421 May 16 18:34 3421 May 16 21:32 3421 May 18 06:56 3421 May 18 10:00 3421 May 23 23:00 3421 Jun 02 06:11 3421 Jun 14 18:37 3421 Jun 24 16:08 3421 Jun 27 22:06 3421 Jul 01 02:19 3421 Jul 09 02:14 3421 Jul 10 07:26 3421 Jul 09 23:22 3421 Jul 18 22:34 3421 Jul 21 22:21 3421 Aug 02 06:48 3421 Aug 10 06:15	26°836'57 26°829'01 26°844'54 29°843'28 0° II 11°II51'31 0°5 17°507'43 23°5015'37 23°5015'37 23°5015'37 19°5048'08 19°506'32 19°518'03 15°515'36 14°555'06 20°511'38 0°\$\$\lambda\$	22°34'51 0.55244 AU -4°06'16 4°04'23
behind sun end evening rise evening max el desc. node retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node morning set	3420 Jun 01 09:24 3420 Jun 01 16:17 3420 Jun 08 11:27 3420 Jun 09 20:30 3420 Jun 27 06:35 3420 Jul 03 04:32 3420 Jul 07 19:07 3420 Jul 17 00:05 3420 Jul 21 16:09 3420 Jul 27 15:11 3420 Jul 30 04:28 3420 Jul 30 00:51 3420 Aug 07 12:12 3420 Aug 10 05:05 3420 Aug 19 22:33 3420 Aug 27 09:05 3420 Sep 03 04:35 3420 Sep 06 14:23	11° H43'20 12° H20'50 27° H05'43 0° © 0° N 6° N41'56 10° N29'09 13° N39'51 12° N51'22 9° N54'26 8° N19'02 8° N24'42 4° N18'56 3° N59'40 8° N31'00 17° N54'33 0° M 6° M45'17	0.56492 AU -4°59'05 4°58'46 19°42'28	minimum elong behind sun begin behind sun end asc. node evening rise evening max el desc. node retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node	3421 May 16 20:03 3421 May 16 18:34 3421 May 16 21:32 3421 May 18 06:56 3421 May 18 10:00 3421 May 23 23:00 3421 Jun 02 06:11 3421 Jun 14 18:37 3421 Jun 24 16:08 3421 Jun 27 22:06 3421 Jul 01 02:19 3421 Jul 09 02:14 3421 Jul 10 07:26 3421 Jul 09 23:22 3421 Jul 18 22:34 3421 Jul 18 22:34 3421 Jul 21 22:21 3421 Aug 02 06:48 3421 Aug 10 06:15 3421 Aug 14 06:09	26°836'57 26°829'01 26°844'54 29°843'28 0° II 11° II 51'31 0° 5 17° 507'43 23° 515'37 23° 539'51 23° 515'36 19° 506'32 19° 515'36 14° 555'06 20° 511'38 0° R 6° R 35'13	22°34'51 0.55244 AU -4°06'16 4°04'23
behind sun end evening rise evening max el desc. node retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node morning set superior conj	3420 Jun 01 09:24 3420 Jun 01 16:17 3420 Jun 08 11:27 3420 Jun 09 20:30 3420 Jun 27 06:35 3420 Jul 03 04:32 3420 Jul 07 19:07 3420 Jul 17 00:05 3420 Jul 21 16:09 3420 Jul 27 15:11 3420 Jul 30 04:28 3420 Jul 30 00:51 3420 Aug 07 12:12 3420 Aug 10 05:05 3420 Aug 19 22:33 3420 Aug 27 09:05 3420 Sep 03 04:35 3420 Sep 06 14:23	11° H43'20 12° H20'50 27° H05'43 0° © 0° N 6° N41'56 10° N29'09 13° N39'51 12° N51'22 9° N54'26 8° N19'02 8° N24'42 4° N18'56 3° N59'40 8° N31'00 17° N54'33 0° M 6° M45'17	0.56492 AU -4°59'05 4°58'46 19°42'28	minimum elong behind sun begin behind sun end asc. node evening rise evening max el desc. node retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el	3421 May 16 20:03 3421 May 16 18:34 3421 May 16 21:32 3421 May 18 06:56 3421 May 18 10:00 3421 May 23 23:00 3421 Jun 02 06:11 3421 Jun 14 18:37 3421 Jun 24 16:08 3421 Jun 27 22:06 3421 Jul 01 02:19 3421 Jul 09 02:14 3421 Jul 10 07:26 3421 Jul 09 23:22 3421 Jul 18 22:34 3421 Jul 18 22:34 3421 Jul 18 22:34 3421 Jul 21 22:21 3421 Aug 02 06:48 3421 Aug 10 06:15 3421 Aug 11 06:09 3421 Aug 21 22:00	26°836'57 26°829'01 26°844'54 29°843'28 0° II 11° II 51'31 0° 5 17° 507'43 23° 515'37 23° 539'51 23° 515'36 19° 518'03 15° 515'36 14° 555'06 20° 511'38 0° \(\Omega\) 6° \(\Omega\) 35'13 21° \(\Omega\) 28'19	22°34'51 0.55244 AU -4°06'16 4°04'23
behind sun end evening rise evening max el desc. node retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node morning set	3420 Jun 01 09:24 3420 Jun 01 16:17 3420 Jun 08 11:27 3420 Jun 09 20:30 3420 Jun 27 06:35 3420 Jul 03 04:32 3420 Jul 07 19:07 3420 Jul 17 00:05 3420 Jul 21 16:09 3420 Jul 27 15:11 3420 Jul 30 04:28 3420 Jul 30 00:51 3420 Aug 07 12:12 3420 Aug 10 05:05 3420 Aug 19 22:33 3420 Aug 27 09:05 3420 Sep 03 04:35 3420 Sep 06 14:23	11° II 43'20 12° II 20'50 27° II 05'43 0° © 0° N 6° N 41'56 10° N 29'09 13° N 39'51 12° N 54'26 8° N 19'02 8° N 24'42 4° N 18'56 3° N 59'40 8° N 31'00 17° N 54'33 0° M 6° M 45'17 22° M 40'18 22° M 40'18	0.56492 AU -4°59'05 4°58'46 19°42'28	minimum elong behind sun begin behind sun end asc. node evening rise evening max el desc. node retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node	3421 May 16 20:03 3421 May 16 18:34 3421 May 16 21:32 3421 May 18 06:56 3421 May 18 10:00 3421 May 23 23:00 3421 Jun 02 06:11 3421 Jun 14 18:37 3421 Jun 24 16:08 3421 Jun 27 22:06 3421 Jul 01 02:19 3421 Jul 09 02:14 3421 Jul 10 07:26 3421 Jul 09 23:22 3421 Jul 18 22:34 3421 Jul 18 22:34 3421 Jul 21 22:21 3421 Aug 02 06:48 3421 Aug 10 06:15 3421 Aug 14 06:09	26°836'57 26°829'01 26°844'54 29°843'28 0° II 11° II 51'31 0° 5 17° 507'43 23° 515'37 23° 539'51 23° 515'36 19° 506'32 19° 515'36 14° 555'06 20° 511'38 0° R 6° R 35'13	22°34'51 0.55244 AU -4°06'16 4°04'23
behind sun end evening rise evening max el desc. node retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node morning set superior conj minimum elong	3420 Jun 01 09:24 3420 Jun 01 16:17 3420 Jun 08 11:27 3420 Jun 09 20:30 3420 Jun 27 06:35 3420 Jul 03 04:32 3420 Jul 07 19:07 3420 Jul 17 00:05 3420 Jul 21 16:09 3420 Jul 27 15:11 3420 Jul 30 04:28 3420 Jul 30 00:51 3420 Aug 07 12:12 3420 Aug 10 05:05 3420 Aug 19 22:33 3420 Aug 27 09:05 3420 Sep 03 04:35 3420 Sep 14 11:52 3420 Sep 14 12:54 3420 Sep 18 06:12	11° H43'20 12° H20'50 27° H05'43 0° © 0° N 6° N41'56 10° N29'09 13° N39'51 12° N51'22 9° N54'26 8° N19'02 8° N24'42 4° N18'56 3° N59'40 8° N31'00 17° N54'33 0° M 6° M45'17 22° M40'18 22° M45'27 0° Ω	0.56492 AU -4°59'05 4°58'46 19°42'28 1°43'17 1°43'15	minimum elong behind sun begin behind sun end asc. node evening rise evening max el desc. node retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node morning set	3421 May 16 20:03 3421 May 16 18:34 3421 May 16 21:32 3421 May 18 06:56 3421 May 18 10:00 3421 May 23 23:00 3421 Jun 02 06:11 3421 Jun 14 18:37 3421 Jun 24 16:08 3421 Jun 27 22:06 3421 Jul 01 02:19 3421 Jul 09 02:14 3421 Jul 10 07:26 3421 Jul 09 23:22 3421 Jul 18 22:34 3421 Jul 18 22:34 3421 Jul 21 22:21 3421 Aug 02 06:48 3421 Aug 10 06:15 3421 Aug 14 06:09 3421 Aug 26 00:11	26°836'57 26°829'01 26°844'54 29°843'28 0° II 11°II51'31 0° 99 17° 907'43 23° 9315'37 23° 939'51 23° 917'39 19° 948'08 19° 906'32 19° 918'03 15° 915'36 14° 955'06 20° 911'38 0° R 6° R 35'13 21° R 28'19 0° m	22°34'51 0.55244 AU -4°06'16 4°04'23 21°01'32
evening max el desc. node retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node morning set superior conj minimum elong	3420 Jun 01 09:24 3420 Jun 01 16:17 3420 Jun 08 11:27 3420 Jun 09 20:30 3420 Jun 27 06:35 3420 Jul 03 04:32 3420 Jul 07 19:07 3420 Jul 17 00:05 3420 Jul 21 16:09 3420 Jul 27 15:11 3420 Jul 30 04:28 3420 Jul 30 00:51 3420 Aug 07 12:12 3420 Aug 10 05:05 3420 Aug 19 22:33 3420 Aug 27 09:05 3420 Sep 03 04:35 3420 Sep 14 11:52 3420 Sep 14 11:52 3420 Sep 18 06:12 3420 Sep 20 10:38	11° H43'20 12° H20'50 27° H05'43 0° © 0° N 6° N41'56 10° N29'09 13° N39'51 12° N51'22 9° N54'26 8° N19'02 8° N24'42 4° N18'56 3° N59'40 8° N31'00 17° N54'33 0° M 6° M45'17 22° M45'27 0° £ 4° £07'36	0.56492 AU -4°59'05 4°58'46 19°42'28	minimum elong behind sun begin behind sun end asc. node evening rise evening max el desc. node retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node morning set	3421 May 16 20:03 3421 May 16 18:34 3421 May 16 21:32 3421 May 18 06:56 3421 May 18 10:00 3421 May 23 23:00 3421 Jun 02 06:11 3421 Jun 14 18:37 3421 Jun 24 16:08 3421 Jun 27 22:06 3421 Jul 01 02:19 3421 Jul 09 02:14 3421 Jul 10 07:26 3421 Jul 09 23:22 3421 Jul 18 22:34 3421 Jul 18 22:34 3421 Jul 21 22:21 3421 Aug 02 06:48 3421 Aug 10 06:15 3421 Aug 14 06:09 3421 Aug 26 00:11 3421 Aug 29 07:57	26° 836'57 26° 829'01 26° 844'54 29° 843'28 0° II 11° II 51'31 0° 9 17° 907'43 23° 915'37 23° 939'51 23° 917'39 19° 948'08 19° 906'32 19° 918'03 15° 915'36 14° 955'06 20° 911'38 0° R 6° R35'13 21° R28'19 0° M	22°34'51 0.55244 AU -4°06'16 4°04'23 21°01'32
evening max el desc. node retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node morning set superior conj minimum elong morning set superior conj minimum elong max. Earth dist. evening rise	3420 Jun 01 09:24 3420 Jun 01 16:17 3420 Jun 08 11:27 3420 Jun 09 20:30 3420 Jun 27 06:35 3420 Jul 03 04:32 3420 Jul 07 19:07 3420 Jul 17 00:05 3420 Jul 21 16:09 3420 Jul 27 15:11 3420 Jul 30 04:28 3420 Jul 30 00:51 3420 Aug 07 12:12 3420 Aug 10 05:05 3420 Aug 19 22:33 3420 Aug 27 09:05 3420 Sep 03 04:35 3420 Sep 14 11:52 3420 Sep 14 11:52 3420 Sep 14 12:54 3420 Sep 20 10:38 3420 Sep 24 04:59	11° H43'20 12° H20'50 27° H05'43 0° © 0° N 6° N41'56 10° N29'09 13° N39'51 12° N51'22 9° N54'26 8° N19'02 8° N24'42 4° N18'56 3° N59'40 8° N31'00 17° N54'33 0° M 6° M45'17 22° M45'27 0° Ω 4° Ω07'36 11° Ω00'21	0.56492 AU -4°59'05 4°58'46 19°42'28 1°43'17 1°43'15	minimum elong behind sun begin behind sun end asc. node evening rise evening max el desc. node retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node superior conj minimum elong	3421 May 16 20:03 3421 May 16 18:34 3421 May 16 21:32 3421 May 18 06:56 3421 May 18 10:00 3421 May 23 23:00 3421 Jun 02 06:11 3421 Jun 14 18:37 3421 Jun 24 16:08 3421 Jun 27 22:06 3421 Jul 01 02:19 3421 Jul 09 02:14 3421 Jul 10 07:26 3421 Jul 10 07:26 3421 Jul 18 22:34 3421 Jul 21 22:21 3421 Aug 10 06:15 3421 Aug 10 06:15 3421 Aug 21 22:00 3421 Aug 29 07:57 3421 Aug 29 07:57 3421 Aug 29 07:26	26° 836'57 26° 829'01 26° 844'54 29° 843'28 0° II 11° II 51'31 0° 9 17° 907'43 23° 915'37 23° 939'51 23° 917'39 19° 948'08 19° 906'32 19° 918'03 15° 915'36 14° 955'06 20° 911'38 0° R 6° R 35'13 21° R 28'19 0° M	22°34'51 0.55244 AU -4°06'16 4°04'23 21°01'32 1°44'13 1°44'13
evening max el desc. node retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node morning set superior conj minimum elong	3420 Jun 01 09:24 3420 Jun 01 16:17 3420 Jun 08 11:27 3420 Jun 09 20:30 3420 Jun 27 06:35 3420 Jul 03 04:32 3420 Jul 07 19:07 3420 Jul 17 00:05 3420 Jul 21 16:09 3420 Jul 27 15:11 3420 Jul 30 04:28 3420 Jul 30 00:51 3420 Aug 07 12:12 3420 Aug 10 05:05 3420 Aug 19 22:33 3420 Aug 19 22:33 3420 Aug 27 09:05 3420 Sep 03 04:35 3420 Sep 14 11:52 3420 Sep 14 12:54 3420 Sep 18 06:12 3420 Sep 20 10:38 3420 Sep 24 04:59 3420 Oct 03 18:24	11° H43'20 12° H20'50 27° H05'43 0° © 0° N 6° N41'56 10° N29'09 13° N39'51 12° N51'22 9° N54'26 8° N19'02 8° N24'42 4° N18'56 3° N59'40 8° N31'00 17° N54'33 0° M 6° M45'17 22° M40'18 22° M45'27 0° Ф 4° Ф07'36 11° Ф00'21 27° Ф10'47	0.56492 AU -4°59'05 4°58'46 19°42'28 1°43'17 1°43'15	minimum elong behind sun begin behind sun end asc. node evening rise evening max el desc. node retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node morning set	3421 May 16 20:03 3421 May 16 18:34 3421 May 16 21:32 3421 May 18 06:56 3421 May 18 10:00 3421 May 23 23:00 3421 Jun 02 06:11 3421 Jun 14 18:37 3421 Jun 24 16:08 3421 Jun 27 22:06 3421 Jul 01 02:19 3421 Jul 09 02:14 3421 Jul 10 07:26 3421 Jul 10 07:26 3421 Jul 18 22:34 3421 Jul 21 22:21 3421 Aug 10 06:15 3421 Aug 10 06:15 3421 Aug 21 22:00 3421 Aug 22 07:57 3421 Aug 29 07:57 3421 Aug 29 07:26 3421 Sep 02 19:34	26° 836'57 26° 829'01 26° 844'54 29° 843'28 0° II 11° II 51'31 0° 9 17° 907'43 23° 9315'37 23° 939'51 23° 915'37 19° 948'08 19° 906'32 19° 918'03 15° 915'36 14° 955'06 20° 911'38 0° R 6° R 35'13 21° R 28'19 0° M 6° M 54'33 6° M 51'55 15° M 58'10	22°34'51 0.55244 AU -4°06'16 4°04'23 21°01'32
evening max el desc. node retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node morning set superior conj minimum elong morning set superior conj minimum elong max. Earth dist. evening rise	3420 Jun 01 09:24 3420 Jun 01 16:17 3420 Jun 08 11:27 3420 Jun 09 20:30 3420 Jun 27 06:35 3420 Jul 03 04:32 3420 Jul 07 19:07 3420 Jul 17 00:05 3420 Jul 21 16:09 3420 Jul 27 15:11 3420 Jul 30 04:28 3420 Jul 30 00:51 3420 Aug 07 12:12 3420 Aug 10 05:05 3420 Aug 19 22:33 3420 Aug 19 22:33 3420 Aug 27 09:05 3420 Sep 03 04:35 3420 Sep 14 11:52 3420 Sep 14 12:54 3420 Sep 18 06:12 3420 Sep 20 10:38 3420 Sep 24 04:59 3420 Oct 03 18:24 3420 Oct 05 13:09	11° H43'20 12° H20'50 27° H05'43 0° © 0° N 6° N41'56 10° N29'09 13° N39'51 12° N51'22 9° N54'26 8° N19'02 8° N24'42 4° N18'56 3° N59'40 8° N31'00 17° N54'33 0° M 6° M45'17 22° M40'18 22° M45'27 0° © 4° £07'36 11° £00'21 27° £10'47 0° M	0.56492 AU -4°59'05 4°58'46 19°42'28 1°43'17 1°43'15	minimum elong behind sun begin behind sun end asc. node evening rise evening max el desc. node retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node superior conj minimum elong	3421 May 16 20:03 3421 May 16 18:34 3421 May 16 21:32 3421 May 18 06:56 3421 May 18 10:00 3421 May 23 23:00 3421 Jun 02 06:11 3421 Jun 14 18:37 3421 Jun 24 16:08 3421 Jun 27 22:06 3421 Jul 01 02:19 3421 Jul 09 02:14 3421 Jul 09 02:14 3421 Jul 10 07:26 3421 Jul 18 22:34 3421 Jul 21 22:21 3421 Aug 02 06:48 3421 Aug 10 06:15 3421 Aug 10 06:15 3421 Aug 21 22:00 3421 Aug 22 07:57 3421 Aug 29 07:57 3421 Aug 29 07:26 3421 Sep 02 19:34 3421 Sep 06 23:05	26° 836'57 26° 829'01 26° 844'54 29° 843'28 0° II 11° II 51'31 0° 9 17° 907'43 23° 9315'37 23° 939'51 23° 918'03 15° 918'03	22°34'51 0.55244 AU -4°06'16 4°04'23 21°01'32 1°44'13 1°44'13
evening max el desc. node retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise desc. node	3420 Jun 01 09:24 3420 Jun 01 16:17 3420 Jun 08 11:27 3420 Jun 09 20:30 3420 Jun 27 06:35 3420 Jul 03 04:32 3420 Jul 07 19:07 3420 Jul 17 00:05 3420 Jul 21 16:09 3420 Jul 27 15:11 3420 Jul 30 04:28 3420 Jul 30 00:51 3420 Aug 07 12:12 3420 Aug 10 05:05 3420 Aug 19 22:33 3420 Aug 27 09:05 3420 Sep 03 04:35 3420 Sep 14 11:52 3420 Sep 14 12:54 3420 Sep 18 06:12 3420 Sep 20 10:38 3420 Sep 24 04:59 3420 Oct 03 18:24 3420 Oct 05 13:09 3420 Oct 27 19:17	11° H43'20 12° H20'50 27° H05'43 0° © 0° N 6° N41'56 10° N29'09 13° N39'51 12° N51'22 9° N54'26 8° N19'02 8° N24'42 4° N18'56 3° N59'40 8° N31'00 17° N54'33 0° M 6° M45'17 22° M40'18 22° M45'27 0° Ω 4° Ω00'21 27° Ω10'47 0° M 0° %	0.56492 AU -4°59'05 4°58'46 19°42'28 1°43'17 1°43'15 1.37418 AU	minimum elong behind sun begin behind sun end asc. node evening rise evening max el desc. node retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node morning set	3421 May 16 20:03 3421 May 16 18:34 3421 May 16 21:32 3421 May 18 06:56 3421 May 18 10:00 3421 May 23 23:00 3421 Jun 02 06:11 3421 Jun 14 18:37 3421 Jun 24 16:08 3421 Jun 27 22:06 3421 Jul 01 02:19 3421 Jul 09 02:14 3421 Jul 09 02:14 3421 Jul 10 07:26 3421 Jul 18 22:34 3421 Jul 18 22:34 3421 Jul 21 22:21 3421 Aug 02 06:48 3421 Aug 10 06:15 3421 Aug 10 06:15 3421 Aug 21 22:00 3421 Aug 29 07:57 3421 Aug 29 07:26 3421 Sep 02 19:34 3421 Sep 06 23:05 3421 Sep 10 05:52	26° 836'57 26° 829'01 26° 844'54 29° 843'28 0° II 11° II 51'31 0° 9 17° 907'43 23° 9315'37 23° 939'51 23° 918'03 15° 918'03 15° 918'03 15° 915'36 14° 955'06 20° 911'38 0° R 6° R35'13 21° R28'19 0° ID 6° ID 54'33 6° ID 51'55 15° ID 58'10 23° ID 57'44 0° 9	22°34'51 0.55244 AU -4°06'16 4°04'23 21°01'32 1°44'13 1°44'13
evening max el desc. node retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node morning set superior conj minimum elong morning set superior conj minimum elong max. Earth dist. evening rise	3420 Jun 01 09:24 3420 Jun 01 16:17 3420 Jun 08 11:27 3420 Jun 09 20:30 3420 Jun 27 06:35 3420 Jul 03 04:32 3420 Jul 07 19:07 3420 Jul 17 00:05 3420 Jul 21 16:09 3420 Jul 27 15:11 3420 Jul 30 04:28 3420 Jul 30 00:51 3420 Aug 07 12:12 3420 Aug 10 05:05 3420 Aug 19 22:33 3420 Aug 19 22:33 3420 Aug 27 09:05 3420 Sep 03 04:35 3420 Sep 14 11:52 3420 Sep 14 12:54 3420 Sep 18 06:12 3420 Sep 20 10:38 3420 Sep 24 04:59 3420 Oct 03 18:24 3420 Oct 05 13:09	11° H43'20 12° H20'50 27° H05'43 0° © 0° N 6° N41'56 10° N29'09 13° N39'51 12° N51'22 9° N54'26 8° N19'02 8° N24'42 4° N18'56 3° N59'40 8° N31'00 17° N54'33 0° M 6° M45'17 22° M40'18 22° M45'27 0° © 4° £07'36 11° £00'21 27° £10'47 0° M	0.56492 AU -4°59'05 4°58'46 19°42'28 1°43'17 1°43'15	minimum elong behind sun begin behind sun end asc. node evening rise evening max el desc. node retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node morning set	3421 May 16 20:03 3421 May 16 18:34 3421 May 16 21:32 3421 May 18 06:56 3421 May 18 10:00 3421 May 23 23:00 3421 Jun 02 06:11 3421 Jun 14 18:37 3421 Jun 24 16:08 3421 Jun 27 22:06 3421 Jul 01 02:19 3421 Jul 09 02:14 3421 Jul 10 07:26 3421 Jul 18 22:34 3421 Jul 18 22:34 3421 Jul 21 22:21 3421 Aug 10 06:15 3421 Aug 10 06:15 3421 Aug 21 00:11 3421 Aug 29 07:26 3421 Aug 29 07:26 3421 Sep 02 19:34 3421 Sep 06 23:05 3421 Sep 10 05:52 3421 Sep 20 15:26	26° 836'57 26° 829'01 26° 844'54 29° 843'28 0° II 11° II 51'31 0° 9 17° 907'43 23° 9315'37 23° 939'51 23° 918'03 15° 918'03	22°34'51 0.55244 AU -4°06'16 4°04'23 21°01'32 1°44'13 1°44'13
evening max el desc. node retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node morning set superior conj minimum elong	3420 Jun 01 09:24 3420 Jun 01 16:17 3420 Jun 08 11:27 3420 Jun 09 20:30 3420 Jun 27 06:35 3420 Jul 03 04:32 3420 Jul 07 19:07 3420 Jul 17 00:05 3420 Jul 21 16:09 3420 Jul 27 15:11 3420 Jul 30 00:51 3420 Jul 30 00:51 3420 Aug 07 12:12 3420 Aug 10 05:05 3420 Aug 19 22:33 3420 Aug 19 22:33 3420 Aug 27 09:05 3420 Sep 03 04:35 3420 Sep 14 11:52 3420 Sep 14 12:54 3420 Sep 14 12:54 3420 Sep 18 06:12 3420 Sep 20 10:38 3420 Sep 24 04:59 3420 Oct 03 18:24 3420 Oct 27 19:17 3420 Oct 29 22:59	11° H43'20 12° H20'50 27° H05'43 0° © 0° N 6° N41'56 10° N29'09 13° N39'51 12° N51'22 9° N54'26 8° N19'02 8° N24'42 4° N18'56 3° N59'40 8° N31'00 17° N54'33 0° M 6° M45'17 22° M40'18 22° M45'27 0° Ω 4° Ω00'21 27° Ω10'47 0° M 0° % 2° % 12'21	0.56492 AU -4°59'05 4°58'46 19°42'28 1°43'17 1°43'15 1.37418 AU	minimum elong behind sun begin behind sun end asc. node evening rise evening max el desc. node retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node morning set	3421 May 16 20:03 3421 May 16 18:34 3421 May 16 21:32 3421 May 18 06:56 3421 May 18 10:00 3421 May 23 23:00 3421 Jun 02 06:11 3421 Jun 14 18:37 3421 Jun 24 16:08 3421 Jun 27 22:06 3421 Jul 01 02:19 3421 Jul 09 02:14 3421 Jul 09 02:14 3421 Jul 10 07:26 3421 Jul 18 22:34 3421 Jul 18 22:34 3421 Jul 21 22:21 3421 Aug 02 06:48 3421 Aug 10 06:15 3421 Aug 10 06:15 3421 Aug 21 22:00 3421 Aug 29 07:57 3421 Aug 29 07:26 3421 Sep 02 19:34 3421 Sep 06 23:05 3421 Sep 10 05:52	26° 836'57 26° 829'01 26° 844'54 29° 843'28 0° II 11° II 51'31 0° 9 17° 907'43 23° 9315'37 23° 939'51 23° 9315'36 19° 906'32 19° 918'03 15° 915'36 14° 955'06 20° 911'38 0° R 6° R35'13 21° R28'19 0° m 6° \$\mathbf{m}\$51'55 15° \$\mathbf{m}\$51'55 15° \$\mathbf{m}\$51'44 0° \mathbf{n}\$ 17° \mathbf{n}\$28'26	22°34'51 0.55244 AU -4°06'16 4°04'23 21°01'32 1°44'13 1°44'13 1.35578 AU
behind sun end evening rise evening max el desc. node retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise desc. node evening max el retrograde	3420 Jun 01 09:24 3420 Jun 01 16:17 3420 Jun 08 11:27 3420 Jun 09 20:30 3420 Jun 27 06:35 3420 Jul 03 04:32 3420 Jul 07 19:07 3420 Jul 17 00:05 3420 Jul 21 16:09 3420 Jul 27 15:11 3420 Jul 30 04:28 3420 Jul 30 00:51 3420 Aug 07 12:12 3420 Aug 10 05:05 3420 Aug 19 22:33 3420 Aug 19 22:33 3420 Aug 27 09:05 3420 Sep 03 04:35 3420 Sep 04 14:23 3420 Sep 14 11:52 3420 Sep 14 12:54 3420 Sep 18 06:12 3420 Sep 20 10:38 3420 Sep 24 04:59 3420 Oct 03 18:24 3420 Oct 05 13:09 3420 Oct 27 19:17 3420 Oct 29 22:59 3420 Nov 11 01:07	11° H43'20 12° H20'50 27° H05'43 0° © 0° N 6° N41'56 10° N29'09 13° N39'51 12° N51'22 9° N54'26 8° N19'02 8° N24'42 4° N18'56 3° N59'40 8° N31'00 17° N54'33 0° M 6° M45'17 22° M40'18 22° M40'18 22° M45'27 0° P 4° P07'36 11° P00'21 27° P10'47 0° M 0° ¬ 2° ¬12'21 9° ¬10'02	0.56492 AU -4°59'05 4°58'46 19°42'28 1°43'17 1°43'15 1.37418 AU	minimum elong behind sun begin behind sun end asc. node evening rise evening max el desc. node retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node morning set	3421 May 16 20:03 3421 May 16 18:34 3421 May 16 21:32 3421 May 18 06:56 3421 May 18 10:00 3421 May 23 23:00 3421 Jun 02 06:11 3421 Jun 14 18:37 3421 Jun 24 16:08 3421 Jun 27 22:06 3421 Jul 01 02:19 3421 Jul 09 02:14 3421 Jul 10 07:26 3421 Jul 18 22:34 3421 Jul 18 22:34 3421 Jul 21 22:21 3421 Aug 10 06:15 3421 Aug 10 06:15 3421 Aug 20 07:57 3421 Aug 29 07:57 3421 Aug 29 07:26 3421 Sep 02 19:34 3421 Sep 06 23:05 3421 Sep 20 15:26 3421 Sep 29 03:47	26° 836'57 26° 829'01 26° 844'54 29° 843'28 0° II 11° II 51'31 0° 9 17° 907'43 23° 9315'37 23° 939'51 23° 915'36 19° 906'32 19° 918'03 15° 915'36 14° 955'06 20° 911'38 0° R 6° R35'13 21° R28'19 0° m 6° \$\mathref{m}\$54'33 6° \$\mathref{m}\$51'55 15° \$\mathref{m}\$57'44 0° \mathref{m}\$ 17° \mathref{m}\$28'26 0° III.	22°34'51 0.55244 AU -4°06'16 4°04'23 21°01'32 1°44'13 1°44'13 1.35578 AU

Tranetary Trient	omena or wicieary	110111 3100 1	inough 5002 (O 1), 7 istrodictist	710 10 100 2023 1	1.22, pt	ige 175
evening set	3421 Oct 31 18:16	20°M27'15		evening max el	3422 Sep 24 23:49	29° £ 23'57	27°10'19
min. Earth dist.	3421 Nov 04 21:13		0.66284 AU	evening max er	3422 Sep 25 15:09	0°M	27 1019
inferior conj	3421 Nov 04 21:13	14°M 11'05		retrograde	3422 Oct 08 08:22	6°M41'48	
minimum elong	3421 Nov 06 14:31	14°M04'51		evening set	3422 Oct 06 08:22 3422 Oct 15 06:08	3°M59'49	
asc. node	3421 Nov 10 05:22	10°M05'49	1 1433	min. Earth dist.	3422 Oct 19 00:08	0°M18'01	0.65030 AU
		8°M25'03		min. Earth dist.		0 IIC1001 30°RΩ	0.03030 AU
morning rise	3421 Nov 12 11:23			::	3422 Oct 19 09:18 3422 Oct 21 06:00	30° ₹ 2 2 27° £ 55'20	2017/12
direct	3421 Nov 15 10:59	7°M34'49	10025110	inferior conj			
morning max el	3421 Nov 22 03:12	11°M.14'33	18°35'19	minimum elong	3422 Oct 21 09:47	27° £ 44'47	2°14'46
	3421 Dec 05 14:12	0° ₹		morning rise	3422 Oct 27 14:23	22° Ω 22'27	
morning set	3421 Dec 12 15:27	11° х 11'27		asc. node	3422 Oct 28 02:25	22° ⊆ 09'39	
desc. node	3421 Dec 17 14:42	19° ∡ *04'38		direct	3422 Oct 30 06:29	21° Ω 44'31	
	3421 Dec 24 12:59	0°ಕ		morning max el	3422 Nov 05 18:20	25° Ω 12'57	18°04'30
		_			3422 Nov 09 18:12	0°M	
superior conj	3421 Dec 28 15:51	6° පි 28'00		morning set	3422 Nov 23 18:04	22°M13'07	
minimum elong	3421 Dec 28 07:30	5° る 55'14			3422 Nov 28 11:10	0°⊀	
max. Earth dist.	3421 Dec 28 18:08	6°₹36'56	1.45212 AU	desc. node	3422 Dec 04 11:45	9° ∡ 747'14	
	3422 Jan 12 13:59	0° ≈					
evening rise	3422 Jan 13 11:11	1° ≈ 24'20		superior conj	3422 Dec 07 22:29	15° ∡ 18'07	-0°23'22
greatest brilliancy	3422 Jan 22 03:09	15° ≈ 11'14	-0.8m	minimum elong	3422 Dec 07 19:34	15° ₰ 06'29	0°22'57
	3422 Feb 01 03:51	0° ∀		max. Earth dist.	3422 Dec 11 13:26	21° 尽 02'17	1.45010 AU
evening max el	3422 Feb 04 10:24	3°) 49′00	18°57'01		3422 Dec 17 06:44	8°0	
asc. node	3422 Feb 06 04:40	5°) €26'45		evening rise	3422 Dec 24 06:57	10°る52'37	
retrograde	3422 Feb 11 06:10	7°) 39'44			3423 Jan 05 18:42	0° ≈	
evening set	3422 Feb 14 13:17	6° ¥ 36'57		greatest brilliancy	3423 Jan 06 17:59	1°≈27'04	-0.7m
inferior conj	3422 Feb 20 04:07	0° ¥ 52'35	3°28'40	evening max el	3423 Jan 18 16:42	17° ≈ 20'17	19°46'44
minimum elong	3422 Feb 20 02:30	0°) 57'37		asc. node	3423 Jan 24 01:42	21°≈16′22	
	3422 Feb 20 20:51	30°R≈		retrograde	3423 Jan 26 03:34	21° ≈ 39'47	
min. Earth dist.	3422 Feb 21 19:25	28° ≈ 49'36	0.65697 AU	evening set	3423 Jan 29 18:21	20°≈23'18	
morning rise	3422 Feb 25 15:21	24°≈40'13	0.000,7110	inferior conj	3423 Feb 04 05:05	14°≈24'16	3°06'19
direct	3422 Mar 04 04:03	21° ≈ 49'25		minimum elong	3423 Feb 04 02:45	14°≈32'01	3°05'49
desc. node	3422 Mar 15 13:56	27°≈57'20		min. Earth dist.	3423 Feb 05 05:50	13°≈02'08	0.66847 AU
morning max el	3422 Mar 17 04:23	29° ≈ 30'46	26°40'03	morning rise	3423 Feb 09 10:56	8°≈10'43	0.00047 AC
morning max cr	3422 Mar 17 04:23	0° ₩	20 40 03	direct	3423 Feb 15 11:36	5°≈29'18	
		0°Υ				12° ≈ 41'21	25°26'15
	3422 Apr 08 18:39	23° Υ 23'29		morning max el	3423 Feb 27 13:22 3423 Mar 02 10:58		23 20 13
morning set	3422 Apr 22 03:10	0° 8		desc. node		15°≈47'49	
F 41 F 4	3422 Apr 25 13:08	_	1 24526 ATT		3423 Mar 13 12:29	0° ∀ 0° Υ	
max. Earth dist.	3422 Apr 26 08:39	1°036'41	1.34526 AU		3423 Apr 01 12:16		
	2422 4 20 10 00	100 407101	004411.5	morning set	3423 Apr 04 18:56	5°Υ50'14	1.040.40.477
superior conj	3422 Apr 30 19:06	10° 8 37'21		max. Earth dist.	3423 Apr 08 11:50	12°° γ′ 41'0′/	1.36242 AU
minimum elong	3422 Apr 30 21:25	10° 8 49'21	0°43'4'/				
asc. node	3422 May 05 03:58	19° 8 45'31		superior conj	3423 Apr 14 10:13	24° Y 11'40	
evening rise	3422 May 08 08:23	26° 8 25'20		minimum elong	3423 Apr 14 13:59	24° Ƴ 30′27	1°11'59
	3422 May 10 02:05	0°II			3423 Apr 17 07:31	0°8	
evening max el	3422 May 27 16:30	27° ∏ 50′50	21°04'55	asc. node	3423 Apr 22 01:01	9° 8 37'52	
	3422 May 30 03:29	$0 \circ \mathfrak{S}$		evening rise	3423 Apr 22 13:31	10° 8 41'17	
retrograde	3422 Jun 08 11:21	3° © 36'52			3423 May 02 23:10	Π $^{\circ}0$	
evening set	3422 Jun 10 16:23	3° © 25'28		evening max el	3423 May 10 02:09	9° Ⅱ 10'42	19°50'46
desc. node	3422 Jun 11 13:11	3° © 15'02		retrograde	3423 May 20 03:18	14° Ⅱ 03'30	
	3422 Jun 19 01:58	30°Ŗ Ⅱ		evening set	3423 May 22 02:40	13° Ⅱ 53′02	
inferior conj	3422 Jun 20 01:05	29° Ⅲ 27'31	-2°27'12	desc. node	3423 May 29 10:12	10° Ⅱ 48'34	
minimum elong	3422 Jun 19 18:22	29° Ⅱ 36′59	2°24'55	inferior conj	3423 May 30 23:41	9° Ⅱ 51'53	-0°27'37
min. Earth dist.	3422 Jun 20 13:57	29° Ⅱ 09'23	0.54856 AU	minimum elong	3423 May 30 22:25	9° Ⅱ 53'49	0°27'10
morning rise	3422 Jun 28 20:26	25° Ⅱ 27'23		min. Earth dist.	3423 Jun 02 03:04	8° Ⅲ 33′21	0.55436 AU
direct	3422 Jul 02 07:54	25° Ⅱ 01'15		morning rise	3423 Jun 08 16:03	5° Ⅱ 24'39	
	3422 Jul 13 21:13	0° ©		direct	3423 Jun 12 22:37	4° ∏ 44'24	
morning max el	3422 Jul 15 04:09	1° 5 08'48	22°37'24	morning max el	3423 Jun 26 18:56	11° Ⅱ 36'53	24°20'28
asc. node	3422 Aug 01 03:13	25°5547'04		-	3423 Jul 10 17:38	0°©	
	3422 Aug 03 06:41	$0^{\circ}\Omega$		asc. node	3423 Jul 19 00:15	15°921'52	
morning set	3422 Aug 06 08:34	6° Ω 19'53		morning set	3423 Jul 21 20:19	21°5514'40	
0		. 55.7 55			3423 Jul 25 22:00	0°Ω	
superior conj	3422 Aug 13 11:28	21° Ω 30'30	1°38'24				
minimum elong	3422 Aug 13 09:51	21° Ω 21'53	1°38'18	superior conj	3423 Jul 28 19:46	6° Ω 19'46	1°26'59
max. Earth dist.	3422 Aug 16 13:16	27° Ω 58'20	1.34093 AU	minimum elong	3423 Jul 28 17:32	6° Ω 07'39	1°26'43
Durin dist.	3422 Aug 17 12:50	0°m)	1.5 .5/5/110	max. Earth dist.	3423 Jul 30 15:53	10° Ω 18'14	1.33012 AU
evening rise	3422 Aug 17 12:50 3422 Aug 21 07:57	7° Mp 37'34		evening rise	3423 Jul 30 13:33 3423 Aug 05 03:34	21°Ω48'16	1.55012 AU
C 1 0111112 1130	3422 Sep 02 19:10	0° ⊽		2 , ching 1150	3423 Aug 09 07:22	0° Mp	
desc. node	3422 Sep 02 19:10 3422 Sep 07 12:29	0 <u>⊶</u> 7° ≏ 24'41		desc. node	3423 Aug 09 07.22 3423 Aug 25 09:31	26° Mp 50'04	
acse. Hour	5422 Sep 0/ 12.29	/ == 24 41		acsc. Hour	J423 Mug 23 U9.31	20 lig 30 04	

	3423 Aug 27 16:06	0∘ ত		evening max el	3424 Aug 19 17:49	25° m 08'25	27°10'57
evening max el	3423 Sep 07 10:51	0 — 12° Ω 33'43	27°26'30	evening max er	3424 Aug 25 23:48	0° ⊡	27 1037
retrograde	3423 Sep 21 02:45	19° £ 50'10	27 2030	retrograde	3424 Sep 02 14:09	° – 2° ≏ 21'51	
evening set	3423 Sep 28 07:01	17° £ 13'56		evening set	3424 Sep 09 17:09	0° ჲ 03'28	
min. Earth dist.	3423 Oct 01 22:44		0.63439 AU		3424 Sep 09 19:19	30°R. Mp	
inferior conj	3423 Oct 04 14:17	11° ≏ 25'36		min. Earth dist.	3424 Sep 13 08:06	27° m 18'54	0.61552 AU
minimum elong	3423 Oct 04 19:32	11° ≏ 12'24		inferior conj	3424 Sep 16 10:14	24° m/34'32	
morning rise	3423 Oct 11 09:22	6° ഫ 09'23		minimum elong	3424 Sep 16 16:00	24° m) 21'43	
direct	3423 Oct 13 20:35	5° £ 40'06		morning rise	3424 Sep 23 16:35	19° m 38'31	
asc. node	3423 Oct 14 23:28	5° £ 46'16		direct	3424 Sep 26 01:38	19° m 14'53	
morning max el	3423 Oct 20 10:49	9° ჲ 05'32	17°51'05	asc. node	3424 Sep 30 20:30	20° m 54'24	
	3423 Nov 03 08:31	0° M .		morning max el	3424 Oct 03 01:43	22° Mp 45'36	17°56'04
morning set	3423 Nov 05 22:15	4°M28'37			3424 Oct 08 17:38	0° ⊽	
				morning set	3424 Oct 18 21:41	17° ≏ 39'07	
superior conj	3423 Nov 18 02:05	25°M11'28	0°22'30		3424 Oct 25 17:19	0°M	
minimum elong	3423 Nov 18 04:24	25°M21'01	0°22'11				
desc. node	3423 Nov 21 08:46	0° х 33′44		superior conj	3424 Oct 29 08:41	6°M24'32	0°59'13
	3423 Nov 21 00:28	0° ∡		minimum elong	3424 Oct 29 12:56	6°M42'59	0°58'39
max. Earth dist.	3423 Nov 24 07:10	5° ҂ 17′29	1.44097 AU	max. Earth dist.	3424 Nov 05 20:29	19° M 04'47	1.42586 AU
evening rise	3423 Dec 03 16:19	20° ∡ 100'47		desc. node	3424 Nov 07 05:48	21°M21'14	
	3423 Dec 10 05:34	0°ප		evening rise	3424 Nov 12 07:35	29°M29'25	
	3423 Dec 31 21:46	0° ≈			3424 Nov 12 15:21	0° ∡ ¹	
evening max el	3424 Jan 01 17:37	0° ≈ 52'14	20°50'25		3424 Dec 02 21:07	0°ප	
retrograde	3424 Jan 10 01:33	5° ≈ 47'46		evening max el	3424 Dec 14 12:59	14° る 25'08	22°04'29
asc. node	3424 Jan 10 22:44	5° ≈ 43′29		retrograde	3424 Dec 23 22:18	20°る00'24	
evening set	3424 Jan 14 01:35	4° ≈ 16′24		asc. node	3424 Dec 27 19:45	18° る 38'54	
	3424 Jan 18 00:25	30°₹ る		evening set	3424 Dec 28 09:16	18° る 13'10	
inferior conj	3424 Jan 19 10:17	28° る 05'23	2°34'12	inferior conj	3425 Jan 02 17:38		1°54'07
minimum elong	3424 Jan 19 07:45	28° る 14'03	2°33'28	minimum elong	3425 Jan 02 15:24		1°53'21
min. Earth dist.	3424 Jan 19 21:59	27° る 25'12	0.67580 AU	min. Earth dist.	3425 Jan 02 17:38	11° そ 53'31	0.67923 AU
morning rise	3424 Jan 24 13:46	21° る 52'19		morning rise	3425 Jan 07 21:25	5° 云 42'29	
direct	3424 Jan 30 00:03	19° පි 28'40		direct	3425 Jan 12 16:44	3° ⋜ 40'48	
morning max el	3424 Feb 09 21:50	25° る 58'47	24°00'03	morning max el	3425 Jan 22 08:23	9° る 22'40	22°31'22
	3424 Feb 13 14:20	0° ≈		desc. node	3425 Feb 03 05:01	23° る 58'17	
desc. node	3424 Feb 17 07:59	4°≈33'18			3425 Feb 07 11:37	0° ≈	
	3424 Mar 06 02:03	0°) (morning set	3425 Feb 25 04:36	27°≈13'35	
morning set	3424 Mar 16 13:21	17°) 11'40			3425 Feb 26 21:03	0° ∀	
max. Earth dist.	3424 Mar 20 07:58	23°) (48'41	1.38297 AU	max. Earth dist.	3425 Mar 02 04:13	5°) 31'55	1.40468 AU
	3424 Mar 23 17:56	0° Y			242534 00 22 12	1001/10125	1055150
	242434 27 12 04	7000000	1020114	superior conj	3425 Mar 09 23:12	19° ¥ 10′35	
superior conj	3424 Mar 27 13:04	7° Y 06'26 7° Y 28'19		minimum elong	3425 Mar 10 03:05	19° ¥ 28'07 0° Ƴ	1°5/36
minimum elong	3424 Mar 27 17:40	24° Υ 32'18	1°37′42		3425 Mar 15 20:19	7° Υ 50'12	
evening rise asc. node	3424 Apr 05 11:51	24° Y 32 18 29° Y 15'55		evening rise asc. node	3425 Mar 20 00:12	18° Y 33'58	
asc. Houe	3424 Apr 07 22:03 3424 Apr 08 07:13	0° 8		asc. Houe	3425 Mar 25 19:05 3425 Apr 01 22:55	0° 8	
evening max el	3424 Apr 21 23:07	21° 8 10'46	18°56'13	evening max el	3425 Apr 01 22:33	3° 8 45'04	18°21'57
retrograde	3424 Apr 30 10:19	25° 8 18'38	18 30 13	retrograde	3425 Apr 12 12:22	7° 8 23'02	18 21 37
evening set	3424 May 02 13:35	25° 8 03'55		evening set	3425 Apr 14 21:59	7° 8 00'37	
inferior conj	3424 May 10 15:24	20° 8 47'22	1°18'52	inferior conj	3425 Apr 22 04:37	2° 8 24'14	2°34'37
minimum elong	3424 May 10 18:17	20° 8 42'15	1°17'55	minimum elong	3425 Apr 22 08:21	2° 8 16'29	
min. Earth dist.	3424 May 13 18:49	18° 8 34'32	0.56856 AU	violig	3425 Apr 25 02:08	30°RΥ	
desc. node	3424 May 15 07:12	17° 8 35'17	0.00000110	min. Earth dist.	3425 Apr 25 15:14	29° Υ 33'55	0.58832 AU
morning rise	3424 May 18 19:48	15° 8 44'40		morning rise	3425 Apr 29 15:48	26° Y 50'57	
direct	3424 May 24 02:07	14° 8 38'36		desc. node	3425 May 02 04:13	25° Ƴ 45'27	
morning max el	3424 Jun 07 09:39	22° 8 03'41	25°55'57	direct	3425 May 05 19:46	25° Y ′09'52	
. 8	3424 Jun 14 09:24	0°II			3425 May 16 22:52	0°8	
	3424 Jul 02 08:36	0°9		morning max el	3425 May 20 05:10	2° 8 55'20	27°08'06
asc. node	3424 Jul 04 21:18	5°913'04		Ç	3425 Jun 08 20:13	0°II	
morning set	3424 Jul 05 07:40	6° © 07'39		morning set	3425 Jun 19 16:53	20° Ⅲ 52′17	
Č				asc. node	3425 Jun 21 18:20	25° Ⅱ 14'26	
superior conj	3424 Jul 12 06:45	21° © 15'34	1°10'49		3425 Jun 23 23:04	0°ಅ	
minimum elong	3424 Jul 12 04:25	21° 5 02'41	1°10'26				
max. Earth dist.	3424 Jul 13 00:52	22° © 55'01	1.32336 AU	superior conj	3425 Jun 26 18:33	6° 5 10'49	0°50'36
	3424 Jul 16 06:56	$0^{\circ}\Omega$		minimum elong	3425 Jun 26 16:34	5° © 59'53	0°50'12
evening rise	3424 Jul 19 06:45	6° Ω 20′23		max. Earth dist.	3425 Jun 26 12:31	5° 9 37'35	1.32066 AU
	3424 Jul 31 20:28	0° m		evening rise	3425 Jul 03 14:53	21° 5 04'42	
desc. node	3424 Aug 11 06:31	15° m 31'55			3425 Jul 07 23:23	$0^{\circ}\Omega$	

	3425 Jul 26 11:09	0° m/y		evening max el	3426 Jul 14 11:26	17° Ω 58'12	25°04'48
desc. node	3425 Jul 29 03:32	3°Mp11'16		desc. node	3426 Jul 16 00:33	19° Ω 22'56	23 04 40
evening max el	3425 Aug 01 18:10	6° m 56'34	26°22'12	retrograde	3426 Jul 28 10:44	25°Ω02'59	
retrograde	3425 Aug 15 17:34	14° Mp 07'11	20 22 12	evening set	3426 Aug 02 22:31	23° Ω 53'56	
evening set	3425 Aug 22 07:42	12° m) 19'34		min. Earth dist.	3426 Aug 07 23:06	21°Ω09'26	0.57488 AU
min. Earth dist.	3425 Aug 26 07:21	9° m) 44'19	0.59488 AU	inferior conj	3426 Aug 10 23:09	19°Ω08'25	
inferior conj	3425 Aug 29 14:15	7° Mp 11'46		minimum elong	3426 Aug 10 22:59	19° Ω 08'41	5°07'18
minimum elong	3425 Aug 29 18:29	7° mp 03'31	4°50'40	morning rise	3426 Aug 19 01:56	14° Ω 57'07	0 0, 10
morning rise	3425 Sep 06 07:27	2° m/38'22		direct	3426 Aug 21 15:30	14° Ω 37'52	
direct	3425 Sep 08 17:18	2° m) 17'55		morning max el	3426 Aug 30 13:26	18° Ω 49'27	19°06'23
morning max el	3425 Sep 16 11:41	6° mp 03'30	18°20'43	asc. node	3426 Sep 04 14:35	24° Ω 49'09	
asc. node	3425 Sep 17 17:32	7° m) 20'22			3426 Sep 07 22:48	0° m)	
	3425 Oct 01 16:15	$0 \circ \overline{\mathbf{v}}$		morning set	3426 Sep 16 09:21	15° m) 44'26	
morning set	3425 Oct 02 10:46	1° Ω 28'11		8 2 2 2	3426 Sep 23 14:27	0∘ <u>⊽</u>	
S					1		
superior conj	3425 Oct 11 15:10	18° ≏ 47'20	1°24'31	superior conj	3426 Sep 24 16:03	2° ₽ 04'00	1°39'07
minimum elong	3425 Oct 11 18:51	19° ≙ 04'09	1°24'09	minimum elong	3426 Sep 24 18:06	2° ≙ 13'54	1°39'00
	3425 Oct 17 21:56	0° M.		max. Earth dist.	3426 Oct 01 08:17	14° ≙ 33'02	1.38586 AU
max. Earth dist.	3425 Oct 19 04:02	2° IL 09'49	1.40665 AU	evening rise	3426 Oct 05 03:52	21° ≏ 18′20	
evening rise	3425 Oct 23 17:55	9° ™ 51'21			3426 Oct 10 07:32	0° M	
desc. node	3425 Oct 25 02:50	12°M06'02		desc. node	3426 Oct 11 23:52	2°M44'06	
	3425 Nov 05 15:33	0° ∡ ¹			3426 Oct 30 15:36	0° ∡ ¹	
evening max el	3425 Nov 27 04:00	28° ₺ 00'55	23°24'03	evening max el	3426 Nov 09 16:49	11° ∡ °40′53	24°42'47
	3425 Nov 29 06:28	8°0		retrograde	3426 Nov 21 06:22	18° ∡ ¹24'56	
retrograde	3425 Dec 07 16:18	4° ප 14'15		evening set	3426 Nov 26 19:33	16° ₹ 05'51	
evening set	3425 Dec 12 15:47	2° る 10'47		min. Earth dist.	3426 Dec 01 10:00	10° ∡ ′52'32	0.67546 AU
asc. node	3425 Dec 14 16:46	00'80 ರ ಂ0		asc. node	3426 Dec 01 13:49	10° ∡ ³39'56	
	3425 Dec 14 19:32	30°₽ ,∡ 7		inferior conj	3426 Dec 02 07:29	9° ∡ 741'11	0°15'07
min. Earth dist.	3425 Dec 17 14:28	26° х 23′39	0.67905 AU	minimum elong	3426 Dec 02 07:07	9° ∡ ¹42'26	0°14'57
inferior conj	3425 Dec 18 01:18	25° ∡ ¹46′27	1°07'25	transit middle	3426 Dec 02 07:07	9° ∡ ¹42'26	0°14'57
minimum elong	3425 Dec 17 23:48	25° ∡ ′51′36	1°06'48	transit begin	3426 Dec 02 06:03	9° ∡ ¹45'59	
morning rise	3425 Dec 23 07:45	19° ∡ ³39'15		transit end	3426 Dec 02 08:11	9° ∡ ³38'53	
direct	3425 Dec 27 12:47	18° ₰ 00'23		morning rise	3426 Dec 07 18:47	3° ∡¹ 40′07	
morning max el	3426 Jan 05 00:22	22° ₹ 755'46	21°08'31	direct	3426 Dec 11 10:57	2° ∡ ¹22'32	
	3426 Jan 11 02:14	0°ಕ		morning max el	3426 Dec 19 00:00	6° ∡ ³39'44	19°57'14
desc. node	3426 Jan 21 02:03	13° る 51'47			3427 Jan 05 06:04	0°ಕ	
	3426 Jan 31 19:50	0° ≈		desc. node	3427 Jan 07 23:05	4° る 05'33	
morning set	3426 Feb 04 15:41	5° ≈ 57'22		morning set	3427 Jan 14 11:44	14° る 05'17	
max. Earth dist.	3426 Feb 12 06:14	18° ≈ 08′26	1.42472 AU		3427 Jan 24 15:46	0° ≈	
				max. Earth dist.	3427 Jan 25 16:11	1° ≈ 37'11	1.44050 AU
superior conj	3426 Feb 19 11:30	0° 米 12′28					
minimum elong	3426 Feb 19 12:03	0°) 14'46	2°06'49	superior conj	3427 Jan 30 22:03	10° ≈ 04'05	
	3426 Feb 19 08:35	0° ∀		minimum elong	3427 Jan 30 16:50	9° ≈ 42'54	1°59'37
evening rise	3426 Mar 02 22:41	20° ¥ 25'57			3427 Feb 11 20:24	0° ∀	
	3426 Mar 08 06:58	0° Υ		evening rise	3427 Feb 13 02:51	2° ∺ 10'19	
asc. node	3426 Mar 12 16:07	7° Y °25′18		asc. node	3427 Feb 27 13:09	25°) 40′50	
evening max el	3426 Mar 19 15:22	16° Ƴ 44'43	18°07'35	evening max el	3427 Mar 03 04:06	0° Y 00′18	18°12'23
retrograde	3426 Mar 26 07:10	20° Y ′08'46			3427 Mar 03 03:59	0° Υ	
evening set	3426 Mar 28 22:59	19° Ƴ 36′24		retrograde	3427 Mar 09 14:26	3° Y 24'56	
inferior conj	3426 Apr 04 13:43	14° Y ′39'27	3°18'42	evening set	3427 Mar 12 12:00	2° Y 41'19	
minimum elong	3426 Apr 04 16:12	14° Y 33'30	3°18'21		3427 Mar 16 02:38	30° ₹	
min. Earth dist.	3426 Apr 07 18:31	11° Υ 36'16	0.61013 AU	inferior conj	3427 Mar 18 14:44	27°) 24'31	3°37'04
morning rise	3426 Apr 11 07:27	8° Y 46'13		minimum elong	3427 Mar 18 15:23	27° ¥ 22'45	3°37'02
direct	3426 Apr 18 01:12	6° Y 30'42		min. Earth dist.	3427 Mar 21 06:23	24°) € 32′27	0.63089 AU
desc. node	3426 Apr 19 01:14	6°Υ33'34	0.000 4.614.4	morning rise	3427 Mar 24 17:43	21° ∺ 20′00	
morning max el	3426 May 02 06:55	14° Y 26′26	27°46'11	direct	3427 Mar 31 15:37	18°) 40′05	
	3426 May 14 20:03	0° B		desc. node	3427 Apr 05 22:16	20°¥00′29	27046152
	3426 Jun 01 06:21	0°Ⅱ 5°Ⅲ2214€		morning max el	3427 Apr 14 13:45	26°) 37'37	27°46'52
morning set	3426 Jun 03 22:11	5° Ⅱ 22'46			3427 Apr 17 17:35	0°Υ 0°¥	
asc. node	3426 Jun 08 15:23	15° Ⅱ 21'36	1 22202 411	mannint	3427 May 08 10:34	0° 8	
max. Earth dist.	3426 Jun 09 23:14	18° Ⅱ 14'34	1.32203 AU	morning set	3427 May 18 21:20	19° 8 31'44	
	24261 11 27 22	20011 50:50	0026156	n a e	3427 May 23 22:50	0°Ⅱ 0°Ⅲ22122	1 22777 ***
superior conj	3426 Jun 11 05:28	20° ∏ 59'58	0°26'56	max. Earth dist.	3427 May 24 05:07	0° Ⅱ 33'22	1.32757 AU
minimum elong	3426 Jun 11 04:17	20° ∏ 53'25	0°26'41	·	2427.14	50T2056	000012.4
	3426 Jun 15 08:01	0°55		superior conj	3427 May 26 13:44	5° Ⅱ 36'56	0°00'34
evening rise	3426 Jun 18 01:51	5° © 54'39		minimum elong	3427 May 26 13:42	5° Ⅱ 36'45	0°00'34
	3426 Jun 30 17:52	0 \circ Ω		behind sun begin	3427 May 26 08:27	5° Ⅱ 08'27	

behind sun end	3427 May 26 18:57	6° Ⅱ 05'05		superior conj	3428 May 09 17:19	19° 8 55'13	
asc. node	3427 May 26 12:27	5° Ⅲ 30′01		minimum elong	3428 May 09 18:44	20° 8 02'43	0°27'21
evening rise	3427 Jun 02 13:43	20° Ⅱ 43'33		asc. node	3428 May 12 09:30	25° 8 35'32	
	3427 Jun 07 01:57	0°ಅ			3428 May 14 11:09	Π $^{\circ}0$	
evening max el	3427 Jun 26 00:46	28° © 28'40	23°30'32	evening rise	3428 May 17 00:36	5° Ⅱ 24'57	
	3427 Jun 27 16:42	$0^{\circ}\Omega$			3428 May 30 10:07	0 \circ \odot	
desc. node	3427 Jul 02 21:33	3° Ω 34'23		evening max el	3428 Jun 06 17:16	8°\$57'30	21°54'59
retrograde	3427 Jul 09 15:16	5° Ω 17'21		desc. node	3428 Jun 18 18:34	15°511'10	
evening set	3427 Jul 13 15:30	4° Ω 42'09		retrograde	3428 Jun 19 08:18	15° © 11'56	
min. Earth dist.	3427 Jul 20 10:44	1°Ω32'56	0.55871 AU	evening set	3428 Jun 22 00:44	14° © 55'48	
inferior conj	3427 Jul 22 12:02	0°Ω19'40		inferior conj	3428 Jul 01 09:24	10°951'57	-3°28'51
minimum elong	3427 Jul 22 06:02	0°Ω28'37		minimum elong	3428 Jul 01 01:06	11° © 03'34	
minimum ciong	3427 Jul 23 01:15	30°Rூ	7 72 07	min. Earth dist.	3428 Jun 30 21:28	11°508'38	0.54962 AU
morning rise	3427 Jul 30 23:02	26°\$24'59		morning rise	3428 Jul 10 02:59	7°900'02	0.54702 AC
direct	3427 Jul 30 23.02 3427 Aug 02 18:44	26°\$05'20		direct	3428 Jul 13 07:08	6°937'50	
direct		20 3 03 20					2194050
	3427 Aug 12 03:29		20012142	morning max el	3428 Jul 25 07:29	12° © 15'20	21°40′50
morning max el	3427 Aug 13 04:17	0° £ 54'49	20°13'42		3428 Aug 07 05:47	0 ° Ω	
asc. node	3427 Aug 22 11:39	13° Ω 07'06		asc. node	3428 Aug 08 08:43	2° Ω 01'59	
	3427 Aug 31 10:30	0° m		morning set	3428 Aug 14 23:31	15° Ω 07'15	
morning set	3427 Aug 31 14:25	0° Mp 19'57					
				superior conj	3428 Aug 22 05:56	0° Mp 25′05	1°42'31
superior conj	3427 Sep 08 06:20	16° Mp 00'47	1°44'35	minimum elong	3428 Aug 22 04:53	0° Mp 19′39	1°42'28
minimum elong	3427 Sep 08 06:40	16° Mp 02'29	1°44'35		3428 Aug 22 01:08	0° m	
max. Earth dist.	3427 Sep 13 14:23	26° Mp 30'35	1.36599 AU	max. Earth dist.	3428 Aug 26 03:01	8° Mp 23'56	1.34893 AU
	3427 Sep 15 10:37	0∘ ত		evening rise	3428 Aug 30 12:19	17° mp 02'15	
evening rise	3427 Sep 17 11:28	3° £ 45'57		C	3428 Sep 06 14:40	0∘ ⊽	
desc. node	3427 Sep 28 20:54	23° £ 11'03		desc. node	3428 Sep 14 17:55	13° ≏ 20'25	
dese. Hode	3427 Oct 03 06:54	0°M		dese. node	3428 Sep 26 15:33	0°M	
evening max el	3427 Oct 23 05:13	25°M23'16	25°53'25	evening max el	3428 Oct 04 17:40	9°M00'32	26°48'29
evening max er	3427 Oct 28 18:58	0°×7	23 33 23	retrograde	3428 Oct 17 19:31	16°M16'09	20 402)
retrograde	3427 Nov 04 15:36	2° ∡ 128'00		evening set	3428 Oct 17 19:31 3428 Oct 24 11:30	13°MJ35'10	
•		29°M55'33		min. Earth dist.		9°M33'21	0.65796 AU
evening set	3427 Nov 10 18:48				3428 Oct 28 11:35		
	3427 Nov 10 16:40	30°RM	0.00045.433	inferior conj	3428 Oct 30 07:57	7°M23'38	
min. Earth dist.	3427 Nov 15 01:51		0.66847 AU	minimum elong	3428 Oct 30 10:44	7°M15'28	1°40'08
inferior conj	3427 Nov 16 10:23	23°M35'11		asc. node	3428 Nov 04 07:54	2°M24'10	
minimum elong	3427 Nov 16 11:29	23°M31'44	0°41'07	morning rise	3428 Nov 05 10:43	1°M43'02	
asc. node	3427 Nov 18 10:50	21°M07'25		direct	3428 Nov 08 06:54	0°M58'26	
morning rise	3427 Nov 22 04:32	17° M 42'52		morning max el	3428 Nov 14 20:19	4°M31'55	18°20'13
direct	3427 Nov 25 09:39	16°M43′35			3428 Dec 02 06:22	0° ∡ ¹	
morning max el	3427 Dec 02 07:17	20°M33'37	19°00'41	morning set	3428 Dec 04 03:45	3° ₹ 03'38	
	3427 Dec 09 19:09	0° ∡ ¹		desc. node	3428 Dec 11 17:11	15° ∡ 12'30	
morning set	3427 Dec 24 18:12	22° ₹ 52'51					
desc. node	3427 Dec 25 20:09	24° ₹ ³34'12		superior conj	3428 Dec 19 11:16	27° ∡ ¹28'45	-0°51'05
	3427 Dec 29 07:33	0°రె		minimum elong	3428 Dec 19 04:50	27° х 03′27	0°50'15
max. Earth dist.	3428 Jan 08 08:33	15° ⋜ 43'56	1.45001 AU	max. Earth dist.	3428 Dec 21 03:42	0° る 07'35	1.45218 AU
					3428 Dec 21 01:47	o°る	
superior conj	3428 Jan 10 09:15	18° る 55'49	-1°33'33	evening rise	3429 Jan 04 16:03	22° る 51'46	
minimum elong	3428 Jan 10 00:08	18° る 19'53		evening rise	3429 Jan 09 05:17	0°≈	
mmmam trong	3428 Jan 17 08:25	0°≈		greatest brilliancy	3429 Jan 15 13:16	9° ≈ 51'08	-0.8m
evening rise	3428 Jan 25 09:00	12°≈58'35		evening max el	3429 Jan 28 00:46	26°≈54'32	19°16'11
evening rise	3428 Feb 04 20:55	0° \		asc. node	3429 Jan 31 07:11	20 ≈34 32 29°≈40'24	19 10 11
		13° ∺ 10′12		asc. node		29 ≈ 40 24 0°)	
asc. node	3428 Feb 14 10:11		10025125	. 1	3429 Jan 31 20:15		
evening max el	3428 Feb 14 16:00	13° ¥ 25′11	18°35'35	retrograde	3429 Feb 04 02:09	0°) 56'41	
retrograde	3428 Feb 21 05:58	17° ∺ 03'10			3429 Feb 07 04:52	30° ₹ ≈	
evening set	3428 Feb 24 09:24	16° ∺ 07'30		evening set	3429 Feb 07 12:21	29° ≈ 48′08	
inferior conj	3428 Mar 01 03:42	10°) 32′21	3°36'02	inferior conj	3429 Feb 13 01:08	23° ≈ 56'56	3°20'31
minimum elong	3428 Mar 01 02:46	10° ∺ 35′09	3°35'59	minimum elong	3429 Feb 12 23:09	24° ≈ 03'19	3°20'12
min. Earth dist.	3428 Mar 03 03:45	8°) €08'41	0.64863 AU	min. Earth dist.	3429 Feb 14 09:59	22° ≈ 11'07	0.66237 AU
morning rise	3428 Mar 06 19:38	4°) €21'54		morning rise	3429 Feb 18 09:40	17° ≈ 43'41	
direct	3428 Mar 13 13:21	1°) 31′24		direct	3429 Feb 24 17:30	14° ≈ 55'54	
desc. node	3428 Mar 22 19:19	5°) 35′28		morning max el	3429 Mar 09 09:17	22° ≈ 26'41	26°10'54
morning max el	3428 Mar 26 23:22	9° ∺ 21'37	27°12'47	desc. node	3429 Mar 09 16:22	22° ≈ 44'42	
Č	3428 Apr 12 03:11	$0^{\circ}\Upsilon$			3429 Mar 16 00:55	0°) €	
	3428 Apr 29 19:52	0°8			3429 Apr 05 09:45	_{0°} Υ	
morning set	3428 May 01 11:31	3° 8 10'31		morning set	3429 Apr 14 12:56	16° Ƴ 08'18	
max. Earth dist.	3428 May 06 02:26		1.33754 AU	max. Earth dist.	3429 Apr 18 12:27	23° Υ 43'00	1.35206 AU
max. Durin dist.	5 120 111ay 00 02.20	12 025 75	1.55 / 57 AU	max. Darm dist.	3429 Apr 21 16:43	0° 8	1.55200 AU
					574) Apr 21 10.43	v O	

superior conj	3429 Apr 23 13:51	3° 8 48'14	-0°56'26	max. Earth dist.	3430 Mar 31 11:39	4° Υ 43'39	1.37080 AU
minimum elong	3429 Apr 23 16:49	4° 8 03'23	0°55'53				
asc. node	3429 Apr 29 06:32	15° 8 34'11		superior conj	3430 Apr 07 00:13	17° Y ′06'53	-1°23'58
evening rise	3429 May 01 08:31	19° 8 52'38		minimum elong	3430 Apr 07 04:28	17° Y 27'38	1°23'21
	3429 May 06 10:17	$\Pi^{\circ}0$			3430 Apr 13 11:32	0°8	
evening max el	3429 May 19 19:51	19° Ⅱ 54'48	20°31'01	evening rise	3430 Apr 15 11:07	3° 8 58'49	
retrograde	3429 May 30 21:34	25° Ⅱ 18'46		asc. node	3430 Apr 16 03:33	5° 8 20'53	
evening set	3429 Jun 01 22:13	25° Ⅱ 08'38			3430 Apr 30 23:14	Π °0	
desc. node	3429 Jun 05 15:35	24° Ⅱ 02'31		evening max el	3430 May 02 10:37	1° Ⅱ 32'25	19°25'06
inferior conj	3429 Jun 11 03:25	21° Ⅱ 10′54		retrograde	3430 May 11 18:49	6° Ⅱ 04'28	
minimum elong	3429 Jun 10 22:51	21° Ⅱ 17'31		evening set	3430 May 13 19:00	5° Ⅱ 52'49	
min. Earth dist.	3429 Jun 12 09:42	20° Ⅱ 27'03	0.54982 AU	inferior conj	3430 May 22 08:19	1° Ⅱ 46′27	0°20'36
morning rise	3429 Jun 19 22:37	17° Ⅱ 01'05		minimum elong	3430 May 22 09:11	1° ∏ 45'02	0°20'17
direct	3429 Jun 23 16:58	16° Ⅲ 30'31		desc. node	3430 May 23 12:36	1° Ⅱ 00′20	
morning max el	3429 Jul 07 01:34	22° Ⅱ 58'30	23°21'14	min. Earth dist.	3430 May 25 00:10	0° Ⅱ 03'10	0.55951 AU
	3429 Jul 13 07:24	0°©			3430 May 25 02:11	30°₹ ႘	
asc. node	3429 Jul 26 05:47	21°924'35		morning rise	3430 May 30 20:30	27° 8 03'51	
morning set	3429 Jul 30 10:47	0° Ω 00'55		direct	3430 Jun 04 12:56	26° 8 13'56	
	3429 Jul 30 10:37	0 ° Ω			3430 Jun 14 15:00	0°П	25002151
	2420 4 06 11 47	150 007150	1024112	morning max el	3430 Jun 18 15:39	3° Ⅱ 22'49	25°02'51
superior conj	3429 Aug 06 11:47	15° Ω 07'50		1	3430 Jul 07 10:44	0°50	
minimum elong	3429 Aug 06 09:51	14° £ 57'25		asc. node	3430 Jul 13 02:50	11°506'42	
max. Earth dist.	3429 Aug 09 00:33	20° Ω 31'26	1.33577 AU	morning set	3430 Jul 14 22:32	14° © 55'07	
evening rise	3429 Aug 13 14:56 3429 Aug 14 02:11	0° Т р 0° Тр 56'14		superior conj	3430 Jul 21 21:29	0° Ω 00'32	1°20'40
evening rise	3429 Aug 30 13:54	0° ⊽		minimum elong	3430 Jul 21 21:29 3430 Jul 21 19:09	29° © 47'45	1°20'20
desc. node	3429 Sep 01 14:55	ა = 3° ჲ 04'35		minimum ciong	3430 Jul 21 19:09 3430 Jul 21 21:23	29 3 47 43	1 20 20
evening max el	3429 Sep 17 05:31	22° £ 23'02	27°20'44	max. Earth dist.	3430 Jul 23 05:59	2° Ω 57'43	1.32674 AU
retrograde	3429 Sep 30 17:44	22 = 23 02 29° £ 41'30	27 20 44	evening rise	3430 Jul 29 01:23	15°Ω16'53	1.32074 AU
evening set	3429 Oct 07 19:04	27° ⊆ 00'11		evening rise	3430 Aug 05 15:24	0°m)	
min. Earth dist.	3429 Oct 11 13:08	23° ⊆ 33'12	0.64393 AU	desc. node	3430 Aug 19 11:56	22° Mp 12'56	
inferior conj	3429 Oct 13 21:50	21° ⊆ 01'59		dese. Hode	3430 Aug 25 14:30	0° <u>م</u>	
minimum elong	3429 Oct 14 02:18	20° ♀ 50'02		evening max el	3430 Aug 30 15:04	5° ≏ 18'53	27°23'59
morning rise	3429 Oct 20 10:42	15° £ 36'04		retrograde	3430 Sep 13 09:32	12° £ 34'50	
asc. node	3429 Oct 22 04:57	15° ≏ 05'43		evening set	3430 Sep 20 14:13	10° Ω 04'40	
direct	3429 Oct 23 00:18	15° ჲ 02'21		min. Earth dist.	3430 Sep 24 04:51	7° ≏ 07'13	0.62660 AU
morning max el	3429 Oct 29 12:25	18° ≏ 28'32	17°56'38	inferior conj	3430 Sep 27 01:16	4° Ω 23'55	-3°39'55
	3429 Nov 06 23:33	0° M .		minimum elong	3430 Sep 27 06:54	4° £ 10′25	3°38'15
morning set	3429 Nov 15 17:52	14°ML37'57			3430 Oct 02 11:17	30°R, Mp	
	3429 Nov 24 22:34	0°⊀		morning rise	3430 Oct 04 01:08	29° m 15'54	
desc. node	3429 Nov 28 14:12	5° ∡ ¹56'45		direct	3430 Oct 06 10:56	28° m 49'29	
				asc. node	3430 Oct 09 02:00	29° m 21'50	
superior conj	3429 Nov 29 01:13	6° ⊀ 41'16	-0°03'10		3430 Oct 10 08:15	0∘ ⊽	
minimum elong	3429 Nov 29 00:50	6° ₰ 39'44	0°03'07	morning max el	3430 Oct 13 04:37	2° ≏ 16'30	17°50'51
behind sun begin	3429 Nov 28 14:43	5° ≯ 58'53		morning set	3430 Oct 29 07:00	27° ≏ 18'47	
behind sun end	3429 Nov 29 10:57	7° ∡ ¹20'31			3430 Oct 30 19:18	0° M	
max. Earth dist.	3429 Dec 03 22:16	14° ∡ ²28'49	1.44696 AU				
	3429 Dec 13 20:48	0°₹		superior conj	3430 Nov 09 16:15	17° M 08'15	
evening rise	3429 Dec 15 05:28	2° る 05'54		minimum elong	3430 Nov 09 19:47	17°M23'11	0°38'56
greatest brilliancy	3429 Dec 29 18:19	24°る04'42	-0.6m	desc. node	3430 Nov 15 11:13	26°M44'00	
	3430 Jan 02 21:09	0°≈	20010110	max. Earth dist.	3430 Nov 16 13:50	28°M31'58	1.43511 AU
evening max el	3430 Jan 11 04:44	10°≈25'25	20°12'19		3430 Nov 17 11:39	0° 🗷	
asc. node	3430 Jan 18 04:12	14°≈56'19		evening rise	3430 Nov 24 15:16	11° ₹ 17'29	
retrograde	3430 Jan 19 00:08	15°≈00'06			3430 Dec 07 00:34	0°る 22° ス 5752	21921102
evening set	3430 Jan 22 18:33	13°≈37'34	2052147	evening max el	3430 Dec 25 03:16	23°る57'52	21-21-02
inferior conj	3430 Jan 28 04:10	7°≈32'58		retrograde	3431 Jan 02 21:45	29° る 10'13	
minimum elong min. Earth dist.	3430 Jan 28 01:42 3430 Jan 28 23:13	7°≈41'20 6°≈28'35		asc. node evening set	3431 Jan 05 01:14 3431 Jan 07 02:09	28°る45'03 27°る32'26	
morning rise	3430 Feb 02 08:38	0°≈2833 1°≈19'10	0.07200 AU	inferior conj	3431 Jan 07 02:09 3431 Jan 12 10:32	21° る 32′26	2°18'08
morning 1150	3430 Feb 02 08.38 3430 Feb 04 01:35	1 ≈1910 30°Rる		minimum elong	3431 Jan 12 10.32 3431 Jan 12 08:05	21° る 26'00	2°17'21
direct	3430 Feb 04 01.33 3430 Feb 08 03:17	30 KO 28° 石 44'26		min. Earth dist.	3431 Jan 12 08.03	21 3 2600 20° る 54'23	0.67767 AU
anoct	3430 Feb 12 14:57	28 044 20 0°≈		morning rise	3431 Jan 17 13:48	20 3 3423	0.07107 AU
morning max el	3430 Feb 12 14.57 3430 Feb 19 17:58	0 ∞ 5°≈40'54	24°50'32	direct	3431 Jan 22 17:48	13 3 0437 12° る 50'02	
desc. node	3430 Feb 24 13:24	11°≈00'45	2.5052	morning max el	3431 Feb 02 02:43	12 3 30 02	23°22'05
Lost. Hour	3430 Mar 10 13:15	0° \		desc. node	3431 Feb 11 10:25	0°≈04'39	
morning set	3430 Mar 27 20:26	28°) 09'45			3431 Feb 11 09:01	0° ≈	
0	3430 Mar 28 21:10	0°Υ			3431 Mar 03 17:00	0° ∀	
		•			17.00		

page 178

morning set max. Earth dist.	3431 Mar 09 03:55 3431 Mar 13 06:26	8°¥58'45 16°¥00'53	1.39222 AU	max. Earth dist.	3432 Feb 23 04:56 3432 Feb 24 08:00	28°≈06'38 0° 米	1.41362 AU
superior conj	3431 Mar 20 20:36	29°) 41′50	-1°47'32	superior conj	3432 Mar 01 22:04	11°) 20'40	-2°03'16
minimum elong	3431 Mar 21 01:09	0° Ƴ 03'01	1°47'06	minimum elong	3432 Mar 02 00:54	11°) 33′10	2°03'09
	3431 Mar 21 00:30	$0^{\circ}\mathbf{\Upsilon}$		C	3432 Mar 12 04:30	$0^{\circ}\mathbf{\Upsilon}$	
evening rise	3431 Mar 30 05:37	17° Y 36'34		evening rise	3432 Mar 12 12:32	0° Ƴ 37'11	
asc. node	3431 Apr 03 00:34	24° Y 50'59		asc. node	3432 Mar 19 21:36	13° Y 58'20	
	3431 Apr 05 20:04	$0^{\circ}S$		evening max el	3432 Mar 28 19:53	26° Ƴ 34'35	18°13'27
evening max el	3431 Apr 15 11:43	13° 8 48'33	18°39'11		3432 Apr 03 18:33	0° 8	
retrograde	3431 Apr 23 09:35	17° 8 41'10		retrograde	3432 Apr 04 19:17	0° 8 04'37	
evening set	3431 Apr 25 15:38	17° 8 23'26	1055100		3432 Apr 05 20:15	30°RΥ	
inferior conj	3431 May 03 09:04	12° 8 58'54	1°55'02	evening set	3432 Apr 07 07:45	29° Y 38′01	2056154
minimum elong min. Earth dist.	3431 May 03 12:40 3431 May 06 17:38	12° 8 52'03	1°53'57 0.57660 AU	inferior conj minimum elong	3432 Apr 14 07:07 3432 Apr 14 10:27	24° Υ 52'33 24° Υ 45'08	2°56'54 2°56'12
desc. node	3431 May 10 09:37	8° 8 08'08	0.57000 AU	min. Earth dist.	3432 Apr 17 16:22	24 γ 43 08 21° γ 54'00	0.59758 AU
morning rise	3431 May 11 06:30	7° 8 42'18		morning rise	3432 Apr 21 10:43	19° Υ 09'47	0.57756 AC
direct	3431 May 16 23:02	6° 8 21'40		desc. node	3432 Apr 26 06:38	17° Y 21'00	
morning max el	3431 May 31 07:46	_	26°30'04	direct	3432 Apr 27 21:43	17° Υ 13'40	
S	3431 Jun 13 02:04	0°II		morning max el	3432 May 12 05:51	25° Y 03'35	27°28'53
morning set	3431 Jun 29 09:10	29° Ⅱ 44'44		-	3432 May 16 18:52	8° 0	
asc. node	3431 Jun 29 23:51	1°502'25			3432 Jun 05 09:36	$\Pi^{\circ}0$	
	3431 Jun 29 12:04	0ංම		morning set	3432 Jun 12 17:01	14° Ⅱ 24'34	
				asc. node	3432 Jun 15 20:54	21° Ⅱ 06'56	
superior conj	3431 Jul 06 09:02	14°956'34		max. Earth dist.	3432 Jun 19 04:33	28° Ⅱ 21'16	1.32081 AU
minimum elong	3431 Jul 06 06:47	14°9544'12	1°02'17			_	
max. Earth dist.	3431 Jul 06 16:33	15°937'57	1.32179 AU	superior conj	3432 Jun 19 20:43	29° Ⅱ 50'15	0°40'57
evening rise	3431 Jul 13 06:59	29°955'07		minimum elong	3432 Jun 19 19:00	29° Ⅱ 40'53	0°40'36
	3431 Jul 13 07:55	0° N			3432 Jun 19 22:29	0°ତ 14° ତ 43'21	
desc. node	3431 Jul 29 19:03 3431 Aug 06 08:57	0° Mp 10° Mp 30′30		evening rise	3432 Jun 26 16:38 3432 Jul 04 08:05	0°Ω	
evening max el	3431 Aug 10 08.37	10 mg 30 30	26°54'13	desc. node	3432 Jul 23 05:58	27° Ω 36'36	
retrograde	3431 Aug 26 17:39	24° Mp 46'54	20 34 13	evening max el	3432 Jul 24 17:10	29° Ω 03'53	25°52'12
evening set	3431 Sep 02 16:35	22° m/40'36		evening man er	3432 Jul 25 17:26	0° m	20 02 12
min. Earth dist.	3431 Sep 06 09:55	20° mp 01'51	0.60682 AU	retrograde	3432 Aug 07 16:37	6° m) 11'52	
inferior conj	3431 Sep 09 14:53	17° m/20'33	-4°29'45	evening set	3432 Aug 13 21:26	4° m/40'14	
minimum elong	3431 Sep 09 20:19	17° m 09'07	4°28'41	min. Earth dist.	3432 Aug 18 05:27	2°M 03'32	0.58619 AU
morning rise	3431 Sep 17 01:55	12° My 33'35		inferior conj	3432 Aug 21 11:11	29° Ω 42'14	-5°01'58
direct	3431 Sep 19 10:57	12°M/11'31		minimum elong	3432 Aug 21 13:55	29° Ω 37'15	5°01'47
asc. node	3431 Sep 25 23:04	15° m 04'28			3432 Aug 21 01:31	30°R Ω	
morning max el	3431 Sep 26 17:45	15° m 47'36	18°04'01	morning rise	3432 Aug 29 08:38	25° Ω 18′28	
	3431 Oct 06 15:09	0° ™		direct	3432 Aug 31 19:57	24° £ 58'35	1000=100
morning set	3431 Oct 12 12:52	10° ≏ 47'19		morning max el	3432 Sep 09 00:37	28° £ 53′23	18°37'30
superior conj	3431 Oct 22 09:35	28° ≏ 52'04	1°11'20	asc. node	3432 Sep 10 02:58 3432 Sep 11 20:07	0° Mp 1° Mp 59'19	
minimum elong	3431 Oct 22 03:33	29° ⊆ 10'48	1°10'51	morning set	3432 Sep 25 06:30	24° Mp 49'49	
minimum ciong	3431 Oct 23 00:54	0° M ₁0 48	1 1031	morning set	3432 Sep 27 22:21	0° ന	
max. Earth dist.	3431 Oct 30 00:56	12°ML02'59	1.41806 AU				
desc. node	3431 Nov 02 08:14	17°ML30'26		superior conj	3432 Oct 04 00:40	11° ≏ 40'15	1°31'56
evening rise	3431 Nov 04 13:33	21°ML05'57		minimum elong	3432 Oct 04 03:43	11° ≏ 54'30	1°31'41
	3431 Nov 10 05:27	0° ∡ ¹		max. Earth dist.	3432 Oct 11 07:14	24° £ 51'55	1.39790 AU
	3431 Dec 01 07:29	8°0			3432 Oct 14 06:38	0°M₊	
evening max el	3431 Dec 07 20:43	7° る 31'58	22°38'06	evening rise	3432 Oct 15 09:57	1°M55'33	
retrograde	3431 Dec 17 17:20	13° る 23'18		desc. node	3432 Oct 19 05:17	8°M12'55	
evening set	3431 Dec 22 09:30	11° る 29'13			3432 Nov 02 13:02	0° ∡ 7	
asc. node	3431 Dec 22 22:17	11°る01'20	1025104	evening max el	3432 Nov 19 10:32	21° х 09'14	23°57'58
inferior conj	3431 Dec 27 18:13	5° る 07'21	1°35'04	retrograde	3432 Nov 30 09:42	27° 🗷 36'20	
minimum elong min. Earth dist.	3431 Dec 27 16:15 3431 Dec 27 13:34	5°る14'11 5°る23'26	1°34'20 0.67961 AU	evening set asc. node	3432 Dec 05 15:03 3432 Dec 08 19:20	25° ₹25'49 22° ₹00'36	
mm. Earm tist.	3431 Dec 27 13.34 3431 Dec 31 20:03	30°R⊀	0.07701 AU	min. Earth dist.	3432 Dec 08 19.20 3432 Dec 10 10:02	19° ₹ 53'11	0.67801 AU
morning rise	3432 Jan 01 22:52	28° ₹ 57'51		inferior conj	3432 Dec 10 10:02	19° ₹ 00'53	0.07801 AO 0°45'50
direct	3432 Jan 06 12:05	27°×705'45		minimum elong	3432 Dec 11 01:28	19° ₹ 00'39	0°45'23
	3432 Jan 12 22:50	0°ਰ		morning rise	3432 Dec 16 09:45	12° ≯ 56'16	-
morning max el	3432 Jan 15 15:02	2° පි 26'34	21°55'02	direct	3432 Dec 20 09:06	11° ∡ ¹26'51	
desc. node	3432 Jan 29 07:27	19° る 42'28		morning max el	3432 Dec 28 10:14	16° ₰ 04'19	20°36'34
	3432 Feb 05 09:07	0° ≈			3433 Jan 08 11:35	0°ರ	
morning set	3432 Feb 17 06:35	18° ≈ 24'21		desc. node	3433 Jan 15 04:30	9° ප 45'04	

morning set	3433 Jan 26 08:37	26° る 44'27		direct	3433 Dec 04 07:36	25°M48'54	
morning sec	3433 Jan 28 10:46	0°≈		morning max el	3433 Dec 11 13:22	29°M53'25	19°31'14
max. Earth dist.	3433 Feb 04 10:47	11° ≈ 07'51	1.43210 AU		3433 Dec 11 15:59	0° ₹	
				greatest brilliancy	3433 Dec 24 18:06	17° ∡ ¹26'53	-0.7m
superior conj	3433 Feb 10 23:35	21° ≈ 52'04	-2°06'07	desc. node	3434 Jan 02 01:34	0° る 05'46	
minimum elong	3433 Feb 10 21:50	21° ≈ 44'46	2°06'04		3434 Jan 02 00:04	ರ°0	
	3433 Feb 15 18:45	0° ∀		morning set	3434 Jan 05 06:00	5° る 00'36	
evening rise	3433 Feb 23 03:45	12°) 51'48		max. Earth dist.	3434 Jan 17 23:29	24° る 53'52	1.44532 AU
	3433 Mar 05 02:43	0 ° $\mathbf{\gamma}$			3434 Jan 21 04:29	0° ≈	
asc. node	3433 Mar 06 18:38	2° Ƴ 35'19					
evening max el	3433 Mar 12 07:45	9° Ƴ 41'10	18°07'19	superior conj	3434 Jan 21 23:15	1° ≈ 15′07	-1°51'05
retrograde	3433 Mar 18 20:09	13° Ƴ 04'10		minimum elong	3434 Jan 21 15:47	0° ≈ 45'11	1°50'33
evening set	3433 Mar 21 14:22	12° Y 27′10		evening rise	3434 Feb 04 22:57	24°≈12'51	
inferior conj	3433 Mar 27 23:29	7° Y 21′21	3°29'16		3434 Feb 08 09:37	0° ∀	
minimum elong	3433 Mar 28 01:12	7° Y 17'01	3°29'05	asc. node	3434 Feb 21 15:40	20°) 32′48	
min. Earth dist.	3433 Mar 30 23:07	4° Y 20′24	0.61914 AU	evening max el	3434 Feb 23 20:23	23° ₭ 01'12	18°20'05
morning rise	3433 Apr 03 10:29	1° Y 22'14		retrograde	3434 Mar 02 07:26	26° ∺ 30′27	
	3433 Apr 05 17:28	30° ₹		evening set	3434 Mar 05 07:19	25°) 41′58	
direct	3433 Apr 10 06:55	28°) ₹55'04		inferior conj	3434 Mar 11 06:04		3°38'40
desc. node	3433 Apr 13 03:41	29°) 18'41		minimum elong	3434 Mar 11 05:59		3°38'40
	3433 Apr 15 02:40	0° Υ		min. Earth dist.	3434 Mar 13 15:15	17°) € 35'18	0.63879 AU
morning max el	3433 Apr 24 10:13	6° Y 52'44	27°51'13	morning rise	3434 Mar 17 03:50	14°) €09'27	
	3433 May 11 23:25	0°8		direct	3434 Mar 24 00:45	11°) (23'04	
morning set	3433 May 27 20:02	28° 8 47'05		desc. node	3434 Mar 31 00:42	13°) (44'14	2702 (122
D d E c	3433 May 28 10:16	0°II	1 22204 444	morning max el	3434 Apr 06 18:43	19°) 19′52	27°36'22
max. Earth dist.	3433 Jun 02 13:51	10° I 52'59	1.32384 AU		3434 Apr 15 20:31	$^{\circ \gamma}$	
asc. node	3433 Jun 02 17:56	11° Ⅱ 15′02			3434 May 04 22:26	0° と 12° と 44'40	
avmariar aani	3433 Jun 04 06:42	14° Ⅱ 34'50	0°16'04	morning set max. Earth dist.	3434 May 11 15:46	23° 8 00'14	1.33118 AU
superior conj minimum elong	3433 Jun 04 05:58	14 H 34 30 14° H 30'47	0°15'54	max. Earm dist.	3434 May 16 16:26	23 000 14	1.33118 AU
evening rise	3433 Jun 11 04:12	29° I 33'36	0 13 34	superior conj	3434 May 19 13:13	29° 8 04'39	0011114
evening rise	3433 Jun 11 04:12	29 ഥ 33 30		minimum elong	3434 May 19 13:47	29° 8 07'39	
	3433 Jun 28 01:59	0°Ω		behind sun begin	3434 May 19 09:54	28° 8 46'54	0 11 07
evening max el	3433 Jul 06 07:50	9° Ω 48'34	24°25'47	behind sun end	3434 May 19 17:40	29° 8 28'25	
desc. node	3433 Jul 10 02:59	13° Ω 01'46	24 25 47	bennia san ena	3434 May 19 23:34	0°II	
retrograde	3433 Jul 20 04:45	16° Ω 48'59		asc. node	3434 May 20 14:59	1° Ⅱ 22'46	
evening set	3433 Jul 25 02:11	15° £ 55′23		evening rise	3434 May 26 15:51	14° Ⅱ 19'49	
min. Earth dist.	3433 Jul 30 18:45	13° Ω 02'06	0.56736 AU	<i>8</i> 11	3434 Jun 03 13:18	0ಂತಿ	
inferior conj	3433 Aug 02 11:26	11° Ω 19'28	-5°02'47	evening max el	3434 Jun 17 21:27	20°9514'07	22°49'13
minimum elong	3433 Aug 02 08:45	11° Ω 23'46		desc. node	3434 Jun 26 23:58	26°511'06	
morning rise	3433 Aug 10 17:57	7° Ω 16'49		retrograde	3434 Jul 01 04:28	26° © 51'14	
direct	3433 Aug 13 09:53	6° Ω 57'38		evening set	3434 Jul 04 13:27	26° © 26'15	
morning max el	3433 Aug 22 22:05	11° £ 23′25	19°32'25	min. Earth dist.	3434 Jul 12 05:56	23°502'21	0.55380 AU
asc. node	3433 Aug 29 17:11	19° Ω 50'31		inferior conj	3434 Jul 13 16:42	22°512'21	-4°17'35
	3433 Sep 04 14:39	O° m y		minimum elong	3434 Jul 13 09:00	22° © 23'28	4°15'56
morning set	3433 Sep 09 08:10	9° ™ 15'04		morning rise	3434 Jul 22 06:49	18° © 20'52	
				direct	3434 Jul 25 05:23	18° © 00'40	
superior conj	3433 Sep 17 07:51	25° m 15'55	1°42'27	morning max el	3434 Aug 05 08:00	23° © 10'08	20°48'31
minimum elong	3433 Sep 17 09:09	25° m 22'19	1°42'24		3434 Aug 11 05:28	$0^{\circ}\Omega$	
	3433 Sep 19 18:14	0∘ ত		asc. node	3434 Aug 16 14:13	8° Ω 25'17	
max. Earth dist.	3433 Sep 23 11:22	7° ≏ 00'42	1.37716 AU	morning set	3434 Aug 24 15:09	23° Ω 55'54	
evening rise	3433 Sep 27 05:32	13° ≙ 49'10			3434 Aug 27 13:21	0°Щ	
desc. node	3433 Oct 06 02:20	28° £ 46'47					
	3433 Oct 06 20:40	0° M 0°. ₹		superior conj	3434 Sep 01 02:30	9° m 25'34	
	3433 Oct 28 10:26	0° ∡ 7	2501.411.0	minimum elong	3434 Sep 01 02:12	9° Th 24'02	1°44'32
evening max el	3433 Nov 01 22:48	4° х 49'53	25°14'10	max. Earth dist.	3434 Sep 05 19:18	18° Mp 51'40	1.35832 AU
retrograde	3433 Nov 13 21:56	11° х 44'40		evening rise	3434 Sep 09 21:01	26° m 38'58	
evening set	3433 Nov 19 17:09	9° × 19'12	0.67201 ATT	daga mada	3434 Sep 11 16:38	0∘ ⊽	
min. Earth dist.	3433 Nov 24 04:16	4° ₹20'53 2° ₹55'35	0.67291 AU	desc. node	3434 Sep 22 23:21	19° ≏ 06'50 0° I L	
inferior conj minimum elong	3433 Nov 25 06:29 3433 Nov 25 06:42	2°×'55'35 2°×'54'54	0°08'29 0°08'24	evening max el	3434 Sep 30 06:16 3434 Oct 15 11:09	18°M30'49	26°19'13
transit middle	3433 Nov 25 06:42	2° x '54'54	0°08'24	retrograde	3434 Oct 28 05:10	25°M42'00	20 1713
transit begin	3433 Nov 25 04:19	2 x ·34 34 3° x 02'39	0 00 24	evening set	3434 Nov 03 13:54	23°M05'15	
transit begin	3433 Nov 25 04:19	2° × ⁷ 47'09		min. Earth dist.	3434 Nov 07 17:55	18°M42'23	0.66438 AU
asc. node	3433 Nov 25 16:22	2° × ⁷ 23'29		inferior conj	3434 Nov 09 07:22	16°M47'46	
	3433 Nov 27 14:40	30°RM		minimum elong	3434 Nov 09 09:10	16°M42'16	
morning rise	3433 Nov 30 20:29	26°M58'04		asc. node	3434 Nov 12 13:25	13°M05'47	
					10. - 0		

	2424 N 15 04-50	100 M 50155		::	2425 0-+ 24 02-01	00m 22121	2007/02
morning rise direct	3434 Nov 15 04:59 3434 Nov 18 05:55	10°M59'55 10°M07'28		inferior conj minimum elong	3435 Oct 24 02:01	0°M33'31 0°M23'33	
morning max el	3434 Nov 24 23:21	10 11607 28 13°M49'39	18°41'20	minimum elong	3435 Oct 24 05:32 3435 Oct 24 13:55	0 11623 33 30°RΩ	2 03 38
morning max er	3434 Nov 24 23.21 3434 Dec 06 20:07	13 IIL4939 0° ⊼ 1	18 41 20	morning rise	3435 Oct 24 13.53 3435 Oct 30 08:54	30 K == 24° £ 58'26	
morning got	3434 Dec 06 20:07 3434 Dec 15 22:52	14° ∡ ⁷ 20'35		asc. node	3435 Oct 30 08:34 3435 Oct 30 10:28	24° ⊆ 56'34	
morning set desc. node	3434 Dec 13 22:37	14 x ·2033 20° x 38'51		direct	3435 Nov 02 02:01	24° £ 36'34' 24° £ 18'49	
desc. node		20° メ ・38'31					10000100
Faul die	3434 Dec 25 21:12	9° る 08'12	1 45100 ATT	morning max el	3435 Nov 08 13:59	27° ≏ 48'12 0° ™	18°08'00
max. Earth dist.	3434 Dec 31 16:55	9-00812	1.45182 AU		3435 Nov 10 13:40		
	2425 1 01 04 00	0075045	1017100	morning set	3435 Nov 26 21:09	25°M09'32	
superior conj	3435 Jan 01 04:08	9° る 52'15			3435 Nov 29 19:51	0° ∡ 7	
minimum elong	3434 Dec 31 19:21	9° る 17'46	1°16'00	desc. node	3435 Dec 06 19:39	11° ∡ 120′27	
	3435 Jan 13 21:53	0°≈			2425 7 11 00 52	100 305150	0020140
evening rise	3435 Jan 16 19:02	4°≈36'15		superior conj	3435 Dec 11 08:52	18° ₹ 35'52	
greatest brilliancy	3435 Jan 24 12:21	16°≈58'11	-0.9m	minimum elong	3435 Dec 11 04:59	18° ≯ 20′30	0°30'09
	3435 Feb 02 01:32	0° ∀		max. Earth dist.	3435 Dec 14 12:24	23° ∡ ³34′06	1.45091 AU
evening max el	3435 Feb 07 07:13	6° ∺ 28′29	18°50'53		3435 Dec 18 14:50	0° ろ	
asc. node	3435 Feb 08 12:42	7°) 38'44		evening rise	3435 Dec 27 17:26	14° る 10'10	
retrograde	3435 Feb 14 01:11	10° 米 15′26			3436 Jan 06 23:52	0° ≈	
evening set	3435 Feb 17 07:20	9° ∺ 14'31		greatest brilliancy	3436 Jan 09 13:45	3° ≈ 54'07	-0.7m
inferior conj	3435 Feb 22 22:59	3°) 32′33	3°30'57	evening max el	3436 Jan 21 14:12	19° ≈ 59'19	19°38'18
minimum elong	3435 Feb 22 21:32	3° ∺ 37′02	3°30'48	asc. node	3436 Jan 26 09:43	23° ≈ 39'29	
min. Earth dist.	3435 Feb 24 16:33	1°) €23'57	0.65500 AU	retrograde	3436 Jan 28 22:19	24° ≈ 13'55	
	3435 Feb 25 20:53	30°R ≈		evening set	3436 Feb 01 11:55	22° ≈ 59′26	
morning rise	3435 Feb 28 11:20	27° ≈ 20'39		inferior conj	3436 Feb 06 23:06	17° ≈ 02'21	3°10'21
direct	3435 Mar 07 01:34	24° ≈ 29'28		minimum elong	3436 Feb 06 20:51	17° ≈ 09'47	3°09'54
desc. node	3435 Mar 17 21:45	0° ₩ 02'41		min. Earth dist.	3436 Feb 08 01:53	15° ≈ 34'06	0.66708 AU
	3435 Mar 17 20:34	0° ∀		morning rise	3436 Feb 12 05:34	10° ≈ 48'53	
morning max el	3435 Mar 20 04:29	2° 升 13′22	26°49'15	direct	3436 Feb 18 08:11	8° ≈ 05'35	
	3435 Apr 10 01:15	0 ° Υ		morning max el	3436 Mar 01 13:41	15° ≈ 22'36	25°38'15
morning set	3435 Apr 25 00:58	26° Y 06'59		desc. node	3436 Mar 03 18:49	17° ≈ 43′03	
	3435 Apr 27 01:13	8°			3436 Mar 13 14:28	0° ∀	
max. Earth dist.	3435 Apr 29 08:41	4° 8 34'32	1.34312 AU		3436 Apr 01 21:53	$0^{\circ}\mathbf{\Upsilon}$	
				morning set	3436 Apr 06 19:23	8° Ƴ 42'05	
superior conj	3435 May 03 14:06	13° 8 12'48	-0°39'53	max. Earth dist.	3436 Apr 10 13:41	15° Ƴ 42'39	1.35965 AU
minimum elong	3435 May 03 16:11	13° 8 23'39	0°39'28		•		
asc. node	3435 May 07 12:01	21° 8 25'38		superior conj	3436 Apr 16 06:42	26° Ƴ 52'11	-1°08'25
evening rise	3435 May 11 01:40	28° 8 55'32		minimum elong	3436 Apr 16 10:17	27° Ƴ 10′06	1°07'49
C	3435 May 11 14:05	0°II		Ü	3436 Apr 17 20:00	0°8	
	3435 May 29 20:55	0°€		asc. node	3436 Apr 23 09:02	11° 8 19'41	
evening max el	3435 May 30 17:46	0°952'32	21°17'26	evening rise	3436 Apr 24 07:36	13° 8 14'46	
retrograde	3435 Jun 11 18:08	6°9546'08		<i>5</i>	3436 May 03 02:57	0° I I	
desc. node	3435 Jun 13 20:57	6°935'47		evening max el	3436 May 12 01:32	12° Ⅱ 06'02	20°00'31
evening set	3435 Jun 14 01:34	6°933'51		retrograde	3436 May 22 08:55	17° I 106'49	20 0031
inferior conj	3435 Jun 23 10:48	2°935'03	-2°44'20	evening set	3436 May 24 08:18	16° ∏ 56'35	
minimum elong	3435 Jun 23 03:29		2°41'56	desc. node	3436 May 30 17:59	14° Ⅲ 27'00	
min. Earth dist.	3435 Jun 23 17:19	2°925'56	0.54849 AU	inferior conj	3436 Jun 02 07:44	12° ∏ 56'41	-0°45'34
mm. Eurin dist.	3435 Jun 28 08:53	30°RⅡ	0.5 10 15 110	minimum elong	3436 Jun 02 05:37	12° I 59'53	0°44'46
morning rise	3435 Jul 02 05:53	28° I I37'43		min. Earth dist.	3436 Jun 04 06:01	11° II 47'05	0.55287 AU
direct	3435 Jul 05 15:18	28° I 12'47		morning rise	3436 Jun 11 01:07	8° Ⅲ 34'29	0.00207110
direct	3435 Jul 12 11:58	0°9		direct	3436 Jun 15 04:21	7° I 57'10	
morning max el	3435 Jul 18 06:39	4°912'39	22°22'27	morning max el	3436 Jun 28 22:02	14° Ⅱ 43'31	24°05'22
asc. node	3435 Aug 03 11:17	27°933'06	22 22 21	morning max cr	3436 Jul 10 21:51	0°9	24 03 22
asc. nouc	3435 Aug 04 17:44	27 3 33 00 0° Ω		asc. node	3436 Jul 20 08:19	17° 5 04'47	
morning set	3435 Aug 09 01:24	8° Ω 46'43		morning set	3436 Jul 23 13:04	23° © 41'21	
morning set	3433 Aug 09 01.24	0 064043		morning set		23 3 41 21 0°Ω	
superior conj	3435 Aug 16 05:04	23° Ω 58'54	10301/11		3436 Jul 26 11:48	0 06	
	•	23° Ω 51'02		superior coni	2426 Jul 20 12:49	8° Ω 46'32	1020102
minimum elong	3435 Aug 10 03:35	0° m)	1 3/33	superior conj minimum elong	3436 Jul 30 12:48 3436 Jul 30 10:38	8° Ω 34'47	
max. Earth dist.	3435 Aug 19 02:01 3435 Aug 19 11:45	0° Mp 50'18	1.34286 AU	max. Earth dist.	3436 Jul 30 10:38 3436 Aug 01 13:11	8°8€3447 13° Ω 07'15	1.33141 AU
	-		1.54200 AU		-	24°Ω19'50	1.33141 AU
evening rise	3435 Aug 24 03:56	10° Mp 13′20 0° <u> </u>		evening rise	3436 Aug 06 22:09		
daga mada	3435 Sep 04 02:50			daga mada	3436 Aug 09 18:50	0°Mp 28°m 27'20	
desc. node	3435 Sep 09 20:20	9° Ω 06'50		desc. node	3436 Aug 26 17:19	28° Mp 37'30 0° <u> </u>	
ovenie 1	3435 Sep 25 21:56	0°M	27905120	avani: 1	3436 Aug 27 16:27		27927100
evening max el	3435 Sep 27 23:46	2°M04'38	27°05'29	evening max el	3436 Sep 09 11:03	15° £ 18'07	27 20 00
retrograde	3435 Oct 11 06:41	9°M21'50		retrograde	3436 Sep 23 01:59	22° Ω 35'02	
evening set	3435 Oct 18 03:04	6°M39'56	0.65241 411	evening set	3436 Sep 30 05:47	19° £ 57'02	0.62600 411
min. Earth dist.	3435 Oct 22 00:34	Z 11L3Z3/	0.65241 AU	min. Earth dist.	3436 Oct 03 22:00	16° ≏ 43'40	0.63699 AU

	2426 0 + 06 11 50	1.40 0 0 (100	2007102		2427.0 12 10 22	20 0 50120	
inferior conj	3436 Oct 06 11:50	14° £ 06'08		evening set	3437 Sep 12 18:23	2° £ 50′20	
minimum elong	3436 Oct 06 16:54		3°05'19		3437 Sep 16 10:17	30°R, Mp	
morning rise	3436 Oct 13 05:18	8° ≏ 47'21		min. Earth dist.	3437 Sep 16 08:57	0° ჲ 02'56	
direct	3436 Oct 15 17:04	8° ≏ 16'59		inferior conj	3437 Sep 19 09:47	27° m 18'15	
asc. node	3436 Oct 16 07:31	8° ≏ 18'48		minimum elong	3437 Sep 19 15:35	27° Mp 05'07	4°01'01
morning max el	3436 Oct 22 06:29	11° ≏ 42'12	17°51'57	morning rise	3437 Sep 26 14:29	22° Mp 19'10	
	3436 Nov 03 17:00	0° M		direct	3437 Sep 28 23:37	21° m 54'56	
morning set	3436 Nov 07 21:54	7°M15'06		asc. node	3437 Oct 03 04:34	23°M 13'22	
				morning max el	3437 Oct 05 21:49	25° Mp 24'25	17°54'07
superior conj	3436 Nov 20 08:39	28°M17'59	0°16'02		3437 Oct 09 18:04	0० ⊽	
minimum elong	3436 Nov 20 10:22	28°M25'01	0°15'47	morning set	3437 Oct 21 18:50	20° £ 18′07	
behind sun begin	3436 Nov 20 08:20	28°M16'41		Ü	3437 Oct 27 03:51	0°M	
behind sun end	3436 Nov 20 12:23	28°M33'22					
	3436 Nov 21 09:34	0°×7		superior conj	3437 Nov 01 11:16	9° M 19'15	0°54'22
desc. node	3436 Nov 22 16:39	2° × ⁷ 06'28		minimum elong	3437 Nov 01 11:10	9°M37'09	0°53'49
max. Earth dist.	3436 Nov 26 06:34	7°×752'01	1.44275 AU	max. Earth dist.	3437 Nov 01 13:20 3437 Nov 08 20:21	21°M43'09	1.42838 AU
		23°×18'39	1.442/3 AU	desc. node		21°M53'53	1.42030 AU
evening rise	3436 Dec 06 03:19			desc. node	3437 Nov 09 13:40		
	3436 Dec 10 12:18	ි. ව°0			3437 Nov 13 23:43	0° ₹	
	3436 Dec 31 12:50	0° ≈		evening rise	3437 Nov 15 16:38	2° ∡ '41'23	
evening max el	3437 Jan 03 15:54	3° ≈ 31'01	20°40'11		3437 Dec 03 23:49	0°₹	
retrograde	3437 Jan 11 20:26	8° ≈ 21'04		evening max el	3437 Dec 17 12:00	17° る 03'30	21°53'03
asc. node	3437 Jan 12 06:45	8° ≈ 20'03		retrograde	3437 Dec 26 17:30	22° る 33'08	
evening set	3437 Jan 15 18:58	6° ≈ 51'58		asc. node	3437 Dec 30 03:48	21° පි 29'31	
inferior conj	3437 Jan 21 03:50	0° ≈ 42'25	2°39'39	evening set	3437 Dec 31 02:41	20° る 48'23	
minimum elong	3437 Jan 21 01:18	0° ≈ 51'03	2°38'56	inferior conj	3438 Jan 05 11:00	14° る 29'46	2°00'42
min. Earth dist.	3437 Jan 21 17:22	29° ろ 56'06	0.67492 AU	minimum elong	3438 Jan 05 08:42	14° る 37'46	1°59'54
	3437 Jan 21 16:13	30°R₹		min. Earth dist.	3438 Jan 05 12:43	14° る 23'50	0.67891 AU
morning rise	3437 Jan 26 07:29	24° る 29'07		morning rise	3438 Jan 10 14:34	8° ප 18'11	
direct	3437 Jan 31 19:56	22° る 02'32		direct	3438 Jan 15 12:05	6° ප 13'02	
morning max el	3437 Feb 11 22:16		24°13'19	morning max el	3438 Jan 25 08:15	12° る 02'28	22044'22
morning max cr	3437 Feb 13 05:07	0°≈	24 1317	desc. node	3438 Feb 05 12:54	25° る 41'29	22 44 22
desc. node	3437 Feb 18 15:52	0 ∞ 6° ≈ 21'38		uese. Houe	3438 Feb 08 15:21	23 ⊙ 41 29	
desc. node							
	3437 Mar 07 08:51	0° ∀			3438 Feb 28 05:53	0°) (20)27	
morning set	3437 Mar 19 17:29	20°) 15′05		morning set	3438 Feb 28 13:03	0°) 29′27	
max. Earth dist.	3437 Mar 23 10:35	26°) 48′36	1.37975 AU	max. Earth dist.	3438 Mar 05 06:03	8°) €23'34	1.40145 AU
	3437 Mar 25 04:49	0 ° $\mathbf{\Upsilon}$					
				superior conj	3438 Mar 13 00:37	22° ∺ 06′21	
superior conj	3437 Mar 30 11:41	9° Ƴ 53'59		minimum elong	3438 Mar 13 04:46	22° 升 25′12	1°55'09
minimum elong	3437 Mar 30 16:14	10° Ƴ 15'47	1°34'05		3438 Mar 17 07:13	0 ° Υ	
evening rise	3437 Apr 08 07:12	27° Ƴ 10'41		evening rise	3438 Mar 22 21:16	10° Ƴ 33'56	
	3437 Apr 09 17:39	9° 8		asc. node	3438 Mar 28 03:06	20° Y 22′05	
asc. node	3437 Apr 09 17:39 3437 Apr 10 06:04			asc. node	3438 Mar 28 03:06 3438 Apr 02 20:43	20° Y 22'05 0° ႘	
	3437 Apr 10 06:04	1° 8 00'33	19°03'02	asc. node	3438 Apr 02 20:43		18°25'49
evening max el	3437 Apr 10 06:04 3437 Apr 24 21:00	1° 8 00'33 24° 8 01'02	19°03'02	evening max el	3438 Apr 02 20:43 3438 Apr 08 01:31	0°8 6°831'03	18°25'49
evening max el retrograde	3437 Apr 10 06:04 3437 Apr 24 21:00 3437 May 03 13:27	1°800'33 24°801'02 28°814'51	19°03'02	evening max el retrograde	3438 Apr 02 20:43 3438 Apr 08 01:31 3438 Apr 15 12:35	0°8 6°831'03 10°812'19	18°25'49
evening max el retrograde evening set	3437 Apr 10 06:04 3437 Apr 24 21:00 3437 May 03 13:27 3437 May 05 15:43	1°800'33 24°801'02 28°814'51 28°801'05		evening max el retrograde evening set	3438 Apr 02 20:43 3438 Apr 08 01:31 3438 Apr 15 12:35 3438 Apr 17 21:15	0°8 6°831'03 10°812'19 9°851'13	
evening max el retrograde evening set inferior conj	3437 Apr 10 06:04 3437 Apr 24 21:00 3437 May 03 13:27 3437 May 05 15:43 3437 May 13 20:34	1°800'33 24°801'02 28°814'51 28°801'05 23°847'17	1°04'29	evening max el retrograde evening set inferior conj	3438 Apr 02 20:43 3438 Apr 08 01:31 3438 Apr 15 12:35 3438 Apr 17 21:15 3438 Apr 25 06:37	0°8 6°831'03 10°812'19 9°851'13 5°818'04	2°25'14
evening max el retrograde evening set inferior conj minimum elong	3437 Apr 10 06:04 3437 Apr 24 21:00 3437 May 03 13:27 3437 May 05 15:43 3437 May 13 20:34 3437 May 13 23:01	1°800'33 24°801'02 28°814'51 28°801'05 23°847'17 23°843'01	1°04'29 1°03'38	evening max el retrograde evening set inferior conj minimum elong	3438 Apr 02 20:43 3438 Apr 08 01:31 3438 Apr 15 12:35 3438 Apr 17 21:15 3438 Apr 25 06:37 3438 Apr 25 10:23	0°8 6°831'03 10°812'19 9°851'13 5°818'04 5°810'24	2°25'14 2°24'14
evening max el retrograde evening set inferior conj minimum elong min. Earth dist.	3437 Apr 10 06:04 3437 Apr 24 21:00 3437 May 03 13:27 3437 May 05 15:43 3437 May 13 20:34 3437 May 13 23:01 3437 May 16 21:28	1°800'33 24°801'02 28°814'51 28°801'05 23°847'17 23°843'01 21°841'41	1°04'29	evening max el retrograde evening set inferior conj	3438 Apr 02 20:43 3438 Apr 08 01:31 3438 Apr 15 12:35 3438 Apr 17 21:15 3438 Apr 25 06:37 3438 Apr 25 10:23 3438 Apr 28 17:12	0°8 6°831'03 10°812'19 9°851'13 5°818'04 5°810'24 2°831'48	2°25'14
evening max el retrograde evening set inferior conj minimum elong min. Earth dist. desc. node	3437 Apr 10 06:04 3437 Apr 24 21:00 3437 May 03 13:27 3437 May 05 15:43 3437 May 13 20:34 3437 May 13 23:01 3437 May 16 21:28 3437 May 17 15:01	1°800'33 24°801'02 28°814'51 28°801'05 23°847'17 23°843'01 21°841'41 21°813'00	1°04'29 1°03'38	evening max el retrograde evening set inferior conj minimum elong min. Earth dist.	3438 Apr 02 20:43 3438 Apr 08 01:31 3438 Apr 15 12:35 3438 Apr 17 21:15 3438 Apr 25 06:37 3438 Apr 25 10:23 3438 Apr 28 17:12 3438 May 02 12:00	0°8 6°831'03 10°812'19 9°851'13 5°818'04 5°810'24 2°831'48 30°8°	2°25'14 2°24'14
evening max el retrograde evening set inferior conj minimum elong min. Earth dist. desc. node morning rise	3437 Apr 10 06:04 3437 Apr 24 21:00 3437 May 03 13:27 3437 May 05 15:43 3437 May 13 20:34 3437 May 13 23:01 3437 May 16 21:28 3437 May 17 15:01 3437 May 22 03:10	1°800'33 24°801'02 28°814'51 28°801'05 23°847'17 23°843'01 21°841'41 21°813'00 18°849'37	1°04'29 1°03'38	evening max el retrograde evening set inferior conj minimum elong min. Earth dist.	3438 Apr 02 20:43 3438 Apr 08 01:31 3438 Apr 15 12:35 3438 Apr 17 21:15 3438 Apr 25 06:37 3438 Apr 25 10:23 3438 Apr 28 17:12 3438 May 02 12:00 3438 May 02 20:29	0°8 6°831'03 10°812'19 9°851'13 5°818'04 5°810'24 2°831'48 30°87' 29°7'48'42	2°25'14 2°24'14
evening max el retrograde evening set inferior conj minimum elong min. Earth dist. desc. node morning rise direct	3437 Apr 10 06:04 3437 Apr 24 21:00 3437 May 03 13:27 3437 May 05 15:43 3437 May 13 20:34 3437 May 13 23:01 3437 May 16 21:28 3437 May 17 15:01 3437 May 22 03:10 3437 May 27 05:50	1°800'33 24°801'02 28°814'51 28°801'05 23°847'17 23°843'01 21°841'41 21°813'00 18°849'37 17°848'08	1°04'29 1°03'38 0.56601 AU	evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise desc. node	3438 Apr 02 20:43 3438 Apr 08 01:31 3438 Apr 15 12:35 3438 Apr 17 21:15 3438 Apr 25 06:37 3438 Apr 25 10:23 3438 Apr 28 17:12 3438 May 02 12:00 3438 May 02 20:29 3438 May 04 12:04	0°8 6°831'03 10°812'19 9°851'13 5°818'04 5°810'24 2°831'48 30°RY 29°Y48'42 29°Y03'53	2°25'14 2°24'14
evening max el retrograde evening set inferior conj minimum elong min. Earth dist. desc. node morning rise	3437 Apr 10 06:04 3437 Apr 24 21:00 3437 May 03 13:27 3437 May 05 15:43 3437 May 13 20:34 3437 May 13 23:01 3437 May 16 21:28 3437 May 17 15:01 3437 May 22 03:10 3437 May 27 05:50 3437 Jun 10 12:34	1°800'33 24°801'02 28°814'51 28°801'05 23°847'17 23°843'01 21°841'41 21°813'00 18°849'37 17°848'08 25°809'32	1°04'29 1°03'38 0.56601 AU	evening max el retrograde evening set inferior conj minimum elong min. Earth dist.	3438 Apr 02 20:43 3438 Apr 08 01:31 3438 Apr 15 12:35 3438 Apr 17 21:15 3438 Apr 25 06:37 3438 Apr 25 10:23 3438 Apr 28 17:12 3438 May 02 12:00 3438 May 02 20:29 3438 May 04 12:04 3438 May 08 21:42	0°8 6°831'03 10°812'19 9°851'13 5°818'04 5°810'24 2°831'48 30°87 29°748'42 29°703'53 28°712'55	2°25'14 2°24'14
evening max el retrograde evening set inferior conj minimum elong min. Earth dist. desc. node morning rise direct	3437 Apr 10 06:04 3437 Apr 24 21:00 3437 May 03 13:27 3437 May 05 15:43 3437 May 13 20:34 3437 May 13 23:01 3437 May 16 21:28 3437 May 17 15:01 3437 May 22 03:10 3437 May 27 05:50 3437 Jun 10 12:34 3437 Jun 15 00:33	1°800'33 24°801'02 28°814'51 28°801'05 23°847'17 23°843'01 21°841'41 21°813'00 18°849'37 17°848'08 25°809'32 0°¶	1°04'29 1°03'38 0.56601 AU	evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise desc. node	3438 Apr 02 20:43 3438 Apr 08 01:31 3438 Apr 15 12:35 3438 Apr 17 21:15 3438 Apr 25 06:37 3438 Apr 25 10:23 3438 Apr 28 17:12 3438 May 02 12:00 3438 May 02 20:29 3438 May 04 12:04 3438 May 08 21:42 3438 May 15 12:14	0°8 6°831'03 10°812'19 9°851'13 5°818'04 5°810'24 2°831'48 30°87 29°748'42 29°703'53 28°712'55 0°8	2°25'14 2°24'14 0.58520 AU
evening max el retrograde evening set inferior conj minimum elong min. Earth dist. desc. node morning rise direct	3437 Apr 10 06:04 3437 Apr 24 21:00 3437 May 03 13:27 3437 May 05 15:43 3437 May 13 20:34 3437 May 13 23:01 3437 May 16 21:28 3437 May 17 15:01 3437 May 22 03:10 3437 May 27 05:50 3437 Jun 10 12:34	1°800'33 24°801'02 28°814'51 28°801'05 23°847'17 23°843'01 21°841'41 21°813'00 18°849'37 17°848'08 25°809'32	1°04'29 1°03'38 0.56601 AU	evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise desc. node	3438 Apr 02 20:43 3438 Apr 08 01:31 3438 Apr 15 12:35 3438 Apr 17 21:15 3438 Apr 25 06:37 3438 Apr 25 10:23 3438 Apr 28 17:12 3438 May 02 12:00 3438 May 02 20:29 3438 May 04 12:04 3438 May 08 21:42	0°8 6°831'03 10°812'19 9°851'13 5°818'04 5°810'24 2°831'48 30°87 29°748'42 29°703'53 28°712'55 0°8 5°856'10	2°25'14 2°24'14 0.58520 AU
evening max el retrograde evening set inferior conj minimum elong min. Earth dist. desc. node morning rise direct	3437 Apr 10 06:04 3437 Apr 24 21:00 3437 May 03 13:27 3437 May 05 15:43 3437 May 13 20:34 3437 May 13 23:01 3437 May 16 21:28 3437 May 17 15:01 3437 May 22 03:10 3437 May 27 05:50 3437 Jun 10 12:34 3437 Jun 15 00:33	1°800'33 24°801'02 28°814'51 28°801'05 23°847'17 23°843'01 21°841'41 21°813'00 18°849'37 17°848'08 25°809'32 0°¶	1°04'29 1°03'38 0.56601 AU	evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise desc. node direct	3438 Apr 02 20:43 3438 Apr 08 01:31 3438 Apr 15 12:35 3438 Apr 17 21:15 3438 Apr 25 06:37 3438 Apr 25 10:23 3438 Apr 28 17:12 3438 May 02 12:00 3438 May 02 20:29 3438 May 04 12:04 3438 May 08 21:42 3438 May 15 12:14	0°8 6°831'03 10°812'19 9°851'13 5°818'04 5°810'24 2°831'48 30°87 29°748'42 29°703'53 28°712'55 0°8	2°25'14 2°24'14 0.58520 AU
evening max el retrograde evening set inferior conj minimum elong min. Earth dist. desc. node morning rise direct morning max el	3437 Apr 10 06:04 3437 Apr 24 21:00 3437 May 03 13:27 3437 May 05 15:43 3437 May 13 20:34 3437 May 13 23:01 3437 May 16 21:28 3437 May 17 15:01 3437 May 22 03:10 3437 May 27 05:50 3437 Jun 10 12:34 3437 Jun 15 00:33 3437 Jul 03 20:08	1°800'33 24°801'02 28°814'51 28°801'05 23°847'17 23°843'01 21°841'41 21°813'00 18°849'37 17°848'08 25°809'32 0°II 0°©	1°04'29 1°03'38 0.56601 AU	evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise desc. node direct	3438 Apr 02 20:43 3438 Apr 08 01:31 3438 Apr 15 12:35 3438 Apr 17 21:15 3438 Apr 25 06:37 3438 Apr 25 10:23 3438 Apr 28 17:12 3438 May 02 12:00 3438 May 02 20:29 3438 May 04 12:04 3438 May 08 21:42 3438 May 15 12:14 3438 May 23 07:09	0°8 6°831'03 10°812'19 9°851'13 5°818'04 5°810'24 2°831'48 30°87 29°748'42 29°703'53 28°712'55 0°8 5°856'10	2°25'14 2°24'14 0.58520 AU
evening max el retrograde evening set inferior conj minimum elong min. Earth dist. desc. node morning rise direct morning max el	3437 Apr 10 06:04 3437 Apr 24 21:00 3437 May 03 13:27 3437 May 05 15:43 3437 May 13 20:34 3437 May 13 23:01 3437 May 16 21:28 3437 May 17 15:01 3437 May 22 03:10 3437 May 27 05:50 3437 Jun 10 12:34 3437 Jun 15 00:33 3437 Jul 03 20:08 3437 Jul 07 05:21	1°800'33 24°801'02 28°814'51 28°801'05 23°847'17 23°843'01 21°841'41 21°813'00 18°849'37 17°848'08 25°809'32 0°II 0°99 6°9953'47	1°04'29 1°03'38 0.56601 AU	evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise desc. node direct morning max el	3438 Apr 02 20:43 3438 Apr 08 01:31 3438 Apr 15 12:35 3438 Apr 17 21:15 3438 Apr 25 06:37 3438 Apr 25 10:23 3438 Apr 28 17:12 3438 May 02 12:00 3438 May 02 20:29 3438 May 04 12:04 3438 May 08 21:42 3438 May 15 12:14 3438 May 23 07:09 3438 Jun 10 03:01	0°8 6°831'03 10°812'19 9°851'13 5°818'04 5°810'24 2°831'48 30°87 29°748'42 29°703'53 28°712'55 0°8 5°856'10	2°25'14 2°24'14 0.58520 AU
evening max el retrograde evening set inferior conj minimum elong min. Earth dist. desc. node morning rise direct morning max el	3437 Apr 10 06:04 3437 Apr 24 21:00 3437 May 03 13:27 3437 May 05 15:43 3437 May 13 20:34 3437 May 13 23:01 3437 May 16 21:28 3437 May 17 15:01 3437 May 22 03:10 3437 May 27 05:50 3437 Jun 10 12:34 3437 Jun 15 00:33 3437 Jul 03 20:08 3437 Jul 07 05:21	1°800'33 24°801'02 28°814'51 28°801'05 23°847'17 23°843'01 21°841'41 21°813'00 18°849'37 17°848'08 25°809'32 0°II 0°99 6°9953'47	1°04'29 1°03'38 0.56601 AU	evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise desc. node direct morning max el morning set	3438 Apr 02 20:43 3438 Apr 08 01:31 3438 Apr 15 12:35 3438 Apr 17 21:15 3438 Apr 25 06:37 3438 Apr 25 10:23 3438 Apr 28 17:12 3438 May 02 12:00 3438 May 02 20:29 3438 May 04 12:04 3438 May 08 21:42 3438 May 15 12:14 3438 May 23 07:09 3438 Jun 10 03:01 3438 Jun 22 10:14	0°8 6°831'03 10°812'19 9°851'13 5°818'04 5°810'24 2°831'48 30°8° 29°°48'42 29°°48'42 29°°403'53 28°°412'55 0°8 5°856'10 0°11 23°1121'02	2°25'14 2°24'14 0.58520 AU
evening max el retrograde evening set inferior conj minimum elong min. Earth dist. desc. node morning rise direct morning max el asc. node morning set superior conj	3437 Apr 10 06:04 3437 Apr 24 21:00 3437 May 03 13:27 3437 May 05 15:43 3437 May 13 20:34 3437 May 13 23:01 3437 May 16 21:28 3437 May 17 15:01 3437 May 22 03:10 3437 May 27 05:50 3437 Jun 10 12:34 3437 Jun 15 00:33 3437 Jul 03 20:08 3437 Jul 07 05:21 3437 Jul 08 00:35	1°800'33 24°801'02 28°814'51 28°801'05 23°847'17 23°843'01 21°841'41 21°813'00 18°849'37 17°848'08 25°809'32 0°II 0°99 6°9953'47 8°9934'52	1°04'29 1°03'38 0.56601 AU 25°42'49	evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise desc. node direct morning max el morning set	3438 Apr 02 20:43 3438 Apr 08 01:31 3438 Apr 15 12:35 3438 Apr 17 21:15 3438 Apr 25 06:37 3438 Apr 25 10:23 3438 Apr 28 17:12 3438 May 02 12:00 3438 May 02 20:29 3438 May 04 12:04 3438 May 08 21:42 3438 May 15 12:14 3438 May 23 07:09 3438 Jun 10 03:01 3438 Jun 22 10:14 3438 Jun 24 02:23	0°8 6°831'03 10°812'19 9°851'13 5°818'04 5°810'24 2°831'48 30°8℃ 29°℃48'42 29°℃03'53 28°℃12'55 0°8 5°856'10 0°Ⅱ 23°Ⅱ21'02 26°Ⅱ53'50	2°25'14 2°24'14 0.58520 AU
evening max el retrograde evening set inferior conj minimum elong min. Earth dist. desc. node morning rise direct morning max el asc. node morning set superior conj minimum elong	3437 Apr 10 06:04 3437 Apr 24 21:00 3437 May 03 13:27 3437 May 05 15:43 3437 May 13 20:34 3437 May 13 23:01 3437 May 16 21:28 3437 May 17 15:01 3437 May 22 03:10 3437 May 27 05:50 3437 Jun 10 12:34 3437 Jun 15 00:33 3437 Jul 03 20:08 3437 Jul 07 05:21 3437 Jul 08 00:35 3437 Jul 14 23:32 3437 Jul 14 21:10	1°800'33 24°801'02 28°814'51 28°801'05 23°847'17 23°843'01 21°841'41 21°813'00 18°849'37 17°848'08 25°809'32 0°11 0°9 6°953'47 8°934'52 23°941'46 23°928'50	1°04'29 1°03'38 0.56601 AU 25°42'49	evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise desc. node direct morning max el morning set asc. node	3438 Apr 02 20:43 3438 Apr 08 01:31 3438 Apr 15 12:35 3438 Apr 17 21:15 3438 Apr 25 06:37 3438 Apr 25 10:23 3438 Apr 28 17:12 3438 May 02 12:00 3438 May 02 20:29 3438 May 04 12:04 3438 May 08 21:42 3438 May 15 12:14 3438 May 23 07:09 3438 Jun 10 03:01 3438 Jun 22 10:14 3438 Jun 24 02:23 3438 Jun 25 12:57	0°8 6°831'03 10°812'19 9°851'13 5°818'04 5°810'24 2°831'48 30°87' 29°748'42 29°703'53 28°712'55 0°8 5°856'10 0°IL 23°IL21'02 26°IL53'50 0°S	2°25'14 2°24'14 0.58520 AU 26°59'11
evening max el retrograde evening set inferior conj minimum elong min. Earth dist. desc. node morning rise direct morning max el asc. node morning set superior conj	3437 Apr 10 06:04 3437 Apr 24 21:00 3437 May 03 13:27 3437 May 05 15:43 3437 May 13 20:34 3437 May 13 23:01 3437 May 16 21:28 3437 May 17 15:01 3437 May 22 03:10 3437 May 27 05:50 3437 Jun 10 12:34 3437 Jun 15 00:33 3437 Jul 03 20:08 3437 Jul 07 05:21 3437 Jul 08 00:35 3437 Jul 14 23:32 3437 Jul 14 21:10 3437 Jul 15 21:19	1°800'33 24°801'02 28°814'51 28°801'05 23°847'17 23°843'01 21°841'41 21°813'00 18°849'37 17°848'08 25°809'32 0°11 0°56 6°553'47 8°534'52 23°541'46 23°528'50 25°541'17	1°04'29 1°03'38 0.56601 AU 25°42'49	evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise desc. node direct morning max el morning set asc. node	3438 Apr 02 20:43 3438 Apr 08 01:31 3438 Apr 15 12:35 3438 Apr 17 21:15 3438 Apr 25 06:37 3438 Apr 25 10:23 3438 Apr 28 17:12 3438 May 02 12:00 3438 May 02 20:29 3438 May 04 12:04 3438 May 08 21:42 3438 May 15 12:14 3438 May 23 07:09 3438 Jun 10 03:01 3438 Jun 22 10:14 3438 Jun 24 02:23 3438 Jun 25 12:57	0°8 6°831'03 10°812'19 9°851'13 5°818'04 5°810'24 2°831'48 30°87' 29°748'42 29°703'53 28°712'55 0°8 5°856'10 0°II 23°II21'02 26°I53'50 0°9	2°25'14 2°24'14 0.58520 AU 26°59'11
evening max el retrograde evening set inferior conj minimum elong min. Earth dist. desc. node morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist.	3437 Apr 10 06:04 3437 Apr 24 21:00 3437 May 03 13:27 3437 May 05 15:43 3437 May 13 20:34 3437 May 13 23:01 3437 May 16 21:28 3437 May 17 15:01 3437 May 22 03:10 3437 May 27 05:50 3437 Jun 10 12:34 3437 Jun 15 00:33 3437 Jun 03 20:08 3437 Jul 07 05:21 3437 Jul 08 00:35 3437 Jul 14 23:32 3437 Jul 14 21:10 3437 Jul 15 21:19 3437 Jul 17 20:47	1°800'33 24°801'02 28°814'51 28°801'05 23°847'17 23°843'01 21°841'41 21°813'00 18°849'37 17°848'08 25°809'32 0°11 0°99 6°953'47 8°934'52 23°9941'46 23°9928'50 25°9941'17 0°\$\mathcal{L}\$	1°04'29 1°03'38 0.56601 AU 25°42'49	evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise desc. node direct morning max el morning set asc. node	3438 Apr 02 20:43 3438 Apr 08 01:31 3438 Apr 15 12:35 3438 Apr 17 21:15 3438 Apr 25 06:37 3438 Apr 25 10:23 3438 Apr 28 17:12 3438 May 02 12:00 3438 May 02 20:29 3438 May 04 12:04 3438 May 08 21:42 3438 May 15 12:14 3438 May 23 07:09 3438 Jun 10 03:01 3438 Jun 22 10:14 3438 Jun 24 02:23 3438 Jun 25 12:57	0°8 6°831'03 10°812'19 9°851'13 5°818'04 5°810'24 2°831'48 30°87 29°748'42 29°703'53 28°712'55 0°8 5°856'10 0°II 23°II21'02 26°II53'50 0°9 8°937'34 8°926'10	2°25'14 2°24'14 0.58520 AU 26°59'11 0°53'53 0°53'30
evening max el retrograde evening set inferior conj minimum elong min. Earth dist. desc. node morning rise direct morning max el asc. node morning set superior conj minimum elong	3437 Apr 10 06:04 3437 Apr 24 21:00 3437 May 03 13:27 3437 May 05 15:43 3437 May 13 20:34 3437 May 13 23:01 3437 May 16 21:28 3437 May 17 15:01 3437 May 22 03:10 3437 May 27 05:50 3437 Jun 10 12:34 3437 Jun 15 00:33 3437 Jul 03 20:08 3437 Jul 03 20:08 3437 Jul 07 05:21 3437 Jul 08 00:35 3437 Jul 14 23:32 3437 Jul 14 21:10 3437 Jul 15 21:19 3437 Jul 17 20:47 3437 Jul 22 00:24	1°800'33 24°801'02 28°814'51 28°801'05 23°847'17 23°843'01 21°841'41 21°813'00 18°849'37 17°848'08 25°809'32 0°II 0°© 6°©53'47 8°©34'52 23°©41'46 23°©28'50 25°©41'17 0°Ω 8°Ω49'05	1°04'29 1°03'38 0.56601 AU 25°42'49	evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise desc. node direct morning max el morning set asc. node superior conj minimum elong max. Earth dist.	3438 Apr 02 20:43 3438 Apr 08 01:31 3438 Apr 15 12:35 3438 Apr 17 21:15 3438 Apr 25 06:37 3438 Apr 25 10:23 3438 Apr 28 17:12 3438 May 02 12:00 3438 May 02 20:29 3438 May 04 12:04 3438 May 08 21:42 3438 May 15 12:14 3438 May 23 07:09 3438 Jun 10 03:01 3438 Jun 22 10:14 3438 Jun 22 10:14 3438 Jun 24 02:23 3438 Jun 29 11:21 3438 Jun 29 09:17 3438 Jun 29 09:17 3438 Jun 29 08:45	0°8 6°831'03 10°812'19 9°851'13 5°818'04 5°810'24 2°831'48 30°87 29°748'42 29°703'53 28°712'55 0°8 5°856'10 0°II 23°II21'02 26°II53'50 0°99 8°937'34 8°926'10 8°923'17	2°25'14 2°24'14 0.58520 AU 26°59'11
evening max el retrograde evening set inferior conj minimum elong min. Earth dist. desc. node morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise	3437 Apr 10 06:04 3437 Apr 24 21:00 3437 May 03 13:27 3437 May 05 15:43 3437 May 13 20:34 3437 May 13 23:01 3437 May 16 21:28 3437 May 17 15:01 3437 May 27 05:50 3437 Jun 10 12:34 3437 Jun 15 00:33 3437 Jul 03 20:08 3437 Jul 08 00:35 3437 Jul 14 21:10 3437 Jul 14 21:10 3437 Jul 15 21:19 3437 Jul 17 20:47 3437 Jul 22 00:24 3437 Aug 02 03:47	1°800'33 24°801'02 28°814'51 28°801'05 23°847'17 23°843'01 21°841'41 21°813'00 18°849'37 17°848'08 25°809'32 0°II 0°9 6°953'47 8°934'52 23°941'46 23°928'50 25°941'17 0°\$\Omega\$ 8°\$\Omega\$49'05 0°\$\mathbf{m}\$	1°04'29 1°03'38 0.56601 AU 25°42'49	evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise desc. node direct morning max el morning set asc. node	3438 Apr 02 20:43 3438 Apr 08 01:31 3438 Apr 15 12:35 3438 Apr 17 21:15 3438 Apr 25 06:37 3438 Apr 25 10:23 3438 Apr 28 17:12 3438 May 02 12:00 3438 May 02 20:29 3438 May 04 12:04 3438 May 08 21:42 3438 May 15 12:14 3438 May 23 07:09 3438 Jun 10 03:01 3438 Jun 20 10:14 3438 Jun 22 10:14 3438 Jun 25 12:57 3438 Jun 29 11:21 3438 Jun 29 09:17 3438 Jun 29 08:45 3438 Jul 06 07:58	0°8 6°831'03 10°812'19 9°851'13 5°818'04 5°810'24 2°831'48 30°87 29°748'42 29°703'53 28°712'55 0°8 5°856'10 0°II 23°II21'02 26°II53'50 0°99 8°937'34 8°926'10 8°923'17 23°932'09	2°25'14 2°24'14 0.58520 AU 26°59'11 0°53'53 0°53'30
evening max el retrograde evening set inferior conj minimum elong min. Earth dist. desc. node morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise desc. node	3437 Apr 10 06:04 3437 Apr 24 21:00 3437 May 03 13:27 3437 May 05 15:43 3437 May 13 20:34 3437 May 13 23:01 3437 May 16 21:28 3437 May 17 15:01 3437 May 27 05:50 3437 Jun 10 12:34 3437 Jun 15 00:33 3437 Jul 03 20:08 3437 Jul 03 20:08 3437 Jul 08 00:35 3437 Jul 14 23:32 3437 Jul 14 21:10 3437 Jul 15 21:19 3437 Jul 17 20:47 3437 Jul 22 00:24 3437 Aug 02 03:47 3437 Aug 13 14:20	1°800'33 24°801'02 28°814'51 28°801'05 23°847'17 23°843'01 21°841'41 21°813'00 18°849'37 17°848'08 25°809'32 0°II 0°9 6°953'47 8°934'52 23°941'46 23°928'50 25°941'17 0°\$ 8°\$\Omega{4}9'05 0°\$\mathbf{m}} 17°\$\mathbf{m}\$26'36	1°04'29 1°03'38 0.56601 AU 25°42'49 1°13'32 1°13'11 1.32411 AU	evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise desc. node direct morning max el morning set asc. node superior conj minimum elong max. Earth dist.	3438 Apr 02 20:43 3438 Apr 08 01:31 3438 Apr 15 12:35 3438 Apr 17 21:15 3438 Apr 25 06:37 3438 Apr 25 10:23 3438 Apr 28 17:12 3438 May 02 12:00 3438 May 02 20:29 3438 May 04 12:04 3438 May 08 21:42 3438 May 15 12:14 3438 May 23 07:09 3438 Jun 10 03:01 3438 Jun 20 10:14 3438 Jun 22 10:14 3438 Jun 25 12:57 3438 Jun 29 11:21 3438 Jun 29 09:17 3438 Jun 29 08:45 3438 Jul 06 07:58 3438 Jul 09 11:07	0°8 6°831'03 10°812'19 9°851'13 5°818'04 5°810'24 2°831'48 30°8° 29°°48'42 29°°48'42 29°°48'42 29°°48'42 29°403'53 28°412'55 0°8 5°856'10 0°11 23°121'02 26°153'50 0°9 8°937'34 8°926'10 8°923'17 23°932'09 0°\$\ellipseq\$0	2°25'14 2°24'14 0.58520 AU 26°59'11 0°53'53 0°53'30
evening max el retrograde evening set inferior conj minimum elong min. Earth dist. desc. node morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise	3437 Apr 10 06:04 3437 Apr 24 21:00 3437 May 03 13:27 3437 May 05 15:43 3437 May 13 20:34 3437 May 13 23:01 3437 May 16 21:28 3437 May 17 15:01 3437 May 22 03:10 3437 May 27 05:50 3437 Jun 10 12:34 3437 Jun 15 00:33 3437 Jul 03 20:08 3437 Jul 07 05:21 3437 Jul 08 00:35 3437 Jul 14 23:32 3437 Jul 14 21:10 3437 Jul 15 21:19 3437 Jul 17 20:47 3437 Jul 22 00:24 3437 Aug 02 03:47 3437 Aug 13 14:20 3437 Aug 22 18:39	1°800'33 24°801'02 28°814'51 28°801'05 23°847'17 23°843'01 21°841'41 21°813'00 18°849'37 17°848'08 25°809'32 0°II 0°9 6°953'47 8°934'52 23°941'46 23°928'50 25°941'17 0°\$\mathred{Q}\$ 8°\$\mathred{Q}\$49'05 0°\$\mathred{m}\$ 17°\$\mathred{m}\$26'36 27°\$\mathred{m}\$57'58	1°04'29 1°03'38 0.56601 AU 25°42'49 1°13'32 1°13'11 1.32411 AU	evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise desc. node direct morning set asc. node superior conj minimum elong max. Earth dist. evening rise	3438 Apr 02 20:43 3438 Apr 08 01:31 3438 Apr 15 12:35 3438 Apr 17 21:15 3438 Apr 25 06:37 3438 Apr 25 10:23 3438 Apr 28 17:12 3438 May 02 12:00 3438 May 02 20:29 3438 May 04 12:04 3438 May 04 12:04 3438 May 05 21:42 3438 May 15 12:14 3438 May 23 07:09 3438 Jun 10 03:01 3438 Jun 20 10:14 3438 Jun 22 10:14 3438 Jun 25 12:57 3438 Jun 29 09:17 3438 Jun 29 09:17 3438 Jun 29 08:45 3438 Jul 06 07:58 3438 Jul 09 11:07 3438 Jul 27 06:04	0°8 6°831'03 10°812'19 9°851'13 5°818'04 5°810'24 2°831'48 30°87 29°748'42 29°703'53 28°712'55 0°8 5°856'10 0°11 23°1121'02 26°153'50 0°9 8°937'34 8°926'10 8°923'17 23°932'09 0°10	2°25'14 2°24'14 0.58520 AU 26°59'11 0°53'53 0°53'30
evening max el retrograde evening set inferior conj minimum elong min. Earth dist. desc. node morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise desc. node evening max el	3437 Apr 10 06:04 3437 Apr 24 21:00 3437 May 03 13:27 3437 May 05 15:43 3437 May 13 20:34 3437 May 13 23:01 3437 May 16 21:28 3437 May 17 15:01 3437 May 22 03:10 3437 May 27 05:50 3437 Jun 10 12:34 3437 Jun 15 00:33 3437 Jul 03 20:08 3437 Jul 07 05:21 3437 Jul 08 00:35 3437 Jul 14 23:32 3437 Jul 14 21:10 3437 Jul 15 21:19 3437 Jul 17 20:47 3437 Jul 22 00:24 3437 Aug 02 03:47 3437 Aug 13 14:20 3437 Aug 22 18:39 3437 Aug 25 01:34	1°800'33 24°801'02 28°814'51 28°801'05 23°847'17 23°843'01 21°841'41 21°813'00 18°849'37 17°848'08 25°809'32 0°11 0°56 6°553'47 8°534'52 23°541'46 23°528'50 25°541'17 0°10 8°14'9'05 0°10 17°10 26'36 27°10 57'58 0°5	1°04'29 1°03'38 0.56601 AU 25°42'49 1°13'32 1°13'11 1.32411 AU	evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise desc. node direct morning max el morning set asc. node superior conj minimum elong max. Earth dist. evening rise	3438 Apr 02 20:43 3438 Apr 08 01:31 3438 Apr 15 12:35 3438 Apr 17 21:15 3438 Apr 25 06:37 3438 Apr 25 10:23 3438 Apr 25 10:23 3438 Apr 28 17:12 3438 May 02 12:00 3438 May 02 20:29 3438 May 04 12:04 3438 May 08 21:42 3438 May 15 12:14 3438 May 23 07:09 3438 Jun 10 03:01 3438 Jun 20 10:14 3438 Jun 22 10:14 3438 Jun 25 12:57 3438 Jun 29 11:21 3438 Jun 29 09:17 3438 Jun 29 08:45 3438 Jul 09 11:07 3438 Jul 07 06:04 3438 Jul 27 06:04 3438 Jul 31 11:21	0°8 6°831'03 10°812'19 9°851'13 5°818'04 5°810'24 2°831'48 30°87 29°748'42 29°703'53 28°712'55 0°8 5°856'10 0°11 23°1121'02 26°153'50 0°9 8°937'34 8°926'10 8°923'17 23°932'09 0°10 0°10 5°10,0°10	2°25'14 2°24'14 0.58520 AU 26°59'11 0°53'53 0°53'30 1.32084 AU
evening max el retrograde evening set inferior conj minimum elong min. Earth dist. desc. node morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise desc. node	3437 Apr 10 06:04 3437 Apr 24 21:00 3437 May 03 13:27 3437 May 05 15:43 3437 May 13 20:34 3437 May 13 23:01 3437 May 16 21:28 3437 May 17 15:01 3437 May 22 03:10 3437 May 27 05:50 3437 Jun 10 12:34 3437 Jun 15 00:33 3437 Jul 03 20:08 3437 Jul 07 05:21 3437 Jul 08 00:35 3437 Jul 14 23:32 3437 Jul 14 21:10 3437 Jul 15 21:19 3437 Jul 17 20:47 3437 Jul 22 00:24 3437 Aug 02 03:47 3437 Aug 13 14:20 3437 Aug 22 18:39	1°800'33 24°801'02 28°814'51 28°801'05 23°847'17 23°843'01 21°841'41 21°813'00 18°849'37 17°848'08 25°809'32 0°II 0°9 6°953'47 8°934'52 23°941'46 23°928'50 25°941'17 0°\$\mathred{Q}\$ 8°\$\mathred{Q}\$49'05 0°\$\mathred{m}\$ 17°\$\mathred{m}\$26'36 27°\$\mathred{m}\$57'58	1°04'29 1°03'38 0.56601 AU 25°42'49 1°13'32 1°13'11 1.32411 AU	evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise desc. node direct morning set asc. node superior conj minimum elong max. Earth dist. evening rise	3438 Apr 02 20:43 3438 Apr 08 01:31 3438 Apr 15 12:35 3438 Apr 17 21:15 3438 Apr 25 06:37 3438 Apr 25 10:23 3438 Apr 28 17:12 3438 May 02 12:00 3438 May 02 20:29 3438 May 04 12:04 3438 May 04 12:04 3438 May 05 21:42 3438 May 15 12:14 3438 May 23 07:09 3438 Jun 10 03:01 3438 Jun 20 10:14 3438 Jun 22 10:14 3438 Jun 25 12:57 3438 Jun 29 09:17 3438 Jun 29 09:17 3438 Jun 29 08:45 3438 Jul 06 07:58 3438 Jul 09 11:07 3438 Jul 27 06:04	0°8 6°831'03 10°812'19 9°851'13 5°818'04 5°810'24 2°831'48 30°87 29°748'42 29°703'53 28°712'55 0°8 5°856'10 0°11 23°1121'02 26°153'50 0°9 8°937'34 8°926'10 8°923'17 23°932'09 0°10	2°25'14 2°24'14 0.58520 AU 26°59'11 0°53'53 0°53'30 1.32084 AU

retrograde	3438 Aug 18 19:26	17° m 04'40		evening set	3439 Aug 06 06:40	26° Ω 53'11	
evening set	3438 Aug 25 12:10	17 mg 04 40		min. Earth dist.	3439 Aug 11 02:26	24°Ω11'11	0.57772 AU
min. Earth dist.	3438 Aug 29 09:45	12° m) 36'18	0.59795 AU	inferior conj	3439 Aug 14 04:22	22°Ω04'30	
inferior conj	3438 Sep 01 16:25	10° mp 00'52		minimum elong	3439 Aug 14 05:02	22°Ω03'21	
minimum elong	3438 Sep 01 21:04	9° mp 51'38		morning rise	3439 Aug 22 05:47	17° Ω 49'59	
morning rise	3438 Sep 09 08:03	5° m 23'55		direct	3439 Aug 24 18:43	17° Ω 30'35	
direct	3438 Sep 11 17:33	5° m 03'09		morning max el	3439 Sep 02 11:53	21° Ω 37'32	18°58'13
morning max el	3438 Sep 19 08:44	8° Mp 46'09	18°15'46	asc. node	3439 Sep 06 22:40	26° Ω 48'57	
asc. node	3438 Sep 20 01:37	9° mp 28'31			3439 Sep 09 02:45	O° mp	
	3438 Oct 03 02:52	0∘ ⊽		morning set	3439 Sep 19 03:38	18° Mp 15'35	
morning set	3438 Oct 05 06:13	4° ≏ 02'28		C	3439 Sep 25 02:39	0∘ ⊽	
superior conj	3438 Oct 14 14:34	21° ≏ 32'39	1°21'24	superior conj	3439 Sep 27 13:04		1°37'32
minimum elong	3438 Oct 14 18:25	21° ⊆ 50′10	1°21'00	minimum elong	3439 Sep 27 15:23		1°37'22
T 4 T	3438 Oct 19 08:20	0°M	1 40065 177	max. Earth dist.	3439 Oct 04 09:27	17° £ 24'53	1.38896 AU
max. Earth dist.	3438 Oct 22 04:42	4°M54'52	1.40965 AU	evening rise	3439 Oct 08 06:11	24° £ 12'05	
evening rise	3438 Oct 26 23:42	12°M54'34			3439 Oct 11 16:31	0°M	
desc. node	3438 Oct 27 10:42	13°M39'24		desc. node	3439 Oct 14 07:43	4°M18'49	
	3438 Nov 06 21:44 3438 Nov 29 12:14	0°♂		avanina may al	3439 Oct 31 16:08	0° ₰ 14° ₰ 18'54	24921124
evening max el	3438 Nov 30 03:39	0° ろ 39'17	22012100	evening max el retrograde	3439 Nov 12 16:43 3439 Nov 24 02:35	20° 🖈 58'39	24 31 24
retrograde	3438 Dec 10 11:59	6° る 47'06	23 12 06	evening set	3439 Nov 29 13:44	20 x 38 39 18° x 41'47	
evening set	3438 Dec 15 09:29	4° ਰ 46'11		asc. node	3439 Dec 03 21:54	13° х 41'47	
asc. node	3438 Dec 17 00:51	3°る10'36		min. Earth dist.	3439 Dec 03 21:34 3439 Dec 04 05:22	13°× 4813	0.67624 AU
asc. node	3438 Dec 17 00:31	30°R.∡7		inferior conj	3439 Dec 05 01:15	13 × 23 28 12°× 17'02	0.07024 AC
inferior conj	3438 Dec 20 18:45	28° ₹ 22'21	1°14'55	minimum elong	3439 Dec 05 00:41	12° × 17' 02	0°23'08
minimum elong	3438 Dec 20 17:07	28°×2221	1°14'16	morning rise	3439 Dec 10 11:43	6°×14'58	0 23 00
min. Earth dist.	3438 Dec 20 09:32	28° × 54'06	0.67930 AU	direct	3439 Dec 14 05:43	4° × ⁷ 54'19	
morning rise	3438 Dec 26 00:39	22° × 14'25	0.07950110	morning max el	3439 Dec 21 21:37	9° х 16'17	20°07'00
direct	3438 Dec 30 07:48	20° х 32′04			3440 Jan 06 11:31	0°ප	
morning max el	3439 Jan 07 23:11	25° ₹ 33'51	21°20'13	desc. node	3440 Jan 10 06:59	5° る 42'38	
	3439 Jan 11 22:38	0°る		morning set	3440 Jan 18 00:43	17° る 32'02	
desc. node	3439 Jan 23 09:57	15° る 31'23		Č	3440 Jan 26 00:06	0° ≈	
	3439 Feb 02 02:57	0° ≈		max. Earth dist.	3440 Jan 28 16:02	4°≈14'25	1.43854 AU
morning set	3439 Feb 08 03:53	9° ≈ 23'06					
max. Earth dist.	3439 Feb 15 06:59	20°≈51'42	1.42198 AU	superior conj	3440 Feb 03 06:58	13° ≈ 20′27	-2°02'08
	3439 Feb 20 18:10	0°) €		minimum elong	3440 Feb 03 02:39	13° ≈ 02'48	2°01'58
					3440 Feb 13 05:24	0°) €	
superior conj	3439 Feb 22 16:30	3° ₩ 18'16	-2°06'22	evening rise	3440 Feb 16 05:13	5°) €08'53	
minimum elong	3439 Feb 22 17:45	3° ∺ 23'37	2°06'21	asc. node	3440 Feb 29 21:11	27° ₩ 39'33	
evening rise	3439 Mar 05 22:03	23°) (16′16			3440 Mar 02 15:23	0 ° $\mathbf{\Upsilon}$	
	3439 Mar 09 15:20	0 ° Υ		evening max el	3440 Mar 05 00:18	2° Ƴ 41'09	18°10'28
asc. node	3439 Mar 15 00:09	9° Ƴ 17'52		retrograde	3440 Mar 11 10:49	6° Ƴ 04'54	
evening max el	3439 Mar 22 11:43	19° Ƴ 27'29	18°08'30	evening set	3440 Mar 14 07:33	5° Y 22'57	
retrograde	3439 Mar 29 05:05	22° Y 52′27		inferior conj	3440 Mar 20 11:49	0° Υ 08'52	
evening set	3439 Mar 31 20:05	22° Y 21'35		minimum elong	3440 Mar 20 12:44	0° Υ 06'24	3°35'35
inferior conj	3439 Apr 07 12:56		3°13'48		3440 Mar 20 15:08	30° ₹	
minimum elong	3439 Apr 07 15:40	17° Y 21′13	3°13'21	min. Earth dist.	3440 Mar 23 05:36		0.62793 AU
min. Earth dist.	3439 Apr 10 19:11	14° Υ 24'53	0.60691 AU	morning rise	3440 Mar 26 16:47	24°) (05'38	
morning rise	3439 Apr 14 09:10	11° Υ 36'55		direct	3440 Apr 02 14:34	21°) (28'41	
direct	3439 Apr 21 01:33	9° Υ 26'07		desc. node	3440 Apr 07 06:09	22°) (31'04	27040114
desc. node	3439 Apr 21 09:07	9° Υ 26'24	27942152	morning max el	3440 Apr 16 14:08	29° ¥ 26′16 0° Ƴ	2/°49'14
morning max el	3439 May 05 07:53		27°42'52		3440 Apr 17 03:28	0° ∀	
	3439 May 15 20:01 3439 Jun 02 17:54	0°B 0°B		marning act	3440 May 08 18:22	22° 8 07'18	
morning set	3439 Jun 06 16:15	0 П 7°П54'06		morning set	3440 May 20 16:31 3440 May 24 12:08	0° I	
morning set asc. node	3439 Jun 10 23:26	17° Ⅱ 00′25		max. Earth dist.	3440 May 26 02:53	3° ∏ 25'40	1.32645 AU
max. Earth dist.	3439 Jun 12 19:54	21° I I02'16	1.32159 AU	asc. node	3440 May 27 20:29	7° Ⅱ 09'15	1.32043 AU
max. Darui dist.	5757 Jun 12 17.54	21 110210	1.5215) AU	use. Houc	5-70 111ay 21 20.29	, 110913	
superior conj	3439 Jun 13 22:31	23° Ⅱ 28′10	0°30'44	superior conj	3440 May 28 07:18	8° Ⅱ 07'45	0°04'45
minimum elong	3439 Jun 13 21:11		0°30'27	minimum elong	3440 May 28 07:04	8° Ⅲ 06'31	0°04'42
Į.	3439 Jun 16 21:52	0° ©		behind sun begin	3440 May 28 02:03	7° Ⅱ 39'23	
evening rise	3437 Juli 10 21.32			-			
evening rise	3439 Jun 20 18:39	8° 5 22'00		behind sun end	3440 May 28 12:05	8° Ⅲ 33'42	
evening rise		8°\$22'00 0°Ω		behind sun end evening rise	3440 May 28 12:05 3440 Jun 04 06:31	8°Ⅲ33'42 23°Ⅲ12'02	
evening max el	3439 Jun 20 18:39	$0^{\circ}\Omega$	25°17'44			23°∏12′02 0°©	
	3439 Jun 20 18:39 3439 Jul 01 23:20	$0^{\circ}\Omega$	25°17'44		3440 Jun 04 06:31	23° II 12'02	
evening max el	3439 Jun 20 18:39 3439 Jul 01 23:20 3439 Jul 17 14:35	0° Ω 21° Ω 02'23	25°17'44		3440 Jun 04 06:31 3440 Jun 07 13:02	23°∏12′02 0°©	23°45'02

desc. node	3440 Jul 04 05:23	6° Ω 16'44		evening max el	3441 Jun 09 19:30	12° © 03'03	22°08'46
retrograde	3440 Jul 11 20:32	8° Ω 28'31		desc. node	3441 Jun 21 02:24	18° © 18'51	22 00 40
evening set	3440 Jul 16 02:26	7° Ω 48'54		retrograde	3441 Jun 22 15:16	18° © 24'17	
min. Earth dist.	3440 Jul 22 14:19	4°Ω44'20	0.56078 AU	evening set	3441 Jun 25 11:31	18°506'19	
inferior conj	3440 Jul 24 20:11	3°Ω23'05		min. Earth dist.	3441 Jul 04 01:01	14°925'42	0.55040 AU
minimum elong	3440 Jul 24 14:58	3° Ω 30'59		inferior conj	3441 Jul 04 19:14	14°9500'05	
Z .	3440 Jul 31 09:19	30° №		minimum elong	3441 Jul 04 10:52	14°9511'50	3°40'54
morning rise	3440 Aug 02 06:04	29°526'47		morning rise	3441 Jul 13 12:02	10° © 09'03	
direct	3440 Aug 05 00:48	29° 5 07'16		direct	3441 Jul 16 14:32	9°547'33	
	3440 Aug 09 10:49	$0^{\circ}\Omega$		morning max el	3441 Jul 28 09:26	15°517'32	21°26'44
morning max el	3440 Aug 15 04:31	3° Ω 50′01	20°02'16		3441 Aug 08 12:14	$0^{\circ}\Omega$	
asc. node	3440 Aug 23 19:43	15° Ω 00′39		asc. node	3441 Aug 10 16:45	3° Ω 50'35	
	3440 Aug 31 22:22	0° m)		morning set	3441 Aug 17 16:30	17° Ω 35′04	
morning set	3440 Sep 02 07:53	2° Mp 49'06			3441 Aug 23 14:25	0° m)	
superior conj	3440 Sep 10 01:38	18° Mp 34'24	1°44'17	superior conj	3441 Aug 25 00:02	2° m 55'30	1°43'15
minimum elong	3440 Sep 10 02:13	18° Mp 37'19	1°44'15	minimum elong	3441 Aug 24 23:11	2° m 51'02	1°43'13
max. Earth dist.	3440 Sep 15 14:58	29° m 25'23	1.36884 AU	max. Earth dist.	3441 Aug 29 02:15	11° Mp 17'28	1.35126 AU
	3440 Sep 15 22:16	0∘ ʊ		evening rise	3441 Sep 02 09:21	19° m 41'18	
evening rise	3440 Sep 19 10:48	6° £ 31'23		1 1	3441 Sep 08 00:21	0∘ ⊽	
desc. node	3440 Sep 30 04:44	24° ≗ 47'52 0° ™		desc. node	3441 Sep 17 01:44	15° ჲ 00'23 0° ル	
avanina may al	3440 Oct 03 12:47		25042120	avanina may al	3441 Sep 27 13:28 3441 Oct 07 17:22	บาแน 11° M L39'15	26941!21
evening max el	3440 Oct 25 05:02 3440 Oct 27 08:36	28°M.00'54 0°⊀	25-45-38	evening max el retrograde	3441 Oct 07 17:22 3441 Oct 20 17:23	11°11639°13	20-41-31
retrograde	3440 Nov 06 12:34	0 x · 5° x 703'14		evening set	3441 Oct 20 17.23 3441 Oct 27 07:35	16°ML14'01	
evening set	3440 Nov 12 13:46	2°×732'23		min. Earth dist.	3441 Oct 31 08:39	12°ML06'48	0.65975 AU
evening set	3440 Nov 15 02:32	2 × 32 23 30°RM		inferior conj	3441 Nov 02 03:13	10°ML00'44	
min. Earth dist.	3440 Nov 16 21:50	27°M49'11	0.66977 AU	minimum elong	3441 Nov 02 05:45	9°M53'15	
inferior conj	3440 Nov 18 04:44	26°M11'04		asc. node	3441 Nov 06 15:57	5°M18'49	1 31 00
minimum elong	3440 Nov 18 05:36	26°M08'21	0°32'24	morning rise	3441 Nov 08 04:37	4°ML18'15	
asc. node	3440 Nov 19 18:56	24°M12'20	0 32 24	direct	3441 Nov 11 01:55	3°M31'48	
morning rise	3440 Nov 23 21:46	20°M17'27		morning max el	3441 Nov 17 16:12	7°ML07'17	18°25'08
direct	3440 Nov 27 04:23	19°M15'44		morning max er	3441 Dec 03 13:53	0° × 7	10 25 00
morning max el	3440 Dec 04 03:51	23°M09'00	19°08'04	morning set	3441 Dec 07 09:09	6° ∡ ¹06'53	
morning max or	3440 Dec 09 19:56	0° ⊼	15 00 0 1	desc. node	3441 Dec 14 01:03	16° ∡ 46'27	
morning set	3440 Dec 27 04:03	26° ₹ 09'22		desc. node	3441 Dec 22 09:58	0°ਰ	
desc. node	3440 Dec 27 04:01	26° ₹ ′09'13					
	3440 Dec 29 15:17	0°₹		superior conj	3441 Dec 22 23:02	0° ප 51'17	-0°58'09
max. Earth dist.	3441 Jan 10 07:38	<u> </u>	1.44903 AU	minimum elong	3441 Dec 22 15:49	0° る 22'57	0°57'15
				max. Earth dist.	3441 Dec 24 02:22	2° る 38'33	1.45229 AU
superior conj	3441 Jan 12 20:57	22° る 18'52	-1°38'45	evening rise	3442 Jan 08 01:07	26° පි 06'37	
minimum elong	3441 Jan 12 12:03	21° る 43'39	1°37'56	•	3442 Jan 10 12:19	0° ≈	
-	3441 Jan 17 16:48	0° ≈		greatest brilliancy	3442 Jan 18 04:49	12° ≈ 03'42	-0.8m
evening rise	3441 Jan 27 14:47	16° ≈ 05'42		evening max el	3442 Jan 30 21:46	29° ≈ 33'59	19°09'06
	3441 Feb 05 02:23	0°) €			3 1 12 3 un 30 21.10	29 🗢 33 39	
asc. node					3442 Jan 31 08:08	0° \	
evening max el	3441 Feb 15 18:13	15°) 16′48		asc. node			
-	3441 Feb 15 18:13 3441 Feb 16 12:25	15°) 16'48 16°) 04'50	18°31'00	asc. node retrograde	3442 Jan 31 08:08	0° ∀	
retrograde	3441 Feb 16 12:25 3441 Feb 23 01:23	16°) 04′50 19°) 40′19	18°31'00		3442 Jan 31 08:08 3442 Feb 02 15:14	0° \ 1° \ 57'10	
retrograde evening set	3441 Feb 16 12:25	16°¥04'50 19°¥40'19 18°¥46'31		retrograde	3442 Jan 31 08:08 3442 Feb 02 15:14 3442 Feb 06 21:04	0° 光 1° 光 57'10 3° 光 32'03	
•	3441 Feb 16 12:25 3441 Feb 23 01:23 3441 Feb 26 03:52 3441 Mar 03 23:13	16°¥04'50 19°¥40'19 18°¥46'31 13°¥13'56	3°37'11	retrograde	3442 Jan 31 08:08 3442 Feb 02 15:14 3442 Feb 06 21:04 3442 Feb 10 06:08	0°₩ 1°₩57'10 3°₩32'03 2°₩25'34 30°R≈ 26°≈36'42	3°23'38
evening set	3441 Feb 16 12:25 3441 Feb 23 01:23 3441 Feb 26 03:52	16° ¥ 04'50 19° ¥ 40'19 18° ¥ 46'31 13° ¥ 13'56 13° ¥ 16'04	3°37'11 3°37'10	retrograde evening set inferior conj minimum elong	3442 Jan 31 08:08 3442 Feb 02 15:14 3442 Feb 06 21:04 3442 Feb 10 06:08 3442 Feb 13 00:07	0°¥ 1°¥57'10 3°¥32'03 2°¥25'34 30°R≈	3°23'38 3°23'22
evening set inferior conj minimum elong min. Earth dist.	3441 Feb 16 12:25 3441 Feb 23 01:23 3441 Feb 26 03:52 3441 Mar 03 23:13 3441 Mar 03 22:29 3441 Mar 06 01:37	16°\text{\tiny{\text{\tinx{\text{\ti}\text{\texi{\text{\texi\tinit}\text{\texi\tinit\text{\text{\text{\text{\text{\text{\text{\ti}}}\tint{\text{\text{\text{\text{\text{\text{\tinte\tint{\tiinte\tint{\text{\text{\text{\text{\text{\text{\tint}\text{\text{\tinte\tint	3°37'11	retrograde evening set inferior conj minimum elong min. Earth dist.	3442 Jan 31 08:08 3442 Feb 02 15:14 3442 Feb 06 21:04 3442 Feb 10 06:08 3442 Feb 13 00:07 3442 Feb 15 19:35 3442 Feb 15 17:43 3442 Feb 17 06:40	0°₩ 1°₩57'10 3°₩32'03 2°₩25'34 30°R≈ 26°≈36'42 26°≈42'38 24°≈44'44	3°23'38
evening set inferior conj minimum elong min. Earth dist. morning rise	3441 Feb 16 12:25 3441 Feb 23 01:23 3441 Feb 26 03:52 3441 Mar 03 23:13 3441 Mar 03 22:29 3441 Mar 06 01:37 3441 Mar 09 16:32	16°\ta04'50 19°\ta04'19 18°\ta04'31 13°\ta13'56 13°\ta04'16'04 10°\ta04'510 7°\ta03'58	3°37'11 3°37'10	retrograde evening set inferior conj minimum elong min. Earth dist. morning rise	3442 Jan 31 08:08 3442 Feb 02 15:14 3442 Feb 06 21:04 3442 Feb 10 06:08 3442 Feb 13 00:07 3442 Feb 15 19:35 3442 Feb 15 17:43 3442 Feb 17 06:40 3442 Feb 21 04:59	0°¥ 1°¥57'10 3°¥32'03 2°¥25'34 30°R≈ 26°≈36'42 26°≈42'38 24°≈44'44 20°≈23'38	3°23'38 3°23'22
evening set inferior conj minimum elong min. Earth dist. morning rise direct	3441 Feb 16 12:25 3441 Feb 23 01:23 3441 Feb 26 03:52 3441 Mar 03 22:29 3441 Mar 06 01:37 3441 Mar 09 16:32 3441 Mar 16 11:13	16°\tau4'50 19°\tau40'19 18°\tau46'31 13°\tau13'56 13°\tau16'04 10°\tau45'10 7°\tau03'58 4°\tau14'12	3°37'11 3°37'10	retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct	3442 Jan 31 08:08 3442 Feb 02 15:14 3442 Feb 06 21:04 3442 Feb 10 06:08 3442 Feb 13 00:07 3442 Feb 15 19:35 3442 Feb 15 17:43 3442 Feb 17 06:40 3442 Feb 21 04:59 3442 Feb 27 14:34	0°¥ 1°¥57'10 3°¥32'03 2°¥25'34 30°R≈ 26°≈36'42 26°≈42'38 24°≈44'44 20°≈23'38 17°≈34'33	3°23'38 3°23'22
evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node	3441 Feb 16 12:25 3441 Feb 23 01:23 3441 Feb 26 03:52 3441 Mar 03 22:29 3441 Mar 06 01:37 3441 Mar 09 16:32 3441 Mar 16 11:13 3441 Mar 25 03:11	16° \times 04'50 19° \times 40'19 18° \times 46'31 13° \times 13'56 13° \times 16'04 10° \times 45'10 7° \times 03'58 4° \times 14'12 7° \times 49'04	3°37'11 3°37'10 0.64617 AU	retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node	3442 Jan 31 08:08 3442 Feb 02 15:14 3442 Feb 06 21:04 3442 Feb 10 06:08 3442 Feb 13 00:07 3442 Feb 15 19:35 3442 Feb 15 17:43 3442 Feb 17 06:40 3442 Feb 21 04:59 3442 Feb 27 14:34 3442 Mar 12 00:13	0°¥ 1°¥57'10 3°¥32'03 2°¥25'34 30°8≈ 26°≈36'42 26°≈42'38 24°≈44'44 20°≈23'38 17°≈34'33 24°≈46'11	3°23'38 3°23'22 0.66056 AU
evening set inferior conj minimum elong min. Earth dist. morning rise direct	3441 Feb 16 12:25 3441 Feb 23 01:23 3441 Feb 26 03:52 3441 Mar 03 22:29 3441 Mar 06 01:37 3441 Mar 09 16:32 3441 Mar 16 11:13 3441 Mar 25 03:11 3441 Mar 29 23:36	16° \times 04'50 19° \times 40'19 18° \times 46'31 13° \times 13'56 13° \times 16'04 10° \times 45'10 7° \times 03'58 4° \times 14'12 7° \times 49'04 12° \times 06'36	3°37'11 3°37'10 0.64617 AU	retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct	3442 Jan 31 08:08 3442 Feb 02 15:14 3442 Feb 06 21:04 3442 Feb 10 06:08 3442 Feb 13 00:07 3442 Feb 15 19:35 3442 Feb 15 17:43 3442 Feb 17 06:40 3442 Feb 21 04:59 3442 Feb 27 14:34 3442 Mar 12 00:13 3442 Mar 12 09:34	0°¥ 1°¥57'10 3°¥32'03 2°¥25'34 30°R≈ 26°≈36'42 26°≈42'38 24°≈44'44 20°≈23'38 17°≈34'33 24°≈46'11 25°≈09'33	3°23'38 3°23'22
evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node	3441 Feb 16 12:25 3441 Feb 23 01:23 3441 Feb 26 03:52 3441 Mar 03 22:29 3441 Mar 06 01:37 3441 Mar 09 16:32 3441 Mar 16 11:13 3441 Mar 25 03:11 3441 Mar 29 23:36 3441 Apr 13 06:18	16°\times 04'50 19°\times 40'19 18°\times 46'31 13°\times 13'56 13°\times 16'04 10°\times 45'10 7°\times 03'58 4°\times 14'12 7°\times 49'04 12°\times 06'36 0°\times	3°37'11 3°37'10 0.64617 AU	retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node	3442 Jan 31 08:08 3442 Feb 02 15:14 3442 Feb 06 21:04 3442 Feb 10 06:08 3442 Feb 13 00:07 3442 Feb 15 19:35 3442 Feb 15 17:43 3442 Feb 17 06:40 3442 Feb 21 04:59 3442 Feb 27 14:34 3442 Mar 12 00:13 3442 Mar 12 09:34 3442 Mar 16 19:26	0° ₩ 1° ₩ 57′10 3° ₩ 32′03 2° ₩ 25′34 30° R≈ 26° ≈ 36′42 26° ≈ 42′38 24° ≈ 44′44 20° ≈ 23′38 17° ≈ 34′33 24° ≈ 46′11 25° ≈ 09′33 0° ₩	3°23'38 3°23'22 0.66056 AU
evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el	3441 Feb 16 12:25 3441 Feb 23 01:23 3441 Feb 26 03:52 3441 Mar 03 22:29 3441 Mar 06 01:37 3441 Mar 09 16:32 3441 Mar 16 11:13 3441 Mar 25 03:11 3441 Mar 29 23:36 3441 Apr 13 06:18 3441 May 01 06:50	16°\text{\tinx{\text{\ti}}\text{\tetx{\text{\tetx{\text{\text{\text{\text{\text{\texi}\text{\text{\text{\text{\ti}\text{\text{\text{\text{\text{\text{\texit{\texit{\text{\text{\tert{\texi}\text{\text{\text{\texi{\text{\text{\text{\tet	3°37'11 3°37'10 0.64617 AU	retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el	3442 Jan 31 08:08 3442 Feb 02 15:14 3442 Feb 06 21:04 3442 Feb 10 06:08 3442 Feb 13 00:07 3442 Feb 15 19:35 3442 Feb 15 17:43 3442 Feb 17 06:40 3442 Feb 21 04:59 3442 Feb 27 14:34 3442 Mar 12 00:13 3442 Mar 12 09:34 3442 Mar 16 19:26 3442 Apr 06 17:42	0° \(\) 1° \(\) 57′10 3° \(\) 32′03 2° \(\) 25′34 30° \(\) 26° ≈36′42 26° ≈42′38 24° ≈44′44 20° ≈23′38 17° ≈34′33 24° ≈46′11 25° ≈09′33 0° \(\) 0° \(\)	3°23'38 3°23'22 0.66056 AU
evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el	3441 Feb 16 12:25 3441 Feb 23 01:23 3441 Feb 26 03:52 3441 Mar 03 23:13 3441 Mar 03 22:29 3441 Mar 06 01:37 3441 Mar 09 16:32 3441 Mar 16 11:13 3441 Mar 25 03:11 3441 Mar 29 23:36 3441 Apr 13 06:18 3441 May 01 06:50 3441 May 04 08:13	16°\text{\ti}}\text{\te}\tint{\text{\text{\text{\text{\text{\text{\text{\text{\text{\te}\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\te}\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\te}\tint{\text{\text{\text{\text{\text{\text{\text{\text{\text{\te}\text{\text{\text{\texit{\text{\texitex{\text{\text{\text{\texitiex{\texit{\text{\text{\texi{\texi{\texi{\texit{\texi{\tet	3°37'11 3°37'10 0.64617 AU 27°19'56	retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el	3442 Jan 31 08:08 3442 Feb 02 15:14 3442 Feb 06 21:04 3442 Feb 10 06:08 3442 Feb 13 00:07 3442 Feb 15 19:35 3442 Feb 15 17:43 3442 Feb 17 06:40 3442 Feb 21 04:59 3442 Feb 27 14:34 3442 Mar 12 00:13 3442 Mar 12 09:34 3442 Mar 16 19:26 3442 Apr 06 17:42 3442 Apr 17 11:47	0°₩ 1°₩57'10 3°₩32'03 2°₩25'34 30°R≈ 26°≈36'42 26°≈42'38 24°≈44'44 20°≈23'38 17°≈34'33 24°≈46'11 25°≈09'33 0°₩ 0°Ψ 18°Ψ56'06	3°23'38 3°23'22 0.66056 AU 26°21'31
evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el	3441 Feb 16 12:25 3441 Feb 23 01:23 3441 Feb 26 03:52 3441 Mar 03 22:29 3441 Mar 06 01:37 3441 Mar 09 16:32 3441 Mar 16 11:13 3441 Mar 25 03:11 3441 Mar 29 23:36 3441 Apr 13 06:18 3441 May 01 06:50	16°\text{\ti}}\text{\te}\tint{\text{\text{\text{\text{\text{\text{\text{\text{\text{\te}\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\te}\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\te}\tint{\text{\text{\text{\text{\text{\text{\text{\text{\text{\te}\text{\text{\text{\texit{\text{\texitex{\text{\text{\text{\texitiex{\texit{\text{\text{\texi{\texi{\texi{\texit{\texi{\tet	3°37'11 3°37'10 0.64617 AU	retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el	3442 Jan 31 08:08 3442 Feb 02 15:14 3442 Feb 06 21:04 3442 Feb 10 06:08 3442 Feb 13 00:07 3442 Feb 15 19:35 3442 Feb 15 17:43 3442 Feb 17 06:40 3442 Feb 21 04:59 3442 Feb 27 14:34 3442 Mar 12 00:13 3442 Mar 12 09:34 3442 Mar 16 19:26 3442 Apr 06 17:42 3442 Apr 17 11:47 3442 Apr 21 13:18	0°₩ 1°₩57'10 3°₩32'03 2°₩25'34 30°R≈ 26°≈36'42 26°≈42'38 24°≈44'44 20°≈23'38 17°≈34'33 24°≈46'11 25°≈09'33 0°₩ 0°Ψ 18°Ψ56'06 26°Ψ43'42	3°23'38 3°23'22 0.66056 AU
evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el morning set max. Earth dist.	3441 Feb 16 12:25 3441 Feb 23 01:23 3441 Feb 26 03:52 3441 Mar 03 23:13 3441 Mar 03 22:29 3441 Mar 06 01:37 3441 Mar 09 16:32 3441 Mar 16 11:13 3441 Mar 25 03:11 3441 Mar 29 23:36 3441 Apr 13 06:18 3441 May 01 06:50 3441 May 04 08:13 3441 May 09 01:44	16°\text{\ti}}\text{\te}\tint{\text{\text{\text{\text{\text{\text{\text{\text{\text{\te}\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\te}\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\te}\tint{\text{\text{\text{\text{\text{\text{\text{\text{\text{\te}\text{\text{\text{\text{\texitet{\text{\texit{\text{\text{\texi{\texi{\texi{\texi{\texi{\texi{\texi{\texi{\texi{\texi{\tet	3°37'11 3°37'10 0.64617 AU 27°19'56	retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el	3442 Jan 31 08:08 3442 Feb 02 15:14 3442 Feb 06 21:04 3442 Feb 10 06:08 3442 Feb 13 00:07 3442 Feb 15 19:35 3442 Feb 15 17:43 3442 Feb 17 06:40 3442 Feb 21 04:59 3442 Feb 27 14:34 3442 Mar 12 00:13 3442 Mar 12 09:34 3442 Mar 16 19:26 3442 Apr 06 17:42 3442 Apr 17 11:47	0°₩ 1°₩57'10 3°₩32'03 2°₩25'34 30°R≈ 26°≈36'42 26°≈42'38 24°≈44'44 20°≈23'38 17°≈34'33 24°≈46'11 25°≈09'33 0°₩ 0°Ψ 18°Ψ56'06	3°23'38 3°23'22 0.66056 AU 26°21'31
evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el morning set max. Earth dist. superior conj	3441 Feb 16 12:25 3441 Feb 23 01:23 3441 Feb 26 03:52 3441 Mar 03 23:13 3441 Mar 03 22:29 3441 Mar 06 01:37 3441 Mar 09 16:32 3441 Mar 16 11:13 3441 Mar 25 03:11 3441 Mar 29 23:36 3441 Apr 13 06:18 3441 May 01 06:50 3441 May 04 08:13 3441 May 09 01:44	16°\text{\ti}}\text{\te}\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\te}\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\te}\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\te}\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\texit{\text{\text{\text{\texi{\texi{\texi{\texi{\texi{\texit{\texi{\texi{\texi{\texi{\texi{\texi{\texi{\texi{\texi{\texi{\tet	3°37'11 3°37'10 0.64617 AU 27°19'56 1.33571 AU -0°23'17	retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el morning set max. Earth dist.	3442 Jan 31 08:08 3442 Feb 02 15:14 3442 Feb 06 21:04 3442 Feb 10 06:08 3442 Feb 13 00:07 3442 Feb 15 19:35 3442 Feb 15 17:43 3442 Feb 17 06:40 3442 Feb 21 04:59 3442 Feb 27 14:34 3442 Mar 12 00:13 3442 Mar 12 09:34 3442 Mar 16 19:26 3442 Apr 06 17:42 3442 Apr 17 11:47 3442 Apr 21 13:18 3442 Apr 23 05:00	0°₩ 1°₩57'10 3°₩32'03 2°₩25'34 30°₹≈ 26°≈36'42 26°≈42'38 24°≈44'44 20°≈23'38 17°≈34'33 24°≈46'11 25°≈09'33 0°₩ 0°Ψ 18°Ψ'56'06 26°Ψ'43'42 0°℧	3°23'38 3°23'22 0.66056 AU 26°21'31
evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el morning set max. Earth dist. superior conj minimum elong	3441 Feb 16 12:25 3441 Feb 23 01:23 3441 Feb 26 03:52 3441 Mar 03 23:13 3441 Mar 03 22:29 3441 Mar 06 01:37 3441 Mar 09 16:32 3441 Mar 16 11:13 3441 Mar 25 03:11 3441 Mar 29 23:36 3441 Apr 13 06:18 3441 May 01 06:50 3441 May 04 08:13 3441 May 09 01:44	16°\text{\ti}}\text{\te}\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\te}\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\te}\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\te}\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\texit{\text{\texit{\text{\text{\texi{\texi{\texi{\texi{\text{\texi{\texi{\texi{\text{\texi{\tet	3°37'11 3°37'10 0.64617 AU 27°19'56 1.33571 AU -0°23'17	retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el morning set max. Earth dist.	3442 Jan 31 08:08 3442 Feb 02 15:14 3442 Feb 06 21:04 3442 Feb 10 06:08 3442 Feb 13 00:07 3442 Feb 15 19:35 3442 Feb 15 17:43 3442 Feb 17 06:40 3442 Feb 21 04:59 3442 Feb 27 14:34 3442 Mar 12 00:13 3442 Mar 12 09:34 3442 Apr 16 19:26 3442 Apr 06 17:42 3442 Apr 17 11:47 3442 Apr 21 13:18 3442 Apr 23 05:00	0°¥ 1°¥57'10 3°¥32'03 2°¥25'34 30°R≈ 26°≈36'42 26°≈42'38 24°≈44'44 20°≈23'38 17°≈34'33 24°≈46'11 25°≈09'33 0°¥ 0°Y 18°Y'56'06 26°Y43'42 0°8 6°826'25	3°23'38 3°23'22 0.66056 AU 26°21'31 1.34960 AU -0°52'06
evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el morning set max. Earth dist. superior conj	3441 Feb 16 12:25 3441 Feb 23 01:23 3441 Feb 26 03:52 3441 Mar 03 23:13 3441 Mar 03 22:29 3441 Mar 06 01:37 3441 Mar 09 16:32 3441 Mar 16 11:13 3441 Mar 25 03:11 3441 Mar 29 23:36 3441 Apr 13 06:18 3441 May 01 06:50 3441 May 04 08:13 3441 May 09 01:44 3441 May 12 11:41 3441 May 12 12:52 3441 May 14 17:30	16°\tau4'50 19°\tau40'19 18°\tau40'19 18°\tau40'19 18°\tau40'13'56 13°\tau16'04 10°\tau45'10 7°\tau3'58 4°\tau14'12 7°\tau49'04 12°\tau6'36 0°\tau 0°\tau 5°\tau51'20 15°\tau21'02 22°\tau35'29 27°\tau515'28	3°37'11 3°37'10 0.64617 AU 27°19'56 1.33571 AU -0°23'17	retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el morning set max. Earth dist.	3442 Jan 31 08:08 3442 Feb 02 15:14 3442 Feb 06 21:04 3442 Feb 10 06:08 3442 Feb 13 00:07 3442 Feb 15 19:35 3442 Feb 15 17:43 3442 Feb 17 06:40 3442 Feb 21 04:59 3442 Feb 27 14:34 3442 Mar 12 00:13 3442 Mar 12 09:34 3442 Apr 16 19:26 3442 Apr 17 11:47 3442 Apr 21 13:18 3442 Apr 26 09:24 3442 Apr 26 09:24 3442 Apr 26 12:09	0°₩ 1°₩57'10 3°₩32'03 2°₩25'34 30°№ 26°≈36'42 26°≈42'38 24°≈44'44 20°≈23'38 17°≈34'33 24°≈46'11 25°≈09'33 0°₩ 0°Ψ 18°Ψ56'06 26°Ψ43'42 0°℧	3°23'38 3°23'22 0.66056 AU 26°21'31 1.34960 AU -0°52'06
evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el morning set max. Earth dist. superior conj minimum elong asc. node	3441 Feb 16 12:25 3441 Feb 23 01:23 3441 Feb 26 03:52 3441 Mar 03 23:13 3441 Mar 03 22:29 3441 Mar 06 01:37 3441 Mar 09 16:32 3441 Mar 16 11:13 3441 Mar 25 03:11 3441 Mar 29 23:36 3441 Apr 13 06:18 3441 May 01 06:50 3441 May 04 08:13 3441 May 09 01:44 3441 May 12 11:41 3441 May 12 12:52 3441 May 14 17:30 3441 May 16 00:17	16°\text{\ti}}\text{\te}\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\te}\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\te}\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\te}\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\texit{\text{\texit{\text{\text{\texi{\texi{\texi{\texi{\text{\texi{\texi{\texi{\text{\texi{\tet	3°37'11 3°37'10 0.64617 AU 27°19'56 1.33571 AU -0°23'17	retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el morning set max. Earth dist. superior conj minimum elong asc. node	3442 Jan 31 08:08 3442 Feb 02 15:14 3442 Feb 06 21:04 3442 Feb 10 06:08 3442 Feb 13 00:07 3442 Feb 15 19:35 3442 Feb 15 17:43 3442 Feb 17 06:40 3442 Feb 21 04:59 3442 Feb 27 14:34 3442 Mar 12 00:13 3442 Mar 12 09:34 3442 Mar 16 19:26 3442 Apr 06 17:42 3442 Apr 17 11:47 3442 Apr 21 13:18 3442 Apr 26 09:24 3442 Apr 26 09:24 3442 Apr 26 12:09 3442 May 01 14:32	0° ₩ 1° ₩ 57′10 3° ₩ 32′03 2° ₩ 25′34 30° № 26° ≈ 36′42 26° ≈ 42′38 24° ≈ 44′44 20° ≈ 23′38 17° ≈ 34′33 24° ≈ 46′11 25° ≈ 09′33 0° ₩ 0° Ψ 18° Ψ 56′06 26° Ψ 43′42 0° ℧ 6° ℧ 26′25 6° ℧ 40′29 17° ℧ 15′28	3°23'38 3°23'22 0.66056 AU 26°21'31 1.34960 AU -0°52'06
evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el morning set max. Earth dist. superior conj minimum elong	3441 Feb 16 12:25 3441 Feb 23 01:23 3441 Feb 26 03:52 3441 Mar 03 23:13 3441 Mar 03 22:29 3441 Mar 06 01:37 3441 Mar 09 16:32 3441 Mar 16 11:13 3441 Mar 25 03:11 3441 Mar 29 23:36 3441 Apr 13 06:18 3441 May 01 06:50 3441 May 04 08:13 3441 May 09 01:44 3441 May 12 11:41 3441 May 12 12:52 3441 May 14 17:30	16°\tau4'50 19°\tau40'19 18°\tau40'19 18°\tau40'19 18°\tau40'13'56 13°\tau16'04 10°\tau45'10 7°\tau3'58 4°\tau14'12 7°\tau49'04 12°\tau6'36 0°\tau 0°\tau 5°\tau5'120 15°\tau21'02 22°\tau35'29 27°\tau15'28 0°\tau	3°37'11 3°37'10 0.64617 AU 27°19'56 1.33571 AU -0°23'17	retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el morning set max. Earth dist. superior conj minimum elong	3442 Jan 31 08:08 3442 Feb 02 15:14 3442 Feb 06 21:04 3442 Feb 10 06:08 3442 Feb 13 00:07 3442 Feb 15 19:35 3442 Feb 15 17:43 3442 Feb 17 06:40 3442 Feb 21 04:59 3442 Feb 27 14:34 3442 Mar 12 00:13 3442 Mar 12 09:34 3442 Apr 16 19:26 3442 Apr 17 11:47 3442 Apr 21 13:18 3442 Apr 26 09:24 3442 Apr 26 09:24 3442 Apr 26 12:09	0°₩ 1°₩57'10 3°₩32'03 2°₩25'34 30°№ 26°≈36'42 26°≈42'38 24°≈44'44 20°≈23'38 17°≈34'33 24°≈46'11 25°≈09'33 0°₩ 0°Ψ 18°Ψ56'06 26°Ψ43'42 0°℧	3°23'38 3°23'22 0.66056 AU 26°21'31 1.34960 AU -0°52'06

evening max el	3442 May 22 20:19	22° I I54'47	20042120	evening rise	3443 Apr 18 05:39	6° 8 34'42	
retrograde	3442 Jun 03 04:16	28° I I26'38	20 42 30	asc. node	3443 Apr 18 11:34	7° 8 04'26	
evening set	3442 Jun 05 06:00	28° I I16'16		asc. node	3443 May 01 13:04	0°II	
desc. node	3442 Jun 07 23:24	28 H 10 10 27° H 33'28		evening max el	3443 May 05 09:21	4° ∏ 26′27	10°33'30
inferior conj	3442 Jun 14 12:43	24° I 18'47	-1°55'03	retrograde	3443 May 14 23:19	9° I 105'25	17 33 37
minimum elong	3442 Jun 14 07:20	24° I 1647		evening set	3443 May 16 23:04	8° ∏ 54'17	
min. Earth dist.	3442 Jun 15 13:05	23° I I43'53	0.54916 AU	inferior conj	3443 May 25 15:13	4° I I50'04	0°03'49
morning rise	3442 Jun 23 08:07	20° I 12'39	0.54710710	minimum elong	3443 May 25 15:23	4° ∏ 49'48	0°03'46
direct	3442 Jun 26 23:51	19° I I43'50		transit middle	3443 May 25 15:23	4° Ⅱ 49'48	0°03'46
morning max el	3442 Jul 10 04:31	26° Ⅱ 04'59	23°05'51	transit begin	3443 May 25 11:35	4° ∏ 55'50	0 03 10
morning max ci	3442 Jul 13 21:55	0°95	23 03 31	transit end	3443 May 25 19:11	4° ∏ 43'45	
asc. node	3442 Jul 28 13:48	23° © 09'19		desc. node	3443 May 25 20:26	4° ∏ 41'44	
asc. node	3442 Jul 31 23:12	0°Ω		min. Earth dist.	3443 May 28 03:06	3° Ⅱ 15'11	0.55754 AU
morning set	3442 Aug 02 03:33	2° Ω 28'02		morning rise	3443 Jun 03 05:00	0° П 12'55	0.55754 AO
morning set	3442 Aug 02 03.33	2 062002		morning rise	3443 Jun 03 03:00 3443 Jun 03 21:42	30°R B	
superior conj	3442 Aug 09 05:08	17° Ω 36'03	1°35'49	direct	3443 Jun 07 18:00	29° 8 26'34	
minimum elong	3442 Aug 09 03:18	17° Ω 26'14	1°35'40	direct	3443 Jun 11 13:44	29 O 20 34 0° I	
•	•					6° П 30'06	24949120
max. Earth dist.	3442 Aug 11 22:20	23° Ω 21'45	1.33747 AU	morning max el	3443 Jun 21 18:42	0°©	24°48'20
	3442 Aug 15 03:31	0° Mp		,	3443 Jul 08 18:55		
evening rise	3442 Aug 16 21:32	3° m 30'33		asc. node	3443 Jul 15 10:51	12°5549'04	
	3442 Aug 31 19:17	0° ⊽		morning set	3443 Jul 17 15:21	17°522'46	
desc. node	3442 Sep 03 22:44	4° £ 49'05			3443 Jul 23 11:19	$0^{\circ}\Omega$	
evening max el	3442 Sep 20 05:26	25° ≙ 05'09	27°17'41			_	
	3442 Sep 26 09:59	0°M		superior conj	3443 Jul 24 14:25	2° Ω 28'00	
retrograde	3442 Oct 03 16:35	2°M23'43		minimum elong	3443 Jul 24 12:06	2° Ω 15′25	1°22'44
	3442 Oct 10 07:07	30°Ŗჲ		max. Earth dist.	3443 Jul 26 02:52	5° Ω 46'11	1.32780 AU
evening set	3442 Oct 10 16:43	29° ≏ 41'58		evening rise	3443 Jul 31 19:34	17° Ω 48'20	
min. Earth dist.	3442 Oct 14 11:38	26° ≏ 09'50	0.64621 AU		3443 Aug 07 01:20	O° My	
inferior conj	3442 Oct 16 18:26	23° ≏ 41'22	-2°32'45	desc. node	3443 Aug 21 19:45	24° Mp 04'03	
minimum elong	3442 Oct 16 22:40	23° ≙ 29'53	2°31'11		3443 Aug 26 07:16	0∘ ত	
morning rise	3442 Oct 23 05:43	18° ≙ 12'58		evening max el	3443 Sep 02 15:41	8° ≏ 06'57	27°25'36
asc. node	3442 Oct 24 13:01	17° ≏ 46'40		retrograde	3443 Sep 16 09:21	15° ≏ 23'01	
direct	3442 Oct 25 20:06	17° ≏ 37'52		evening set	3443 Sep 23 14:01	12° ♀ 50'33	
morning max el	3442 Nov 01 08:01	21° ≏ 04'45	17°59'00	min. Earth dist.	3443 Sep 27 04:57	9° ≏ 49'10	0.62938 AU
	3442 Nov 08 03:46	0°M		inferior conj	3443 Sep 29 23:41	7° ჲ 07'03	-3°31'28
morning set	3442 Nov 18 19:21	17°M30'06		minimum elong	3443 Sep 30 05:12	6° £ 53'35	3°29'47
	3442 Nov 26 07:30	0°⊀		morning rise	3443 Oct 06 21:52	1° £ 55'59	
desc. node	3442 Nov 30 22:03	7° ∡ °30′08		direct	3443 Oct 09 08:05	1° ≏ 28'38	
				asc. node	3443 Oct 11 10:04	1° ≏ 49'19	
superior conj	3442 Dec 02 10:04	9° ₹ 155'02	-0°10'16	morning max el	3443 Oct 16 00:26	4° £ 55'00	17°50'32
minimum elong	3442 Dec 02 08:50	9° ∡ ¹50'04	0°10'06	morning set	3443 Nov 01 05:34	0°M03'06	
behind sun begin	3442 Dec 02 00:35	9° ∡ 16'58		· ·	3443 Nov 01 04:52	0°M	
behind sun end	3442 Dec 02 17:04	10° ≯ 23'07					
max. Earth dist.	3442 Dec 06 21:02	17° ∡ 700'46	1.44820 AU	superior conj	3443 Nov 12 21:07	20°M10'36	0°33'35
	3442 Dec 15 04:21	0°₹		minimum elong	3443 Nov 13 00:18	20°M23'52	0°33'09
evening rise	3442 Dec 18 16:27	5° ਰ 24'47		desc. node	3443 Nov 17 19:05	28°M17'21	
greatest brilliancy	3443 Jan 02 01:37	27° ප 13'40	-0.6m		3443 Nov 18 20:23	0° ∡ 7	
<i>B </i>	3443 Jan 03 23:12	0° ≈	******	max. Earth dist.	3443 Nov 19 13:31	1° × ⁷ 09'07	1.43732 AU
evening max el	3443 Jan 14 02:34	13° ≈ 05'01	20°03'06	evening rise	3443 Nov 28 01:48	14° ∡ ³34'46	
asc. node	3443 Jan 20 12:17	17°≈25'24	20 03 00	evening rise	3443 Dec 08 05:57	0° ਰ	
retrograde	3443 Jan 21 18:54	17°≈34'17		evening max el	3443 Dec 28 01:59	26° පි 37'31	21°10'08
evening set	3443 Jan 25 11:59	16°≈13'56		evening max or	3443 Dec 31 23:31	0°≈	21 1000
inferior conj	3443 Jan 30 21:57	10°≈11'18	2°58'27	retrograde	3444 Jan 05 16:40	1°≈43'46	
minimum elong	3443 Jan 30 19:31	10 ≈11 18 10°≈19'28	2°57'53	asc. node	3444 Jan 07 09:20	1°≈28'01	
min. Earth dist.	3443 Jan 31 19:00	9°≈00'35	0.67086 AU	evening set	3444 Jan 09 19:31	0°≈08'14	
morning rise	3443 Feb 05 02:50	3°≈57'32	0.07080 AU	evening set	3444 Jan 09 23:39	0 ≈08 14 30°Rる	
direct				inforior aoni	3444 Jan 15 03:59	30 KG 23° ප 54'41	2°24'03
	3443 Feb 10 23:39	1°≈20'13 8°≈22'30	25°03'13	inferior conj minimum elong	3444 Jan 15 03:39 3444 Jan 15 01:29	23° る 3441 24° る 03'16	2°23'16
morning max el	3443 Feb 22 18:18		45 05 15	Č			
desc. node	3443 Feb 26 21:16	12°≈53'33		min. Earth dist.	3444 Jan 15 12:24	23°る25'36	0.67713 AU
	3443 Mar 11 17:40	0° ∀		morning rise	3444 Jan 20 07:17	17° る 41'57	
	3443 Mar 30 07:18	0° Υ		direct	3444 Jan 25 13:31	15° る 23'52	00005110
morning set	3443 Mar 30 22:19	1° Υ 06'55	1 2/701 433	morning max el	3444 Feb 05 02:53	21° る 40'56	23°35'19
max. Earth dist.	3443 Apr 03 13:42	7° Ƴ 44'47	1.36781 AU	1 1	3444 Feb 12 07:46	0° ≈	
	2442 4 22 23 23 2	10000	1000100	desc. node	3444 Feb 13 18:19	1°≈51'09	
superior conj	3443 Apr 09 21:32	19° Y 50'55			3444 Mar 04 00:47	0°) (°512.4	
minimum elong	3443 Apr 10 01:37	20° Y 11′03	1°19′22	morning set	3444 Mar 11 09:44	12°) (07'24	1.00000 :==
	3443 Apr 14 23:27	0° 8		max. Earth dist.	3444 Mar 15 08:49	18° ¥ 57'58	1.38898 AU

	3444 Mar 21 11:26	0° Υ		superior conj	3445 Mar 05 00:54	14° 米 21'11 14° 米 35'45	
superior conj	3444 Mar 22 20:17	2° Y 33'06	10/1/123	minimum elong	3445 Mar 05 04:11 3445 Mar 13 14:37	14°π35°45 0°Υ	2-01-26
minimum elong	3444 Mar 23 00:53	2° Υ 54'42		evening rise	3445 Mar 15 10:30	3°Υ24'26	
evening rise	3444 Apr 01 01:34	20°Υ17'18	1 43 34	asc. node	3445 Mar 22 05:40	15° Υ 49'08	
asc. node	3444 Apr 04 08:37	26° Y 37'36		evening max el	3445 Mar 31 16:27		18°16'02
use. Houe	3444 Apr 06 03:53	0°8		ovening man er	3445 Apr 01 09:45	0°8	10 10 02
evening max el	3444 Apr 17 09:08	16° 8 37'23	18°44'45	retrograde	3445 Apr 07 18:35	2° 8 52'16	
retrograde	3444 Apr 25 11:22	20° 8 34'56		evening set	3445 Apr 10 06:02	2° 8 27'11	
evening set	3444 Apr 27 16:28	20° 8 18'18			3445 Apr 14 14:12	30° ₹ Υ	
inferior conj	3444 May 05 12:47	15° 8 56'35	1°42'49	inferior conj	3445 Apr 17 07:51	27° Y '44'49	2°49'31
minimum elong	3444 May 05 16:12	15° 8 50'16	1°41'44	minimum elong	3445 Apr 17 11:22	27° Y '37'11	2°48'44
min. Earth dist.	3444 May 08 19:52	13° 8 31'18	0.57368 AU	min. Earth dist.	3445 Apr 20 17:47	24° Y '48'42	0.59429 AU
desc. node	3444 May 11 17:30	11° 8 39'36		morning rise	3445 Apr 24 14:06	22° Y 05'08	
morning rise	3444 May 13 12:46	10° 8 44'48		desc. node	3445 Apr 28 14:32	20° Y 29'20	
direct	3444 May 19 01:51	9° 8 29'27		direct	3445 Apr 30 22:45	20° Y 14'19	
morning max el	3444 Jun 02 10:14	_	26°18'43	morning max el	3445 May 15 07:28	28° Y ′02'46	27°22'22
	3444 Jun 13 02:26	$\Pi^{\circ}0$			3445 May 17 05:05	0°8	
	3444 Jun 30 00:45	0°€			3445 Jun 06 18:40	Π °0	
morning set	3444 Jul 01 02:16	2° © 13'41		morning set	3445 Jun 15 10:39	16° ∏ 55'30	
asc. node	3444 Jul 01 07:53	2° © 43'17		asc. node	3445 Jun 18 04:56	22° ∏ 46'57	
	2444 7 1 00 01 40	15000 4100	1005141	P. 4. F.	3445 Jun 21 12:25	0.ee	1 220 (0 17)
superior conj	3444 Jul 08 01:49	17°524'03	1°05'41	max. Earth dist.	3445 Jun 22 01:01	1° 5 09'20	1.32069 AU
minimum elong	3444 Jul 07 23:31	17°5511'26	1°05'18		2445 1 22 12 24	2061.0120	0044120
max. Earth dist.	3444 Jul 08 13:00	18°925'40	1.32226 AU	superior conj	3445 Jun 22 13:34	2°5018'28	0°44'29
avanina riaa	3444 Jul 13 20:57 3444 Jul 15 00:24	0°Ω 2°Ω24'36		minimum elong	3445 Jun 22 11:45 3445 Jun 29 09:34	2° © 08'29 17° © 11'40	0°44'07
evening rise	3444 Jul 13 00:24 3444 Jul 29 22:41	2 3 2 2 4 3 0		evening rise	3445 Jul 29 09.34 3445 Jul 05 17:41	17 3 11 40 0°Ω	
desc. node	3444 Aug 07 16:47	راتا 0 12° m ر)30'41		desc. node	3445 Jul 25 13:48	29° Ω 49'02	
evening max el	3444 Aug 14 21:15	20° m 30'00	27°00'48	desc. node	3445 Jul 25 17:56	0°m)	
retrograde	3444 Aug 28 18:34	27° m/42'03	27 00 40	evening max el	3445 Jul 27 19:39	2° m)05'01	26°03'11
evening set	3444 Sep 04 19:13	25° mp 31'18		retrograde	3445 Aug 10 19:04	9° mp 13'58	20 03 11
min. Earth dist.	3444 Sep 08 11:31	-	0.60989 AU	evening set	3445 Aug 17 03:30	7° mp 36'31	
inferior conj	3444 Sep 11 15:37	20° m 08'13		min. Earth dist.	3445 Aug 21 08:11	5° m 00'46	0.58923 AU
minimum elong	3444 Sep 11 21:13	19° m 56'11	4°21'53	inferior conj	3445 Aug 24 14:38	2° m/35'06	-4°58'50
morning rise	3444 Sep 19 01:01	15° Mp 18'00		minimum elong	3445 Aug 24 17:58	2°m/28'53	4°58'30
direct	3444 Sep 21 10:02	14° m 55'24			3445 Aug 28 07:52	30° R Ω	
asc. node	3444 Sep 27 07:08	17° m) 19'52		morning rise	3445 Sep 01 10:38	28° Q 08'03	
morning max el	3444 Sep 28 14:15	18° m 29'21	18°00'50	direct	3445 Sep 03 21:24	27° Ω 48′00	
	3444 Oct 06 21:59	0∘ ⊽			3445 Sep 09 23:06	0° ™	
morning set	3444 Oct 14 09:19	13° ≏ 25'49		morning max el	3445 Sep 11 22:15	1° m 39'14	18°31'12
	3444 Oct 23 11:19	0°M₊		asc. node	3445 Sep 14 04:10	4° Mp 04′24	
				morning set	3445 Sep 28 01:23	27° m/23'25	
superior conj	3444 Oct 24 10:49	1°M44'03	1°07'14		3445 Sep 29 09:49	0∘ ⊽	
minimum elong	3444 Oct 24 15:05	2°M02'52	1°06'43		2445.0 . 06.22.50	1.40.0.00100	1000100
max. Earth dist.	3444 Nov 01 01:35	14°M46'49 19°M04'14	1.42090 AU	superior conj	3445 Oct 06 22:58	14° Ω 23'23	1°29'29
desc. node evening rise	3444 Nov 03 16:06 3444 Nov 06 21:27	24°M15'59		minimum elong max. Earth dist.	3445 Oct 07 02:15 3445 Oct 14 08:13	14° £ 38'37 27° £ 40'55	1°29'11 1.40097 AU
evening rise	3444 Nov 10 12:50	24 IIC13 39 0° √		max. Earth dist.	3445 Oct 15 16:25	27 = 40 33	1.40097 AU
	3444 Dec 01 05:58	0°ਤ		evening rise	3445 Oct 18 14:13	4°M55'20	
evening max el	3444 Dec 09 20:06	0 ර 10° ට 11'21	22°26'14	desc. node	3445 Oct 21 13:07	9°M47'20	
retrograde	3444 Dec 19 12:41	15° ප 57'01	22 2011	desc. node	3445 Nov 03 17:16	0° √	
evening set	3444 Dec 24 03:02	14° る 05'16		evening max el	3445 Nov 22 10:15	23° ∡ '47'52	23°46'08
asc. node	3444 Dec 24 06:23	13° る 58'18		S	3445 Dec 01 16:11	ರ°0	
inferior conj	3444 Dec 29 11:36	7° ප් 44'06	1°42'02	retrograde	3445 Dec 03 05:40	0° る 10'25	
minimum elong	3444 Dec 29 09:32	7° る 51'17	1°41'16		3445 Dec 04 17:47	30°R. ✓	
min. Earth dist.	3444 Dec 29 08:34	7° る 54'40	0.67958 AU	evening set	3445 Dec 08 08:57	28° ₹ 02'18	
morning rise	3445 Jan 03 15:54	1° る 34'06		asc. node	3445 Dec 11 03:25	25° х 07′25	
	3445 Jan 06 06:38	30°R. ✓		min. Earth dist.	3445 Dec 13 05:10	22° х 24′36	0.67844 AU
direct	3445 Jan 08 07:15	29° ∡ ³38'40		inferior conj	3445 Dec 13 19:01	21° ₹ 37'23	0°53'39
	3445 Jan 10 10:20	0°ಕ		minimum elong	3445 Dec 13 17:47	21° х ⁴41'35	0°53'09
morning max el	3445 Jan 17 14:33	5° る 06'36	22°07'34	morning rise	3445 Dec 19 02:37	15° ∡ 31'52	
desc. node	3445 Jan 30 15:22	21° る 24'42		direct	3445 Dec 23 03:54	13° 🗷 59'15	20045126
	3445 Feb 05 14:29	0°≈		morning max el	3445 Dec 31 08:36	18° ∡ 742'48	20°47'28
morning set	3445 Feb 19 16:50	21°≈45'46		done == 1	3446 Jan 09 13:24	0°る 11° そ 24'05	
may Earth dist	3445 Feb 24 17:09	0° ¥ 0° ¥ 56:12	1.41053 AU	desc. node	3446 Jan 17 12:24	11°る24'05 0°≈12'58	
max. Earth dist.	3445 Feb 25 06:34	о дзб12	1.41033 AU	morning set	3446 Jan 29 21:40	U ≈ 12/38	

max. Earth dist.	3446 Jan 29 18:20 3446 Feb 07 11:04	0°≈ 13°≈48'50	1.42962 AU	greatest brilliancy	3446 Dec 27 14:10 3447 Jan 03 06:38	19° メ 54'08 0°る	-0.7m
max. Lattii dist.	3440160 07 11.04	13 ~40 30	1.42)02 AO	desc. node	3447 Jan 04 09:25	1° る 42'25	
superior conj	3446 Feb 14 06:15	25°≈03'06	-2°06'44	morning set	3447 Jan 08 18:03	8° る 24'50	
minimum elong	3446 Feb 14 05:21	24°≈59'22		max. Earth dist.	3447 Jan 20 22:44		1.44379 AU
g	3446 Feb 17 04:08	0° ∀	2 00	man. Barar alov.	3447 Jan 22 12:44	0°≈	1.1.157,7110
evening rise	3446 Feb 26 04:20	15°) 46′26					
<i>y</i>	3446 Mar 06 07:30	$0^{\circ}\Upsilon$		superior conj	3447 Jan 25 09:40	4° ≈ 36'08	-1°54'39
asc. node	3446 Mar 09 02:43	4° Ƴ 31'15		minimum elong	3447 Jan 25 02:56	4° ≈ 09'01	1°54'13
evening max el	3446 Mar 15 03:56	12° Ƴ 23'29	18°06'59	evening rise	3447 Feb 08 02:46	27°≈15'50	
retrograde	3446 Mar 21 17:21	15° Ƴ 46'39			3447 Feb 09 17:36	0°)	
evening set	3446 Mar 24 10:42	15° Ƴ 11′20		asc. node	3447 Feb 23 23:44	22°) ₹35′25	
inferior conj	3446 Mar 30 21:43	10° Ƴ 08'38	3°25'55	evening max el	3447 Feb 26 16:38	25°) 42′05	18°16'58
minimum elong	3446 Mar 30 23:42	10° Ƴ 03'41	3°25'42	retrograde	3447 Mar 05 03:16	29°) €09'23	
min. Earth dist.	3446 Apr 02 23:17	7° Y 06'20	0.61600 AU	evening set	3447 Mar 08 02:18	28° ∺ 22'39	
morning rise	3446 Apr 06 10:59	4° Ƴ 11'18		inferior conj	3447 Mar 14 02:24	23°) €00'44	3°38'24
direct	3446 Apr 13 06:38	1° Ƴ 47'59		minimum elong	3447 Mar 14 02:34	23° ₭ 00'15	3°38'24
desc. node	3446 Apr 15 11:35	2° Y 01′58		min. Earth dist.	3447 Mar 16 13:55	20°) 14′49	0.63613 AU
morning max el	3446 Apr 27 10:58	9° Ƴ 45'25	27°50'16	morning rise	3447 Mar 20 01:55	16° ¥ 53'57	
	3446 May 13 03:34	0°8		direct	3447 Mar 26 23:23	14° ∺ 09'25	
	3446 May 29 22:38	$\Pi^{\circ}0$		desc. node	3447 Apr 02 08:37	16° ∺ 07'11	
morning set	3446 May 30 14:29	1° Ⅱ 20'46		morning max el	3447 Apr 09 18:53	22°) €06'48	27°40'42
asc. node	3446 Jun 05 01:58	12° ∏ 54'39			3447 Apr 16 17:01	0° Υ	
max. Earth dist.	3446 Jun 05 10:51	13° Ⅱ 42'47	1.32310 AU		3447 May 06 07:52	0°8	
				morning set	3447 May 14 11:27	15° 8 22'07	
superior conj	3446 Jun 06 23:54	17° Ⅱ 04'32	0°20'01	max. Earth dist.	3447 May 19 14:30	25° 8 53'18	1.32979 AU
minimum elong	3446 Jun 06 22:59	16° Ⅱ 59'33	0°19'49		3447 May 21 13:00	Π $^{\circ}0$	
	3446 Jun 12 22:10	0.20 10.20			2447.) (22 07 02	10 T 26120	0006150
evening rise	3446 Jun 13 20:56	2° © 01'38		superior conj	3447 May 22 07:02	1° Ⅱ 36'38	
	3446 Jun 29 01:04	0° N	24020142	minimum elong	3447 May 22 07:23	1° ∏ 38′29	0°06'55
evening max el desc. node	3446 Jul 09 11:05	12° Ω 55'01 15° Ω 31'26	24°39'42	behind sun begin behind sun end	3447 May 22 02:33	1° Ⅱ 12'34 2° Ⅱ 04'25	
	3446 Jul 12 10:48 3446 Jul 23 09:07	$19^{\circ} \Omega 57'22$		asc. node	3447 May 22 12:13 3447 May 22 23:00	2°П0423 3°П02'27	
retrograde evening set	3446 Jul 28 11:43	$19^{\circ} 05722$ $18^{\circ} \Omega 58'30$		evening rise	3447 May 29 08:39	16° ∏ 48'30	
min. Earth dist.	3446 Aug 02 22:16	16° Ω 08'34	0.56989 AU	evening rise	3447 Jun 04 21:45	10 Д 46 30	
inferior conj	3446 Aug 05 17:54	14° Ω 19'08		evening max el	3447 Jun 21 00:25	23° 9 21'24	23°03'39
minimum elong	3446 Aug 05 16:07	14°Ω22'02		desc. node	3447 Jun 29 07:50	29° © 03'27	23 0337
morning rise	3446 Aug 13 23:08	10° Ω 13'39	3 03 17	dese. Hode	3447 Jul 03 06:57	0°Ω	
direct	3446 Aug 16 14:09	9° £ 54'31		retrograde	3447 Jul 04 10:27	0° Ω 02'59	
morning max el	3446 Aug 25 21:16	14°Ω15'07	19°22'51	8	3447 Jul 05 14:08	30° ₹ 5	
asc. node	3446 Sep 01 01:12	21° Ω 47'52		evening set	3447 Jul 08 00:34	29° © 34'48	
	3446 Sep 05 23:27	O° Mp		min. Earth dist.	3447 Jul 15 09:36	26° © 16'19	0.55532 AU
morning set	3446 Sep 12 02:00	11° Mp 45'36		inferior conj	3447 Jul 17 01:41	25°518'06	-4°27'45
				minimum elong	3447 Jul 16 18:28	25°528'37	4°26'22
superior conj	3446 Sep 20 04:01	27° m 52'41	1°41'26	morning rise	3447 Jul 25 14:43	21° 5 25'47	
minimum elong	3446 Sep 20 05:35	28° Mp 00'21	1°41'21	direct	3447 Jul 28 12:13	21° © 05'50	
	3446 Sep 21 06:12	0∘ ত		morning max el	3447 Aug 08 08:53	26° © 08'16	20°35'56
max. Earth dist.	3446 Sep 26 12:08	9° ≙ 53'58	1.38016 AU		3447 Aug 11 23:09	0 $^{\circ}$ Ω	
evening rise	3446 Sep 30 06:28	16° ≏ 39'49		asc. node	3447 Aug 18 22:14	10° Ω 16'48	
desc. node	3446 Oct 08 10:08	0°M22'43		morning set	3447 Aug 27 08:21	26° Ω 24'36	
	3446 Oct 08 04:29	0°M₊			3447 Aug 29 02:07	0° ™	
	3446 Oct 29 04:58	0°⊀					
evening max el	3446 Nov 04 22:38	7° ∡ 128'18	25°03'24	superior conj	3447 Sep 03 21:11	11° m 57'53	1°44'41
retrograde	3446 Nov 16 18:35	14° ₹ 19'46		minimum elong	3447 Sep 03 21:06	11° m 57'29	1°44'42
evening set	3446 Nov 22 11:39	11° 🗷 56'30		max. Earth dist.	3447 Sep 08 19:17	21° m/46'34	1.36094 AU
min. Earth dist.	3446 Nov 26 23:55	6° ₹ 52'51	0.67385 AU	evening rise	3447 Sep 12 19:16	29° Th 22'02	
inferior conj	3446 Nov 28 00:28	5° ₹32'22	0°00'02	J 1	3447 Sep 13 03:29	0° 亞	
minimum elong	3446 Nov 28 00:28	5° 🖈 32'22	0°00'03	desc. node	3447 Sep 25 07:07	20° Ω 45'14	
transit middle	3446 Nov 28 00:28	5° 🗷 32'22	0°00'03	avanina ma1	3447 Oct 01 09:40	0°M	26010125
transit begin transit end	3446 Nov 27 21:42	5° ⊀ 41'28 5° ≮ 23'17		evening max el	3447 Oct 18 10:59	21°M09'48 28°M18'53	20 10 33
asc. node	3446 Nov 28 03:14 3446 Nov 28 00:26	5°×'23'17' 5°×'32'29		retrograde evening set	3447 Oct 31 02:29 3447 Nov 06 09:17	28°IL18'53 25°IL43'38	
asc. nouc	3446 Nov 28 00.26 3446 Dec 02 23:03	3 x ·32 29 30°RM		min. Earth dist.	3447 Nov 10 14:23	23 IIL43 38 21°M15'23	0.66589 AU
morning rise	3446 Dec 02 23:03 3446 Dec 03 13:29	29°M33'29		inferior conj	3447 Nov 10 14.23 3447 Nov 12 02:05	19°M25'02	
direct	3446 Dec 07 02:18	28°M21'27		minimum elong	3447 Nov 12 02:03 3447 Nov 12 03:37	19°M20'15	0°57'00
	3446 Dec 11 12:31	0° √		asc. node	3447 Nov 14 21:28	16°ML08'04	/ 00
morning max el	3446 Dec 14 10:31	2° ≯ 30'18	19°40'01	morning rise	3447 Nov 17 22:26	13°M35'29	
<i>5</i>				5	. •	- 1	

direct	3447 Nov 21 00:48	12° M ₊40'42		morning rise	3448 Nov 01 03:14	27° £ 34'43	
morning max el	3447 Nov 27 19:32	16°M25'24	18°47'44	direct	3448 Nov 03 21:24	26° ≏ 53'24	
	3447 Dec 08 00:54	0°⋪			3448 Nov 09 23:52	0° M	
morning set	3447 Dec 19 06:55	17° ∡ ³32′22		morning max el	3448 Nov 10 09:40	0°M23'55	18°11'51
desc. node	3447 Dec 22 06:25	22° ҂ 13'38		morning set	3448 Nov 29 00:46	28°M07'55	
	3447 Dec 27 05:10	9°5			3448 Nov 30 04:11	0° ∡ ¹	
max. Earth dist.	3448 Jan 03 15:45	11°る40'30	1.45136 AU	desc. node	3448 Dec 08 03:26	12° ∡ 753'52	
superior conj	3448 Jan 04 16:20	13° る 17'03	-1°23'12	superior conj	3448 Dec 13 19:36	21° х 55'11	-0°37'58
minimum elong	3448 Jan 04 07:16	12° る 41'27		minimum elong	3448 Dec 13 14:46	21° х 36'09	
minimum clong	3448 Jan 15 05:45	0°≈	1 22 17	max. Earth dist.	3448 Dec 16 11:19		1.45154 AU
				max. Earth dist.		20 メ ・00 13	1.43134 AU
evening rise	3448 Jan 20 02:18	7°≈47'29			3448 Dec 18 22:55		
	3448 Feb 03 02:19	0° ∺		evening rise	3448 Dec 30 03:31	17° る 27'20	
evening max el	3448 Feb 10 03:54	9° ₩ 08'43	18°45'11		3449 Jan 07 05:34	0° ≈	
asc. node	3448 Feb 10 20:46	9° ∺ 50'03		greatest brilliancy	3449 Jan 11 08:04	6°≈16'40	-0.7m
retrograde	3448 Feb 16 20:16	12° 升 52′12		evening max el	3449 Jan 23 11:33	22° ≈ 38'51	19°30'18
evening set	3448 Feb 20 01:29	11° ∺ 53′05		asc. node	3449 Jan 27 17:49	26° ≈ 01'25	
inferior conj	3448 Feb 25 18:00	6°) 13′30	3°33'01	retrograde	3449 Jan 30 17:09	26° ≈ 48'53	
minimum elong	3448 Feb 25 16:43	6° ℋ 17'24	3°32'54	evening set	3449 Feb 03 05:33	25°≈36'27	
min. Earth dist.	3448 Feb 27 13:50	3° ¥ 59'28	0.65288 AU	inferior conj	3449 Feb 08 17:14	19° ≈ 41'17	3°14'11
morning rise	3448 Mar 02 07:32	0°) €02'06		minimum elong	3449 Feb 08 15:04	19° ≈ 48'23	3°13'46
morning rise	3448 Mar 02 08:31	30°R≈		min. Earth dist.	3449 Feb 09 22:05	18°≈06'57	0.66551 AU
Ji							0.00331 AU
direct	3448 Mar 08 23:07	27°≈10′53		morning rise	3449 Feb 14 00:22	13°≈27'55	
	3448 Mar 16 10:30	0° ∀		direct	3449 Feb 20 04:51	10°≈42'56	
desc. node	3448 Mar 19 05:39	2° ₩ 10'49		morning max el	3449 Mar 04 14:04	18° ≈ 04'57	25°50'01
morning max el	3448 Mar 22 04:35	4° ¥ 57'05	26°58'01	desc. node	3449 Mar 06 02:40	19° ≈ 40'24	
	3448 Apr 10 06:51	0 ° $\mathbf{\gamma}$			3449 Mar 14 14:50	0° ℋ	
morning set	3448 Apr 26 22:29	28° Ƴ 50'32			3449 Apr 03 06:57	0 ° $\mathbf{\Upsilon}$	
	3448 Apr 27 12:54	$_{0\circ}$ 8		morning set	3449 Apr 09 19:27	11° Y 33'41	
max. Earth dist.	3448 May 01 08:37	7° 8 33'31	1.34106 AU	max. Earth dist.	3449 Apr 13 15:26	18° Ƴ 45'28	1.35692 AU
	•				•		
superior conj	3448 May 05 08:56	15° 8 48'44	-0°35'30	superior conj	3449 Apr 19 02:59	29° Ƴ 32'54	-1°04'11
minimum elong	3448 May 05 10:47	15° 8 58'23	0°35'07	minimum elong	3449 Apr 19 06:21	29° Ƴ 49'54	1°03'35
asc. node	3448 May 08 20:03	23° 8 06'32			3449 Apr 19 08:21	0°8	
asc. node	3448 May 12 02:21	0°II		asc. node	3449 Apr 25 17:06	13° 8 02'19	
ovanina rias	•					_	
evening rise	3448 May 12 18:54	1° Ⅱ 26'35		evening rise	3449 Apr 27 01:36	15° 8 48'53	
	3448 May 29 05:55	0°©			3449 May 04 08:56	0°II	
evening max el	3448 Jun 01 19:19		21°30'18	evening max el	3449 May 15 01:14	15° Ⅱ 03'35	20°10'46
retrograde	3448 Jun 14 01:01	9° 9 57'20		retrograde	3449 May 25 15:02	20° Ⅱ 12'30	
desc. node	3448 Jun 15 04:51	9° © 54'13		evening set	3449 May 27 14:36	20° Ⅱ 02'25	
evening set	3448 Jun 16 11:17	9° 5 43'56		desc. node	3449 Jun 02 01:54	18° Ⅲ 05'11	
inferior conj	3448 Jun 25 20:40	5°5643'46	-3°00'55	inferior conj	3449 Jun 05 16:15	16° Ⅱ 03'28	-1°03'44
minimum elong	3448 Jun 25 12:52	5° © 54'40	2°58'27	minimum elong	3449 Jun 05 13:16	16° Ⅱ 07'54	1°02'38
min. Earth dist.	3448 Jun 25 20:41	5° © 43'45	0.54867 AU	min. Earth dist.	3449 Jun 07 09:08	15° Ⅱ 02'54	0.55161 AU
morning rise	3448 Jul 04 15:19	1°548'50		morning rise	3449 Jun 14 10:27	11° Ⅱ 45'56	
direct	3448 Jul 07 22:51	1° © 24'57		direct	3449 Jun 18 10:26	11° I I1'15	
morning max el	3448 Jul 20 09:03	7°916'56	22°07'40	morning max el	3449 Jul 02 01:15	17° Ⅲ 51'16	23°50'03
asc. node	3448 Aug 04 19:17	29°520'13	*,		3449 Jul 11 23:31	0°9	
200. 11000	3448 Aug 05 03:42	0°Ω		asc. node	3449 Jul 22 16:20	18° © 48'30	
	-	11° Ω 14'33					
morning set	3448 Aug 10 18:16	11-8614-33		morning set	3449 Jul 26 05:52	26°508'49	
gunarian aga:	2449 Aug 17 22:49	26° Ω 28'25	1040140		3449 Jul 28 01:17	$0^{\circ}\Omega$	
superior conj	3448 Aug 17 22:48				24424 02 05 55	110014110	1021100
minimum elong	3448 Aug 17 21:28	26° Ω 21′23	1°40'44	superior conj	3449 Aug 02 05:57	11° Ω 14'18	
	3448 Aug 19 15:11	0° m ∕		minimum elong	3449 Aug 02 03:51	11° Ω 02'58	
max. Earth dist.	3448 Aug 21 10:31	3° Mp 43'43	1.34492 AU	max. Earth dist.	3449 Aug 04 10:39	15° Ω 57'07	1.33284 AU
evening rise	3448 Aug 26 00:11	12° m 50'32		evening rise	3449 Aug 09 16:58	26° Ω 52'36	
	3448 Sep 04 11:00	0∘ 亚			3449 Aug 11 06:38	0° ™	
desc. node	3448 Sep 11 04:09	10° ≙ 48'55			3449 Aug 28 18:27	0∘ ত	
	3448 Sep 25 10:57	0° M .		desc. node	3449 Aug 29 01:12	0° £ 24'37	
evening max el	3448 Sep 29 23:38	4°M45'17	27°00'00	evening max el	3449 Sep 12 11:09	18° ≏ 01'57	27°24'45
retrograde	3448 Oct 13 04:48	12°ML01'48		retrograde	3449 Sep 26 01:08	25° ≏ 19'30	
evening set	3448 Oct 19 23:44	9°M20'04		evening set	3449 Oct 03 04:16	22° £ 40'03	
min. Earth dist.	3448 Oct 23 22:10		0.65448 AU	min. Earth dist.	3449 Oct 06 21:03		0.63949 AU
inferior conj	3448 Oct 25 21:48	3°MJ11'49		inferior conj	3449 Oct 09 09:07	19 = 22 00 16° £ 46'32	
minimum elong	3448 Oct 26 01:04	3°M02'29	1 5051	minimum elong	3449 Oct 09 14:00	16° £ 33'54	2 30 20
	3448 Oct 28 21:11	30°R ≏		morning rise	3449 Oct 16 00:59	11° £ 25'17	
asc. node	3448 Oct 31 18:30	27° ≏ 46'11		direct	3449 Oct 18 13:20	10° £ 53'50	

asc. node	3449 Oct 18 15:32	10° £ 53'52		inferior conj	3450 Sep 22 09:04	0° ჲ 02'02	305/1/13
morning max el	3449 Oct 25 02:08	10 = 33 32 14° £ 19'07	17053'14	minimum elong	3450 Sep 22 14:50	29° m 48'41	
morning max ci	3449 Nov 05 00:39	0°M	17 33 14	minimum clong	3450 Sep 22 14:50 3450 Sep 22 09:57	29 m/4841 30°RM)	3 33 09
morning set	3449 Nov 10 22:01	10°ML03'17		morning rise	3450 Sep 29 12:06	24° m/59'50	
morning set	3449 Nov 22 18:34	0°×7		direct	3450 Oct 01 21:21	24° Mp 34'56	
	544) 110V 22 10.54	0 %		asc. node	3450 Oct 05 12:36	25° m 34'40	
superior conj	3449 Nov 23 15:51	1° ∡ ¹26'55	0°09'21	morning max el	3450 Oct 08 17:52	28° Mp 03'29	17°52'38
minimum elong	3449 Nov 23 16:53	1°×20'35'	0°09'13	morning max cr	3450 Oct 10 12:42	0° ರ	17 32 30
behind sun begin	3449 Nov 23 08:39	0° ₹ 57'32	0 07 15	morning set	3450 Oct 24 16:22	o — 22° Ω 58'51	
behind sun end	3449 Nov 24 01:07	2° × ⁷ 04'43		morning sec	3450 Oct 28 14:11	0°M	
desc. node	3449 Nov 25 00:29	3°×739'31			3130 000 20 11.11	0 110	
max. Earth dist.	3449 Nov 29 05:47	10° ₹ 26'06	1.44437 AU	superior conj	3450 Nov 04 14:29	12°M16'23	0°49'15
evening rise	3449 Dec 09 14:25	26° × ⁷ 37'25	1.11137 110	minimum elong	3450 Nov 04 18:29	12°M33'27	0°48'43
evening rise	3449 Dec 11 19:15	0°중		desc. node	3450 Nov 11 21:30	24°M26'53	0 10 15
	3450 Jan 01 08:36	0° ≈		max. Earth dist.	3450 Nov 11 20:09	24°M21'23	1.43082 AU
evening max el	3450 Jan 06 14:03	6°≈10'19	20°30'10	max. Earth dist.	3450 Nov 15 08:09	0°×7	1.15002710
retrograde	3450 Jan 14 15:19	10°≈55'01	20 30 10	evening rise	3450 Nov 19 02:11	5° x ⁷ 55'26	
asc. node	3450 Jan 14 14:50	10°≈55'01		evening rise	3450 Dec 05 03:24	0°る	
evening set	3450 Jan 18 12:22	9°≈28'12		evening max el	3450 Dec 20 10:59	19° る 42'43	21°41'40
inferior conj	3450 Jan 23 21:27	3°≈20'15	2°44'52	retrograde	3450 Dec 29 12:39	25°る06'23	21 41 40
minimum elong	3450 Jan 23 18:56	3°≈28'50	2°44'12	asc. node	3451 Jan 01 11:52	23 3 00 23	
min. Earth dist.	3450 Jan 24 12:52	2°≈27'40	0.67398 AU	evening set	3451 Jan 02 20:05	24 3 18 30 23° 3 24'09	
iiiii. Eartii tiist.	3450 Jan 26 09:44	2 ≈27 40 30°Rる	0.07398 AU	•	3451 Jan 08 04:24	23 3 24 09	2007/04
morning rise	3450 Jan 29 01:20	30 KO 27° ろ 06'42		inferior conj	3451 Jan 08 02:02	17 306 42 17° る 14'55	2°06'17
C		21 30042 24° る 37'12		minimum elong		17 3 14 33	
direct	3450 Feb 03 15:55			min. Earth dist.	3451 Jan 08 07:50		0.67857 AU
	3450 Feb 13 13:17	0°≈	24026127	morning rise	3451 Jan 13 07:48	10°る54'41	
morning max el	3450 Feb 14 22:44	1°≈21'31	24°26'27	direct	3451 Jan 18 07:35	8° る 46'03	22055125
desc. node	3450 Feb 20 23:43	8°≈11'20		morning max el	3451 Jan 28 08:13	14°る42'52	22°57'25
_	3450 Mar 08 15:04	0° ∀		desc. node	3451 Feb 07 20:44	27° る 25'36	
morning set	3450 Mar 22 20:59	23° ∺ 17′01			3451 Feb 09 17:58	0° ≈	
max. Earth dist.	3450 Mar 26 13:03	29°) (48'55	1.37658 AU		3451 Mar 01 14:27	0° ∀	
	3450 Mar 26 15:29	0° Y		morning set	3451 Mar 03 20:48	3°) 43′30	
		••		max. Earth dist.	3451 Mar 08 07:58	11° ∺ 16′22	1.39825 AU
superior conj	3450 Apr 02 09:57	12° Y 40'41				>	
minimum elong	3450 Apr 02 14:25	13° Y 02'14	1°30'21	superior conj	3451 Mar 16 01:33	25° ₭ 00'55	
evening rise	3450 Apr 11 02:20	29° Ƴ 48'31		minimum elong	3451 Mar 16 05:53	25° ∺ 20'49	1°52'29
	3450 Apr 11 04:39	0°8			3451 Mar 18 18:10	0° Υ	
asc. node	3450 Apr 12 14:10	2° 8 45'27		evening rise	3451 Mar 25 18:00	13° Y 16'42	
evening max el	3450 Apr 27 19:07	26° 8 52'22	19°10'18	asc. node	3451 Mar 30 11:12	22° Y 09'59	
	3450 May 01 23:40	$\Pi^{\circ}0$			3451 Apr 03 22:54	0°8	
retrograde	3450 May 06 16:57	1° Ⅱ 12'21		evening max el	3451 Apr 10 22:31	9° 8 17'36	18°30'06
evening set	3450 May 08 18:20	0° Ⅱ 59'27		retrograde	3451 Apr 18 13:06	13° 8 02'26	
	3450 May 11 17:14	30° ₹8		evening set	3451 Apr 20 20:51	12° 8 42'35	
inferior conj	3450 May 17 02:11	26° 8 48'21	0°49'26	inferior conj	3451 Apr 28 08:59	8° 8 12'34	
minimum elong	3450 May 17 04:09	26° 8 45'01	0°48'44	minimum elong	3451 Apr 28 12:45	8° 8 05'06	2°14'03
desc. node	3450 May 19 22:55	24° 8 52'26		min. Earth dist.	3451 May 01 19:13	5° 8 30'55	0.58212 AU
min. Earth dist.	3450 May 20 00:17	24° 8 50'14	0.56360 AU	morning rise	3451 May 06 01:32	2° 8 47'26	
morning rise	3450 May 25 10:51	21° 8 55'48		desc. node	3451 May 06 19:57	2° 8 25'48	
direct	3450 May 30 09:54	20° 8 58'35		direct	3451 May 11 23:54	1° 8 16'56	
morning max el	3450 Jun 13 15:33	28° 8 16'00	25°29'16	morning max el	3451 May 26 09:13	8° 8 57'37	26°49'41
	3450 Jun 15 08:58	Π $^{\circ}0$			3451 Jun 11 08:28	Π $^{\circ}0$	
	3450 Jul 05 06:56	0ංම		morning set	3451 Jun 25 03:31	25° ∏ 49'51	
asc. node	3450 Jul 09 13:24	8° © 34'59		asc. node	3451 Jun 26 10:28	28° ∏ 33'46	
morning set	3450 Jul 10 17:29	11° © 02'21			3451 Jun 27 02:34	0 \circ \odot	
superior conj	3450 Jul 17 16:22	26° © 08'31	1°16'11	superior conj	3451 Jul 02 04:08	11° 5 04'36	0°57'08
minimum elong	3450 Jul 17 14:01	25° © 55'35	1°15'50	minimum elong	3451 Jul 02 01:59	10° © 52'48	0°56'44
max. Earth dist.	3450 Jul 18 17:50	28° 5 27'53	1.32492 AU	max. Earth dist.	3451 Jul 02 05:01	11° 5 09'28	1.32105 AU
	3450 Jul 19 10:43	$0^{\circ}\Omega$		evening rise	3451 Jul 09 01:07	26°500'14	
evening rise	3450 Jul 24 18:12	11° Ω 18′38			3451 Jul 10 23:15	$0^{\circ}\Omega$	
	3450 Aug 03 11:58	0° m			3451 Jul 28 04:11	0° m	
desc. node	3450 Aug 15 22:14	19° m 20'46		desc. node	3451 Aug 02 19:15	7° m 21'18	
	3450 Aug 24 23:52	0∘ ⊽		evening max el	3451 Aug 07 22:11	12° m 50'40	26°40'10
evening max el	3450 Aug 25 19:27	0° ≏ 47'16	27°19'05	retrograde	3451 Aug 21 21:04	20°M 01'58	
retrograde	3450 Sep 08 15:00	8° ≏ 02'25		evening set	3451 Aug 28 16:13	18° m 04'19	
evening set	3450 Sep 15 19:16	5° £ 37'14		min. Earth dist.	3451 Sep 01 12:02	15° ™ 27'55	0.60102 AU
min. Earth dist.	3450 Sep 19 09:40		0.62131 AU	inferior conj	3451 Sep 04 18:16	12° m 50'03	-4°40'57
	-			-	=		

minimum elong	3451 Sep 04 23:15	12° m 39'55	4°40'07	inferior conj	3452 Aug 16 09:09	24° Ω 59'56	-5°06'09
morning rise	3451 Sep 12 08:18	8° mp 09'30		minimum elong	3452 Aug 16 10:37	24° Ω 57'22	
direct	3451 Sep 14 17:31	7° mp 48'21		morning rise	3452 Aug 24 09:12	20° Ω 42'10	
morning max el	3451 Sep 22 05:39	11° m 28'51	18°11'14	direct	3452 Aug 26 21:34	20° Ω 22'36	
asc. node	3451 Sep 22 09:39	11°Mp38'36		morning max el	3452 Sep 04 10:06	24° Ω 25'03	18°50'30
	3451 Oct 04 12:42	0∘ ⊽		asc. node	3452 Sep 08 06:41	28° Ω 49'55	
morning set	3451 Oct 08 01:55	6° £ 38′03			3452 Sep 09 03:09	0° m	
				morning set	3452 Sep 20 22:02	20° m 47'23	
superior conj	3451 Oct 17 14:24	24° ≏ 19'48	1°18'02		3452 Sep 25 14:42	0∘ ত	
minimum elong	3451 Oct 17 18:25	24° ≏ 37'54	1°17'34				
	3451 Oct 20 18:46	0°M		superior conj	3452 Sep 29 10:22	7° £ 21'53	1°35'43
max. Earth dist.	3451 Oct 25 05:26	7° M 40'01	1.41264 AU	minimum elong	3452 Sep 29 12:56	7° ≏ 34'09	1°35'32
desc. node	3451 Oct 29 18:32	15°M12'57		max. Earth dist.	3452 Oct 06 10:39	20° ≏ 16'24	1.39210 AU
evening rise	3451 Oct 30 06:05	15°M59'53		evening rise	3452 Oct 10 09:00	27° ≏ 07'18	
	3451 Nov 08 04:17	0° ∡ ¹			3452 Oct 12 01:49	0°M	
	3451 Nov 30 01:42	0°ප		desc. node	3452 Oct 15 15:34	5°M53′21	
evening max el	3451 Dec 03 03:16	3° る 18'07	23°00'10		3452 Oct 31 18:02	0° ∡ 7	
retrograde	3451 Dec 13 07:31	9° る 20'12		evening max el	3452 Nov 14 16:35	16° ₹ 56'52	24°19'48
evening set	3451 Dec 18 03:07	7° る 21'43		retrograde	3452 Nov 25 22:42	23° ₹ 32'12	
asc. node	3451 Dec 19 08:53	6° る 11'56		evening set	3452 Dec 01 07:50	21° ҂ 17'31	
min. Earth dist.	3451 Dec 23 04:33	1° る 24'48	0.67952 AU	asc. node	3452 Dec 05 05:54	16° ₰ 56'09	
inferior conj	3451 Dec 23 12:10	0° る 58'33	1°22'15	min. Earth dist.	3452 Dec 06 00:37	15° ₹ 54'13	0.67695 AU
minimum elong	3451 Dec 23 10:24	1° る 04'38	1°21'34	inferior conj	3452 Dec 06 18:57	14° ₹ 52'40	0°31'32
	3451 Dec 24 05:12	30°₹ ⋌ 7		minimum elong	3452 Dec 06 18:11	14° ₹ 55'12	0°31'12
morning rise	3451 Dec 28 17:34	24° √ 49'58		morning rise	3452 Dec 12 04:35	8° ҂ 49'43	
direct	3452 Jan 02 02:51	23° ₰ 04'09		direct	3452 Dec 16 00:28	7° ∡ ¹26′01	
morning max el	3452 Jan 10 22:08	28° ∡ 12'22	21°32'07	morning max el	3452 Dec 23 19:23	11° ≯ 753′02	20°17'03
	3452 Jan 12 14:55	0°ಕ			3453 Jan 06 16:17	0° ප	
desc. node	3452 Jan 25 17:46	17° る 11'24		desc. node	3453 Jan 11 14:48	7° る 19'43	
	3452 Feb 03 09:40	0° ≈		morning set	3453 Jan 20 13:50	20° る 59'27	
morning set	3452 Feb 11 15:37	12° ≈ 47'43			3453 Jan 26 08:18	0° ≈	
max. Earth dist.	3452 Feb 18 07:55	23° ≈ 36′22	1.41918 AU	max. Earth dist.	3453 Jan 30 16:04	6° ≈ 52'45	1.43642 AU
	3452 Feb 22 03:40	0°) €					
				superior conj	3453 Feb 05 15:18	16° ≈ 35'19	
superior conj	3452 Feb 25 20:53	6° ∺ 22'30		minimum elong	3453 Feb 05 11:55	16°≈21'21	2°03'51
minimum elong	3452 Feb 25 22:45	6°) (30′37	2°05'32		3453 Feb 13 14:34	0°) (
evening rise	3452 Mar 07 21:00	26°) €05'27		evening rise	3453 Feb 18 07:06	8° ₩ 06'23	
	3452 Mar 10 00:23	0° Υ		asc. node	3453 Mar 03 05:14	29°) 37'21	
asc. node	3452 Mar 16 08:13	11° Υ 09'51			3453 Mar 03 11:33	0° Υ	
evening max el	3452 Mar 24 08:03	22°Υ10'30	18°09'49	evening max el	3453 Mar 07 20:27	5°Υ22'09	18°08'55
retrograde	3452 Mar 31 03:15	25°Υ36'48		retrograde	3453 Mar 14 07:25	8° Υ 45'22	
evening set	3452 Apr 02 17:24	25° Y 07′26	2000115	evening set	3453 Mar 17 03:16	8°Υ05'08	2022145
inferior conj	3452 Apr 09 12:27	20°Υ16'27	3°08'17	inferior conj	3453 Mar 23 09:09	2°Υ53'49	
minimum elong	3452 Apr 09 15:25	20°Υ09'36	3°07'46	minimum elong	3453 Mar 23 10:21	2°Υ50'40	3°33'40
min. Earth dist.	3452 Apr 12 19:57	17° Υ 14'39	0.60367 AU	min. Earth dist.	3453 Mar 26 05:02	29° ¥ 56′28	0.62492 AU
morning rise	3452 Apr 16 11:14	14° Υ 28'22			3453 Mar 26 03:38	30° ₹	
desc. node	3452 Apr 22 16:59	12° Υ 22'58 12° Υ 22'34		morning rise	3453 Mar 29 16:10	26° H 51'54 24° H 18'13	
direct	3452 Apr 23 02:00	12° 12° 12° 12° 12° 12° 12° 12°	27020146	direct desc. node	3453 Apr 05 13:37	25° H 04'43	
morning max el	3452 May 07 08:55		27 36 40	desc. node	3453 Apr 09 14:00	25 π0445 0°Υ	
	3452 May 15 17:34	0°B 8°0		mamina may al	3453 Apr 17 04:48	0° γ 2° Υ 15'48	27950141
marning gat	3452 Jun 03 04:54 3452 Jun 08 10:10	10° Ⅱ 25'05		morning max el	3453 Apr 19 14:35	0° 8	2/3041
morning set asc. node							
max. Earth dist.				marning got	3453 May 10 01:23		
max. Earth dist.	3452 Jun 12 07:29	18° Ⅱ 39'35	1 22122 ATT	morning set	3453 May 23 11:25	24° 8 41'45	
			1.32122 AU		3453 May 23 11:25 3453 May 26 01:18	24° ႘ 41'45 0°Ⅲ	1 22547 AIX
	3452 Jun 12 07:29 3452 Jun 14 16:29	18°∏39'35 23°∏50'00		max. Earth dist.	3453 May 23 11:25 3453 May 26 01:18 3453 May 29 00:26	24° ႘ 41'45 0°Ⅲ 6°Ⅲ16'56	1.32547 AU
superior conj	3452 Jun 12 07:29 3452 Jun 14 16:29 3452 Jun 15 15:28	18°Д39'35 23°Д50'00 25°Д56'11	0°34'28		3453 May 23 11:25 3453 May 26 01:18	24° ႘ 41'45 0°Ⅲ	1.32547 AU
	3452 Jun 12 07:29 3452 Jun 14 16:29 3452 Jun 15 15:28 3452 Jun 15 14:00	18°Д39'35 23°Д50'00 25°Д56'11 25°Д48'03		max. Earth dist.	3453 May 23 11:25 3453 May 26 01:18 3453 May 29 00:26 3453 May 30 04:31	24° 8 41'45 0° II 6° I 16'56 8° I 48'15	
superior conj minimum elong	3452 Jun 12 07:29 3452 Jun 14 16:29 3452 Jun 15 15:28 3452 Jun 15 14:00 3452 Jun 17 11:48	18°Д39'35 23°Д50'00 25°Д56'11 25°Д48'03 0°©	0°34'28	max. Earth dist. asc. node superior conj	3453 May 23 11:25 3453 May 26 01:18 3453 May 29 00:26 3453 May 30 04:31 3453 May 31 00:42	24° 8 41'45 0°П 6°П16'56 8°П48'15	0°08'50
superior conj	3452 Jun 12 07:29 3452 Jun 14 16:29 3452 Jun 15 15:28 3452 Jun 15 14:00 3452 Jun 17 11:48 3452 Jun 22 11:27	18°П39'35 23°П50'00 25°П56'11 25°П48'03 0°© 10°©49'29	0°34'28	max. Earth dist. asc. node superior conj minimum elong	3453 May 23 11:25 3453 May 26 01:18 3453 May 29 00:26 3453 May 30 04:31 3453 May 31 00:42 3453 May 31 00:17	24°841'45 0°П 6°П16'56 8°П48'15 10°П37'35 10°П35'19	
superior conj minimum elong evening rise	3452 Jun 12 07:29 3452 Jun 14 16:29 3452 Jun 15 15:28 3452 Jun 15 14:00 3452 Jun 17 11:48 3452 Jun 22 11:27 3452 Jul 02 06:12	18°∏39'35 23°∏50'00 25°∏56'11 25°∏48'03 0°© 10°©49'29 0°Ω	0°34'28 0°34'09	max. Earth dist. asc. node superior conj minimum elong behind sun begin	3453 May 23 11:25 3453 May 26 01:18 3453 May 29 00:26 3453 May 30 04:31 3453 May 31 00:42 3453 May 31 00:17 3453 May 30 19:55	24°841'45 0°П 6°П16'56 8°П48'15 10°П37'35 10°П35'19 10°П11'37	0°08'50
superior conj minimum elong evening rise evening max el	3452 Jun 12 07:29 3452 Jun 14 16:29 3452 Jun 15 15:28 3452 Jun 15 14:00 3452 Jun 17 11:48 3452 Jun 22 11:27 3452 Jul 02 06:12 3452 Jul 19 17:37	18°∏39'35 23°∏50'00 25°∏56'11 25°∏48'03 0°\$ 10°\$49'29 0°\$\Omega\$ 24°\$\Omega\$06'05	0°34'28 0°34'09	max. Earth dist. asc. node superior conj minimum elong behind sun begin behind sun end	3453 May 23 11:25 3453 May 26 01:18 3453 May 29 00:26 3453 May 30 04:31 3453 May 31 00:42 3453 May 31 00:17 3453 May 30 19:55 3453 May 31 04:39	24°841'45 0°П 6°П16'56 8°П48'15 10°П37'35 10°П35'19 10°П11'37 10°П59'02	0°08'50
superior conj minimum elong evening rise	3452 Jun 12 07:29 3452 Jun 14 16:29 3452 Jun 15 15:28 3452 Jun 15 14:00 3452 Jun 17 11:48 3452 Jun 22 11:27 3452 Jul 02 06:12 3452 Jul 19 17:37 3452 Jul 19 16:16	18°∏39'35 23°∏50'00 25°∏56'11 25°∏48'03 0°ℱ 10°ℱ49'29 0°ℳ 24°ℳ06'05 24°ℳ02'52	0°34'28 0°34'09	max. Earth dist. asc. node superior conj minimum elong behind sun begin	3453 May 23 11:25 3453 May 26 01:18 3453 May 29 00:26 3453 May 30 04:31 3453 May 31 00:42 3453 May 31 00:17 3453 May 30 19:55 3453 May 31 04:39 3453 Jun 06 23:15	24°841'45 0°П 6°П16'56 8°П48'15 10°П37'35 10°П35'19 10°П11'37 10°П59'02 25°П39'47	0°08'50
superior conj minimum elong evening rise evening max el desc. node	3452 Jun 12 07:29 3452 Jun 14 16:29 3452 Jun 15 15:28 3452 Jun 15 14:00 3452 Jun 17 11:48 3452 Jun 22 11:27 3452 Jul 02 06:12 3452 Jul 19 17:37 3452 Jul 19 16:16 3452 Jul 28 03:18	18° \$\Pi\$ 39'35 23° \$\Pi\$ 50'00 25° \$\Pi\$ 56'11 25° \$\Pi\$ 48'03 0° \$\mathref{s}\$ 10° \$\mathref{s}\$ 49'29 0° \$\Omega\$ 24° \$\Omega\$ 06'05 24° \$\Omega\$ 02'52 0° \$\mathref{m}\$	0°34'28 0°34'09	max. Earth dist. asc. node superior conj minimum elong behind sun begin behind sun end	3453 May 23 11:25 3453 May 26 01:18 3453 May 29 00:26 3453 May 30 04:31 3453 May 31 00:42 3453 May 31 00:17 3453 May 31 04:39 3453 May 31 04:39 3453 Jun 06 23:15 3453 Jun 09 00:52	24°841'45 0°П 6°П16'56 8°П48'15 10°П37'35 10°П35'19 10°П11'37 10°П59'02 25°П39'47 0°©	0°08'50
superior conj minimum elong evening rise evening max el	3452 Jun 12 07:29 3452 Jun 14 16:29 3452 Jun 15 15:28 3452 Jun 15 14:00 3452 Jun 17 11:48 3452 Jun 22 11:27 3452 Jul 02 06:12 3452 Jul 19 17:37 3452 Jul 19 16:16 3452 Jul 28 03:18 3452 Aug 02 17:10	18° ∏39'35 23° ∏50'00 25° ∏56'11 25° ∏48'03 0° © 10° © 49'29 0° Ω 24° Ω06'05 24° Ω02'52 0° M 1° M 12'26	0°34'28 0°34'09	max. Earth dist. asc. node superior conj minimum elong behind sun begin behind sun end evening rise	3453 May 23 11:25 3453 May 26 01:18 3453 May 29 00:26 3453 May 30 04:31 3453 May 31 00:42 3453 May 31 00:17 3453 May 31 04:39 3453 May 31 04:39 3453 Jun 06 23:15 3453 Jun 09 00:52 3453 Jun 26 23:41	24°841'45 0° II 6° II 16'56 8° II 48'15 10° II 37'35 10° II 35'19 10° II 11'37 10° II 59'02 25° II 39'47 0° € 0° €	0°08'50 0°08'45
superior conj minimum elong evening rise evening max el desc. node retrograde	3452 Jun 12 07:29 3452 Jun 14 16:29 3452 Jun 15 15:28 3452 Jun 15 14:00 3452 Jun 17 11:48 3452 Jun 22 11:27 3452 Jul 02 06:12 3452 Jul 19 17:37 3452 Jul 19 16:16 3452 Jul 28 03:18 3452 Aug 02 17:10 3452 Aug 08 06:47	18° \$\Pi\$39'35 23° \$\Pi\$50'00 25° \$\Pi\$56'11 25° \$\Pi\$48'03 0° \$\Sigma\$ 10° \$\Sigma\$49'29 0° \$\Omega\$ 24° \$\Omega\$06'05 24° \$\Omega\$02'52 0° \$\mathrm{m}\$ 1° \$\mathrm{m}\$12'26 30° \$\RA\$	0°34'28 0°34'09	max. Earth dist. asc. node superior conj minimum elong behind sun begin behind sun end evening rise	3453 May 23 11:25 3453 May 26 01:18 3453 May 29 00:26 3453 May 30 04:31 3453 May 31 00:42 3453 May 31 00:17 3453 May 31 04:39 3453 Jun 06 23:15 3453 Jun 09 00:52 3453 Jun 26 23:41 3453 Jul 01 07:20	24°841'45 0°Π 6°Π16'56 8°Π48'15 10°Π37'35 10°Π35'19 10°Π11'37 10°Π59'02 25°Π39'47 0°Θ 0°Ω 4°Ω42'51	0°08'50 0°08'45
superior conj minimum elong evening rise evening max el desc. node	3452 Jun 12 07:29 3452 Jun 14 16:29 3452 Jun 15 15:28 3452 Jun 15 14:00 3452 Jun 17 11:48 3452 Jun 22 11:27 3452 Jul 02 06:12 3452 Jul 19 17:37 3452 Jul 19 16:16 3452 Jul 28 03:18 3452 Aug 02 17:10	18° II 39'35 23° II 50'00 25° II 56'11 25° II 48'03 0° © 10° © 49'29 0° \(\Omega\) 24° \(\Omega\) 00'52 0° \(\Omega\) 1° \(\Omega\) 12'26 30° R\(\Omega\) 29° \(\Omega\) 51'48	0°34'28 0°34'09	max. Earth dist. asc. node superior conj minimum elong behind sun begin behind sun end evening rise	3453 May 23 11:25 3453 May 26 01:18 3453 May 29 00:26 3453 May 30 04:31 3453 May 31 00:42 3453 May 31 00:17 3453 May 31 04:39 3453 May 31 04:39 3453 Jun 06 23:15 3453 Jun 09 00:52 3453 Jun 26 23:41	24°841'45 0° II 6° II 16'56 8° II 48'15 10° II 37'35 10° II 35'19 10° II 11'37 10° II 59'02 25° II 39'47 0° € 0° €	0°08'50 0°08'45

arranina aat	3453 Jul 19 12:58	10° Ω 53'53		avanina sat	3454 Jun 28 22:21	21° © 15'25	
evening set			0.56200 AII	evening set			0.55141.411
min. Earth dist.	3453 Jul 25 17:45		0.56298 AU	min. Earth dist.	3454 Jul 07 04:35	17°540'54	
inferior conj	3453 Jul 28 03:48	6° Ω 24'35		inferior conj	3454 Jul 08 04:48	17°506'38	
minimum elong	3453 Jul 27 23:27	6° Ω 31'17	4°55'04	minimum elong	3454 Jul 07 20:32	17°518'21	3°54'21
morning rise	3453 Aug 05 12:32	2° Ω 26′21		morning rise	3454 Jul 16 20:43	13° © 15'51	
direct	3453 Aug 08 06:18	2° Ω 06'57		direct	3454 Jul 19 21:42	12° © 54'57	
morning max el	3453 Aug 18 04:25	6° Ω 43'23	19°51'24	morning max el	3454 Jul 31 11:05	18° © 17'39	21°13'04
asc. node	3453 Aug 26 03:44	16° Ω 54'17			3454 Aug 09 16:44	$0^{\circ}\Omega$	
	3453 Sep 02 09:46	O° Mp		asc. node	3454 Aug 13 00:48	5° Ω 39'00	
morning set	3453 Sep 05 01:24	5° Mp 17'46		morning set	3454 Aug 20 09:31	20° Ω 02'09	
					3454 Aug 25 03:49	O° m y	
superior conj	3453 Sep 12 21:06	21°M 08'02	1°43'46				
minimum elong	3453 Sep 12 21:56	21°Mp12'11	1°43'46	superior conj	3454 Aug 27 18:17	5° m 25'33	1°43'50
	3453 Sep 17 10:12	0。 亚		minimum elong	3454 Aug 27 17:37	5° m 22'05	1°43'49
max. Earth dist.	3453 Sep 18 15:34	2° ₽ 19'02	1.37170 AU	max. Earth dist.	3454 Sep 01 01:33	14° m 10'04	1.35363 AU
evening rise	3453 Sep 22 10:28	9° ≙ 17'13		evening rise	3454 Sep 05 06:40	22° m 20'29	
desc. node	3453 Oct 02 12:34	26° £ 23'51			3454 Sep 09 10:36	0∘ ত	
	3453 Oct 04 19:27	0°M		desc. node	3454 Sep 19 09:35	16° ≏ 39'19	
	3453 Oct 27 13:28	0° √			3454 Sep 28 13:31	0°M	
evening max el	3453 Oct 28 04:47	0° ∡ ³37'54	25°33'37	evening max el	3454 Oct 10 17:05	14°ML17'20	26°34'11
retrograde	3453 Nov 09 09:26	7° ∡ ³37'49		retrograde	3454 Oct 23 15:11	21°M31'27	
evening set	3453 Nov 15 08:36	5° ₹ 08'42		evening set	3454 Oct 30 03:31	18°M52'14	
min. Earth dist.	3453 Nov 19 00:30	0°×720'16	0.67092 AU	min. Earth dist.	3454 Nov 03 05:34	14°M39'34	0.66141 AU
mm. Latin dist.	3453 Nov 20 00:03	30°RM	0.07072 AC	inferior conj	3454 Nov 04 22:22	12°M37'20	
inferior conj	3453 Nov 20 00:03	28°M46'29	0°24'01	minimum elong	3454 Nov 05 00:38	12°M30'32	
				· ·			1 22 04
minimum elong	3453 Nov 20 23:35	28°M44'30	0°23'45	asc. node	3454 Nov 08 24:00	8°M15'05	
asc. node	3453 Nov 22 02:57	27°M17'58		morning rise	3454 Nov 10 22:24	6°M52'55	
morning rise	3453 Nov 26 14:54	22°M51'32		direct	3454 Nov 13 20:54	6°M04'31	10020120
direct	3453 Nov 29 23:03	21°M47'19	10015152	morning max el	3454 Nov 20 12:11	9°M42'13	18°30'28
morning max el	3453 Dec 07 00:34	25°M44'15	19°15'53		3454 Dec 04 21:02	0° ∡	
	3453 Dec 10 17:51	0° ∡		morning set	3454 Dec 10 15:16	9° ∡ 11'49	
greatest brilliancy	3453 Dec 20 18:19	14° ∡ 17'58	-0.7m	desc. node	3454 Dec 16 08:51	18° ∡ 19'46	
desc. node	3453 Dec 29 11:49	27° ∡ ⁴43'59			3454 Dec 23 18:17	0°₹	
morning set	3453 Dec 30 14:34	29° ∡ ¹27'43					
	3453 Dec 30 22:53	0°る		superior conj	3454 Dec 26 11:03	4°る14'14	-1°05'04
max. Earth dist.	3454 Jan 13 06:46	20° る 49'48	1.44784 AU	minimum elong	3454 Dec 26 03:09		1°04'07
max. Earth dist.	3454 Jan 13 06:46	20° ප් 49'48	1.44784 AU			3° ප් 43'15 5° ප් 08'44	1°04'07 1.45225 AU
max. Earth dist.	3454 Jan 13 06:46 3454 Jan 16 08:25	20°ි 49'48 25°ි 541'21		minimum elong	3454 Dec 26 03:09		
			-1°43'32	minimum elong max. Earth dist.	3454 Dec 26 03:09 3454 Dec 27 00:56	5° る 08'44	
superior conj	3454 Jan 16 08:25	25° පි 41'21	-1°43'32	minimum elong max. Earth dist.	3454 Dec 26 03:09 3454 Dec 27 00:56 3455 Jan 11 09:45	5°පි08'44 29°පි20'02	
superior conj	3454 Jan 16 08:25 3454 Jan 15 23:54	25° ප 41'21 25° ප 07'31	-1°43'32	minimum elong max. Earth dist. evening rise	3454 Dec 26 03:09 3454 Dec 27 00:56 3455 Jan 11 09:45 3455 Jan 11 19:51	5°පි08'44 29°පි20'02 0°≈	1.45225 AU
superior conj minimum elong	3454 Jan 16 08:25 3454 Jan 15 23:54 3454 Jan 19 01:18	25°♂41'21 25°♂07'31 0°≈	-1°43'32	minimum elong max. Earth dist. evening rise	3454 Dec 26 03:09 3454 Dec 27 00:56 3455 Jan 11 09:45 3455 Jan 11 19:51 3455 Jan 20 18:56	5°♂08'44 29°♂20'02 0°≈ 14°≈10'09 0°升	1.45225 AU -0.8m
superior conj minimum elong	3454 Jan 16 08:25 3454 Jan 15 23:54 3454 Jan 19 01:18 3454 Jan 30 20:05	25°♂41'21 25°♂07'31 0°≈ 19°≈11'36	-1°43'32	minimum elong max. Earth dist. evening rise greatest brilliancy	3454 Dec 26 03:09 3454 Dec 27 00:56 3455 Jan 11 09:45 3455 Jan 11 19:51 3455 Jan 20 18:56 3455 Jan 31 18:55	5° ට 08'44 29° ට 20'02 0°≈ 14°≈10'09	1.45225 AU -0.8m
superior conj minimum elong evening rise asc. node	3454 Jan 16 08:25 3454 Jan 15 23:54 3454 Jan 19 01:18 3454 Jan 30 20:05 3454 Feb 06 08:50	25°る41'21 25°る07'31 0°≈ 19°≈11'36 0°米 17°米22'01	-1°43'32	minimum elong max. Earth dist. evening rise greatest brilliancy evening max el asc. node	3454 Dec 26 03:09 3454 Dec 27 00:56 3455 Jan 11 09:45 3455 Jan 11 19:51 3455 Jan 20 18:56 3455 Jan 31 18:55 3455 Feb 02 18:43	5°♂08'44 29°♂20'02 0°≈ 14°≈10'09 0° 升 2°升13'07	1.45225 AU -0.8m
superior conj minimum elong evening rise asc. node evening max el	3454 Jan 16 08:25 3454 Jan 15 23:54 3454 Jan 19 01:18 3454 Jan 30 20:05 3454 Feb 06 08:50 3454 Feb 18 02:15	25°る41'21 25°る07'31 0°≈ 19°≈11'36 0°米	-1°43'32 1°42'50	minimum elong max. Earth dist. evening rise greatest brilliancy evening max el asc. node retrograde	3454 Dec 26 03:09 3454 Dec 27 00:56 3455 Jan 11 09:45 3455 Jan 11 19:51 3455 Jan 20 18:56 3455 Jan 31 18:55 3455 Feb 02 18:43 3455 Feb 04 23:18	5°♂08'44 29°♂20'02 0°≈ 14°≈10'09 0° ℋ 2°ℋ13'07 4°ℋ11'50	1.45225 AU -0.8m
superior conj minimum elong evening rise asc. node evening max el retrograde	3454 Jan 16 08:25 3454 Jan 15 23:54 3454 Jan 19 01:18 3454 Jan 30 20:05 3454 Feb 06 08:50 3454 Feb 18 02:15 3454 Feb 19 08:48 3454 Feb 25 20:57	25°る41'21 25°る07'31 0°≈ 19°≈11'36 0°米 17°米22'01 18°米44'34 22°米17'42	-1°43'32 1°42'50	minimum elong max. Earth dist. evening rise greatest brilliancy evening max el asc. node	3454 Dec 26 03:09 3454 Dec 27 00:56 3455 Jan 11 09:45 3455 Jan 11 19:51 3455 Jan 20 18:56 3455 Jan 31 18:55 3455 Feb 02 18:43 3455 Feb 04 23:18 3455 Feb 09 16:03 3455 Feb 13 00:03	5°♂08'44 29°♂20'02 0°≈ 14°≈10'09 0° ₩ 2° ₩13'07 4° ₩11'50 6° ₩07'11 5° ₩02'43	1.45225 AU -0.8m
superior conj minimum elong evening rise asc. node evening max el retrograde evening set	3454 Jan 16 08:25 3454 Jan 15 23:54 3454 Jan 19 01:18 3454 Jan 30 20:05 3454 Feb 06 08:50 3454 Feb 18 02:15 3454 Feb 19 08:48 3454 Feb 25 20:57 3454 Feb 28 22:29	25°る41'21 25°る07'31 0°≈ 19°≈11'36 0°升 17°升22'01 18°升44'34 22°升17'42 21°升25'49	-1°43'32 1°42'50	minimum elong max. Earth dist. evening rise greatest brilliancy evening max el asc. node retrograde evening set	3454 Dec 26 03:09 3454 Dec 27 00:56 3455 Jan 11 09:45 3455 Jan 11 19:51 3455 Jan 20 18:56 3455 Jan 31 18:55 3455 Feb 02 18:43 3455 Feb 04 23:18 3455 Feb 09 16:03 3455 Feb 13 00:03 3455 Feb 18 00:19	5°♂08'44 29°♂20'02 0°≈ 14°≈10'09 0° ₩ 2° ₩13'07 4° ₩11'50 6° ₩07'11 5° ₩02'43 30° №	1.45225 AU -0.8m 19°02'26
superior conj minimum elong evening rise asc. node evening max el retrograde evening set inferior conj	3454 Jan 16 08:25 3454 Jan 15 23:54 3454 Jan 19 01:18 3454 Jan 30 20:05 3454 Feb 06 08:50 3454 Feb 18 02:15 3454 Feb 19 08:48 3454 Feb 25 20:57 3454 Feb 28 22:29 3454 Mar 06 18:57	25°る41'21 25°る07'31 0°≈ 19°≈11'36 0°升 17°升22'01 18°升44'34 22°升17'42 21°升25'49 15°升55'54	-1°43'32 1°42'50 18°26'47 3°38'02	minimum elong max. Earth dist. evening rise greatest brilliancy evening max el asc. node retrograde evening set inferior conj	3454 Dec 26 03:09 3454 Dec 27 00:56 3455 Jan 11 09:45 3455 Jan 11 19:51 3455 Jan 20 18:56 3455 Jan 31 18:55 3455 Feb 02 18:43 3455 Feb 04 23:18 3455 Feb 09 16:03 3455 Feb 13 00:03 3455 Feb 18 00:19 3455 Feb 18 14:13	5°♂08'44 29°♂20'02 0°≈ 14°≈10'09 0° ★ 2° ★13'07 4° ★11'50 6° ★07'11 5° ★02'43 30°R≈ 29°≈16'15	1.45225 AU -0.8m 19°02'26
superior conj minimum elong evening rise asc. node evening max el retrograde evening set inferior conj minimum elong	3454 Jan 16 08:25 3454 Jan 15 23:54 3454 Jan 19 01:18 3454 Jan 30 20:05 3454 Feb 06 08:50 3454 Feb 18 02:15 3454 Feb 19 08:48 3454 Feb 25 20:57 3454 Feb 28 22:29 3454 Mar 06 18:57 3454 Mar 06 18:27	25°る41'21 25°る07'31 0°≈ 19°≈11'36 0°升 17°升22'01 18°升44'34 22°升17'42 21°升25'49 15°升55'54 15°升57'23	-1°43'32 1°42'50 18°26'47 3°38'02 3°38'01	minimum elong max. Earth dist. evening rise greatest brilliancy evening max el asc. node retrograde evening set inferior conj minimum elong	3454 Dec 26 03:09 3454 Dec 27 00:56 3455 Jan 11 09:45 3455 Jan 11 19:51 3455 Jan 20 18:56 3455 Jan 31 18:55 3455 Feb 02 18:43 3455 Feb 04 23:18 3455 Feb 09 16:03 3455 Feb 13 00:03 3455 Feb 18 00:19 3455 Feb 18 14:13 3455 Feb 18 12:30	5°♂08'44 29°♂20'02 0°≈ 14°≈10'09 0° ¥ 2° ¥13'07 4° ¥11'50 6° ¥07'11 5° ¥02'43 30°R≈ 29°≈16'15 29°≈21'42	1.45225 AU -0.8m 19°02'26 3°26'29 3°26'15
superior conj minimum elong evening rise asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist.	3454 Jan 16 08:25 3454 Jan 15 23:54 3454 Jan 19 01:18 3454 Jan 30 20:05 3454 Feb 06 08:50 3454 Feb 18 02:15 3454 Feb 19 08:48 3454 Feb 25 20:57 3454 Feb 28 22:29 3454 Mar 06 18:57 3454 Mar 06 18:27 3454 Mar 08 23:43	25°♂41'21 25°♂07'31 0°≈ 19°≈11'36 0° ₩ 17° ₩22'01 18° ₩44'34 22° ₩17'42 21° ₩25'49 15° ₩55'54 15° ₩57'23 13° ₩22'16	-1°43'32 1°42'50 18°26'47 3°38'02	minimum elong max. Earth dist. evening rise greatest brilliancy evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist.	3454 Dec 26 03:09 3454 Dec 27 00:56 3455 Jan 11 09:45 3455 Jan 20 18:56 3455 Jan 31 18:55 3455 Feb 02 18:43 3455 Feb 04 23:18 3455 Feb 09 16:03 3455 Feb 13 00:03 3455 Feb 18 00:19 3455 Feb 18 14:13 3455 Feb 18 12:30 3455 Feb 20 03:34	5°♂08'44 29°♂20'02 0°≈ 14°≈10'09 0° ¥ 2° ¥13'07 4° ¥11'50 6° ¥07'11 5° ¥02'43 30°R≈ 29°≈16'15 29°≈21'42 27°≈18'16	1.45225 AU -0.8m 19°02'26 3°26'29 3°26'15
superior conj minimum elong evening rise asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise	3454 Jan 16 08:25 3454 Jan 15 23:54 3454 Jan 19 01:18 3454 Jan 30 20:05 3454 Feb 06 08:50 3454 Feb 18 02:15 3454 Feb 19 08:48 3454 Feb 25 20:57 3454 Feb 28 22:29 3454 Mar 06 18:57 3454 Mar 06 18:27 3454 Mar 08 23:43 3454 Mar 12 13:45	25°♂41'21 25°♂07'31 0°≈ 19°≈11'36 0° ★ 17° ★22'01 18° ★44'34 22° ★17'42 21° ★25'49 15° ★55'54 15° ★57'23 13° ★22'16 9° ★46'31	-1°43'32 1°42'50 18°26'47 3°38'02 3°38'01	minimum elong max. Earth dist. evening rise greatest brilliancy evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise	3454 Dec 26 03:09 3454 Dec 27 00:56 3455 Jan 11 09:45 3455 Jan 11 19:51 3455 Jan 20 18:56 3455 Jan 31 18:55 3455 Feb 02 18:43 3455 Feb 04 23:18 3455 Feb 09 16:03 3455 Feb 18 00:19 3455 Feb 18 14:13 3455 Feb 18 12:30 3455 Feb 20 03:34 3455 Feb 24 00:35	5°♂08'44 29°♂20'02 0°≈ 14°≈10'09 0° ₩ 2° ₩13'07 4° ₩11'50 6° ₩07'11 5° ₩02'43 30° № 29°≈16'15 29°≈21'42 27°≈18'16 23°≈03'29	1.45225 AU -0.8m 19°02'26 3°26'29 3°26'15
superior conj minimum elong evening rise asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct	3454 Jan 16 08:25 3454 Jan 15 23:54 3454 Jan 19 01:18 3454 Jan 30 20:05 3454 Feb 06 08:50 3454 Feb 18 02:15 3454 Feb 19 08:48 3454 Feb 25 20:57 3454 Feb 28 22:29 3454 Mar 06 18:57 3454 Mar 06 18:27 3454 Mar 08 23:43 3454 Mar 12 13:45 3454 Mar 19 09:18	25°♂41'21 25°♂07'31 0°≈ 19°≈11'36 0° ₩ 17° ₩22'01 18° ₩44'34 22° ₩17'42 21° ₩25'49 15° ₩55'54 15° ₩57'23 13° ₩22'16 9° ₩46'31 6° ₩57'42	-1°43'32 1°42'50 18°26'47 3°38'02 3°38'01	minimum elong max. Earth dist. evening rise greatest brilliancy evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct	3454 Dec 26 03:09 3454 Dec 27 00:56 3455 Jan 11 09:45 3455 Jan 11 19:51 3455 Jan 20 18:56 3455 Jan 31 18:55 3455 Feb 02 18:43 3455 Feb 04 23:18 3455 Feb 09 16:03 3455 Feb 18 00:19 3455 Feb 18 14:13 3455 Feb 18 12:30 3455 Feb 20 03:34 3455 Feb 24 00:35 3455 Mar 02 11:52	5°♂08'44 29°♂20'02 0°≈ 14°≈10'09 0° ₩ 2° ₩13'07 4° ₩11'50 6° ₩07'11 5° ₩02'43 30° № 29°≈16'15 29°≈21'42 27°≈18'16 23°≈03'29 20°≈13'20	1.45225 AU -0.8m 19°02'26 3°26'29 3°26'15
superior conj minimum elong evening rise asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node	3454 Jan 16 08:25 3454 Jan 15 23:54 3454 Jan 19 01:18 3454 Jan 30 20:05 3454 Feb 06 08:50 3454 Feb 18 02:15 3454 Feb 19 08:48 3454 Feb 25 20:57 3454 Feb 28 22:29 3454 Mar 06 18:57 3454 Mar 06 18:27 3454 Mar 08 23:43 3454 Mar 12 13:45 3454 Mar 19 09:18 3454 Mar 27 11:02	25°♂41'21 25°♂07'31 0°≈ 19°≈11'36 0° ₩ 17° ₩22'01 18° ₩44'34 22° ₩17'42 21° ₩25'49 15° ₩55'54 15° ₩57'23 13° ₩22'16 9° ₩46'31 6° ₩57'42 10° ₩04'43	-1°43'32 1°42'50 18°26'47 3°38'02 3°38'01 0.64365 AU	minimum elong max. Earth dist. evening rise greatest brilliancy evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node	3454 Dec 26 03:09 3454 Dec 27 00:56 3455 Jan 11 09:45 3455 Jan 11 19:51 3455 Jan 20 18:56 3455 Jan 31 18:55 3455 Feb 02 18:43 3455 Feb 04 23:18 3455 Feb 09 16:03 3455 Feb 18 00:19 3455 Feb 18 14:13 3455 Feb 18 12:30 3455 Feb 20 03:34 3455 Feb 24 00:35 3455 Mar 02 11:52 3455 Mar 14 08:04	5°♂08'44 29°♂20'02 0°≈ 14°≈10'09 0° ℋ 2° ℋ13'07 4° ℋ11'50 6° ℋ07'11 5° ℋ02'43 30° № 29°≈16'15 29°≈21'42 27°≈18'16 23°≈03'29 20°≈13'20 26°≈48'35	1.45225 AU -0.8m 19°02'26 3°26'29 3°26'15 0.65869 AU
superior conj minimum elong evening rise asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct	3454 Jan 16 08:25 3454 Jan 15 23:54 3454 Jan 19 01:18 3454 Jan 30 20:05 3454 Feb 06 08:50 3454 Feb 18 02:15 3454 Feb 19 08:48 3454 Feb 25 20:57 3454 Feb 28 22:29 3454 Mar 06 18:57 3454 Mar 06 18:27 3454 Mar 08 23:43 3454 Mar 12 13:45 3454 Mar 19 09:18 3454 Mar 27 11:02 3454 Apr 01 23:52	25°♂41'21 25°♂07'31 0°≈ 19°≈11'36 0° ₩ 17° ₩22'01 18° ₩44'34 22° ₩17'42 21° ₩25'49 15° ₩55'54 15° ₩57'23 13° ₩22'16 9° ₩46'31 6° ₩57'42 10° ₩04'43 14° ₩52'04	-1°43'32 1°42'50 18°26'47 3°38'02 3°38'01 0.64365 AU	minimum elong max. Earth dist. evening rise greatest brilliancy evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct	3454 Dec 26 03:09 3454 Dec 27 00:56 3455 Jan 11 09:45 3455 Jan 11 19:51 3455 Jan 20 18:56 3455 Jan 31 18:55 3455 Feb 02 18:43 3455 Feb 04 23:18 3455 Feb 09 16:03 3455 Feb 18 00:19 3455 Feb 18 12:30 3455 Feb 18 12:30 3455 Feb 20 03:34 3455 Feb 24 00:35 3455 Mar 02 11:52 3455 Mar 14 08:04 3455 Mar 15 09:49	5°♂08'44 29°♂20'02 0°≈ 14°≈10'09 0° ℋ 2° ℋ13'07 4° ℋ11'50 6° ℋ07'11 5° ℋ02'43 30° №≈ 29°≈16'15 29°≈21'42 27°≈18'16 23°≈03'29 20°≈13'20 26°≈48'35 27°≈51'58	1.45225 AU -0.8m 19°02'26 3°26'29 3°26'15
superior conj minimum elong evening rise asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node	3454 Jan 16 08:25 3454 Jan 15 23:54 3454 Jan 19 01:18 3454 Jan 30 20:05 3454 Feb 06 08:50 3454 Feb 18 02:15 3454 Feb 19 08:48 3454 Feb 25 20:57 3454 Feb 28 22:29 3454 Mar 06 18:57 3454 Mar 06 18:27 3454 Mar 12 13:45 3454 Mar 19 09:18 3454 Mar 27 11:02 3454 Apr 01 23:52 3454 Apr 14 08:08	25°♂41'21 25°♂07'31 0°≈ 19°≈11'36 0°¥ 17°¥22'01 18°¥44'34 22°¥17'42 21°¥25'49 15°¥55'54 15°¥57'23 13°¥22'16 9°¥46'31 6°¥57'42 10°¥04'43 14°¥52'04 0°♥	-1°43'32 1°42'50 18°26'47 3°38'02 3°38'01 0.64365 AU	minimum elong max. Earth dist. evening rise greatest brilliancy evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node	3454 Dec 26 03:09 3454 Dec 27 00:56 3455 Jan 11 09:45 3455 Jan 11 19:51 3455 Jan 20 18:56 3455 Jan 31 18:55 3455 Feb 02 18:43 3455 Feb 04 23:18 3455 Feb 09 16:03 3455 Feb 13 00:03 3455 Feb 18 14:13 3455 Feb 18 12:30 3455 Feb 20 03:34 3455 Feb 24 00:35 3455 Mar 02 11:52 3455 Mar 14 08:04 3455 Mar 15 09:49 3455 Mar 17 10:30	5° ₹08'44 29° ₹20'02 0° ≈ 14° ≈10'09 0° ₹ 2° ₹13'07 4° ₹11'50 6° ₹07'11 5° ₹02'43 30° ₹≈ 29° ≈16'15 29° ≈21'42 27° ≈18'16 23° ≈03'29 20° ≈13'20 26° ≈48'35 27° ≈51'58 0° ₹	1.45225 AU -0.8m 19°02'26 3°26'29 3°26'15 0.65869 AU
superior conj minimum elong evening rise asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el	3454 Jan 16 08:25 3454 Jan 15 23:54 3454 Jan 19 01:18 3454 Jan 30 20:05 3454 Feb 06 08:50 3454 Feb 18 02:15 3454 Feb 19 08:48 3454 Feb 25 20:57 3454 Feb 28 22:29 3454 Mar 06 18:57 3454 Mar 06 18:27 3454 Mar 12 13:45 3454 Mar 19 09:18 3454 Mar 27 11:02 3454 Apr 01 23:52 3454 Apr 14 08:08 3454 May 02 17:30	25°♂41'21 25°♂07'31 0°≈ 19°≈11'36 0° ₩ 17° ₩22'01 18° ₩44'34 22° ₩17'42 21° ₩25'49 15° ₩55'54 15° ₩57'23 13° ₩22'16 9° ₩46'31 6° ₩57'42 10° ₩04'43 14° ₩52'04 0° Ψ	-1°43'32 1°42'50 18°26'47 3°38'02 3°38'01 0.64365 AU	minimum elong max. Earth dist. evening rise greatest brilliancy evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el	3454 Dec 26 03:09 3454 Dec 27 00:56 3455 Jan 11 09:45 3455 Jan 11 19:51 3455 Jan 20 18:56 3455 Jan 31 18:55 3455 Feb 02 18:43 3455 Feb 04 23:18 3455 Feb 13 00:03 3455 Feb 18 00:19 3455 Feb 18 12:30 3455 Feb 18 12:30 3455 Feb 20 03:34 3455 Feb 20 03:34 3455 Feb 21 03:34 3455 Feb 22 00:35 3455 Mar 02 11:52 3455 Mar 14 08:04 3455 Mar 15 09:49 3455 Mar 17 10:30 3455 Apr 08 01:18	5° ₹08'44 29° ₹20'02 0° ≈ 14° ≈10'09 0° ₹ 2° ₹13'07 4° ₹11'50 6° ₹07'11 5° ₹02'43 30° ₹≈ 29° ≈16'15 29° ≈21'42 27° ≈18'16 23° ≈03'29 20° ≈13'20 26° ≈48'35 27° ≈51'58 0° ₹ 0° ₹	1.45225 AU -0.8m 19°02'26 3°26'29 3°26'15 0.65869 AU
superior conj minimum elong evening rise asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el	3454 Jan 16 08:25 3454 Jan 15 23:54 3454 Jan 19 01:18 3454 Jan 30 20:05 3454 Feb 06 08:50 3454 Feb 18 02:15 3454 Feb 25 20:57 3454 Feb 28 22:29 3454 Mar 06 18:57 3454 Mar 06 18:27 3454 Mar 12 13:45 3454 Mar 19 09:18 3454 Mar 27 11:02 3454 Apr 01 23:52 3454 Apr 11 08:08 3454 May 02 17:30 3454 May 07 04:37	25°♂41'21 25°♂07'31 0°≈ 19°≈11'36 0°ℋ 17°ℋ22'01 18°ℋ44'34 22°ℋ17'42 21°ℋ25'49 15°ℋ55'54 15°ℋ57'23 13°ℋ22'16 9°ℋ46'31 6°ℋ57'42 10°ℋ04'43 14°ℋ52'04 0°♈ 0°℧ 8°℧30'47	-1°43'32 1°42'50 18°26'47 3°38'02 3°38'01 0.64365 AU 27°26'19	minimum elong max. Earth dist. evening rise greatest brilliancy evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el	3454 Dec 26 03:09 3454 Dec 27 00:56 3455 Jan 11 09:45 3455 Jan 11 19:51 3455 Jan 20 18:56 3455 Jan 31 18:55 3455 Feb 02 18:43 3455 Feb 04 23:18 3455 Feb 13 00:03 3455 Feb 18 00:19 3455 Feb 18 14:13 3455 Feb 18 12:30 3455 Feb 20 03:34 3455 Feb 20 03:34 3455 Feb 20 03:34 3455 Feb 20 03:34 3455 Feb 20 03:35 3455 Mar 12 10:30 3455 Mar 15 09:49 3455 Mar 17 10:30 3455 Apr 08 01:18 3455 Apr 20 10:18	5° ₹08'44 29° ₹20'02 0° ≈ 14° ≈10'09 0° ₩ 2° ₩ 13'07 4° ₩ 11'50 6° ₩ 07'11 5° ₩ 02'43 30° № 29° ≈16'15 29° ≈21'42 27° ≈18'16 23° ≈ 03'29 20° ≈ 13'20 26° ≈ 48'35 27° ≈ 51'58 0° ₩ 0° Ψ 21° ¥42'07	1.45225 AU -0.8m 19°02'26 3°26'29 3°26'15 0.65869 AU 26°31'39
superior conj minimum elong evening rise asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el	3454 Jan 16 08:25 3454 Jan 15 23:54 3454 Jan 19 01:18 3454 Jan 30 20:05 3454 Feb 06 08:50 3454 Feb 18 02:15 3454 Feb 19 08:48 3454 Feb 25 20:57 3454 Feb 28 22:29 3454 Mar 06 18:57 3454 Mar 06 18:27 3454 Mar 12 13:45 3454 Mar 19 09:18 3454 Mar 27 11:02 3454 Apr 01 23:52 3454 Apr 14 08:08 3454 May 02 17:30	25°♂41'21 25°♂07'31 0°≈ 19°≈11'36 0° ₩ 17° ₩22'01 18° ₩44'34 22° ₩17'42 21° ₩25'49 15° ₩55'54 15° ₩57'23 13° ₩22'16 9° ₩46'31 6° ₩57'42 10° ₩04'43 14° ₩52'04 0° Ψ	-1°43'32 1°42'50 18°26'47 3°38'02 3°38'01 0.64365 AU	minimum elong max. Earth dist. evening rise greatest brilliancy evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el	3454 Dec 26 03:09 3454 Dec 27 00:56 3455 Jan 11 09:45 3455 Jan 11 19:51 3455 Jan 20 18:56 3455 Jan 31 18:55 3455 Feb 02 18:43 3455 Feb 04 23:18 3455 Feb 13 00:03 3455 Feb 18 00:19 3455 Feb 18 12:30 3455 Feb 18 12:30 3455 Feb 20 03:34 3455 Feb 20 03:34 3455 Feb 20 03:34 3455 Feb 20 03:35 3455 Mar 02 11:52 3455 Mar 14 08:04 3455 Mar 17 10:30 3455 Apr 08 01:18 3455 Apr 20 10:18 3455 Apr 24 13:53	5° ₹08'44 29° ₹20'02 0° ≈ 14° ≈10'09 0° ₹ 2° ₹13'07 4° ₹11'50 6° ₹07'11 5° ₹02'43 30° ₹≈ 29° ≈21'42 27° ≈18'16 23° ≈03'29 20° ≈13'20 26° ≈48'35 27° ≈51'58 0° ₹ 0° ₹ 21° ₹42'07 29° ₹43'06	1.45225 AU -0.8m 19°02'26 3°26'29 3°26'15 0.65869 AU
superior conj minimum elong evening rise asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el	3454 Jan 16 08:25 3454 Jan 19 01:18 3454 Jan 30 20:05 3454 Feb 06 08:50 3454 Feb 18 02:15 3454 Feb 19 08:48 3454 Feb 25 20:57 3454 Feb 28 22:29 3454 Mar 06 18:57 3454 Mar 06 18:27 3454 Mar 12 13:45 3454 Mar 19 09:18 3454 Mar 27 11:02 3454 Apr 01 23:52 3454 Apr 14 08:08 3454 May 02 17:30 3454 May 07 04:37 3454 May 12 00:41	25°♂41'21 25°♂07'31 0°≈ 19°≈11'36 0°₭ 17°₭22'01 18°₭44'34 22°₭17'42 21°₭25'49 15°₭55'54 15°₭57'23 13°₭22'16 9°₭46'31 6°₭57'42 10°₭04'43 14°₭52'04 0°♥ 0°℧ 8°℧30'47 18°℧16'40	-1°43'32 1°42'50 18°26'47 3°38'02 3°38'01 0.64365 AU 27°26'19	minimum elong max. Earth dist. evening rise greatest brilliancy evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el	3454 Dec 26 03:09 3454 Dec 27 00:56 3455 Jan 11 09:45 3455 Jan 11 19:51 3455 Jan 20 18:56 3455 Jan 31 18:55 3455 Feb 02 18:43 3455 Feb 04 23:18 3455 Feb 13 00:03 3455 Feb 18 00:19 3455 Feb 18 14:13 3455 Feb 18 12:30 3455 Feb 20 03:34 3455 Feb 20 03:34 3455 Feb 20 03:34 3455 Feb 20 03:34 3455 Feb 20 03:35 3455 Mar 12 10:30 3455 Mar 15 09:49 3455 Mar 17 10:30 3455 Apr 08 01:18 3455 Apr 20 10:18	5° ₹08'44 29° ₹20'02 0° ≈ 14° ≈10'09 0° ₩ 2° ₩ 13'07 4° ₩ 11'50 6° ₩ 07'11 5° ₩ 02'43 30° № 29° ≈16'15 29° ≈21'42 27° ≈18'16 23° ≈ 03'29 20° ≈ 13'20 26° ≈ 48'35 27° ≈ 51'58 0° ₩ 0° Ψ 21° ¥42'07	1.45225 AU -0.8m 19°02'26 3°26'29 3°26'15 0.65869 AU 26°31'39
superior conj minimum elong evening rise asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el	3454 Jan 16 08:25 3454 Jan 19 01:18 3454 Jan 30 20:05 3454 Feb 06 08:50 3454 Feb 18 02:15 3454 Feb 19 08:48 3454 Feb 25 20:57 3454 Feb 28 22:29 3454 Mar 06 18:57 3454 Mar 06 18:27 3454 Mar 12 13:45 3454 Mar 19 09:18 3454 Mar 27 11:02 3454 Apr 01 23:52 3454 Apr 14 08:08 3454 May 02 17:30 3454 May 07 04:37 3454 May 12 00:41	25°♂41'21 25°♂07'31 0°≈ 19°≈11'36 0° ₩ 17° ₩22'01 18° ₩44'34 22° ₩17'42 21° ₩25'49 15° ₩57'23 13° ₩22'16 9° ₩46'31 6° ₩57'42 10° ₩04'43 14° ₩52'04 0° Ψ 0° ₩ 8° ₩30'47 18° ₩16'40 25° ₩02'03	-1°43'32 1°42'50 18°26'47 3°38'02 3°38'01 0.64365 AU 27°26'19 1.33405 AU -0°18'58	minimum elong max. Earth dist. evening rise greatest brilliancy evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el morning set max. Earth dist.	3454 Dec 26 03:09 3454 Dec 27 00:56 3455 Jan 11 09:45 3455 Jan 11 19:51 3455 Jan 20 18:56 3455 Jan 31 18:55 3455 Feb 02 18:43 3455 Feb 04 23:18 3455 Feb 09 16:03 3455 Feb 13 00:03 3455 Feb 18 00:19 3455 Feb 18 12:30 3455 Feb 18 12:30 3455 Feb 20 03:34 3455 Feb 20 03:34 3455 Feb 20 03:34 3455 Feb 20 03:35 3455 Mar 02 11:52 3455 Mar 14 08:04 3455 Mar 15 09:49 3455 Mar 17 10:30 3455 Apr 08 01:18 3455 Apr 20 10:18 3455 Apr 24 13:53 3455 Apr 24 17:18	5°♂08'44 29°♂20'02 0°≈ 14°≈10'09 0°ℋ 2°ℋ13'07 4°ℋ11'50 6°ℋ07'11 5°ℋ02'43 30°₨≈ 29°≈16'15 29°≈21'42 27°≈18'16 23°≈03'29 20°≈13'20 26°≈48'35 27°≈51'58 0°ℋ 21°Ƴ42'07 29°Ƴ43'06 0°℧	1.45225 AU -0.8m 19°02'26 3°26'29 3°26'15 0.65869 AU 26°31'39
superior conj minimum elong evening rise asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el morning set max. Earth dist.	3454 Jan 16 08:25 3454 Jan 19 01:18 3454 Jan 30 20:05 3454 Feb 06 08:50 3454 Feb 18 02:15 3454 Feb 19 08:48 3454 Feb 25 20:57 3454 Feb 28 22:29 3454 Mar 06 18:57 3454 Mar 06 18:27 3454 Mar 12 13:45 3454 Mar 19 09:18 3454 Mar 27 11:02 3454 Apr 01 23:52 3454 Apr 14 08:08 3454 May 02 17:30 3454 May 07 04:37 3454 May 15 05:53 3454 May 15 05:53 3454 May 15 06:51	25°♂41'21 25°♂07'31 0°≈ 19°≈11'36 0°ℋ 17°ℋ22'01 18°ℋ44'34 22°ℋ17'42 21°ℋ25'49 15°ℋ55'54 15°ℋ57'23 13°ℋ22'16 9°ℋ46'31 6°ℋ57'42 10°ℋ04'43 14°ℋ52'04 0°♈ 0°℧ 8°♂30'47 18°♂16'40 25°♂07'09	-1°43'32 1°42'50 18°26'47 3°38'02 3°38'01 0.64365 AU 27°26'19 1.33405 AU -0°18'58	minimum elong max. Earth dist. evening rise greatest brilliancy evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el morning set max. Earth dist.	3454 Dec 26 03:09 3454 Dec 27 00:56 3455 Jan 11 09:45 3455 Jan 11 19:51 3455 Jan 20 18:56 3455 Jan 31 18:55 3455 Feb 02 18:43 3455 Feb 04 23:18 3455 Feb 09 16:03 3455 Feb 18 00:19 3455 Feb 18 14:13 3455 Feb 18 12:30 3455 Feb 20 03:34 3455 Feb 20 03:34 3455 Feb 20 03:34 3455 Feb 20 03:35 3455 Mar 02 11:52 3455 Mar 14 08:04 3455 Mar 15 09:49 3455 Mar 17 10:30 3455 Apr 08 01:18 3455 Apr 20 10:18 3455 Apr 24 13:53 3455 Apr 24 17:18	5° ₹08'44 29° ₹20'02 0° ≈ 14° ≈10'09 0° ₹ 2° ₹13'07 4° ₹11'50 6° ₹07'11 5° ₹02'43 30° ₹≈ 29° ≈21'42 27° ≈18'16 23° ≈03'29 20° ≈13'20 26° ≈48'35 27° ≈51'58 0° ₹ 0° ₹ 21° ₹42'07 29° ₹43'06 0° ₹ 9° ₹03'21	1.45225 AU -0.8m 19°02'26 3°26'29 3°26'15 0.65869 AU 26°31'39 1.34725 AU -0°47'45
superior conj minimum elong evening rise asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el	3454 Jan 16 08:25 3454 Jan 19 01:18 3454 Jan 30 20:05 3454 Feb 06 08:50 3454 Feb 18 02:15 3454 Feb 19 08:48 3454 Feb 25 20:57 3454 Feb 28 22:29 3454 Mar 06 18:57 3454 Mar 06 18:27 3454 Mar 12 13:45 3454 Mar 19 09:18 3454 Mar 27 11:02 3454 Apr 01 23:52 3454 Apr 14 08:08 3454 May 02 17:30 3454 May 07 04:37 3454 May 12 00:41 3454 May 15 05:53 3454 May 17 01:33	25°♂41'21 25°♂07'31 0°≈ 19°≈11'36 0°ℋ 17°ℋ22'01 18°ℋ44'34 22°ℋ17'42 21°ℋ55'54 15°ℋ55'54 15°ℋ57'23 13°ℋ22'16 9°ℋ46'31 6°ℋ57'42 10°ℋ04'43 14°ℋ52'04 0°❤ 0°℧ 8°℧30'47 18°℧16'40 25°℧02'03 25°℧07'09 28°℧55'02	-1°43'32 1°42'50 18°26'47 3°38'02 3°38'01 0.64365 AU 27°26'19 1.33405 AU -0°18'58	minimum elong max. Earth dist. evening rise greatest brilliancy evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el morning set max. Earth dist.	3454 Dec 26 03:09 3454 Dec 27 00:56 3455 Jan 11 09:45 3455 Jan 11 19:51 3455 Jan 20 18:56 3455 Jan 31 18:55 3455 Feb 02 18:43 3455 Feb 04 23:18 3455 Feb 13 00:03 3455 Feb 18 00:19 3455 Feb 18 14:13 3455 Feb 18 12:30 3455 Feb 20 03:34 3455 Feb 20 03:34 3455 Feb 20 03:53 3455 Mar 02 11:52 3455 Mar 14 08:04 3455 Mar 15 09:49 3455 Mar 17 10:30 3455 Apr 08 01:18 3455 Apr 20 10:18 3455 Apr 24 13:53 3455 Apr 24 17:18	5° ₹08'44 29° ₹20'02 0° ≈ 14° ≈10'09 0° ₹ 2° ₹13'07 4° ₹11'50 6° ₹07'11 5° ₹02'43 30° ₹≈ 29° ≈21'42 27° ≈18'16 23° ≈03'29 20° ≈13'20 26° ≈48'35 27° ≈51'58 0° ₹ 0° ₹ 21° ₹42'07 29° ₹43'06 0° ₹ 9° ₹03'21 9° ₹16'18	1.45225 AU -0.8m 19°02'26 3°26'29 3°26'15 0.65869 AU 26°31'39
superior conj minimum elong evening rise asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el morning set max. Earth dist. superior conj minimum elong asc. node	3454 Jan 16 08:25 3454 Jan 19 01:18 3454 Jan 30 20:05 3454 Feb 06 08:50 3454 Feb 18 02:15 3454 Feb 19 08:48 3454 Feb 25 20:57 3454 Feb 28 22:29 3454 Mar 06 18:57 3454 Mar 06 18:27 3454 Mar 12 13:45 3454 Mar 19 09:18 3454 Mar 19 09:18 3454 Mar 27 11:02 3454 Apr 01 23:52 3454 Apr 14 08:08 3454 May 02 17:30 3454 May 07 04:37 3454 May 15 05:53 3454 May 15 06:51 3454 May 17 01:33 3454 May 17 13:41	25°♂41'21 25°♂07'31 0°≈ 19°≈11'36 0°ℋ 17°ℋ22'01 18°ℋ44'34 22°ℋ17'42 21°ℋ25'49 15°ℋ55'54 15°ℋ57'23 13°ℋ22'16 9°ℋ46'31 6°ℋ57'42 10°ℋ04'43 14°ℋ52'04 0°❤ 0°℧ 8°℧30'47 18°℧16'40 25°℧02'03 25°℧07'09 28°℧55'02 0°Ⅱ	-1°43'32 1°42'50 18°26'47 3°38'02 3°38'01 0.64365 AU 27°26'19 1.33405 AU -0°18'58	minimum elong max. Earth dist. evening rise greatest brilliancy evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el morning set max. Earth dist.	3454 Dec 26 03:09 3454 Dec 27 00:56 3455 Jan 11 09:45 3455 Jan 11 19:51 3455 Jan 20 18:56 3455 Jan 31 18:55 3455 Feb 02 18:43 3455 Feb 04 23:18 3455 Feb 09 16:03 3455 Feb 18 00:19 3455 Feb 18 14:13 3455 Feb 18 12:30 3455 Feb 20 03:34 3455 Feb 20 03:34 3455 Feb 20 03:53 3455 Feb 24 00:35 3455 Mar 02 11:52 3455 Mar 14 08:04 3455 Mar 15 09:49 3455 Mar 17 10:30 3455 Apr 08 01:18 3455 Apr 20 10:18 3455 Apr 24 17:18 3455 Apr 29 04:48 3455 Apr 29 07:18 3455 May 03 22:36	5° ₹08'44 29° ₹20'02 0° ≈ 14° ≈10'09 0° ₹ 2° ₹13'07 4° ₹11'50 6° ₹07'11 5° ₹02'43 30° ₹≈ 29° ≈16'15 29° ≈21'42 27° ≈18'16 23° ≈03'29 20° ≈13'20 26° ≈48'35 27° ≈51'58 0° ₹ 0° ₹ 0° ₹ 9° ₹03'21 9° ₹16'18 18° ₹56'09	1.45225 AU -0.8m 19°02'26 3°26'29 3°26'15 0.65869 AU 26°31'39 1.34725 AU -0°47'45
superior conj minimum elong evening rise asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el morning set max. Earth dist.	3454 Jan 16 08:25 3454 Jan 19 01:18 3454 Jan 30 20:05 3454 Feb 06 08:50 3454 Feb 18 02:15 3454 Feb 19 08:48 3454 Feb 25 20:57 3454 Feb 28 22:29 3454 Mar 06 18:57 3454 Mar 06 18:27 3454 Mar 12 13:45 3454 Mar 19 09:18 3454 Mar 19 09:18 3454 Mar 27 11:02 3454 Apr 01 23:52 3454 Apr 14 08:08 3454 May 02 17:30 3454 May 07 04:37 3454 May 15 06:51 3454 May 17 01:33 3454 May 17 13:41 3454 May 17 13:41 3454 May 22 10:36	25°♂41'21 25°♂07'31 0°≈ 19°≈11'36 0°ℋ 17°ℋ22'01 18°ℋ44'34 22°ℋ17'42 21°ℋ25'49 15°ℋ55'54 15°ℋ57'23 13°ℋ22'16 9°ℋ46'31 6°ℋ57'42 10°ℋ04'43 14°ℋ52'04 0°Ƴ 0°℧ 8°℧30'47 18°℧16'40 25°℧07'09 28°℧55'02 0°頂 10°頂23'53	-1°43'32 1°42'50 18°26'47 3°38'02 3°38'01 0.64365 AU 27°26'19 1.33405 AU -0°18'58	minimum elong max. Earth dist. evening rise greatest brilliancy evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el morning set max. Earth dist.	3454 Dec 26 03:09 3454 Dec 27 00:56 3455 Jan 11 09:45 3455 Jan 11 19:51 3455 Jan 20 18:56 3455 Jan 31 18:55 3455 Feb 02 18:43 3455 Feb 04 23:18 3455 Feb 09 16:03 3455 Feb 13 00:03 3455 Feb 18 14:13 3455 Feb 18 12:30 3455 Feb 24 00:35 3455 Feb 24 00:35 3455 Feb 24 00:35 3455 Mar 02 11:52 3455 Mar 14 08:04 3455 Mar 15 09:49 3455 Mar 17 10:30 3455 Apr 29 04:48 3455 Apr 29 04:48 3455 Apr 29 07:18 3455 May 03 22:36 3455 May 06 19:37	5° ₹08'44 29° ₹20'02 0° ≈ 14° ≈10'09 0° ₹ 2° ₹13'07 4° ₹11'50 6° ₹07'11 5° ₹02'43 30° ₹≈ 29° ≈16'15 29° ≈21'42 27° ≈18'16 23° ≈03'29 20° ≈13'20 26° ≈48'35 27° ≈51'58 0° ₹ 0° ₹ 0° ₹ 9° ₹03'21 9° ₹16'18 18° ₹56'09 24° ₹56'03	1.45225 AU -0.8m 19°02'26 3°26'29 3°26'15 0.65869 AU 26°31'39 1.34725 AU -0°47'45
superior conj minimum elong evening rise asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el morning set max. Earth dist. superior conj minimum elong asc. node evening rise	3454 Jan 16 08:25 3454 Jan 19 01:18 3454 Jan 30 20:05 3454 Feb 06 08:50 3454 Feb 18 02:15 3454 Feb 19 08:48 3454 Feb 25 20:57 3454 Feb 28 22:29 3454 Mar 06 18:57 3454 Mar 06 18:27 3454 Mar 10 13:45 3454 Mar 12 13:45 3454 Mar 19 09:18 3454 Mar 27 11:02 3454 Apr 01 23:52 3454 Apr 14 08:08 3454 May 02 17:30 3454 May 07 04:37 3454 May 15 05:53 3454 May 15 06:51 3454 May 17 01:33 3454 May 17 13:41 3454 May 22 10:36 3454 May 22 10:36 3454 May 22 10:36 3454 May 22 10:36	25°♂41'21 25°♂07'31 0°≈ 19°≈11'36 0°ℋ 17°ℋ22'01 18°ℋ44'34 22°ℋ17'42 21°ℋ25'49 15°ℋ55'54 15°ℋ55'54 15°ℋ57'23 13°ℋ22'16 9°ℋ46'31 6°ℋ57'42 10°ℋ04'43 14°ℋ52'04 0°℉ 0°℧ 8°℧30'47 18°℧16'40 25°℧07'09 28°℧55'02 0°頂 10°頂23'53 0°©	-1°43'32 1°42'50 18°26'47 3°38'02 3°38'01 0.64365 AU 27°26'19 1.33405 AU -0°18'58 0°18'45	minimum elong max. Earth dist. evening rise greatest brilliancy evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el morning set max. Earth dist. superior conj minimum elong asc. node evening rise	3454 Dec 26 03:09 3454 Dec 27 00:56 3455 Jan 11 09:45 3455 Jan 11 19:51 3455 Jan 20 18:56 3455 Jan 31 18:55 3455 Feb 02 18:43 3455 Feb 04 23:18 3455 Feb 09 16:03 3455 Feb 18 00:19 3455 Feb 18 12:30 3455 Feb 18 12:30 3455 Feb 20 03:34 3455 Feb 21 00:35 3455 Mar 17 10:30 3455 Mar 17 10:30 3455 Apr 08 01:18 3455 Apr 20 10:18 3455 Apr 20 10:18 3455 Apr 20 10:18 3455 Apr 29 04:48 3455 Apr 29 07:18 3455 May 03 22:36 3455 May 06 19:37 3455 May 09 07:04	5° ₹08'44 29° ₹20'02 0° ≈ 14° ≈10'09 0° ₹ 2° ₹13'07 4° ₹11'50 6° ₹07'11 5° ₹02'43 30° ₹≈ 29° ≈16'15 29° ≈21'42 27° ≈18'16 23° ≈03'29 20° ≈13'20 26° ≈48'35 27° ≈51'58 0° ₹ 0° ₹ 21° ₹42'07 29° ₹43'06 0° ₹ 9° ₹03'21 9° ₹16'18 18° ₹56'09 24° ₹56'03 0° ¶	1.45225 AU -0.8m 19°02'26 3°26'29 3°26'15 0.65869 AU 26°31'39 1.34725 AU -0°47'45 0°47'15
superior conj minimum elong evening rise asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el morning set max. Earth dist. superior conj minimum elong asc. node	3454 Jan 16 08:25 3454 Jan 19 01:18 3454 Jan 30 20:05 3454 Feb 06 08:50 3454 Feb 18 02:15 3454 Feb 19 08:48 3454 Feb 25 20:57 3454 Feb 28 22:29 3454 Mar 06 18:57 3454 Mar 06 18:27 3454 Mar 12 13:45 3454 Mar 12 13:45 3454 Mar 19 09:18 3454 Mar 27 11:02 3454 Apr 01 23:52 3454 Apr 14 08:08 3454 May 02 17:30 3454 May 07 04:37 3454 May 15 06:51 3454 May 17 01:33 3454 May 17 01:33 3454 May 17 13:41 3454 May 22 10:36 3454 Jun 01 14:42 3454 Jun 11 2 21:52	25°♂41'21 25°♂07'31 0°≈ 19°≈11'36 0°ℋ 17°ℋ22'01 18°ℋ44'34 22°ℋ17'42 21°ℋ25'49 15°ℋ55'54 15°ℋ57'23 13°ℋ22'16 9°ℋ46'31 6°ℋ57'42 10°ℋ04'43 14°ℋ52'04 0°℉ 0°℧ 8°℧30'47 18°℧16'40 25°℧02'03 25°℧07'09 28°℧55'02 0°頂 10°頂23'53 0°©	-1°43'32 1°42'50 18°26'47 3°38'02 3°38'01 0.64365 AU 27°26'19 1.33405 AU -0°18'58	minimum elong max. Earth dist. evening rise greatest brilliancy evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el morning set max. Earth dist.	3454 Dec 26 03:09 3454 Dec 27 00:56 3455 Jan 11 09:45 3455 Jan 11 19:51 3455 Jan 20 18:56 3455 Jan 31 18:55 3455 Feb 02 18:43 3455 Feb 04 23:18 3455 Feb 09 16:03 3455 Feb 13 00:03 3455 Feb 18 12:30 3455 Feb 18 12:30 3455 Feb 20 03:34 3455 Feb 20 03:34 3455 Feb 20 03:34 3455 Feb 20 03:34 3455 Feb 21 00:35 3455 Mar 02 11:52 3455 Mar 14 08:04 3455 Mar 15 09:49 3455 Mar 17 10:30 3455 Apr 20 10:18 3455 Apr 20 10:18 3455 Apr 20 10:18 3455 Apr 24 17:18 3455 Apr 29 04:48 3455 Apr 29 07:18 3455 May 03 22:36 3455 May 06 19:37 3455 May 09 07:04 3455 May 25 21:05	5° ₹08'44 29° ₹20'02 0° ≈ 14° ≈10'09 0° ₹ 2° ₹13'07 4° ₹11'50 6° ₹07'11 5° ₹02'43 30° ₹≈ 29° ≈16'15 29° ≈21'42 27° ≈18'16 23° ≈03'29 20° ≈13'20 26° ≈48'35 27° ≈51'58 0° ₹ 0° ₹ 0° ₹ 21° ₹42'07 29° ₹43'06 0° ₹ 9° ₹03'21 9° ₹16'18 18° ₹56'09 24° ₹56'03 0° ¶ 25° ¶55'04	1.45225 AU -0.8m 19°02'26 3°26'29 3°26'15 0.65869 AU 26°31'39 1.34725 AU -0°47'45 0°47'15
superior conj minimum elong evening rise asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el morning set max. Earth dist. superior conj minimum elong asc. node evening rise	3454 Jan 16 08:25 3454 Jan 19 01:18 3454 Jan 30 20:05 3454 Feb 06 08:50 3454 Feb 18 02:15 3454 Feb 19 08:48 3454 Feb 25 20:57 3454 Feb 28 22:29 3454 Mar 06 18:57 3454 Mar 06 18:27 3454 Mar 10 13:45 3454 Mar 12 13:45 3454 Mar 19 09:18 3454 Mar 27 11:02 3454 Apr 01 23:52 3454 Apr 14 08:08 3454 May 02 17:30 3454 May 07 04:37 3454 May 15 05:53 3454 May 15 06:51 3454 May 17 01:33 3454 May 17 13:41 3454 May 22 10:36 3454 May 22 10:36 3454 May 22 10:36 3454 May 22 10:36	25°♂41'21 25°♂07'31 0°≈ 19°≈11'36 0°ℋ 17°ℋ22'01 18°ℋ44'34 22°ℋ17'42 21°ℋ25'49 15°ℋ55'54 15°ℋ55'54 15°ℋ57'23 13°ℋ22'16 9°ℋ46'31 6°ℋ57'42 10°ℋ04'43 14°ℋ52'04 0°℉ 0°℧ 8°℧30'47 18°℧16'40 25°℧07'09 28°℧55'02 0°頂 10°頂23'53 0°©	-1°43'32 1°42'50 18°26'47 3°38'02 3°38'01 0.64365 AU 27°26'19 1.33405 AU -0°18'58 0°18'45	minimum elong max. Earth dist. evening rise greatest brilliancy evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el morning set max. Earth dist. superior conj minimum elong asc. node evening rise	3454 Dec 26 03:09 3454 Dec 27 00:56 3455 Jan 11 09:45 3455 Jan 11 19:51 3455 Jan 20 18:56 3455 Jan 31 18:55 3455 Feb 02 18:43 3455 Feb 04 23:18 3455 Feb 09 16:03 3455 Feb 18 00:19 3455 Feb 18 14:13 3455 Feb 18 12:30 3455 Feb 20 03:34 3455 Feb 20 03:34 3455 Feb 20 03:34 3455 Feb 24 00:35 3455 Mar 02 11:52 3455 Mar 14 08:04 3455 Mar 15 09:49 3455 Mar 17 10:30 3455 Apr 20 10:18 3455 Apr 20 10:18 3455 Apr 20 10:18 3455 Apr 24 17:18 3455 Apr 29 07:18 3455 Apr 29 07:18 3455 May 03 22:36 3455 May 09 07:04 3455 May 25 21:05 3455 May 31 07:55	5° ₹08'44 29° ₹20'02 0° ≈ 14° ≈10'09 0° ₹ 2° ₹13'07 4° ₹11'50 6° ₹07'11 5° ₹02'43 30° ₹≈ 29° ≈16'15 29° ≈21'42 27° ≈18'16 23° ≈03'29 20° ≈13'20 26° ≈48'35 27° ≈51'58 0° ₹ 0° ₹ 21° ₹42'07 29° ₹43'06 0° ₹ 9° ₹03'21 9° ₹16'18 18° ₹56'09 24° ₹56'03 0° ¶ 25° ¶55'04 0° ©	1.45225 AU -0.8m 19°02'26 3°26'29 3°26'15 0.65869 AU 26°31'39 1.34725 AU -0°47'45 0°47'15
superior conj minimum elong evening rise asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el morning set max. Earth dist. superior conj minimum elong asc. node evening rise evening max el	3454 Jan 16 08:25 3454 Jan 19 01:18 3454 Jan 30 20:05 3454 Feb 06 08:50 3454 Feb 18 02:15 3454 Feb 19 08:48 3454 Feb 25 20:57 3454 Feb 28 22:29 3454 Mar 06 18:57 3454 Mar 06 18:27 3454 Mar 12 13:45 3454 Mar 12 13:45 3454 Mar 19 09:18 3454 Mar 27 11:02 3454 Apr 01 23:52 3454 Apr 14 08:08 3454 May 02 17:30 3454 May 07 04:37 3454 May 15 06:51 3454 May 17 01:33 3454 May 17 01:33 3454 May 17 13:41 3454 May 22 10:36 3454 Jun 01 14:42 3454 Jun 11 2 21:52	25°♂41'21 25°♂07'31 0°≈ 19°≈11'36 0°ℋ 17°ℋ22'01 18°ℋ44'34 22°ℋ17'42 21°ℋ25'49 15°ℋ55'54 15°ℋ57'23 13°ℋ22'16 9°ℋ46'31 6°ℋ57'42 10°ℋ04'43 14°ℋ52'04 0°℉ 0°℧ 8°℧30'47 18°℧16'40 25°℧02'03 25°℧07'09 28°℧55'02 0°瓜 10°瓜23'53 0°© 15°©08'10	-1°43'32 1°42'50 18°26'47 3°38'02 3°38'01 0.64365 AU 27°26'19 1.33405 AU -0°18'58 0°18'45	minimum elong max. Earth dist. evening rise greatest brilliancy evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el morning set max. Earth dist. superior conj minimum elong asc. node evening rise	3454 Dec 26 03:09 3454 Dec 27 00:56 3455 Jan 11 09:45 3455 Jan 11 19:51 3455 Jan 20 18:56 3455 Jan 31 18:55 3455 Feb 02 18:43 3455 Feb 04 23:18 3455 Feb 09 16:03 3455 Feb 13 00:03 3455 Feb 18 12:30 3455 Feb 18 12:30 3455 Feb 20 03:34 3455 Feb 20 03:34 3455 Feb 20 03:34 3455 Feb 20 03:34 3455 Feb 21 00:35 3455 Mar 02 11:52 3455 Mar 14 08:04 3455 Mar 15 09:49 3455 Mar 17 10:30 3455 Apr 20 10:18 3455 Apr 20 10:18 3455 Apr 20 10:18 3455 Apr 24 17:18 3455 Apr 29 04:48 3455 Apr 29 07:18 3455 May 03 22:36 3455 May 06 19:37 3455 May 09 07:04 3455 May 25 21:05	5° ₹08'44 29° ₹20'02 0° ≈ 14° ≈10'09 0° ₹ 2° ₹13'07 4° ₹11'50 6° ₹07'11 5° ₹02'43 30° ₹≈ 29° ≈16'15 29° ≈21'42 27° ≈18'16 23° ≈03'29 20° ≈13'20 26° ≈48'35 27° ≈51'58 0° ₹ 0° ₹ 0° ₹ 21° ₹42'07 29° ₹43'06 0° ₹ 9° ₹03'21 9° ₹16'18 18° ₹56'09 24° ₹56'03 0° ¶ 25° ¶55'04	1.45225 AU -0.8m 19°02'26 3°26'29 3°26'15 0.65869 AU 26°31'39 1.34725 AU -0°47'45 0°47'15

evening set	3455 Jun 08 14:18	1° © 23'47		evening max el	3456 May 07 08:25	7° Ⅱ 21'08	19°42'42
desc. node	3455 Jun 10 07:19	1°900'26		retrograde	3456 May 17 04:21	12° I 107'27	1, 1,2 1,2
	3455 Jun 13 00:52	30°R Ⅱ		evening set	3456 May 19 03:48	11° II 56'44	
inferior conj	3455 Jun 17 22:15	27° Ⅱ 26'16	-2°12'57	desc. node	3456 May 27 04:20	8° Ⅱ 22'42	
minimum elong	3455 Jun 17 16:06	27° Ⅲ 35′00	2°10'48	inferior conj	3456 May 27 22:39	7° Ⅱ 54'18	-0°13'28
min. Earth dist.	3455 Jun 18 16:32	27° Ⅱ 00′19	0.54874 AU	minimum elong	3456 May 27 22:03	7° Ⅱ 55'14	0°13'15
morning rise	3455 Jun 26 17:39	23° Ⅲ 23′30		transit middle	3456 May 27 22:03	7° Ⅱ 55'14	0°13'15
direct	3455 Jun 30 07:02	22° Ⅱ 56′12		transit begin	3456 May 27 19:51	7° Ⅱ 58'40	
morning max el	3455 Jul 13 07:21	29° Ⅱ 10′13	22°50'33	transit end	3456 May 28 00:14	7° Ⅱ 51'49	
	3455 Jul 14 04:03	0 \circ \odot		min. Earth dist.	3456 May 30 06:06	6° Ⅱ 28'12	0.55573 AU
asc. node	3455 Jul 30 21:51	24° © 54'00		morning rise	3456 Jun 05 13:53	3° Ⅱ 22'36	
	3455 Aug 02 11:26	$0^{\circ}\Omega$		direct	3456 Jun 09 23:27	2° Ⅲ 39'37	
morning set	3455 Aug 04 20:20	4° Ω 54'28		morning max el	3456 Jun 23 21:51	9° Ⅱ 37'19	24°33'26
				_	3456 Jul 09 01:53	0° ©	
superior conj	3455 Aug 11 22:35	20° Ω 03'49	1°37'19	asc. node	3456 Jul 16 18:54	14°931'25	
minimum elong	3455 Aug 11 20:51	19° Ω 54'38	1°37'10	morning set	3456 Jul 19 08:10	19° © 49'46	
max. Earth dist.	3455 Aug 14 20:20	26° Ω 11'59	1.33926 AU		3456 Jul 24 01:19	$0 ^{\circ} \Omega$	
avanina riaa	3455 Aug 16 16:28	0° Т р 6° Тр 04'55		aumorior coni	3456 Jul 26 07:24	4° Ω 54'52	1025110
evening rise	3455 Aug 19 17:06 3455 Sep 02 01:48	0° ⊡		superior conj minimum elong	3456 Jul 26 07:24 3456 Jul 26 05:08	4 δ l 34 32 4° Ω 42'32	1°25'00
desc. node	3455 Sep 02 01:48 3455 Sep 06 06:38	0 = 6° ჲ 32'22		max. Earth dist.	3456 Jul 27 23:57	8°Ω34'44	1.32902 AU
evening max el	3455 Sep 23 05:25	27° Ω 46′24	27°14'01	evening rise	3456 Aug 02 13:56	20° Ω 19'30	1.52702 AC
evening max er	3455 Sep 25 17:08	0°M	27 1401	evening rise	3456 Aug 07 12:01	0° m)	
retrograde	3455 Oct 06 15:17	5° M ₊04'42		desc. node	3456 Aug 23 03:40	25° m 53'30	
evening set	3455 Oct 13 14:08	2°M22'46			3456 Aug 26 03:48	0∘ <u>⊽</u>	
C	3455 Oct 16 05:24	30° ₹ Ω		evening max el	3456 Sep 04 16:11	10° ჲ 53'01	27°26'22
min. Earth dist.	3455 Oct 17 09:56	28° £ 45′27	0.64844 AU	retrograde	3456 Sep 18 08:54	18° ჲ 09'10	
inferior conj	3455 Oct 19 14:51	26° ≙ 19'58	-2°23'38	evening set	3456 Sep 25 13:25	15° ≏ 34'36	
minimum elong	3455 Oct 19 18:50	26° ≙ 08'59	2°22'06	min. Earth dist.	3456 Sep 29 04:46	12° ≏ 29'07	0.63214 AU
morning rise	3455 Oct 26 00:35	20° ≏ 49'07		inferior conj	3456 Oct 01 21:47	9° ≙ 48'29	-3°22'54
asc. node	3455 Oct 26 21:04	20° ₽ 29'22		minimum elong	3456 Oct 02 03:10	9° ॒ 35′08	3°21'11
direct	3455 Oct 28 15:51	20° ♀ 12'32		morning rise	3456 Oct 08 18:19	4° ≏ 34'33	
morning max el	3455 Nov 04 03:40	23° ≏ 40'12	18°01'45	direct	3456 Oct 11 05:01	4° ≏ 06'12	
	3455 Nov 09 05:51	0° M ,		asc. node	3456 Oct 12 18:06	4° ≏ 17'46	
morning set	3455 Nov 21 21:24	20°M23'18		morning max el	3456 Oct 17 20:09	7° Ω 31'57	17°50'37
	3455 Nov 27 16:31	0° ⊼			3456 Nov 01 14:16	0°M	
desc. node	3455 Dec 03 05:53	9° ⊀ 02'40		morning set	3456 Nov 03 04:28	2° M 47'18	
gunariar agni	3455 Dec 05 19:30	13° ₹ 09'47	0°17'20	superior conj	3456 Nov 15 02:33	23°M13'29	0027122
superior conj minimum elong	3455 Dec 05 17:21	13° ₹ ′0947		minimum elong	3456 Nov 15 05:16	23°M24'48	0°27'08
max. Earth dist.	3455 Dec 09 19:54	19° × ⁷ 32'16	1.44930 AU	desc. node	3456 Nov 19 02:56	29°M49'39	0 27 08
max. Earth dist.	3455 Dec 16 12:17	0°る	1.44930710	dese. Hode	3456 Nov 19 05:29	0° √	
evening rise	3455 Dec 22 03:16	8° る 42'43		max. Earth dist.	3456 Nov 21 13:07	3° х¹ 44'38	1.43939 AU
greatest brilliancy	3456 Jan 05 01:54	29° る 56'34	-0.6m	evening rise	3456 Nov 30 12:31	17° ∡ ¹51'31	
· ·	3456 Jan 05 02:50	0°≈		· ·	3456 Dec 08 12:06	8°0	
evening max el	3456 Jan 17 00:19	15° ≈ 43'59	19°54'13	evening max el	3456 Dec 30 00:32	29° ප 16'07	20°59'27
asc. node	3456 Jan 22 20:21	19° ≈ 51'46			3456 Dec 30 18:09	0° ≈	
retrograde	3456 Jan 24 13:39	20° ≈ 07'53		retrograde	3457 Jan 07 11:32	4° ≈ 16'31	
evening set	3456 Jan 28 05:30	18° ≈ 49'38		asc. node	3457 Jan 08 17:23	4° ≈ 08'01	
inferior conj	3456 Feb 02 15:52	12° ≈ 48'57	3°02'52	evening set	3457 Jan 11 12:53	2° ≈ 43'11	
minimum elong	3456 Feb 02 13:29	12° ≈ 56'54	3°02'21		3457 Jan 14 05:55	30°ਸ਼ੑੑੑੑੑ	
min. Earth dist.	3456 Feb 03 14:54	11°≈32'02	0.66961 AU	inferior conj	3457 Jan 16 21:27	26°₹30'59	2°29'44
morning rise	3456 Feb 07 21:14	6°≈35'16		minimum elong	3457 Jan 16 18:56	26° る 39'37	
direct	3456 Feb 13 20:09	3°≈55'38	25015142	min. Earth dist.	3457 Jan 17 07:37	25°る55'57 20°る18'06	0.67646 AU
morning max el desc. node	3456 Feb 25 18:39 3456 Feb 29 05:06	11°≈03'20 14°≈46'25	23 13 42	morning rise direct	3457 Jan 22 00:49 3457 Jan 27 09:15	20 81800 17° 8 56'57	
uese. Houe	3456 Mar 11 21:25	14 ≈ 46 23		morning max el	3457 Feb 07 03:08	17 33 637 24° る 21'03	23°48'38
	3456 Mar 30 17:22	0°Υ		morning max ci	3457 Feb 12 04:31	0°≈	0 ر ۲۵ ر <u>م</u>
morning set	3456 Apr 01 23:44	4° Υ 01'51		desc. node	3457 Feb 15 02:08	0 ∞ 3°≈37'17	
max. Earth dist.	3456 Apr 05 15:45	10° Υ 45'53	1.36485 AU		3457 Mar 05 08:22	0° ∀	
Julia dist.	р. оо толо	1 1000		morning set	3457 Mar 14 14:58	15° ¥ 13'37	
superior conj	3456 Apr 11 18:36	22° Y 33'32	-1°15'55	max. Earth dist.	3457 Mar 18 11:20	21°) 55'37	1.38570 AU
minimum elong	3456 Apr 11 22:31	22° Y 52'58			3457 Mar 22 22:30	0° Υ	
-	3456 Apr 15 11:42	8° 0					
asc. node	3456 Apr 19 19:40	8° 8 47'20		superior conj	3457 Mar 25 19:35	5° Y ′22'31	-1°41'03
evening rise	3456 Apr 20 00:04	9° 8 09'33		minimum elong	3457 Mar 26 00:13	5° Ƴ 44'22	1°40'32
	3456 May 01 10:25	$\Pi^{\circ}0$		evening rise	3457 Apr 03 21:19	22° Y 56'44	

asc. node	3457 Apr 06 16:43	28° Y 23'15		asc. node	3458 Mar 24 13:44	17° Ƴ 38'24	
use. Houe	3457 Apr 07 13:01	0°8		use. Houe	3458 Apr 01 15:27	0°8	
evening max el	3457 Apr 20 06:43	19° 8 26'17	18°50'46	evening max el	3458 Apr 03 13:03	2° 8 04'01	18°19'02
retrograde	3457 Apr 28 13:40	23° 8 29'17		retrograde	3458 Apr 10 18:07	5° 8 39'26	
evening set	3457 Apr 30 17:46	23° 8 13'43		evening set	3458 Apr 13 04:33	5° 8 15'50	
inferior conj	3457 May 08 17:03	18° 8 54'47	1°29'45	inferior conj	3458 Apr 20 08:56	0° 8 36'39	2°41'27
minimum elong	3457 May 08 20:11	18° 8 49'05	1°28'44	minimum elong	3458 Apr 20 12:35	0° 8 28'55	2°40'36
min. Earth dist.	3457 May 11 22:16	16° 8 36'07	0.57085 AU	-	3458 Apr 21 02:08	30° ₹Ƴ	
desc. node	3457 May 14 01:21	15° 8 13'18		min. Earth dist.	3458 Apr 23 19:20	27° Ƴ 43'25	0.59104 AU
morning rise	3457 May 16 19:26	13° 8 47'54		morning rise	3458 Apr 27 17:50	25° Ƴ 00′17	
direct	3457 May 22 04:55	12° 8 37'39		desc. node	3458 Apr 30 22:21	23° Y 40'12	
morning max el	3457 Jun 05 12:53	20° 8 05'39	26°06'43	direct	3458 May 03 23:59	23° Y 14'44	
	3457 Jun 14 00:12	Π $^{\circ}0$			3458 May 17 07:19	0° ႘	
	3457 Jul 01 13:06	0 \circ \odot		morning max el	3458 May 18 09:11	1° 8 01'42	27°15'03
morning set	3457 Jul 03 19:19	4°छ41'47			3458 Jun 08 03:06	$\Pi^{\circ}0$	
asc. node	3457 Jul 03 15:57	4°\$24'00		morning set	3458 Jun 18 04:09	19° Ⅱ 25′00	
				asc. node	3458 Jun 20 13:00	24° Ⅲ 26′28	
superior conj	3457 Jul 10 18:35	19° © 50'44	1°08'36		3458 Jun 23 02:27	0ංම	
minimum elong	3457 Jul 10 16:16	19° © 37'57	1°08'12				
max. Earth dist.	3457 Jul 11 09:30	21° 5 012'46	1.32284 AU	superior conj	3458 Jun 25 06:21	4° 5 945'28	0°47'55
	3457 Jul 15 10:25	$0 {\circ} \Omega$		minimum elong	3458 Jun 25 04:27	4° © 34'55	0°47'33
evening rise	3457 Jul 17 17:54	4° Ω 53'29		max. Earth dist.	3458 Jun 24 21:21	3° © 55'48	1.32062 AU
	3457 Jul 31 04:00	0° m		evening rise	3458 Jul 02 02:29	19° © 38'55	
desc. node	3457 Aug 10 00:41	14° m 28'31			3458 Jul 07 04:18	$0 {\circ} \Omega$	
evening max el	3457 Aug 17 22:29	23° m/22'08	27°06'30		3458 Jul 26 04:08	0° т р	
	3457 Aug 28 02:40	0∘ ⊽		desc. node	3458 Jul 27 21:41	1° m 58'40	
retrograde	3457 Aug 31 19:14	0° ჲ 34'48		evening max el	3458 Jul 30 21:56	5° Mp 04'13	26°13'40
	3457 Sep 04 09:25	30°R, Mp		retrograde	3458 Aug 13 21:21	12° m) 14'05	
evening set	3457 Sep 07 21:17	28° Mp 19'51		evening set	3458 Aug 20 09:00	10° m y 31'01	
min. Earth dist.	3457 Sep 11 12:47	25° Mp 37'18	0.61297 AU	min. Earth dist.	3458 Aug 24 10:47	7° Mp 55'46	
inferior conj	3457 Sep 14 15:52	22° m 53'38		inferior conj	3458 Aug 27 17:36	5° Mp 26'12	
minimum elong	3457 Sep 14 21:35	22° mp 41'07	4°14'45	minimum elong	3458 Aug 27 21:28	5° m) 18'49	4°54'32
morning rise	3457 Sep 21 23:39	18° Mp 00'17		morning rise	3458 Sep 04 12:08	0° Mp 55'45	
direct	3457 Sep 24 08:40	17° m 37'08		direct	3458 Sep 06 22:21	0° My 35'31	10005100
asc. node	3457 Sep 29 15:08	19° m 35'41	1505010.4	morning max el	3458 Sep 14 19:39	4° M) 23'37	18°25'20
morning max el	3457 Oct 01 10:33	21°Mp09'14	17°58'04	asc. node	3458 Sep 16 12:11	6° Mp 10'08	
. ,	3457 Oct 08 03:15	0∘ ⊽		morning set	3458 Sep 30 20:24	29° m 56'39	
morning set	3457 Oct 17 05:56 3457 Oct 24 21:56	16° ≙ 03'34 0° M			3458 Sep 30 21:06	0∘ ⊽	
	343 / Oct 24 21:36	0-116		superior conj	3458 Oct 09 21:34	17° ≏ 06'43	1°26'48
superior conj	3457 Oct 27 12:27	4°M36'08	1°02'53	minimum elong	3458 Oct 10 01:04	17 ≗ 00 43 17° £ 22'51	1°26'28
minimum elong	3457 Oct 27 12:27	4°M54'49	1°02'33	minimum clong	3458 Oct 17 02:32	0°M	1 20 28
max. Earth dist.	3457 Nov 04 01:54	17°M27'50	1.42361 AU	max. Earth dist.	3458 Oct 17 02:32	0°ML27'58	1.40403 AU
desc. node	3457 Nov 05 23:59	20°M37'07	1.42301 AU	evening rise	3458 Oct 21 18:57	7°M55'46	1.40403 AC
evening rise	3457 Nov 10 05:42	27°M25'55		desc. node	3458 Oct 23 21:00	11°M21'12	
e vennig rise	3457 Nov 11 20:48	0° ⊼		dose. Hode	3458 Nov 04 22:25	0°×7	
	3457 Dec 02 06:31	0° ਰ		evening max el	3458 Nov 25 09:52	26° ×7 25'48	23°34'16
evening max el	3457 Dec 12 19:18	12° る 49'45	22°14'28	&	3458 Nov 29 11:02	ნ°0	
retrograde	3457 Dec 22 07:58	18° る 29'51		retrograde	3458 Dec 06 01:31	2°₹43'35	
evening set	3457 Dec 26 20:30	16° る 40'30		evening set	3458 Dec 11 02:44	0°る37'57	
asc. node	3457 Dec 26 14:23	16° る 52'39		C	3458 Dec 11 19:34	30°Ŗ ⋌ ¹	
inferior conj	3458 Jan 01 04:57	10° ප් 20'05	1°48'51	asc. node	3458 Dec 13 11:24	28° ∡ 12'38	
minimum elong	3458 Jan 01 02:47	10° පි 27'36	1°48'04	min. Earth dist.	3458 Dec 16 00:14	24° ₹ 755'11	0.67881 AU
min. Earth dist.	3458 Jan 01 03:31	10° පි 25'02	0.67944 AU	inferior conj	3458 Dec 16 12:29	24° ҂ 13'17	1°01'24
morning rise	3458 Jan 06 08:56	4° る 09'32		minimum elong	3458 Dec 16 11:06	24° ∡ 18′01	1°00'50
direct	3458 Jan 11 02:25	2° る 10'46		morning rise	3458 Dec 21 19:27	18° ₰ 06'50	
morning max el	3458 Jan 20 14:11	7° පි 46'07	22°20'18	direct	3458 Dec 25 22:43	16° ∡ ³30′52	
desc. node	3458 Feb 01 23:10	23° පි 06'25		morning max el	3459 Jan 03 07:06	21° ∡ 120′45	20°58'39
	3458 Feb 06 19:26	0° ≈			3459 Jan 10 13:43	5°0	
morning set	3458 Feb 23 02:26	25° ≈ 04'43		desc. node	3459 Jan 19 20:12	13° る 02'41	
	3458 Feb 26 02:19	0°) €			3459 Jan 31 01:49	0° ≈	
max. Earth dist.	3458 Feb 28 08:17	3°) 45′58	1.40740 AU	morning set	3459 Feb 02 10:27	3° ≈ 40′21	
				max. Earth dist.	3459 Feb 10 11:24	16° ≈ 29'57	1.42706 AU
superior conj	3458 Mar 08 03:12	17°) 19'17					
minimum elong	3458 Mar 08 06:51	17°) ₹35'37	1°59'26	superior conj	3459 Feb 17 12:17	28° ≈ 11'53	
	3458 Mar 15 01:12	0°Υ		minimum elong	3459 Feb 17 12:12	28°≈11'33	2°06'58
evening rise	3458 Mar 18 08:07	6° Y 09'42			3459 Feb 18 13:40	0° ∀	

	2450) 6 01 04 25	100 1/20102			2460 E 1 11 06 00	001/16142	
evening rise	3459 Mar 01 04:27	18°) ₹39'03		evening rise	3460 Feb 11 06:00	0°) 16'42	
_	3459 Mar 07 14:01	0° Υ			3460 Feb 11 02:05	0° ∀	
asc. node	3459 Mar 11 10:44	6° Y 25'34		asc. node	3460 Feb 26 07:45	24°) 36′18	
evening max el	3459 Mar 18 00:07	15° Y 05′25	18°07'06	evening max el	3460 Feb 29 12:52	28°) 22'42	18°14'19
retrograde	3459 Mar 24 14:44	18° Ƴ 28'54			3460 Mar 02 08:53	$0^{\circ}\mathbf{\Upsilon}$	
evening set	3459 Mar 27 07:14	17° Ƴ 55'12		retrograde	3460 Mar 06 23:15	1° Ƴ 48'23	
inferior conj	3459 Apr 02 20:13	12° Ƴ 55'37	3°22'05	evening set	3460 Mar 09 21:29	1° Y 03′20	
minimum elong	3459 Apr 02 22:28	12° Y 50'06	3°21'46		3460 Mar 11 13:32	30° ₽ ₩	
min. Earth dist.	3459 Apr 05 23:36	9° Ƴ 52'33	0.61285 AU	inferior conj	3460 Mar 15 22:58	25°) 44'10	3°37'45
morning rise	3459 Apr 09 11:52	7° Υ '00'21		minimum elong	3460 Mar 15 23:24	25°) 42'59	3°37'44
direct	3459 Apr 16 06:35	4° Υ 41'06		min. Earth dist.	3460 Mar 18 12:45	22° H 54'44	0.63336 AU
desc. node	*	4° Υ 47'50			3460 Mar 22 00:20	19°) 38'34	0.03330 AU
	3459 Apr 17 19:22		27040120	morning rise			
morning max el	3459 Apr 30 11:44	12° Y 37'53	27°48'30	direct	3460 Mar 28 22:07	16° ¥ 56′20	
	3459 May 14 06:31	0°B		desc. node	3460 Apr 03 16:25	18° ∺ 32′20	
	3459 May 31 10:48	Π °0		morning max el	3460 Apr 11 19:03	24°) 53′54	27°44'22
morning set	3459 Jun 02 08:47	3° Ⅱ 53'05			3460 Apr 16 10:37	$0^{\circ}\Upsilon$	
asc. node	3459 Jun 07 10:03	14° Ⅱ 33'56			3460 May 06 16:46	9° 8	
max. Earth dist.	3459 Jun 08 07:37	16° Ⅱ 30′56	1.32241 AU	morning set	3460 May 16 06:56	17° 8 58'41	
				max. Earth dist.	3460 May 21 12:29	28° 8 45'59	1.32851 AU
superior conj	3459 Jun 09 17:01	19° Ⅲ 33'14	0°23'54		3460 May 22 02:26	$\Pi^{\circ}0$	
minimum elong	3459 Jun 09 15:56	19° Ⅲ 27'21	0°23'41		2	-	
minimum ciong	3459 Jun 14 11:36	0°95	0 23 11	superior conj	3460 May 24 00:47	4° ∏ 08'08	0002146
		4°928'53			-	4° ∏ 08'51	
evening rise	3459 Jun 16 13:38			minimum elong	3460 May 24 00:55		0°02'44
	3459 Jun 30 03:07	0 ° Ω		behind sun begin	3460 May 23 19:41	3° Ⅱ 40'45	
evening max el	3459 Jul 12 14:20	16° Ω 00'49	24°53'29	behind sun end	3460 May 24 06:08	4° Ⅱ 36'59	
desc. node	3459 Jul 14 18:40	17° Ω 57'59		asc. node	3460 May 24 07:07	4° Ⅱ 42'15	
retrograde	3459 Jul 26 13:11	23° Ω 04'43		evening rise	3460 May 31 01:27	19° Ⅱ 17'01	
evening set	3459 Jul 31 20:52	22° Ω 00′23			3460 Jun 05 07:25	0 \circ ∞	
min. Earth dist.	3459 Aug 06 01:49	19° Ω 13'34	0.57250 AU	evening max el	3460 Jun 23 03:35	26° © 29'02	23°18'11
inferior conj	3459 Aug 08 23:59	17° Ω 17'43	-5°07'02		3460 Jun 27 09:13	$0^{\circ}\Omega$	
minimum elong	3459 Aug 08 23:07	17° Ω 19'10	5°07'00	desc. node	3460 Jun 30 15:41	1° Ω 52'15	
morning rise	3459 Aug 17 03:54	13° Ω 09'11		retrograde	3460 Jul 06 16:12	3° Ω 14'39	
direct	3459 Aug 19 18:05	12° Ω 50′02		evening set	3460 Jul 10 11:43	2°Ω42'51	
morning max el	3459 Aug 28 20:13	17°Ω05'42	19°13'45	evening sec	3460 Jul 16 15:58	30°Rூ	
•	-	23°Ω46'14	19 13 43	min. Earth dist.		29° © 29'32	0.55704 AU
asc. node	3459 Sep 03 09:15						
	3459 Sep 07 06:48	0° mp		inferior conj	3460 Jul 19 10:25	28°523'10	
morning set	3459 Sep 14 20:00	14° Mp 16'24		minimum elong	3460 Jul 19 03:50	28° © 32'53	4°35'41
	3459 Sep 22 18:18	0∘ ত		morning rise	3460 Jul 27 22:21	24° © 29'44	
				direct	3460 Jul 30 18:54	24° © 09'56	
superior conj	3459 Sep 23 00:28	0° ჲ 30'02	1°40'12	morning max el	3460 Aug 10 09:34	29° © 05'24	20°23'47
minimum elong	3459 Sep 23 02:19	0° ≏ 38'56	1°40'06		3460 Aug 11 08:07	$0 { m ^o} \Omega$	
max. Earth dist.	3459 Sep 29 13:05	12° ≏ 46'54	1.38324 AU	asc. node	3460 Aug 20 06:19	12° Ω 09'12	
evening rise	3459 Oct 03 07:54	19° ≙ 31'39		morning set	3460 Aug 29 01:42	28° Ω 53'41	
_	3459 Oct 09 12:48	0°M		-	3460 Aug 29 14:39	0° m	
desc. node	3459 Oct 10 18:01	1°M58'28			C	•	
	3459 Oct 30 02:20	0° ∡ 7		superior conj	3460 Sep 05 16:08	14° m 30'52	1°44'41
evening max el	3459 Nov 07 22:29	10° ∡ 06′20	24°52'20	minimum elong	3460 Sep 05 16:17	14° m) 31'38	1°44'41
retrograde	3459 Nov 19 15:04	16° ≯ 53'58	21 32 20	max. Earth dist.	3460 Sep 10 19:37	24° m 42'01	1.36364 AU
evening set	3459 Nov 25 06:01	10 ≯ 33 38 14° ₹ 32'58		max. Earth dist.	3460 Sep 13 14:42	0° Ω	1.30304 AU
e			0.67470.411				
min. Earth dist.	3459 Nov 29 19:28	9° × 24'03	0.67479 AU	evening rise	3460 Sep 14 17:57	2° Ω 06'12	
asc. node	3459 Nov 30 08:26	8° ∡ ′41′19 –		desc. node	3460 Sep 26 15:02	22° Ω 23'33	
inferior conj	3459 Nov 30 18:22	8° ₰ 08'27	0°08'31		3460 Oct 01 14:08	0° M	
minimum elong	3459 Nov 30 18:09	8° ≯ 09'10	0°08'24	evening max el	3460 Oct 20 10:55	23°M48'36	26°01'27
transit middle	3459 Nov 30 18:09	8° ₮ 09'10	0°08'24		3460 Oct 28 21:50	0° ⊼	
transit begin	3459 Nov 30 15:47	8° ⊀ 16'58		retrograde	3460 Nov 01 23:41	0° ∡ ¹55'18	
transit end	3459 Nov 30 20:31	8° ∡ 01'22			3460 Nov 05 18:02	30°RM₊	
morning rise	3459 Dec 06 06:25	2° ₹ 08'21		evening set	3460 Nov 08 04:33	28°M21'34	
direct	3459 Dec 09 21:01	0° х 53′21		min. Earth dist.	3460 Nov 12 10:43	23°M48'03	0.66736 AU
morning max el	3459 Dec 17 07:46	5° х 06'34	19°49'04	inferior conj	3460 Nov 13 20:42	22°M01'57	
	3460 Jan 04 12:55	0°る		minimum elong	3460 Nov 13 22:00	21°M57'55	
desc. node	3460 Jan 06 17:15	3°る18'46		asc. node	3460 Nov 16 05:30	19°M11'52	5 -10 07
morning set	3460 Jan 12 06:23	11° る 49'27		morning rise	3460 Nov 19 15:51	16°M10'52	
	3460 Jan 23 21:06	0° ≈		direct	3460 Nov 22 19:41	15°M13'40	
max. Earth dist.	3460 Jan 23 22:02	0° ≈ 03'46	1.44212 AU	morning max el	3460 Nov 29 15:53	19°M01'04	18°54'27
					3460 Dec 08 04:33	0°⊀	
superior conj	3460 Jan 28 19:30	7° ≈ 55'02	-1°57'44	morning set	3460 Dec 21 15:38	20° х 45′50	
minimum elong	3460 Jan 28 13:35	7° ≈ 31'03	1°57'24	desc. node	3460 Dec 23 14:18	23° х 48′38	

max. Earth dist.	3460 Dec 27 13:07 3461 Jan 05 14:46	0°る 14°る13'10	1.45072 AU	morning set desc. node	3461 Dec 02 05:04 3461 Dec 10 11:20	1° 尽 08'23 14° 尽 27'57	
gunariar agni	3461 Ion 07 04:27	16° る 41'22	1920/04	gunorior coni	2461 Dec 17 06:50	250.716!16	0045!15
superior conj minimum elong	3461 Jan 07 04:27 3461 Jan 06 19:17	16°る41'22		superior conj minimum elong	3461 Dec 17 06:50 3461 Dec 17 01:06	25° ₹ 16'16 24° ₹ 53'41	0°44'29
minimum clong	3461 Jan 15 13:51	0°≈	1 28 08	max. Earth dist.	3461 Dec 17 01:00	28° × 33'41	1.45197 AU
evening rise	3461 Jan 22 09:05	0 ~ 10° ≈ 57'21		max. Lattii dist.	3461 Dec 20 07:02	0°る	1.43177 AU
e vennig rise	3461 Feb 03 05:23	0° ∀		evening rise	3462 Jan 02 13:22	20° පි 44'17	
evening max el	3461 Feb 12 00:32	11°) 48′55	18°39'53	<i>y</i>	3462 Jan 08 11:48	0° ≈	
asc. node	3461 Feb 12 04:47	11° ∺ 59'36		greatest brilliancy	3462 Jan 14 01:23	8° ≈ 35'52	-0.7m
retrograde	3461 Feb 18 15:30	15°) 29'18		evening max el	3462 Jan 26 08:47	25°≈18'37	19°22'34
evening set	3461 Feb 21 19:47	14°) € 32'00		asc. node	3462 Jan 30 01:50	28° ≈ 21'39	
inferior conj	3461 Feb 27 13:13	8° 升 54'50	3°34'46	retrograde	3462 Feb 02 12:04	29° ≈ 24'21	
minimum elong	3461 Feb 27 12:08	8° 升 58′07	3°34'41	evening set	3462 Feb 05 23:17	28° ≈ 13′59	
min. Earth dist.	3461 Mar 01 11:19	6°) ₹35'31	0.65061 AU	inferior conj	3462 Feb 11 11:31	22° ≈ 20'54	3°17'44
morning rise	3461 Mar 05 04:01	2°) 43′55		minimum elong	3462 Feb 11 09:27	22° ≈ 27'36	3°17'24
	3461 Mar 10 11:20	30° ₹ ≈		min. Earth dist.	3462 Feb 12 18:30	20° ≈ 40′23	0.66386 AU
direct	3461 Mar 11 20:47	29° ≈ 53'01		morning rise	3462 Feb 16 19:23	16° ≈ 07'34	
	3461 Mar 13 07:08	0° ∀		direct	3462 Feb 23 01:41	13° ≈ 21′03	
desc. node	3461 Mar 21 13:28	4°) €20'54		morning max el	3462 Mar 07 14:30	20° ≈ 47'56	26°01'25
morning max el	3461 Mar 25 04:46	7°) 41′29	27°06'15	desc. node	3462 Mar 08 10:31	21° ≈ 39′23	
	3461 Apr 11 11:33	0° Υ			3462 Mar 15 13:22	0° ∀	
	3461 Apr 29 00:20	0° 8			3462 Apr 04 15:33	0°Υ	
morning set	3461 Apr 29 19:43	1° 8 33'14	1 22012 177	morning set	3462 Apr 12 19:06	14° Υ 24'11	1.05400.444
max. Earth dist.	3461 May 04 08:25	10° 8 32'24	1.33913 AU	max. Earth dist.	3462 Apr 16 16:56	21° Y 48'03	1.35429 AU
	24(1)4 00 02 20	100 4100	0021107		3462 Apr 20 20:41	9° 8	
superior conj minimum elong	3461 May 08 03:38	18° 8 24'08 18° 8 32'36	-0°31'07 0°30'47	aumorior coni	2462 Amr 21 22:01	2° 8 12'53	0950152
asc. node	3461 May 08 05:15 3461 May 11 04:08	24° 8 47'20	0 3047	superior conj minimum elong	3462 Apr 21 23:01 3462 Apr 22 02:10	2° 6 28'53	
asc. noue	3461 May 13 15:02	24 O 47 20 0° Ⅱ		asc. node	3462 Apr 28 01:09	14° 8 44'37	0 39 20
evening rise	3461 May 15 12:07	3° Ⅱ 57'27		evening rise	3462 Apr 29 19:29	18° 8 22'35	
evening rise	3461 May 29 23:17	0°95		evening rise	3462 May 05 16:41	0°Ⅱ	
evening max el	3461 Jun 04 21:09	7° © 00'32	21°43'26	evening max el	3462 May 18 01:12		20°21'26
retrograde	3461 Jun 17 07:58	13°908'54	21 1320	retrograde	3462 May 28 21:26	23° I 19'05	20 21 20
desc. node	3461 Jun 17 12:42	13°508'48		evening set	3462 May 30 21:26	23° I 19'03	
evening set	3461 Jun 19 21:24	12°954'08		desc. node	3462 Jun 04 09:44	21° I I41'23	
inferior conj	3461 Jun 29 06:33	8°952'07	-3°16'44	inferior conj	3462 Jun 09 01:06	19° Ⅱ 10'49	-1°22'02
minimum elong	3461 Jun 28 22:24	9° © 03'29	3°14'18	minimum elong	3462 Jun 08 21:14	19° Ⅱ 16′29	1°20'37
min. Earth dist.	3461 Jun 29 00:05	9° 5 01'08	0.54910 AU	min. Earth dist.	3462 Jun 10 12:23	18° Ⅱ 19'14	0.55057 AU
morning rise	3461 Jul 08 00:39	4° 9 59'03		morning rise	3462 Jun 17 19:54	14° Ⅱ 57'34	
direct	3461 Jul 11 06:21	4° 9 36'05		direct	3462 Jun 21 16:46	14° Ⅱ 25′13	
morning max el	3461 Jul 23 11:18	10° 5 20'11	21°53'08	morning max el	3462 Jul 05 04:25	20° Ⅱ 58'47	23°34'37
	3461 Aug 06 12:38	$0^{\circ}\Omega$			3462 Jul 12 22:05	0 \circ \odot	
asc. node	3461 Aug 07 03:23	1° Ω 07'58		asc. node	3462 Jul 25 00:26	20° © 33'00	
morning set	3461 Aug 13 11:12	13° Ω 42'14		morning set	3462 Jul 28 22:38	28° © 36'05	
					3462 Jul 29 14:30	0 \circ Ω	
superior conj	3461 Aug 20 16:42	28° Ω 58'02					
minimum elong	3461 Aug 20 15:32	28° Ω 51'52	1°41'45	superior conj	3462 Aug 04 23:10	13° Ω 42'12	
P. d. F.	3461 Aug 21 04:32	0° m/y	1 24704 444	minimum elong	3462 Aug 04 21:09		1°32'38
max. Earth dist.	3461 Aug 24 09:29	6° Mp 37'00	1.34704 AU	max. Earth dist.	3462 Aug 07 08:09	18° Ω 46'49	1.33434 AU
evening rise	3461 Aug 28 20:44	15° Mp 28'08		evening rise	3462 Aug 12 11:57	29° Ω 25'46	
desc. node	3461 Sep 05 19:52 3461 Sep 13 12:03	0° ჲ 12° ჲ 30'23			3462 Aug 12 18:48 3462 Aug 29 21:54	0 ்⊽ 0° ™	
desc. Hode	3461 Sep 26 04:20	0°M		desc. node	3462 Aug 31 09:05	0 == 2° £ 11'00	
evening max el	3461 Oct 02 23:28	7°M25'11	26°54'02	evening max el	3462 Sep 15 11:10	20° £ 45'18	27°22'56
retrograde	3461 Oct 16 02:52	14°M41'13	20 34 02	retrograde	3462 Sep 29 00:16	28° £ 03'31	27 22 30
evening set	3461 Oct 10 02:32 3461 Oct 22 20:15	11°M59'50		evening set	3462 Oct 06 02:29	26 ≅ 03 31 25° £ 22'57	
min. Earth dist.	3461 Oct 26 19:35		0.65640 AU	min. Earth dist.	3462 Oct 09 19:54		0.64187 AU
inferior conj	3461 Oct 28 17:27	5°M49'47		inferior conj	3462 Oct 12 06:12	19° £ 26′52	
minimum elong	3461 Oct 28 20:27	5°M41'05		minimum elong	3462 Oct 12 10:51	19° Ω 14'35	
asc. node	3461 Nov 03 02:34	0°M37'53	-	morning rise	3462 Oct 18 20:27	14° Ω 03'09	
morning rise	3461 Nov 03 21:27	0°M10'48		asc. node	3462 Oct 20 23:37	13° Ω 31'23	
Č	3461 Nov 04 06:33	30° ₹ Ω		direct	3462 Oct 21 09:26	13° ჲ 30'31	
direct	3461 Nov 06 16:41	29° ≙ 27'45		morning max el	3462 Oct 27 21:49	16° ≏ 56'12	17°54'55
	3461 Nov 09 03:32	0° M ₊			3462 Nov 06 07:13	0° M	
morning max el	3461 Nov 13 05:28	2°M59'41	18°16'09	morning set	3462 Nov 13 22:37	12°M53'15	
	3461 Dec 01 12:15	0° ∡			3462 Nov 24 03:29	0° ∡ 7	

superior conj	3462 Nov 26 23:41	4° ∡ ³38'08	0°02'30		3463 Oct 10 19:38	0∘ ⊽	
minimum elong	3462 Nov 26 23:59	4° ∡ 739'18	0°02'27	morning max el	3463 Oct 10 19:38	0° ⊆ 42'36	17°51'31
behind sun begin	3462 Nov 26 13:57	3° ∡ 758'37	0 0227	morning set	3463 Oct 27 14:12	25° Ω 41'02	17 3131
behind sun end	3462 Nov 27 10:00	5° × ⁷ 19'54		morning sec	3463 Oct 30 00:12	0°M	
desc. node	3462 Nov 27 08:24	5°×13'25			3103 000 30 00.12	0 110	
max. Earth dist.	3462 Dec 02 04:52	12° × ⁷ 59'51	1.44583 AU	superior conj	3463 Nov 07 18:14	15°M15'34	0°43'53
evening rise	3462 Dec 13 01:34	29° ₹ 56'53		minimum elong	3463 Nov 07 22:00	15° M 31'34	0°43'22
Č	3462 Dec 13 02:23	0°ರ		desc. node	3463 Nov 14 05:24	26°M00'38	
	3463 Jan 02 07:21	0° ≈		max. Earth dist.	3463 Nov 14 19:51	26°M59'23	1.43318 AU
evening max el	3463 Jan 09 12:06	8° ≈ 50'06	20°20'24		3463 Nov 16 16:36	0°⊀	
asc. node	3463 Jan 16 22:52	13° ≈ 28′09		evening rise	3463 Nov 22 12:07	9° √ 11′05	
retrograde	3463 Jan 17 10:10	13° ≈ 29′23			3463 Dec 06 07:41	0°ප	
evening set	3463 Jan 21 05:47	12° ≈ 04'52		evening max el	3463 Dec 23 09:53	22° る 22'32	21°30'27
inferior conj	3463 Jan 26 15:09	5° ≈ 58'40	2°49'53	retrograde	3464 Jan 01 07:41	27° る 40'05	
minimum elong	3463 Jan 26 12:39	6° ≈ 07'09	2°49'15	asc. node	3464 Jan 03 19:54	27° る 05'45	
min. Earth dist.	3463 Jan 27 08:31	4°≈59'44	0.67300 AU	evening set	3464 Jan 05 13:27	26°る00'17	2012110
morning rise	3463 Jan 31 19:19	29° る 44'54		inferior conj	3464 Jan 10 21:47	19° る 44'09	2°13'18
t' .	3463 Jan 31 12:48	30°Rる		minimum elong	3464 Jan 10 19:22	19° る 52'31	2°12'31
direct	3463 Feb 06 12:04	27°る12'33 0°≈		min. Earth dist.	3464 Jan 11 02:58 3464 Jan 16 01:06	19°පි26'12 13°පි31'47	0.67817 AU
morning max el	3463 Feb 13 08:53 3463 Feb 17 23:11	0°≈ 4°≈03'32	24°39'23	morning rise direct	3464 Jan 21 03:10	13° る 31'47	
desc. node	3463 Feb 23 07:33	4 ≈03 32 10°≈02'23	24 39 23	morning max el	3464 Jan 31 08:14	17° る 23'43	23°10'35
desc. Hode	3463 Mar 09 20:37	0° \		desc. node	3464 Feb 10 04:35	17 3 2343	23 10 33
morning set	3463 Mar 25 23:53	26° ₩ 17'22		dese. Hode	3464 Feb 10 19:13	0°≈	
	3463 Mar 28 01:54	0° Υ			3464 Mar 01 22:39	0°) €	
max. Earth dist.	3463 Mar 29 15:19	2° Y 49'33	1.37347 AU	morning set	3464 Mar 06 03:52	6° ¥ 56'08	
				max. Earth dist.	3464 Mar 10 09:59	14°) 10′49	1.39501 AU
superior conj	3463 Apr 05 07:49	15° Y 26′29	-1°27'08				
minimum elong	3463 Apr 05 12:10	15° Ƴ 47'39	1°26'32	superior conj	3464 Mar 18 02:02	27°) (54'49	-1°50'01
	3463 Apr 12 16:02	9° 8		minimum elong	3464 Mar 18 06:31	28° ¥ 15'31	1°49'36
evening rise	3463 Apr 13 21:13	2° 8 25'41			3464 Mar 19 05:01	$0^{\circ}\Upsilon$	
asc. node	3463 Apr 14 22:11	4° 8 29'44		evening rise	3464 Mar 27 14:26	15° Ƴ 59'09	
evening max el	3463 Apr 30 17:24	29° 8 44'46	19°18'03	asc. node	3464 Mar 31 19:12	23° Y 57'34	
	3463 Apr 30 23:45	0°II			3464 Apr 04 03:45	0° 8	
retrograde	3463 May 09 20:45	4° Ⅱ 11'09		evening max el	3464 Apr 12 19:37	12° 8 05'30	18°34'50
evening set	3463 May 11 21:25	3°II58'59	0022142	retrograde	3464 Apr 20 14:01	15° 8 54'20	
inferior conj	3463 May 20 08:15	29° 8 50'32		evening set	3464 Apr 22 20:49	15° 8 35'40	2°04'14
minimum elong	3463 May 20 09:38 3463 May 20 02:32	29° ႘ 48'14 30°ℝ႘	0°33'12	inferior conj minimum elong	3464 Apr 30 11:48 3464 Apr 30 15:29	11° 8 08'41 11° 8 01'31	2°03'10
desc. node	3463 May 22 06:45	28° 8 33'22		min. Earth dist.	3464 May 03 21:18	_	0.57907 AU
min. Earth dist.	3463 May 23 03:09	28° 8 00'14	0.56133 AU	morning rise	3464 May 08 07:00	5° 8 48'07	0.57707710
morning rise	3463 May 28 18:50	25° 8 03'18		desc. node	3464 May 08 03:45	5° 8 52'04	
direct	3463 Jun 02 14:20	24° 8 10'05		direct	3464 May 14 02:18	4° 8 22'57	
	3463 Jun 15 06:12	Π°		morning max el	3464 May 28 11:20	12° 8 00'38	26°39'29
morning max el	3463 Jun 16 18:33	1° Ⅱ 23′09	25°15'17		3464 Jun 11 12:05	Π $^{\circ}0$	
	3463 Jul 06 16:48	0ංම		morning set	3464 Jun 26 20:41	28° Ⅱ 19'11	
asc. node	3463 Jul 11 21:28	10°917'08		asc. node	3464 Jun 27 18:29	0°514'36	
morning set	3463 Jul 13 10:19	13° © 30'03			3464 Jun 27 15:45	0 \circ \odot	
	2462 7 1 26 66 5	200-22	1010144		2464 7 1 02 22 22	120	1000115
superior conj	3463 Jul 20 09:12	28°935'44		superior conj	3464 Jul 03 20:52	13°532'20	1°00'17
minimum elong	3463 Jul 20 06:51	28° © 22'53 0° Ω	1°18'23	minimum elong max. Earth dist.	3464 Jul 03 18:40 3464 Jul 04 01:18	13°520'11	0°59'53 1.32140 AU
max. Earth dist.	3463 Jul 21 00:36 3463 Jul 21 14:24	1° Ω 15'18	1.32582 AU	evening rise	3464 Jul 10 18:20	13°S56'46 28°S29'24	1.32140 AU
evening rise	3463 Jul 27 12:05	13° Ω 49'03	1.32382 AU	evening rise	3464 Jul 11 11:39	28 3 2924	
evening rise	3463 Aug 04 20:51	0° m			3464 Jul 28 04:41	0° my	
desc. node	3463 Aug 18 06:06	21° m) 14'07		desc. node	3464 Aug 04 03:05	9° m) 24'32	
	3463 Aug 25 07:50	0° ⊽		evening max el	3464 Aug 09 23:58	15° Mp 47'12	26°48'03
evening max el	3463 Aug 28 20:09	3° ഫ 36'25	27°22'06	retrograde	3464 Aug 23 22:21	22° m 58'36	
retrograde	3463 Sep 11 15:12	10° ≙ 52'07		evening set	3464 Aug 30 19:40	20° m 56'13	
evening set	3463 Sep 18 19:45	8° ≏ 24'07		min. Earth dist.	3464 Sep 03 14:03		0.60417 AU
min. Earth dist.	3463 Sep 22 10:12	5° ≏ 29'56	0.62414 AU	inferior conj	3464 Sep 06 19:38	15° m 38'49	-4°35'01
inferior conj	3463 Sep 25 08:02	2° ≏ 45'53		minimum elong	3464 Sep 07 00:54	15° m 27'55	4°34'03
minimum elong	3463 Sep 25 13:45	2° ഫ 32'25	3°45'03	morning rise	3464 Sep 14 08:05	10° m 54'44	
	3463 Sep 28 10:58	30°R M)		direct	3464 Sep 16 17:09	10° m 33'08	
morning rise	3463 Oct 02 09:22	27° m/40'32		asc. node	3464 Sep 23 17:42	13° m 50'45	1000=:05
direct	3463 Oct 04 18:51	27° m 14'53		morning max el	3464 Sep 24 02:20	14° Mp 11'11	18°07'08
asc. node	3463 Oct 07 20:40	27° m 58'29			3464 Oct 04 21:33	0∘ ⊽	

morning set	3464 Oct 09 21:48	9° ≏ 14'36		asc. node	3465 Sep 10 14:45	0° m 52'46	
				morning set	3465 Sep 23 16:35	23°M 20'03	
superior conj	3464 Oct 19 14:38	27° ≏ 08'27	1°14'23		3465 Sep 27 02:31	0∘ ত	
minimum elong	3464 Oct 19 18:46	27° ≏ 26'58	1°13'55				
	3464 Oct 21 05:12	0°M,		superior conj	3465 Oct 02 07:58	10° ≏ 02'49	1°33'41
max. Earth dist.	3464 Oct 27 06:00	10°M24'23	1.41561 AU	minimum elong	3465 Oct 02 10:48	10° ≙ 16'12	1°33'28
desc. node	3464 Oct 31 02:25	16° M 46′56		max. Earth dist.	3465 Oct 09 11:48	23° ჲ 07'22	1.39522 AU
evening rise	3464 Nov 01 12:55	19° M 06'44			3465 Oct 13 11:16	0°M₊	
	3464 Nov 08 11:09	0°⊀		evening rise	3465 Oct 13 12:15	0° ™ 04'10	
	3464 Nov 29 19:40	0°ප		desc. node	3465 Oct 17 23:26	7°M28'19	
evening max el	3464 Dec 05 02:47	5° る 57'15	22°48'16		3465 Nov 01 20:52	0° ∡	
retrograde	3464 Dec 15 02:54	11° る 53'32		evening max el	3465 Nov 17 16:22	19° ∡ ³35′16	24°08'09
evening set	3464 Dec 19 20:39	9° る 57'25		retrograde	3465 Nov 28 18:45	26° ∡ ¹06'15	
asc. node	3464 Dec 20 16:55	9° る 11'42		evening set	3465 Dec 04 01:51	23° ∡ 53′46	
inferior conj	3464 Dec 25 05:31	3° ⋜ 34'57	1°29'29	asc. node	3465 Dec 07 13:58	20° ≯ 03'58	
minimum elong	3464 Dec 25 03:38	3° る 41'28	1°28'45	min. Earth dist.	3465 Dec 08 19:47	18° ≯ 25'30	0.67753 AU
min. Earth dist.	3464 Dec 24 23:30	3° る 55'44	0.67963 AU	inferior conj	3465 Dec 09 12:34	17° ∡ 28′50	0°39'34
	3464 Dec 27 22:32	30°₽ ⋌		minimum elong	3465 Dec 09 11:38	17° ∡ ³31'59	0°39'10
morning rise	3464 Dec 30 10:29	27° ₹ 25'51		morning rise	3465 Dec 14 21:27	11° ≯ 25′03	
direct	3465 Jan 03 21:53	25° ҂ ³36'38		direct	3465 Dec 18 19:12	9° ∡ ¹58'16	
	3465 Jan 12 00:08	0°ಕ		morning max el	3465 Dec 26 17:23	14° ₰ ³30'46	20°27'27
morning max el	3465 Jan 12 21:13	0° る 51'27	21°44'19		3466 Jan 07 20:03	0°ප	
desc. node	3465 Jan 27 01:38	18° る 52'35		desc. node	3466 Jan 13 22:41	8° る 57'59	
	3465 Feb 03 15:48	0° ≈		morning set	3466 Jan 24 03:01	24° る 27'58	
morning set	3465 Feb 14 02:53	16° ≈ 11'53			3466 Jan 27 16:10	0° ≈	
max. Earth dist.	3465 Feb 20 09:10	26° ≈ 23'26	1.41622 AU	max. Earth dist.	3466 Feb 02 16:18	9° ≈ 32'48	1.43414 AU
	3465 Feb 22 12:56	0° ℋ			2466 F. 1 . 00 . 22 . 02	10040117	2005121
	2465 F 1 20 00 44	001/2/101	200.412.0	superior conj	3466 Feb 08 23:03	19° ≈ 49'17	
superior conj	3465 Feb 28 00:44	9° ∺ 26'01 9° ∺ 36'41		minimum elong	3466 Feb 08 20:34	19°≈39'00	2°05'18
minimum elong	3465 Feb 28 03:10		2°04'22		3466 Feb 14 23:44	0°) {	
evening rise	3465 Mar 10 19:35	28° ¥ 54'32 0° ⋎		evening rise	3466 Feb 21 08:32	11° 米 03′22 0° Ƴ	
1	3465 Mar 11 09:49			1	3466 Mar 04 12:10	1° Y 34'49	
asc. node	3465 Mar 18 16:13	13° Y 01'42	10011124	asc. node	3466 Mar 05 13:16	8° Υ 04'06	10007140
evening max el	3465 Mar 27 04:27	24° Y 54'48 28° Y 22'57	18°11'34	evening max el	3466 Mar 10 16:38	11° Y 27'03	18°07'49
retrograde	3465 Apr 03 01:47	28° \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		retrograde	3466 Mar 17 04:15	11° γ 2703 10° γ 48'34	
evening set	3465 Apr 05 15:02	23° Y 07'03	3°02'10	evening set	3466 Mar 19 23:14 3466 Mar 26 06:49	5° Υ 40'09	3°31'21
inferior conj	3465 Apr 12 12:22	23 1 07 03 22° Υ 59'51	3°01'33	inferior conj			3°31'13
minimum elong min. Earth dist.	3465 Apr 12 15:33	22° γ 39'31 20° γ '06'46	0.60038 AU	minimum elong	3466 Mar 26 08:18	2°Υ40'40	0.62185 AU
	3465 Apr 15 20:55	17° Υ 21'46	0.00038 AU	min. Earth dist.	3466 Mar 29 04:45		0.02183 AU
morning rise desc. node	3465 Apr 19 13:44 3465 Apr 25 00:47	$17 12140$ $15^{\circ}\text{Y}24'22$		marning rise	3466 Apr 01 05:03	30° ₹ 29° 升 39'36	
	*	15° Y 21'09		morning rise	3466 Apr 01 15:58 3466 Apr 08 12:55	29 X 39 30 27° X 09'23	
direct	3465 Apr 26 02:33 3465 May 10 10:08	13° Y 21'09 23° Y 12'21	27922151	direct desc. node	3466 Apr 11 21:49	27° H 42'08	
morning max el	•	0° 8	27 33 31	desc. node	*	27 π 4208	
	3465 May 16 11:44 3465 Jun 04 15:05	0°II		morning max el	3466 Apr 16 12:50 3466 Apr 22 15:13	5° Υ '07'03	27051110
morning set	3465 Jun 11 03:58	12° Ⅱ 56'40		morning max er	3466 May 11 07:21	0° と	27 31 16
asc. node	3465 Jun 14 15:31	20° Ⅱ 19'31		morning set	3466 May 26 06:12	27° 8 16'22	
max. Earth dist.	3465 Jun 17 13:04	26° I I38'41	1.32095 AU	morning set	3466 May 27 14:08	0°II	
max. Lartii dist.	5405 Juli 17 15.04	20 11 30 41	1.320/3/10	max. Earth dist.	3466 May 31 21:48	9° П 08'05	1.32457 AU
superior conj	3465 Jun 18 08:22	28° Ⅱ 24'48	0°38'07	asc. node	3466 Jun 01 12:34	10° Ⅲ 27'44	1.5275 / AU
minimum elong	3465 Jun 18 06:46	28° I I15'58	0°37'47	use. Houc	5-100 Juli 01 12.54	10 112/44	
minimum ciong	3465 Jun 19 01:40	0°9	0 3/4/	superior conj	3466 Jun 02 18:03	13° Ⅱ 07'46	0°12'53
evening rise	3465 Jun 25 04:17	13°917'52		minimum elong	3466 Jun 02 17:27	13° ∏ 04′28	0°12'45
evening rise	3465 Jul 03 14:08	0°Ω		behind sun begin	3466 Jun 02 14:20	13° ∏ 47'35	0 12 43
desc. node	3465 Jul 22 00:05	26° Ω 19'41		behind sun end	3466 Jun 02 20:33	13° П 21'22	
evening max el	3465 Jul 22 20:26		25°42'18	evening rise	3466 Jun 09 15:59	28° П 07'59	
Johnny man of	3465 Jul 26 03:45	0° m)	20 12 10	0,0111112 1150	3466 Jun 10 13:10	0°95	
retrograde	3465 Aug 05 19:56	4° Mp 16'29			3466 Jun 27 15:56	0°N	
evening set	3465 Aug 11 21:22	2° Mp 49'54		evening max el	3466 Jul 04 10:35	0 δι 7° Ω 49'49	24°13'38
min. Earth dist.	3465 Aug 16 08:34	2 11/49 34 0° 11'59	0.58363 AU	desc. node	3466 Jul 08 21:06	11° Ω 30'06	2T 1330
mm. Darm dist.	3465 Aug 16 15:29	0 III/11 39 30°RΩ	0.50505 AU	retrograde	3466 Jul 18 06:20	14° Ω 48'03	
inferior conj	3465 Aug 19 13:25	30 κ δι 27° Ω 54'47	-5°04'17	evening set	3466 Jul 22 23:14	13° Ω 58'48	
minimum elong	3465 Aug 19 15:37	27° Ω 50'50		min. Earth dist.	3466 Jul 28 21:15	13 δι 38 48	0.56528 AU
morning rise	3465 Aug 27 12:06	27 δι 30 30 23° Ω 33'47	J 0 7 10	inferior conj	3466 Jul 31 11:03	9° Ω 25'58	
direct	3465 Aug 29 23:54	23°Ω14'02		minimum elong	3466 Jul 31 07:36	9° Ω 31'23	
	•	$23^{\circ} \Omega 14^{\circ} 02$ $27^{\circ} \Omega 12' 15$	180/3/16	•		5° Ω 25'30	T 373U
morning max el	3465 Sep 07 08:05 3465 Sep 09 21:53	2/° 3 (12.15	10 43 10	morning rise direct	3466 Aug 08 18:36 3466 Aug 11 11:22	5° Ω 06'15	
	3403 SEP 09 21.33	עוו ט		uncci	5400 Aug 11 11.22	J 6600 13	

morning max el	3466 Aug 21 04:05	9° Ω 36'47	19°41'00	min. Earth dist.	3467 Jul 10 08:19	20° © 56'37	0.55257 AU
asc. node	3466 Aug 28 11:48	18° Ω 49'50	17 .1 00	inferior conj	3467 Jul 11 14:18	20°©13'52	
	3466 Sep 03 20:16	0° m/		minimum elong	3467 Jul 11 06:16	20°\$25'21	4°06'49
morning set	3466 Sep 07 19:03	7° m) 47'42		morning rise	3467 Jul 20 05:14	16°9522'55	
S	1	Î		direct	3467 Jul 23 04:52	16° © 02'27	
superior conj	3466 Sep 15 16:50	23° Mp 43'27	1°43'06	morning max el	3467 Aug 03 12:33	21° © 18'04	20°59'45
minimum elong	3466 Sep 15 17:55	23°m/48'51	1°43'03		3467 Aug 10 18:05	$0^{\circ}\Omega$	
	3466 Sep 18 22:04	0∘ ⊽		asc. node	3467 Aug 15 08:52	7° Ω 29'18	
max. Earth dist.	3466 Sep 21 16:17	5° ≏ 13′20	1.37461 AU	morning set	3467 Aug 23 02:39	22° Ω 30'41	
evening rise	3466 Sep 25 10:36	12° ≏ 05′22			3467 Aug 26 16:56	0° m y	
desc. node	3466 Oct 04 20:27	28° ≏ 00'34					
	3466 Oct 06 02:30	0° M		superior conj	3467 Aug 30 12:45	7° m 57'19	1°44'17
	3466 Oct 28 01:25	0°⊀		minimum elong	3467 Aug 30 12:17	7° m 54'56	1°44'16
evening max el	3466 Oct 31 04:32	3° ∡ 15'52	25°23'18	max. Earth dist.	3467 Sep 04 01:09	17° Mp 04′25	1.35610 AU
retrograde	3466 Nov 12 06:17	10° ∡ 13'15		evening rise	3467 Sep 08 04:22	25° Mp 02'01	
evening set	3466 Nov 18 03:21	7° ∡ ¹46′02			3467 Sep 10 20:59	0。 ⊽	
min. Earth dist.	3466 Nov 22 13:30	2° ≯ 52'18	0.67201 AU	desc. node	3467 Sep 21 17:28	18° ≏ 18'50	
inferior conj	3466 Nov 23 17:09	1° ≯ 22'59			3467 Sep 29 14:54	0°M₊	
minimum elong	3466 Nov 23 17:33	1° ≯ 21'44	0°15'11	evening max el	3467 Oct 13 16:53		26°26'16
transit middle	3466 Nov 23 17:33	1° ≯ 21'44	0°15'11	retrograde	3467 Oct 26 12:54	24°M09'10	
transit begin	3466 Nov 23 16:34	1° ≯ 24'52		evening set	3467 Nov 01 23:17	21°M31'15	
transit end	3466 Nov 23 18:31	1° ≯ 18'36		min. Earth dist.	3467 Nov 06 02:23	17°M13'05	0.66307 AU
asc. node	3466 Nov 24 11:02	0° ≯ 25'33		inferior conj	3467 Nov 07 17:23	15° ™ 14'50	
	3466 Nov 24 19:07	30°RM₊		minimum elong	3467 Nov 07 19:24	15° ™ 08'45	1°13'03
morning rise	3466 Nov 29 08:01	25°M26'40		asc. node	3467 Nov 11 08:05	11°M14'17	
direct	3466 Dec 02 17:44	24°M19'50		morning rise	3467 Nov 13 16:07	9°M28'33	
morning max el	3466 Dec 09 21:29	28°M20'45	19°23'59	direct	3467 Nov 16 15:54	8°M38'00	
	3466 Dec 11 10:43	0° √	0.7	morning max el	3467 Nov 23 08:16	12°M18'01	18°36'06
greatest brilliancy	3466 Dec 23 05:56	16° ₹ 13'13	-0.7m		3467 Dec 06 03:20	0° ⊀ ⁷	
desc. node	3466 Dec 31 19:42	29° ₹ 20'02		morning set	3467 Dec 13 22:03	12° √ 19'25	
	3467 Jan 01 06:03	0°る		desc. node	3467 Dec 18 16:46	19° ₹ 54'17	
morning set max. Earth dist.	3467 Jan 03 01:39 3467 Jan 16 05:52	2°る48'38 23°る23'35	1.44654 AU		3467 Dec 25 02:27	0°₹	
max. Earm dist.	540 / Jan 10 05.52	23 023 33	1.44034 AU	superior conj	3467 Dec 29 23:12	7° る 38'15	1011146
superior conj	3467 Jan 19 19:34	29° る 03'49	1047'54	minimum elong	3467 Dec 29 14:45		1°10'46
minimum elong	3467 Jan 19 11:34	29 さ 0349 28° そ 31'54		max. Earth dist.	3467 Dec 29 14.43	7°る39'33	1.45212 AU
minimum ciong	3467 Jan 20 09:38	0°≈	1 4/1/	max. Larm dist.	3468 Jan 13 03:31	0°≈	1.43212710
evening rise	3467 Feb 03 00:52	22°≈16'50		evening rise	3468 Jan 14 17:55	2° ≈ 32'48	
e vening rise	3467 Feb 07 15:54	0° ∀		greatest brilliancy	3468 Jan 23 07:06	16°≈09'21	-0.8m
asc. node	3467 Feb 20 10:20	19° ∺ 26'39		greatest stillars	3468 Feb 01 13:37	0° ∀	0.011
evening max el	3467 Feb 22 05:09	21°) 25'06	18°23'00	evening max el	3468 Feb 05 15:35		18°56'05
retrograde	3467 Feb 28 16:39	24°) 56'04		asc. node	3468 Feb 07 07:22	6°) €25'19	
evening set	3467 Mar 03 17:17	24°) €06'02		retrograde	3468 Feb 12 11:03	8°) 42′53	
inferior conj	3467 Mar 09 14:57	18°) 38′54	3°38'25	evening set	3468 Feb 15 18:03	7° ¥ 40'19	
minimum elong	3467 Mar 09 14:40	18°) 39′40	3°38'26	inferior conj	3468 Feb 21 08:59	1° ¥ 56'18	3°29'01
min. Earth dist.	3467 Mar 11 22:05	16°) 00′37	0.64108 AU	minimum elong	3468 Feb 21 07:24	2° ₩ 01'13	3°28'50
morning rise	3467 Mar 15 11:19	12°) 30′14			3468 Feb 22 22:10	30° ₹ ≈	
direct	3467 Mar 22 07:38	9°) 42′36		min. Earth dist.	3468 Feb 23 00:37	29° ≈ 52′28	0.65674 AU
desc. node	3467 Mar 29 18:52	12°) 23′12		morning rise	3468 Feb 26 20:23	25° ≈ 43'57	
morning max el	3467 Apr 05 00:07	17° ∺ 38′28	27°32'00	direct	3468 Mar 04 09:17	22° ≈ 53′05	
	3467 Apr 15 08:12	0 ° Υ		desc. node	3468 Mar 15 15:56	28° ≈ 52'59	
	3467 May 04 03:40	9° 8			3468 Mar 16 20:00	0° ∀	
morning set	3467 May 10 00:49	11° 8 10'04		morning max el	3468 Mar 17 09:59	0°) 34'47	26°41'20
max. Earth dist.	3467 May 14 23:20	21° 8 11'44	1.33246 AU		3468 Apr 08 08:11	0 ° Υ	
				morning set	3468 Apr 22 08:27	24° Y 27'32	
superior conj	3467 May 17 24:00	27° 8 35'08			3468 Apr 25 05:20	0°8	
minimum elong	3467 May 18 00:44	27° 8 39'04	0°14'29	max. Earth dist.	3468 Apr 26 14:13	2° 8 42'31	1.34496 AU
behind sun begin	3467 May 17 22:27	27° 8 26'53		_			00.44:
behind sun end	3467 May 18 03:01	27° 8 51'16		superior conj	3468 May 01 00:01	11° 8 40'20	
asc. node	3467 May 19 09:37	0° Ⅱ 35'00		minimum elong	3468 May 01 02:17	11° 8 52'07	0°42'55
	3467 May 19 03:05	0° П		asc. node	3468 May 05 06:40	20° 8 37'09	
evening rise	3467 May 25 03:33	12° I 53'17		evening rise	3468 May 08 13:02	27° 8 27'31	
	3467 Jun 02 20:35	0°95	2202752		3468 May 09 18:34	0° Π	2100707
evening max el	3467 Jun 16 00:33	18°914'57	22~36.53	evening max el	3468 May 27 22:13	28° Ⅱ 57'17	21~06'3/
desc. node	3467 Jun 25 18:06	24°520'45			3468 May 29 01:11	0°55	
retrograde	3467 Jun 29 04:35	24°547'53		retrograde	3468 Jun 08 17:50	4°5944'26	
evening set	3467 Jul 02 09:28	24° © 25'18		evening set	3468 Jun 10 23:11	4° © 32'55	

desc. node	3468 Jun 11 15:08	4° © 25'11		retrograde	3469 May 20 09:44	15° Ⅱ 10'52	
inferior conj	3468 Jun 20 07:59	0°934'55	-2°30'33	evening set	3469 May 22 09:03	15° Ⅱ 00'27	
minimum elong	3468 Jun 20 01:09	0°5544'33	2°28'15	desc. node	3469 May 29 12:09	12° Ⅱ 03'05	
min. Earth dist.	3468 Jun 20 19:58	0°ഇ18'02		inferior conj	3469 May 31 06:27	10° Ⅱ 59'28	-0°31'12
	3468 Jun 21 08:48	30°R Ⅱ		minimum elong	3469 May 31 05:01	11° Ⅱ 01'39	0°30'39
morning rise	3468 Jun 29 03:14	26° Ⅲ 35'15		min. Earth dist.	3469 Jun 02 09:04	9° Ⅱ 42'17	0.55412 AU
direct	3468 Jul 02 14:29	26° Ⅱ 09'15		morning rise	3469 Jun 08 22:55	6° Ⅲ 33'02	
	3468 Jul 12 17:32	0°ಅ		direct	3469 Jun 13 05:04	5° Ⅱ 53'11	
morning max el	3468 Jul 15 10:04	2° © 15'46	22°35'23	morning max el	3469 Jun 27 00:59	12° ∏ 44'41	24°18'20
asc. node	3468 Aug 01 05:55	26°9540'08		Ü	3469 Jul 10 07:08	0°95	
	3468 Aug 02 22:50	$0^{\circ}\Omega$		asc. node	3469 Jul 19 02:57	16°5014'22	
morning set	3468 Aug 06 13:10	7° Ω 22'00		morning set	3469 Jul 22 00:55	22° © 16'49	
S	C			Ü	3469 Jul 25 15:11	$0^{\circ}\Omega$	
superior conj	3468 Aug 13 16:09	22° Ω 32'47	1°38'41				
minimum elong	3468 Aug 13 14:34	22° Ω 24'20	1°38'34	superior conj	3469 Jul 29 00:23	7° Ω 21'50	1°27'25
max. Earth dist.	3468 Aug 16 18:40	29° Ω 04'10	1.34115 AU	minimum elong	3469 Jul 28 22:10	7° Ω 09'48	1°27'10
	3468 Aug 17 05:28	0° m		max. Earth dist.	3469 Jul 30 21:08	11° Ω 23'37	1.33031 AU
evening rise	3468 Aug 21 12:57	8° mp 40'55		evening rise	3469 Aug 05 08:24	22° £ 51′01	
8	3468 Sep 02 08:55	$0 \circ \overline{\mathbf{v}}$		3	3469 Aug 08 23:11	0° m)	
desc. node	3468 Sep 07 14:29	8° £ 15'35		desc. node	3469 Aug 25 11:28	27° mp 41'40	
	3468 Sep 24 17:47	0°M			3469 Aug 27 02:51	0∘ <u>⊽</u>	
evening max el	3468 Sep 25 05:24	0°M28'03	27°09'39	evening max el	3469 Sep 07 16:29	13° ≏ 38'07	27°26'26
retrograde	3468 Oct 08 13:44	7°M45'46		retrograde	3469 Sep 21 08:13	20° £ 54'34	
evening set	3468 Oct 15 11:17	5°M03'49		evening set	3469 Sep 28 12:25	18° £ 18'06	
min. Earth dist.	3468 Oct 19 08:01		0.65064 AU	min. Earth dist.	3469 Oct 02 04:14	15° ≏ 08'24	0.63478 AU
	3468 Oct 20 13:19	30° Ŗ Ω		inferior conj	3469 Oct 04 19:32	12° ≏ 29'23	-3°14'11
inferior conj	3468 Oct 21 11:03	28° ♀ 59'01	-2°14'25	minimum elong	3469 Oct 05 00:45	12° £ 16'13	
minimum elong	3468 Oct 21 14:47	28° ≏ 48'35		morning rise	3469 Oct 11 14:25	7° £ 12'48	
morning rise	3468 Oct 27 19:15	23° £ 25'47		direct	3469 Oct 14 01:41	6° £ 43'23	
asc. node	3468 Oct 28 05:07	23° ₽ 15'02		asc. node	3469 Oct 15 02:09	6° ≏ 48'31	
direct	3468 Oct 30 11:28	22° £ 47'37		morning max el	3469 Oct 20 15:47	10° ≏ 08'44	17°51'09
morning max el	3468 Nov 05 23:18	26° £ 16′08	18°04'54		3469 Nov 02 23:05	0°M	
5 5	3468 Nov 09 04:16	0°M		morning set	3469 Nov 06 03:43	5°M32'52	
morning set	3468 Nov 23 24:00	23°M18'44		5 5			
8							
	3468 Nov 28 01:14	0° ∡ ¹		superior conj	3469 Nov 18 08:32	26°¶L18'31	0°21'15
desc. node	3468 Nov 28 01:14 3468 Dec 04 13:48	0° ⋪ 10° ⋪36'16		superior conj minimum elong	3469 Nov 18 08:32 3469 Nov 18 10:44	26°M18'31 26°M27'36	0°21'15 0°20'56
desc. node				superior conj minimum elong	3469 Nov 18 10:44		
			-0°24'45			26°M27'36	
desc. node superior conj minimum elong	3468 Dec 04 13:48	10° ∡ ³36′16		minimum elong	3469 Nov 18 10:44 3469 Nov 20 14:31	26°M27'36 0°⊀ 1°⊀22'33	
superior conj	3468 Dec 04 13:48 3468 Dec 08 05:27	10° ₹36'16 16° ₹26'42		minimum elong desc. node max. Earth dist.	3469 Nov 18 10:44 3469 Nov 20 14:31 3469 Nov 21 10:48	26°M27'36 0°⊀ 1°⊀22'33	0°20'56
superior conj minimum elong	3468 Dec 04 13:48 3468 Dec 08 05:27 3468 Dec 08 02:21	10° ₹36'16 16° ₹26'42 16° ₹14'22	0°24'19	minimum elong desc. node	3469 Nov 18 10:44 3469 Nov 20 14:31 3469 Nov 21 10:48 3469 Nov 24 12:37	26°M.27'36 0° ♣7 1° ♣722'33 6° ♣720'02	0°20'56
superior conj minimum elong max. Earth dist.	3468 Dec 04 13:48 3468 Dec 08 05:27 3468 Dec 08 02:21 3468 Dec 11 18:48 3468 Dec 16 20:11	10° ₹ 36'16 16° ₹ 26'42 16° ₹ 14'22 22° ₹ 04'22	0°24'19	minimum elong desc. node max. Earth dist.	3469 Nov 18 10:44 3469 Nov 20 14:31 3469 Nov 21 10:48 3469 Nov 24 12:37 3469 Dec 03 23:23 3469 Dec 09 18:29	26°M.27'36 0° ₹ 1° ₹ 22'33 6° ₹ 20'02 21° ₹ 09'17	0°20'56
superior conj minimum elong	3468 Dec 04 13:48 3468 Dec 08 05:27 3468 Dec 08 02:21 3468 Dec 11 18:48	10°♂36'16 16°♂26'42 16°♂14'22 22°♂04'22 0°♂	0°24'19	minimum elong desc. node max. Earth dist. evening rise	3469 Nov 18 10:44 3469 Nov 20 14:31 3469 Nov 21 10:48 3469 Nov 24 12:37 3469 Dec 03 23:23	26°M27'36 0° 차 1°차22'33 6°차20'02 21°차09'17 0°중	0°20'56
superior conj minimum elong max. Earth dist.	3468 Dec 04 13:48 3468 Dec 08 05:27 3468 Dec 08 02:21 3468 Dec 11 18:48 3468 Dec 16 20:11 3468 Dec 24 13:56	10°ズ36'16 16°ズ26'42 16°ズ14'22 22°ズ04'22 0°उ 12°उ01'00	0°24'19	minimum elong desc. node max. Earth dist. evening rise evening max el	3469 Nov 18 10:44 3469 Nov 20 14:31 3469 Nov 21 10:48 3469 Nov 24 12:37 3469 Dec 03 23:23 3469 Dec 09 18:29 3469 Dec 31 04:21	26°M27'36 0°\$\frac{1}{2}\cdot 22'33 6°\$\frac{2}{2}\cdot 20'02 21°\$\frac{1}{2}\cdot 9'17 0°\$\tag{0}\$	0°20'56 1.44126 AU
superior conj minimum elong max. Earth dist. evening rise greatest brilliancy	3468 Dec 04 13:48 3468 Dec 08 05:27 3468 Dec 08 02:21 3468 Dec 11 18:48 3468 Dec 16 20:11 3468 Dec 24 13:56 3469 Jan 05 07:21	10°♂36'16 16°♂26'42 16°♂14'22 22°♂04'22 0°♂ 12°♂01'00 0°≈	0°24'19 1.45027 AU	minimum elong desc. node max. Earth dist. evening rise	3469 Nov 18 10:44 3469 Nov 20 14:31 3469 Nov 21 10:48 3469 Nov 24 12:37 3469 Dec 03 23:23 3469 Dec 09 18:29 3469 Dec 31 04:21 3470 Jan 01 22:55	26°M27'36 0°♂ 1°♂22'33 6°♂20'02 21°♂09'17 0°♂ 0°≈ 1°≈55'13	0°20'56 1.44126 AU
superior conj minimum elong max. Earth dist. evening rise	3468 Dec 04 13:48 3468 Dec 08 05:27 3468 Dec 08 02:21 3468 Dec 11 18:48 3468 Dec 16 20:11 3468 Dec 24 13:56 3469 Jan 05 07:21 3469 Jan 06 23:07	10° 🗷 36'16 16° 🗷 26'42 16° 🗷 14'22 22° 🗷 04'22 0° 云 12° 云 01'00 0° ≈ 2° ≈ 29'10	0°24'19 1.45027 AU -0.7m	minimum elong desc. node max. Earth dist. evening rise evening max el retrograde asc. node	3469 Nov 18 10:44 3469 Nov 20 14:31 3469 Nov 21 10:48 3469 Nov 24 12:37 3469 Dec 03 23:23 3469 Dec 09 18:29 3469 Dec 31 04:21 3470 Jan 01 22:55 3470 Jan 10 06:22 3470 Jan 11 01:24	26°M27'36 0°♂ 1°♂22'33 6°♂20'02 21°♂09'17 0°♂ 0°≈ 1°≈55'13 6°≈50'00	0°20'56 1.44126 AU
superior conj minimum elong max. Earth dist. evening rise greatest brilliancy evening max el	3468 Dec 04 13:48 3468 Dec 08 05:27 3468 Dec 08 02:21 3468 Dec 11 18:48 3468 Dec 16 20:11 3468 Dec 24 13:56 3469 Jan 05 07:21 3469 Jan 06 23:07 3469 Jan 18 21:56	10° 🗷 36'16 16° 🗷 26'42 16° 🗷 14'22 22° 🗷 04'22 0° 石 12° 石 01'00 0° 会 2° 会 29'10 18° 会 23'30	0°24'19 1.45027 AU -0.7m	minimum elong desc. node max. Earth dist. evening rise evening max el retrograde	3469 Nov 18 10:44 3469 Nov 20 14:31 3469 Nov 21 10:48 3469 Nov 24 12:37 3469 Dec 03 23:23 3469 Dec 09 18:29 3469 Dec 31 04:21 3470 Jan 01 22:55 3470 Jan 10 06:22	26°M27'36 0° ₹ 1° ₹22'33 6° ₹20'02 21° ₹09'17 0° ₹ 0° ≈ 1° ≈55'13 6° ≈50'00 6° ≈46'32	0°20'56 1.44126 AU
superior conj minimum elong max. Earth dist. evening rise greatest brilliancy evening max el asc. node	3468 Dec 04 13:48 3468 Dec 08 05:27 3468 Dec 08 02:21 3468 Dec 11 18:48 3468 Dec 16 20:11 3468 Dec 24 13:56 3469 Jan 05 07:21 3469 Jan 06 23:07 3469 Jan 18 21:56 3469 Jan 24 04:23	10° ₹36'16 16° ₹26'42 16° ₹14'22 22° ₹04'22 0° ₹ 12° ₹01'00 0° ≈ 2° ≈29'10 18° ≈23'30 22° ≈16'49	0°24'19 1.45027 AU -0.7m	minimum elong desc. node max. Earth dist. evening rise evening max el retrograde asc. node	3469 Nov 18 10:44 3469 Nov 20 14:31 3469 Nov 21 10:48 3469 Nov 24 12:37 3469 Dec 03 23:23 3469 Dec 09 18:29 3469 Dec 31 04:21 3470 Jan 01 22:55 3470 Jan 10 06:22 3470 Jan 11 01:24 3470 Jan 14 06:13	26°M27'36 0° ₹ 1° ₹22'33 6° ₹20'02 21° ₹09'17 0° ₹ 0° ≈ 1° ≈55'13 6° ≈50'00 6° ≈46'32 5° ≈18'53	0°20'56 1.44126 AU
superior conj minimum elong max. Earth dist. evening rise greatest brilliancy evening max el asc. node retrograde	3468 Dec 04 13:48 3468 Dec 08 05:27 3468 Dec 08 02:21 3468 Dec 11 18:48 3468 Dec 16 20:11 3468 Dec 24 13:56 3469 Jan 05 07:21 3469 Jan 06 23:07 3469 Jan 18 21:56 3469 Jan 24 04:23 3469 Jan 26 08:24	10° ₹36'16 16° ₹26'42 16° ₹14'22 22° ₹04'22 0° ♂ 12° ♂01'00 0° ≈ 2° ≈29'10 18° ≈23'30 22° ≈16'49 22° ≈42'16	0°24'19 1.45027 AU -0.7m	minimum elong desc. node max. Earth dist. evening rise evening max el retrograde asc. node evening set inferior conj	3469 Nov 18 10:44 3469 Nov 20 14:31 3469 Nov 21 10:48 3469 Nov 24 12:37 3469 Dec 03 23:23 3469 Dec 09 18:29 3469 Dec 31 04:21 3470 Jan 01 22:55 3470 Jan 10 06:22 3470 Jan 11 01:24 3470 Jan 14 06:13 3470 Jan 18 23:44	26°M27'36 0°ズ 1°ズ22'33 6°ズ20'02 21°ズ09'17 0°运 0°≈ 1°≈55'13 6°≈50'00 6°≈46'32 5°≈18'53 30°Rご	0°20'56 1.44126 AU 20°48'59
superior conj minimum elong max. Earth dist. evening rise greatest brilliancy evening max el asc. node retrograde evening set inferior conj	3468 Dec 04 13:48 3468 Dec 08 05:27 3468 Dec 08 02:21 3468 Dec 11 18:48 3468 Dec 16 20:11 3468 Dec 24 13:56 3469 Jan 05 07:21 3469 Jan 06 23:07 3469 Jan 18 21:56 3469 Jan 24 04:23 3469 Jan 26 08:24 3469 Jan 29 23:02	10° 🗷 36'16 16° 🗷 26'42 16° 🗷 14'22 22° 🗷 04'22 0° 🛪 12° 🛪 01'00 0° ≈ 2° ≈ 29'10 18° ≈ 23'30 22° ≈ 16'49 22° ≈ 42'16 21° ≈ 26'02	0°24'19 1.45027 AU -0.7m 19°45'34	minimum elong desc. node max. Earth dist. evening rise evening max el retrograde asc. node evening set	3469 Nov 18 10:44 3469 Nov 20 14:31 3469 Nov 21 10:48 3469 Nov 24 12:37 3469 Dec 03 23:23 3469 Dec 09 18:29 3469 Dec 31 04:21 3470 Jan 01 22:55 3470 Jan 10 06:22 3470 Jan 11 01:24 3470 Jan 14 06:13 3470 Jan 18 23:44 3470 Jan 19 14:55	26°M27'36 0° ₹ 1° ₹22'33 6° ₹20'02 21° ₹09'17 0° ₹ 0° ≈ 1° ≈55'13 6° ≈50'00 6° ≈46'32 5° ≈18'53 30° ₹₹ 29° ₹08'05	0°20'56 1.44126 AU 20°48'59 2°35'20
superior conj minimum elong max. Earth dist. evening rise greatest brilliancy evening max el asc. node retrograde evening set	3468 Dec 04 13:48 3468 Dec 08 05:27 3468 Dec 08 02:21 3468 Dec 11 18:48 3468 Dec 16 20:11 3468 Dec 24 13:56 3469 Jan 05 07:21 3469 Jan 06 23:07 3469 Jan 18 21:56 3469 Jan 24 04:23 3469 Jan 26 08:24 3469 Jan 29 23:02 3469 Feb 04 09:48	10° 🗷 36'16 16° 🗷 26'42 16° 🗷 14'22 22° 🗷 04'22 0° 🛪 12° 🛪 01'00 0° ≈ 2° ≈ 29'10 18° ≈ 23'30 22° ≈ 16'49 22° ≈ 42'16 21° ≈ 26'02 15° ≈ 27'18	0°24'19 1.45027 AU -0.7m 19°45'34	minimum elong desc. node max. Earth dist. evening rise evening max el retrograde asc. node evening set inferior conj minimum elong	3469 Nov 18 10:44 3469 Nov 20 14:31 3469 Nov 21 10:48 3469 Nov 24 12:37 3469 Dec 03 23:23 3469 Dec 09 18:29 3469 Dec 31 04:21 3470 Jan 01 22:55 3470 Jan 10 06:22 3470 Jan 11 01:24 3470 Jan 18 23:44 3470 Jan 19 14:55 3470 Jan 19 12:24	26°M27'36 0°ズ 1°ズ22'33 6°ズ20'02 21°ズ09'17 0°उ 0°≈ 1°≈55'13 6°≈50'00 6°≈46'32 5°≈18'53 30°Rउ 29°308'05 29°316'44	0°20'56 1.44126 AU 20°48'59 2°35'20 2°34'36
superior conj minimum elong max. Earth dist. evening rise greatest brilliancy evening max el asc. node retrograde evening set inferior conj minimum elong	3468 Dec 04 13:48 3468 Dec 08 05:27 3468 Dec 08 02:21 3468 Dec 11 18:48 3468 Dec 16 20:11 3468 Dec 24 13:56 3469 Jan 05 07:21 3469 Jan 06 23:07 3469 Jan 18 21:56 3469 Jan 24 04:23 3469 Jan 26 08:24 3469 Jan 29 23:02 3469 Feb 04 09:48 3469 Feb 04 07:30	10° 🗷 36'16 16° 🗷 26'42 16° 🗷 14'22 22° 🗷 04'22 0° उ 12° उ 01'00 0° ≈ 2° ≈ 29'10 18° ≈ 23'30 22° ≈ 16'49 22° ≈ 42'16 21° ≈ 26'02 15° ≈ 27'18 15° ≈ 34'58	0°24'19 1.45027 AU -0.7m 19°45'34 3°07'06 3°06'37	minimum elong desc. node max. Earth dist. evening rise evening max el retrograde asc. node evening set inferior conj minimum elong min. Earth dist.	3469 Nov 18 10:44 3469 Nov 20 14:31 3469 Nov 21 10:48 3469 Nov 24 12:37 3469 Dec 03 23:23 3469 Dec 09 18:29 3469 Dec 31 04:21 3470 Jan 01 22:55 3470 Jan 10 06:22 3470 Jan 11 01:24 3470 Jan 18 23:44 3470 Jan 19 14:55 3470 Jan 19 12:24 3470 Jan 19 02:53	26°M27'36 0°ズ 1°ズ22'33 6°ズ20'02 21°ズ09'17 0°उ 0°≈ 1°≈55'13 6°≈50'00 6°≈46'32 5°≈18'53 30°Rउ 29°36'05'05	0°20'56 1.44126 AU 20°48'59 2°35'20 2°34'36
superior conj minimum elong max. Earth dist. evening rise greatest brilliancy evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist.	3468 Dec 04 13:48 3468 Dec 08 05:27 3468 Dec 08 02:21 3468 Dec 11 18:48 3468 Dec 16 20:11 3468 Dec 24 13:56 3469 Jan 05 07:21 3469 Jan 06 23:07 3469 Jan 18 21:56 3469 Jan 24 04:23 3469 Jan 29 23:02 3469 Feb 04 09:48 3469 Feb 04 07:30 3469 Feb 05 10:52	10° ₹36'16 16° ₹26'42 16° ₹14'22 22° ₹04'22 0° ₹ 12° ₹01'00 0° ≈ 2° ≈29'10 18° ≈23'30 22° ≈16'49 22° ≈42'16 21° ≈26'02 15° ≈27'18 15° ≈34'58 14° ≈04'15	0°24'19 1.45027 AU -0.7m 19°45'34 3°07'06 3°06'37	minimum elong desc. node max. Earth dist. evening rise evening max el retrograde asc. node evening set inferior conj minimum elong min. Earth dist. morning rise direct	3469 Nov 18 10:44 3469 Nov 20 14:31 3469 Nov 21 10:48 3469 Nov 24 12:37 3469 Dec 03 23:23 3469 Dec 09 18:29 3469 Dec 31 04:21 3470 Jan 01 22:55 3470 Jan 10 06:22 3470 Jan 11 01:24 3470 Jan 18 23:44 3470 Jan 19 14:55 3470 Jan 19 12:24 3470 Jan 19 12:24 3470 Jan 20 02:53 3470 Jan 24 18:25	26°M27'36 0°ズ 1°ズ22'33 6°ズ20'02 21°ズ09'17 0°उ 0°≈ 1°≈55'13 6°≈50'00 6°≈46'32 5°≈18'53 30°Rउ 29°♂08'05 29°♂16'44 28°♂27'01 22°♂54'59	0°20'56 1.44126 AU 20°48'59 2°35'20 2°34'36
superior conj minimum elong max. Earth dist. evening rise greatest brilliancy evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise	3468 Dec 04 13:48 3468 Dec 08 05:27 3468 Dec 08 02:21 3468 Dec 11 18:48 3468 Dec 16 20:11 3468 Dec 24 13:56 3469 Jan 05 07:21 3469 Jan 06 23:07 3469 Jan 18 21:56 3469 Jan 24 04:23 3469 Jan 26 08:24 3469 Jan 29 23:02 3469 Feb 04 09:48 3469 Feb 04 07:30 3469 Feb 05 10:52 3469 Feb 09 15:44	10° ₹36'16 16° ₹26'42 16° ₹14'22 22° ₹04'22 0° ₹ 12° ₹01'00 0° ≈ 2° ≈29'10 18° ≈23'30 22° ≈16'49 22° ≈42'16 21° ≈26'02 15° ≈27'18 15° ≈34'58 14° ≈04'15 9° ≈13'45	0°24'19 1.45027 AU -0.7m 19°45'34 3°07'06 3°06'37	minimum elong desc. node max. Earth dist. evening rise evening max el retrograde asc. node evening set inferior conj minimum elong min. Earth dist. morning rise	3469 Nov 18 10:44 3469 Nov 20 14:31 3469 Nov 21 10:48 3469 Nov 24 12:37 3469 Dec 03 23:23 3469 Dec 09 18:29 3469 Dec 31 04:21 3470 Jan 10 06:22 3470 Jan 11 01:24 3470 Jan 14 06:13 3470 Jan 18 23:44 3470 Jan 19 14:55 3470 Jan 19 12:24 3470 Jan 20 02:53 3470 Jan 24 18:25 3470 Jan 30 05:01	26°M27'36 0°ズ 1°ズ22'33 6°ズ20'02 21°ズ09'17 0°उ 0°≈ 1°≈55'13 6°≈50'00 6°≈46'32 5°≈18'53 30°Rउ 29°308'05 29°316'44 28°327'01 22°354'59 20°330'53	0°20'56 1.44126 AU 20°48'59 2°35'20 2°34'36 0.67570 AU
superior conj minimum elong max. Earth dist. evening rise greatest brilliancy evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct	3468 Dec 04 13:48 3468 Dec 08 05:27 3468 Dec 08 02:21 3468 Dec 11 18:48 3468 Dec 16 20:11 3468 Dec 24 13:56 3469 Jan 05 07:21 3469 Jan 06 23:07 3469 Jan 18 21:56 3469 Jan 24 04:23 3469 Jan 26 08:24 3469 Jan 29 23:02 3469 Feb 04 09:48 3469 Feb 04 07:30 3469 Feb 05 10:52 3469 Feb 09 15:44 3469 Feb 15 16:41	10° 🗷 36'16 16° 🗷 26'42 16° 🗷 14'22 22° 🗷 04'22 0° 📆 12° 📆 01'00 0° 🕿 2° ≈ 29'10 18° ≈ 23'30 22° ≈ 16'49 22° ≈ 42'16 21° ≈ 26'02 15° ≈ 27'18 15° ≈ 34'58 14° ≈ 04'15 9° ≈ 13'45 6° ≈ 32'04	0°24'19 1.45027 AU -0.7m 19°45'34 3°07'06 3°06'37 0.66827 AU	minimum elong desc. node max. Earth dist. evening rise evening max el retrograde asc. node evening set inferior conj minimum elong min. Earth dist. morning rise direct	3469 Nov 18 10:44 3469 Nov 20 14:31 3469 Nov 21 10:48 3469 Nov 24 12:37 3469 Dec 03 23:23 3469 Dec 09 18:29 3469 Dec 31 04:21 3470 Jan 01 22:55 3470 Jan 11 01:24 3470 Jan 14 06:13 3470 Jan 18 23:44 3470 Jan 19 14:55 3470 Jan 19 12:24 3470 Jan 20 02:53 3470 Jan 24 18:25 3470 Jan 30 05:01 3470 Feb 10 03:27	26°M27'36 0°ズ 1°ズ22'33 6°ズ20'02 21°ズ09'17 0°उ 0°≈ 1°≈55'13 6°≈50'00 6°≈46'32 5°≈18'53 30°Rउ 29°308'05 29°316'44 28°327'01 22°354'59 20°330'53 27°302'03	0°20'56 1.44126 AU 20°48'59 2°35'20 2°34'36 0.67570 AU
superior conj minimum elong max. Earth dist. evening rise greatest brilliancy evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el	3468 Dec 04 13:48 3468 Dec 08 05:27 3468 Dec 08 02:21 3468 Dec 11 18:48 3468 Dec 16 20:11 3468 Dec 24 13:56 3469 Jan 05 07:21 3469 Jan 06 23:07 3469 Jan 18 21:56 3469 Jan 24 04:23 3469 Jan 26 08:24 3469 Jan 29 23:02 3469 Feb 04 09:48 3469 Feb 04 07:30 3469 Feb 05 10:52 3469 Feb 09 15:44 3469 Feb 15 16:41 3469 Feb 27 19:00	10° 🗷 36'16 16° 🗷 26'42 16° 🗷 14'22 22° 🗷 04'22 0° 🛪 12° 🛪 01'00 0° ≈ 2° ≈ 29'10 18° ≈ 23'30 22° ≈ 16'49 22° ≈ 42'16 21° ≈ 26'02 15° ≈ 34'58 14° ≈ 04'15 9° ≈ 13'45 6° ≈ 32'04 13° ≈ 44'56	0°24'19 1.45027 AU -0.7m 19°45'34 3°07'06 3°06'37 0.66827 AU	minimum elong desc. node max. Earth dist. evening rise evening max el retrograde asc. node evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el	3469 Nov 18 10:44 3469 Nov 20 14:31 3469 Nov 21 10:48 3469 Nov 24 12:37 3469 Dec 03 23:23 3469 Dec 09 18:29 3469 Dec 31 04:21 3470 Jan 10 06:22 3470 Jan 11 01:24 3470 Jan 14 06:13 3470 Jan 19 14:55 3470 Jan 19 12:24 3470 Jan 19 12:24 3470 Jan 20 02:53 3470 Jan 24 18:25 3470 Jan 30 05:01 3470 Feb 10 03:27 3470 Feb 12 21:52	26°M27'36 0°ズ 1°ズ22'33 6°ズ20'02 21°ズ09'17 0°उ 0°≈ 1°≈55'13 6°≈50'00 6°≈46'32 5°≈18'53 30°Rउ 29°308'05 29°316'44 28°327'01 22°354'59 20°330'53 27°302'03 0°≈	0°20'56 1.44126 AU 20°48'59 2°35'20 2°34'36 0.67570 AU
superior conj minimum elong max. Earth dist. evening rise greatest brilliancy evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el	3468 Dec 04 13:48 3468 Dec 08 05:27 3468 Dec 08 02:21 3468 Dec 11 18:48 3468 Dec 16 20:11 3468 Dec 24 13:56 3469 Jan 05 07:21 3469 Jan 06 23:07 3469 Jan 18 21:56 3469 Jan 24 04:23 3469 Jan 26 08:24 3469 Jan 29 23:02 3469 Feb 04 09:48 3469 Feb 05 10:52 3469 Feb 09 15:44 3469 Feb 15 16:41 3469 Feb 27 19:00 3469 Mar 02 12:59	10° 🗷 36'16 16° 🗷 26'42 16° 🗷 14'22 22° 🗷 04'22 0° 🛪 12° 🛪 01'00 0° ≈ 2° ≈ 29'10 18° ≈ 23'30 22° ≈ 16'49 22° ≈ 42'16 21° ≈ 26'02 15° ≈ 34'58 14° ≈ 04'15 9° ≈ 13'45 6° ≈ 32'04 13° ≈ 44'56 16° ≈ 41'15	0°24'19 1.45027 AU -0.7m 19°45'34 3°07'06 3°06'37 0.66827 AU	minimum elong desc. node max. Earth dist. evening rise evening max el retrograde asc. node evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el	3469 Nov 18 10:44 3469 Nov 20 14:31 3469 Nov 21 10:48 3469 Nov 24 12:37 3469 Dec 03 23:23 3469 Dec 09 18:29 3469 Dec 31 04:21 3470 Jan 10 06:22 3470 Jan 11 01:24 3470 Jan 14 06:13 3470 Jan 18 23:44 3470 Jan 19 14:55 3470 Jan 19 12:24 3470 Jan 20 02:53 3470 Jan 20 02:53 3470 Jan 30 05:01 3470 Feb 10 03:27 3470 Feb 12 21:52 3470 Feb 17 10:02	26°M27'36 0°ズ 1°ズ22'33 6°ズ20'02 21°ズ09'17 0°उ 0°≈ 1°≈55'13 6°≈50'00 6°≈46'32 5°≈18'53 30°Rउ 29°308'05 29°316'44 28°327'01 22°354'59 20°330'53 27°302'03 0°≈ 5°≈25'11	0°20'56 1.44126 AU 20°48'59 2°35'20 2°34'36 0.67570 AU
superior conj minimum elong max. Earth dist. evening rise greatest brilliancy evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el	3468 Dec 04 13:48 3468 Dec 08 05:27 3468 Dec 08 02:21 3468 Dec 11 18:48 3468 Dec 16 20:11 3468 Dec 24 13:56 3469 Jan 05 07:21 3469 Jan 06 23:07 3469 Jan 18 21:56 3469 Jan 24 04:23 3469 Jan 26 08:24 3469 Jan 29 23:02 3469 Feb 04 09:48 3469 Feb 04 07:30 3469 Feb 05 10:52 3469 Feb 07 10:52 3469 Feb 15 16:41 3469 Feb 27 19:00 3469 Mar 02 12:59 3469 Mar 12 23:58	10° 🗷 36'16 16° 🗷 26'42 16° 🗷 14'22 22° 🗷 04'22 0° 🛪 12° 🛪 01'00 0° ≈ 2° ≈ 29'10 18° ≈ 23'30 22° ≈ 16'49 22° ≈ 42'16 21° ≈ 26'02 15° ≈ 34'58 14° ≈ 04'15 9° ≈ 13'45 6° ≈ 32'04 13° ≈ 44'56 16° ≈ 41'15 0° 🛠	0°24'19 1.45027 AU -0.7m 19°45'34 3°07'06 3°06'37 0.66827 AU	minimum elong desc. node max. Earth dist. 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	3469 Nov 18 10:44 3469 Nov 20 14:31 3469 Nov 21 10:48 3469 Nov 24 12:37 3469 Dec 03 23:23 3469 Dec 09 18:29 3469 Dec 31 04:21 3470 Jan 10 06:22 3470 Jan 11 01:24 3470 Jan 14 06:13 3470 Jan 18 23:44 3470 Jan 19 14:55 3470 Jan 19 12:24 3470 Jan 19 12:24 3470 Jan 20 02:53 3470 Jan 20 02:53 3470 Jan 30 05:01 3470 Feb 10 03:27 3470 Feb 112 21:52 3470 Feb 17 10:02 3470 Mar 06 15:24	26°M27'36 0°ズ 1°ズ22'33 6°ズ20'02 21°ズ09'17 0°云 0°≈ 1°≈55'13 6°≈50'00 6°≈46'32 5°≈18'53 30°Rउ 29°308'05 29°316'44 28°32'701 22°354'59 20°330'53 27°302'03 0°≈ 5°≈25'11 0°光	0°20'56 1.44126 AU 20°48'59 2°35'20 2°34'36 0.67570 AU
superior conj minimum elong max. Earth dist. evening rise greatest brilliancy evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el desc. node	3468 Dec 04 13:48 3468 Dec 08 05:27 3468 Dec 08 02:21 3468 Dec 11 18:48 3468 Dec 16 20:11 3468 Dec 24 13:56 3469 Jan 05 07:21 3469 Jan 06 23:07 3469 Jan 18 21:56 3469 Jan 24 04:23 3469 Jan 26 08:24 3469 Jan 29 23:02 3469 Feb 04 09:48 3469 Feb 04 07:30 3469 Feb 05 10:52 3469 Feb 07 10:52 3469 Feb 15 16:41 3469 Feb 27 19:00 3469 Mar 02 12:59 3469 Mar 12 23:58 3469 Apr 01 03:02	10° 🗷 36'16 16° 🗷 26'42 16° 🗷 14'22 22° 🗷 04'22 0° 🛪 12° 🛪 01'00 0° ≈ 2° ≈ 29'10 18° ≈ 23'30 22° ≈ 16'49 22° ≈ 42'16 21° ≈ 26'02 15° ≈ 27'18 15° ≈ 34'58 14° ≈ 04'15 9° ≈ 13'45 6° ≈ 32'04 13° ≈ 44'56 16° ≈ 41'15 0° ጕ	0°24'19 1.45027 AU -0.7m 19°45'34 3°07'06 3°06'37 0.66827 AU	minimum elong desc. node max. Earth dist. 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	3469 Nov 18 10:44 3469 Nov 20 14:31 3469 Nov 21 10:48 3469 Nov 24 12:37 3469 Dec 03 23:23 3469 Dec 09 18:29 3469 Dec 31 04:21 3470 Jan 10 06:22 3470 Jan 11 01:24 3470 Jan 14 06:13 3470 Jan 18 23:44 3470 Jan 19 14:55 3470 Jan 19 12:24 3470 Jan 19 12:24 3470 Jan 20 02:53 3470 Jan 20 02:53 3470 Jan 30 05:01 3470 Feb 10 03:27 3470 Feb 11 21:52 3470 Feb 17 10:02 3470 Mar 06 15:24 3470 Mar 17 19:32	26°M27'36 0°ズ 1°ズ22'33 6°ズ20'02 21°ズ09'17 0°℧ 0°※ 1°※55'13 6°※50'00 6°※46'32 5°※18'53 30°R℧ 29°℧08'05 29°℧16'44 28°℧27'01 22°℧54'59 20°℧30'53 27°℧02'03 0°※ 5°※25'11 0°ℋ 18°光18'21	0°20'56 1.44126 AU 20°48'59 2°35'20 2°34'36 0.67570 AU 24°01'55
superior conj minimum elong max. Earth dist. evening rise greatest brilliancy evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el desc. node	3468 Dec 04 13:48 3468 Dec 08 05:27 3468 Dec 08 02:21 3468 Dec 11 18:48 3468 Dec 16 20:11 3468 Dec 24 13:56 3469 Jan 05 07:21 3469 Jan 06 23:07 3469 Jan 24 04:23 3469 Jan 24 04:23 3469 Jan 29 23:02 3469 Feb 04 09:48 3469 Feb 04 07:30 3469 Feb 05 10:52 3469 Feb 07 10:52 3469 Feb 15 16:41 3469 Feb 27 19:00 3469 Mar 02 12:59 3469 Mar 12 23:58 3469 Apr 01 03:02 3469 Apr 05 00:38	10° 🗷 36'16 16° 🗷 26'42 16° 🗷 14'22 22° 🗷 04'22 0° 🛪 12° 🛪 01'00 0° ≈ 2° ≈ 29'10 18° ≈ 23'30 22° ≈ 16'49 22° ≈ 42'16 21° ≈ 26'02 15° ≈ 27'18 15° ≈ 34'58 14° ≈ 04'15 9° ≈ 13'45 6° ≈ 32'04 13° ≈ 44'56 16° ≈ 41'15 0° 升 0° か	0°24'19 1.45027 AU -0.7m 19°45'34 3°07'06 3°06'37 0.66827 AU 25°28'00	minimum elong desc. node max. Earth dist. 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	3469 Nov 18 10:44 3469 Nov 20 14:31 3469 Nov 21 10:48 3469 Nov 24 12:37 3469 Dec 03 23:23 3469 Dec 09 18:29 3469 Dec 31 04:21 3470 Jan 10 06:22 3470 Jan 11 01:24 3470 Jan 14 06:13 3470 Jan 18 23:44 3470 Jan 19 14:55 3470 Jan 19 12:24 3470 Jan 19 12:24 3470 Jan 20 02:53 3470 Jan 20 02:53 3470 Jan 30 05:01 3470 Feb 10 03:27 3470 Feb 11 10:02 3470 Mar 06 15:24 3470 Mar 17 19:32 3470 Mar 21 13:55	26°M27'36 0°ズ 1°ズ22'33 6°ズ20'02 21°ズ09'17 0°℧ 0°※ 1°※55'13 6°※50'00 6°※46'32 5°※18'53 30°R℧ 29°℧08'05 29°℧16'44 28°℧27'01 22°℧54'59 20°℧30'53 27°℧02'03 0°※ 5°※25'11 0°ℋ 18°光18'21 24°米54'47	0°20'56 1.44126 AU 20°48'59 2°35'20 2°34'36 0.67570 AU 24°01'55
superior conj minimum elong max. Earth dist. evening rise greatest brilliancy evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el desc. node morning set max. Earth dist.	3468 Dec 04 13:48 3468 Dec 08 05:27 3468 Dec 08 02:21 3468 Dec 11 18:48 3468 Dec 16 20:11 3468 Dec 24 13:56 3469 Jan 05 07:21 3469 Jan 06 23:07 3469 Jan 18 21:56 3469 Jan 24 04:23 3469 Jan 26 08:24 3469 Jan 29 23:02 3469 Feb 04 09:48 3469 Feb 05 10:52 3469 Feb 09 15:44 3469 Feb 15 16:41 3469 Feb 27 19:00 3469 Mar 02 12:59 3469 Mar 12 23:58 3469 Apr 01 03:02 3469 Apr 05 00:38 3469 Apr 08 17:44	10° ₹36'16 16° ₹26'42 16° ₹14'22 22° ₹04'22 0° ₹ 12° ₹01'00 0° ≈ 2° ≈29'10 18° ≈23'30 22° ≈16'49 22° ≈42'16 21° ≈26'02 15° ≈27'18 15° ≈34'58 14° ≈04'15 9° ≈13'45 6° ≈32'04 13° ≈44'56 16° ≈41'15 0° ₹ 0° ₹ 0° ₹55'47	0°24'19 1.45027 AU -0.7m 19°45'34 3°07'06 3°06'37 0.66827 AU 25°28'00	minimum elong desc. node max. Earth dist. 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.	3469 Nov 18 10:44 3469 Nov 20 14:31 3469 Nov 21 10:48 3469 Nov 24 12:37 3469 Dec 03 23:23 3469 Dec 09 18:29 3469 Dec 31 04:21 3470 Jan 10 06:22 3470 Jan 11 01:24 3470 Jan 14 06:13 3470 Jan 18 23:44 3470 Jan 19 14:55 3470 Jan 19 12:24 3470 Jan 20 02:53 3470 Jan 20 02:53 3470 Jan 30 05:01 3470 Feb 10 03:27 3470 Feb 12 21:52 3470 Feb 17 10:02 3470 Mar 06 15:24 3470 Mar 17 19:32 3470 Mar 21 13:55 3470 Mar 24 09:23	26°M27'36 0°ズ 1°ズ22'33 6°ズ20'02 21°ズ09'17 0°उ 0°≈ 1°≈55'13 6°≈50'00 6°≈46'32 5°≈18'53 30°Rउ 29°उ08'05 29°उ16'44 28°उ27'01 22°उ54'59 20°उ30'53 27°उ02'03 0°≈ 5°≈25'11 0°Ж 18°Ж18'21 24°Ж54'47 0°Υ	0°20'56 1.44126 AU 20°48'59 2°35'20 2°34'36 0.67570 AU 24°01'55
superior conj minimum elong max. Earth dist. evening rise greatest brilliancy evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el desc. node morning set max. Earth dist. superior conj	3468 Dec 04 13:48 3468 Dec 08 05:27 3468 Dec 08 02:21 3468 Dec 11 18:48 3468 Dec 16 20:11 3468 Dec 24 13:56 3469 Jan 05 07:21 3469 Jan 06 23:07 3469 Jan 18 21:56 3469 Jan 24 04:23 3469 Jan 26 08:24 3469 Jan 29 23:02 3469 Feb 04 09:48 3469 Feb 04 07:30 3469 Feb 05 10:52 3469 Feb 09 15:44 3469 Feb 15 16:41 3469 Feb 27 19:00 3469 Mar 02 12:59 3469 Mar 02 12:59 3469 Apr 01 03:02 3469 Apr 05 00:38 3469 Apr 08 17:44	10° ₹36'16 16° ₹26'42 16° ₹14'22 22° ₹04'22 0° ₹ 12° ₹01'00 0° ≈ 2° ≈29'10 18° ≈23'30 22° ≈16'49 22° ≈42'16 21° ≈26'02 15° ≈27'18 15° ≈34'58 14° ≈04'15 9° ≈13'45 6° ≈32'04 13° ≈44'56 16° ≈41'15 0° ₹ 0° ₹ 5° ₹15'47	0°24'19 1.45027 AU -0.7m 19°45'34 3°07'06 3°06'37 0.66827 AU 25°28'00	minimum elong desc. node max. Earth dist. 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.	3469 Nov 18 10:44 3469 Nov 20 14:31 3469 Nov 21 10:48 3469 Nov 24 12:37 3469 Dec 03 23:23 3469 Dec 09 18:29 3469 Dec 31 04:21 3470 Jan 10 06:22 3470 Jan 11 01:24 3470 Jan 14 06:13 3470 Jan 18 23:44 3470 Jan 19 14:55 3470 Jan 19 12:24 3470 Jan 20 02:53 3470 Jan 20 02:53 3470 Jan 30 05:01 3470 Feb 10 03:27 3470 Feb 12 21:52 3470 Feb 17 10:02 3470 Mar 17 19:32 3470 Mar 21 13:55 3470 Mar 24 09:23	26°M27'36 0°ズ 1°ズ22'33 6°ズ20'02 21°ズ09'17 0°उ 0°≈ 1°≈55'13 6°≈50'00 6°≈46'32 5°≈18'53 30°Rउ 29°उ08'05 29°उ16'44 28°उ27'01 22°उ54'59 20°उ30'53 27°उ02'03 0°≈ 5°≈25'11 0°ዢ 18°ዢ18'21 24°ዢ54'47 0°℃	0°20'56 1.44126 AU 20°48'59 2°35'20 2°34'36 0.67570 AU 24°01'55 1.38250 AU -1°37'35
superior conj minimum elong max. Earth dist. evening rise greatest brilliancy evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el desc. node morning set max. Earth dist. superior conj	3468 Dec 04 13:48 3468 Dec 08 05:27 3468 Dec 08 02:21 3468 Dec 11 18:48 3468 Dec 16 20:11 3468 Dec 24 13:56 3469 Jan 05 07:21 3469 Jan 18 21:56 3469 Jan 24 04:23 3469 Jan 26 08:24 3469 Jan 29 23:02 3469 Feb 04 09:48 3469 Feb 04 07:30 3469 Feb 05 10:52 3469 Feb 09 15:44 3469 Feb 15 16:41 3469 Feb 27 19:00 3469 Mar 02 12:59 3469 Mar 12 23:58 3469 Apr 01 03:02 3469 Apr 05 00:38 3469 Apr 08 17:44 3469 Apr 14 15:22 3469 Apr 14 15:22 3469 Apr 14 19:06	10° ₹36'16 16° ₹26'42 16° ₹14'22 22° ₹04'22 0° ₹ 12° ₹01'00 0° ≈ 2° ≈29'10 18° ≈23'30 22° ≈42'16 21° ≈26'02 15° ≈27'18 15° ≈34'58 14° ≈04'15 9° ≈13'45 6° ≈32'04 13° ≈44'56 16° ≈41'15 0° ₹ 0° ₹ 5° ₹15'47 13° ₹47'59	0°24'19 1.45027 AU -0.7m 19°45'34 3°07'06 3°06'37 0.66827 AU 25°28'00	minimum elong desc. node max. Earth dist. 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.	3469 Nov 18 10:44 3469 Nov 20 14:31 3469 Nov 21 10:48 3469 Nov 24 12:37 3469 Dec 03 23:23 3469 Dec 09 18:29 3469 Dec 31 04:21 3470 Jan 10 06:22 3470 Jan 11 01:24 3470 Jan 14 06:13 3470 Jan 18 23:44 3470 Jan 19 14:55 3470 Jan 19 12:24 3470 Jan 20 02:53 3470 Jan 20 02:53 3470 Jan 30 05:01 3470 Feb 10 03:27 3470 Feb 12 21:52 3470 Feb 17 10:02 3470 Mar 06 15:24 3470 Mar 17 19:32 3470 Mar 21 13:55 3470 Mar 24 09:23	26°M27'36 0°ズ 1°ズ22'33 6°ズ20'02 21°ズ09'17 0°उ 0°≈ 1°≈55'13 6°≈50'00 6°≈46'32 5°≈18'53 30°₨3 29°♂308'05 29°♂30'53 27°♂30'53 27°♂30'53 27°♂30'53 27°♂30'53 27°♂30'53 8°¥3'447 0°¥	0°20'56 1.44126 AU 20°48'59 2°35'20 2°34'36 0.67570 AU 24°01'55 1.38250 AU -1°37'35
superior conj minimum elong max. Earth dist. evening rise greatest brilliancy evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el desc. node morning set max. Earth dist. superior conj minimum elong	3468 Dec 04 13:48 3468 Dec 08 05:27 3468 Dec 08 02:21 3468 Dec 11 18:48 3468 Dec 16 20:11 3468 Dec 24 13:56 3469 Jan 05 07:21 3469 Jan 06 23:07 3469 Jan 18 21:56 3469 Jan 24 04:23 3469 Jan 29 23:02 3469 Jan 29 23:02 3469 Feb 04 09:48 3469 Feb 05 10:52 3469 Feb 09 15:44 3469 Feb 15 16:41 3469 Feb 27 19:00 3469 Mar 02 12:59 3469 Mar 12 23:58 3469 Apr 01 03:02 3469 Apr 05 00:38 3469 Apr 14 15:22 3469 Apr 14 19:06 3469 Apr 14 19:06 3469 Apr 16 23:58	10° ₹36'16 16° ₹26'42 16° ₹14'22 22° ₹04'22 0° ₹ 12° ₹01'00 0° ≈ 2° ≈29'10 18° ≈23'30 22° ≈42'16 21° ≈26'02 15° ≈27'18 15° ≈34'58 14° ≈04'15 9° ≈13'45 6° ≈32'04 13° ≈44'56 16° ≈41'15 0° ₹ 0° ₹ 6° ₹55'47 13° ₹47'59 25° ₹15'41 25° ₹34'20 0° ₹	0°24'19 1.45027 AU -0.7m 19°45'34 3°07'06 3°06'37 0.66827 AU 25°28'00	minimum elong desc. node max. Earth dist. 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.	3469 Nov 18 10:44 3469 Nov 20 14:31 3469 Nov 21 10:48 3469 Nov 24 12:37 3469 Dec 03 23:23 3469 Dec 09 18:29 3469 Dec 31 04:21 3470 Jan 10 06:22 3470 Jan 11 01:24 3470 Jan 14 06:13 3470 Jan 18 23:44 3470 Jan 19 14:55 3470 Jan 19 12:24 3470 Jan 20 02:53 3470 Jan 20 02:53 3470 Jan 30 05:01 3470 Feb 10 03:27 3470 Feb 12 21:52 3470 Feb 17 10:02 3470 Mar 06 15:24 3470 Mar 17 19:32 3470 Mar 24 09:23 3470 Mar 28 18:28 3470 Mar 28 23:04 3470 Mar 28 23:04 3470 Mar 28 23:04	26°M27'36 0°ズ 1°ズ22'33 6°ズ20'02 21°ズ09'17 0°उ 0°≈ 1°≈55'13 6°≈50'00 6°≈46'32 5°≈18'53 30°Rउ 29°उ08'05 29°उ16'44 28°उ27'01 22°उ54'59 20°उ30'53 27°उ02'03 0°≈ 5°≈25'11 0°Ж 18°Ж18'21 24°Ж54'47 0°Υ 8°Υ10'53 8°Υ32'48 25°Υ35'34	0°20'56 1.44126 AU 20°48'59 2°35'20 2°34'36 0.67570 AU 24°01'55 1.38250 AU -1°37'35
superior conj minimum elong max. Earth dist. evening rise greatest brilliancy evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el desc. node morning set max. Earth dist. superior conj minimum elong	3468 Dec 04 13:48 3468 Dec 08 05:27 3468 Dec 08 02:21 3468 Dec 11 18:48 3468 Dec 16 20:11 3468 Dec 24 13:56 3469 Jan 05 07:21 3469 Jan 06 23:07 3469 Jan 18 21:56 3469 Jan 24 04:23 3469 Jan 26 08:24 3469 Jan 29 23:02 3469 Feb 04 09:48 3469 Feb 05 10:52 3469 Feb 09 15:44 3469 Feb 05 10:52 3469 Feb 15 16:41 3469 Feb 27 19:00 3469 Mar 02 12:59 3469 Mar 12 23:58 3469 Apr 01 03:02 3469 Apr 05 00:38 3469 Apr 14 15:22 3469 Apr 14 19:06 3469 Apr 16 23:58 3469 Apr 22 03:41	10° ₹36'16 16° ₹26'42 16° ₹14'22 22° ₹04'22 0° ₹ 12° ₹01'00 0° ≈ 2° ≈29'10 18° ≈23'30 22° ≈16'49 22° ≈42'16 21° ≈26'02 15° ≈27'18 15° ≈34'58 14° ≈04'15 9° ≈13'45 6° ≈32'04 13° ≈44'56 16° ≈41'15 0° ♀ 6° ♀55'47 13° ♀47'59 25° ♀15'41 25° ♀34'20 0° ₹ 10° ₹30'03	0°24'19 1.45027 AU -0.7m 19°45'34 3°07'06 3°06'37 0.66827 AU 25°28'00	minimum elong desc. node max. Earth dist. 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.	3469 Nov 18 10:44 3469 Nov 20 14:31 3469 Nov 21 10:48 3469 Nov 24 12:37 3469 Dec 03 23:23 3469 Dec 09 18:29 3469 Dec 31 04:21 3470 Jan 10 06:22 3470 Jan 11 01:24 3470 Jan 14 06:13 3470 Jan 19 14:55 3470 Jan 19 12:24 3470 Jan 19 12:24 3470 Jan 20 02:53 3470 Jan 20 02:53 3470 Jan 30 05:01 3470 Feb 10 03:27 3470 Feb 12 21:52 3470 Feb 17 10:02 3470 Mar 06 15:24 3470 Mar 17 19:32 3470 Mar 21 13:55 3470 Mar 24 09:23 3470 Mar 28 18:28 3470 Mar 28 23:04 3470 Mar 28 23:04 3470 Apr 06 16:47 3470 Apr 08 22:59	26°M27'36 0°ズ 1°ズ22'33 6°ズ20'02 21°ズ09'17 0°उ 0°≈ 1°≈55'13 6°≈50'00 6°≈46'32 5°≈18'53 30°Rउ 29°उ08'05 29°उ16'44 28°उ27'01 22°उ54'59 20°उ30'53 27°उ02'03 0°≈ 5°≈25'11 0°Ж 18°Ж18'21 24°Ж54'47 0°Υ 8°Υ10'53 8°Υ32'48 25°Υ35'34 0°႘	0°20'56 1.44126 AU 20°48'59 2°35'20 2°34'36 0.67570 AU 24°01'55 1.38250 AU -1°37'35
superior conj minimum elong max. Earth dist. evening rise greatest brilliancy evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el desc. node morning set max. Earth dist. superior conj minimum elong	3468 Dec 04 13:48 3468 Dec 08 05:27 3468 Dec 08 02:21 3468 Dec 11 18:48 3468 Dec 16 20:11 3468 Dec 24 13:56 3469 Jan 05 07:21 3469 Jan 06 23:07 3469 Jan 18 21:56 3469 Jan 24 04:23 3469 Jan 26 08:24 3469 Jan 29 23:02 3469 Feb 04 09:48 3469 Feb 05 10:52 3469 Feb 09 15:44 3469 Feb 07 10:52 3469 Feb 15 16:41 3469 Feb 27 19:00 3469 Mar 02 12:59 3469 Mar 12 23:58 3469 Apr 01 03:02 3469 Apr 05 00:38 3469 Apr 14 15:22 3469 Apr 14 19:06 3469 Apr 16 23:58 3469 Apr 22 03:41 3469 Apr 22 03:41	10° ₹36'16 16° ₹26'42 16° ₹14'22 22° ₹04'22 0° ₹ 12° ₹01'00 0° ≈ 2° ≈29'10 18° ≈23'30 22° ≈16'49 22° ≈42'16 21° ≈26'02 15° ≈34'58 14° ≈04'15 9° ≈13'45 6° ≈32'04 13° ≈44'56 16° ≈41'15 0° ¥ 0° ¥ 25° ¥15'41 25° ¥34'20 0° ¥ 10° ₹30'03 11° ₹44'19	0°24'19 1.45027 AU -0.7m 19°45'34 3°07'06 3°06'37 0.66827 AU 25°28'00 1.36198 AU -1°11'46 1°11'09	minimum elong desc. node max. Earth dist. 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.	3469 Nov 18 10:44 3469 Nov 20 14:31 3469 Nov 21 10:48 3469 Nov 24 12:37 3469 Dec 03 23:23 3469 Dec 09 18:29 3469 Dec 31 04:21 3470 Jan 10 06:22 3470 Jan 11 01:24 3470 Jan 14 06:13 3470 Jan 19 14:55 3470 Jan 19 12:24 3470 Jan 19 12:24 3470 Jan 20 02:53 3470 Jan 20 02:53 3470 Jan 30 05:01 3470 Feb 10 03:27 3470 Feb 12 21:52 3470 Feb 17 10:02 3470 Mar 06 15:24 3470 Mar 17 19:32 3470 Mar 21 13:55 3470 Mar 24 09:23 3470 Mar 28 18:28 3470 Mar 28 23:04 3470 Apr 06 16:47 3470 Apr 08 22:59 3470 Apr 09 00:42	26°M27'36 0°ズ 1°ズ22'33 6°ズ20'02 21°ズ09'17 0°उ 0°≈ 1°≈55'13 6°≈50'00 6°≈46'32 5°≈18'53 30°Rउ 29°उ08'05 29°उ16'44 28°उ27'01 22°उ54'59 20°उ30'53 27°उ02'03 0°≈ 5°≈25'11 0°Ж 18°Ж18'21 24°Ж54'47 0°Υ 8°Υ10'53 8°Υ32'48 25°Υ35'34 0°႘08'17	0°20'56 1.44126 AU 20°48'59 2°35'20 2°34'36 0.67570 AU 24°01'55 1.38250 AU -1°37'35 1°37'02

	2470 M 02 10-26	260 400154			2471 A 16 02-24	00 405106	
evening set	3470 May 03 19:26	26° 8 09'54	1017101	evening set	3471 Apr 16 03:24	8° 8 05'06	2022142
inferior conj	3470 May 11 21:43	21° 8 53'43	1°16'01	inferior conj	3471 Apr 23 10:26	3° 8 29'11	
minimum elong	3470 May 12 00:31	21° 8 48'46	1°15'05	minimum elong	3471 Apr 23 14:09	3° 8 21'26	2°31'46
min. Earth dist.	3470 May 15 00:45	19° 8 41'58	0.56818 AU	min. Earth dist.	3471 Apr 26 21:04	0° 8 39'23	0.58787 AU
desc. node	3470 May 16 09:11	18° 8 49'02			3471 Apr 27 17:39	30° ₹ Υ	
morning rise	3470 May 20 02:25	16° 8 51'46		morning rise	3471 Apr 30 22:00	27° Y ′56′24	
direct	3470 May 25 08:12	15° 8 46'21		desc. node	3471 May 03 06:13	26° Ƴ 54'44	
morning max el	3470 Jun 08 15:38	23° 8 10'51	25°54'06	direct	3471 May 07 01:34	26° Ƴ 16′06	
	3470 Jun 14 18:23	Π $^{\circ}0$			3471 May 16 18:14	9° 8	
	3470 Jul 03 00:57	0 \circ \odot		morning max el	3471 May 21 11:00	4° 8 01'19	27°06'56
asc. node	3470 Jul 05 23:59	6° © 04'40			3471 Jun 09 10:37	$\Pi^{\circ}0$	
morning set	3470 Jul 06 12:16	7° © 09'18		morning set	3471 Jun 20 21:33	21° Ⅱ 53'58	
-				asc. node	3471 Jun 22 21:01	26° Ⅱ 05'36	
superior conj	3470 Jul 13 11:19	22° © 17'01	1°11'23		3471 Jun 24 16:23	0°9	
minimum elong	3470 Jul 13 08:58	22° © 04'08	1°11'02				
max. Earth dist.	3470 Jul 14 05:56	23°959'16	1.32348 AU	superior conj	3471 Jun 27 23:08	7° © 12'14	0°51'18
max. Latin dist.	3470 Jul 17 00:08	0° Ω	1.525 10 110	minimum elong	3471 Jun 27 21:08	7° © 01'11	0°50'55
evening rise	3470 Jul 20 11:25	7° Ω 22'07		max. Earth dist.	3471 Jun 27 17:35	6°941'37	1.32065 AU
evening rise						22°\$06'09	1.32003 AU
1 1	3470 Aug 01 10:34	0°M)		evening rise	3471 Jul 04 19:28		
desc. node	3470 Aug 12 08:28	16° Tp 24'31	27011126		3471 Jul 08 15:38	0° N	
evening max el	3470 Aug 20 23:31	26° Mp 13'04	27°11'36		3471 Jul 26 20:12	0° m	
	3470 Aug 25 13:23	0∘ ರ		desc. node	3471 Jul 30 05:29	4° Mp 06′02	
retrograde	3470 Sep 03 19:48	ვ° ჲ 26'36		evening max el	3471 Aug 03 00:05	8° Mp 02'28	26°23'36
evening set	3470 Sep 10 22:55	1° ≏ 07'41		retrograde	3471 Aug 16 23:26	15° m 13'05	
	3470 Sep 12 13:43	30°₽, Т р		evening set	3471 Aug 23 13:59	13° m 24'42	
min. Earth dist.	3470 Sep 14 13:48	28° M 22'43	0.61593 AU	min. Earth dist.	3471 Aug 27 13:19	10° Mp 49'26	0.59530 AU
inferior conj	3470 Sep 17 15:45	25° m 38'20	-4°08'45	inferior conj	3471 Aug 30 20:10	8° Mp 16'29	-4°50'36
minimum elong	3470 Sep 17 21:32	25° m 25'26	4°07'21	minimum elong	3471 Aug 31 00:31	8° Mp 08'01	4°50'00
morning rise	3470 Sep 24 21:53	20° m 41'54		morning rise	3471 Sep 07 13:10	3° m/ 42'34	
direct	3470 Sep 27 06:56	20° m 18'12		direct	3471 Sep 09 22:56	3° m 22'06	
asc. node	3470 Oct 01 23:12	21° m 53'34		morning max el	3471 Sep 17 16:53	7° Mp 07'21	18°19'58
morning max el	3470 Oct 01 25:12	23° Mp 48'47	17°55'46	asc. node	3471 Sep 17 10:33 3471 Sep 18 20:16	8° mg 17'30	10 17 30
morning max er		23 11√4847 0° Ω	17 33 40	asc. node	•	0∘ ʊ	
	3470 Oct 09 05:49				3471 Oct 02 07:59		
morning set	3470 Oct 20 02:48	18° Ω 42'12		morning set	3471 Oct 03 15:40	2° ≏ 30'40	
	3470 Oct 26 08:27	0°M₊					
				superior conj	3471 Oct 12 20:38	19° ≙ 51'21	1°23'52
superior conj	3470 Oct 30 14:35	7°M29'54	0°58'14	minimum elong	3471 Oct 13 00:20	20° ≏ 08'17	1°23'30
minimum elong	3470 Oct 30 18:49	7° M 48'14	0°57'42		3471 Oct 18 12:49	0°M	
max. Earth dist.	3470 Nov 07 02:02	20° ™ 07'58	1.42620 AU	max. Earth dist.	3471 Oct 20 09:44	3° M 14′00	1.40708 AU
desc. node	3470 Nov 08 07:49	22°M09'55		evening rise	3471 Oct 25 00:17	10° ™ 57'55	
	3470 Nov 13 04:58	0° ∡ ¹		desc. node	3471 Oct 26 04:49	12°M54'36	
evening rise	3470 Nov 13 14:24	0° ∡ ³37'14			3471 Nov 06 04:15	0° ∡ ¹	
Č	3470 Dec 03 08:25	0°⋜		evening max el	3471 Nov 28 09:31	29° ∡ ¹03'54	23°22'21
evening max el	3470 Dec 15 18:24	15° る 28'20	22°02'50	Č	3471 Nov 29 08:29	0° ට	
retrograde	3470 Dec 25 03:11	21° る 02'49		retrograde	3471 Dec 08 21:17	5° る 16'30	
asc. node	3470 Dec 28 22:26	19°る45'05		evening set	3471 Dec 13 20:28	3°る13'23	
evening set	3470 Dec 28 22:20 3470 Dec 29 13:54	19° ठ 15'56		asc. node	3471 Dec 15 20:28 3471 Dec 15 19:29	1° ට 1525	
•		19 3 13 36	1°55'31	asc. node			
inferior conj	3471 Jan 03 22:16				3471 Dec 16 20:51	30°₹ ⋌ ¹	1000150
minimum elong	3471 Jan 03 20:01	13°る04'12	1°54'43	inferior conj	3471 Dec 19 05:57	26° √ 49'05	1°08'58
min. Earth dist.	3471 Jan 03 22:30	12° ろ 55'35	0.67922 AU	minimum elong	3471 Dec 19 04:25	26° ₹ 54'21	1°08'22
morning rise	3471 Jan 09 02:00	6° පි 45'16		min. Earth dist.	3471 Dec 18 19:20	27° ∡ ¹25'34 _	0.67913 AU
direct	3471 Jan 13 21:39	4° る 43'05		morning rise	3471 Dec 24 12:19	20° ≯ 41'48	
morning max el	3471 Jan 23 13:56	10° る 25'59	22°33'09	direct	3471 Dec 28 17:39	19° ∡ 02'24	
desc. node	3471 Feb 04 07:04	24° පි 49'16		morning max el	3472 Jan 06 05:45	23° ∡ 58'39	21°10'05
	3471 Feb 07 23:38	0° ≈			3472 Jan 11 11:53	5°0	
morning set	3471 Feb 26 11:22	28° ≈ 21'54		desc. node	3472 Jan 22 04:06	14° る 41'50	
	3471 Feb 27 11:15	0° ∀			3472 Feb 01 09:07	0° ≈	
max. Earth dist.	3471 Mar 03 10:02	6°) 36'44	1.40426 AU	morning set	3472 Feb 05 22:57	7°≈06'47	
				max. Earth dist.	3472 Feb 13 11:50	19° ≈ 11'38	1.42438 AU
superior conj	3471 Mar 11 04:58	20°) 15′55	-1°57'27		3472 Feb 19 23:15	0° ∀	50110
minimum elong	3471 Mar 11 04:55	20°\(\)33'46			51,2100 17 25.15	υ /\	
mmmum ciong		20 χ33 40 0° Υ	1 3 / 11	superior conj	3472 Feb 20 17:45	1°) 18′58	2006140
arramiri-	3471 Mar 16 11:58	8° Υ 53'55		1 3			
evening rise	3471 Mar 21 05:23			minimum elong	3472 Feb 20 18:26	1°) €21'52	2~06'49
asc. node		19° Ƴ 26'48		evening rise	3472 Mar 03 04:10	21°) 30'21	
	3471 Mar 26 21:44			E		0.000	
_	3471 Apr 02 09:18	0° 8		-	3472 Mar 07 21:46	0° Υ	
evening max el	3471 Apr 02 09:18 3471 Apr 06 09:44	0° と 4° と 48'53	18°22'28	asc. node	3472 Mar 07 21:46 3472 Mar 12 18:47	8° Y 18'55	
evening max el retrograde	3471 Apr 02 09:18	0° 8	18°22'28	-	3472 Mar 07 21:46		18°07'40

ratra ara da	3472 Mar 26 12:24	21° Υ 11'59			2472 Mar 17 00:10	30° Ŗ ₩	
retrograde		20° Y 39 '50			3473 Mar 17 09:10		2027/20
evening set	3472 Mar 29 04:05		2015120	inferior conj	3473 Mar 18 19:50	28°) (27'57	3°36'39
inferior conj	3472 Apr 04 19:06	15° Y 43'19	3°17'38	minimum elong	3473 Mar 18 20:32	28° H 26'03	3°36'38
minimum elong	3472 Apr 04 21:37	15° Ƴ 37'16	3°17'15	min. Earth dist.	3473 Mar 21 11:49	25° ∺ 35′25	0.63046 AU
min. Earth dist.	3472 Apr 08 00:08	12° Ƴ 40′07	0.60964 AU	morning rise	3473 Mar 24 23:06	22° ∺ 23'35	
morning rise	3472 Apr 11 13:12	9° Ƴ 50′25		direct	3473 Mar 31 20:58	19°) (44′06	
direct	3472 Apr 18 06:45	7° Ƴ 35'34		desc. node	3473 Apr 06 00:19	21° ℋ 00′26	
desc. node	3472 Apr 19 03:16	7° Ƴ 37'39		morning max el	3473 Apr 14 19:20	27°)(41'43	27°47'20
morning max el	3472 May 02 12:35	15° Ƴ 31'14	27°45'55		3473 Apr 17 00:07	$0^{\circ}\mathbf{\Upsilon}$	
	3472 May 14 07:44	0° ႘			3473 May 08 01:04	0° ႘	
	3472 May 31 22:35	0°II		morning set	3473 May 19 02:16	20° 8 34'28	
morning set	3472 Jun 04 02:59	6° Ⅱ 25'04			3473 May 23 15:50	0°II	
asc. node	3472 Jun 08 18:04	16° Ⅱ 12'45		max. Earth dist.	3473 May 24 10:24	1° ∏ 38′26	1.32736 AU
		10 H 1243 19° H 19'03	1 22100 ATT	max. Earth dist.	34/3 May 24 10.24	1 Д36 20	1.32/30 AU
max. Earth dist.	3472 Jun 10 04:21	19°Щ1903	1.32188 AU		2472.14 26 10.26	(0 T 20102	0001120
	2452 X 11 10 05	220 T 2115 4	0005146	superior conj	3473 May 26 18:26	6° ∏ 39'03	0°01'28
superior conj	3472 Jun 11 10:07	22° Ⅱ 01'54	0°27'46	minimum elong	3473 May 26 18:22	6° ∐ 38'40	0°01'26
minimum elong	3472 Jun 11 08:54	21° Ⅱ 55'10	0°27'30	behind sun begin	3473 May 26 13:08	6° Ⅱ 10′26	
	3472 Jun 15 01:18	0 \circ \odot		behind sun end	3473 May 26 23:36	7° Ⅱ 06'57	
evening rise	3472 Jun 18 06:26	6°956'24		asc. node	3473 May 26 15:06	6° Ⅱ 21′04	
	3472 Jun 30 07:25	$0^{\circ}\Omega$		evening rise	3473 Jun 02 18:17	21° Ⅱ 45′19	
evening max el	3472 Jul 14 17:34	19° Ω 05'49	25°06'47		3473 Jun 06 18:05	0ಂತ	
desc. node	3472 Jul 16 02:30	20°Ω21'26		evening max el	3473 Jun 26 06:52	29° © 36'19	23°32'39
retrograde	3472 Jul 28 16:54	26°Ω10'43		evening man er	3473 Jun 26 16:48	0°Ω	25 52 57
evening set	3472 Aug 03 05:28	25°Ω00'48		desc. node	3473 Jul 02 23:33	4° Ω 36'58	
•	=		0.57527 ATT			6°Ω25'32	
min. Earth dist.	3472 Aug 08 05:17		0.57527 AU	retrograde	3473 Jul 09 21:39		
inferior conj	3472 Aug 11 05:37	20° Ω 14'54		evening set	3473 Jul 13 22:46	5° Ω 49'41	
minimum elong	3472 Aug 11 05:37	20° Ω 14'55	5°07'38	min. Earth dist.	3473 Jul 20 16:51	2° Ω 41'13	0.55899 AU
morning rise	3472 Aug 19 08:12	16° Ω 03'09		inferior conj	3473 Jul 22 18:50	1° Ω 26'47	-4°44'35
direct	3472 Aug 21 21:41	15° Ω 43'53		minimum elong	3473 Jul 22 12:58	1° Ω 35'34	4°43'44
morning max el	3472 Aug 30 18:55	19° Ω 54'49	19°05'08		3473 Jul 25 06:31	30° ₹	
asc. node	3472 Sep 04 17:19	25° Ω 45'09		morning rise	3473 Jul 31 05:40	27°531'56	
	3472 Sep 07 12:17	0° m/		direct	3473 Aug 03 01:16	27° © 12'17	
morning set	3472 Sep 16 14:10	16° Mp 47'10			3473 Aug 10 23:08	$0^{\circ}\Omega$	
morning set	3472 Sep 23 06:33	0° ⊡		morning max el	3473 Aug 13 09:59	2°Ω00'50	20°12'01
	3472 Sep 23 00.33	0 —		asc. node	3473 Aug 22 14:22	14° Ω 01′29	20 12 01
	2472 0 24 21 15	20 0 07140	1020146	asc. node	Č		
superior conj	3472 Sep 24 21:15	3° Ω 07'40	1°38'46		3473 Aug 31 02:56	0° m	
minimum elong	3472 Sep 24 23:21	3° £ 17'49	1°38'38	morning set	3473 Aug 31 19:07	1° ™ 22'10	
max. Earth dist.	3472 Oct 01 14:07	15° ≏ 38'48	1.38636 AU				
evening rise	3472 Oct 05 09:50	22° ≏ 24'14		superior conj	3473 Sep 08 11:16	17° Mp 03'30	1°44'30
	3472 Oct 09 21:38	0° M.		minimum elong	3473 Sep 08 11:40	17° Mp 05′28	1°44'30
desc. node	3472 Oct 12 01:50	3°M33'05		max. Earth dist.	3473 Sep 13 20:06	27° My 36'31	1.36642 AU
	3472 Oct 30 01:55	0° ∡ ¹			3473 Sep 15 02:21	0∘ ⊽	
evening max el	3472 Nov 09 22:24	12° ∡ ¹44′01	24°41'06	evening rise	3473 Sep 17 16:59	4° £ 50'21	
retrograde	3472 Nov 21 11:25	19° ∡ 27'24		desc. node	3473 Sep 28 22:52	24° Ω 00'19	
evening set	3472 Nov 27 00:19	17° ∡ 08'40			3473 Oct 02 19:40	0°M	
min. Earth dist.	3472 Dec 01 14:56	11° × 754'38	0.67565 AU	evening max el	3473 Oct 23 10:48	26°M26'19	25°52'02
asc. node	3472 Dec 01 14:30	11° х 3438	0.07303 AO	evening max er	3473 Oct 27 12:57	0°×7	23 32 02
			0017140				
inferior conj	3472 Dec 02 12:13	10° 🖈 43'57	0°16'49	retrograde	3473 Nov 04 20:47	3°×730'41	
minimum elong	3472 Dec 02 11:48	10° ₹ 45'19	0°16'39	evening set	3473 Nov 10 23:41	0° ₹ 58′28	
morning rise	3472 Dec 07 23:23	4° ∡ °42'43			3473 Nov 12 01:20	30°RM₊	
direct	3472 Dec 11 15:49	3° ₹ 24'41		min. Earth dist.	3473 Nov 15 06:53	26°M19'45	0.66870 AU
morning max el	3472 Dec 19 05:13	7° ∡ ¹42'25	19°58'29	inferior conj	3473 Nov 16 15:13	24°M37'56	-0°39'47
	3473 Jan 04 18:52	0°ප		minimum elong	3473 Nov 16 16:16	24°M34'38	0°39'20
desc. node	3473 Jan 08 01:07	4° る 55'01		asc. node	3473 Nov 18 13:36	22°M16'00	
morning set	3473 Jan 14 19:04	15° る 14'43		morning rise	3473 Nov 22 09:12	18°M45'27	
C	3473 Jan 24 05:33	0° ≈		direct	3473 Nov 25 14:31	17° M 45'50	
max. Earth dist.	3473 Jan 25 21:39	2°≈39'30	1.44026 AU	morning max el	3473 Dec 02 12:22	21°M36'14	19°01'36
diot.	20 21.0)	= 5/50			3473 Dec 02 12:22 3473 Dec 09 06:44	0°×7	0.00
superior con:	3473 Jan 31 04:51	11° ≈ 12'06	2000122	morning set	3473 Dec 25 01:03	0 x . 24° √ 00'48	
superior conj				morning set			
minimum elong	3473 Jan 30 23:47	10°≈51'31	2-00/08	desc. node	3473 Dec 25 22:09	25° ₹ 23'12	
	3473 Feb 11 10:59	0° ∀			3473 Dec 28 21:03	0° ろ	
arranina riaa		3° ₩ 15'54		max. Earth dist.	3474 Jan 08 13:57	16° る 46'00	1.44988 AU
evening rise	3473 Feb 13 08:46						
asc. node	3473 Feb 13 08:46 3473 Feb 27 15:50	26°) ₹35′50					
=				superior conj	3474 Jan 10 16:24	20° ට 04'49	-1°34'35
=	3473 Feb 27 15:50	26°) ₹35′50	18°12'05	superior conj minimum elong	3474 Jan 10 16:24 3474 Jan 10 07:19	20° ට 04'49 19°ට28'57	
asc. node	3473 Feb 27 15:50 3473 Mar 02 09:12	26°) 35′50 0° Υ	18°12'05				
asc. node	3473 Feb 27 15:50 3473 Mar 02 09:12 3473 Mar 03 09:07	26°¥35'50 0° Y 1° Y 03'18	18°12'05		3474 Jan 10 07:19	19° ප් 28'57	

	3474 Feb 04 10:10	0° ∀			3475 Jan 31 11:54	0°) €	
asc. node	3474 Feb 04 10:10 3474 Feb 14 12:53	14°) (07'11		asc. node	3475 Feb 01 09:55	0° X 39'23	
	3474 Feb 14 12:35 3474 Feb 14 21:05	14° H 28'23	18°34'56		3475 Feb 05 06:58	1° H 59'06	
evening max el			16 34 30	retrograde		0° ¥ 50'49	
retrograde	3474 Feb 21 10:53	18° ∺ 05'59		evening set	3475 Feb 08 17:02		
evening set	3474 Feb 24 14:12	17°) € 10'33			3475 Feb 09 19:41	30°R ≈	
inferior conj	3474 Mar 02 08:37	11°) 35′47	3°36'10	inferior conj	3475 Feb 14 05:53	24° ≈ 59'56	3°21'04
minimum elong	3474 Mar 02 07:43	11°) 38′26	3°36'07	minimum elong	3475 Feb 14 03:56	25°≈06'14	3°20'45
min. Earth dist.	3474 Mar 04 09:00	9° ₩ 11'21	0.64826 AU	min. Earth dist.	3475 Feb 15 15:04	23° ≈ 13'13	0.66216 AU
morning rise	3474 Mar 08 00:44	5°) €25'21		morning rise	3475 Feb 19 14:33	18° ≈ 46'40	
direct	3474 Mar 14 18:35	2°) 35′00		direct	3475 Feb 25 22:36	15° ≈ 58'42	
desc. node	3474 Mar 23 21:21	6°) €32'27		morning max el	3475 Mar 10 14:51	23° ≈ 30′07	26°12'21
morning max el	3474 Mar 28 04:59	10° ¥ 25'38	27°13'52	desc. node	3475 Mar 10 18:23	23°≈39'04	
	3474 Apr 12 15:29	0° Y			3475 Mar 16 09:53	0° ∀	
	3474 Apr 30 11:36	0°8			3475 Apr 05 23:57	$0^{\circ}\Upsilon$	
morning set	3474 May 02 16:38	4° 8 14'06		morning set	3475 Apr 15 18:18	17° Y 12'21	
max. Earth dist.	3474 May 07 07:56	13° 8 29'38	1.33727 AU	max. Earth dist.	3475 Apr 19 18:04	24° Y 48'41	1.35172 AU
max. Earth dist.	3474 May 07 07.30	13 02730	1.55727710	max. Earth dist.	3475 Apr 22 09:09	0°8	1.55172710
aumorior aoni	3474 May 10 22:07	20° 8 57'55	0026145		54/5 Apr 22 07.07	٥ ن	
superior conj	•	_			2475 4 24 10 46	4° 8 51'00	0055127
minimum elong	3474 May 10 23:30	21° 8 05'10	0°26'28	superior conj	3475 Apr 24 18:46		
asc. node	3474 May 13 12:09	26° 8 26'54		minimum elong	3475 Apr 24 21:42	5° 8 05'57	0°55'02
	3474 May 15 04:08	Π °0		asc. node	3475 Apr 30 09:11	16° 8 25'41	
evening rise	3474 May 18 05:12	6° Ⅱ 27'02		evening rise	3475 May 02 13:10	20° 8 54'35	
	3474 May 30 21:56	0			3475 May 07 01:58	Π $^{\circ}0$	
evening max el	3474 Jun 07 23:08	10°9504'34	21°56'54	evening max el	3475 May 21 01:24	21° Ⅱ 00′32	20°32'35
desc. node	3474 Jun 19 20:34	16° © 18'40		retrograde	3475 Jun 01 04:00	26° Ⅲ 25'42	
retrograde	3474 Jun 20 14:52	16° 5 20'00		evening set	3475 Jun 03 04:46	26° Ⅱ 15'33	
evening set	3474 Jun 23 07:51	16° © 03'37		desc. node	3475 Jun 06 17:34	25° Ⅱ 14'11	
min. Earth dist.	3474 Jul 02 03:32	12° © 17'24	0.54973 AU	inferior conj	3475 Jun 12 10:12	22° Ⅱ 17'53	-1°40'23
inferior conj	3474 Jul 02 16:22	11° © 59'26		minimum elong	3475 Jun 12 05:29	22° I I24'43	1°38'39
minimum elong	3474 Jul 02 08:02	12°5511'06		min. Earth dist.	3475 Jun 13 15:41	21° I 35'16	0.54968 AU
morning rise	3474 Jul 11 09:47	8°907'42	3 27 23	morning rise	3475 Jun 21 05:21	18° I 08'38	0.54700710
direct	3474 Jul 11 09:47 3474 Jul 14 13:45	7°9345'34		direct	3475 Jun 24 23:23	17° Ⅱ 38'18	
			2192952				22010112
morning max el	3474 Jul 26 13:20	13° © 21'58	21°38'52	morning max el	3475 Jul 08 07:29	24° ∏ 05'22	23-19-13
	3474 Aug 07 20:18	0°N			3475 Jul 13 16:26	0.22	
asc. node	3474 Aug 09 11:23	2° Ω 55'08		asc. node	3475 Jul 27 08:26	22° © 16'57	
morning set	3474 Aug 16 04:08	16° Ω 09'12			3475 Jul 31 03:24	0 $^{\circ}\Omega$	
	3474 Aug 22 18:00	0° ™		morning set	3475 Jul 31 15:22	1° Ω 02'51	
superior conj	3474 Aug 23 10:41	1°Mp27'18	1°42'39	superior conj	3475 Aug 07 16:26	16° Ω 09'54	1°34'32
minimum elong	3474 Aug 23 09:41	1° Mp 22'05	1°42'37	minimum elong	3475 Aug 07 14:31	15° Ω 59'36	1°34'22
max. Earth dist.	3474 Aug 27 08:32	9° ™ 29'34	1.34925 AU	max. Earth dist.	3475 Aug 10 05:49	21° Ω 36'39	1.33594 AU
evening rise	3474 Aug 31 17:30	18° Mp 05'44			3475 Aug 14 07:19	0° m)	
•	3474 Sep 07 05:26	0∘ ⊽		evening rise	3475 Aug 15 07:06	1° m 59'12	
desc. node	3474 Sep 15 19:54	14° Ω 10′24		Ü	3475 Aug 31 02:43	0∘ <u>⊽</u>	
	3474 Sep 27 00:57	0°M		desc. node	3475 Sep 02 16:53	3° Ω 55'49	
evening max el	3474 Oct 05 23:13	10°M03'53	26°47'32	evening max el	3475 Sep	23° ⊆ 27'32	27°20'24
retrograde	3474 Oct 03 23:13 3474 Oct 19 00:50	17°M19'29	20 47 32	evening max ci	3475 Sep 18 11:08 3475 Sep 27 22:52	0°M	27 20 24
•				matera area da	3475 Oct 01 23:15	0°M46'06	
evening set	3474 Oct 25 16:32	14°M38'40	0.65022 ATT	retrograde			
min. Earth dist.	3474 Oct 29 16:47	10°M36'05	0.65823 AU		3475 Oct 05 18:22	30° ₹ Ω	
inferior conj	3474 Oct 31 12:54	8°M26'50		evening set	3475 Oct 09 00:22	28° Ω 04'46	
minimum elong	3474 Oct 31 15:39	8°M18'47	1°38'19	min. Earth dist.	3475 Oct 12 18:33	24° £ 37'04	0.64424 AU
asc. node	3474 Nov 05 10:38	3°M30'52		inferior conj	3475 Oct 15 03:00	22° ჲ 06'12	
morning rise	3474 Nov 06 15:29	2°M45'59		minimum elong	3475 Oct 15 07:25	21° ≏ 54'20	2°38'27
direct	3474 Nov 09 11:49	2°M01'09		morning rise	3475 Oct 21 15:39	16° ≏ 39'56	
morning max el	3474 Nov 16 01:19	5°M34'50	18°20'49	asc. node	3475 Oct 23 07:38	16° ≙ 10′17	
	3474 Dec 02 20:09	0° ∡ ¹		direct	3475 Oct 24 05:21	16° ≙ 06'02	
morning set	3474 Dec 05 10:00	4° ∡ 10′01		morning max el	3475 Oct 30 17:26	19° ≏ 32'20	17°56'57
desc. node	3474 Dec 12 19:11	16° ∡ *01'22		- C	3475 Nov 07 12:35	0°M	
				morning set	3475 Nov 16 23:40	15°M43'45	
superior conj	3474 Dec 20 18:26	28° ⋌ 37'54	-0°52'26	morning sec	3475 Nov 25 12:34	13 ll C 43 43	
				daga mada			
minimum elong	3474 Dec 20 11:51	28° ₹ 12'00	0°51'35	desc. node	3475 Nov 29 16:12	6° ≯ 46'03	
gen	3474 Dec 21 15:20	0°る	1 45000 133		247731 22 22 22	70 75000	000 42 4
max. Earth dist.	3474 Dec 22 09:04	1° ろ 09'37	1.45223 AU	superior conj	3475 Nov 30 08:06	7° ∡ 750'11	
evening rise	3475 Jan 05 22:51	23° る 59'48		minimum elong	3475 Nov 30 07:34	7° ∡ ¹48'01	0°04'29
	3475 Jan 09 18:40	0° ≈		behind sun begin	3475 Nov 29 21:37	7° ∡ *07'52	
greatest brilliancy	3475 Jan 16 17:48	10° ≈ 51′09	-0.8m	behind sun end	3475 Nov 30 17:31	8° ≯ 28′06	
evening max el	2475 Ion 20 05:54	27°≈57'33	10°15'08	max. Earth dist.	3475 Dec 05 03:44	15° 🗷 31'50	1.44721 AU
evening max er	3475 Jan 29 05:54	21 ~3133	17 13 00	max. Darth dist.	3173 DCC 03 03.11	15 7 51 50	1.44/21/10

	3475 Dec 14 09:59	8°0		superior conj	3476 Nov 09 22:33	18°ML15'35	0°38'15
evening rise	3475 Dec 16 12:39	3° る 15'23		minimum elong	3476 Nov 10 02:01	18°M30'10	0°37'47
greatest brilliancy	3475 Dec 31 01:35	25° る 14'49	-0.6m	desc. node	3476 Nov 15 13:13	27°M33'16	
	3476 Jan 03 08:31	0° ≈		max. Earth dist.	3476 Nov 16 19:25	29°M35'44	1.43548 AU
evening max el	3476 Jan 12 10:01	11° ≈ 28'55	20°10'55		3476 Nov 17 01:25	0° ∡ ″	
asc. node	3476 Jan 19 06:55	15° ≈ 58′08		evening rise	3476 Nov 24 22:21	12° ₹ 26'49	
retrograde	3476 Jan 20 04:57	16° ≈ 02'45			3476 Dec 06 12:52	0°రె	
evening set	3476 Jan 23 23:11	14° ≈ 40′30		evening max el	3476 Dec 25 08:40	25° る 01'38	21°19'26
inferior conj	3476 Jan 29 08:51	8° ≈ 36'10	2°54'43		3477 Jan 01 11:59	0° ≈	
minimum elong	3476 Jan 29 06:23	8° ≈ 44'30	2°54'06	retrograde	3477 Jan 03 02:37	0° ≈ 13′06	
min. Earth dist.	3476 Jan 30 04:12	7° ≈ 30'52	0.67193 AU		3477 Jan 04 15:54	30°Rる	
morning rise	3476 Feb 03 13:23	2° ≈ 22'20		asc. node	3477 Jan 05 03:57	29° る 49'59	
	3476 Feb 07 15:19	30°₹⋜		evening set	3477 Jan 07 06:48	28° る 35'36	
direct	3476 Feb 09 08:21	29° る 47'13		inferior conj	3477 Jan 12 15:12		2°19'22
	3476 Feb 11 03:05	0° ≈		minimum elong	3477 Jan 12 12:44	22° る 29'23	2°18'34
morning max el	3476 Feb 20 23:35	6° ≈ 44'28	24°52'12	min. Earth dist.	3477 Jan 12 22:07	21° る 56'55	0.67766 AU
desc. node	3476 Feb 25 15:26	11° ≈ 53'39		morning rise	3477 Jan 17 18:28	16° පි 08'18	
	3476 Mar 10 01:43	0° ∀		direct	3477 Jan 22 22:48	13° る 52'55	
morning set	3476 Mar 28 02:13	29° ∺ 15'13		morning max el	3477 Feb 02 08:19	20° る 03'58	23°23'53
	3476 Mar 28 12:17	$0^{\circ}\mathbf{\Upsilon}$			3477 Feb 10 19:10	0° ≈	
max. Earth dist.	3476 Mar 31 17:23	5° Ƴ 49'23	1.37039 AU	desc. node	3477 Feb 11 12:28	0° ≈ 56'38	
					3477 Mar 03 06:41	0° ∀	
superior conj	3476 Apr 07 05:23	18° Y 10′34		morning set	3477 Mar 09 10:19	10° ∺ 06′28	
minimum elong	3476 Apr 07 09:36	18° Ƴ 31'14	1°22'36	max. Earth dist.	3477 Mar 13 12:16	17° ∺ 06'35	1.39176 AU
	3476 Apr 13 03:54	0° 8			3477 Mar 20 16:00	0° Y	
evening rise	3476 Apr 15 15:53	5° 8 01'23					
asc. node	3476 Apr 16 06:13	6° 8 13'02		superior conj	3477 Mar 21 02:08	0° Y 47'06	
	3476 Apr 30 06:08	$\Pi^{\circ}0$		minimum elong	3477 Mar 21 06:42	1° Y ′08′25	1°46'32
evening max el	3476 May 02 15:56	2° Ⅱ 37'31	19°26'17	evening rise	3477 Mar 30 10:38	18° Y ′40′25	
retrograde	3476 May 12 00:57	7° Ⅱ 10'35		asc. node	3477 Apr 03 03:16	25° Y 44'14	
evening set	3476 May 14 01:02	6° Ⅱ 59'02			3477 Apr 05 10:43	0°8	
inferior conj	3476 May 22 14:46	2° ∏ 53'01	0°17'23	evening max el	3477 Apr 15 16:55	14° 8 53'32	18°39'59
minimum elong	3476 May 22 15:31	2° ∏ 51'49	0°17'06	retrograde	3477 Apr 23 15:24	18° 8 46'53	
desc. node	3476 May 23 14:36	2° Ⅱ 14'17		evening set	3477 Apr 25 21:17	18° 8 29'20	
min. Earth dist.	3476 May 25 06:04	1° Ⅱ 10'55	0.55917 AU	inferior conj	3477 May 03 15:08	14° 8 05'13	1°52'36
	3476 May 27 05:21	30° ₹ 8		minimum elong	3477 May 03 18:42	13° 8 58'28	1°51'30
morning rise	3476 May 31 03:08	28° 8 11'15		min. Earth dist.	3477 May 06 23:30	11° 8 34'37	0.57613 AU
direct	3476 Jun 04 19:08	27° 8 21'49		desc. node	3477 May 10 11:39	9° 8 20'52	
	3476 Jun 13 04:29	0°II		morning rise	3477 May 11 12:56	8° 8 49'22	
morning max el	3476 Jun 18 21:35		25°00'59	direct	3477 May 17 04:58	7° 8 29'30	26020125
	3476 Jul 07 01:46	0°©		morning max el	3477 May 31 13:39	15° 8 03'50	26°28'35
asc. node	3476 Jul 13 05:28	11°958'48			3477 Jun 12 14:00	0°∏	
morning set	3476 Jul 15 03:07	15°957'17			3477 Jun 29 04:46	0°95	
	3476 Jul 21 14:36	0 ° Ω		morning set	3477 Jun 29 13:48	0°547'28	
	2476 I-1 22 02-02	10 000120	1921110	asc. node	3477 Jun 30 02:31	1° © 54'42	
superior conj	3476 Jul 22 02:03 3476 Jul 21 23:43	1° Ω 02'39			2477 I1 06 12.26	1.596550107	1902120
minimum elong max. Earth dist.	3476 Jul 23 11:08	0° Ω 49'55 4° Ω 02'56		superior conj minimum elong	3477 Jul 06 13:36 3477 Jul 06 11:21	15° © 59'06 15° © 46'40	1°03'20 1°02'57
evening rise	3476 Jul 29 06:07	16° Ω 19'35	1.32082 AU	=	3477 Jul 06 11:21 3477 Jul 06 21:39	16°943'25	1.32183 AU
evening rise	3476 Jul 29 06:07 3476 Aug 05 06:31	0° m		max. Earth dist. evening rise	3477 Jul 06 21:39 3477 Jul 13 11:38	0° Ω 57'52	1.34103 AU
desc. node	3476 Aug 05 06:31 3476 Aug 19 13:54	23° Mp 05'37		evening rise	3477 Jul 13 11:38 3477 Jul 13 00:37	0° Ω	
desc. Hode	3476 Aug 24 22:02	ე∘ ი			3477 Jul 13 00:37 3477 Jul 29 07:29	0°mp	
evening max el	3476 Aug 30 20:46	6° £ 24'20	27°24'19	desc. node	3477 Aug 06 10:54	11°Mp25'06	
retrograde	3476 Sep 13 15:08	13° ⊆ 40'17	2/241)	evening max el	3477 Aug 00 10:34 3477 Aug 13 01:35	18° Mp 41'47	26°55'13
evening set	3476 Sep 20 19:49	13 — 4017 11° — 09'48		retrograde	3477 Aug 15 01:33	25° m 53'23	20 33 13
min. Earth dist.	3476 Sep 24 10:30		0.62699 AU	evening set	3477 Sep 02 22:37	23° Mp 46'25	
inferior conj	3476 Sep 27 06:40	5° £ 28'40		min. Earth dist.	3477 Sep 02 22:37 3477 Sep 06 15:47	23 mp 07'26	0.60728 AU
minimum elong	3476 Sep 27 12:18	5° £ 15'09		inferior conj	3477 Sep 00 13:47 3477 Sep 09 20:37	18° Mp 25'58	
morning rise	3476 Oct 04 06:19	0° £ 20′12	2 20 12	minimum elong	3477 Sep 10 02:06	18° Mp 14'23	4°27'35
1101111115 1130	3476 Oct 04 00:19	0 <u>==</u> 2012 30°RMp		morning rise	3477 Sep 10 02:00 3477 Sep 17 07:27	13° Mp 38'30	1 27 33
direct	3476 Oct 05 12:07 3476 Oct 06 16:08	29° Mp 53'41		direct	3477 Sep 17 07.27 3477 Sep 19 16:27	13° Mp 16'23	
	3476 Oct 07 19:59	0° ت		asc. node	3477 Sep 26 01:44	16° Mp 03'41	
asc. node	3476 Oct 09 04:41	0° £ 23'33		morning max el	3477 Sep 26 01:44 3477 Sep 26 22:52	16° Mp 52'10	18°03'31
morning max el	3476 Oct 13 09:38	3° £ 20'37	17°50'47		3477 Oct 06 05:27	0° ©	10 0001
morning set	3476 Oct 29 12:23	28° £ 23'31	1, 20 1,	morning set	3477 Oct 10 03:27	0 — 11° Ω 51'11	
	3476 Oct 30 10:08	0°M			900 12 17.00		
				superior conj	3477 Oct 22 15:19	29° Ω 57'50	1°10'31
				1 · · · · · · · · · · · · · · · · · · ·			-

minimum elong	3477 Oct 22 19:33	0° M .16'34	1°10'01	morning set	3478 Sep 26 11:20	25° m 52'57	
minimum ciong	3477 Oct 22 15:49	0°M	1 1001	morning set	3478 Sep 28 14:13	0° ⊡	
max. Earth dist.	3477 Oct 30 06:36		1.41849 AU		5470 бер 20 14.15	° –	
desc. node	3477 Nov 02 10:13	18° M 19'48	1.11017110	superior conj	3478 Oct 05 05:58	12° ≏ 44'43	1°31'25
evening rise	3477 Nov 04 20:14	22°MJ14'18		minimum elong	3478 Oct 05 09:03	12° ♀ 59'09	1°31'10
	3477 Nov 09 18:32	0° ∡ ¹		max. Earth dist.	3478 Oct 12 12:58	25° ≏ 57'29	1.39831 AU
	3477 Nov 30 16:55	5°0			3478 Oct 14 21:03	0° M	
evening max el	3477 Dec 08 02:14	8° る 35'59	22°36'25	evening rise	3478 Oct 16 16:05	3°M02'25	
retrograde	3477 Dec 17 22:17	14° පි 26'34		desc. node	3478 Oct 20 07:15	9°ML02'25	
evening set	3477 Dec 22 14:12	12° る 32'47			3478 Nov 03 00:43	0° ∡ ¹	
asc. node	3477 Dec 23 01:00	12° පි 09'26		evening max el	3478 Nov 20 16:06	22° ҂ 13′28	23°56'21
inferior conj	3477 Dec 27 22:54	6° ප 11'01	1°36'32	retrograde	3478 Dec 01 14:46	28° ₰ ¹40'01	
minimum elong	3477 Dec 27 20:54	6° る 17'55	1°35'47	evening set	3478 Dec 06 19:49	26° ₰ ¹29'50	
min. Earth dist.	3477 Dec 27 18:28	6° ප 26'21	0.67963 AU	asc. node	3478 Dec 09 22:03	23° х 10′59	
morning rise	3478 Jan 02 03:28	0°る01'27		min. Earth dist.	3478 Dec 11 14:56	20° ∡ ¹56'32	0.67806 AU
	3478 Jan 02 04:10	30°₹ ⋌ ¹		inferior conj	3478 Dec 12 06:10	20° ҂ 04'52	0°47'28
direct	3478 Jan 06 17:00	28° ₹ 08'52		minimum elong	3478 Dec 12 05:04	20° ∡ 08'37	0°47'01
	3478 Jan 11 18:03	0° ප		morning rise	3478 Dec 17 14:20	14° ₹ 00'11	
morning max el	3478 Jan 15 20:33	3°₹30'38	21°56'45	direct	3478 Dec 21 13:59	12° ∡ ³30'17	
desc. node	3478 Jan 29 09:30	20° る 33'51		morning max el	3478 Dec 29 15:37	17° ∡ 08'37	20°38'06
	3478 Feb 04 21:34	0° ≈			3479 Jan 08 22:49	0° ප	
morning set	3478 Feb 17 13:39	19° ≈ 34'21		desc. node	3479 Jan 16 06:31	10° පි 36'05	
max. Earth dist.	3478 Feb 23 10:46	29°≈12'03	1.41321 AU	morning set	3479 Jan 27 16:09	27° る 56'07	
	3478 Feb 23 22:14	0° ℋ		P. 4. F.	3479 Jan 28 23:57	0° ≈	1 10150 177
	2470.14 02 04 04	120 1/27/26	2002100	max. Earth dist.	3479 Feb 05 16:32	12° ≈ 12'50	1.43178 AU
superior conj	3478 Mar 03 04:04	12° ¥ 27'36			2470 F 1 12 07 12	22001110	2006110
minimum elong	3478 Mar 03 07:00	12°) 40′33 0° °	2°02'54	superior conj	3479 Feb 12 06:12	23°≈01'10 22°≈54'32	
evening rise	3478 Mar 12 19:47 3478 Mar 13 17:53	0° γ 1° Υ 42'20		minimum elong	3479 Feb 12 04:37 3479 Feb 16 09:09	0° H	2 06 17
asc. node	3478 Mar 21 00:19	1 42 20 14° Υ 52'39		evening rise	3479 Feb 10 09:09 3479 Feb 24 09:32	13° ¥ 58'37	
evening max el	3478 Mar 30 00:58	27° Y 39'05	18°13'44	evening rise	3479 Mar 05 15:48	15 γ (38 37	
evening max er	3478 Apr 02 00:56	0° 8	16 13 44	asc. node	3479 Mar 07 21:22	3° Υ 31'05	
retrograde	3478 Apr 06 00:44	1° 8 09'29		evening max el	3479 Mar 13 12:49	10° Y 45'45	18°07'09
evening set	3478 Apr 08 13:02	0° 8 43'07		retrograde	3479 Mar 20 01:20	14° Y 08'41	10 0, 0,
e venning sec	3478 Apr 10 04:04	30°RY		evening set	3479 Mar 22 19:24	13° Y 31′56	
inferior conj	3478 Apr 15 12:45	25° Ƴ 58'04	2°55'19	inferior conj	3479 Mar 29 04:48	8° Y 26'33	3°28'27
minimum elong	3478 Apr 15 16:07	25° Y 50'36	2°54'37	minimum elong	3479 Mar 29 06:33	8° Y 22'06	3°28'16
min. Earth dist.	3478 Apr 18 22:07	22° Ƴ 59'49	0.59712 AU	min. Earth dist.	3479 Apr 01 04:43	5° Y 25'21	0.61875 AU
morning rise	3478 Apr 22 16:45	20° Ƴ 15'41		morning rise	3479 Apr 04 16:09	2° Y 27'36	
desc. node	3478 Apr 27 08:42	18° Ƴ 29'05		direct	3479 Apr 11 12:28	0° Υ 01'00	
direct	3478 Apr 29 03:23	18° Ƴ 20′21		desc. node	3479 Apr 14 05:45	0° Y 22′18	
morning max el	3478 May 13 11:37	26° Ƴ 10′03	27°28'02	morning max el	3479 Apr 25 15:55	7° Ƴ 58'40	27°51'05
	3478 May 17 01:50	9° 8			3479 May 12 12:23	9° 8	
	3478 Jun 06 00:46	$\Pi^{\circ}0$		morning set	3479 May 29 00:50	29° 8 50'08	
morning set	3478 Jun 13 21:42	15° Ⅱ 27'10			3479 May 29 02:46	$\Pi^{\circ}0$	
asc. node	3478 Jun 16 23:35	21° Ⅱ 58'50		asc. node	3479 Jun 03 20:38	12° Ⅱ 06'58	
max. Earth dist.	3478 Jun 20 09:37	29° Ⅱ 26′13	1.32077 AU	max. Earth dist.	3479 Jun 03 18:58	11° Ⅱ 58'00	1.32373 AU
	3478 Jun 20 15:45	0ංම			2470 1 07 11 21	150 110 110 1	0016174
	2470 1 21 21 -	0000000	0041142	superior conj	3479 Jun 05 11:21	15° Ⅱ 37'21	0°16'54
superior conj	3478 Jun 21 01:17	0°952'28	0°41'42	minimum elong	3479 Jun 05 10:34	15° Ⅱ 33'06	0°16'43
minimum elong	3478 Jun 20 23:33	0°542'58 15°545'31	0~41′21	evening rise	3479 Jun 12 08:45	0° ട്ട 35'47	
evening rise	3478 Jun 27 21:11	15°945′31 0° Ω			3479 Jun 12 02:02	0° U	
daga mada	3478 Jul 04 23:21	28° Ω 33'25		ovenina mov el	3479 Jun 28 12:54 3479 Jul 07 13:52	0 δι 10° Ω 56'16	24927145
desc. node	3478 Jul 24 07:57 3478 Jul 25 18:33	20 0 (33 23 0° m)		evening max el desc. node	3479 Jul 11 04:59	10 δι 30 10 14° Ω 02'03	24 27 43
evening max el	3478 Jul 25 23:07	رابات 10′55 0° ¶0 0°	25°53'48	retrograde	3479 Jul 21 10:57	14 ∂ €02 03	
retrograde	3478 Aug 08 22:32	7° Mp 19'00	23 33 70	evening set	3479 Jul 26 09:10	17° Ω 02'37	
evening set	3478 Aug 15 03:56	5° Mp 46'29		min. Earth dist.	3479 Aug 01 00:50	17 80 02 37 14° Ω 09'51	0.56767 AU
min. Earth dist.	3478 Aug 19 11:25		0.58660 AU	inferior conj	3479 Aug 03 17:55	12° Ω 26'18	
inferior conj	3478 Aug 22 17:16	0° Mp 48'04		minimum elong	3479 Aug 03 17:33	12°Ω30'22	
minimum elong	3478 Aug 22 20:07	0° Mp 42'50		morning rise	3479 Aug 12 00:14	8° Ω 23'19	
8	3478 Aug 23 19:45	30°R Ω	-	direct	3479 Aug 14 16:02	8° Ω 04'08	
morning rise	3478 Aug 30 14:32	26° Ω 23'51		morning max el	3479 Aug 24 03:34	12° Ω 29'16	19°31'05
direct	3478 Sep 02 01:44	26° Ω 03'58		asc. node	3479 Aug 30 19:51	20° Ω 46′09	
morning max el	3478 Sep 10 05:53	29° Ω 58'18	18°36'35		3479 Sep 05 05:51	0° m	
	3478 Sep 10 06:36	0° m		morning set	3479 Sep 10 12:52	10° m 18'02	
asc. node	3478 Sep 12 22:48	2° Mp 56'20					

superior conj	3479 Sep 18 12:51	26° m) 19'41	1°42'13	morning max el	3480 Aug 05 13:46	24° © 17'32	20°46'44
minimum elong	3479 Sep 18 14:13	26° m/26'21	1°42'10		3480 Aug 10 15:14	$0^{\circ}\Omega$	
	3479 Sep 20 10:03	0∘ ⊽		asc. node	3480 Aug 16 16:53	9° Ω 20'08	
max. Earth dist.	3479 Sep 24 17:05	8° ≏ 07'06	1.37756 AU	morning set	3480 Aug 24 19:49	24° Ω 59'13	
evening rise	3479 Sep 28 11:13	14° £ 54'57			3480 Aug 27 05:53	0° m)	
desc. node	3479 Oct 07 04:16	29° £ 36'38					
	3479 Oct 07 10:05	0°M		superior conj	3480 Sep 01 07:21	10° Mp 29'19	1°44'33
avanina may al	3479 Oct 28 17:59 3479 Nov 03 04:20	0°⊀ 5°.₹52!56	25°12'41	minimum elong max. Earth dist.	3480 Sep 01 07:06	10° Mp 28'02 19° Mp 58'54	1°44'33 1.35868 AU
evening max el retrograde	3479 Nov 15 03:03	5° ₹ 53'56 12° ₹ 48'21	23 1241	evening rise	3480 Sep 06 00:57 3480 Sep 10 02:23	27° Mp 44'19	1.33606 AU
evening set	3479 Nov 13 03:03 3479 Nov 20 21:58	10° × 23'13		evening rise	3480 Sep 10 02:23	0° ⊡	
min. Earth dist.	3479 Nov 25 09:14	5°×724'09	0.67306 AU	desc. node	3480 Sep 23 01:18	o — 19° Ω 57'37	
inferior conj	3479 Nov 26 11:14	3° ∡ 759′29			3480 Sep 29 17:40	0° M	
minimum elong	3479 Nov 26 11:24	3° ∡ ¹58'56	0°06'39	evening max el	3480 Oct 15 16:43	19°M35'21	26°17'58
transit middle	3479 Nov 26 11:24	3° ∡ ¹58'56	0°06'39	retrograde	3480 Oct 28 10:23	26°M46'12	
transit begin	3479 Nov 26 08:52	4° ∡ 07'12		evening set	3480 Nov 03 18:49	24°M09'42	
transit end	3479 Nov 26 13:56	3° ≯ 50'40		min. Earth dist.	3480 Nov 07 23:00	19°M46'03	0.66465 AU
asc. node	3479 Nov 26 19:05	3° ∡ ³33'55		inferior conj	3480 Nov 09 12:13	17°M52'00	
	3479 Nov 29 18:26	30°RM		minimum elong	3480 Nov 09 13:58	17°M46'38	1°04'05
morning rise	3479 Dec 02 01:05	28°M01'45 26°M52'12		asc. node	3480 Nov 12 16:06	14°M15'06 12°M03'53	
direct	3479 Dec 05 12:26 3479 Dec 11 18:34	20 IIG32 12 0° ₹		morning rise direct	3480 Nov 15 09:40 3480 Nov 18 10:49	12 IILUS 33 11°ML11'06	
morning max el	3479 Dec 11 18:34 3479 Dec 12 18:31	0° ∡ ¹57'15	19°32'25	morning max el	3480 Nov 18 10.49 3480 Nov 25 04:22	14°ML53'32	18°42'07
greatest brilliancy	3479 Dec 25 22:44	18° × ⁷ 27'57		morning max cr	3480 Dec 06 08:48	0° ⊼ ¹	10 42 07
8	3480 Jan 02 12:58	0°る		morning set	3480 Dec 16 05:27	15° ∡ ¹28'56	
desc. node	3480 Jan 03 03:32	0° る 55'55		desc. node	3480 Dec 20 00:33	21° ∡ °28'33	
morning set	3480 Jan 06 13:14	6° る 10'55			3480 Dec 25 10:31	ರ°0	
max. Earth dist.	3480 Jan 19 04:54	25° ප 57'11	1.44513 AU				
	3480 Jan 21 18:00	0° ≈		superior conj	3481 Jan 01 11:20	11° る 02'26	
				minimum elong	3481 Jan 01 02:29		1°17'12
superior conj	3480 Jan 23 06:17	2°≈25'03		max. Earth dist.	3480 Dec 31 22:13	10° ට 10'55	1.45180 AU
minimum elong	3480 Jan 22 22:56 3480 Feb 06 05:05	1°≈55'35 25°≈20'19	1°51′19	avanina rias	3481 Jan 13 11:20 3481 Jan 17 01:33	0° ≈ 5° ≈ 44'27	
evening rise	3480 Feb 08 03:03	23 ≈ 20 19 0° ∀		evening rise greatest brilliancy	3481 Jan 24 15:35	3 ≈44 27 17°≈53'57	-0.9m
asc. node	3480 Feb 22 18:24	21° ¥ 29'53		greatest orimancy	3481 Feb 01 12:37	0° \	-0.9111
evening max el	3480 Feb 25 01:26	24°) 05'29	18°19'37	evening max el	3481 Feb 07 12:19	7°) 32'34	18°50'07
retrograde	3480 Mar 02 12:25	27° ∺ 34'25		asc. node	3481 Feb 08 15:25	8° ∺ 37'29	
evening set	3480 Mar 05 12:11	26°) 46′11		retrograde	3481 Feb 14 06:02	11°) 18′58	
inferior conj	3480 Mar 11 11:07	21° ∺ 21'53	3°38'31	evening set	3481 Feb 17 12:04	10° ∺ 18'17	
minimum elong	3480 Mar 11 11:05	21° ∺ 21'57		inferior conj	3481 Feb 23 03:49		3°31'19
min. Earth dist.	3480 Mar 13 20:39	18° ∺ 39'17	0.63842 AU	minimum elong	3481 Feb 23 02:25	4°) 41′02	
morning rise	3480 Mar 17 09:08	15°) 14′10		min. Earth dist.	3481 Feb 24 21:44	2° ₩ 27'14	0.65468 AU
direct desc. node	3480 Mar 24 06:06	12° ∺ 28'03 14° ∺ 43'56			3481 Feb 27 01:05	30°R≈ 28°≈24'49	
morning max el	3480 Mar 31 02:46 3480 Apr 07 00:19	20°\(\frac{14}{25}\)'01	27°37'03	morning rise direct	3481 Feb 28 16:21 3481 Mar 07 06:45	28 ≈24 49 25°≈33'39	
morning max cr	3480 Apr 15 06:15	0°Υ	27 37 03	uncet	3481 Mar 16 20:10	0° ∀	
	3480 May 04 13:21	0°8		desc. node	3481 Mar 17 23:46	0° ¥ 59'20	
morning set	3480 May 11 20:47	13° 8 48'44		morning max el	3481 Mar 20 10:04	3° ∺ 18′00	26°50'34
max. Earth dist.	3480 May 16 21:45	24° 8 06'19	1.33095 AU		3481 Apr 09 14:16	$0^{\circ}\mathbf{\Upsilon}$	
				morning set	3481 Apr 25 06:13	27° Ƴ 12'01	
superior conj	3480 May 19 17:59	0° Ⅱ 08'01			3481 Apr 26 17:05	0° 8	
minimum elong	3480 May 19 18:30	0° Ⅱ 10'46	0°10'14	max. Earth dist.	3481 Apr 29 14:18	5° 8 41'50	1.34279 AU
behind sun begin	3480 May 19 14:21	29° 8 48'36			2401 M 02 10 50	140017150	0020100
behind sun end	3480 May 19 22:38 3480 May 19 16:29	0° П 32'57 0° П		superior conj minimum elong	3481 May 03 18:59 3481 May 03 21:01	14° 8 16'52 14° 8 27'28	
asc. node	3480 May 20 17:41	2° Ⅱ 15'06		asc. node	3481 May 07 14:42	22° 8 18'23	0 38 34
evening rise	3480 May 26 20:27	15° I I22'38		evening rise	3481 May 11 06:19	29° 8 58'53	
	3480 Jun 03 04:08	0°95			3481 May 11 06:32	0°II	
evening max el	3480 Jun 18 03:28	21° © 22'33	22°51'16		3481 May 29 01:32	0ංම 	
desc. node	3480 Jun 27 02:01	27° © 16'39		evening max el	3481 May 30 23:35	2° 5 00'38	21°19'15
retrograde	3480 Jul 01 10:57	28°500'22		retrograde	3481 Jun 12 00:44	7° 9 55'20	
evening set	3480 Jul 04 20:42	27° © 34'56		desc. node	3481 Jun 13 23:02	7° 5 46'44	
min. Earth dist.	3480 Jul 12 12:05	24°511'53	0.55398 AU	evening set	3481 Jun 14 08:34	7°542'54	
inferior conj	3480 Jul 13 23:36	23°520'44		inferior conj	3481 Jun 23 17:50	3°543'54	
minimum elong	3480 Jul 13 15:58	23°931'45	4~18'13	minimum elong	3481 Jun 23 10:25	3°954'18	
morning rise direct	3480 Jul 22 13:31 3480 Jul 25 11:59	19° © 29'11 19° © 09'00		min. Earth dist.	3481 Jun 23 23:22 3481 Jul 01 17:10	3°©36'09 30°R∏	0.54853 AU
uncci	5400 Jul 25 11:59	17 2009'00			5401 Jul 01 17:10	30 KT	

morning rise	3481 Jul 02 12:47	29° ∏ 46'59		min. Earth dist.	3482 Jun 05 12:02	12° Ⅱ 56'57	0.55269 AU
direct	3481 Jul 05 22:02	29° Ⅱ 22'09		morning rise	3482 Jun 12 08:01	9° Ⅱ 43'42	
	3481 Jul 09 23:53	0 \circ \odot		direct	3482 Jun 16 10:48	9° Ⅱ 06'45	
morning max el	3481 Jul 18 12:36	5° 5 20'48	22°20'19	morning max el	3482 Jun 30 04:05	15° Ⅱ 52'04	24°03'11
asc. node	3481 Aug 03 13:55	28° © 26'51			3482 Jul 11 10:19	0 \circ \odot	
	3481 Aug 04 09:22	$0^{\circ}\Omega$		asc. node	3482 Jul 21 10:58	17° 9 57'55	
morning set	3481 Aug 09 06:00	9° Ω 49'37		morning set	3482 Jul 24 17:40	24° 5 644'09	
					3482 Jul 27 04:47	$0^{\circ}\Omega$	
superior conj	3481 Aug 16 09:46	25° Ω 01'56	1°39'54				
minimum elong	3481 Aug 16 08:19	24° Ω 54'15	1°39'49	superior conj	3482 Jul 31 17:26	9° Ω 49'18	1°29'28
	3481 Aug 18 18:36	0° ™		minimum elong	3482 Jul 31 15:17	9° Ω 37'38	1°29'13
max. Earth dist.	3481 Aug 19 17:12	1°Mp 56'51	1.34318 AU	max. Earth dist.	3482 Aug 02 18:26	14° Ω 13′08	1.33164 AU
evening rise	3481 Aug 24 09:00	11° m)17'29		evening rise	3482 Aug 08 03:01	25° Ω 23'17	
	3481 Sep 03 16:45	0∘ ⊽			3482 Aug 10 10:42	0° m)	
desc. node	3481 Sep 09 22:21	9° Ω 58'12		desc. node	3482 Aug 27 19:22	29° m 29'47	
	3481 Sep 25 03:15	0°M			3482 Aug 28 03:45	0∘ ⊽	
evening max el	3481 Sep 28 05:19	3°M09'05	27°04'43	evening max el	3482 Sep 10 16:40	16° ≏ 22'55	27°25'49
retrograde	3481 Oct 11 12:00	10°M26'09		retrograde	3482 Sep 24 07:27	23° Ω 39'54	
evening set	3481 Oct 18 08:09	7°M44'20	0.65070 411	evening set	3482 Oct 01 11:09	21° ⊆ 01'44	0.62724.444
min. Earth dist.	3481 Oct 22 05:49	3°M56'36		min. Earth dist.	3482 Oct 05 03:27	17° £ 47'41	0.63734 AU
inferior conj	3481 Oct 24 07:00	1°M37'38		inferior conj	3482 Oct 07 17:02	15° £ 10'25	
minimum elong	3481 Oct 24 10:29	1°M27'48	2*03*50	minimum elong	3482 Oct 07 22:05	14° £ 57'31	3°03'40
marning rise	3481 Oct 25 18:11 3481 Oct 30 13:42	30° R		morning rise direct	3482 Oct 14 10:18	9° £ 51'19 9° £ 20'49	
morning rise asc. node	3481 Oct 30 13:42 3481 Oct 30 13:07	26° £ 02'17 26° £ 02'59		asc. node	3482 Oct 16 22:08 3482 Oct 17 10:10	9° £ 20'49	
direct	3481 Nov 02 06:56	26 ⊆ 02 39 25° ⊆ 22'27		morning max el	3482 Oct 17 10:10 3482 Oct 23 11:27	9 = 22 03 12° £ 46'02	17°52'06
morning max el	3481 Nov 08 18:56	23 = 22 27 28° £ 51'56	18°08'29	morning max er	3482 Nov 04 07:09	0°M	17 32 00
morning max ci	3481 Nov 09 20:39	0°M	16 06 29	morning set	3482 Nov 09 03:26	8°ML20'19	
morning set	3481 Nov 27 03:09	26°M16'07		morning set	3402 1107 07 03.20	0 1102017	
morning set	3481 Nov 29 09:39	20° II 0 10 07		superior conj	3482 Nov 21 15:12	29°M26'13	0°14'44
desc. node	3481 Dec 06 21:35	12° ₹ 09'56		minimum elong	3482 Nov 21 16:47	29°M32'43	0°14'31
desc. Hode	3 101 Dec 00 21.33	12 7 07 50		behind sun begin	3482 Nov 21 12:28	29°ML15'01	0 1131
superior conj	3481 Dec 11 15:53	19° ∡ ⁴45'26	-0°32'04	behind sun end	3482 Nov 21 21:06	29°M50'23	
minimum elong	3481 Dec 11 11:49	19° ∡ "29′22			3482 Nov 21 23:27	0° ∡ 7	
max. Earth dist.	3481 Dec 14 17:46	24° ₹ ³37'04	1.45103 AU	desc. node	3482 Nov 23 18:37	2° ₹ ¹55'53	
	3481 Dec 18 04:06	5°0		max. Earth dist.	3482 Nov 27 12:02	8° ∡ ¹55'27	1.44299 AU
evening rise	3481 Dec 28 00:21	15° る 19'23		evening rise	3482 Dec 07 10:25	24° ∡ °28'14	
-	3482 Jan 06 12:32	0° ≈		-	3482 Dec 11 01:07	0°ರ	
greatest brilliancy	3482 Jan 09 18:35	4° ≈ 56'05	-0.7m		3482 Dec 31 21:19	0° ≈	
evening max el	3482 Jan 21 19:23	21° ≈ 03′23	19°37'11	evening max el	3483 Jan 04 21:11	4° ≈ 35'01	20°38'43
asc. node	3482 Jan 26 12:25	24° ≈ 40′29		retrograde	3483 Jan 13 01:15	9° ≈ 24'17	
retrograde	3482 Jan 29 03:08	25° ≈ 17'19		asc. node	3483 Jan 13 09:27	9° ≈ 23'39	
evening set	3482 Feb 01 16:34	24° ≈ 03'05		evening set	3483 Jan 16 23:35	7° ≈ 55'29	
inferior conj	3482 Feb 07 03:49	18° ≈ 06′16	3°11'05	inferior conj	3483 Jan 22 08:29	1° ≈ 46′08	2°40'40
minimum elong	3482 Feb 07 01:35	18° ≈ 13'37	3°10'39	minimum elong	3483 Jan 22 05:57	1° ≈ 54'46	2°39'59
min. Earth dist.	3482 Feb 08 06:54	16° ≈ 37'08	0.66685 AU	min. Earth dist.	3483 Jan 22 22:17	0° ≈ 58'56	0.67484 AU
morning rise	3482 Feb 12 10:22	11° ≈ 52'49			3483 Jan 23 15:40	30°Ŗる	
direct	3482 Feb 18 13:15	9° ≈ 09'16		morning rise	3483 Jan 27 12:09	25° පි 32'46	
morning max el	3482 Mar 02 19:18	16° ≈ 27'05	25°39'58	direct	3483 Feb 02 00:54	23° る 05'46	
desc. node	3482 Mar 04 20:47	18°≈37'32		morning max el	3483 Feb 13 03:53	29° る 44'02	24°15'06
	3482 Mar 14 01:10	0°) €			3483 Feb 13 10:10	0° ≈	
	3482 Apr 02 12:17	0° Υ		desc. node	3483 Feb 19 17:50	7°≈14'22	
morning set	3482 Apr 08 00:59	9° Υ 48'11	1 25022 ATT	. ,	3483 Mar 07 21:48	0° ∺	
max. Earth dist.	3482 Apr 11 19:31	16° Ƴ 50′22	1.35923 AU	morning set	3483 Mar 20 23:30	21°) 21'54	1 27022 ATT
aumariar aani	2492 Apr. 17 11:47	27° Ƴ 56'49	1907125	max. Earth dist.	3483 Mar 24 16:26	27° ¥ 55′02 0° Y	1.37933 AU
superior conj minimum elong	3482 Apr 17 11:47 3482 Apr 17 15:19	27 γ 3649 28° γ 14'35			3483 Mar 25 20:03	0 1	
minimum ciong	3482 Apr 18 12:15	0° 8	1 00 38	superior conj	3483 Mar 31 16:59	10° Ƴ 58'38	1°33'50
asc. node	3482 Apr 24 11:45	12° 8 12'55		minimum elong	3483 Mar 31 21:31	10 γ 38 38 11° γ 20'26	1°33'24
evening rise	3482 Apr 25 12:21	12 8 1233		evening rise	3483 Apr 09 12:03	28° Υ 14'07	1 23 47
Croning Hac	3482 May 03 16:43	0° Ⅱ		evening 11se	3483 Apr 10 09:33	0°8	
evening max el	3482 May 13 07:04	13° Ⅱ 13'09	20°01'59	asc. node	3483 Apr 11 08:47	1° 8 53'44	
retrograde	3482 May 23 15:25	18° Ⅱ 15'10	20 0107	evening max el	3483 Apr 26 02:14	25° 8 06'13	19°04'01
evening set	3482 May 25 14:46	18° Ⅱ 04'59		retrograde	3483 May 04 19:27	29° 8 20'59	1, 0101
desc. node	3482 May 31 20:02	15° Ⅱ 41'54		evening set	3483 May 06 21:33	29° 8 07'22	
inferior conj	3482 Jun 03 14:33	14° ∏ 05'11	-0°49'07	inferior conj	3483 May 15 02:51	24° 8 53'58	1°01'33
minimum elong	3482 Jun 03 12:16	14° Ⅱ 08'38		minimum elong	3483 May 15 05:12	24° 8 49'53	1°00'45
			*		, vo2	• ., .,	-

min. Earth dist.	3483 May 18 03:23	22° 8 49'24	0.56562 AU	min. Earth dist.	3484 Apr 28 22:59	3° X 37'54	0.58472 AU
desc. node	3483 May 18 17:03	22° 8 27'01	0.30302710	morning rise	3484 May 03 02:40	0° 8 54'48	0.50472710
morning rise	3483 May 23 09:43	19° 8 57'03		desc. node	3484 May 04 14:05	0° 8 14'18	
direct	3483 May 28 11:52	18° 8 56'10			3484 May 05 05:33	30° R Υ	
morning max el	3483 Jun 11 18:31	26° 8 17'06	25°41'05	direct	3484 May 09 03:31	29° Ƴ 19'44	
5 5	3483 Jun 15 07:16	0°П			3484 May 13 03:28	0°8	
	3483 Jul 04 12:03	0°©		morning max el	3484 May 23 12:57	7° 8 02'44	26°58'04
asc. node	3483 Jul 08 08:03	7° 5 346'24		Ü	3484 Jun 09 16:46	0°II	
morning set	3483 Jul 09 05:12	9° © 37'32		morning set	3484 Jun 22 14:54	24° ∏ 23'42	
S				asc. node	3484 Jun 24 05:06	27° Ⅱ 46′07	
superior conj	3483 Jul 16 04:07	24° © 44'18	1°14'07		3484 Jun 25 06:01	0ം ഉ	
minimum elong	3483 Jul 16 01:46	24° © 31'22	1°13'45				
max. Earth dist.	3483 Jul 17 02:27	26°5946'42	1.32415 AU	superior conj	3484 Jun 29 15:56	9° 5 40'00	0°54'36
	3483 Jul 18 13:52	$0^{\circ}\Omega$		minimum elong	3484 Jun 29 13:51	9° © 28'31	0°54'12
evening rise	3483 Jul 23 05:06	9° Ω 52'00		max. Earth dist.	3484 Jun 29 13:49	9° © 28'22	1.32078 AU
-	3483 Aug 02 18:00	o° mp		evening rise	3484 Jul 06 12:34	24°534'40	
desc. node	3483 Aug 14 16:22	18° m 20'31		-	3484 Jul 09 03:22	$0^{\circ}\Omega$	
evening max el	3483 Aug 24 00:25	29° Mp 04'04	27°16'00		3484 Jul 26 16:07	0° m y	
_	3483 Aug 25 00:42	0° ⊽		desc. node	3484 Jul 31 13:24	6° Mp 12′46	
retrograde	3483 Sep 06 20:20	6° ₽ 18'33		evening max el	3484 Aug 05 02:09	11° m 00'51	26°32'52
evening set	3483 Sep 14 00:11	3° ჲ 56'05		retrograde	3484 Aug 19 01:20	18° m)11'57	
min. Earth dist.	3483 Sep 17 14:43	1° ≏ 08'14	0.61885 AU	evening set	3484 Aug 25 18:29	16° m 18'29	
	3483 Sep 18 21:14	30°₽, Т р		min. Earth dist.	3484 Aug 29 15:46	13° m 42'47	0.59838 AU
inferior conj	3483 Sep 20 15:21	28° Mp 23'34	-4°01'10	inferior conj	3484 Sep 01 22:22	11° m 06'58	-4°45'34
minimum elong	3483 Sep 20 21:09	28° Mp 10'22	3°59'39	minimum elong	3484 Sep 02 03:06	10° m 57'33	4°44'51
morning rise	3483 Sep 27 19:51	23° Mp 24'01		morning rise	3484 Sep 09 13:49	6° ™ 29'30	
direct	3483 Sep 30 04:56	22° m 59'43		direct	3484 Sep 11 23:14	6° Mp 08'43	
asc. node	3483 Oct 04 07:14	24° Mp 14'18		morning max el	3484 Sep 19 13:59	9° m 51'21	18°15'02
morning max el	3483 Oct 07 02:55	26° Mp 29'06	17°53'52	asc. node	3484 Sep 20 04:18	10° m 27'07	
	3483 Oct 10 03:59	0∘ ত			3484 Oct 02 18:09	0∘ ত	
morning set	3483 Oct 23 00:04	21° ≏ 22'46		morning set	3484 Oct 05 11:12	5° ≏ 06'18	
	3483 Oct 27 18:45	0° M.					
				superior conj	3484 Oct 14 20:08	22° ≏ 38′02	1°20'42
superior conj	3483 Nov 02 17:20	10°M26'16	0°53'21	minimum elong	3484 Oct 15 00:01	22° ≏ 55'40	1°20'17
minimum elong	3483 Nov 02 21:27	10°M43'59	0°52'47		3484 Oct 18 23:05	0° M ₊	
max. Earth dist.	3483 Nov 10 01:59	22°M47'39	1.42876 AU	max. Earth dist.	3484 Oct 22 10:25	6°ML00'01	1.41014 AU
desc. node	3483 Nov 10 15:40	23°M43'30		evening rise	3484 Oct 27 06:13	14°ML02'29	
	3483 Nov 14 13:10	0°⊀		desc. node	3484 Oct 27 12:41	14°M28'54	
evening rise	3483 Nov 16 23:36	3° ≯ 50'45			3484 Nov 06 10:24	0° ∡	
	3483 Dec 04 11:16	0°ප			3484 Nov 28 17:40	0°ප	
evening max el	3483 Dec 18 17:27	18° る 07'43	21°51'21	evening max el	3484 Nov 30 09:11	1°る43'06	23°10'25
retrograde	3483 Dec 27 22:24	23° る 36'28		retrograde	3484 Dec 10 16:57	7° る 50'07	
asc. node	3483 Dec 31 06:29	22° る 36'13		evening set	3484 Dec 15 14:11	5° る 49'32	
evening set	3484 Jan 01 07:21	21° る 52'04		asc. node	3484 Dec 17 03:32	4° る 19'29	
inferior conj	3484 Jan 06 15:40	15° る 33'35	2°02'01	inferior conj	3484 Dec 20 23:26	29° ∡ ¹25'47	1°16'27
minimum elong	3484 Jan 06 13:21	15° る 41'38	2°01'13	minimum elong	3484 Dec 20 21:46	29° х 31'31	1°15'47
min. Earth dist.	3484 Jan 06 17:36	15° る 26'50	0.67893 AU	min. Earth dist.	3484 Dec 20 14:26	29° ₹ 56'46	0.67939 AU
morning rise	3484 Jan 11 19:11	9° ප 21'56			3484 Dec 20 13:29	30°R ✓	
direct	3484 Jan 16 17:02	7° る 16'15		morning rise	3484 Dec 26 05:15	23° ∡ 17'45	
morning max el	3484 Jan 26 13:50	13° る 06'42	22°46'06	direct	3484 Dec 30 12:41	21° ∡ ³34'54	
desc. node	3484 Feb 06 14:53	26° る 33'10		morning max el	3485 Jan 08 04:35	26° ∡ 37'30	21°21'47
	3484 Feb 09 02:47	0° ≈			3485 Jan 11 06:40	0°₹	
	3484 Feb 28 19:49	0° ∀		desc. node	3485 Jan 23 11:55	16° る 22'01	
morning set	3484 Feb 29 19:42	1° ∺ 38′05			3485 Feb 01 15:54	0° ≈	
max. Earth dist.	3484 Mar 05 11:49	9° ∺ 28'53	1.40105 AU	morning set	3485 Feb 08 11:07	10° ≈ 33'15	
	240435 - 12	2261/1	1055000	max. Earth dist.	3485 Feb 15 12:37	21°≈55'53	1.42159 AU
superior conj	3484 Mar 13 06:18	23°) 12′07			3485 Feb 20 08:35	0° ℋ	
minimum elong	3484 Mar 13 10:30	23°) €31'13	1°54'42				
	3484 Mar 16 22:44	0°Υ		superior conj	3485 Feb 22 22:42	4°) € 25'32	
evening rise	3484 Mar 23 02:23	11° Υ 38'05		minimum elong	3485 Feb 23 00:04	4°) (31′26	2°06'17
asc. node	3484 Mar 28 05:50	21°Υ15'45		evening rise	3485 Mar 06 03:31	24°) (21'31	
	3484 Apr 02 08:54	0°8			3485 Mar 09 06:12	0° Υ	
evening max el	3484 Apr 08 06:37	7° 8 35'28	18°26'22	asc. node	3485 Mar 15 02:52	10° Y 12′28	
retrograde	3484 Apr 15 18:09	11° 8 17'11		evening max el	3485 Mar 22 16:46	20° Y 31'43	18°08'39
evening set	3484 Apr 18 02:39	10° 8 56'18		retrograde	3485 Mar 29 10:22	23° Y 56'51	
inferior conj	3484 Apr 25 12:25	6° 8 23'36		evening set	3485 Apr 01 01:14	23° Y 26′12	
minimum elong	3484 Apr 25 16:11	6° 8 15'58	2°22'11	inferior conj	3485 Apr 07 18:23	18° Ƴ 32'41	3°12'36

minimum elong	3485 Apr 07 21:10	18° Ƴ 26'10	3°12'08	min. Earth dist.	3486 Mar 24 11:03	28°) (17'47	0.62751 AU
min. Earth dist.	3485 Apr 11 00:51	15° Y 29'59	0.60643 AU	morning rise	3486 Mar 27 22:13	25°) €09'56	
morning rise	3485 Apr 14 14:59	12° Y 42'18		direct	3486 Apr 03 19:57	22°) ₹33′30	
direct	3485 Apr 21 07:08	10° Ƴ 32'14		desc. node	3486 Apr 08 08:08	23°) 32′11	
desc. node	3485 Apr 21 11:07	10° Ƴ 32'18			3486 Apr 17 07:07	0 ° Υ	
morning max el	3485 May 05 13:34	18° Ƴ 26′22	27°42'26	morning max el	3486 Apr 17 19:44	0° Ƴ 31'06	27°49'29
	3485 May 15 06:36	9° 8			3486 May 09 08:27	9° 8	
	3485 Jun 02 09:45	Π °0		morning set	3486 May 21 21:21	23° 8 10'01	
morning set	3485 Jun 06 21:01	8° Ⅱ 57'04			3486 May 25 05:00	Π °0	
asc. node	3485 Jun 11 02:09	17° Ⅱ 52'35		max. Earth dist.	3486 May 27 08:05	4° Ⅱ 30′39	1.32631 AU
max. Earth dist.	3485 Jun 13 01:01	22° ∏ 07'33	1.32149 AU	asc. node	3486 May 28 23:11	8° Ⅱ 00'50	
superior conj	3485 Jun 14 03:08	24° Ⅱ 30'45	0°31'32	superior conj	3486 May 29 11:56	9° Ⅱ 09'53	0°05'36
minimum elong	3485 Jun 14 01:46	24° Ⅲ 23'13	0°31'15	minimum elong	3486 May 29 11:40	9° Ⅱ 08'26	0°05'33
	3485 Jun 16 15:03	0 \circ \odot		behind sun begin	3486 May 29 06:45	8° Ⅱ 41'48	
evening rise	3485 Jun 20 23:13	9° 5 24'25		behind sun end	3486 May 29 16:36	9°Ⅱ35′05	
	3485 Jul 01 13:21	0 ° Ω		evening rise	3486 Jun 05 11:03	24° Ⅱ 13'47	
evening max el	3485 Jul 17 20:40	22° Ω 10′19	25°19'37		3486 Jun 08 05:25	0 \circ \odot	
desc. node	3485 Jul 18 10:25	22° Ω 42'37			3486 Jun 26 19:29	$0^{\circ}\Omega$	
retrograde	3485 Jul 31 20:11	29° Ω 15'56		evening max el	3486 Jun 29 10:05	2° Ω 43'31	23°47'01
evening set	3485 Aug 06 13:29	28° Ω 00'17		desc. node	3486 Jul 05 07:25	7° Ω 18'17	
min. Earth dist.	3485 Aug 11 08:32		0.57813 AU	retrograde	3486 Jul 13 02:45	9° Ω 36′07	
inferior conj	3485 Aug 14 10:42	23° Ω 11'12		evening set	3486 Jul 17 09:29	8° Ω 55'48	
minimum elong	3485 Aug 14 11:32	23° Ω 09'46	5°07'17	min. Earth dist.	3486 Jul 23 20:20	5° Ω 51'51	0.56106 AU
morning rise	3485 Aug 22 11:57	18° Ω 56'12		inferior conj	3486 Jul 26 02:46	4° Ω 29'34	
direct	3485 Aug 25 00:47	18° Ω 36'46		minimum elong	3486 Jul 25 21:43	4° Ω 37'15	4°50'37
morning max el	3485 Sep 02 17:17	22° Ω 43'06	18°57'03	morning rise	3486 Aug 03 12:29	0° Ω 33'01	
asc. node	3485 Sep 07 01:21	27° Ω 45′26		direct	3486 Aug 06 07:06	0° Ω 13'31	
	3485 Sep 08 14:53	0° m)		morning max el	3486 Aug 16 10:04	4° Ω 55'24	20°00'48
morning set	3485 Sep 19 08:27	19° m 18'42		asc. node	3486 Aug 24 22:23	15° Ω 55'02	
	3485 Sep 24 18:39	0∘ ⊽		_	3486 Sep 01 14:35	0° т р	
	2405.0 27.10.16	50.0 46120	1025105	morning set	3486 Sep 03 12:33	3°My51'17	
superior conj	3485 Sep 27 18:16	5° Ω 46'30	1°37'07		2406 0 11 06 22	100 7 27112	1044100
minimum elong	3485 Sep 27 20:38	5° Ω 57'50	1°36'58	superior conj	3486 Sep 11 06:33	19° Mp 37'12	1°44'09
max. Earth dist.	3485 Oct 04 15:15	18° £ 30'51	1.38946 AU	minimum elong	3486 Sep 11 07:11	19° ™ 40'23 0° ₽	1°44'08
evening rise	3485 Oct 08 12:12 3485 Oct 11 06:40	25° ≙ 18′26 0° IL		max. Earth dist.	3486 Sep 16 14:04	0° 亞 31'19	1.36921 AU
desc. node	3485 Oct 11 00:40	5°M08'22			3486 Sep 16 20:40 3486 Sep 20 16:19	0 ≗ 31 19 7° ჲ 36'00	1.30921 AU
desc. node	3485 Oct 31 02:53	3 11608 22 0° √ 1		evening rise desc. node	3486 Oct 01 06:45	7 ≗ 36 00 25° ≗ 37'34	
evening max el	3485 Nov 12 22:18		24°29'44	desc. Hode	3486 Oct 04 01:44	0°M	
retrograde	3485 Nov 24 07:38	22°× 01'33	24 2944	evening max el	3486 Oct 26 10:35	29°M04'23	25°42'16
evening set	3485 Nov 29 18:30	19° х 44'59		evening max er	3486 Oct 27 09:56	20° √ 1	23 42 10
asc. node	3485 Dec 04 00:34	14°×758'09		retrograde	3486 Nov 07 17:44	6° ∡ ¹06'28	
min. Earth dist.	3485 Dec 04 10:17	14° 🖈 25'59	0.67640 AU	evening set	3486 Nov 13 18:38	3°×735'53	
inferior conj	3485 Dec 05 05:59	13°×20'10	0°25'05	evening sec	3486 Nov 17 04:53	30°RM	
minimum elong	3485 Dec 05 05:22	13°×22'12	0°24'49	min. Earth dist.	3486 Nov 18 02:51	28°M51'58	0.66993 AU
morning rise	3485 Dec 10 16:18	7°×18'00	0 2	inferior conj	3486 Nov 19 09:33	27°M14'24	
direct	3485 Dec 14 10:35	5° ∡ 756'55		minimum elong	3486 Nov 19 10:21	27°M11'50	
morning max el	3485 Dec 22 02:51	10° √ 19'28	20°08'17	asc. node	3486 Nov 20 21:35	25°M21'58	
C	3486 Jan 05 23:56	8°0		morning rise	3486 Nov 25 02:24	21°M20'36	
desc. node	3486 Jan 10 08:57	6° る 32'23		direct	3486 Nov 28 09:14	20°M18'32	
morning set	3486 Jan 18 08:04	18° る 42'05		morning max el	3486 Dec 05 08:59	24°M12'15	19°09'08
Ü	3486 Jan 25 13:41	0° ≈		, and the second	3486 Dec 10 06:20	0°⊀	
max. Earth dist.	3486 Jan 28 21:35	5°≈17'41	1.43826 AU	morning set	3486 Dec 28 11:06	27° ∡ 18'31	
				desc. node	3486 Dec 28 05:59	26° ₹ 58'37	
superior conj	3486 Feb 03 13:41	14° ≈ 28'49	-2°02'34		3486 Dec 30 04:36	0° ට	
minimum elong	3486 Feb 03 09:32	14° ≈ 11'50	2°02'24	max. Earth dist.	3487 Jan 11 13:07	19° ප 19'36	1.44889 AU
	3486 Feb 12 19:53	0°) €					
evening rise	3486 Feb 16 11:04	6°) 1 4′59		superior conj	3487 Jan 14 04:10	23° る 28'37	-1°39'42
asc. node	3486 Mar 01 23:53	28°) ₹35′03		minimum elong	3487 Jan 13 19:19	22° る 53'35	1°38'56
	3486 Mar 03 00:42	$0^{\circ}\mathbf{\Upsilon}$			3487 Jan 18 06:31	0° ≈	
evening max el	3486 Mar 06 05:20	3° Y 44'50	18°10'12	evening rise	3487 Jan 28 21:08	17° ≈ 13'07	
retrograde	3486 Mar 12 15:53	7° Y 08'27			3487 Feb 05 15:55	0° ∀	
evening set	3486 Mar 15 12:29	6° Y 26'45		asc. node	3487 Feb 16 20:54	16°) 13′45	
inferior conj	3486 Mar 21 16:58	1° Y 13'03		evening max el	3487 Feb 17 17:29	17° ₩ 08'21	18°30'20
minimum elong	3486 Mar 21 17:56	1° Y 10′27	3°35'05	retrograde	3487 Feb 24 06:20	20°) 43′26	
	3486 Mar 22 20:12	30° ₹		evening set	3487 Feb 27 08:41	19°) (49′55	

	240534 05 04 10	1.40\/.15141	2027116		2400 5 1 15 00 22	200	202.40.5
inferior conj	3487 Mar 05 04:10	14° ∺ 17'41		inferior conj	3488 Feb 17 00:22	27° ≈ 39'39	
minimum elong	3487 Mar 05 03:29	14° 米 19'41	3°37'14	minimum elong	3488 Feb 16 22:33	27° ≈ 45′29	3°23'52
min. Earth dist.	3487 Mar 07 06:54	11°) (48′12	0.64585 AU	min. Earth dist.	3488 Feb 18 11:48	25° ≈ 46'45	0.66035 AU
morning rise	3487 Mar 10 21:42	8°)(07'44		morning rise	3488 Feb 22 09:55	21° ≈ 26′34	
direct	3487 Mar 17 16:30	5° 升 18′08		direct	3488 Feb 28 19:44	18° ≈ 37′20	
desc. node	3487 Mar 26 05:10	8°) 46'34		desc. node	3488 Mar 12 02:12	25°≈40'34	
morning max el	3487 Mar 31 05:12	13°) 10′51	27°20'49	morning max el	3488 Mar 12 15:10	26°≈12'54	26°22'55
	3487 Apr 13 18:06	0°Υ	-, -, .,		3488 Mar 16 03:13	0° ∀	
	3487 May 01 22:25	0°8			3488 Apr 06 07:44	0°Υ	
	•	_			•		
morning set	3487 May 05 13:15	6° 8 54'33	1 22542 477	morning set	3488 Apr 17 17:08	20° Υ 00'01	1 2 1022 1 7 7
max. Earth dist.	3487 May 10 07:07	16° 8 26'24	1.33549 AU	max. Earth dist.	3488 Apr 21 18:55	27° Y 49′20	1.34923 AU
					3488 Apr 22 21:23	9° 8	
superior conj	3487 May 13 16:26	23° 8 31'31	-0°22'24				
minimum elong	3487 May 13 17:35	23° 8 37'35	0°22'09	superior conj	3488 Apr 26 14:20	7° 8 29'09	-0°51'14
asc. node	3487 May 15 20:12	28° 8 07'00		minimum elong	3488 Apr 26 17:02	7° 8 43'01	0°50'43
	3487 May 16 17:21	$\Pi^{\circ}0$		asc. node	3488 May 01 17:15	18° 8 07'08	
evening rise	3487 May 20 22:12	8° Ⅱ 56'39		evening rise	3488 May 04 06:45	23° 8 26'47	
v. v	3487 May 31 23:57	0°ಅ		V	3488 May 07 12:13	0°II	
evening max el	3487 Jun 11 01:20	13° © 09'41	22°10'40	evening max el	3488 May 23 01:58	24° I 101'00	20°44'12
•			22 10 40	•	,		20 44 12
desc. node	3487 Jun 22 04:25	19°525'00		retrograde	3488 Jun 03 10:48	29° ∏ 34'03	
retrograde	3487 Jun 23 21:42	19° © 31'49		evening set	3488 Jun 05 12:43	29° ∏ 23'38	
evening set	3487 Jun 26 18:33	19° © 13'33		desc. node	3488 Jun 08 01:26	28° Ⅱ 44'56	
min. Earth dist.	3487 Jul 05 07:02	15° © 33'47	0.55052 AU	inferior conj	3488 Jun 14 19:39	25° Ⅱ 26′13	-1°58'33
inferior conj	3487 Jul 06 02:05	15° © 06'59	-3°45'51	minimum elong	3488 Jun 14 14:06	25° Ⅱ 34'09	1°56'35
minimum elong	3487 Jul 05 17:42	15° © 18'46	3°43'38	min. Earth dist.	3488 Jun 15 19:08	24° Ⅱ 52'38	0.54904 AU
morning rise	3487 Jul 14 18:42	11° © 16'01		morning rise	3488 Jun 23 14:58	21° Ⅱ 20'38	
direct	3487 Jul 17 21:03	10° © 54'35		direct	3488 Jun 27 06:26	20° ∏ 52′00	
morning max el	3487 Jul 29 15:11	16°523'34	21°24'54	morning max el	3488 Jul 10 10:30	27° I 12'11	23°03'44
morning max ci	3487 Aug 09 02:01	0°Ω	21 24 34	morning max cr	3488 Jul 13 04:13	0°95	23 03 44
1	•			1			
asc. node	3487 Aug 11 19:26	4° Ω 43'46		asc. node	3488 Jul 28 16:29	24°9502'02	
morning set	3487 Aug 18 21:05	18° Ω 36'48			3488 Jul 31 15:48	0 \circ Ω	
	3487 Aug 24 07:18	0° m ∕		morning set	3488 Aug 02 08:08	3° Ω 29'58	
superior conj	3487 Aug 26 04:47	3° ™ 57'34	1°43'22	superior conj	3488 Aug 09 09:47	18° Ω 38′07	1°36'08
minimum elong	3487 Aug 26 03:57	3° m 53'19	1°43'20	minimum elong	3488 Aug 09 07:59	18° Ω 28'26	1°35'59
max. Earth dist.	3487 Aug 30 07:42	12° m 22'48	1.35154 AU	max. Earth dist.	3488 Aug 12 03:40	24° Ω 27'14	1.33769 AU
evening rise	3487 Sep 03 14:31	20° m 44'42			3488 Aug 14 20:02	0° m)	
8 11	3487 Sep 08 15:18	0∘ <u>⊽</u>		evening rise	3488 Aug 17 02:29	4° m/33'35	
desc. node	3487 Sep 18 03:45	0 — 15° Ω 50'32		evening rise	3488 Aug 31 08:34	0° ⊡	
desc. Hode	•			11.	Č		
	3487 Sep 27 23:39	0°M	26040122	desc. node	3488 Sep 04 00:47	5° Ω 40'11	27017112
evening max el	3487 Oct 08 22:54	12°M42'44	26°40'33	evening max el	3488 Sep 20 11:04	26° Ω 09'15	27°17'12
retrograde	3487 Oct 21 22:41	19°M57'42			3488 Sep 25 01:01	0°M₊	
evening set	3487 Oct 28 12:36	17°M17'39		retrograde	3488 Oct 03 22:01	3° ™ 27'46	
min. Earth dist.	3487 Nov 01 13:47	13°M09'42	0.65997 AU	evening set	3488 Oct 10 21:58	0° ™ 46′02	
inferior conj	3487 Nov 03 08:08	11°M04'06	-1°30'18		3488 Oct 11 20:28	30° Ŗ Ω	
minimum elong	3487 Nov 03 10:37	10°M56'44	1°29'16	min. Earth dist.	3488 Oct 14 17:01	27° ♀ 13'08	0.64655 AU
asc. node	3487 Nov 07 18:37	6°M26'12		inferior conj	3488 Oct 16 23:33	24° ≏ 45'04	-2°31'00
morning rise	3487 Nov 09 09:21	5°M21'21		minimum elong	3488 Oct 17 03:44	24° £ 33'40	2°29'25
direct	3487 Nov 12 06:49	4°M34'38		morning rise	3488 Oct 23 10:37	19° ≏ 16'17	
morning max el	3487 Nov 18 21:13	8°M10'23	18°25'51	asc. node	3488 Oct 24 15:40	18° ≏ 51'12	
morning max cr		0° x 7	10 23 31	direct	3488 Oct 26 01:07	18° ⊆ 41'00	
	3487 Dec 04 03:29						15050100
morning set	3487 Dec 08 15:32	7°×13'53		morning max el	3488 Nov 01 13:00	22° Ω 07'59	1/°59′20
desc. node	3487 Dec 15 03:00	17° ∡ 35′20			3488 Nov 07 16:06	0°M₊	
	3487 Dec 22 23:31	0°ಕ		morning set	3488 Nov 19 01:11	18° ™ 35′29	
					3488 Nov 25 21:37	0° ∡ 7	
superior conj	3487 Dec 24 06:17	2° る 00'49	-0°59'30	desc. node	3488 Dec 01 00:03	8° ₰ 18'54	
minimum elong	3487 Dec 23 22:56	1° る 31'56	0°58'34				
max. Earth dist.	3487 Dec 25 07:44	3° ⋜ 40'41	1.45235 AU	superior conj	3488 Dec 02 16:59	11° ₹ '03'32	-0°11'40
evening rise	3488 Jan 09 07:53	27° る 14'37	-	minimum elong	3488 Dec 02 15:34	10° ₹ 57'51	0°11'28
	3488 Jan 11 01:49	0°≈		behind sun begin	3488 Dec 02 08:07	10 × 37 51 10° × 27'55	
grantact brillianas		0 ≈ 13°≈02'30	-0.8m	behind sun end		10 x 27 33	
greatest brilliancy	3488 Jan 19 09:03		-0.0111		3488 Dec 02 23:02		1 44041 ***
	3488 Jan 31 12:51	0° ∀	1000000	max. Earth dist.	3488 Dec 07 02:27	18° ₹ '03'08	1.44841 AU
evening max el	3488 Feb 01 02:53	0° ∺ 36'58	19°08'07		3488 Dec 14 17:44	0° ろ	
asc. node		201/55120		ovening rice	3488 Dec 18 23:33	6° る 33'32	
	3488 Feb 03 17:55	2° ₩ 55'39		evening rise			
retrograde	3488 Feb 03 17:55 3488 Feb 08 01:54	4°) 34′23		greatest brilliancy	3489 Jan 02 07:20	28° ප 17'45	-0.6m
retrograde evening set				-			-0.6m
•	3488 Feb 08 01:54	4°) 34′23		-	3489 Jan 02 07:20	28° ප 17'45	-0.6m 20°01'48

Second S	asc. node	3489 Jan 20 14:57	18° ≈ 26′23			3489 Dec 30 19:23	0° ≈	
Second 149 mm 12 of 12 12 mm					ratragrada			
inferior correct 389 Max 3 0.21 19-2106 27-918 19-220	•				•			
minimariand	•			2050110				
nin mening into 489 Feb 60 700 00 69073 8 69070 20 minimum colong 380 Feb 60 700 20 259070 1 259070 2	•				evening set			
Manuface May Pak 10 07.37 Septem Personal Process May Pak 10 42 Personal Septem May Pak 12 2556 Personal May Pak	C							2025112
offered 1489 Peb 1 2 0.2514 128-2239 comming mase 3490 Jun 2 0.15 2.75 582734 0 6270 AU cesc. nace 1489 Peb 2 0.2514 139-4003 0.794 Cest circet 3490 Jun 2 0.15 3.00 367 22.18 373-31 nenning set 1489 Mar 1 10 0.00 0.797 0.00 circet 3490 Peb 1 0.00 27-27-12 27-37-31 nex Earl dist 1489 Mar 1 10 0.00 0.707 0.00 1.873 NAU morning set 3490 Peb 1 10 70.00 1.874 1.00 specio corj 3480 Apr 1 10 0.00 0.707 5.00 1.873 1.00 morning set 3490 Mar 1 6 1.05 1.874 1.00 reveiling rice 3489 Apr 1 8 1.05 0.00 0.00 0.00 0.00 0.00 reveiling rice 3489 Apr 1 8 1.00 0.00 7.937 1.00 3490 Mar 1 0.00 0.00 1.873 1.41 reveiling rice 3489 Apr 1 8 1.00 0.00 7.937 1.00 3.99 Mar 1 0.00 0.00 1.937 1.41 reveiling rice 3489 Apr 1 8 1.00 0.00 7.937 1.00 3.99 Mar 1 0.00 0.00 1.937 1.41 reveili				0.6/0/3 AU				
Montain part 149 79 22 256 9 9 9 25 24 1 13 24 25 25 25 25 25 25 25	•				_			
May Number 1989 1981 1982 1				2500 456				0.67705 AU
1499 May 12 1222 20				25°04'56	•			
Many March	desc. node							
max. Eurth dist 3489 Mar 31 04406 2°9°12'05 max. Eurth dist 3489 Mar 03 1920 8°9°30'30 136738 AU moming set 3490 Mar 12 1608 13°14'14'31 13°14'14'31 13°14'14'31 13°14'14'31 13°14'14'31 13°14'14'31 13°14'14'31 13°14'14'31 13°14'14'31 13°14'39 Mar 23 00'300 10°0°4'30'30'30'30'30'30'30'30'30'30'30'30'30'					morning max el			23°37'13
March Marc								
minimum elong 3489 Apr 10 0.242 0.27° 22° 1912 minimum elong 3489 Apr 10 15.56 0.28° 18152 minimum elong 3489 Apr 14 15.56 0.28° 18152 minimum elong 3489 Apr 18 15.56 0.28° minimum elong 3489 Apr 18 15.56 0.28° minimum elong 3489 Apr 18 14.17 7285216 minimum elong 3489 Apr 18 14.17 minimum elong 3489 Apr 18 14.18 minimum elong	•				desc. node			
Sequence of the sequence of	max. Earth dist.	3489 Apr 03 19:30	8° Υ ′50'30	1.36738 AU				
Manuman ellong 3489 Apr 10 06.46 21°P1428 P18'35 S S S S S S S S S					•	3490 Mar 12 16:08		
Sevening rise 3489 Apr 18 15.56 0°B 5°B		•			max. Earth dist.	3490 Mar 16 14:48		1.38853 AU
Section Sec	minimum elong	-		1°18'35		3490 Mar 22 03:00	0° Υ	
Second 3489 Apr 18 1417 7" 55626 minimum ellong 3490 Mar 24 06.27 3" ("Sy941 14" 17" 17" 17" 18" 18" 14" 18" 18" 14" 18" 18" 14" 18" 18" 18" 18" 18" 18" 18" 18" 18" 18		3489 Apr 14 15:56						
evening max el 3489 May 30 3230 0°T sevening max el 3490 Apr 02 06:37 21°°C'9074 retrograde 3489 May 15 05:18 10°T1152 sevening set 3489 May 17 05:17 10°T0049 sevening set 3490 May 17 05:17 10°T0049 sevening set 3490 Apr 18 11:12 17°E4152 18°4531 sinferior conj 3489 May 52:15:15 5°T5551 0°0027 retrograde 3490 Apr 18 11:12 17°E4152 18°4531 minimum elong 3489 May 52:15:15 5°T5550 0°0027 retrograde 3490 May 06 18:57 12°E423413 transit middle 3489 May 52:15:15 5°T5550 0°0027 retrograde 3490 May 06 18:57 12°E423413 transit middle 3489 May 52:15:15 5°T5550 0°0027 retrograde 3490 May 06 18:57 12°E42345 18°E42345 18°	evening rise	3489 Apr 18 10:27	7° 8 37'10		superior conj	3490 Mar 24 01:50		
Cevening max el 3489 May 15 1447 5°E3147 19°34'56 3480 May 16 3489 May 17 55.78 10°E11152 10°E1152	asc. node	3489 Apr 18 14:17	7° 8 56'26		minimum elong	3490 Mar 24 06:27	3° Ƴ 59'41	1°43'17
Periorgiagle 4489 May 15 05.38 10PT 11752 10PT 10049 13490 May 18 14-22 1PT 24152 18*4531 16finitive conj 3489 May 25 21.51 5°T.5650 0°0027 retrograde 3490 Apr 26 127.15 21°E.0225 14010 1		3489 Apr 30 23:20	Π $^{\circ}0$		evening rise	3490 Apr 02 06:37	21° Y 20'47	
evening set 3489 May 17 05:17 10°H00'49 evening max el 3490 Apr 18 14:22 17°B41'52 18'45'31 inferior conj 3489 May 25 21:51 5°H56'50 0'00'27 evening set 3490 Apr 28 22:10 21°B2'345 14'01'0 14'15'31 18'15'31	evening max el	3489 May 05 14:47	5° Ⅱ 31'47	19°34'56	asc. node	3490 Apr 05 11:21	27° Ƴ 30′18	
inferior conj 3489 May 25 21:50 \$*\frac{1}{15}\$650 0°0027 retrograde 3490 Apr 26 17:15 21°\beta 2013 \$*\frac{1}{15}\$670 0°0027 retrograde 3490 Apr 28 22:10 21°\beta 2013 \$*\frac{1}{15}\$670 0°0027 inforior conj 3490 May 80 612:18 16°\beta 2013 19010 transit begin 3489 May 25 17:57 6°\frac{1}{15}\$000 \$\beta 15000000000000000000000000000000000000	retrograde	3489 May 15 05:38	10° Ⅱ 11'52			3490 Apr 06 19:09	0°8	
minimum elong 3489 May 25 21:51 5° H5650 0°0027 evening set 490 Apr 28 22:10 21° S2345 1400 Telephone transit middle 3489 May 25 21:51 5° H50300 0°0027 minimum elong 3490 May 06 18:57 16° G5613 1°900 Telephone desc. node 3489 May 10 01:47 14° G5641 1°900 Telephone 14° G5641 1°900 Telephone desc. node 3489 May 28 09:05 4° H2318 0.55723 AU morning rise 3490 May 14 19:15 11° S5119 minimum firse 3489 May 28 09:05 4° H2318 0.55723 AU morning rise 3490 May 14 19:15 11° S5119 direct 3489 Jun 20 07:30 10° M5419 morning max el 3489 Jun 20 07:30 20° T6 asc. node 3489 Jul 20 09:32 10° T13722 24°4617 3490 Jun 13 13:40 0° T asc. node 3489 Jul 21 19:01 33° 24°10 1° 23° 31 morning max el 3490 Jul 00:10 20° 53 3° 25° 31 1° 0° 10° 20° 20° 20° 20° 20° 20° 20° 20° 20° 2	evening set	3489 May 17 05:17	10° Ⅱ 00'49		evening max el	3490 Apr 18 14:22	17° 8 41'52	18°45'31
Sample S	inferior conj	3489 May 25 21:50	5° Ⅱ 56'51	0°00'27	retrograde	3490 Apr 26 17:15	21° 8 40'13	
May 0	minimum elong	3489 May 25 21:51	5° Ⅱ 56'50	0°00'27	evening set	3490 Apr 28 22:10	21° 8 23'45	
May 16 May 16 May 16 May 16 May 16 May 16 May 17 May 18 May 17 May 18 M	transit middle	3489 May 25 21:51	5° Ⅱ 56'50	0°00'27	inferior conj	3490 May 06 18:57	17° 8 02'25	1°40'10
desc. node 3489 May 25 22.28 5°II.55′52 desc. node 3490 May 12 19.29 12°B5213 Final field mini. Earth dist. 3489 May 28 00.05 4°II.23′18 0.55723 AU morning rise 3490 May 14 19.15 1°B51′19 1°	transit begin	3489 May 25 17:57	6° Ⅱ 03'02		minimum elong	3490 May 06 22:18	16° 8 56'13	1°39'07
min. Earth dist. 3489 May 28 09.05 4° 112318 0.55723 AU morning rise 3490 May 14 19:15 11° 851'19 morning rise 3489 Jun 08 00:20 0° 1134'2 morning max el 3489 Jun 08 00:20 0° 1134'2 morning max el 3489 Jun 08 00:20 0° 1134'2 morning max el 3489 Jun 08 00:20 0° 1134'2 morning max el 3489 Jun 15 13:30 31° 241'10 morning set 3490 Jun 13 13:40 0° 11 morning set 3489 Jul 15 13:33 31° 241'10 morning set 3490 Jul 02 0:6:55 32° 35' 10° 24 morning set 3490 Jul 02 0:6:55 32° 35' 10° 24 morning set 3489 Jul 17 19:57 18° 25' 231 morning set 3490 Jul 02 0:6:55 32° 35' 10° 24 morning set 3489 Jul 24 19:15 33° 24' 29' 10° 23' 13 minimum clong 3490 Jul 09 0:6:23 18° 25' 31 1° 06' 19 superior conj 3490 Jul 09 0:6:23 18° 25' 31 1° 06' 19 superior conj 3490 Jul 09 0:6:23 18° 25' 31 1° 06' 19 superior conj 3490 Jul 09 0:6:23 18° 25' 31 1° 06' 19 superior conj 3490 Jul 16 0:50 33° 25' 25' 25' 25' 25' 25' 25' 25' 25' 25'	transit end	3489 May 26 01:46	5° Ⅱ 50'37		min. Earth dist.	3490 May 10 01:47	14° 8 38'04	0.57328 AU
moming rise 3489 Jun 03 11:48 1°IZ0735 direct 3490 Jun 03 16:10 18°B0737 20°1706 morning max el 3489 Jun 02 00:42 0°IZ0442 morning max el 3490 Jun 13 16:34 0°IZ047 20°1706 asc, node 3489 Jul 15 13:33 13°E2110 morning set 3490 Jul 17 19:57 318°E22411 asc, node 3490 Jul 17 19:57 318°E24110 asc, node 3490 Jul 17 19:57 318°E24110 asc, node 3490 Jul 02 0:655 3°35'350 - superior conj 3489 Jul 24 19:01 3°3C29'40 1°23'31 minimum elong 3490 Jul 09 0:623 18°5Z25'31 1°06'19 max. Earth dist 3489 Jul 24 16:43 3°3C1709 1°23'13 minimum elong 3490 Jul 09 0:40:6 18°5Z25'31 1°06'19 evening rise 3489 Aug 01 0:02:1 18°SL35'59 evening rise 3490 Jul 16 0:50:0 18°5Z15'25 1°05'55 desc. node 3489 Aug 22 12:148 24°BySt5'59 desc. node 3490 Jul 16 0:50:0 2°ByT4'0 1°05'54 evening max el 3489 Aug 25 16:13 0°A 2°E1'112	desc. node	3489 May 25 22:28	5° Ⅱ 55'52		desc. node	3490 May 12 19:29	12° 8 52'13	
direct 3489 Jun 08 00.20 0° II 3442 morning max el 3490 Jun 03 16:10 18° 80'737 26°17'06 morning max el 3489 Jun 22 00.42 7° II 37'22 24°46'17 morning max el 3490 Jun 13 17:29 0° 50 3490 Jun 30 17:29 3° 515'24 morning set 3489 Jun 17 19:57 18° 52°24'31 morning set 3490 Jun 02 06:55 3° 53'15'24 37.00 Jun 19 3° 40'17'0 12°23'13 minimum elong 3489 Jun 24 19:01 3° 3° 40'17'0 12°23'13 minimum elong 3489 Jun 24 19:01 3° 3° 40'17'0 12°23'13 max Earth dist. 3490 Jun 09 06:23 18° 52'53'1 1° 06'19 3489 Jun 24 16:43 3° 41'17'0 12° 23'13 max Earth dist. 3490 Jun 09 18:06 19° 53'30'0 1.32233 AU 3489 Jun 24 16:43 3° 41'17'0 12° 23'13 max Earth dist. 3490 Jun 19 18:06 19° 53'30'0 1.32233 AU 3489 Jun 24 16:43 3° 41'17'0 12° 23'13 max Earth dist. 3490 Jun 19 18:06 19° 53'30'0 1.32233 AU 3489 Jun 26 08:04 6° 40.51'02 1.32798 AU 40 40 40 40 40 40 40 4	min. Earth dist.	3489 May 28 09:05	4° Ⅲ 23'18	0.55723 AU	morning rise	3490 May 14 19:15	11° 8 51'19	
direct 3489 Jun 08 00.20 0° II 3442 morning max el 3490 Jun 03 16:10 18° 80'737 26°17'06 morning max el 3489 Jun 22 00.42 7° II 37722 24°46'17 3490 Jun 13 17:29 0° 5 3490 Jun 30 17:29 3490 Jun 30 17:29 3490 Jun 30 17:29 3490 Jun 30 17:29 3490 Jun 30 16:10 18° 52'531 1° 106'19 3489 Jun 23 04:37 0° 5 39° 52'51 1° 106'19 3489 Jun 24 19:11 3° 50° 24'10 19:23'13 minimum elong 3489 Jun 24 19:11 3° 50° 50' 132'23'3 Jun 3490 Jun 09 18:06 19° 36'300 13:2233 Jun 3489 Jun 24 19:11 3° 50' 10° 21' 132'313 max. Earth dist. 3490 Jun 09 18:06 19° 36'300 13:2233 Jun 3489 Jun 24 19:11 3° 50' 50' 5 3° 50' 50' 50' 50' 50' 50' 50' 50' 50' 50'	morning rise	3489 Jun 03 11:48	1° Ⅱ 20'35		direct	3490 May 20 07:50	10° 8 36'43	
Morning max el 3489 Jun 22 00:42 7° II 37'22 24°46'17 3490 Jun 31 13:40 0° II 348' Jun 24 14 15 13:31 3° 24' 11 10 13 3490 Jun 31 13:40 3° 36' 15' 24 14 15 13:31 3° 24' 11 10 13 3490 Jun 31 13:40 3° 36' 15' 24 14 15 13:31 3° 24' 11 10 13 3° 24' 11 10 13 3° 24' 11 10 13 3° 24' 11 10 13 3° 24' 11 10 13 3° 24' 11 10 13 3° 24' 11 10 13 3° 24' 11 10 13 3° 24' 11 10 13 3° 24' 11 10 13 3° 24' 11 10 10 10 10 10 10 10	•	3489 Jun 08 00:20	0° Ⅲ 34'42		morning max el	3490 Jun 03 16:10	18° 8 07'37	26°17'06
asc. node	morning max el	3489 Jun 22 00:42	7° Ⅱ 37'22	24°46'17	C	3490 Jun 13 13:40	$\Pi^{\circ}0$	
morning set 3489 Jul 17 19:57 18°\$24'31 asc. node 3490 Jul 02 10:37 3°\$23'50'0 3480 Jul 23 04:37 0°\$	C	3489 Jul 08 09:32	0°ಅ			3490 Jun 30 17:29	0°ಅ	
morning set 3489 Jul 17 19:57 18°\$24'31 asc. node 3490 Jul 02 10:37 3°\$23'50'0 3480 Jul 23 04:37 0°\$	asc. node	3489 Jul 15 13:33			morning set		3° © 15'24	
Superior conj 3489 Jul 23 04:37 0°Ω Superior conj 3490 Jul 09 06:23 18°©25'31 1°06'19					Č			
superior conj 3489 Jul 24 19:01 3°Q29'40 1°23'31 minimum elong 3490 Jul 09 06:23 18°©25'31 1°06'19 minimum elong 3489 Jul 24 16:43 3°Q1'709 1°23'13 max. Earth dist. 3490 Jul 09 04:06 18°©25'31 1°06'15'55 max. Earth dist. 3489 Jul 26 08:04 6°Q5'102 1.32798 AU max. Earth dist. 3490 Jul 16 05:03 3°Q2'619 evening rise 3489 Aug 01 00:21 18°Q5'0'35 evening rise 3490 Jul 16 05:03 3°Q2'619								
Superior conj 3489 Jul 24 19.01 3° Ω29'40 1°23'31 minimum elong minimum elong max. Earth dist. 3490 Jul 09 18.06 19°53'000 1.32233 AU max. Earth dist. 3489 Jul 24 16.43 3° Ω17'09 1°23'13 max. Earth dist. 3490 Jul 10 18.06 19°53'000 1.32233 AU max. Earth dist. 3489 Jul 24 16.43 3° Ω17'09 1.32798 AU 3490 Jul 14 13.59 0° Ω 0° Ω 0° № 0.3293 AU max. Earth dist. 3489 Jul 16 05:03 3° Ω12'00 0° № 0.3489 Aug 01 10.21 18° Ω5'035 0° Ω 0° № 0.3490 Jul 16 05:03 3° Ω12'00 0° № 0.00 № 0.0			• 00		superior coni	3490 Jul 09 06:23	18°925'31	1°06'19
minimum elong 3489 Jul 24 16:43 3° 1709 1°23'13 max. Earth dist. 3499 Jul 09 18:06 19° 230'00 1.32233 AU max. Earth dist. 3489 Jul 26 08:04 6° 251'02 1.32798 AU evening rise 3489 Aug 01 00:21 18° 250'35 evening rise 3489 Aug 01 00:21 18° 250'35 evening rise 3489 Aug 01 00:21 18° 250'35 evening rise 3489 Aug 01 06:52 0° 10 3490 Jul 10 05:03 3° 2026'19 3490 Jul 10 05:05 3490 Jul	superior coni	3489 Jul 24 19:01	3° Ω 29'40	1°23'31				
max. Earth dist. 3489 Jul 26 08:04 6° Ω51'02 1.32798 AU evening rise 3490 Jul 14 13:59 0° Ω	1 3				-			
evening rise 3489 Aug 01 00:21 18° \$\Omega\$50:35 evening rise 3490 Jul 16 05:03 3° \$\Omega\$26!19 3489 Aug 06 16:52 0° \$\Omega\$ desc. node 3489 Aug 21 21:48 24° \$\Omega\$55:9 desc. node 3489 Aug 22 16:43 0° \$\Omega\$ evening max el 3490 Aug 08 18:49 13° \$\Omega\$24'01 27° 01'38 21° 01'38 21° 01'38 22° 01'10 22° 01'38 22° 01'10 22° 01'38 22° 01'10 22° 01'38 22° 01'38 22° 01'10 22° 01'10 22° 01'38 22° 01'10 22° 01'38 22° 01'10 22° 01'3	•				man. Bartir dist.			1.52255 110
3489 Aug 06 16:52 0° m 3490 Jul 30 12:00 0° m 3490 Jul 30 12:00 0° m 3490 Aug 36 18:49 13° m 24'01 27°01'38 3490 Aug 36 18:49 13° m 24'01 27°01'38 3490 Aug 36 18:49 13° m 24'01 27°01'38 3490 Aug 36 3490 Aug 36 00:14 28° m 47'03 27°01'38 3490 Aug 37 00:14 28° m 47'03 27°01'38 3490 Aug 38 00:14 28° m 47'03 3490 Aug 38 00:14 3490 Aug 38 00:14 3490 Aug 38 00:14 28° m 47'03 3490 Aug 38 00:14 3490 Aug				1.52770110	evening rise			
desc. node 3489 Aug 21 21:48 24° \$\bar{\text{m}}\$55'559 desc. node 3490 Aug 08 18:49 13° \$\bar{\text{m}}\$24'01 27°01'38 evening max el 3489 Aug 25 16:31 0° \$\text{\text{m}}\$ cevning max el 3489 Sep 02 21:21 9° \$\text{\text{\text{m}}\$11!2}\$ 27°25'44 retrograde 3490 Aug 30 00:14 28° \$\bar{\text{m}}\$47'03 retrograde 3489 Sep 16 14:52 16° \$\text{\text{\text{\text{m}}}\$27'12 evening set 3490 Sep 06 01:07 26° \$\bar{\text{m}}\$35'04 evening set 3489 Sep 30 19:31 13° \$\text{\text{\text{m}}\$24'27 min. Earth dist. 3490 Sep 09 17:17 23° \$\bar{\text{m}}\$54'57 0.61034 AU min. Earth dist. 3489 Sep 30 05:01 8° \$\text{\text{\text{m}}}\$10° \$\text{\text{\text{m}}}\$27'0 0.62978 AU inferior conj 3489 Sep 30 05:01 8° \$\text{\text{\text{\text{m}}}\$13° 32'956 minimum elong 3490 Sep 12 21:15 21° \$\bar{\text{\text{m}}}\$12'10 4°21'57 inferior conj 3489 Sep 30 10:31 7° \$\text{\text{\text{\text{m}}}\$57'07 3°28'14 morning rise 3490 Sep 20 06:27 16° \$\bar{\text{\text{m}}}\$18'\bar{\text{\text{m}}}\$18'\bar{\text{m}}\$22'\bar{\text{m}}\$18'\bar{\text{m}}	e vennig rise	-			evening rise			
evening max el 3489 Aug 25 16:31 0°鱼 evening max el 3490 Aug 16 03:02 21°顶35′01 27°01′38 evening max el 3489 Sep 02 21:21 9°鱼11′12 27°25′44 retrograde 3490 Aug 30 00:14 28°顶47′03 retrograde 3489 Sep 16 14:52 16°鱼27′12 evening set 3490 Sep 06 01:07 26°顶35′40 evening set 3489 Sep 27 10:33 10°鱼52′27 0.62978 AU inferior conj 3490 Sep 09 17:17 23°顶54′57 0.61034 AU min. Earth dist. 3489 Sep 30 05:01 8°鱼10′35 -3°29′56 minimum elong 3490 Sep 13 02:53 21°顶10′10 4°21′57 inferior conj 3489 Sep 30 05:01 8°鱼10′35 -3°29′56 minimum elong 3490 Sep 13 02:53 21°顶00′2 4°20′44 morning rise 3490 Sep 20 06:27 16°顶21′30 direct 3490 Sep 20 06:27 16°顶21′30 sac. node 3489 Oct 07 02:59 2°鱼51′37 asc. node 3490 Sep 20 19:19 19°顶32′33 18°00′23 morning max el 3489 Oct 11 12:44 2°鱼50′20 morning max el 3490 Sep 29 19:19 19° mp32′33 18°00′23 morning set 3489 Nov 11 00:56 1° ml.06′48 morning set 3490 Oct 24 02:29 0° ml. superior conj 3489 Nov 11 00:56 1° ml.06′48 morning set 3490 Oct 25 16:33 2° ml.48′40 1°06′22 minimum elong 3489 Nov 17 21:06 29° ml.05′54 desc. node 3490 Nov 12 10:56 1° ml.06′48 max. Earth dist. 3489 Nov 18 10:25 0° x² 1137 1.43761 AU evening rise 3490 Nov 11 02:20 0° x² 14211 02:20 0° x² 14211 02:20 0° x² 14211 03:40 Nov 11 02:20 0° x² 14211 03:40 Nov 12 10:20 0° x²	desc. node	C	-		desc. node			
evening max el 3489 Sep 02 21:21 9°\$\text{\$\text{\$\sigma\$}\text{\$\text{\$1'\$}\text{\$\text{\$2'\$}\text{\$2'\$}\text{\$4'\$}}\$ retrograde 3489 Nov 13 03:25 16°\$\text{\$\text{\$\sigma\$}\text{\$\text{\$2'\$}\text{\$1'\$}\text{\$\text{\$2'\$}\text{\$4'\$}}\$ retrograde evening set 3490 Nov 08 04:06 25°\$\text{\$\text{\$\text{\$\text{\$\text{\$2'\$}\$\text{\$\text	dese. Hode	•	-			-	-	27°01'38
retrograde evening set 3489 Sep 16 14:52 16°\(\omega{27}\) 12 evening set 3489 Sep 06 01:07 26°\(\omega{35}\) 3489 Sep 23 19:31 13°\(\omega{54}\) 27 min. Earth dist. 3489 Sep 09 17:17 23°\(\omega{54}\) 557 0.61034 AU min. Earth dist. 3489 Sep 27 10:33 10°\(\omega{52}\) 27 0.62978 AU inferior conj 3490 Sep 12 21:15 21°\(\omega{17}\) 10:0002 4°20'44 minimum elong 3489 Sep 30 05:01 8°\(\omega{51}\) 10:35 3°29'56 minimum elong 3490 Sep 13 02:53 21°\(\omega{17}\) 10:00'02 4°20'44 minimum elong 3489 Sep 30 10:31 7°\(\omega{55}\) 50° 2°\(\omega{59}\) 96 direct 3489 Oct 07 02:59 2°\(\omega{59}\) 96 direct 3490 Sep 22 15:26 15°\(\omega{59}\) 58'51 direct 3489 Oct 09 13:15 2°\(\omega{50}\) 20 morning max el 3490 Sep 29 19:19 19°\(\omega{53}\) 318°00'23 morning max el 3489 Oct 11 12:44 2°\(\omega{50}\) 50°\(\omega{57}\) 53 17°50'30 morning set 3489 Oct 10 10:56 1°\(\omega{10}\) 10:56 1°\(\omega{10}\) 10:648 morning set 3490 Oct 25 16:33 2°\(\omega{14}\) 40°\(\omega{12}\) 14°\(\omega{28}\) 27 morning set 3489 Nov 13 03:25 21°\(\omega{10}\) 10:648 morning set 3490 Oct 25 16:33 2°\(\omega{14}\) 40°\(\omega{12}\) 20°\(\omega{11}\) 10:650 1°\(\omega{10}\) 10:56 1°\(\omega{10}\) 10:56 29°\(\omega{11}\) 10:59 0°32'25 superior conj 3490 Oct 25 16:33 2°\(\omega{14}\) 40°\(\omega{12}\) 10:550 desc. node 3489 Nov 13 06:30 21°\(\omega{10}\) 20°\(\omega{11}\) 10:49'53 0°31'58 minimum elong 3490 Nov 02 07:10 15°\(\omega{10}\) 10:550 41.42127 AU 3489 Nov 18 10:25 0°\(\omega{11}\) 10:47 0°\(\omega{12}\) 489 Nov 18 10:25 0°\(\omega{11}\) 13:47 1.43761 AU evening rise 3490 Nov 04 18:07 19°\(\omega{12}\) 10°\(\omega{12}\) 12:40 0°\(\omega{12}\) 12:41 10°\(\omega{12}\) 13:41 12:41 12:41 14°\(\omega{12}\) 13:41 12:41 14°\(\omega{12}\) 13:41 12:41 14°\(\omega{12}\) 13:41	evening may el	C		27°25'44	•	-		27 0130
evening set 3489 Sep 23 19:31 13°\tilde{\Omega}\$54'27 min. Earth dist. 3490 Sep 09 17:17 23°\tilde{\tilde{\Omega}}\$54'57 0.61034 AU min. Earth dist. 3489 Sep 27 10:33 10°\tilde{\Omega}\$52'27 0.62978 AU inferior conj 3490 Sep 12 21:15 21°\tilde{\Omega}\$10'10 -4°21'57 inferior conj 3489 Sep 30 05:01 8°\tilde{\Omega}\$10'35 -3°29'56 minimum elong 3490 Sep 13 02:53 21°\tilde{\Omega}\$10'00'2 4°20'44 morning rise 3489 Sep 30 10:31 7°\tilde{\Omega}\$57'07 3°28'14 morning rise 3490 Sep 20 06:27 16°\tilde{\Omega}\$13'0 Sep 20 19:19 19°\tilde{\Omega}\$13'0 Sep 20 19:19 19°\tilde{\Omega}\$13'0 Sep 20 19:19 19°\tilde{\Omega}\$18'0 Sep 20 10'\tilde{\Omega}\$18'0 Sep 20 10'\tilde{\Omega}\$18'0 Sep 20 10'\tilde{\Omega}\$18'\tilde{\Omega}\$18'0 Sep 20 10'\tilde{\Omega}\$18'0 Sep 20 10'\tilde{\Omega}\$18'0 Sep 20 10'\tilde{\Omega}\$18'\tilde{\Omega}\$18'\tilde{\Omega}\$18'\tilde{\Omega}\$18'\tilde{\Omega}\$18'\tilde{\Omega}\$18'\tilde{\Omega}\$18'\tilde{\Omega}\$18'\tilde{\Omega}\$18'\ti	•	*		27 23 11	•	-	-•	
min. Earth dist. 3489 Sep 27 10:33 10°至52'27 0.62978 AU inferior conj 3490 Sep 12 21:15 21°Tb 12'10 -4°21'57 inferior conj 3489 Sep 30 05:01 8°至10'35 -3°29'56 minimum elong 3490 Sep 13 02:53 21°Tb 00'02 4°20'44 minimum elong 3489 Sep 30 10:31 7°至57'07 3°28'14 morning rise 3490 Sep 20 06:27 16°Tb 12'130 morning rise 3489 Oct 07 02:59 2°至59'06 direct 3490 Sep 22 15:26 15°Tb 58'51 direct 3489 Oct 09 13:15 2°至31'37 asc. node 3490 Sep 28 09:49 18°Tb 18'Tb asc. node 3489 Oct 11 12:44 2°至50'20 morning max el 3490 Sep 29 19:19 19°Tb 32'33 18°00'23 morning max el 3489 Oct 16 05:24 5°至57'53 17°50'30 morning set 3489 Nov 01 10:56 1°Tb 06'48 morning set 3490 Oct 24 02:29 0°TL superior conj 3489 Nov 13 03:25 21°Tb 16'59 0°32'25 superior conj 3490 Oct 24 02:29 0°TL superior conj 3489 Nov 13 06:30 21°Tb 29'53 0°31'58 minimum elong 3490 Nov 02 07:10 15°Tb 50'04 1.42127 AU desc. node 3489 Nov 18 10:25 0°素 desc. node 3490 Nov 04 18:07 19°Tb 52'44 max. Earth dist. 3489 Nov 18 10:25 0°素 1.43761 AU evening rise 3490 Nov 11 02:20 0°素 148'30 Nov 11 02:20 0°素 3489 Nov 11 02:20 0°素 3489 Nov 12 18:39 0°T 11'37 1.43761 AU evening rise 3490 Nov 11 02:20 0°素 3489 Nov 11 02:20 0°素 3489 Nov 12 18:39 0°T 11'37 1.43761 AU evening rise 3490 Nov 11 02:20 0°₹ 3490 Nov 11 02:20 0°₹ 3489 Nov	•	*			Č	•	-	0.61034 AU
inferior conj 3489 Sep 30 05:01 8°£10'35 -3°29'56 minimum elong 3490 Sep 13 02:53 21°№00'02 4°20'44 minimum elong 3489 Sep 30 10:31 7°£57'07 3°28'14 morning rise 3490 Sep 20 06:27 16°№21'30 morning rise 3489 Oct 07 02:59 2°£59'06 direct 3490 Sep 22 15:26 15°№58'51 direct 3489 Oct 09 13:15 2°£31'37 asc. node 3490 Sep 28 09:49 18°№18'15 asc. node 3490 Sep 28 09:49 18°№18'15 asc. node 3489 Oct 11 12:44 2°£50'20 morning max el 3489 Oct 16 05:24 5°£57'53 17°50'30 3490 Oct 07 11:54 0°£ morning set 3489 Oct 31 19:47 0°€ morning set 3489 Nov 01 10:56 1°€€ morning set 3490 Oct 15 14:21 14°£28'27 morning set 3489 Nov 01 10:56 1°€€ morning set 3490 Oct 24 02:29 0°€€ superior conj 3489 Nov 13 06:30 21°€€ superior conj 3489 Nov 13 06:30 21°€€ superior conj 3489 Nov 13 06:30 21°€€ superior conj 3489 Nov 02 20°€€ superior conj 3489 Nov 18 10:25 0°₹ desc. node 3490 Nov 04 18:07 19°€€ superior significant superior significant significant superior superior significant superior superior significant superior superior superior significant superior superior superior superior sup	Č	*		0.62978 ATT			-	
minimum elong 3489 Sep 30 10:31		1			-	*		
morning rise 3489 Oct 07 02:59 2° £59'06 direct 3490 Sep 22 15:26 15° ₹58'51 direct 3489 Oct 09 13:15 2° £31'37 asc. node 3490 Sep 28 09:49 18° ₹15' 15' asc. node 3489 Oct 11 12:44 2° £50'20 morning max el 3489 Oct 16 05:24 5° £57'53 17°50'30 3490 Oct 07 11:54 0° £ morning set 3489 Oct 31 19:47 0° € morning set 3490 Oct 15 14:21 14° £28'27 morning set 3489 Nov 11 10:56 1° ₹10.06'48 superior conj 3489 Nov 13 03:25 21° ₹10.06'48 superior conj 3489 Nov 13 06:30 21° ₹10.29'53 0°31'58 minimum elong 3490 Oct 25 16:33 2° ₹10.06'22 minimum elong 3489 Nov 17 21:06 29° ₹10.05'54 max. Earth dist. 3490 Nov 02 07:10 15° ₹10.06'48 superior conj 3490 Nov 02 07:10 15° ₹10.06'48 superior conj 3489 Nov 18 10:25 0° ₹10.06'54 max. Earth dist. 3489 Nov 18 10:25 0° ₹10.06'54 superior conj 3490 Nov 02 07:10 15° ₹10.06'48 superior conj 3489 Nov 02 07:10 15° ₹10.06'49 superior conj 3490 Nov 04 18:07 19° ₹10.06'49 superior conj 3490 Nov 04 18:07 19° ₹10.06'49 superior conj 3489 Nov 18 10:25 0° ₹10.06'49 superior conj 3490 Nov 08 04:06 25° ₹10.23'06 superior conj 3490 Nov 08 04:06 25° ₹10.23'06 superior conj 3490 Nov 11 02:20 0° ₹10.06'49 superior conj 3	•	-			•	*	-•	4 20 44
direct 3489 Oct 09 13:15 2° £31'37 asc. node 3490 Sep 28 09:49 18° mp18'15 asc. node 3489 Oct 11 12:44 2° £50'20 morning max el 3490 Sep 29 19:19 19° mp32'33 18°00'23 morning max el 3489 Oct 16 05:24 5° £57'53 17°50'30 3490 Oct 07 11:54 0° £ 3489 Oct 31 19:47 0° m morning set 3489 Nov 01 10:56 1° m06'48 morning set 3490 Oct 24 02:29 0° m superior conj 3489 Nov 13 03:25 21° m16'59 0°32'25 superior conj 3490 Oct 25 16:33 2° m48'40 1°06'22 minimum elong 3489 Nov 13 06:30 21° m29'53 0°31'58 minimum elong 3490 Oct 25 20:49 3° m07'27 1°05'50 desc. node 3489 Nov 18 10:25 0° ₹ max. Earth dist. 3490 Nov 02 07:10 15° m50'04 1.42127 AU desc. node 3489 Nov 18 10:25 0° ₹ desc. node 3489 Nov 18 10:25 0° ₹ 3489 Nov 19 18:59 2° ₹11'37 1.43761 AU evening rise 3490 Nov 08 04:06 25° m23'06 evening rise 3489 Nov 28 08:51 15° ₹43'08 3490 Nov 11 02:20 0° ₹ 3490 Nov 11 02:20 0° ₹ 3489 Nov 11 18:39 0° ₹ 3490 Nov 11 02:20 0° ₹ 3490 Nov 11 02:20 0° ₹ 3490 Nov 11 02:20 0° ₹ 3489 Nov 11 18:39 0° ₹ 3490 Nov 11 02:20 0° ₹ 34	•	-		3 20 14	•	*		
asc. node 3489 Oct 11 12:44 2°丘50'20 morning max el 3490 Sep 29 19:19 19°順32'33 18°00'23 morning max el 3489 Oct 16 05:24 5°丘57'53 17°50'30 3489 Oct 31 19:47 0°肌 morning set 3490 Oct 15 14:21 14°丘28'27 morning set 3489 Nov 01 10:56 1°肌06'48 superior conj 3489 Nov 13 03:25 21°肌16'59 0°32'25 superior conj 3490 Oct 25 16:33 2°肌48'40 1°06'22 minimum elong 3489 Nov 13 06:30 21°肌29'53 0°31'58 minimum elong 3490 Oct 25 20:49 3°肌07'27 1°05'50 desc. node 3489 Nov 17 21:06 29°肌05'54 max. Earth dist. 3490 Nov 02 07:10 15°肌50'04 1.42127 AU desc. node 3489 Nov 18 10:25 0°ズ desc. node 3489 Nov 19 18:59 2°ズ11'37 1.43761 AU evening rise 3490 Nov 08 04:06 25°肌23'06 evening rise 3489 Nov 28 08:51 15°ズ43'08 3490 Dec 07 18:39 0°云 3490 Dec 01 16:27 0°云	•						-	
morning max el 3489 Oct 16 05:24 5°£57'53 17°50'30 3489 Oct 31 19:47 0°						-		18000'23
morning set 3489 Oct 31 19:47 0° IL morning set 3490 Oct 15 14:21 14° \(\overline{\Omega}\)28'27 morning set 3489 Nov 01 10:56 1° IL06'48 morning set 3490 Oct 24 02:29 0° IL superior conj 3489 Nov 13 03:25 21° IL16'59 0°32'25 superior conj 3490 Oct 25 16:33 2° IL48'40 1°06'22 minimum elong 3489 Nov 13 06:30 21° IL29'53 0°31'58 minimum elong 3490 Oct 25 20:49 3° IL07'27 1°05'50 desc. node 3489 Nov 17 21:06 29° IL05'54 max. Earth dist. 3490 Nov 02 07:10 15° IL50'04 1.42127 AU desc. node 3489 Nov 18 10:25 0° \(\overline{\omega}\) 1.43761 AU evening rise 3490 Nov 08 04:06 25° IL23'06 evening rise 3489 Nov 28 08:51 15° \(\overline{\				17050/30	morning max ci	-	-•	10 00 23
morning set 3489 Nov 01 10:56 1°肌06'48 3490 Oct 24 02:29 0°肌 superior conj 3489 Nov 13 03:25 21°肌16'59 0°32'25 superior conj 3490 Oct 25 16:33 2°肌48'40 1°06'22 minimum elong 3489 Nov 13 06:30 21°肌29'53 0°31'58 minimum elong 3490 Oct 25 20:49 3°肌07'27 1°05'50 desc. node 3489 Nov 17 21:06 29°肌05'54 max. Earth dist. 3490 Nov 02 07:10 15°肌50'04 1.42127 AU 3489 Nov 18 10:25 0°ス desc. node 3490 Nov 04 18:07 19°肌52'44 max. Earth dist. 3489 Nov 19 18:59 2°ス11'37 1.43761 AU evening rise 3490 Nov 08 04:06 25°肌23'06 evening rise 3489 Nov 28 08:51 15°ス43'08 3490 Nov 11 02:20 0°ス 3490 Nov 11 02:20 0°X 3490 Nov 11 02:20 0	morning max ci			17 30 30	morning set			
superior conj 3489 Nov 13 03:25 21° 116'59 0°32'25 superior conj 3490 Oct 25 16:33 2° 1148'40 1°06'22 minimum elong 3489 Nov 13 06:30 21° 1129'53 0°31'58 minimum elong 3490 Oct 25 20:49 3° 1107'27 1°05'50 desc. node 3489 Nov 17 21:06 29° 1105'54 max. Earth dist. 3490 Nov 02 07:10 15° 1150'04 1.42127 AU desc. node 3490 Nov 04 18:07 19° 11.52'44 max. Earth dist. 3489 Nov 19 18:59 2° 11'37 1.43761 AU evening rise 3490 Nov 08 04:06 25° 11.23'06 evening rise 3489 Nov 28 08:51 15° 15° 15° 15° 15° 15° 15° 15° 15° 1	morning set				morning set			
minimum elong 3489 Nov 13 06:30 21° m29'53 0°31'58 minimum elong 3490 Oct 25 20:49 3° m107'27 1°05'50 desc. node 3489 Nov 17 21:06 29° m105'54 max. Earth dist. 3490 Nov 02 07:10 15° m50'04 1.42127 AU desc. node 3490 Nov 04 18:07 19° m52'44 max. Earth dist. 3489 Nov 19 18:59 2° え11'37 1.43761 AU evening rise 3490 Nov 08 04:06 25° m123'06 evening rise 3489 Nov 28 08:51 15° え43'08 3490 Dec 07 18:39 0° 云 3490 Dec 01 16:27 0° 云	morning set	JT0/110V U1 10.30	1 1160040			5770 OCL 24 02.29	O IIIG	
minimum elong 3489 Nov 13 06:30 21° m29'53 0°31'58 minimum elong 3490 Oct 25 20:49 3° m107'27 1°05'50 desc. node 3489 Nov 17 21:06 29° m105'54 max. Earth dist. 3490 Nov 02 07:10 15° m50'04 1.42127 AU desc. node 3490 Nov 04 18:07 19° m52'44 max. Earth dist. 3489 Nov 19 18:59 2° え11'37 1.43761 AU evening rise 3490 Nov 08 04:06 25° m123'06 evening rise 3489 Nov 28 08:51 15° え43'08 3490 Dec 07 18:39 0° 云 3490 Dec 01 16:27 0° 云	superior coni	3/80 Nov 12 02:25	21°M 16'50	0°32'25	cuperior coni	3/190 Oct 25 16:22	20M YOUYU	1°06'22
desc. node 3489 Nov 17 21:06 29° IL 05'54 max. Earth dist. 3490 Nov 02 07:10 15° IL 50'04 1.42127 AU desc. node 3490 Nov 04 18:07 19° IL 52'44 max. Earth dist. 3489 Nov 18 10:25 0° 🗷 1.43761 AU evening rise 3490 Nov 08 04:06 25° IL 23'06 evening rise 3489 Nov 28 08:51 15° 🗷 43'08 3490 Nov 11 02:20 0° 🗷 3489 Dec 07 18:39 0° 🗟 3490 Dec 01 16:27 0° 🗟								
3489 Nov 18 10:25 0° ₹ desc. node 3490 Nov 04 18:07 19° 11.52'44 max. Earth dist. 3489 Nov 19 18:59 2° ₹ 11'37 1.43761 AU evening rise 3490 Nov 08 04:06 25° 11.23'06 evening rise 3489 Nov 28 08:51 15° ₹ 43'08 3490 Nov 11 02:20 0° ₹ 3490 Dec 07 18:39 0° ₹ 3490 Dec 01 16:27 0° ₹	•			0 31 36	•			
max. Earth dist. 3489 Nov 19 18:59 2° ₹ 11'37 1.43761 AU evening rise 3490 Nov 08 04:06 25° 11.23'06 evening rise 3489 Nov 28 08:51 15° ₹ 43'08 3490 Nov 11 02:20 0° ₹ 3490 Dec 07 18:39 0° ₹ 3490 Dec 01 16:27 0° ₹	uese. Houe							1.4414/ AU
evening rise 3489 Nov 28 08:51 15° 🗷 43'08 3490 Nov 11 02:20 0° 🗷 3489 Dec 07 18:39 0° 舌 3490 Dec 01 16:27 0° 舌	may Forth 1:-4			1 /27/1 ATT				
3489 Dec 07 18:39 0°る 3490 Dec 01 16:27 0°る				1.45/01 AU	evening rise			
	evening rise							
evening max ei 3489 Dec 28 07:22 27 040:45 21 08:57 evening max ei 3490 Dec 11 01:33 11 01:423 22 24:36	i- 1			21909927				22024126
	evening max el	3489 Dec 28 07:22	21 040 45	21-08-37	evening max el	3490 Dec 11 01:33	11 01423	22-24-30

	2400 D 20, 17-26	16° る 59'19			2401 N 22 15.46	249.751102	22944126
retrograde	3490 Dec 20 17:36			evening max el	3491 Nov 23 15:46	24° х 51'03	23°44'26
evening set	3490 Dec 25 07:42	15° る 07'53		_	3491 Nov 30 03:43	0° ろ	
asc. node	3490 Dec 25 09:02	15° る 05'07		retrograde	3491 Dec 04 10:40	1° る 12'59	
inferior conj	3490 Dec 30 16:15	8° る 46'47	1°43'27		3491 Dec 08 08:13	30°Ŗ ⋌ ¹	
minimum elong	3490 Dec 30 14:09	8° る 54'03	1°42'41	evening set	3491 Dec 09 13:40	29° ₹ 05'13	
min. Earth dist.	3490 Dec 30 13:24	8° ろ 56'38	0.67957 AU	asc. node	3491 Dec 12 06:04	26° ₰ 16'37	
morning rise	3491 Jan 04 20:29	2° る 36'45		inferior conj	3491 Dec 14 23:41	22° 渘 ¹40′19	0°55'18
direct	3491 Jan 09 12:09	0° る 40'49		minimum elong	3491 Dec 14 22:26	22° ∡ ¹44'37	0°54'47
morning max el	3491 Jan 18 20:04	6° る 09'48	22°09'21	min. Earth dist.	3491 Dec 14 10:03	23° ∡ ¹26'48	0.67854 AU
desc. node	3491 Jan 31 17:19	22° る 15'04		morning rise	3491 Dec 20 07:11	16° ∡ ³34'38	
	3491 Feb 06 02:56	0° ≈		direct	3491 Dec 24 08:45	15° ∡ '01'32	
morning set	3491 Feb 20 23:48	22° ≈ 54'41		morning max el	3492 Jan 01 13:57	19° ∡ ¹45'55	20°48'58
	3491 Feb 25 07:30	0°)			3492 Jan 10 00:22	0°ප	
max. Earth dist.	3491 Feb 26 12:27	2° ₩ 01'06	1.41012 AU	desc. node	3492 Jan 18 14:22	12° る 13'53	
max. Earth dist.	5471100 20 12.27	2 7(0100	1.41012710	dese. Hode	3492 Jan 30 07:43	0°≈	
superior conj	3491 Mar 06 06:50	15°) 27′01	2001/10	morning set	3492 Jan 31 05:02	0 ~ 1°≈22'59	
	3491 Mar 06 10:11	15° X 41'58		•	3492 Feb 08 16:38	1 ≈22 39 14°≈52'07	1.42928 AU
minimum elong			2.01.07	max. Earth dist.	3492 Feb 08 10:38	14*≈32*07	1.42928 AU
	3491 Mar 14 06:10	0° Υ					
evening rise	3491 Mar 16 15:47	4° Υ 28'31		superior conj	3492 Feb 15 12:40	26°≈10′24	
asc. node	3491 Mar 23 08:22	16° Ƴ 42'21		minimum elong	3492 Feb 15 11:56	26°≈07'20	2°06'51
	3491 Apr 01 12:16	$0^{\circ}S$			3492 Feb 17 18:45	0° ∀	
evening max el	3491 Apr 01 21:32	0° 8 23'11	18°16'22	evening rise	3492 Feb 27 09:57	16°) 51′34	
retrograde	3491 Apr 09 00:02	3° 8 56'09			3492 Mar 05 21:30	0° Y	
evening set	3491 Apr 11 11:19	3° 8 31'18		asc. node	3492 Mar 09 05:23	5° Y 25'34	
	3491 Apr 17 04:13	30° ŖƳ		evening max el	3492 Mar 15 08:58	13° Y 26′57	18°06'59
inferior conj	3491 Apr 18 13:31	28° Ƴ 49'21	2°47'50	retrograde	3492 Mar 21 22:32	16° Ƴ 50'07	
minimum elong	3491 Apr 18 17:03	28° Ƴ 41'42	2°47'02	evening set	3492 Mar 24 15:45	16° Ƴ 15′02	
min. Earth dist.	3491 Apr 21 23:31	25°Υ53'35	0.59385 AU	inferior conj	3492 Mar 31 03:02		3°25'03
morning rise	3491 Apr 25 20:09	23° Υ 10'04	0.57505710	minimum elong	3492 Mar 31 05:04	11° Y 07'43	3°24'48
desc. node	3491 Apr 29 16:30	21° Y 37'03		min. Earth dist.	3492 Apr 03 04:53	8° Υ 10'19	0.61555 AU
direct	3491 May 02 04:27	21° $\Upsilon 20'00$		morning rise	3492 Apr 06 16:40	5°Υ15'41	0.01333 AO
	•	21 γ 20 00 29° γ 08'18	27921127	•	-	2°Υ52'56	
morning max el	3491 May 16 13:16		27°21'27	direct	3492 Apr 13 12:09	2° γ 32'36 3° γ 05'06	
	3491 May 17 09:53	0°8		desc. node	3492 Apr 15 13:31		
	3491 Jun 07 09:44	$\Pi^{\circ 0}$		morning max el	3492 Apr 27 16:38	10° Y 50′21	27°50'07
morning set	3491 Jun 16 15:21	17° Ⅱ 57'11			3492 May 12 16:14	0°8	
asc. node	3491 Jun 19 07:41	23° Ⅲ 38′16			3492 May 29 15:07	Π $^{\circ}0$	
	3491 Jun 22 05:50	0 \circ \odot		morning set	3492 May 30 19:17	2° Ⅲ 23′04	
				asc. node	3492 Jun 05 04:41	13° Ⅱ 46′02	
superior conj	3491 Jun 23 18:09	3° 5 19'48	0°45'12	max. Earth dist.	3492 Jun 05 15:58	14° Ⅱ 47'09	1.32296 AU
minimum elong	3491 Jun 23 16:19	3°509'42	0°44'51				
max. Earth dist.	3491 Jun 23 06:04	2°©13'12	1.32062 AU	superior conj	3492 Jun 07 04:32	18° Ⅱ 06'24	0°20'51
evening rise	3491 Jun 30 14:08	18°912'58		minimum elong	3492 Jun 07 03:35	18° Ⅱ 01'13	
e vennig rise	3491 Jul 06 09:29	0°N		g	3492 Jun 12 15:17	0°95	0 2000
	3491 Jul 25 23:22	0° m		evening rise	3492 Jun 14 01:29	3° © 03'12	
desc. node	3491 Jul 26 15:49	0° mp 44'53		evening rise	3492 Jun 28 13:17	0°Ω	
evening max el	3491 Jul 29 01:37	3° m) 11'23	26°04'49		3492 Jul	14° Ω 02'24	24941144
-		•	20 04 49	evening max el	3492 Jul 12 12:50		24 41 44
retrograde	3491 Aug 12 01:02	10° m, 20'31		desc. node		16° Ω 30'48	
evening set	3491 Aug 18 09:59	8° Mp 42'12	0.500.60 177	retrograde	3492 Jul 23 15:20	21° Ω 05'01	
min. Earth dist.	3491 Aug 22 14:12		0.58962 AU	evening set	3492 Jul 28 18:44	20° Ω 05'20	
inferior conj	3491 Aug 25 20:42	3° m 40'24		min. Earth dist.	3492 Aug 03 04:24		0.57023 AU
minimum elong	3491 Aug 26 00:09	3° Mp 33'56	4°58'03	inferior conj	3492 Aug 06 00:24	15° Ω 25'35	
	3491 Aug 31 13:42	30° R Ω		minimum elong	3492 Aug 05 22:48	15° Ω 28'12	5°06'00
morning rise	3491 Sep 02 16:32	29° Ω 12'54		morning rise	3492 Aug 14 05:27	11° Ω 19'42	
direct	3491 Sep 05 03:10	28° Ω 52'52		direct	3492 Aug 16 20:20	11° Ω 00'33	
	3491 Sep 09 11:07	0° m		morning max el	3492 Aug 26 02:46	15° Ω 20'33	19°21'32
morning max el	3491 Sep 13 03:32	2° Mp 43'42	18°30'19	asc. node	3492 Sep 01 03:54	22° Ω 43'19	
asc. node	3491 Sep 15 06:52	5° m 01'18			3492 Sep 05 14:13	0° m p	
morning set	3491 Sep 29 06:16	28° m 26'09		morning set	3492 Sep 12 06:46	12° m)48'11	
	3491 Sep 30 01:43	0° ರ			3.52 Sep 12 00.10	''y' ''	
	5 151 Бер 50 01.45	~ –		superior conj	3492 Sep 20 09:07	28° m 56'07	1°41'09
gunariar car:	2401 Oct 00 04:21	150 0 27120	1020155		•		
superior conj	3491 Oct 08 04:21	15° £ 27'30		minimum elong	3492 Sep 20 10:44	-	1°41'04
minimum elong	3491 Oct 08 07:40		1°28'37		3492 Sep 20 22:14	0° ⊽	1.000.50
max. Earth dist.	3491 Oct 15 13:59	28° ≏ 45'55	1.40142 AU	max. Earth dist.	3492 Sep 26 17:55	10° ≙ 59'50	1.38062 AU
	3491 Oct 16 07:06	0°M₊		evening rise	3492 Sep 30 12:17	17° ≏ 45'21	
evening rise	3491 Oct 19 20:28	6°M01'54			3492 Oct 07 18:17	0° M	
desc. node	3491 Oct 22 15:09	10°M36'26		desc. node	3492 Oct 08 12:11	1°M12'16	
	3491 Nov 04 05:28	0° ∡ ¹			3492 Oct 28 13:57	0° ∡ ″	

evening max el	3492 Nov 05 04:11	8° ∡ 31'29	25°01'47		3493 Aug 28 18:45	0° mp	
retrograde	3492 Nov 16 23:41	15° ₹ 22'22					
evening set	3492 Nov 22 16:26	12° ₹ 59'28		superior conj	3493 Sep 04 02:05	13°Mp00'48	1°44'41
min. Earth dist.	3492 Nov 27 04:52	7° ₹ 55'04	0.67405 AU	minimum elong	3493 Sep 04 02:03	13°Mp00'39	1°44'40
inferior conj	3492 Nov 28 05:12	6° ₹ 35'11	0°01'49	max. Earth dist.	3493 Sep 09 00:58	•	1.36136 AU
minimum elong transit middle	3492 Nov 28 05:09 3492 Nov 28 05:09	6° ₹35'21 6° ₹35'21	0°01'47 0°01'47	ovening rise	3493 Sep 12 18:58 3493 Sep 13 00:42	0° ჲ 0° ჲ 26'35	
transit begin	3492 Nov 28 03:09 3492 Nov 28 02:24	6° ₹ '44'24	0 0147	evening rise desc. node	3493 Sep 13 00.42 3493 Sep 25 09:11	0 <u>≈</u> 2033 21° <u>≈</u> 35'17	
transit end	3492 Nov 28 07:54	6°×726'19		dese. Hode	3493 Sep 30 21:48	0°M	
asc. node	3492 Nov 28 03:05	6° х 42′09		evening max el	3493 Oct 18 16:35	22°M13'18	26°09'16
morning rise	3492 Dec 03 18:04	0° ≯ 36'09		retrograde	3493 Oct 31 07:41	29°M22'01	
C	3492 Dec 04 18:48	30°RM		evening set	3493 Nov 06 14:12	26°M47'02	
direct	3492 Dec 07 07:09	29°M23'41		min. Earth dist.	3493 Nov 10 19:28	22°M18'02	0.66614 AU
	3492 Dec 09 22:08	0° ∡ ″		inferior conj	3493 Nov 12 06:56	20° M $28'15$	-0°55'49
morning max el	3492 Dec 14 15:40	3° х ³33′03	19°41'10	minimum elong	3493 Nov 12 08:25	20°M23'37	0°55'11
greatest brilliancy	3492 Dec 27 19:42	20° ∡ 57′27	-0.7m	asc. node	3493 Nov 15 00:08	17° ™ 16'48	
	3493 Jan 02 19:41	0°る		morning rise	3493 Nov 18 03:06	14°M38'29	
desc. node	3493 Jan 04 11:25	2° ට 31'44		direct	3493 Nov 21 05:41	13°M43'22	10040125
morning set	3493 Jan 09 01:15	9°ප33'58 28°ප30'52	1 4425C ATT	morning max el	3493 Nov 28 00:35	17°M28'22 0°⊀	18°48'35
max. Earth dist.	3493 Jan 21 04:04 3493 Jan 22 02:30	28° ⊙ 30′52	1.44356 AU	morning set	3493 Dec 07 13:24 3493 Dec 19 13:38	0° × ′ 18° × ⁷ 40′14	
	3493 Jan 22 02.30	0 ~		morning set desc. node	3493 Dec 19 13:38 3493 Dec 22 08:27	23°×702'58	
superior conj	3493 Jan 25 16:33	5°≈44'34	-1°55'17	dese. Hode	3493 Dec 26 18:41	0°る	
minimum elong	3493 Jan 25 09:57	5°≈17'58		max. Earth dist.	3494 Jan 03 21:08	0 3 12° る 42'41	1.45130 AU
evening rise	3493 Feb 08 08:45	28° ≈ 21'52				_	
C	3493 Feb 09 07:57	0°)		superior conj	3494 Jan 04 23:34	14° る 26'30	-1°24'20
asc. node	3493 Feb 24 02:23	23°) €31′09		minimum elong	3494 Jan 04 14:28	13° る 50'44	1°23'22
evening max el	3493 Feb 26 21:41	26°) 45′30	18°16'38		3494 Jan 14 19:28	0° ≈	
	3493 Mar 03 19:28	0 ° $\mathbf{\Upsilon}$		evening rise	3494 Jan 20 08:47	8° ≈ 54'53	
retrograde	3493 Mar 05 08:15	0° Υ 12'33			3494 Feb 02 14:34	0° ∀	
	3493 Mar 06 20:55	30° ₹		evening max el	3494 Feb 10 08:59	10°) 12′02	18°44'26
evening set	3493 Mar 08 07:12	29° H 26'02	2020110	asc. node	3494 Feb 10 23:24	10°) 47'32	
inferior conj	3493 Mar 14 07:27 3493 Mar 14 07:41	24°) (04'34 24°) (03'56	3°38'10 3°38'10	retrograde	3494 Feb 17 01:08 3494 Feb 20 06:14	13° ¥ 55′01 12° ¥ 56′08	
minimum elong min. Earth dist.	3493 Mar 16 19:19	24 \(\)(03 30 \) 21°\(\)(18'04	0.63568 AU	evening set inferior conj	3494 Feb 25 00:14 3494 Feb 25 22:51	7° H 16'55	3°33'16
morning rise	3493 Mar 20 07:15	17°) 57'55	0.03300 AC	minimum elong	3494 Feb 25 21:37	7° ∺ 20'41	3°33'10
direct	3493 Mar 27 04:43	15°) 13'45		min. Earth dist.	3494 Feb 27 19:01	5° ₩ 02'05	0.65255 AU
desc. node	3493 Apr 02 10:33	17°) €06'28		morning rise	3494 Mar 03 12:34	1°) €05'33	
morning max el	3493 Apr 10 00:28	23°) 11'19	27°41'22	C	3494 Mar 04 22:21	30° R ≈	
	3493 Apr 16 01:54	0 ° \mathbf{Y}		direct	3494 Mar 10 04:19	28° ≈ 14'24	
	3493 May 05 22:39	9° 8			3494 Mar 15 23:31	0°) €	
morning set	3493 May 14 16:26	16° 8 25'37		desc. node	3494 Mar 20 07:37	3° ∺ 07'01	
max. Earth dist.	3493 May 19 19:52		1.32958 AU	morning max el	3494 Mar 23 10:09	6° ∺ 01'01	26°59'15
	3493 May 21 05:58	Π $^{\circ}0$			3494 Apr 10 19:43	0°Υ 200 Ω 5.420	
	240234 22 11 47	201720120	0006106	morning set	3494 Apr 28 03:40	29° Y 54'30	
superior conj	3493 May 22 11:47	2° П 39'30 2° П 41'07		may Earth dist	3494 Apr 28 04:48 3494 May 02 14:10	0°8	1.34076 AU
minimum elong behind sun begin	3493 May 22 12:05 3493 May 22 07:08	2° I I4'31	0 00 02	max. Earth dist.	3494 May 02 14.10	8 O 3940	1.340/0 AU
behind sun end	3493 May 22 17:02	3° I 14'31'		superior conj	3494 May 06 13:46	16° 8 51'46	-0°34'36
asc. node	3493 May 23 01:42	3° ∏ 54'20		minimum elong	3494 May 06 15:34	17° 8 01'11	
evening rise	3493 May 29 13:15	17° Ⅱ 50'53		asc. node	3494 May 09 22:44	23° 8 58'23	
-	3493 Jun 04 13:11	0ಂತಾ			3494 May 12 19:07	$\Pi^{\circ}0$	
evening max el	3493 Jun 21 06:30	24° © 29'33	23°05'44	evening rise	3494 May 13 23:31	2° Ⅱ 28′56	
desc. node	3493 Jun 29 09:48	0° Ω 07'45			3494 May 29 14:31	0 \circ \odot	
	3493 Jun 29 02:18	$0^{\circ}\Omega$		evening max el	3494 Jun 03 01:08	5° 5 03'24	21°32'09
retrograde	3493 Jul 04 16:55	1° Ω 11'40		retrograde	3494 Jun 15 07:35	11° © 05'33	
evening set	3493 Jul 08 07:52	0° Ω 42'57		desc. node	3494 Jun 16 06:49	11°503'23	
· F d F d	3493 Jul 10 12:22	30°R≌	0.55550 ATT	evening set	3494 Jun 17 18:17	10°951'57	2004104
min. Earth dist.	3493 Jul 15 15:45		0.55559 AU	inferior conj	3494 Jun 27 03:39	6°951'32	
inferior conj minimum elong	3493 Jul 17 08:35 3493 Jul 17 01:28	26°\$25'50 26°\$36'13		minimum elong min. Earth dist.	3494 Jun 26 19:46 3494 Jun 27 02:44	7° © 02'32 6° © 52'49	0.54874 AU
morning rise	3493 Jul 25 21:25	20 \$30 13 22° \$33'21	T 2021	morning rise	3494 Jul 05 22:10	2°956'54	0.27017 AU
direct	3493 Jul 28 18:51	22°513'23		direct	3494 Jul 09 05:30	2°533'07	
morning max el	3493 Aug 08 14:37	27° © 14'48	20°34'09	morning max el	3494 Jul 21 14:56	8° © 23'53	22°05'37
-	3493 Aug 11 06:21	$0^{\circ}\Omega$		asc. node	3494 Aug 05 22:00	0° £ 13′36	
asc. node	3493 Aug 19 00:57	11° Ω 11'12			3494 Aug 05 19:06	$0^{\circ}\Omega$	
morning set	3493 Aug 27 13:02	27° Ω 27'01		morning set	3494 Aug 11 22:52	12° Ω 16′36	

	2404 4 10 02 22	270 020120	1041101		2405 4 02 10 24	120 01 (120	1021122
superior conj	3494 Aug 19 03:32	27° Ω 30′38		superior conj	3495 Aug 03 10:34	12° Ω 16′30	
minimum elong	3494 Aug 19 02:14	27° Ω 23'48	1°40'56	minimum elong	3495 Aug 03 08:30	12° Ω 05'17	1°31'10
	3494 Aug 20 08:00	0° m)		max. Earth dist.	3495 Aug 05 15:54	17° Ω 02'32	1.33301 AU
max. Earth dist.	3494 Aug 22 15:57	4° m ∕49′20	1.34522 AU	evening rise	3495 Aug 10 21:49	27° Ω 55'33	
evening rise	3494 Aug 27 05:17	13° Mp 53'56		•	3495 Aug 11 22:46	0° m/	
evening 1150	3494 Sep 05 01:22	0∘ ⊽			3495 Aug 29 06:26	0∘ ⊽	
1 1	-			1 1	-		
desc. node	3494 Sep 12 06:11	11° Ω 39'31		desc. node	3495 Aug 30 03:12	1° ≏ 16'23	
	3494 Sep 25 18:22	0°M₊		evening max el	3495 Sep 13 16:47	19° ≏ 06'36	27°24'35
evening max el	3494 Oct 01 05:13	5° ™ 49'06	26°59'13	retrograde	3495 Sep 27 06:39	26° ≏ 24'16	
retrograde	3494 Oct 14 10:10	13°M05'36		evening set	3495 Oct 04 09:39	23° ≏ 44'40	
evening set	3494 Oct 21 04:51	10°M23'59		min. Earth dist.	3495 Oct 08 02:31	20° ≏ 26′05	0.63983 AU
min. Earth dist.	3494 Oct 25 03:25	6°M31'07	0.65473 AU	inferior conj	3495 Oct 10 14:21	17° ≏ 50'47	-2°56'27
inferior conj	3494 Oct 27 02:49	4°M15'28		minimum elong	3495 Oct 10 19:12	17° ≏ 38'11	2°54'45
3							2 3443
minimum elong	3494 Oct 27 06:02	4°M06'14	1°54′43	morning rise	3495 Oct 17 06:00	12° ≏ 29'11	
	3494 Oct 31 06:36	30° ₹ Ω		direct	3495 Oct 19 18:25	11° ≏ 57'35	
asc. node	3494 Nov 01 21:12	28° ≏ 52'37		asc. node	3495 Oct 19 18:17	11° ≏ 57'35	
morning rise	3494 Nov 02 08:02	28° ₽ 38′08		morning max el	3495 Oct 26 07:09	15° ≏ 22'55	17°53'25
direct	3494 Nov 05 02:21	27° £ 56'35			3495 Nov 05 14:31	0° M	
	3494 Nov 10 00:00	0°M		morning set	3495 Nov 12 03:38	11°ML08'33	
morning max el	3494 Nov 11 14:40	1°M27'16	18°12'27		3495 Nov 23 08:33	0° ∡ 7	
•			10 1227		3493 NOV 23 00.33	0 x	
morning set	3494 Nov 30 06:57	29°M14'41					
	3494 Nov 30 18:02	0°⊀		superior conj	3495 Nov 24 22:31	2° ∡ 35′13	0°08'02
desc. node	3494 Dec 09 05:30	13° ∡ ⁴43'26		minimum elong	3495 Nov 24 23:25	2° ∡ ′38′53	0°07'54
				behind sun begin	3495 Nov 24 14:39	2° ₹ 03′08	
superior conj	3494 Dec 15 02:48	23° ₹ 05'02	-0°39'23	behind sun end	3495 Nov 25 08:11	3° ∡ 14'33	
minimum elong	3494 Dec 14 21:48	22° ∡ ¹45'18	0°38'42	desc. node	3495 Nov 26 02:31	4° ∡ ¹28'57	
max. Earth dist.	3494 Dec 17 16:48	27°×709'14	1.45162 AU	max. Earth dist.	3495 Nov 30 11:17	11° × ⁷ 29'21	1.44461 AU
max. Earth dist.		27×0914 0°る	1.43102 AU				1.44401 AU
	3494 Dec 19 12:19			evening rise	3495 Dec 10 21:33	27° ∡ ¹46'50	
evening rise	3494 Dec 31 10:32	18° る 36'34			3495 Dec 12 08:15	0°ಕ	
	3495 Jan 07 18:32	0° ≈			3496 Jan 01 18:34	0° ≈	
greatest brilliancy	3495 Jan 12 12:48	7° ≈ 17'55	-0.7m	evening max el	3496 Jan 07 19:22	7° ≈ 14'04	20°28'44
evening max el	3495 Jan 24 16:45	23° ≈ 42'38	19°29'07	retrograde	3496 Jan 15 20:10	11° ≈ 57'57	
asc. node	3495 Jan 28 20:27	27°≈01'38		asc. node	3496 Jan 15 17:31	11° ≈ 57'53	
retrograde	3495 Jan 31 22:00	27°≈52'01		evening set	3496 Jan 19 17:02	10° ≈ 31'27	
•		26°≈39'49		•	3496 Jan 25 02:08	4°≈23'44	2°45'52
evening set	3495 Feb 04 10:15		201.4150	inferior conj			
inferior conj	3495 Feb 09 22:00	20° ≈ 44'58	3°14'50	minimum elong	3496 Jan 24 23:38		2°45'12
minimum elong	3495 Feb 09 19:51	20°≈51'58	3°14'27	min. Earth dist.	3496 Jan 25 17:50	3° ≈ 30'15	0.67391 AU
min. Earth dist.	3495 Feb 11 03:10	19° ≈ 09'42	0.66533 AU		3496 Jan 28 11:33	30°Ŗ⋜	
morning rise	3495 Feb 15 05:14	14° ≈ 31'33		morning rise	3496 Jan 30 06:03	28° る 10'07	
direct	3495 Feb 21 09:58	11° ≈ 46′21		direct	3496 Feb 04 20:57	25° る 40'13	
morning max el	3495 Mar 05 19:42	19° ≈ 09'03	25°51'35		3496 Feb 13 14:39	0° ≈	
•			23 31 33				24020111
desc. node	3495 Mar 07 04:40	20°≈34'44		morning max el	3496 Feb 16 04:23	2°≈25'30	24°28'11
	3495 Mar 15 01:04	0° ∀		desc. node	3496 Feb 22 01:43	9° ≈ 04'06	
	3495 Apr 03 21:20	0 ° $\mathbf{\Upsilon}$			3496 Mar 08 03:52	0° ∀	
morning set	3495 Apr 11 00:57	12° Ƴ 38'39		morning set	3496 Mar 23 02:57	24°) €23'25	
max. Earth dist.	3495 Apr 14 21:11	19° Ƴ 52'01	1.35656 AU		3496 Mar 26 06:41	$0^{\circ}\mathbf{\Upsilon}$	
	•			max. Earth dist.	3496 Mar 26 18:51	0° Y 55'03	1.37615 AU
superior conj	3495 Apr 20 08:00	0° 8 36'26	-1°03'20				
minimum elong	3495 Apr 20 11:20	0° 8 53'15		superior conj	3496 Apr 02 15:13	13° Y 45'04	1020115
minimum clong	-		1 02 43				
	3495 Apr 20 00:46	0°8		minimum elong	3496 Apr 02 19:40	14° Y ′06'36	1°29'39
asc. node	3495 Apr 26 19:46	13° 8 54'23			3496 Apr 10 20:46	0°8	
evening rise	3495 Apr 28 06:18	16° 8 51'31		evening rise	3496 Apr 11 07:11	0° 8 51'45	
	3495 May 04 23:40	Π $^{\circ}0$		asc. node	3496 Apr 12 16:49	3° 8 38'00	
evening max el	3495 May 16 06:45	16° Ⅱ 09'37	20°12'15	evening max el	3496 Apr 28 00:24	27° 8 57'42	19°11'23
retrograde	3495 May 26 21:29	21° Ⅱ 19'47		· ·	3496 Apr 30 10:23	0° I I	
evening set	3495 May 28 21:04	21° ∏ 09'44		retrograde	3496 May 06 23:02	2° Ⅱ 18'40	
•	•			•			
desc. node	3495 Jun 03 03:51	19° Ⅱ 18'32		evening set	3496 May 09 00:15	2° Ⅱ 05'54	
inferior conj	3495 Jun 06 23:02	17° Ⅱ 10′55			3496 May 14 02:32	30° ₹ 8	
minimum elong	3495 Jun 06 19:53	17° Ⅱ 15'36	1°06'07	inferior conj	3496 May 17 08:33	27° 8 55'14	0°46'21
min. Earth dist.	3495 Jun 08 15:07	16° Ⅱ 11'38	0.55142 AU	minimum elong	3496 May 17 10:25	27° 8 52'06	0°45'42
morning rise	3495 Jun 15 17:16	12° Ⅱ 54′03		desc. node	3496 May 20 00:53	26° 8 06'56	
direct	3495 Jun 19 16:51	12° Ⅱ 19'42		min. Earth dist.	3496 May 20 06:13	25° 8 58'13	0.56320 AU
			22047157		•		0.30320 AU
morning max el	3495 Jul 03 07:14	18° Ⅱ 58'49	23°47'57	morning rise	3496 May 25 17:28	23° 8 03'31	
	3495 Jul 12 11:06	0°50		direct	3496 May 30 16:02	22° 8 06'51	
asc. node	3495 Jul 23 19:04	19° © 41'28		morning max el	3496 Jun 13 21:31	29° 8 23'47	25°27'29
morning set	3495 Jul 27 10:26	27° © 10'59			3496 Jun 14 12:22	$\Pi^{\circ}0$	
	3495 Jul 28 18:15	$\mathfrak{O}^{\circ}\mathfrak{O}$			3496 Jul 04 22:30	0 \circ \odot	

asc. node morning set	3496 Jul 09 16:06 3496 Jul 10 22:06	9° © 27'50 12° © 05'11		asc. node	3497 Jun 26 13:08 3497 Jun 26 19:28	29°∏26′09 0°©	
superior conj	3496 Jul 17 20:58	27° © 11'15	1°16'44	superior conj	3497 Jul 02 08:42	12° © 07'16	0°57'49
minimum elong	3496 Jul 17 18:36	26°958'20	1°16'24	minimum elong	3497 Jul 02 06:32	11°955'23	0°57'25
max. Earth dist.	3496 Jul 18 22:59	29° © 33'41	1.32498 AU	max. Earth dist.	3497 Jul 02 10:04	12°9514'50	1.32106 AU
	3496 Jul 19 03:49	0°N		evening rise	3497 Jul 09 05:44	27°503'02	
evening rise	3496 Jul 24 22:55	12° Ω 21'48		Ü	3497 Jul 10 15:40	$0^{\circ}\Omega$	
	3496 Aug 03 02:31	0° m)			3497 Jul 27 15:17	0° ™	
desc. node	3496 Aug 16 00:13	20° m 14'25		desc. node	3497 Aug 02 21:13	8° Mp 16'43	
	3496 Aug 24 03:26	0∘ ত		evening max el	3497 Aug 08 04:02	13° m 57′32	26°41'20
evening max el	3496 Aug 26 01:12	1° ≏ 53'24	27°19'36	retrograde	3497 Aug 22 02:51	21°Mp08'46	
retrograde	3496 Sep 08 20:41	9° 亞 08'39		evening set	3497 Aug 28 22:20	19° Mp 10'26	
evening set	3496 Sep 16 01:01	6° £ 43'02		min. Earth dist.	3497 Sep 01 17:56	16° My 33'53	0.60148 AU
min. Earth dist.	3496 Sep 19 15:25		0.62174 AU	inferior conj	3497 Sep 05 00:04	13° m 55'45	
inferior conj	3496 Sep 22 14:36	1° Ω 07'22		minimum elong	3497 Sep 05 05:07	13° m 45'27	4°39'11
minimum elong	3496 Sep 22 20:22	0° £ 53'59	3°51'41	morning rise	3497 Sep 12 13:55	9° Mp 14'40	
	3496 Sep 23 20:04	30°₹ ™		direct	3497 Sep 14 23:05	8° Mp 53'29	10010125
morning rise direct	3496 Sep 29 17:25 3496 Oct 02 02:40	26° Mp 04'42 25° Mp 39'44		morning max el asc. node	3497 Sep 22 10:48 3497 Sep 22 12:21	12° m 33'40 12° m 37'27	18-10-35
asc. node	3496 Oct 02 02.40 3496 Oct 05 15:20	26° Mp 36'09		asc. node	3497 Sep 22 12:21 3497 Oct 04 03:41	0° ⊡	
morning max el	3496 Oct 08 22:57	29° My 08'07	17°52'22	morning set	3497 Oct 04 05:41 3497 Oct 08 06:53	ი — 7° ჲ 41'47	
morning max cr	3496 Oct 09 19:01	0° ರ	17 32 22	morning set	5477 OCC 00 00.55	/ = 11 1/	
morning set	3496 Oct 24 21:37	24° ₽ 03'26		superior conj	3497 Oct 17 19:59	25° £ 25'11	1°17'16
. 8	3496 Oct 28 05:04	0°M₊		minimum elong	3497 Oct 18 00:01	25° ≏ 43'21	1°16'50
				C	3497 Oct 20 09:35	0°M	
superior conj	3496 Nov 04 20:36	13°ML23'22	0°48'10	max. Earth dist.	3497 Oct 25 11:04	8°M44'46	1.41310 AU
minimum elong	3496 Nov 05 00:33	13°ML40'13	0°47'39	desc. node	3497 Oct 29 20:34	16°M02'39	
desc. node	3496 Nov 11 23:33	25°M16'32		evening rise	3497 Oct 30 12:36	17° M 07'48	
max. Earth dist.	3496 Nov 12 01:41	25°M25'16	1.43123 AU		3497 Nov 07 17:06	0° ∡	
	3496 Nov 14 21:44	0° ∡ ¹			3497 Nov 29 09:08	0° ප	
evening rise	3496 Nov 19 09:11	7° ∡ °04'36		evening max el	3497 Dec 03 08:46	4° ප 22'04	22°58'30
	3496 Dec 04 15:15	0°₹		retrograde	3497 Dec 13 12:27	10° පි 23'19	
evening max el	3496 Dec 20 16:25	20°₹46'34	21°40'03	evening set	3497 Dec 18 07:47	8° る 25'11	
retrograde	3496 Dec 29 17:32	26°る09'23		asc. node	3497 Dec 19 11:35	7°る20'32	1022147
asc. node	3497 Jan 01 14:34 3497 Jan 03 00:45	25°る24'23 24°る27'28		inferior conj	3497 Dec 23 16:49	2°る02'05 2°る08'17	1°23'47 1°23'05
evening set inferior conj	3497 Jan 08 00:43	24 32728 18° る 10'12	2°08'22	minimum elong min. Earth dist.	3497 Dec 23 15:01 3497 Dec 23 09:25	2°る27'37	0.67956 AU
minimum elong	3497 Jan 08 09:03			iiiii. Eartii tiist.	3497 Dec 25 04:43	2 O2/3/ 30°R <i>X</i> ⁷	0.07930 AU
min. Earth dist.	3497 Jan 08 12:44	10 3 1027		morning rise	3497 Dec 28 22:09	25° × 53'28	
morning rise	3497 Jan 13 12:26	11°る58'08	0.07007110	direct	3498 Jan 02 07:44	24°×707'09	
direct	3497 Jan 18 12:32	9° ට 48'58		morning max el	3498 Jan 11 03:33	29° х 16′14	21°33'47
morning max el	3497 Jan 28 13:47	15° ⋜ 46'47	22°59'11	Ü	3498 Jan 11 20:36	0°ರ	
desc. node	3497 Feb 07 22:45	28° る 17'27		desc. node	3498 Jan 25 19:48	18° る 02'36	
	3497 Feb 09 05:00	0° ≈			3498 Feb 02 22:23	0° ≈	
	3497 Mar 01 04:16	0° ∀		morning set	3498 Feb 11 22:48	13° ≈ 58′10	
morning set	3497 Mar 04 03:23	4° ₩ 51'58		max. Earth dist.	3498 Feb 18 13:40	24° ≈ 41′28	1.41876 AU
max. Earth dist.	3497 Mar 08 13:44	12° ∺ 21'51	1.39779 AU		3498 Feb 21 17:57	0° ℋ	
	2407.14 16 07.12	2601/06145	1050101		2400 F 1 26 02 02	70)/20101	2005127
superior conj	3497 Mar 16 07:12	26° ₩ 06'45		superior conj	3498 Feb 26 03:02 3498 Feb 26 05:01	7°) 30'01 7°) 38'41	
minimum elong	3497 Mar 16 11:35 3497 Mar 18 09:39	26° ¥ 26'51 0° Ƴ	1°51′59	minimum elong	3498 Feb 26 05:01 3498 Mar 09 02:25	27° H 11'04	2°05'23
evening rise	3497 Mar 25 23:06	14° Υ 21'01		evening rise	3498 Mar 10 15:23	27 χ11 04 0° Υ	
asc. node	3497 Mar 30 13:52	23° Υ 03'26		asc. node	3498 Mar 17 10:53	12° Υ 04'32	
asc. node	3497 Apr 03 12:16	0° 8		evening max el	3498 Mar 25 13:08	23°Υ15'18	18°10'01
evening max el	3497 Apr 11 03:39	10° 8 22'31	18°30'43	retrograde	3498 Apr 01 08:36	26° Y 41'50	10 10 01
retrograde	3497 Apr 18 18:45	14° 8 07'55		evening set	3498 Apr 03 22:37	26° Ƴ 12'41	
evening set	3497 Apr 21 02:20	13° 8 48'16		inferior conj	3498 Apr 10 17:59	21° Y 22'07	3°06'57
inferior conj	3497 Apr 28 14:53	9° 8 18'41	2°12'56	minimum elong	3498 Apr 10 20:59	21° Y 15'12	3°06'25
minimum elong	3497 Apr 28 18:38	9° 8 11'16	2°11'52	min. Earth dist.	3498 Apr 14 01:39	18° Ƴ 20'31	0.60319 AU
min. Earth dist.	3497 May 02 01:03	6° 8 37'45	0.58165 AU	morning rise	3498 Apr 17 17:09	15° Y 34'24	
morning rise	3497 May 06 07:48	3° 8 54'14		desc. node	3498 Apr 23 18:57	13° Y 30'10	
desc. node	3497 May 06 21:55	3° 8 37'29		direct	3498 Apr 24 07:37	13° Y 29′23	
direct	3497 May 12 05:44	2° 8 24'28		morning max el	3498 May 08 14:39	21° Y 21'56	27°38'09
morning max el	3497 May 26 15:01		26°48'24		3498 May 16 02:59	8°0	
•	3497 Jun 10 21:33	0°II			3498 Jun 03 20:26	0° П	
morning set	3497 Jun 25 08:09	26° Ⅱ 52'43		morning set	3498 Jun 09 14:53	11° Ⅱ 28'11	

asc. node	3498 Jun 13 10:09	19° ∏ 31'46		morning set	3499 May 24 16:15	25° 8 44'56	
max. Earth dist.	3498 Jun 15 21:35	24° I 55'26	1.32117 AU	morning set	3499 May 26 17:58	0°Ⅱ	
max. Darm dist.	3170 Juli 13 21.33	21 433 20	1.52117710	max. Earth dist.	3499 May 30 05:36	7° ∏ 22'16	1.32531 AU
superior conj	3498 Jun 16 20:04	26°∏58'52	0°35'14	asc. node	3499 May 31 07:12	9° ∏ 40'13	1.52051110
minimum elong	3498 Jun 16 18:33	26° ∏ 50'35	0°34'55				
8	3498 Jun 18 04:59	0ಂತಾ		superior conj	3499 Jun 01 05:20	11° Ⅱ 40'14	0°09'41
evening rise	3498 Jun 23 16:00	11° 9 52'04		minimum elong	3499 Jun 01 04:53	11° ∏ 37'44	0°09'35
C	3498 Jul 02 20:43	$0^{\circ}\Omega$		behind sun begin	3499 Jun 01 00:43	11° Ⅱ 15′06	
desc. node	3498 Jul 20 18:13	25° Ω 00'47		behind sun end	3499 Jun 01 09:03	12° Ⅱ 00′23	
evening max el	3498 Jul 20 23:36	25° Ω 13'43	25°32'02	evening rise	3499 Jun 08 03:46	26° Ⅱ 42'05	
	3498 Jul 27 03:37	0° m			3499 Jun 09 17:23	0 \circ \odot	
retrograde	3498 Aug 03 23:07	2° Mp 20'04			3499 Jun 27 07:41	$0^{\circ}\Omega$	
evening set	3498 Aug 09 20:57	0° Mp 58'32		evening max el	3499 Jul 02 13:22	5° Ω 50'57	24°01'27
	3498 Aug 11 19:04	30° R Ω		desc. node	3499 Jul 07 15:13	9° £ 56′30	
min. Earth dist.	3498 Aug 14 11:36	28° Ω 19'04	0.58104 AU	retrograde	3499 Jul 16 07:47	12° Ω 46'48	
inferior conj	3498 Aug 17 15:20	26° Ω 06′18	-5°06'08	evening set	3499 Jul 20 20:05	12° Ω 01'45	
minimum elong	3498 Aug 17 16:56	26° Ω 03′28	5°06'04	min. Earth dist.	3499 Jul 26 23:50	9° Ω 02'03	0.56325 AU
morning rise	3498 Aug 25 15:12	21° Ω 48′04		inferior conj	3499 Jul 29 10:25	7° Ω 32'02	
direct	3498 Aug 28 03:28	21° Q 28'29		minimum elong	3499 Jul 29 06:13	7° Ω 38'31	4°56'20
morning max el	3498 Sep 05 15:24	25° Ω 30′22	18°49'27	morning rise	3499 Aug 06 18:58	3° Ω 33'33	
asc. node	3498 Sep 09 09:23	29° Ω 46'47		direct	3499 Aug 09 12:36	3° Ω 14'11	
	3498 Sep 09 13:21	0° ™		morning max el	3499 Aug 19 09:58	7° Ω 49'50	19°49'58
morning set	3498 Sep 22 02:50	21° m 50'38		asc. node	3499 Aug 27 06:25	17° Ω 49'55	
	3498 Sep 26 06:37	0∘ ⊽			3499 Sep 03 01:30	0°Щ	
				morning set	3499 Sep 06 06:07	6° Mp 21′10	
superior conj	3498 Sep 30 15:34	8° Ω 26'15	1°35'17				
minimum elong	3498 Sep 30 18:11	8° Ω 38'44	1°35'05	superior conj	3499 Sep 14 02:05	22° m 12'09	1°43'38
max. Earth dist.	3498 Oct 07 16:25	21° Ω 22'27	1.39254 AU	minimum elong	3499 Sep 14 02:58	22° m 16'34	1°43'35
evening rise	3498 Oct 11 15:00	28° £ 13'56		P. d. F.	3499 Sep 18 01:51	0₀ ʊ	1 27200 444
	3498 Oct 12 16:00	0°M		max. Earth dist.	3499 Sep 19 21:20	3° £ 26'13	1.37208 AU
desc. node	3498 Oct 16 17:34	6°M43'20		evening rise	3499 Sep 23 16:06	10° £ 23'16	
	3498 Nov 01 05:06	0° √ 100. ₹ 00/52	24010111	desc. node	3499 Oct 03 14:35	27° ≙ 14'34 0° IL	
evening max el	3498 Nov 15 22:06 3498 Nov 27 03:43	18° ₹ 00'53 24° ₹ 35'39	24°18'11		3499 Oct 05 08:25 3499 Oct 27 17:52	0°11℃ 0° √ 7	
retrograde evening set	3498 Nov 27 03.43 3498 Dec 02 12:34	24 x · 33 39 22° x 21'15		evening max el	3499 Oct 27 17.32 3499 Oct 29 10:21	0 x . 1° x 42′29	25°32'08
asc. node	3498 Dec 02 12.34 3498 Dec 06 08:36	18° × 06'24		retrograde	3499 Oct 29 10.21 3499 Nov 10 14:37	8° × ¹ 42'07	23 32 08
min. Earth dist.	3498 Dec 07 05:30	16° × 00° 24 16° × 57'18	0.67706 AU	evening set	3499 Nov 16 13:27	6°× 13'18	
inferior conj	3498 Dec 07 23:38	15° ₹ 56'23	0°33'12	min. Earth dist.	3499 Nov 20 22:41	1°×724'08	0.67112 AU
minimum elong	3498 Dec 07 22:50	15° × 50'23	0°32'52	inferior conj	3499 Nov 22 03:46	29°M50'54	
morning rise	3498 Dec 13 09:09	9° ₹ 53'20	0 3232	minimum elong	3499 Nov 22 04:20	29°M49'04	
direct	3498 Dec 17 05:18	8° √ 29'11		g	3499 Nov 22 00:56	30°RM₁	0 210,
morning max el	3498 Dec 25 00:40		20°18'27	asc. node	3499 Nov 23 05:38	28°M28'49	
5 5	3499 Jan 07 04:15	0°る		morning rise	3499 Nov 27 19:32	23°M55'46	
desc. node	3499 Jan 12 16:49	8° ප් 10'20		direct	3499 Dec 01 03:55	22°M51'10	
morning set	3499 Jan 21 21:12	22° ප 10'11		morning max el	3499 Dec 08 05:43	26°M48'34	19°16'57
-	3499 Jan 26 21:40	0° ≈		_	3499 Dec 11 02:19	0°⊀	
max. Earth dist.	3499 Jan 31 21:40	7° ≈ 56'48	1.43614 AU	greatest brilliancy	3499 Dec 21 21:46	15° ∡ 14'48	-0.7m
				desc. node	3499 Dec 30 13:52	28° х 34′36	
superior conj	3499 Feb 06 21:54	17° ≈ 43′56	-2°04'18		3499 Dec 31 11:54	ව°0	
minimum elong	3499 Feb 06 18:41	17° ≈ 30'37	2°04'12	morning set	3499 Dec 31 21:41	0° る 37'54	
	3499 Feb 14 04:57	0°) €		max. Earth dist.	3500 Jan 14 12:12	21° る 53'13	1.44774 AU
evening rise	3499 Feb 19 12:52	9°) 12'43					
	3499 Mar 03 22:52	0° Y		superior conj	3500 Jan 17 15:34	26° る 51'38	-1°44'26
asc. node	3499 Mar 04 07:55	0° Ƴ 33'01		minimum elong	3500 Jan 17 07:07	26° る 18'04	1°43'44
evening max el	3499 Mar 09 01:28	6° Y 26′14	18°08'44		3500 Jan 19 14:50	0°≈	
retrograde	3499 Mar 15 12:30	9° Y 49'22		evening rise	3500 Feb 01 02:20	20°≈19'21	
evening set	3499 Mar 18 08:14	9° Y ′09'23			3500 Feb 06 22:30	0° ∀	
inferior conj	3499 Mar 24 14:21	3°Υ58'28	3°33'07	asc. node	3500 Feb 19 04:56	18°) 19'13	
minimum elong	3499 Mar 24 15:36	3° Y 55'11	3°33'02	evening max el	3500 Feb 20 13:50	19°) 48′33	18°26'12
min. Earth dist.	3499 Mar 27 10:31	1° Υ 00'47	0.62451 AU	retrograde	3500 Feb 27 01:53	23°) (21'19	
	3499 Mar 28 11:27	30° ₹		evening set	3500 Mar 02 03:18	22°) (29'41	2025:50
morning rise	3499 Mar 30 21:40	27°) 56'40		inferior conj	3500 Mar 07 23:55	17° ¥ 00′10	3°37'58
direct	3499 Apr 06 19:02	25° ¥ 23'30		minimum elong	3500 Mar 07 23:28	17° ₩ 01'29	3°37'58
desc. node	3499 Apr 10 15:59	26°) €06'47 0° °		min. Earth dist.	3500 Mar 10 05:03	14° ¥ 25'46	0.64333 AU
mami: 1	3499 Apr 17 03:28		27050150	morning rise	3500 Mar 13 18:57	10° ¥ 50'47 8° ¥ 02'09	
morning max el	3499 Apr 20 20:12 3499 May 10 15:01	0° 8	27°50'50	direct desc. node	3500 Mar 20 14:36 3500 Mar 28 13:02	8° ★ 02'09 11° ★ 03'09	

morning max el	3500 Apr 03 05:27 3500 Apr 14 19:12	15° ¥ 56'47 0° Ƴ	27°27'08	morning max el	3501 Mar 16 15:25 3501 Mar 17 16:03	28°≈56'29 0° ℋ	26°33'04
	3500 May 03 08:47	0° 8			3501 Apr 08 14:49	0°Υ	
morning set	3500 May 08 09:39	9° 8 34'39	1 22270 444	morning set	3501 Apr 21 15:39	22° Y 47'13	
max. Earth dist.	3500 May 13 06:02	19° 0 22'37	1.33378 AU	may Earth dist	3501 Apr 25 09:22	0° と 0° と 49'59	1 24600 ATT
superior coni	3500 May 16 10:38	26° 8 05'08	0°18'04	max. Earth dist.	3501 Apr 25 19:30	0.049.39	1.34688 AU
superior conj minimum elong	3500 May 16 10:38 3500 May 16 11:33	26° 8 10'01	0°17'52	superior conj	3501 Apr 30 09:44	10° 8 07'21	-0°46'52
asc. node	3500 May 18 04:14	29° 8 47'09	0 17 32	minimum elong	3501 Apr 30 05:44 3501 Apr 30 12:12	10° 8 20'04	0°46'23
asc. node	3500 May 18 06:38	0°II		asc. node	3501 May 05 01:18	19° 8 48'43	0 4025
evening rise	3500 May 10 00:30 3500 May 23 15:10	11° ∏ 26′26		evening rise	3501 May 08 00:17	25° 8 59'13	
e vennig 1150	3500 Jun 02 04:29	0.2 11 270 70		overmig rise	3501 May 09 23:13	0°II	
evening max el	3500 Jun 14 03:50	16°9516'17	22°24'44	evening max el	3501 May 27 02:51	27° I 102'48	20°56'06
desc. node	3500 Jun 24 12:15	22°528'01		v , v	3501 May 30 16:23	0.ಣ	
retrograde	3500 Jun 27 04:33	22° © 44'33		retrograde	3501 Jun 07 17:37	2°5643'30	
evening set	3500 Jun 30 05:35	22° © 24'05		evening set	3501 Jun 09 21:10	2° © 32'35	
min. Earth dist.	3500 Jul 08 10:41	18° © 50'28	0.55152 AU	desc. node	3501 Jun 11 09:16	2° © 12'39	
inferior conj	3500 Jul 09 11:45	18° © 14'58	-3°58'59		3501 Jun 16 15:54	30°R∏	
minimum elong	3500 Jul 09 03:30	18° © 26'40	3°56'57	inferior conj	3501 Jun 19 05:16	28° ∏ 35′02	-2°16'29
morning rise	3500 Jul 18 03:28	14° © 24'15		minimum elong	3501 Jun 18 22:58	28° Ⅱ 43'58	2°14'17
direct	3500 Jul 21 04:19	14° © 03'23		min. Earth dist.	3501 Jun 19 22:37	28° Ⅱ 10′26	0.54867 AU
morning max el	3500 Aug 01 16:54	19° © 25'08	21°11'12	morning rise	3501 Jun 28 00:35	24° ∏ 32'48	
•	3500 Aug 10 05:11	$0^{\circ}\Omega$		direct	3501 Jul 01 13:43	24° Ⅱ 05'39	
asc. node	3500 Aug 14 03:29	6° Ω 33'35			3501 Jul 14 05:19	0 \circ \odot	
morning set	3500 Aug 21 14:09	21° Ω 05'15		morning max el	3501 Jul 14 13:21	0°518'32	22°48'24
	3500 Aug 25 20:28	0° m y		asc. node	3501 Aug 01 00:34	25° 5 47'53	
					3501 Aug 03 03:36	$0^{\circ}\Omega$	
superior conj	3500 Aug 28 23:06	6° ™ 29'03	1°43'55	morning set	3501 Aug 06 00:57	5° Ω 57'27	
minimum elong	3500 Aug 28 22:28	6° Mp 25′50	1°43'54				
max. Earth dist.	3500 Sep 02 07:08	15° m 17'03	1.35396 AU	superior conj	3501 Aug 13 03:16	21° Ω 06′53	1°37'35
evening rise	3500 Sep 06 11:56	23°M 25'26		minimum elong	3501 Aug 13 01:35	20° Ω 57'53	1°37'28
	3500 Sep 10 01:29	0∘ ত		max. Earth dist.	3501 Aug 16 01:44	27° Ω 18'31	1.33953 AU
desc. node	3500 Sep 20 11:36	17° ≙ 30′20			3501 Aug 17 08:56	0° ™	
	3500 Sep 29 00:05	0°M₊		evening rise	3501 Aug 20 22:08	7° m 09'00	
evening max el	3500 Oct 11 22:39	15°M21'52	26°33'02		3501 Sep 02 15:14	0∘ ⊽	
retrograde	3500 Oct 24 20:29	22°M35'48		desc. node	3501 Sep 07 08:36	7° ≏ 23'48	
evening set	3500 Oct 31 08:30	19°M56'49		evening max el	3501 Sep 24 11:01	28° ≏ 51'05	27°13'24
min. Earth dist.	3500 Nov 04 10:43	15°M43'21	0.66168 AU		3501 Sep 25 16:49	0°M	
inferior conj	3500 Nov 06 03:16	13°M41'37		retrograde	3501 Oct 07 20:40	6°M09'16	
minimum elong	3500 Nov 06 05:29	13°M34'58	1°20'14	evening set	3501 Oct 14 19:20	3°M27'24	
asc. node	3500 Nov 10 02:41	9°M23'46			3501 Oct 18 11:17	30° ₹ Ω	0.64076.433
morning rise	3500 Nov 12 03:07	7°M56'57		min. Earth dist.	3501 Oct 18 15:17		0.64876 AU
direct	3500 Nov 15 01:47	7°M08'14	10021112	inferior conj	3501 Oct 20 19:56	27° Ω 24'15	
morning max el	3500 Nov 21 17:13	10°M.46′13 0°⊀	18°31'12	minimum elong	3501 Oct 20 23:52	27° Ω 13'23	2°20'19
	3500 Dec 05 10:12			morning rise	3501 Oct 27 05:26	21° Ω 53'04	
morning set desc. node	3500 Dec 11 21:45 3500 Dec 17 10:55	10° ₹ 19'55 19° ₹ 09'59		asc. node direct	3501 Oct 27 23:46 3501 Oct 29 20:50	21° £ 34'58 21° £ 16'17	
desc. Hode	3500 Dec 17 10:33 3500 Dec 24 07:37	0°る		morning max el	3501 Oct 29 20:30 3501 Nov 05 08:37	21° ⊆ 1017 24° ⊆ 44'01	18°02'08
	3300 Dec 24 07.37	0 O		morning max cr	3501 Nov 09 08:37	0°M	10 02 00
superior conj	3500 Dec 27 18:20	5° ♂ 24'46	-1°06'22	morning set	3501 Nov 23 03:16	21°M29'34	
minimum elong	3500 Dec 27 10:20	4°₹53'19		morning set	3501 Nov 28 06:25	0° √	
max. Earth dist.	3500 Dec 28 06:18		1.45228 AU	desc. node	3501 Dec 04 07:55	9° х 52′30	
man. Burur uist.	3501 Jan 12 09:12	0°≈	1.10220110	dese. Hode	3001 200 01 07.00	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
evening rise	3501 Jan 12 16:29	0°≈28'51		superior conj	3501 Dec 07 02:27	14° √ 19'13	-0°18'52
greatest brilliancy	3501 Jan 21 23:01	15°≈09'21	-0.8m	minimum elong	3501 Dec 07 00:07	14° ₹ 09'54	
8	3501 Feb 01 03:11	0° ∀		max. Earth dist.	3501 Dec 11 01:16	20° х 35′16	1.44945 AU
evening max el	3501 Feb 03 23:50	3°) €17'11	19°01'29		3501 Dec 17 01:28	0°ප	-
asc. node	3501 Feb 06 01:58	5°) 11′02		evening rise	3501 Dec 23 10:21	9° ප 52'20	
retrograde	3501 Feb 10 20:54	7°) 10′37		Č	3502 Jan 05 15:00	0° ≈	
evening set	3501 Feb 14 04:46	6°) €06'24		greatest brilliancy	3502 Jan 06 07:24	1° ≈ 00'56	-0.7m
inferior conj	3501 Feb 19 19:01	0°) 20′18	3°26'56	evening max el	3502 Jan 18 05:34	16° ≈ 48'14	19°52'57
minimum elong	3501 Feb 19 17:20	0°) 25′38	3°26'42	asc. node	3502 Jan 23 23:02	20° ≈ 53'33	
-	3501 Feb 20 01:26	30° R ≈		retrograde	3502 Jan 25 18:28	21° ≈ 11'22	
min. Earth dist.	3501 Feb 21 08:43	28° ≈ 21′25	0.65843 AU	evening set	3502 Jan 29 10:10	19° ≈ 53'22	
morning rise	3501 Feb 25 05:32	24° ≈ 07'34		inferior conj	3502 Feb 03 20:34	13° ≈ 52'58	3°03'43
direct	3501 Mar 03 17:04	21° ≈ 17'18		minimum elong	3502 Feb 03 18:12	14° ≈ 00′52	3°03'12
desc. node	3501 Mar 15 10:06	27° ≈ 44'33		min. Earth dist.	3502 Feb 04 19:54	12° ≈ 35′09	0.66945 AU

morning rise	3502 Feb 09 02:00	7° ≈ 39'18		direct	3503 Jan 29 14:14	19° る 00'29	
direct	3502 Feb 15 01:13	4° ≈ 59'21		morning max el	3503 Feb 09 08:46	25° る 25'34	23°50'29
morning max el	3502 Feb 27 00:17	12° ≈ 07'47	25°17'27		3503 Feb 13 12:33	0° ≈	
desc. node	3502 Mar 02 07:09	15° ≈ 40'40		desc. node	3503 Feb 17 04:11	4° ≈ 30'11	
	3502 Mar 13 08:55	0° ∀			3503 Mar 06 21:34	0° ∀	
	3502 Apr 01 08:03	$_{0}$ $^{\circ}$ $\mathbf{\Upsilon}$		morning set	3503 Mar 16 21:13	16° ¥ 21'23	
morning set	3502 Apr 04 05:27	5° Y 08'01		max. Earth dist.	3503 Mar 20 17:20	23°)(02'42	1.38530 AU
max. Earth dist.	3502 Apr 07 21:36	11° Υ 53'06	1.36447 AU	max. Earth dist.	3503 Mar 24 13:48	0°Υ	1.50550710
max. Lartii dist.	3302 Apr 07 21.30	11 13300	1.50447 AC		3303 Wai 24 13.40	0 1	
aumorior comi	3502 Apr 13 23:44	23° Y 38'02	1915107	superior conj	3503 Mar 28 01:02	6° Y °27'53	1940125
superior conj	•	23° Y $57'20$				6° Υ 49'48	
minimum elong	3502 Apr 14 03:38		1°14'29	minimum elong	3503 Mar 28 05:40		1°39'53
	3502 Apr 17 04:01	0°8		evening rise	3503 Apr 06 02:17	24° Y ′00'44	
asc. node	3502 Apr 21 22:20	9° 8 39'58		asc. node	3503 Apr 08 19:21	29° Ƴ 16'18	
evening rise	3502 Apr 22 04:51	10° 8 12'59			3503 Apr 09 04:29	9° 8	
	3502 May 02 22:24	Π $^{\circ}0$		evening max el	3503 Apr 22 11:55	20° 8 31'20	18°51'34
evening max el	3502 May 09 13:50	8° Ⅲ 27′13	19°43'57	retrograde	3503 Apr 30 19:33	24° 8 35'07	
retrograde	3502 May 19 10:37	13° Ⅱ 14'39		evening set	3503 May 02 23:27	24° 8 19'42	
evening set	3502 May 21 10:02	13° Ⅱ 03'59		inferior conj	3503 May 10 23:12	20° 8 01'07	1°27'05
desc. node	3502 May 29 06:20	9° Ⅱ 37'09		minimum elong	3503 May 11 02:16	19° 8 55'34	1°26'04
inferior conj	3502 May 29 00:20 3502 May 30 05:16	9° Ⅱ 01'45	001654	min. Earth dist.	3503 May 11 02:10 3503 May 14 04:07	17° 8 43'24	0.57049 AU
	•	9° I I01'45 9° I I02'56			•	_	0.57049 AU
minimum elong	3502 May 30 04:31		0°16'37	desc. node	3503 May 16 03:22	16° 8 26'34	
min. Earth dist.	3502 Jun 01 12:03	7° Ⅱ 36'54	0.55550 AU	morning rise	3503 May 19 01:54	14° 8 54'54	
morning rise	3502 Jun 07 20:39	4° Ⅱ 30'51		direct	3503 May 24 10:54	13° 8 45'19	
direct	3502 Jun 12 05:46	3° Ⅱ 48'17		morning max el	3503 Jun 07 18:48	21° 8 12'47	26°05'03
morning max el	3502 Jun 26 03:49	10° Ⅱ 45′02	24°31'23		3503 Jun 15 10:06	Π $^{\circ}0$	
	3502 Jul 10 15:46	0°ಅ			3503 Jul 03 05:30	0 \circ \mathfrak{S}	
asc. node	3502 Jul 18 21:37	15° © 24'09		morning set	3503 Jul 05 23:55	5° © 43'53	
morning set	3502 Jul 21 12:45	20° © 52'03		asc. node	3503 Jul 05 18:37	5° © 15'59	
morning out	3502 Jul 25 18:29	0°N		use. noue	2002 041 00 10.57	0 01000	
	5502 Jul 25 10.2)	0 00		superior conj	3503 Jul 12 23:08	20° © 52'37	1°09'12
	2502 1 1 20 11 50	50 0 5710 4	1005142				
superior conj	3502 Jul 28 11:59	5° Ω 57'04		minimum elong	3503 Jul 12 20:49	20°539'49	1°08'49
minimum elong	3502 Jul 28 09:44	5° Ω 44'48	1°25'28	max. Earth dist.	3503 Jul 13 14:33	22° © 17'26	1.32288 AU
max. Earth dist.	3502 Jul 30 05:07	9° Ω 39'59	1.32916 AU		3503 Jul 17 03:27	$0 {\circ} \Omega$	
evening rise	3502 Aug 04 18:43	21° Ω 22'19		evening rise	3503 Jul 19 22:32	5° Ω 55'40	
	3502 Aug 09 03:38	0° m ∕			3503 Aug 01 17:39	0° m ∕	
desc. node	3502 Aug 25 05:37	26° Mp 45'35		desc. node	3503 Aug 12 02:38	15° Mp 22'06	
	3502 Aug 27 13:53	0∘ ত		evening max el	3503 Aug 20 04:15	24° Mp 27′54	27°07'22
evening max el	3502 Sep 06 21:50	11° ≏ 57'59	27°26'29	S	3503 Aug 27 16:01	0° ٽ	
retrograde	3502 Sep 20 14:25	19° ≙ 14'10		retrograde	3503 Sep 03 00:55	1° ≏ 40'42	
evening set	3502 Sep 27 18:53	16° £ 39'21		retrograde	3503 Sep 09 03:22	30°R, Mp	
	•		0.62240.411		•		
min. Earth dist.	3502 Oct 01 10:19		0.63249 AU	evening set	3503 Sep 10 03:09	29° m 25'09	0.61225.433
inferior conj	3502 Oct 04 03:05	10° £ 52'52		min. Earth dist.	3503 Sep 13 18:33	-	0.61335 AU
minimum elong	3502 Oct 04 08:27	10° ≙ 39'32	3°19'35	inferior conj	3503 Sep 16 21:29	23° m 58'32	
morning rise	3502 Oct 10 23:24	5° £ 38'34		minimum elong	3503 Sep 17 03:14	23° Mp 45'56	4°13'32
direct	3502 Oct 13 10:09	5° £ 10'05		morning rise	3503 Sep 24 05:04	19° m 04'45	
asc. node	3502 Oct 14 20:50	5° ≏ 20'14		direct	3503 Sep 26 14:02	18° m 41'34	
morning max el	3502 Oct 20 01:08	8° ≏ 35'47	17°50'38	asc. node	3503 Oct 01 17:52	20° m 35'34	
	3502 Nov 03 04:48	0°M		morning max el	3503 Oct 03 15:38	22° m 13'28	17°57'42
morning set	3502 Nov 05 09:53	3°M52'09			3503 Oct 09 15:59	0∘ ত	
C				morning set	3503 Oct 19 11:02	17° ≏ 07'25	
superior conj	3502 Nov 17 08:55	24°M21'08	0°26'18		3503 Oct 26 12:55	0°M	
minimum elong	3502 Nov 17 00:33		0°25'56		3303 Oct 20 12.33	O IIO	
minimum clong			0 23 30		2502 0-4 20 10-17	50 m 42104	1901157
	3502 Nov 20 19:19	0° ⊼		superior conj	3503 Oct 29 18:17	5°M42'04	1°01'56
desc. node	3502 Nov 21 04:56	0° ∡ 39'08		minimum elong	3503 Oct 29 22:33	6° ™ 00'40	1°01'24
max. Earth dist.	3502 Nov 23 18:39	4° ≯ 48'22	1.43964 AU	max. Earth dist.	3503 Nov 06 07:32	18°M32'09	1.42400 AU
evening rise	3502 Dec 02 19:35	19° ₹ 01'01		desc. node	3503 Nov 08 01:56	21°M26'12	
	3502 Dec 10 00:40	0°ರ		evening rise	3503 Nov 12 12:28	28°M34'15	
	3502 Dec 31 22:01	0° ≈			3503 Nov 13 10:11	0° ∡ ¹	
evening max el	3503 Jan 01 05:55	0° ≈ 20′26	20°57'57		3503 Dec 03 17:22	0°ප	
retrograde	3503 Jan 09 16:23	5° ≈ 20'01		evening max el	3503 Dec 15 00:44	13° る 53'24	22°12'49
asc. node	3503 Jan 10 20:05	5°≈12'43		retrograde	3503 Dec 24 12:52	19° る 32'45	-
evening set	3503 Jan 10 20:03	3°≈46'58		asc. node	3503 Dec 24 12:32 3503 Dec 28 17:07	17° ප 59'31	
evening set	3503 Jan 17 07:01	30°Rる		evening set	3503 Dec 28 17:07 3503 Dec 29 01:09	17 る 3931 17° る 43'43	
infarior con:			2020155	•			1050/12
inferior conj	3503 Jan 19 02:06	27° る 34'58		inferior conj	3504 Jan 03 09:34		
minimum elong	3503 Jan 18 23:36	27°る43'37		minimum elong	3504 Jan 03 07:24	11°る30'58	
min. Earth dist.	3503 Jan 19 12:32	26° ろ 59'06	0.67638 AU	min. Earth dist.	3504 Jan 03 08:22	11° る 27'34	0.67945 AU
morning rise	3503 Jan 24 05:29	21° る 22'04		morning rise	3504 Jan 08 13:31	5° る 12'46	

direct	3504 Jan 13 07:18	3°る13'29		morning rise	3504 Dec 23 00:01	19° ₹ 09'49	
morning max el	3504 Jan 22 19:42	8° る 49'53	22°22'02	direct	3504 Dec 27 03:36	17° × 33'22	
desc. node	3504 Jan 22 19:42 3504 Feb 04 01:11	23° る 57'43	22 22 02	morning max el	3505 Jan 04 12:27	22° x 24'02	21°00'08
dese. node	3504 Feb 08 07:28	0° ≈		morning max cr	3505 Jan 10 23:52	0°る	21 00 00
morning set	3504 Feb 25 09:16	26°≈13'49		desc. node	3505 Jan 20 22:13	13°る52'57	
morning set	3504 Feb 27 16:25	0° ₩		dese. Hode	3505 Jan 31 15:03	0°≈	
max. Earth dist.	3504 New 27 10:23	4° ₩ 51'05	1.40696 AU	morning set	3505 Feb 03 17:45	4°≈50'15	
max. Dartii dist.	3304 Willi 01 14.02	4 7(3103	1.40070710	max. Earth dist.	3505 Feb 11 16:54	17°≈33'13	1.42668 AU
superior conj	3504 Mar 09 09:01	18° ¥ 25'25	-1°59'18	max. Earth dist.	3303100 11 10.51	17 74 03 13	1.12000710
minimum elong	3504 Mar 09 12:44	18°) 42′07		superior conj	3505 Feb 18 18:35	29° ≈ 19'03	-2°07'01
8	3504 Mar 15 16:39	0°Υ		minimum elong	3505 Feb 18 18:39	29°≈19'21	
evening rise	3504 Mar 19 13:19	7° Ƴ 14'14			3505 Feb 19 04:13	0°) €	
asc. node	3504 Mar 25 16:23	18° Ƴ 32'08		evening rise	3505 Mar 02 09:59	19° ¥ 44'09	
	3504 Apr 01 23:42	0°8		8	3505 Mar 08 04:25	0°Υ	
evening max el	3504 Apr 04 18:08	3° 8 08'32	18°19'30	asc. node	3505 Mar 12 13:25	7° Υ 20'07	
retrograde	3504 Apr 11 23:38	6° 8 44'23		evening max el	3505 Mar 19 05:09	16° Y 09'21	18°07'12
evening set	3504 Apr 14 09:54	6° 8 21'00		retrograde	3505 Mar 25 19:57	19° Y 32'56	
inferior conj	3504 Apr 21 14:40	1° 8 42'18	2°39'39	evening set	3505 Mar 28 12:20	18° Y 59'28	
minimum elong	3504 Apr 21 18:20	1° 8 34'33	2°38'46	inferior conj	3505 Apr 04 01:36	14°Υ00'20	3°21'04
8	3504 Apr 23 14:51	30° R Υ		minimum elong	3505 Apr 04 03:54	13° Y 54'43	3°20'45
min. Earth dist.	3504 Apr 25 01:07	28° Ƴ 49'31	0.59055 AU	min. Earth dist.	3505 Apr 07 05:15	10° Y 57'12	0.61234 AU
morning rise	3504 Apr 28 23:57	26°Υ06'25	0.09000110	morning rise	3505 Apr 10 17:36	8°Υ05'23	0.0125 . 110
desc. node	3504 May 02 00:22	24° Υ 49'40		direct	3505 Apr 17 12:07	5°Υ46'48	
direct	3504 May 05 05:44	24° Υ 21'37		desc. node	3505 Apr 18 21:25	5° Υ 52'19	
	3504 May 17 07:18	0°8		morning max el	3505 May 01 17:24	13° Y 43'31	27°48'17
morning max el	3504 May 19 14:59	2° 8 08'24	27°14'03		3505 May 14 18:24	0°8	
morning man er	3504 Jun 08 17:34	0°II	2, 1.03		3505 Jun 01 02:59	0°II	
morning set	3504 Jun 19 08:50	20° Ⅱ 27'45		morning set	3505 Jun 03 13:34	4°∏56'04	
asc. node	3504 Jun 21 15:38	25° I 18'16		asc. node	3505 Jun 08 12:40	15° ∏ 25'28	
	3504 Jun 23 19:38	0°ಅ		max. Earth dist.	3505 Jun 09 12:46	17° Ⅱ 36'17	1.32232 AU
		-					
superior conj	3504 Jun 26 10:57	5°947'54	0°48'40	superior conj	3505 Jun 10 21:39	20° ∏ 35'46	0°24'45
minimum elong	3504 Jun 26 09:01	5°937'15	0°48'17	minimum elong	3505 Jun 10 20:32	20° ∏ 29'42	
max. Earth dist.	3504 Jun 26 02:25	5°900'51	1.32058 AU		3505 Jun 15 04:42	0ಂಣ 	
evening rise	3504 Jul 03 07:05	20°541'21	1.52030 110	evening rise	3505 Jun 17 18:12	5° © 31'11	
	3504 Jul 07 20:12	0°N		* · · · · · · · · · · · · · · · · · · ·	3505 Jun 30 16:06	$0^{\circ}\Omega$	
	3504 Jul 26 11:43	0° m)		evening max el	3505 Jul 13 20:24	17° Ω 08'28	24°55'22
desc. node	3504 Jul 28 23:39	2° m/54'52		desc. node	3505 Jul 15 20:40	18° Ω 57'07	2.0022
evening max el	3504 Aug 01 03:53	6° m) 11'22	26°15'10	retrograde	3505 Jul 27 19:18	24° Ω 12'23	
retrograde	3504 Aug 15 03:17	13° m/21'20		evening set	3505 Aug 02 03:45	23° Ω 07'11	
evening set	3504 Aug 21 15:25	11° mp 37'28		min. Earth dist.	3505 Aug 07 07:55	20° Ω 20'47	0.57293 AU
min. Earth dist.	3504 Aug 25 16:48	9° mp 02'15	0.59270 AU	inferior conj	3505 Aug 10 06:23	18° Ω 24'06	
inferior conj	3504 Aug 28 23:37	6° m/32'12		minimum elong	3505 Aug 10 05:40	18° Ω 25'17	
minimum elong	3504 Aug 29 03:36	6° m/24'35		morning rise	3505 Aug 18 10:08	14°Ω15'03	
morning rise	3504 Sep 05 17:58	2° mp 01'15		direct	3505 Aug 21 00:12	13°Ω55'53	
direct	3504 Sep 08 04:06	1° m)41'01		morning max el	3505 Aug 30 01:39	18° Ω 10'55	19°12'29
morning max el	3504 Sep 16 00:55	5° m) 28'44	18°24'32	asc. node	3505 Sep 04 11:54	24° Ω 41'42	-,,
asc. node	3504 Sep 17 14:52	7° m 08'00			3505 Sep 07 20:51	0° m)	
	3504 Oct 01 12:46	0∘ ⊽		morning set	3505 Sep 16 00:46	15° m) 18'51	
morning set	3504 Oct 02 01:21	1° ≏ 00'12		Č	3505 Sep 23 10:24	0∘ <u>⊽</u>	
<i>3</i>					·r		
superior conj	3504 Oct 11 03:04	18° £ 11'44	1°26'11	superior conj	3505 Sep 24 05:36	1° ≏ 33'24	1°39'53
minimum elong	3504 Oct 11 06:36	18° ≏ 28'02	1°25'50	minimum elong	3505 Sep 24 07:29	1° Ω 42'34	1°39'46
Ü	3504 Oct 17 17:12	0°M₊		max. Earth dist.	3505 Sep 30 18:48	13° ≏ 52'15	1.38370 AU
max. Earth dist.	3504 Oct 18 14:45	1°ML33'14	1.40452 AU	evening rise	3505 Oct 04 13:46	20° £ 37'10	
evening rise	3504 Oct 23 01:20	9°ML03'15			3505 Oct 10 02:48	0°M	
desc. node	3504 Oct 24 22:57	12°ML10'26		desc. node	3505 Oct 11 19:59	2°M47'34	
	3504 Nov 05 10:47	0°×7			3505 Oct 30 12:10	0° ⊼ ¹	
evening max el	3504 Nov 26 15:23	27° × 129'20	23°32'31	evening max el	3505 Oct 50 12:10 3505 Nov 09 04:04	11° ₹ '09'39	24°50'47
	3504 Nov 29 08:34	0° ਰ		retrograde	3505 Nov 20 20:10	17° 🖍 56'42	~~ ./
retrograde	3504 Nov 27 06:34 3504 Dec 07 06:30	3° ठ 46'21		evening set	3505 Nov 26 10:48	15° × 36'03	
evening set	3504 Dec 07 00:30 3504 Dec 12 07:26	1°る41'04		min. Earth dist.	3505 Nov 20 10:48 3505 Dec 01 00:25	10° ₹ 26′26	0.67493 AU
January 301	3504 Dec 12 07:20 3504 Dec 14 00:41	30°R.★		asc. node	3505 Dec 01 00:25	9° х 2020	0.0,7 <i>)3 N</i> U
asc. node	3504 Dec 14 00:41 3504 Dec 14 14:08	29° ₹ 21'35		inferior conj	3505 Dec 01 11:09 3505 Dec 01 23:06	9° × 31 02	0°10'14
min. Earth dist.	3504 Dec 17 14:08 3504 Dec 17 05:07	25° 🖈 57'35	0.67893 AU	minimum elong	3505 Dec 01 23:00 3505 Dec 01 22:51	9° × 11129	0°10'14'
inferior conj	3504 Dec 17 03:07 3504 Dec 17 17:09	25° 🖈 16'23	1°02'57	transit middle	3505 Dec 01 22:51	9° x 12'19	0°10'07
minimum elong	3504 Dec 17 17:09 3504 Dec 17 15:44	25° × 1023	1°02'37 1°02'24	transit begin	3505 Dec 01 22:31 3505 Dec 01 20:42	9° × 1219	0 100/
minimum ciong	3307 DCC 17 13. 14	20 ^ 21 14	1 02 27	nansit oegin	3303 DCC 01 20.42	J A 1741	

transit end	3505 Dec 02 01:00	9° ₹ 05'12			3506 Nov 09 15:35	30°RM₊	
morning rise	3505 Dec 07 11:02	3° х 11′13		evening set	3506 Nov 10 09:28	29°M24'41	
direct	3505 Dec 11 01:54	1° ₹ '55'46		min. Earth dist.	3506 Nov 14 15:47	24°M50'27	0.66754 AU
morning max el	3505 Dec 18 12:59	6° ₹ 09'34	19°50'20	inferior conj	3506 Nov 16 01:33	23°M04'55	-0°46'52
	3506 Jan 05 01:46	8°0		minimum elong	3506 Nov 16 02:47	23°M01'01	0°46'19
desc. node	3506 Jan 07 19:16	4° る 08'23		asc. node	3506 Nov 18 08:13	20°M20'30	
morning set	3506 Jan 13 13:44	12° る 59'16		morning rise	3506 Nov 21 20:31	17°ML13'39	
	3506 Jan 24 10:47	0° ≈		direct	3506 Nov 25 00:34	16°M16'07	
max. Earth dist.	3506 Jan 25 03:32	1° ≈ 06'35	1.44186 AU	morning max el	3506 Dec 01 20:57	20°M03'51	18°55'25
					3506 Dec 09 16:32	0°⊀	
superior conj	3506 Jan 30 02:24	9° ≈ 03'43	-1°58'19	morning set	3506 Dec 23 22:30	21° ₹ 54'04	
minimum elong	3506 Jan 29 20:37	8° ≈ 40'19	1°58'00	desc. node	3506 Dec 25 16:17	24° ₹ 37'41	
	3506 Feb 11 16:30	0° ∀			3506 Dec 29 02:37	0°る	
evening rise	3506 Feb 12 11:59	1° ∺ 22'55		max. Earth dist.	3507 Jan 07 20:16	15° る 15'40	1.45063 AU
asc. node	3506 Feb 27 10:28	25°) (32′07					
evening max el	3506 Mar 02 17:56	29°) (26'19	18°14'00	superior conj	3507 Jan 09 11:42	17°₹50'51	
	3506 Mar 03 07:53	0° Υ		minimum elong	3507 Jan 09 02:32	17°る14'45	1°29'14
retrograde	3506 Mar 09 04:16	2°Υ51'47			3507 Jan 17 03:38	0° ≈	
evening set	3506 Mar 12 02:25	2°Υ06'57		evening rise	3507 Jan 24 15:34	12°≈04'40	
	3506 Mar 15 01:13	30° ₹	2027/24		3507 Feb 04 18:19	0°)(10020107
inferior conj	3506 Mar 18 04:05	26°) (48'12		evening max el	3507 Feb 14 05:38	12°) 51'58	18°39'07
minimum elong	3506 Mar 18 04:34 3506 Mar 20 18:11	26°\ 46'52 23°\ 58'16	3°37'24	asc. node	3507 Feb 14 07:32	12° ¥ 56'46 16° ¥ 31'53	
min. Earth dist.	3506 Mar 24 05:44	23° X 38'16 20° X 42'43	0.63292 AU	retrograde evening set	3507 Feb 20 20:24 3507 Feb 24 00:33	15° X 31'33	
morning rise direct	3506 Mar 31 03:31	18° H 00'56		inferior conj	3507 Net 24 00:33 3507 Mar 01 18:06	9° H 57'58	3034'56
desc. node	3506 Apr 05 18:27	18 ★ 32'25		minimum elong	3507 Mar 01 18:00 3507 Mar 01 17:04	10°) (01'07	
morning max el	3506 Apr 14 00:40	25° H 58'36	27°44'54	min. Earth dist.	3507 Mar 01 17:04 3507 Mar 03 16:33	7° H 37'53	0.65033 AU
morning max ci	3506 Apr 17 18:06	25 γ (3830	27 44 34	morning rise	3507 Mar 07 09:06	3°) 47′04	0.03033 AO
	3506 May 08 07:19	0°8		direct	3507 Mar 14 02:01	0° ¥ 56'15	
morning set	3506 May 18 11:53	19° 8 01'54		desc. node	3507 Mar 23 15:30	5° ₩ 17'13	
max. Earth dist.	3506 May 23 17:47	29° 8 51'35	1.32832 AU	morning max el	3507 Mar 27 10:20	8°) (45'00	27°07'19
	3506 May 23 19:23	0° I			3507 Apr 13 00:13	0°Υ	_, ,, ,,
	.,				3507 Apr 30 16:14	0°8	
superior conj	3506 May 26 05:29	5° Ⅱ 10'44	-0°01'52	morning set	3507 May 02 00:51	2° 8 36'19	
minimum elong	3506 May 26 05:35	5° Ⅱ 11'13	0°01'52	max. Earth dist.	3507 May 06 13:52	11° 8 37'33	1.33883 AU
behind sun begin	3506 May 26 00:19	4° Ⅱ 42'56			•		
behind sun end	3506 May 26 10:50	5° Ⅱ 39'32		superior conj	3507 May 10 08:26	19° 8 26'18	-0°30'14
asc. node	3506 May 26 09:44	5° Ⅱ 33'39		minimum elong	3507 May 10 09:59	19° 8 34'32	0°29'54
evening rise	3506 Jun 02 06:02	20° Ⅲ 19′10		asc. node	3507 May 13 06:49	25° 8 38'33	
	3506 Jun 06 23:16	0 \circ \odot			3507 May 15 08:01	$\Pi^{\circ}0$	
evening max el	3506 Jun 25 09:40	27° 9 36'51	23°20'15	evening rise	3507 May 17 16:41	4° Ⅱ 59'01	
	3506 Jun 28 02:39	0 $^{\circ}$ Ω			3507 May 31 10:12	0 \circ \odot	
desc. node	3506 Jul 02 17:42	2° Ω 55'30		evening max el	3507 Jun 07 02:58	8° 5 07'11	21°45'22
retrograde	3506 Jul 08 22:33	4° Ω 22'55		retrograde	3507 Jun 19 14:32	14° © 16'43	
evening set	3506 Jul 12 18:58	3° Ω 50′29		desc. node	3507 Jun 19 14:42	14° © 16'43	
min. Earth dist.	3506 Jul 19 19:23		0.55734 AU	evening set	3507 Jun 22 04:28	14° © 01'43	
	3506 Jul 20 21:12	30° ₹ 55		inferior conj	3507 Jul 01 13:31	9°559'28	
inferior conj	3506 Jul 21 17:15	29°530'22		minimum elong	3507 Jul 01 05:19	10°5010'56	
minimum elong	3506 Jul 21 10:46	29°539'56	4°3/'29	min. Earth dist.	3507 Jul 01 06:08		0.54912 AU
morning rise	3506 Jul 30 04:59	25°536'43		morning rise	3507 Jul 10 07:27	6°506'43	
direct	3506 Aug 02 01:27 3506 Aug 12 10:18	25° © 16'55 0° Ω		direct morning max el	3507 Jul 13 12:58 3507 Jul 25 17:10	5° © 43'51 11° © 26'53	21°51'10
morning max el	3506 Aug 12 10:18 3506 Aug 12 15:14	0° Ω 11'19	20°22'03	morning max er	3507 Jul 23 17:10 3507 Aug 08 03:32	0°Ω	21 31 10
asc. node	3506 Aug 22 08:58	13° Ω 03'11	20 22 03	asc. node	3507 Aug 09 06:02	2° Ω 01'00	
morning set	3506 Aug 31 06:21	29° Ω 55'39		morning set	3507 Aug 05 00:02 3507 Aug 15 15:49	14° Ω 44'17	
morning sec	3506 Aug 31 07:12	0° m		morning set	550, 11ug 15 15.79	1.06-71/	
	3300 Hug 31 07:12	V.,γ.		superior conj	3507 Aug 22 21:26	0° mp 00'20	1°41'58
superior conj	3506 Sep 07 21:00	15° m 33'18	1°44'38	minimum elong	3507 Aug 22 21:20 3507 Aug 22 20:18	29° £ 54′23	1°41'56
minimum elong	3506 Sep 07 21:13	15° m 34'19	1°44'38		3507 Aug 22 21:23	0° m	
max. Earth dist.	3506 Sep 13 01:15	25° m 47'36	1.36406 AU	max. Earth dist.	3507 Aug 26 15:00	7° Mp 42'56	1.34733 AU
	3506 Sep 15 06:23	0∘ <u>⊽</u>		evening rise	3507 Aug 31 01:52	16° m 31'40	
evening rise	3506 Sep 16 23:24	3° ₽ 10'19		ū	3507 Sep 07 10:29	0∘ <u>⊽</u>	
desc. node	3506 Sep 28 17:01	23° ≏ 12'53		desc. node	3507 Sep 15 14:02	13° ≏ 20'38	
	3506 Oct 03 02:43	0°M			3507 Sep 27 13:04	0° M.	
evening max el	3506 Oct 22 16:29	24°M51'45	26°00'10	evening max el	3507 Oct 05 05:04	8°M28'56	26°53'07
	3506 Oct 29 02:27	0° ∡ ″		retrograde	3507 Oct 18 08:13	15°M44'54	
retrograde	3506 Nov 04 04:53	1° ≯ 758′10		evening set	3507 Oct 25 01:20	13°M03'37	

min. Earth dist.	3507 Oct 29 00:48	9° M .05'33	0.65669 AU	min. Earth dist.	3508 Oct 11 01:20	23° ഫ 03'36	0.64226 AU
inferior conj	3507 Oct 30 22:27	6°M53'16		inferior conj	3508 Oct 13 11:22	20° ♀ 30'32	
minimum elong	3507 Oct 31 01:24	6°M44'41	1°45'34	minimum elong	3508 Oct 13 16:00	20° ≏ 18'19	2°45'45
asc. node	3507 Nov 05 05:16	1°ML44'37		morning rise	3508 Oct 20 01:25	15° ≏ 06′26	
morning rise	3507 Nov 06 02:15	1°ML14'01		asc. node	3508 Oct 22 02:18	14° ≙ 34'59	
direct	3507 Nov 08 21:37	0°M30'43		direct	3508 Oct 22 14:29	14° ≙ 33'39	
morning max el	3507 Nov 15 10:29	4°ML02'51	18°16'45	morning max el	3508 Oct 29 02:47	17° ≏ 59'22	17°55'06
	3507 Dec 03 02:07	0° ∡ ¹			3508 Nov 06 20:46	0° M	
morning set	3507 Dec 04 11:19	2° ҂ 14'54		morning set	3508 Nov 15 04:16	13°M57'51	
desc. node	3507 Dec 12 13:19	15° ∡ 16'50			3508 Nov 24 17:39	0°⊀	
superior conj	3507 Dec 19 14:05	26° ∡ ¹25'41		superior conj	3508 Nov 28 06:24	5° ∡ ¹45'46	0°01'08
minimum elong	3507 Dec 19 08:11	26° ₰ 02'27	0°45'51	minimum elong	3508 Nov 28 06:32	5° ≯ 46'18	0°01'08
max. Earth dist.	3507 Dec 21 15:43	29° ∡ 40′52	1.45206 AU	behind sun begin	3508 Nov 27 20:25	5° ₹ 05'18	
	3507 Dec 21 20:36	0°る		behind sun end	3508 Nov 28 16:39	6° ₹ 27'13	
evening rise	3508 Jan 04 20:19	21° る 52'45		desc. node	3508 Nov 28 10:20	6° ₹ 01'43	1 44600 444
	3508 Jan 10 01:05	0° ≈	0.7	max. Earth dist.	3508 Dec 03 10:12	14°⊀01'41	1.44609 AU
greatest brilliancy	3508 Jan 16 06:04	9°≈36'19	-0.7m		3508 Dec 13 15:42	0°る	
evening max el	3508 Jan 28 13:59	26°≈21'40	19°21'25	evening rise	3508 Dec 14 08:39	1°る05'14	
asc. node	3508 Feb 01 04:34	29° ≈ 20'54 0° 米			3509 Jan 02 18:28 3509 Jan 10 17:22	0° ≈ 9° ≈ 52'56	2001004
ratra ara da	3508 Feb 02 11:58 3508 Feb 04 16:54	0° ∺ 26'44		evening max el asc. node	3509 Jan 18 01:35	9 ≈32 36 14°≈29'45	20 19 04
retrograde	3508 Feb 04 16.34 3508 Feb 06 20:15	0 K2044 30°R≈		retrograde	3509 Jan 18 15:00	14 ≈29 43 14°≈31'28	
evening set	3508 Feb 08 20:13	30 k∞ 29°≈16'38		evening set	3509 Jan 22 10:26	14 ≈31 28 13°≈07'15	
inferior conj	3508 Feb 13 16:17	23°≈23'51	3°18'22	inferior conj	3509 Jan 27 19:49	7°≈01'19	2°50'51
minimum elong	3508 Feb 13 14:14	23°≈30'28	3°18'00	minimum elong	3509 Jan 27 17:20	7°≈09'46	2°50'13
min. Earth dist.	3508 Feb 14 23:35	21°≈42'24	0.66369 AU	min. Earth dist.	3509 Jan 28 13:28	6°≈01'27	0.67287 AU
morning rise	3508 Feb 19 00:15	17°≈10'28	0.00307110	morning rise	3509 Feb 02 00:01	0°≈47'33	0.07207110
direct	3508 Feb 25 06:48	14°≈23'43		morning rise	3509 Feb 02 02:54	30°R₹	
morning max el	3508 Mar 08 20:07	21°≈51'17	26°02'54	direct	3509 Feb 07 17:06	28° る 14'46	
desc. node	3508 Mar 09 12:33	22°≈33'22	20 025.		3509 Feb 13 01:04	0°≈	
	3508 Mar 15 23:02	0°) €		morning max el	3509 Feb 19 04:49	5°≈06'44	24°41'12
	3508 Apr 05 05:57	$0^{\circ}\Upsilon$		desc. node	3509 Feb 24 09:35	10°≈54'42	
morning set	3508 Apr 14 00:33	15° Y 28'13			3509 Mar 10 09:20	0°) €	
max. Earth dist.	3508 Apr 17 22:37	22° Y 53'32	1.35391 AU	morning set	3509 Mar 27 05:50	27°) 23′14	
	3508 Apr 21 13:13	8° 0		•	3509 Mar 28 17:07	$0^{\circ}\mathbf{\Upsilon}$	
				max. Earth dist.	3509 Mar 30 21:09	3° Y 55'23	1.37301 AU
superior conj	3508 Apr 23 04:00	3° 8 15'36	-0°59'03				
minimum elong	3508 Apr 23 07:07	3° 8 31'24	0°58'29	superior conj	3509 Apr 06 13:06	16° Ƴ 30′25	-1°26'24
asc. node	3508 Apr 29 03:52	15° 8 36'05		minimum elong	3509 Apr 06 17:26	16° Ƴ 51'32	1°25'47
evening rise	3508 May 01 00:10	19° 8 24'24			3509 Apr 13 08:23	9° 8	
	3508 May 06 08:08	$\Pi^{\circ}0$		evening rise	3509 Apr 15 02:05	3° 8 28'29	
evening max el	3508 May 19 06:45	19° Ⅱ 07'35	20°22'59	asc. node	3509 Apr 16 00:54	5° 8 21'57	
retrograde	3508 May 30 03:56	24° Ⅱ 25'54			3509 May 01 03:04	$\Pi^{\circ}0$	
evening set	3508 Jun 01 03:58	24° Ⅱ 15'53		evening max el	3509 May 01 22:45	0° ∏ 49'53	19°19'11
desc. node	3508 Jun 05 11:45	22° I 53'35		retrograde	3509 May 11 02:56	5° Ⅱ 17'16	
inferior conj	3508 Jun 10 07:55	20° Ⅱ 17'48		evening set	3509 May 13 03:27	5° Ⅱ 05'14	0020121
minimum elong	3508 Jun 10 03:53	20° Ⅱ 23'42		inferior conj	3509 May 21 14:44	0° Π 57'09	
min. Earth dist.	3508 Jun 11 18:22 3508 Jun 19 02:41	19° Ⅱ 27'30 16° Ⅱ 05'14	0.55036 AU	minimum elong desc. node	3509 May 21 16:00	0° I 55'03 29° ႘ 47'33	0°30'03
morning rise	3508 Jun 19 02:41 3508 Jun 22 23:12	16° Д 03°14 15° Д 33'08		desc. node	3509 May 23 08:46	29° 6 47′33 30° ₹	
direct morning max el	3508 Jul 06 10:24	22° I 05'54	23032135	min. Earth dist.	3509 May 23 01:13 3509 May 24 09:08	29° 8 08'01	0.56097 AU
morning max ci	3508 Jul 13 08:18	0°9	23 32 33	morning rise	3509 May 30 01:32	26° 8 10'44	0.30097 AU
asc. node	3508 Jul 26 03:05	21° 5 25'18		direct	3509 Jun 03 20:34	25° 8 18'03	
morning set	3508 Jul 30 03:14	29°938'05		uncet	3509 Jun 15 03:52	0°II	
	3508 Jul 30 07:23	0°Ω		morning max el	3509 Jun 18 00:33	2° II 30'26	25°13'22
					3509 Jul 07 08:09	0 - ದಾ	
superior conj	3508 Aug 06 03:48	14° Ω 44'15	1°33'11	asc. node	3509 Jul 13 00:08	11°509'02	
minimum elong	3508 Aug 06 01:49	14° £ 33'32		morning set	3509 Jul 14 14:55	14°932'04	
max. Earth dist.	3508 Aug 08 13:29		1.33451 AU	Č			
	3508 Aug 13 11:07	0° m)		superior conj	3509 Jul 21 13:47	29° © 37'39	1°19'15
evening rise	3508 Aug 13 16:51	0° m/28′39		minimum elong	3509 Jul 21 11:27	29° 5 24'50	1°18'55
	3508 Aug 30 10:29	0∘ ⊽			3509 Jul 21 17:53	$0^{\circ}\Omega$	
desc. node	3508 Sep 01 11:03	3° ഫ 02'10		max. Earth dist.	3509 Jul 22 19:33	2° Ω 20'11	1.32593 AU
evening max el	3508 Sep 16 16:46	21° ≏ 49'26	27°22'36	evening rise	3509 Jul 28 16:50	14° Ω 51′26	
retrograde	3508 Sep 30 05:43	29° ≏ 07'42			3509 Aug 05 11:55	0° m	
evening set	3508 Oct 07 07:47	26° ≏ 27'02		desc. node	3509 Aug 19 08:03	22°Mp06'30	

	3509 Aug 25 14:23	0∘ ত		evening max el	3510 Aug 12 05:48	16° m 52'44	26°49'10
evening max el	3509 Aug 30 01:51	4° ≏ 41'19	27°22'27	retrograde	3510 Aug 26 04:06	24° m) 04'07	
retrograde	3509 Sep 12 20:49	11° ≏ 57'00		evening set	3510 Sep 02 01:42	22° m 01'04	
evening set	3509 Sep 20 01:22	9° ჲ 28'40		min. Earth dist.	3510 Sep 05 19:54	19° m 23'21	0.60457 AU
min. Earth dist.	3509 Sep 23 15:52	6° £ 33'56	0.62458 AU	inferior conj	3510 Sep 09 01:23	16° Mp 43'20	-4°34'05
inferior conj	3509 Sep 26 13:27	3° ≏ 50'00	-3°45'11	minimum elong	3510 Sep 09 06:42	16°M 32′16	4°33'04
minimum elong	3509 Sep 26 19:10	3° ₽ 36'30	3°43'33	morning rise	3510 Sep 16 13:37	11° m 58'45	
	3509 Oct 01 03:20	30°R Mp		direct	3510 Sep 18 22:38	11° m 37'07	
morning rise	3509 Oct 03 14:35	28° m 44'11		asc. node	3510 Sep 25 20:21	14° m 48'48	
direct	3509 Oct 06 00:05	28° Mp 18'26		morning max el	3510 Sep 26 07:26	15° m 14'55	18°06'37
asc. node	3509 Oct 08 23:19	28° m 59'09			3510 Oct 06 12:20	0∘ ত	
	3509 Oct 10 16:58	0∘ ⊽		morning set	3510 Oct 12 02:49	10° £ 17'42	
morning max el	3509 Oct 12 18:50	1° ≏ 46'02	17°51'19				
morning set	3509 Oct 28 19:28	26° ≏ 44'38		superior conj	3510 Oct 21 20:18	28° ≏ 13'22	
	3509 Oct 30 15:14	0°M₊		minimum elong	3510 Oct 22 00:27	28° £ 31'55	1°13'07
					3510 Oct 22 20:14	0°M	
superior conj	3509 Nov 09 00:22			max. Earth dist.	3510 Oct 29 11:45	11°M28'48	1.41603 AU
minimum elong	3509 Nov 09 04:04	16°M37'18	0°42'16	desc. node	3510 Nov 02 04:22	17°M35'34	
desc. node	3509 Nov 15 07:20	26°M48'59		evening rise	3510 Nov 03 19:32	20°M14'18	
max. Earth dist.	3509 Nov 16 01:17	28°M01'56	1.43357 AU		3510 Nov 10 00:18	0° ∡	
	3509 Nov 17 06:30	0°⊀			3510 Dec 01 04:39	0° ろ	
evening rise	3509 Nov 23 19:04	10° √ 19'11		evening max el	3510 Dec 07 08:17	7°る00'41	22°46'33
	3509 Dec 06 20:03	0°る	21020154	retrograde	3510 Dec 17 07:50	12°る56'09	
evening max el	3509 Dec 24 15:16		21°28'54	evening set	3510 Dec 22 01:20	11°る00'21	
retrograde	3510 Jan 02 12:31	28°る42'08		asc. node	3510 Dec 22 19:36	10°る19'28	1020155
asc. node	3510 Jan 04 22:35	28°る10'11		inferior conj	3510 Dec 27 10:10	4°る37'57	
evening set	3510 Jan 06 18:05	27°る02'38	201.4122	minimum elong	3510 Dec 27 08:16	4°る44'33	1°30'14
inferior conj	3510 Jan 12 02:25	20°පි46'41 20°පි55'06	2°14'32	min. Earth dist.	3510 Dec 27 04:22	4°る58'01	0.67968 AU
minimum elong	3510 Jan 11 24:00	20°る3306 20°る27'54	2°13'45 0.67813 AU		3510 Dec 31 01:04	30°₹ ⋌ 7	
min. Earth dist.	3510 Jan 12 07:51 3510 Jan 17 05:43	14° る 34'19	0.6/813 AU	morning rise direct	3511 Jan 01 15:04 3511 Jan 06 02:48	28° ₹28'49 26° ₹39'05	
morning rise direct	3510 Jan 17 03.45 3510 Jan 22 08:06	14 334 19 12° る 21'44		direct	3511 Jan 00 02.48 3511 Jan 13 01:35	20 メ ・3903	
morning max el	3510 Jan 22 08:00 3510 Feb 01 13:47	12 3 21 44	23°12'24	morning max el	3511 Jan 15 01:33	0 る 1°る54'49	21°46'00
desc. node	3510 Feb 11 06:35	0°≈02'06	23 12 24	desc. node	3511 Jan 29 03:37	19° 石 43'01	21 40 00
desc. node	3510 Feb 11 05:57	0 ≈02 00 0°≈		desc. flode	3511 Jan 29 03:37 3511 Feb 05 04:32	0°≈	
	3510 Mar 03 12:31	0° ℋ		morning set	3511 Feb 16 09:58	17° ≈ 21'09	
morning set	3510 Mar 08 10:20	8° ₩ 03'31		max. Earth dist.	3511 Feb 22 14:57	27°≈27'55	1.41585 AU
max. Earth dist.	3510 Mar 12 15:51	15° ¥ 16′06	1.39456 AU	man. Darm dist.	3511 Feb 24 03:22	0°) €	1.11000 110
man. Darvir alov.	30101111111212101	10 7(10 00	1.53 .50 110		3011100 2. 03.22	٠,٨	
superior conj	3510 Mar 20 07:37	28° ¥ 59'39	-1°49'28	superior conj	3511 Mar 02 06:45	10°) 32′12	-2°04'15
minimum elong	3510 Mar 20 12:08	29°) €20'32		minimum elong	3511 Mar 02 09:18	10°) 43′21	
	3510 Mar 20 20:38	$0^{\circ}\mathbf{\Upsilon}$		evening rise	3511 Mar 13 00:56	29°) 58′52	
evening rise	3510 Mar 29 19:29	17° Y 02'32		-	3511 Mar 13 01:11	$0^{\circ}\Upsilon$	
asc. node	3510 Apr 02 21:55	24° Y 50'18		asc. node	3511 Mar 20 18:56	13° Y 55'20	
	3510 Apr 05 18:09	0°8		evening max el	3511 Mar 29 09:32	25° Y 58'27	18°11'50
evening max el	3510 Apr 15 00:48	13° 8 09'40	18°35'31	retrograde	3511 Apr 05 07:11	29° Y 26'53	
retrograde	3510 Apr 22 19:44	16° 8 59'09		evening set	3511 Apr 07 20:17	28° Y 59'14	
evening set	3510 Apr 25 02:24	16° 8 40'39		inferior conj	3511 Apr 14 17:57	24° Y 11'35	3°00'41
inferior conj	3510 May 02 17:48	12° 8 14'03	2°01'53	minimum elong	3511 Apr 14 21:10	24° Y 04'19	3°00'03
minimum elong	3510 May 02 21:28	12° 8 06'58	2°00'49	min. Earth dist.	3511 Apr 18 02:36	21° Y 11'35	0.59993 AU
min. Earth dist.	3510 May 06 03:08	9° 8 38'29	0.57866 AU	morning rise	3511 Apr 21 19:42	18° Y 26′39	
desc. node	3510 May 10 05:48	7° 8 03'22		desc. node	3511 Apr 27 02:50	16° Ƴ 30'59	
morning rise	3510 May 10 13:22	6° 8 54'08		direct	3511 Apr 28 08:13	16° Y 26'49	
direct	3510 May 16 08:13	5° 8 29'43		morning max el	3511 May 12 15:53	24° Y 17'48	27°33'07
morning max el	3510 May 30 17:12	13° 8 06'53	26°38'02		3511 May 17 20:08	0°B	
	3510 Jun 13 00:47	0° I			3511 Jun 06 06:37	0°II	
morning set	3510 Jun 29 01:18	29° Ⅱ 20'41		morning set	3511 Jun 13 08:40	13° Ⅱ 58′26	
,	3510 Jun 29 08:45	0°99		asc. node	3511 Jun 16 18:13	21° I I10'38	1 22000 171
asc. node	3510 Jun 29 21:10	1° © 05'47		max. Earth dist.	3511 Jun 19 18:08	27° Ⅱ 42'40	1.32090 AU
superior conj	3510 Jul 06 01:25	14°933'37	1°00'57	superior conj	3511 Jun 20 12:58	29° Ⅲ 26′14	
minimum elong	3510 Jul 05 23:12	14°5521'24	1°00'32	minimum elong	3511 Jun 20 11:20	29° Ⅱ 17'15	0°38'32
max. Earth dist.	3510 Jul 06 06:20	15°900'42	1.32142 AU		3511 Jun 20 19:06	0°95	
evening rise	3510 Jul 12 22:56	29° © 30'52		evening rise	3511 Jun 27 08:51	14°9519'14	
	3510 Jul 13 04:30	$\Omega^{\circ}\Omega$, ,	3511 Jul 05 05:22	0° Ω	
4 1	3510 Jul 29 16:59	0°Mp		desc. node	3511 Jul 24 02:07	27° Ω 16'14	25044101
desc. node	3510 Aug 06 05:05	10° Mp 18'25		evening max el	3511 Jul 25 02:25	28° Ω 15'50	25~44'01

	3511 Jul 27 00:43	0° m			3512 Jun 11 06:00	0ංම	
retrograde	3511 Aug 08 01:53	5° m 23'05			3512 Jun 28 02:00	$0^{\circ}\Omega$	
evening set	3511 Aug 14 03:58	3° m 55'37		evening max el	3512 Jul 05 16:42	8° Ω 57'39	24°15'44
min. Earth dist.	3511 Aug 18 14:34	1° m)17'57	0.58399 AU	desc. node	3512 Jul 09 23:08	12° Ω 30′57	
	3511 Aug 20 10:30	30° R Ω		retrograde	3512 Jul 19 12:39	15° Ω 56'17	
inferior conj	3511 Aug 21 19:34	29° Ω 00'07	-5°04'08	evening set	3512 Jul 24 06:24	15° Ω 06′16	
minimum elong	3511 Aug 21 21:53	28° Ω 55'56	5°03'59	min. Earth dist.	3512 Jul 30 03:24	12° Ω 10′28	0.56559 AU
morning rise	3511 Aug 29 18:03	24° Ω 38'42		inferior conj	3512 Aug 01 17:41	10° Ω 32'59	-5°01'08
direct	3511 Sep 01 05:45	24° Ω 18'57		minimum elong	3512 Aug 01 14:24	10° Ω 38′09	5°00'52
morning max el	3511 Sep 09 13:22	28° Ω 16'41	18°42'21	morning rise	3512 Aug 10 01:04	6° Ω 32'12	
	3511 Sep 11 05:09	0° m ∕		direct	3512 Aug 12 17:41	6° Ω 12'57	
asc. node	3511 Sep 12 17:24	1° m 48'56		morning max el	3512 Aug 22 09:41	10° Ω 42'46	19°39'34
morning set	3511 Sep 25 21:26	24° m 22'48		asc. node	3512 Aug 29 14:29	19° Ω 44'59	
	3511 Sep 28 18:33	0∘ ⊽			3512 Sep 04 11:48	o° m p	
				morning set	3512 Sep 08 23:49	8° m 50'31	
superior conj	3511 Oct 04 13:16	11° ≙ 06'49	1°33'12				
minimum elong	3511 Oct 04 16:09	11° ≏ 20′25	1°32'58	superior conj	3512 Sep 16 21:53	24° m 47'03	1°42'53
max. Earth dist.	3511 Oct 11 17:38	24° ₽ 12'56	1.39565 AU	minimum elong	3512 Sep 16 23:02	24° m 52'43	1°42'51
	3511 Oct 15 01:47	0° M			3512 Sep 19 13:58	0° ٽ	
evening rise	3511 Oct 15 18:24	1°M10'36		max. Earth dist.	3512 Sep 22 22:05	6° £ 19'40	1.37503 AU
desc. node	3511 Oct 20 01:24	8° ™ 17'18		evening rise	3512 Sep 26 16:20	13° ≏ 10'56	
	3511 Nov 03 08:31	0° ∡ ¹		desc. node	3512 Oct 05 22:26	28° ≏ 50'13	
evening max el	3511 Nov 19 21:54	20° ∡ ³38'43	24°06'26		3512 Oct 06 15:55	0° M	
retrograde	3511 Nov 30 23:46	27° ∡ ¹09'06			3512 Oct 28 08:14	0° ⊼	
evening set	3511 Dec 06 06:35	24° ∡ ¹56'57		evening max el	3512 Nov 01 10:07	4° ҂ 19'35	25°21'45
asc. node	3511 Dec 09 16:38	21° х 13'40		retrograde	3512 Nov 13 11:27	11° √ 16'34	
min. Earth dist.	3511 Dec 11 00:41	19° х 28′00	0.67767 AU	evening set	3512 Nov 19 08:11	8° ₹ 149'40	
inferior conj	3511 Dec 11 17:16	18° √ 31'58	0°41'13	min. Earth dist.	3512 Nov 23 18:30	3° ₹ 155'12	0.67221 AU
minimum elong	3511 Dec 11 16:17	18° √ 35'15	0°40'49	inferior conj	3512 Nov 24 21:56	2° ₹ 26'28	
morning rise	3511 Dec 17 02:02	12° ₹ ′28'04	0 .0 .,	minimum elong	3512 Nov 24 22:16	2° ×1 25'21	0°13'23
direct	3511 Dec 21 00:04	11°×700'50		transit middle	3512 Nov 24 22:16	2° × ¹ 25'21	0°13'23
morning max el	3511 Dec 28 22:42	15° ∡ °34'03	20°28'51	transit begin	3512 Nov 24 20:42	2° × ⁷ 30'26	0 13 23
morning max cr	3512 Jan 09 07:51	0° る	20 2031	transit end	3512 Nov 24 23:51	2° × ⁷ 20'16	
desc. node	3512 Jan 16 00:39	。。 9° ろ 47'43		asc. node	3512 Nov 25 13:42	1°×735'42	
morning set	3512 Jan 26 10:24	25° る 37'56		ase. node	3512 Nov 26 20:33	30°RM	
morning sec	3512 Jan 29 05:41	0°≈		morning rise	3512 Nov 30 12:39	26°M29'57	
max. Earth dist.	3512 Feb 04 21:49		1.43387 AU	direct	3512 Dec 03 22:35	25°M22'44	
max. Earth dist.	3312100 04 21.4)	10 70 33 40	1.43307 110	morning max el	3512 Dec	29°M24'09	19°25'06
superior conj	3512 Feb 11 05:35	20° ≈ 56'47	-2°05'37	morning max er	3512 Dec 11 16:37	0° √ 7	17 25 00
minimum elong	3512 Feb 11 03:16	20°≈47'11		greatest brilliancy	3512 Dec 24 10:14	17° × 12'21	-0.7m
minimum ciong	3512 Feb 16 14:21	0° ∀	2 03 33	desc. node	3513 Jan 01 21:41	0°る09'32	0.7111
evening rise	3512 Feb 23 14:14	12°) €08'36		dese. Hode	3513 Jan 01 19:13	0°る	
evening rise	3512 Mar 05 00:59	0° Υ		morning set	3513 Jan 04 08:50	3° ठ 58'09	
asc. node	3512 Mar 06 15:58	2° Υ 29'28		max. Earth dist.	3513 Jan 17 11:17	24° පි 26'12	1.44640 AU
evening max el	3512 Mar 11 21:38	9° Υ 07'14	18°07'42	max. Lartii dist.	3513 Jan 20 23:21	0°≈	1.44040710
retrograde	3512 Mar 18 09:23	12° Υ 30'11	10 07 12		3313 Juli 20 23.21	0 / 0 .	
evening set	3512 Mar 21 04:13	11° Υ 51'57		superior conj	3513 Jan 21 02:39	0°≈13'11	-1°48'43
inferior conj	3512 Mar 27 12:03	6° Υ 43'58	3°30'40	minimum elong	3513 Jan 20 18:45	29° ප් 41'39	
minimum elong	3512 Mar 27 13:35	6° Υ 40'01	3°30'31	evening rise	3513 Feb 04 07:03	23°≈23'39	1 10 07
min. Earth dist.	3512 Mar 30 10:17	3° Υ 44'09	0.62139 AU	evening rise	3513 Feb 08 05:57	0° ∀	
morning rise	3512 Apr 02 21:31	0° Υ 43'36	0.02137710	asc. node	3513 Feb 21 13:01	20° ¥ 22'59	
morning rise	3512 Apr 03 23:32	30° ₽ ₩		evening max el	3513 Feb 23 10:11	22° H 28'26	18°22'28
direct	3512 Apr 09 18:21	28°) 13'55		retrograde	3513 Mar 01 21:35	25° H 59'01	10 22 20
desc. node	3512 Apr 12 23:52	28°) 44'00		evening set	3513 Mar 04 22:06	25° \ 09'15	
desc. node	3512 Apr 12 23:32 3512 Apr 15 23:29	20 γ (44 00		inferior conj	3513 Mar 10 19:55	19° X 42'32	3°38'22
morning max el	3512 Apr 23 20:51	6° Υ 11'44	27°51'25	minimum elong	3513 Mar 10 19:42		3°38'21
morning max cr	3512 May 11 20:46	0°8	27 31 23	min. Earth dist.	3513 Mar 13 03:26	17° X 03'33	0.64071 AU
morning set	3512 May 27 11:03	28° 8 19'04		morning rise	3513 Mar 16 16:32	13° ¥ 33'57	0.04071710
morning soc	3512 May 27 11:03 3512 May 28 06:48	0° Ⅱ		direct	3513 Mar 23 12:56	10° X 46'32	
max. Earth dist.	3512 Jun 02 03:01		1.32438 AU	desc. node	3513 Mar 30 20:54	13° X 4032	
asc. node	3512 Jun 02 05:01 3512 Jun 02 15:17	10 Ⅱ 1303	1.52 150 110	morning max el	3513 Mai 30 20:34 3513 Apr 06 05:42	18°) 42'42	27°32'47
use. Houe	5512 Juli 02 15.1/	11 11 17 1/		morning max ci	3513 Apr 15 18:42	18 γ (4242	21 34 71
superior conj	3512 Jun 03 22:43	14° Ⅱ 09'56	0°13'44		3513 May 04 18:51	0°8	
minimum elong	3512 Jun 03 22:04	14° I 109'30' 14° I 106'27		morning set	3513 May 11 05:50	12° 8 13'28	
behind sun begin	3512 Jun 03 19:23	14 H 0027 13° H 51'48	0 10 00	max. Earth dist.	3513 May 16 04:40		1.33220 AU
behind sun end	3512 Jun 04 00:46	13 Ⅲ 31 48 14° Ⅲ 21'05		max. Durin dist.	5515 111uy 10 07.70	22 (1/1)	1.55220 AU
evening rise	3512 Jun 10 20:33	29° Ⅱ 09'54		superior conj	3513 May 19 04:44	28° 8 37'48	-0°13'45
C voming 1130	JJ 12 Juli 10 20.JJ	27 HU934		superior conj	5515 141ay 17 04.44	20 03/40	0 10 70

minimum elong behind sun begin	3513 May 19 05:26 3513 May 19 02:35	28° 8 41'29 28° 8 26'18	0°13'36	max. Earth dist.	3514 Apr 28 19:46	3° 8 48'58	1.34467 AU
behind sun end	3513 May 19 02:35 3513 May 19 08:16	28° 8 56'41		superior conj	3514 May 03 04:53	12° 8 43'45	-0°42'29
bennia sun ena	3513 May 19 00:10 3513 May 19 20:07	0°Ⅱ		minimum elong	3514 May 03 07:07	12° 8 55'18	0°42'02
asc. node	3513 May 20 12:19	1° Ⅱ 26'47		asc. node	3514 May 07 09:22	21° 8 29'26	0 12 02
evening rise	3513 May 26 08:07	13° I I55'23		evening rise	3514 May 10 17:40	28° 8 30'08	
e vennig rise	3513 Jun 03 11:10	0.2 2023		evening rise	3514 May 11 11:01	0°II	
evening max el	3513 Jun 17 06:33	19° © 22'45	22°38'58	evening max el	3514 May 30 03:56	0°904'17	21°08'20
desc. node	3513 Jun 26 20:10	25°\$26'18			3514 May 30 02:11	0°©	
retrograde	3513 Jun 30 11:08	25°\$56'26		retrograde	3514 Jun 11 00:21	5° © 52'32	
evening set	3513 Jul 03 16:44	25°533'26		evening set	3514 Jun 13 06:02	5°9340'54	
min. Earth dist.	3513 Jul 11 14:27	22° © 05'38	0.55276 AU	desc. node	3514 Jun 13 17:10	5°935'41	
inferior conj	3513 Jul 12 21:15	21° © 21'39		inferior conj	3514 Jun 22 14:56	1°9542'48	-2°33'55
minimum elong	3513 Jul 12 13:16	21°533'04	4°09'15	minimum elong	3514 Jun 22 07:58	1°952'36	
morning rise	3513 Jul 21 12:00	17° © 30'38		min. Earth dist.	3514 Jun 23 02:00		0.54851 AU
direct	3513 Jul 24 11:29	17° © 10'12			3514 Jun 25 17:43	30°R Ⅱ	
morning max el	3513 Aug 04 18:21	22° 5 24'47	20°57'51	morning rise	3514 Jul 01 10:05	27° Ⅱ 43'35	
C	3513 Aug 11 05:16	$0^{\circ}\Omega$		direct	3514 Jul 04 21:07	27° Ⅱ 17'43	
asc. node	3513 Aug 16 11:33	8° Ω 23'14			3514 Jul 13 08:28	0ಂತಾ	
morning set	3513 Aug 24 07:16	23° Ω 32'54		morning max el	3514 Jul 17 15:59	3°523'04	22°33'16
	3513 Aug 27 09:41	0° m)		asc. node	3514 Aug 03 08:35	27°533'21	
					3514 Aug 04 14:49	$0^{\circ}\Omega$	
superior conj	3513 Aug 31 17:33	8° m 59'55	1°44'19	morning set	3514 Aug 08 17:45	8° Ω 24'09	
minimum elong	3513 Aug 31 17:08	8° m 57'46	1°44'19	8			
max. Earth dist.	3513 Sep 05 06:43	18° m) 10'17	1.35647 AU	superior conj	3514 Aug 15 20:49	23° Ω 35'03	1°38'56
evening rise	3513 Sep 09 09:40	26° m 06'06		minimum elong	3514 Aug 15 19:15	23° Ω 26'46	1°38'49
<i>y</i> 21	3513 Sep 11 12:15	0∘ <u>⊽</u>			3514 Aug 18 22:08	0° m)	
desc. node	3513 Sep 22 19:29	19° Ω 08'53		max. Earth dist.	3514 Aug 19 00:01	0° m) 09'46	1.34143 AU
	3513 Sep 30 02:18	0°M₊		evening rise	3514 Aug 23 17:57	9° m)44'15	
evening max el	3513 Oct 14 22:27	18°M00'03	26°25'10	Ü	3514 Sep 03 22:49	0° <u>ټ</u>	
retrograde	3513 Oct 27 18:10	25°M12'35		desc. node	3514 Sep 09 16:30	9° ഫ 06'32	
evening set	3513 Nov 03 04:15	22°M34'54			3514 Sep 25 21:44	0° M	
min. Earth dist.	3513 Nov 07 07:31	18°M15'57	0.66328 AU	evening max el	3514 Sep 27 10:59	1°M32'05	27°09'02
inferior conj	3513 Nov 08 22:16	16°M18'16	-1°12'03	retrograde	3514 Oct 10 19:06	8°M49'42	
minimum elong	3513 Nov 09 00:14	16°M12'19		evening set	3514 Oct 17 16:26	6° M ₊07'49	
asc. node	3513 Nov 12 10:45	12°M22'33		min. Earth dist.	3514 Oct 21 13:18	2°M24'33	0.65091 AU
morning rise	3513 Nov 14 20:48	10°M31'44		inferior conj	3514 Oct 23 16:05	0°ML02'42	
direct	3513 Nov 17 20:46	9° ™ 40'53		minimum elong	3514 Oct 23 19:47	29° ₽ 52'23	2°11'12
morning max el	3513 Nov 24 13:17	13°M21'12	18°36'54		3514 Oct 23 17:03	30°R <u>Ω</u>	
C	3513 Dec 06 16:23	0° ∡ ¹		morning rise	3514 Oct 30 00:04	24° ≙ 29'12	
morning set	3513 Dec 15 04:37	13° ∡ ¹27'17		asc. node	3514 Oct 30 07:48	24° ≏ 20'37	
desc. node	3513 Dec 19 18:43	20° ∡ ¹43'35		direct	3514 Nov 01 16:25	23° ≏ 50'49	
	3513 Dec 25 15:53	5°0		morning max el	3514 Nov 08 04:15	27° ≏ 19'25	18°05'21
				Ü	3514 Nov 10 13:20	0°M₊	
superior conj	3513 Dec 31 06:30	8° る 48'28	-1°13'01	morning set	3514 Nov 26 05:56	24°M24'51	
minimum elong	3513 Dec 30 21:58	8° ප 14'56	1°12'02		3514 Nov 29 15:10	0° ∡ ¹	
max. Earth dist.	3513 Dec 31 04:55	8° ප 42'13	1.45207 AU	desc. node	3514 Dec 06 15:44	11° ∡ °25′26	
	3514 Jan 13 17:01	0° ≈					
evening rise	3514 Jan 16 00:36	3° ≈ 41'18		superior conj	3514 Dec 10 12:27	17° ∡ ³35'57	-0°26'10
greatest brilliancy	3514 Jan 24 10:55	17° ≈ 07'13	-0.8m	minimum elong	3514 Dec 10 09:10	17° ∡ °22'55	0°25'41
	3514 Feb 01 23:56	0°) €		max. Earth dist.	3514 Dec 14 00:13	23° ∡ °07′19	1.45037 AU
evening max el	3514 Feb 06 20:42	5°) € 56'43	18°55'11		3514 Dec 18 09:29	ರ°0	
asc. node	3514 Feb 08 10:03	7°) €24'07		evening rise	3514 Dec 26 20:57	13° る 10'18	
retrograde	3514 Feb 13 15:54	9°){ 46′16			3515 Jan 06 19:53	0° ≈	
evening set	3514 Feb 16 22:46	8°){ 43'57		greatest brilliancy	3515 Jan 09 04:24	3° ≈ 32'37	-0.7m
inferior conj	3514 Feb 22 13:48	3°) €00'18	3°29'25	evening max el	3515 Jan 21 03:10	19° ≈ 27'32	19°44'20
minimum elong	3514 Feb 22 12:16	3°) €05'06	3°29'14	asc. node	3515 Jan 26 07:05	23° ≈ 18′03	
min. Earth dist.	3514 Feb 24 05:46	0°) 55'37	0.65648 AU	retrograde	3515 Jan 28 13:12	23° ≈ 45'34	
	3514 Feb 25 00:10	30° R ≈		evening set	3515 Feb 01 03:42	22° ≈ 29'35	
morning rise	3514 Feb 28 01:22	26° ≈ 48′00		inferior conj	3515 Feb 06 14:31	16° ≈ 31′08	3°07'50
direct	3514 Mar 06 14:29	23° ≈ 57′05		minimum elong	3515 Feb 06 12:13	16° ≈ 38'44	3°07'23
desc. node	3514 Mar 17 17:55	29° ≈ 49'04		min. Earth dist.	3515 Feb 07 15:52	15° ≈ 07'12	0.66811 AU
	3514 Mar 17 22:39	0°) €		morning rise	3515 Feb 11 20:32	10° ≈ 17'34	
morning max el	3514 Mar 19 15:34	1°) 39′11	26°42'40	direct	3515 Feb 17 21:44	7° ≈ 35'37	
	3514 Apr 09 21:28	0° Y		morning max el	3515 Mar 02 00:36	14° ≈ 49′11	25°29'39
morning set	3514 Apr 24 13:43	25° Y ′32'02		desc. node	3515 Mar 04 14:56	17° ≈ 35'15	
	3514 Apr 26 21:21	9° 8			3515 Mar 14 11:03	0° ∀	

	3515 Apr 02 17:37	0°Υ		morning set	3516 Mar 19 01:40	19°) € 25'47	
morning set	3515 Apr 07 06:14	8° Υ 01'16		max. Earth dist.	3516 Mar 22 19:49		1.38205 AU
max. Earth dist.	3515 Apr 10 23:31	14° Υ 54'48	1.36164 AU	max. Dartii dist.	3516 Mar 25 00:37	0°Υ	1.50205 110
man zarur uisv.	501011pr 10 25.51	1. 10.10	1.50101110		301011111 20 00.57	• •	
superior conj	3515 Apr 16 20:25	26° Ƴ 19'37	-1°10'58	superior conj	3516 Mar 29 23:50	9° Y 16'05	-1°36'55
minimum elong	3515 Apr 17 00:08	26° Ƴ 38′07		minimum elong	3516 Mar 30 04:26	9° Y '38'02	
C	3515 Apr 18 16:20	0°8		evening rise	3516 Apr 07 21:43	26° Y 39'32	
asc. node	3515 Apr 24 06:24	11° 8 22'40		•	3516 Apr 09 14:42	0°8	
evening rise	3515 Apr 24 23:02	12° 8 47'14		asc. node	3516 Apr 10 03:25	1° 8 01'43	
	3515 May 04 01:27	$\Pi^{\circ}0$		evening max el	3516 Apr 24 09:37	23° 8 21'08	18°58'06
evening max el	3515 May 12 13:04	11° Ⅱ 22'33	19°53'25	retrograde	3516 May 02 22:21	27° 8 30'47	
retrograde	3515 May 22 16:00	16° Ⅱ 17'43		evening set	3516 May 05 01:13	27° 8 16'23	
evening set	3515 May 24 15:17	16° Ⅱ 07'22		inferior conj	3516 May 13 03:57	23° 8 00'36	1°13'09
desc. node	3515 May 31 14:09	13° Ⅱ 16'43		minimum elong	3516 May 13 06:40	22° 8 55'49	1°12'15
inferior conj	3515 Jun 02 13:03	12° Ⅱ 06'34	-0°34'36	min. Earth dist.	3516 May 16 06:38	20° 8 49'52	0.56779 AU
minimum elong	3515 Jun 02 11:28	12° Ⅱ 08'59	0°34'00	desc. node	3516 May 17 11:11	20° 8 03'10	
min. Earth dist.	3515 Jun 04 14:58	10° Ⅱ 50′37	0.55390 AU	morning rise	3516 May 21 08:57	17° 8 59'22	
morning rise	3515 Jun 11 05:36	7° Ⅱ 40'54		direct	3516 May 26 14:14	16° 8 54'36	
direct	3515 Jun 15 11:21	7° Ⅱ 01′26		morning max el	3516 Jun 09 21:34	24° 8 18'36	25°52'24
morning max el	3515 Jun 29 06:55	13° ∏ 52′06	24°16'22		3516 Jun 15 02:27	Π °0	
	3515 Jul 11 20:17	0 \circ \odot			3516 Jul 03 16:59	0 \circ \odot	
asc. node	3515 Jul 21 05:38	17° 5 07'08		asc. node	3516 Jul 07 02:40	6° 9 57'20	
morning set	3515 Jul 24 05:30	23° © 19'12		morning set	3516 Jul 07 16:52	8° © 12'05	
	3515 Jul 27 08:16	$0^{\circ}\Omega$					
				superior conj	3516 Jul 14 15:53	23° © 19'39	1°12'00
superior conj	3515 Jul 31 04:59	8° Ω 24'11	1°27'52	minimum elong	3516 Jul 14 13:32	23° © 06'45	1°11'37
minimum elong	3515 Jul 31 02:47	8° Ω 12'14		max. Earth dist.	3516 Jul 15 11:02	25° © 04'45	1.32353 AU
max. Earth dist.	3515 Aug 02 02:20	12° Ω 29'12	1.33042 AU		3516 Jul 17 17:08	0 ° Ω	
evening rise	3515 Aug 07 13:12	23° Ω 54'04		evening rise	3516 Jul 21 16:06	8° Ω 25'04	
	3515 Aug 10 14:58	0° т р			3516 Aug 02 00:31	0° m)	
desc. node	3515 Aug 27 13:31	28° m 34'15		desc. node	3516 Aug 13 10:32	17° m) 18'49	
	3515 Aug 28 13:41	0∘ ⊽		evening max el	3516 Aug 22 05:15	27° m 19'15	27°12'18
evening max el	3515 Sep 09 22:08	14° £ 43'25	27°26'28		3516 Aug 25 07:23	0∘ ⊽	
retrograde	3515 Sep 23 13:44	21° Ω 59'57		retrograde	3516 Sep 05 01:29	4° Ω 32'57	
evening set	3515 Sep 30 17:53	19° £ 23'15	0.60510.477	evening set	3516 Sep 12 04:43	2° ₽ 13'31	
min. Earth dist.	3515 Oct 04 09:46	16° £ 12'57	0.63513 AU	: E 4 E 4	3516 Sep 15 04:30	30°₹ ™	0.61624.411
inferior conj	3515 Oct 07 00:49	13° £ 34'10		min. Earth dist.	3516 Sep 15 19:33	29° Mp 28'10	0.61634 AU
minimum elong	3515 Oct 07 06:01	13° £ 21'02	3*10'50	inferior conj	3516 Sep 18 21:19	26° Mp 43'45	
morning rise direct	3515 Oct 13 19:30 3515 Oct 16 06:49	8° ≙ 17'13 7° ≙ 47'41		minimum elong	3516 Sep 19 03:07 3516 Sep 26 03:16	26° Mp 30'46 21° Mp 46'52	4-0601
asc. node	3515 Oct 10 00:49 3515 Oct 17 04:49	7° £ 4741 7° £ 51'50		morning rise direct	3516 Sep 28 12:16	21° m/ 23'08	
morning max el	3515 Oct 17 04.49 3515 Oct 22 20:48	7 = 31 30 11° £ 12'59	17051114	asc. node	3516 Sep 28 12.16 3516 Oct 03 01:51	21 m/23 08 22° m/54'14	
morning max er	3515 Oct 22 20.48 3515 Nov 04 13:23	0°M.	1/ 31 14	morning max el	3516 Oct 05 01:51 3516 Oct 05 11:50	24° M) 53'33	17055127
morning set	3515 Nov 04 13.25 3515 Nov 08 09:15	6°ML38'15		morning max ci	3516 Oct 09 16:59	0° ⊽	17 33 27
morning set	33131101 00 07.13	0 1103013		morning set	3516 Oct 21 08:00	0 — 19° ≏ 46'45	
superior conj	3515 Nov 20 15:03	27°M26'46	0°19'58	morning sec	3516 Oct 26 23:22	0°M	
minimum elong	3515 Nov 20 17:08	27°M35'21	0°19'40		3310 000 20 23.22	O IIV	
8	3515 Nov 22 04:22	0° ∡ 7		superior conj	3516 Oct 31 20:33	8°M36'38	0°57'16
desc. node	3515 Nov 23 12:47	2° ≯ 12'04		minimum elong	3516 Nov 01 00:45	8°M54'50	0°56'42
max. Earth dist.	3515 Nov 26 18:11	7° ∡ ¹23'54	1.44155 AU	max. Earth dist.	3516 Nov 08 07:36		1.42662 AU
evening rise	3515 Dec 06 06:31	22° х 19′00		desc. node	3516 Nov 09 09:49	22°M59'37	
C	3515 Dec 11 07:12	0° ට			3516 Nov 13 18:23	0° ∡ ¹	
	3516 Jan 01 11:37	0°≈		evening rise	3516 Nov 14 21:16	1° ∡ ¹46'15	
evening max el	3516 Jan 04 04:16	2° ≈ 59'21	20°47'29	•	3516 Dec 03 19:37	5°0	
retrograde	3516 Jan 12 11:14	7°≈53'20		evening max el	3516 Dec 16 23:50	16° る 32'20	22°01'13
asc. node	3516 Jan 13 04:05	7° ≈ 50'37		retrograde	3516 Dec 26 08:06	22° පි 06'03	
evening set	3516 Jan 16 10:52	6° ≈ 22'31		asc. node	3516 Dec 30 01:06	20° る 52'03	
inferior conj	3516 Jan 21 19:36	0°≈11'54	2°36'23	evening set	3516 Dec 30 18:34	20° る 19'30	
minimum elong	3516 Jan 21 17:04	0° ≈ 20'32	2°35'40	inferior conj	3517 Jan 05 02:56	14° ට 00'06	1°56'52
-	3516 Jan 21 23:03	30°Rる		minimum elong	3517 Jan 05 00:40	14° る 07'57	1°56'04
min. Earth dist.	3516 Jan 22 07:49	29° る 29'59	0.67562 AU	min. Earth dist.	3517 Jan 05 03:24	13° る 58'27	0.67921 AU
morning rise	3516 Jan 26 23:06	23° る 58'46		morning rise	3517 Jan 10 06:37	7° る 48'53	
direct	3516 Feb 01 10:01	21° ප 34'14		direct	3517 Jan 15 02:34	5°₹46'12	
morning max el	3516 Feb 12 09:06	28° る 06'26	24°03'44	morning max el	3517 Jan 24 19:29	11° る 30'09	22°34'56
	3516 Feb 14 04:19	0° ≈		desc. node	3517 Feb 05 09:01	25° る 40'49	
desc. node	3516 Feb 19 11:58	6° ≈ 17'46			3517 Feb 08 11:15	0° ≈	
	3516 Mar 07 04:25	0° ∀		morning set	3517 Feb 27 18:10	29° ≈ 31'23	

	3517 Feb 28 01:09	0°) €			3518 Feb 01 22:03	0° ≈	
max. Earth dist.	3517 Feb 28 01:09 3517 Mar 04 15:49	7°) (42′27	1.40376 AU	morning set	3518 Feb 07 06:15	0 ∞ 8°≈17'29	
max. Earth dist.	3317 Wai 04 13.49	/ 1422/	1.40370 AU	max. Earth dist.	3518 Feb 14 17:30	3 ≈1729 20°≈16'17	1.42399 AU
superior conj	3517 Mar 12 10:45	21° ¥ 22'33	-1°57'03	max. Lartii dist.	3518 Feb 20 13:35	0° ∀	1. 4 2377 AU
minimum elong	3517 Mar 12 14:46	21°) (40'42			3310100 20 13.33	0 /(
minimum ciong	3517 Mar 17 03:21	0°Υ	1 30 17	superior conj	3518 Feb 22 00:01	2° ¥ 26'48	-2°06'49
evening rise	3517 Mar 22 10:34	9° Υ 59'00		minimum elong	3518 Feb 22 00:50	2°\(\frac{1}{30}\)'18	
asc. node	3517 Mar 28 00:27	20° Υ 21'15		evening rise	3518 Mar 05 09:41	22° H 36'08	2 00 .0
	3517 Apr 02 20:09	0°8			3518 Mar 09 12:22	0°Υ	
evening max el	3517 Apr 07 14:54	5° 8 54'23	18°23'03	asc. node	3518 Mar 14 21:29	9° Υ 14'02	
retrograde	3517 Apr 14 23:35	9° 8 33'20		evening max el	3518 Mar 22 01:28	18° Y 52'33	18°07'48
evening set	3517 Apr 17 08:52	9° 8 11'20		retrograde	3518 Mar 28 17:40	22° Y 16'47	
inferior conj	3517 Apr 24 16:19	4° 8 35'54	2°30'42	evening set	3518 Mar 31 09:14	21° Y '44'52	
minimum elong	3517 Apr 24 20:02	4° 8 28'11	2°29'46	inferior conj	3518 Apr 07 00:33	16° Ƴ 48'48	3°16'32
min. Earth dist.	3517 Apr 28 02:57	1° 8 46'43	0.58736 AU	minimum elong	3518 Apr 07 03:07	16° Ƴ 42'39	3°16'08
	3517 Apr 30 14:13	30° ₹Ƴ		min. Earth dist.	3518 Apr 10 05:48	13° Y 45'38	0.60916 AU
morning rise	3517 May 02 04:16	29° Ƴ 03'42		morning rise	3518 Apr 13 19:01	10° Ƴ 56'12	
desc. node	3517 May 04 08:12	28° Y 06′05		direct	3518 Apr 20 12:22	8° Y 42'05	
direct	3517 May 08 07:25	27° Y 24'11		desc. node	3518 Apr 21 05:15	8° Y 43'29	
	3517 May 16 07:37	9° 8		morning max el	3518 May 04 18:17	16° Ƴ 37'36	27°45'31
morning max el	3517 May 22 16:53	5° 8 09'08	27°05'45		3518 May 15 18:44	0°B	
	3517 Jun 10 00:28	$\Pi^{\circ}0$			3518 Jun 02 14:28	Π $^{\circ}0$	
morning set	3517 Jun 22 02:14	22° Ⅲ 57′25		morning set	3518 Jun 06 07:44	7° Ⅱ 28'19	
asc. node	3517 Jun 23 23:44	26° Ⅱ 58'33		asc. node	3518 Jun 10 20:48	17° Ⅱ 05'18	
	3517 Jun 25 09:23	0 \circ \odot		max. Earth dist.	3518 Jun 12 09:28	20° ∏ 24'35	1.32181 AU
superior conj	3517 Jun 29 03:44	8° © 15'23	0°52'01	superior conj	3518 Jun 13 14:43	23° ∏ 04'44	0°28'34
minimum elong	3517 Jun 29 01:42	8° © 04'15	0°51'38	minimum elong	3518 Jun 13 13:28	22° ∏ 57'49	0°28'18
max. Earth dist.	3517 Jun 28 22:41	7° © 47'34	1.32066 AU		3518 Jun 16 18:23	0° ©	
evening rise	3517 Jul 06 00:06	23°909'20		evening rise	3518 Jun 20 10:59	7° © 59'01	
	3517 Jul 09 07:40	$\Omega^{\circ}\Omega$			3518 Jul 01 21:02	0°N	25000120
	3517 Jul 27 05:21	0° Mp		evening max el	3518 Jul 16 23:36	20° Ω 13'45	25°08'38
desc. node	3517 Jul 31 07:32	5° Mp 02'30	26924154	desc. node	3518 Jul 18 04:32	21° Ω 20′29	
evening max el	3517 Aug 04 06:00	9° Mp 09'50	26°24'54	retrograde	3518 Jul 30 22:56	27° Ω 18'41	
retrograde	3517 Aug 18 05:20	16° Mp 20'24		evening set	3518 Aug 05 12:16	26° Ω 07'53	0.57568 AU
evening set min. Earth dist.	3517 Aug 24 20:16 3517 Aug 28 19:18	14° Mp 31'15 11° Mp 55'55	0.59578 AU	min. Earth dist. inferior conj	3518 Aug 10 11:21 3518 Aug 13 11:56	23°Ω24'13 21°Ω21'37	
inferior conj	3517 Aug 28 19:18 3517 Sep 01 02:06	9° My 22'36		minimum elong	3518 Aug 13 11:30 3518 Aug 13 12:05	21° Ω 21'21	
minimum elong	3517 Sep 01 02:00 3517 Sep 01 06:31	9° My 13'56		morning rise	3518 Aug 13 12:03 3518 Aug 21 14:21	$17^{\circ}\Omega 09'23$	3 07 34
morning rise	3517 Sep 01 00:51 3517 Sep 08 18:55	4° Mp 48'07	4 49 13	direct	3518 Aug 21 14.21 3518 Aug 24 03:42	16° Ω 50'07	
direct	3517 Sep 08 18:35 3517 Sep 11 04:35	4° Mp 27'38		morning max el	3518 Sep 02 00:17	21°Ω00'24	19°03'57
morning max el	3517 Sep 11 04:35 3517 Sep 18 22:06	8° my 12'33	18°19'12	asc. node	3518 Sep 06 20:00	26° Ω 41'35	17 03 37
asc. node	3517 Sep 19 22:55	9° mp 15'50	10 17 12	use. Houe	3518 Sep 09 01:09	0° m	
use. Houe	3517 Oct 02 23:24	0∘ ಹ		morning set	3518 Sep 18 18:56	17° m) 50'20	
morning set	3517 Oct 04 20:36	3° £ 34'25			3518 Sep 24 22:30	0∘ ⊽	
superior conj	3517 Oct 14 02:08	20° ≏ 56'38	1°23'13	superior conj	3518 Sep 27 02:23	4° Ω 11'49	1°38'24
minimum elong	3517 Oct 14 05:52	21° ≏ 13'43	1°22'50	minimum elong	3518 Sep 27 04:32	4° £ 22'12	1°38'17
	3517 Oct 19 03:30	0° M .		max. Earth dist.	3518 Oct 03 19:52	16° ≏ 44'58	1.38680 AU
max. Earth dist.	3517 Oct 21 15:24	4° I ቤ19'10	1.40755 AU	evening rise	3518 Oct 07 15:44	23° ჲ 30'39	
evening rise	3517 Oct 26 06:42	12°M05'44			3518 Oct 11 11:36	0° M	
desc. node	3517 Oct 27 06:52	13°M44'33		desc. node	3518 Oct 14 03:53	4°M23'17	
	3517 Nov 06 16:44	0°⊀			3518 Oct 31 12:09	0°⊀	
	3517 Nov 29 11:50	0°ಕ		evening max el	3518 Nov 12 03:59	13° ∡ ′48′20	24°39'32
evening max el	3517 Nov 29 15:02	0° ප 08'03	23°20'40	retrograde	3518 Nov 23 16:30	20° ₰ 31'11	
retrograde	3517 Dec 10 02:16	6° ප 19'52		evening set	3518 Nov 29 05:05	18° ∡ 12'47	
evening set	3517 Dec 15 01:11	4° る 17'07		asc. node	3518 Dec 03 19:11	13° 尽 00′21	
asc. node	3517 Dec 16 22:08	2° る 25'49		min. Earth dist.	3518 Dec 03 19:53	12° ≯ 58'05	0.67575 AU
	3517 Dec 18 21:14	30°R. ✓		inferior conj	3518 Dec 04 16:57	11° ∡ ′48′02	0°18'35
inferior conj	3517 Dec 20 10:38			minimum elong	3518 Dec 04 16:29	11° √ 49'33	0°18'23
minimum elong	3517 Dec 20 09:04	27° ₹ 58'13	1°09'56	morning rise	3518 Dec 10 03:58	5° ∡ ¹46'42	
min. Earth dist.	3517 Dec 20 00:13	28° 🖈 28'37	0.67920 AU	direct	3518 Dec 13 20:41	4° × ⁷ 28'13	1005015
morning rise	3517 Dec 25 16:54	21° 🖈 45'28		morning max el	3518 Dec 21 10:28	8° ∡ ¹46'34	19°59'51
direct	3517 Dec 29 22:33	20° ₹ 05'33	21011120		3519 Jan 06 07:12	0°る	
morning max el	3518 Jan 07 11:09	25° ₹ 02'39	21~11'39	desc. node	3519 Jan 10 03:08	5° 3 45'45	
4 1	3518 Jan 11 20:44	0°る		morning set	3519 Jan 17 02:33	16°る26'05	
desc. node	3518 Jan 23 06:05	15° る 32'44			3519 Jan 25 18:56	0° ≈	

September Sept	max. Earth dist.	3519 Jan 28 03:16	3° ≈ 43'49	1.44001 AU	morning max el	3519 Dec 04 17:27 3519 Dec 10 17:38	22° ™ 40'01 0° ҂	19°02'35
Sis Fig. 1 10 10 10 10 10 10 10	superior coni	3519 Feb. 02 11:44	12°221'55	-2°00'52	morning set			
Sip 1,0					Č			
Securing price SiP Mar N 18 50 79 14 14 17 14 17 14 17 14 17 14 17 14 15 15 15 15 15 15 15	minimum crong			2 00 37	desc. node			
Second Sign Nat Oil Sign 19 Sign	evening rise				max Earth dist			1 44979 AU
cereing man 3319 Mar 0 16.07 OPP superior cond 3500 Mar 12 23.05 CPT 5175 3 1735 6 1725 1745 1745 1745 1745 1745 1745 1745 174	•				max. Burtin dist.	3320 Juli 10 17.23	17 01711	1.11575110
Second max S319 Mar 10 A11					superior coni	3520 Jan 12 23:36	21° ප 15'03	-1°35'36
corrogande overwing set 35.90 Max 1 2.10.30 sey***(73.20) 3200 Jan 27 2.15.45 15% Park 1 4.15.50 30% PA infefror corej 35.99 Max 1 2.10.43 30% PA ace node 3520 Feb 16 32.30 0°H minimum clong 319 Mar 2 1.01.44 29°H3048 33012 evening max el 3520 Feb 17 02.08 15°H2219 18°314 min Earth dist 3570 Mar 2 3.07.16 29°H3048 0'3007 AU retoing max el 3520 Feb 17 02.08 15°H2219 18°314 direct 3579 Mar 2 0.02.22 29°H4930 infector conj 3520 Mar 03 1331 12°H2375 3°917 direct 3519 Apr 10 0.02.22 29°H4930 infector conj 3520 Mar 03 1331 12°H2575 3°917 morning max 3519 Apr 10 0.02.22 29°H470 20°H4712 min Earth dist 3320 Mar 03 1331 12°H4578 3°817 morning set 3519 May 2 10.01 21°H3582 eech code 3520 Mar 12 10.01 11°H3071 22°H174 11°H3071 37°H318 11°H3071 12°H3072 11°H3072 11°H3072 11°H3072 11°H3072	evening max el		2° Y 07'45	18°11'44				
Separation 19.50 May 14 21.50 2.974875 3.974875 3.950 May 12 3.195 Maz 20 1.033 30.974875 3.950 May 12 3.035 3.950 May			5° Ƴ 32'01		8	3520 Jan 18 11:47		
1896 1897 1898 1899	-		4° Υ 48'51		evening rise		15°≈13'27	
minimum clong 3519 Mar 2 01-44 29°H 310°K 37-810°L 20°H 310°K 37-810°L 20°H 310°K 37-910°L 3519 Mar 2 7 04-33 23°H 28'32 20°H 32'N 30'B 310°H 2 8'B 414'B 319 Mar 2 7 04-33 23°H 28'32 20°H 32'N 30'B 313'B 414'B 319 Mar 2 1 04-32 23°H 28'32 20°H 32'N 30'B 313'B 414'B 319 Mar 2 1 04-32 23°H 28'B 414'B 31'B 414'B 3	C	3519 Mar 20 14:53	30° ₹		S	3520 Feb 05 23:20	0°) €	
minimar along minimar al	inferior conj	3519 Mar 21 00:59	29°) 32'48	3°36'15	asc. node	3520 Feb 16 15:33	15°) 04'47	
nin. Earth dist. 3519 Mar 2 at 17:16 26°H 39*48 0.63007 AU retrogade 3520 Feb 2 at 15:46 19°H09030 omeorning ries 3519 Mar 2 at 17:16 26°H 233 22°H 29790 inferior conj 3520 Mar 0 at 12:40 12°H 29785 39°817 at 18°10 desc. node 3519 Apr 1 8 05:22 20°P 49*70 minimum clong 3520 Mar 0 at 12:40 12°H 240°Z	-	3519 Mar 21 01:44	29° ∺ 30'45	3°36'12	evening max el	3520 Feb 17 02:08	15°) 32′19	18°34'14
Green Gree	min. Earth dist.	3519 Mar 23 17:16	26°) 39'48	0.63007 AU		3520 Feb 23 15:46	19°) 09′30	
Secondary Seco	morning rise	3519 Mar 27 04:33	23°) €28'32		evening set	3520 Feb 26 18:58	18°) 14′19	
morning max el 3519 Apr 17 00.57 28°34'.4706 27°4742 min. Earth dist. 3520 Mar 05 1416 10°14'.140 0.64794 AU morning rise 3519 May 91 51.21 0°8 direct 3520 Mar 15 23:48 37'1915 7.74'.130'.130'.140'.140'.140'.140'.140'.140'.140'.14	direct	3519 Apr 03 02:23	20°) 49′30		inferior conj	3520 Mar 03 13:31	12°) 39′55	3°36'17
Mathematical Math	desc. node	3519 Apr 08 02:18	22°) €01'42		minimum elong	3520 Mar 03 12:40	12°) 42′26	3°36'15
morning set 3519 May 90 1512 0°B direct 3520 Mar 12 23:48 33*H3915 max. Earth dist. 3519 May 25 08:38 0°T morning max el 3520 Mar 24 23:49 1°H3077 27*14'55 max. Earth dist. 3519 May 26 15:37 2°T14'12 0°02'18 morning max el 3520 Mar 91 03:40 1°H3077 27*14'55 3520 mar 18 19*14'12 27*14'55 3520 mar 19*14'12	morning max el	3519 Apr 17 00:57	28°) 47′06	27°47'42	min. Earth dist.	3520 Mar 05 14:16	10°) (14'40	0.64794 AU
morning set 3519 May 21 07:10 21°438'02 morning max cl 3520 Mar 24 23:19 7°14'07 17°14'17' 17°14'		3519 Apr 18 05:22	$0^{\circ}\mathbf{\Upsilon}$		morning rise	3520 Mar 09 05:51	6° ∺ 29'29	
Max. Earth dist.		3519 May 09 15:12	0°8		direct	3520 Mar 15 23:48	3° ₩ 39'15	
Sample	morning set	3519 May 21 07:10	21° 8 38'02		desc. node	3520 Mar 24 23:19	7° ∺ 30′03	
Superior con Sip May 28 23.07 7"H4200 0"0219 morning set 3520 May 0.0 3.21.46 5" Signer or con minimum clong 3519 May 28 17.48 7"H1319 max. Earth dist. 3520 May 0.0 3.21.46 5" \text{Signer or con 5520 May 0.0 3.21.46 5" \text{Signer or con 5520 May 0.0 3.21.46 5" \text{Signer or con 5520 May 1.0 2.21.25 2"\text{Signer or con 5320 May 1.2 0.256 2.2"\text{Signer or con 5320 May 1.2 0.256 0.2"\text{Signer or con 5320 May 1.2 0.2.56 0.2"\text{Signer or con 5320 May 1.2 0.		3519 May 25 08:38	$\Pi^{\circ}0$		morning max el	3520 Mar 29 10:34	11° ∺ 30′17	27°14'55
Superior conj 3519 May 28 23.00 7° H.4200 0°02'19 morning set 3520 May 03 21.46 3°5'0 Its2 1.46 3606 AU 1.46 3606 AU 1.46 3606 AU 1.46 3606 AU 1.46 3616 A	max. Earth dist.	3519 May 26 15:37	2° Ⅱ 44′07	1.32717 AU		3520 Apr 13 03:25		
minimum elong 3519 May 28 31748 7°H I 1719 max. Earth dist. 3520 May 08 13:23 14°B3603 133696 AU behind sum ed 3519 May 28 17:48 8°H0932 sevenior conj 3520 May 12 02:56 22°B0118 0°25'55 evening rise 3519 May 28 17:50 7°H 13'27 minimum elong 3520 May 12 02:56 22°B0119 0°25'55 evening rise 3519 Jun 08 10:10 0°22 22°H 47'51 asc. node 3520 May 18 10:20 27°B1922 22°B0119 0°25'55 evening rise 3519 Jun 08 10:10 0°22 23°3443 evening rise 3520 May 19 09:48 7°H29'14 21°58'54 desc. node 3519 Jul 12 03:33 8°Q 4003 3°94'43 evening max el 3520 Jun 10 02 0°95 11°82'741 21°58'54 evening rise 3519 Jul 16 05:56 6°Q 5.744 8°A 40'44 68cc. node 3520 Jun 20 12:131 17°92'270 7°Q 34'18 evening set 3520 Jun 20 12:131 17°92'270 17°92'14 21°58'54 evening set 3520 Jun 20 12:131 17°92'270 17°92'14 21°58'54 evening set <td></td> <td></td> <td></td> <td></td> <td></td> <td>3520 May 01 03:08</td> <td>9°8</td> <td></td>						3520 May 01 03:08	9° 8	
behind sun begin 3519 May 28 17-48 7°H I3'19 superior conj 3520 May 12 0.256 22°B01'18 0°25'15 asc. node 3519 May 28 17-50 0°25'15 asc. node 3520 May 12 0.256 22°B01'18 0°25'35 cevening risse 3519 Jun 0°4 2.50 22°H 47'51 asc. node 3520 May 12 0.416 22°B08'19 0°25'35 asc. node 3519 Jun 0°1 18'55 0°Ω cevening risse 3520 May 15 0.259 0°H 7°H 179'38 cevening max el 3519 Jun 28 125-4 0°Ω-41'33 23°34'43 evening max el 3519 Jun 10°0 13.33 5°Ω-40'03 cevening max el 3519 Jun 10°0 13.33 5°Ω-40'03 cevening max el 3519 Jun 10°0 13.33 5°Ω-40'03 cevening max el 3519 Jun 12°0 355 0°Ω-40'03 cevening max el 3519 Jun 12°0 355 0°Ω-40'03 cevening max el 3520 Jun 0°50 2 11°952'41 21°S'85'4 retrograde 3519 Jun 12°0 355 0°Ω-40'03 cevening set 3520 Jun 0°50 2 11°952'41 21°S'85'4 retrograde 3519 Jun 12°0 21°25 0°3 40'03 0.5592'5 AU cevening set 3520 Jun 0°50 2 11°952'41 17°92'914 retrograde 3520 Jun 21°31 17°92'92'14 17°92'914 retrograde 3520 Jun 21°31 17°92'92'14 retrograde 3520 Jun 0°3 15:01 13°91'91 13°21'91	superior conj	3519 May 28 23:07	7° Ⅱ 42'00	0°02'19	morning set	3520 May 03 21:46	5° 8 18'22	
Sebind sun end 3519 May 29 04:12 8°H0932 superior conj 3520 May 12 02:56 22°E0118 0°2575 asc. node 3519 May 12 04:16 22°E01819 0°2575 3519 May 10 04 22:50 22°H4751 asc. node 3520 May 12 04:16 27°E01922 27°E01919 0°2575 3519 May 10 04 22:50 22°H4751 asc. node 3520 May 15 20:59 0°H 7°H1974 27°E01970 27°E0197	minimum elong	3519 May 28 23:00	7° Ⅱ 41'24	0°02'18	max. Earth dist.	3520 May 08 13:23	14° 8 36'03	1.33696 AU
Second Sip May 28 17:50 FII 127 Sip Minimum elong Sig D May 12 04:16 C2° S08*19 09:25' Sip Minimum elong Sig D May 14 14:25' C7° S19*21 Sip Jun 08 10:10 09° Sip Jun 18 10:10 1	behind sun begin	•						
Sevening rise 3519 Jun 04 22:50 22° Π4751 asc. node 3520 May 14 4:52 27° 8/19'22	behind sun end					•	_	
Sip Jun 08 10:10 0°\$ ceening rise 3520 May 15 20:59 0°\$ Ceening max el 3519 Jun 27 18:55 0°\$ 0°\$ ceening max el 3519 Jun 28 12:54 0°\$ 0°\$ ceening max el 3519 Jun 28 12:54 0°\$ 0°\$ ceening max el 3520 May 31 10:02 0°\$ ceening set 3520 Jun 20 22:34 17°\$ 2707 ceening set 3519 Jul 16 05:56 0°\$ 0°\$ 0°\$ ceening set 3520 Jun 21 21:31 17°\$ 2707 ceening set 3519 Jul 21 21:31 17°\$ 2707 ceening set 3520 Jun 24 15:01 17°\$ 21:36 ceening set 3520 Jul 21 31.30 17°\$ 2708 ceening set 3520 Jul 21 31.30 17°\$ 2708 ceening set 3520 Jul 21 31.50 13°\$ 37220 ceening minimum elong 3519 Jul 24 19:50 2°\$ 43'4523 minimum elong 3520 Jul 03 03:37 13°\$ 2722 05.4977 AU morning rise 3519 Aug 02 12:12 28°\$ 39928 morning rise 3520 Jul 03 09:37 13°\$ 2722 05.4977 AU morning max el 3519 Aug 11 10:31 0°\$ 0°\$ 0°\$ morning max el 3520 Aug 08 10:15 0°\$ 0°		•			minimum elong	-	_	0°25'35
Sip Jun 27 Ris55 O*Q evening rise Siz O May 19 O9:48 7*TL9'48 evening max el Siz O May 31 O0:20 O*G O*	evening rise				asc. node	•		
cevening max el 3519 Jun 28 12.54 0°Ω44'33 23°34'43 evening max el 3520 Jun 00 20.002 11°36'12'41 21°58'54 desc. node 3520 Jun 20 22.34 17°52'170' retrograde 3519 Jul 12 03.57 7°3,03'418 esening max el 3520 Jun 20 22.34 17°52'170' retrograde 3520 Jun 21 21:31 17°52'170' retrograde 3520 Jun 20 21:34 17°52'170' retrograde 3520 Jun 20 21:34 17°52'170' retrograde 3520 Jun 20 23:34 13°50'80' 3°34'40' minimum elong 3520 Jul 23 23:23 13°50'80' 3°34'40' minimum elong 3519 Jul 24 19:50 2°44'85' minimum elong 3520 Jul 20 20:37 13°52'172' 0.54977 AU morning rise 3519 Aug 02 12:12 28°52'918 8 direct 3520 Jul 21 16:37 9°51'6'37 21°36'53' morning max el 3519 Aug 15:36 3°40'726 20°10'25 asc. node 3520 Aug 10 14:06 3°4.948 sac. node 3519 Aug 24 170:40 14°4.05'49' asc. node 3520 Aug 10 14:06 3°4.04'94 sac. node 3519 Aug 24 170:40 4°4.05'49' asc. node 3520 Aug 24 14:20 2°10'125 13'42'48 minimum elong 3520 Aug 24 14:20 2°10'125 13'42'48 13'41'48								
desc. node 3519 Jul 05 01:33 5° Ω40'03 evening max el 3520 Jun 20 9:502 11° 12'41 21°58'54 retrograde 3519 Jul 12 03:57 7° Ω3'41'8 desc. node 3520 Jun 20 22:34 17° 527'07 retrograde 3519 Jul 21 03:57 7° Ω3'41'8 desc. node 3520 Jun 20 22:34 17° 527'07 min. Earth dist. 3519 Jul 22 02:55 3° Ω50'03 0.55925 AU evening set 3520 Jun 24 15:01 17° 521'23'6 inferior conj 3519 Jul 25 01:34 2° Ω3'420 4'46'14 inferior conj 3520 Jul 03 32:23 13° 50'808'7 -3° 34'40 minimum elong 3519 Jul 29 17'40 30° 85 minimum elong 3520 Jul 03 09:37 13° 520'72'5 0.54977 AU morning rise 3519 Aug 02 12:12 28° 5239'28 morning rise 3520 Jul 03 09:37 13° 520'75 0.54977 AU morning max el 3519 Aug 11 10:31 0° Ω morning max el 3519 Aug 11 10:31 0° Ω morning max el 3519 Aug 11 10:31 0° Ω morning max el 3519 Aug 11 10:31 0° Ω morning max el 3519 Aug 11 10:31 0° Ω morning set 3520 Aug 28 10:15 0° Ω asc. node 3519 Aug 14 10:34 3° Ω40'726 20° 10'25 morning set 3520 Aug 21 10:38 0° Ω asc. node 3519 Aug 14 10:34 3° Ω40'726 20° 10'25 morning set 3520 Aug 24 15:27 2° № 30'51 14° Ω4'24 morning set 3520 Aug 24 15:27 2° № 30'51 14° 24'8 morning rise 3519 Sep 10 16:36 18° № 10'91 14'424 minimum elong 3520 Aug 24 14:29 2° № 30'51 14'24'8 max. Earth dist. 3520 Aug 24 14:29 2° № 30'51 14'24'8 minimum elong 3519 Sep 10 16:36 18° № 10'1					evening rise	•		
retrograde	•			23°34'43		•		
evening set 3519 Jul 16 05:56 6° £5747 retrograde 3520 Jun 21 21:31 17° £22914 retrograde 3519 Jul 22 22:55 3² £30\$ 30.55925 AU evening set 3520 Jun 21 21:31 17° £21236 riferior conj 3519 Jul 25 01:34 2° £34305 4°45′23 minimum elong 3520 Jul 03 23:23 13° £20870 3°3440 riferior conj 3519 Jul 29 17:40 30° £2° £43′05 4°45′23 minimum elong 3520 Jul 03 15:01 13° £20′725 0.54977 AU riferior conj 3519 Jul 29 17:40 30° £2° £34′305 4°45′23 minimum elong 3520 Jul 03 09:37 13° £27′25 0.54977 AU riferior conj 3519 Aug 21 121 28° £39′328 morning rise 3520 Jul 03 09:37 13° £27′25 0.54977 AU riferior conj 3519 Aug 11 10:31 0° £0 morning rise 3520 Jul 15 20:24 8° £36′334 riferior conj 3519 Aug 24 17:04 14° £36′49 morning set 3520 Aug 24 15.27 2° £36′35 riferior conj 3519 Sep 10 16:06 18° £0′076 1°44′24 minimum elong 3520 Aug 24 15:27 2° £0′05′5 1°42′45 riferior conj 3519 Sep 10 16:36 18° £0′079 1°44′24 minimum elong 3520 Aug 24 15:27 2° £0° ±0′5 1° ±2′48 riferior conj 3519 Sep 10 16:36 18° £0′079 1° 44′24 minimum elong 3520 Aug 24 15:27 2° £0° ±0′5 1° ±2′48 riferior conj 3519 Sep 10 16:36 18° £0′079 1° 44′24 minimum elong 3520 Aug 24 15:27 2° £0° ±0′5 1° ±2′48 riferior conj 3519 Sep 10 16:36 18° £0′079 1° 44′24 minimum elong 3520 Aug 24 15:27 2° £0° ±0′5 1° ±2′48 riferior conj 3519 Sep 10 16:36 18° £0′079 1° 44′24 minimum elong 3520 Aug 24 15:27 2° £0° ±0′5 1° ±2′48 riferior conj 3519 Sep 10 16:36 18° £0′079 1° 44′24 minimum elong 3520 Aug 24 14:29 2° £0° ±0′5 1° ±2′48 riferior conj 3519 Sep 10 16:36 18° £0′079 1° 44′24 minimum elong 3520 Aug 24 14:29 2° £0° ±0′5 1° ±0′5 ±0′5 ±0′5 ±0′5 ±0′5 ±0′5 ±0′5 ±0′5					•			21°58'54
min. Earth dist. inferior conj 3519 Jul 22 22:55 3° Ω5003 0.55925 AU inferior conj 3520 Jul 03 23:23 13° 20807 -3° 3440 inferior conj 3519 Jul 24 19:50 2° Ω43'05 4° 45'23 minimum elong 3520 Jul 03 23:23 13° 208'07 -3° 34'40 minimum elong 3519 Jul 29 17:40 30° κ min. Earth dist. 3520 Jul 03 15:01 13° 201951 3° 322'20 minimum elong 3519 Aug 02 12:12 28° 293'928 moming rise 3520 Jul 12 16:37 9° 216'37 direct 3519 Aug 05 07:42 28° 291948 direct 3520 Jul 15 20:24 8° 254'34 moming max el 3519 Aug 11 10:31 0° Ω moming max el 3519 Aug 15 15:36 3° 200726 20°10'25 moming max el 3519 Aug 24 17:04 14° Ω56'49 asc. node 3520 Aug 10 14:06 3° Ω49'48 moming set 3519 Sep 10 19:06 0° № moming set 3520 Aug 24 15:27 2° № 30'51 1° 42'48 minimum elong 3519 Sep 10 16:09 18° № № 10 1° 44'24 minimum elong 3520 Aug 24 15:27 2° № 30'51 1° 42'45 max. Earth dist. 3519 Sep 16 16:36 18° № 19 21:27 5° 255'54 2 evening rise 3520 Sep 10 22:41 19° № 10° 36'54 Aug 24' 50'54 4° 28° 43'54 5° 25' 25' 31'59 Sep 10 10:35 0° № 10 10:35	•							
minferior conj minimum elong 3519 Jul 25 01:34 2°Ω34′29 4°46′14 minferior conj minimum elong 3519 Jul 24 19:50 2°Ω43′05 4°45′23 minimum elong 3520 Jul 03 15:01 13°©19′51 3°32′20 minimum elong 3520 Jul 03 15:01 13°©19′51 3°32′20 minimum elong 3520 Jul 31 5:01 13°©19′51 3°32′20 minimum elong 3520 Jul 31 5:01 13°©19′51 3°32′20 minimum elong 3520 Jul 31 5:01 13°©19′51 3°32′20 minimum elong 3520 Jul 30 09:37 13°©27′25 0.54977 AU morning rise 3519 Aug 02 12:12 28°©39′28 morning max el 3520 Jul 12 16:37 9°©16′37 9°©16′37 3719 Aug 11 10:31 0°Ω morning max el 3520 Jul 15 20:24 8°©54′34 morning max el 3519 Aug 15 15:36 3°Ω07′26 20°10′25 3520 Aug 08 10:15 14°©29′57 21°36′53 asc. node 3519 Aug 24 17:04 14°A26′49 asc. node 3520 Aug 10 14:06 3°Ω49′48 morning set 3520 Aug 10 14:06 3°Ω49′48 morning set 3520 Aug 24 10:27 2°™03′51 1°42′48 minimum elong 3519 Sep 10 16:36 18°™0706 1°44′24 minimum elong 3520 Aug 24 16:27 2°™03′51 1°42′48 max. Earth dist. 3519 Sep 16 01:48 28°™048′25 1.36681 AU max. Earth dist. 3520 Aug 24 14:29 2°™03′55 1°42′45 max. Earth dist. 3519 Sep 16 17:55 0°© 455′42 max. Earth dist. 3520 Sep 07 20:00 0°© 450′40′40 40:16 0°™0 450′40 40:16 450′40 40:16 450′40 40:16 450′40 40:16	•			0.55005.441	•			
minimum elong 3519 Jul 24 19:50 2° Ω43′05 4°45′23 minimum elong 3520 Jul 03 15:01 13°\$1951 3°32′20 minimum elong 3519 Jul 20 17:40 30°8€ minimum elong 3520 Jul 03 09:37 13°\$27′25 5.54977 AU morning rise 3519 Aug 02 12:12 28°\$39′28 direct 3520 Jul 12 16:37 9°\$£16:37 9°\$£16:37 3°32′20 3°319 Aug 03 07:42 28°\$£19′48 direct 3520 Jul 15 20:24 8°\$£4734 4°\$£2753 morning max el 3519 Aug 11 10:31 0° Ω morning max el 3520 Aug 08 10:15 0° Ω 48°£4734 4°\$£2753 asc. node 3520 Aug 08 10:15 0° Ω 3519 Aug 24 17:04 14°\$£05′49 asc. node 3520 Aug 17 08:46 17°£12′28 asc. node 3519 Sep 01 19:06 0° № morning set 3520 Aug 23 10:38 0° № asc. node 3519 Sep 01 19:06 0° № morning set 3520 Aug 24 15:27 2° № 30′51 1°42′48 minimum elong 3519 Sep 16 16:36 18° № 0706 1°44′24 minimum elong 3519 Sep 16 16:36 18° № 0919 1°44′24 minimum elong 3519 Sep 16 16:36 18° № 0919 1°44′24 minimum elong 3520 Aug 24 15:27 2° № 30′51 1°42′48 asc. node 3520 Aug 24 14:29 2° № 25′50 1°42′45 asc. node 3519 Sep 16 17:55 0° № evening rise 3520 Sep 01 22:41 19° № 1033 evening rise 3519 Sep 16 17:55 0° № evening rise 3520 Sep 16 21:54 15° № 10° № evening max el 3519 Oct 04 08:16 0° № evening max el 3520 Oct 07 04:46 11° № 03′3 evening max el 3519 Oct 04 08:16 0° № evening max el 3520 Oct 07 04:46 11° № 03′3 evening set 3519 Nov 15 06:52 30° № 1 06:6891 AU minimum elong 3520 Nov 01 20:32 9° № 130 1° 30° 30° 30° 30° Nov 10 16:42 3° № 130° 10° 10° 10° 10° 10° 10° 10° 10° 10° 1					-			2024140
Minimar Min	·				,			
morning rise 3519 Aug 02 12:12 28°\$39'28 morning rise 3520 Jul 12 16:37 9°\$16'37 direct 3519 Aug 15 10:31 0°\$\mathcal{L}\$ morning max el 3519 Aug 11 10:31 0°\$\mathcal{L}\$ morning max el 3520 Jul 27 19:15 14°\$\mathcal{L}\$ 19:15 14°\$\mathcal{L}\$ 21°\$\mathcal{L}\$ 19:15 14°\$\mathcal{L}\$ 19:15 14°\$\mathc	minimum eiong			4-45 25	_			
direct 3519 Aug 05 07:42 28°\$19'48 direct 3520 Jul 15 20:24 8°\$5'34 3519 Aug 11 10:31 0°Ω morning max el 3520 Jul 27 19:15 14°\$29'57 21°36'53 3520 Aug 08 10:15 0°Ω asc. node 3520 Aug 08 10:15 0°Ω asc. node 3519 Aug 24 17:04 14°Ω\$6'49 asc. node 3520 Aug 10 14:06 3°Ω\$49'48 3519 Sep 01 19:06 0°№ morning set 3520 Aug 17 08:46 17°\$\Quad \text{Q1}\$228 3519 Sep 10 16:09 18°\$\text{W07'06} 1°44'24 superior conj 3520 Aug 24 15:27 2°\$\text{W30'05} 1 1°42'48 3519 Sep 10 16:09 18°\$\text{W07'06} 18°\$\text{W07'06} 1°44'24 minimum elong 3520 Aug 24 16:27 2°\$\text{W30'05} 1 1°42'48 3519 Sep 10 16:09 18°\$\text{W07'06} 18°\$\text{W09'19} 1°44'24 minimum elong 3520 Aug 24 14:29 2°\$\text{W20'25'5} 1 3°\text{Q2'45'} 1 3'\text{V20'25'13} 3520 Aug 24 15:27 2°\$\text{W30'05} 1 1°42'48 3519 Sep 10 16:09 18°\$\text{W09'19} 1°44'24 minimum elong 3520 Aug 24 14:29 2°\$\text{W25'50} 1°42'45 3519 Sep 16 01:48 28°\$\text{W30'919} 1°44'24 minimum elong 3520 Aug 24 14:29 2°\$\text{W25'50} 1°42'45 3519 Sep 16 17:55 0°\$\text{\text{Q2}} 28 \text{W09'19} 1°44'24 minimum elong 3520 Aug 24 14:29 2°\$\text{W25'50} 1°42'45 3519 Sep 16 17:55 0°\$\text{\text{\text{Q2}} 28 \text{W09'19} 1°44'24 minimum elong 3520 Aug 24 14:29 2°\$\text{W25'50} 1°42'45 3519 Sep 16 17:55 0°\$\text{\text{\text{Q2}} 28 \text{W09'19} 1°44'24 minimum elong 3520 Aug 24 14:29 2°\$\text{W25'50} 1°42'45 3519 Sep 16 17:55 0°\$\text{\text{\text{Q2}} 28 \text{W09'19} 1°44'24 minimum elong 3520 Sep 07 20:00 0°\$\text{\text{\text{W00} M36'50} 1.34957 AU evening rise 3520 Sep 07 20:00 0°\$\text{\text{\text{W00} M36'50} 1.34957 AU evening rise 3520 Sep 07 20:00 0°\$\text{\text{\text{W00} M36'50} 1.34957 AU evening max el 3520 Sep 07 20:00 0°\$\text{\text{\text{W00} M36'50} 1.34957 AU evening max el 3520 Oct 07 00:46 11°\$\text{\text{W00} M36'50} 1.34957 AU evening max el 3520 Oct 07 00:46 11°\$\text{\text{W00} M36'50} 1.34957 AU evening set 3520 Oct 07 00:46 11°\$\text{\text{W00} M36'50} 1.34957 AU evening set 3520 Oct 07 00:46 11°\$\text{\text{W00} M36'50} 1.34957 AU evening set	morning rise							0.54977 AU
morning max el 3519 Aug 11 10:31 0° € morning max el 3520 Jul 27 19:15 14° €29'57 21° 36'53 asc. node 3519 Aug 15 15:36 3° €07'26 20° 10'25 asc. node 3520 Aug 08 10:15 0° € asc. node 3519 Aug 24 17:04 14° £26'49 asc. node 3520 Aug 10 14:06 3° £049'48 morning set 3519 Sep 01 19:06 0° № morning set 3520 Aug 23 10:38 0° № superior conj 3519 Sep 10 16:09 18° № 07'06 1° 44'24 superior conj 3520 Aug 23 10:38 0° № superior conj 3519 Sep 10 16:36 18° № 07'06 1° 44'24 minimum elong 3519 Sep 10 16:36 18° № 07'19 1° 44'24 minimum elong 3519 Sep 10 16:36 18° № 07'19 1° 44'24 minimum elong 3519 Sep 10 16:35 18° № 04'32'5 1.36681 AU max. Earth dist. 3519 Sep 16 17:55 0° № evening rise 3519 Sep 16 17:55 0° № evening rise 3519 Sep 16 17:55 0° № evening rise 3519 Sep 10 10:053 24° № 50'53 desc. node 3520 Sep 17 20:00 0° № evening max el 3519 Oct 25 16:20 27° № 30'53 evening max el 3519 Oct 25 16:20 27° № 30'53 evening set 3519 Nov 13 04:33 2° № 02'36 min. Earth dist. 3519 Nov 15 06:52 30° № № 1 0.66891 AU minimum elong 3520 Nov 01 17:50 9° № 31'00 -1° 37'37 min. Earth dist. 3519 Nov 15 06:52 30° № № 1 0.66891 AU minimum elong 3520 Nov 01 17:50 9° № 31'00 -1° 37'37 min. Earth dist. 3519 Nov 18 20:00 25° № 138' 03'73'2 morning rise 3519 Nov 10 16:15 23° № 25° 13'8 asc. node 3519 Nov 10 16:15 23° № 13'84'3 0° 37'32 morning max el 3520 Nov 01 10:642 3° № 04'74 morning rise 3519 Nov 20 16:15 23° № 138'43 0° 37'32 morning max el 3520 Nov 10 16:42 3° № 04'74 morning rise 3519 Nov 10 16:15 23° № 138'43 0° 37'32 morning max el 3520 Nov 10 16:42 3° № 04'74 morning rise 3519 Nov 20 16:15 23° № 23° 23° 24'94'14' morning max el 3520 Nov 10 10:42 3° № 04'74 morning rise 3519 Nov 20 16:15 23° № 23° 23° 20° 20'36 morning rise 3520 Nov 10 10:42 3° № 04'74 18° 21'24	•	-			-			
morning max el as 519 Aug 15 15:36	direct	•						21°36'53
asc. node 3519 Aug 24 17:04 3519 Sep 01 19:06 0° № morning set 3520 Aug 10 14:06 3520 Aug 10 14:06 350 Aug 24 17:04 17° € 12'28 3520 Aug 23 10:38 0° № superior conj 3519 Sep 10 16:09 18° № 07'06 1° 44'24 superior conj 3519 Sep 10 16:36 18° № 07'06 1° 44'24 minimum elong 3519 Sep 10 16:36 18° № 07'06 1° 44'24 minimum elong 3520 Aug 24 15:27 2° № 30'51 1° 42'48 max. Earth dist. 3519 Sep 10 16:36 18° № 09'19 1° 44'24 minimum elong 3520 Aug 24 14:29 2° № 30'51 1° 42'45 max. Earth dist. 3519 Sep 16 01:48 28° № 43'25 1.36681 AU max. Earth dist. 3520 Aug 24 14:29 2° № 30'51 1° 42'45 1° 42'45 1° 42'45 1° 42'45 1° 40'245	morning max el	•		20°10'25	morning max ci			21 3033
morning set 3519 Sep 01 19:06 0° № morning set 3520 Aug 17 08:46 17° ᠒12'28 3520 Aug 23 10:38 0° № superior conj 3519 Sep 10 16:09 18° № 07'06 1°44'24 superior conj 3520 Aug 24 15:27 2° № 30'51 1°42'48 minimum elong 3519 Sep 10 16:36 18° № 09'19 1°44'24 minimum elong 3520 Aug 24 14:29 2° № 25'50 1°42'45 max. Earth dist. 3519 Sep 16 17:55 0° ♣ 28° № 43'25 1.36681 AU max. Earth dist. 3520 Aug 24 14:29 2° № 25'50 1°42'45 avening rise 3519 Sep 16 17:55 0° ♣ 28° № 43'25 1.36681 AU max. Earth dist. 3520 Aug 24 14:29 2° № 10' № 36'50 1.34957 AU 3519 Sep 16 17:55 0° ♣ 28° № 43'25 1.36681 AU max. Earth dist. 3520 Aug 28 14:06 10° № 36'50 1.34957 AU 3519 Sep 19 22:27 5° ♣55'42 3520 Sep 07 20:00 0° ♠ 40 08:16 0° № 4 3520 Sep 07 20:00 0° ♠ 40 08:16 0° № 4 3520 Sep 16 21:54 15° ♣01'42 40 0° № 4 40 08:16 0° № 4 40 0	•	-		20 10 23	asc. node	•		
morning set 3519 Sep 02 23:46 2°₱25'13 3520 Aug 23 10:38 0°₱ superior conj 3519 Sep 10 16:09 18°₱00'06 1°44'24 superior conj 3520 Aug 24 15:27 2°₱30'51 1°42'48 minimum elong 3519 Sep 10 16:36 18°₱00'19 1°44'24 minimum elong 3520 Aug 24 14:29 2°₱25'50 1°42'45 max. Earth dist. 3519 Sep 16 01:48 28°₱43'25 1.36681 AU max. Earth dist. 3520 Aug 28 14:06 10°₱36'50 1.34957 AU 3519 Sep 16 17:55 0°₤ evening rise 3520 Sep 01 22:41 19°₱10'033 evening rise 3519 Sep 19 22:27 5°₤55'42 3520 Sep 07 20:00 0°₤ desc. node 3519 Oct 01 00:53 24°₤50'53 desc. node 3520 Sep 16 21:54 15°₤01'42 evening max el 3519 Oct 25 16:20 27°₱130'30 25°50'38 evening max el 3520 Oct 20 06:07 18°₱123'51 retrograde 3519 Nov 07 01:56 4°♣3'4'33 evening set 3520 Oct 20 06:07 18°₱123'51 retrograde 3519 Nov 13 04:33 2°♣0'236 min. Earth dist. 3520 Oct 30 21:57 11°₱130'47 0.65855 AU inferior conj 3519 Nov 17 11:53 27°₱123'10 0.66891 AU minimum elong 3520 Nov 01 17:50 9°₱131'00 -1°37'37 min. Earth dist. 3519 Nov 18 20:00 25°₱138'43 0°37'32 morning rise 3520 Nov 07 20:15 3°₱104'47 morning rise 3519 Nov 24 13:49 19°₱149'14 morning max el 3520 Nov 17 06:19 6°₱138'41 18°21'24 morning max el 3519 Nov 17 06:19 6°₱138'41 18°21'24	use. Houe	-				-		
superior conj 3519 Sep 10 16:09 18° m 07'06 1°44'24 superior conj 3520 Aug 24 15:27 2° m 30'51 1°42'48 minimum elong 3519 Sep 10 16:36 18° m 09'19 1°44'24 minimum elong 3520 Aug 24 14:29 2° m 25'50 1°42'45 max. Earth dist. 3519 Sep 16 01:48 28° m 43'25 1.36681 AU max. Earth dist. 3520 Aug 28 14:06 10° m 36'50 1.34957 AU 3519 Sep 16 17:55 0° Ω evening rise 3519 Sep 16 17:55 0° Ω 5° Ω 55'42 3519 Oct 01 00:53 24° Ω 50'53 desc. node 3519 Oct 01 00:53 24° Ω 50'53 desc. node 3519 Oct 04 08:16 0° m 3519 Oct 25 16:20 27° m 30'30 25° 50'38 evening max el 3519 Oct 25 16:20 27° m 30'30 25° 50'38 evening max el 3519 Oct 28 10:16 0° \nabla 7 retrograde 3520 Oct 20 06:07 18° m 23'51 retrograde 3519 Nov 13 04:33 2° \nabla 70'23'6 min. Earth dist. 3520 Oct 26 21:34 15° Ω 11'2 m 30'9 evening set 3519 Nov 15 06:52 30° m 1 1:53 27° m 23'10 0.66891 AU minimum elong 3519 Nov 18 20:00 25° m 38'43 0°37'32 morning rise 3519 Nov 18 21:00 25° m 38'43 0°37'32 morning rise 3520 Nov 07 10:64 3° m 10' m 34'4 18° 21'24' morning rise 3519 Nov 24 13:49 19° m 49'14 morning max el 3520 Nov 17 06:19 6° m 38'41 18° 21'24'	morning set	-			morning sec	-		
minimum elong max. Earth dist. 3519 Sep 10 16:36	<i>3</i>	. _F 2o	4				٦	
minimum elong max. Earth dist. 3519 Sep 10 16:36	superior conj	3519 Sep 10 16:09	18° ™ 07'06	1°44'24	superior conj	3520 Aug 24 15:27	2° m/30'51	1°42'48
max. Earth dist. 3519 Sep 16 01:48 28° M43'25 1.36681 AU max. Earth dist. 3520 Aug 28 14:06 10° M36'50 1.34957 AU 3519 Sep 16 17:55 0° Ω evening rise 3519 Sep 16 17:55 0° Ω sep 19 22:27 5° Ω55'42 3520 Sep 01 22:41 19° M10'33 24° Ω50'53 3519 Oct 01 00:53 24° Ω50'53 3519 Oct 04 08:16 0° M asian and a sian an	1 3	•				•		
evening rise 3519 Sep 16 17:55 0° \(\Omega\) evening rise 3520 Sep 01 22:41 19° \(\Omega\) 10133 evening rise 3519 Sep 19 22:27 5° \(\Omega\)55'42 \\ desc. node 3519 Oct 01 00:53 24° \(\Omega\)50'53 \\ evening max el 3519 Oct 04 08:16 0° \(\Omega\) evening max el 3519 Oct 25 16:20 27° \(\Omega\)30'30 25° 50'38 evening max el 3520 Oct 07 04:46 11° \(\Omega\)08'\(\Omega\)23'51 1021 0° \(\Omega\)1 retrograde evening set 3519 Nov 07 01:56 4° \(\omega\)34'33 evening set 3520 Oct 20 06:07 18° \(\Omega\)123'4 15° \(\Omega\)43'34'33 evening set 3520 Oct 20 06:07 18° \(\Omega\)123'\(\Omega\)43'\(\Omega\)43'3 16:16 0° \(\omega\)7 or \(\Omega\)23'\(\Omega\)7 or \(\Omega\)13'\(\Omega\)7 or \(\Omega\)13'\(\Omega\)1	_	-	28° m/43'25	1.36681 AU	max. Earth dist.	3520 Aug 28 14:06	10° m/36'50	1.34957 AU
evening rise desc. node 3519 Sep 19 22:27 5°\$\(\omegas\)50'53 desc. node 3520 Sep 16 21:54 15°\$\(\omegas\)01'42 soldesc. node 3519 Oct 01 00:53 24°\$\(\omegas\)50'53 desc. node 3520 Sep 16 21:54 15°\$\(\omegas\)01'42 evening max el 3519 Oct 25 16:20 27°\$\(\omegas\)30'30 25°50'38 evening max el 3520 Oct 07 04:46 11°\$\(\omegas\)08'23 26°46'30 retrograde 3519 Nov 07 01:56 4°\$\(\omegas\)34'33 evening set 3520 Oct 20 06:07 18°\$\(\omegas\)23'51 retrograde evening set 3519 Nov 13 04:33 2°\$\(\omegas\)08'\$\(\omegas\)08'\$\(\omegas\)18 00'\$\(\omegas\)18 00'\$\(\omegas\)18 00'\$\(\omegas\)18 00'\$\(\omegas\)18 00'\$\(\omegas\)18 00'\$\(\omegas\)19 Nov 15 06:52 30°\$\(\omegas\)11 0 0.66891 AU minimum elong 3520 Nov 01 17:50 9°\$\(\omegas\)103'\(\omegas\)19 Nov 18 20:00 25°\$\(\omegas\)14'51 -0°37'58 asc. node 3520 Nov 07 20:15 3°\$\(\omegas\)19 Nov 18 21:00 25°\$\(\omegas\)18'43 0°37'32 morning rise 3520 Nov 10 16:42 3°\$\(\omegas\)104'47 morning rise 3519 Nov 17 06:19 6°\$\(\omegas\)38'41 18°21'24		-	0∘ ⊽		evening rise	-	19° m 10'33	
evening max el 3519 Oct 04 08:16 0°M evening max el 3519 Oct 25 16:20 27°M30'30 25°50'38 evening max el 3520 Oct 07 04:46 11°M08'23 26°46'30 3519 Oct 28 10:16 0°\$\tilde{\mathbb{R}}\$ retrograde 3519 Nov 07 01:56 4°\$\tilde{\mathbb{R}}\$34'33 evening set 3520 Oct 20 06:07 18°M23'51 evening set 3519 Nov 13 04:33 2°\$\tilde{\mathbb{R}}\$0°RM min. Earth dist. 3520 Oct 20 21:34 15°M43'09 evening set 3519 Nov 15 06:52 30°RM inferior conj 3520 Nov 01 17:50 9°M31'00 -1°37'37 min. Earth dist. 3519 Nov 17 11:53 27°M23'10 0.66891 AU minimum elong 3520 Nov 01 17:50 9°M23'05 1°36'30 inferior conj 3519 Nov 18 20:00 25°M38'43 0°37'32 morning rise 3520 Nov 07 20:15 3°M49'52 asc. node 3519 Nov 20 16:15 23°M25'59 direct 3520 Nov 10 16:42 3°M04'47 morning rise 3519 Nov 17 06:19 6°M3'41 18°21'24	evening rise	3519 Sep 19 22:27	5° £ 55'42			3520 Sep 07 20:00	0∘ ত	
evening max el 3519 Oct 25 16:20 27° \textbf{\textit{\mathcal{R}}30'30} 25° 50'38 evening max el 3520 Oct 07 04:46 11° \textbf{\textit{\mathcal{R}}08'23} 26° 46'30 retrograde 3519 Nov 07 01:56 4° \textbf{\textit{\mathcal{R}}}34'33 evening set 3520 Oct 26 21:34 15° \textbf{\textit{\mathcal{R}}}4'09 evening set 3519 Nov 13 04:33 2° \textbf{\textit{\mathcal{R}}}02'36 min. Earth dist. 3520 Oct 30 21:57 11° \textbf{\textit{\mathcal{R}}}39'47 0.65855 AU 3519 Nov 15 06:52 30° \textbf{\textit{\mathcal{R}}}\textbf{\textit{\mathcal{R}}} 11' \textbf{\textit{\mathcal{R}}}00' \textbf{\textbf{\mathcal{R}}}00' \textbf{\textbf{\mathcal{R}}}00' \textbf{\textbf{\mathcal{R}}}00' \textbf{\textbf{\mathcal{R}}}00' \textbf{\textbf{\mathcal{R}}}00' \textbf{\textbf{\mathcal{R}}}00' \textbf{\mathcal{R}}00' \	desc. node	3519 Oct 01 00:53	24° ≏ 50'53		desc. node	3520 Sep 16 21:54	15° ≏ 01'42	
retrograde 3519 Nov 07 01:56 4°\$\times\$3519 Nov 07 01:56 4°\$\times\$3519 Nov 07 01:56 4°\$\times\$34'33 evening set 3520 Oct 26 21:34 15°\$\times\$143'09 evening set 3519 Nov 13 04:33 2°\$\times\$20'\times\$20'\times\$20'\times\$20'\times\$20 Oct 30 21:57 11°\$\times\$143'09 evening set 3519 Nov 15 06:52 30°\$\times\$11'\times\$11'\times\$13'\times\$12'\times\$10'\times\$11'\times\$12'\times\$10'\times\$11'\times\$10'\times\$12'\times\$10'\times\$11'\times\$10'\times\$12'\times\$10'\times\$11'\times\$10'\times\$12'\times\$10'\times\$11'\times\$10'\times\$12'\times\$10'\times\$11'\times\$10'\times\$12'\times\$10'\times\$11'\times\$10'\times\$12'\times\$10'\times\$11'\times\$10'\times\$12'\times\$10'\times\$11'\times\$10'\times\$12'\times\$10'\times\$11'\times\$10'\times\$12'\times\$10		3519 Oct 04 08:16	0° M ₊			-	0° M ₊	
retrograde	evening max el	3519 Oct 25 16:20	27°M30'30	25°50'38	evening max el	3520 Oct 07 04:46	11°ML08'23	26°46'30
evening set 3519 Nov 13 04:33		3519 Oct 28 10:16	0° ∡ ¹		•	3520 Oct 20 06:07	18°ML23'51	
3519 Nov 15 06:52 30°RM inferior conj 3520 Nov 01 17:50 9°M.31'00 -1°37'37 min. Earth dist. 3519 Nov 17 11:53 27°M.23'10 0.66891 AU minimum elong 3520 Nov 01 20:32 9°M.23'05 1°36'30 inferior conj 3519 Nov 18 20:00 25°M.41'51 -0°37'58 asc. node 3520 Nov 06 13:17 4°M.38'42 minimum elong 3519 Nov 18 21:00 25°M.38'43 0°37'32 morning rise 3520 Nov 07 20:15 3°M.49'52 asc. node 3519 Nov 20 16:15 23°M.25'59 direct 3520 Nov 10 16:42 3°M.04'47 morning rise 3519 Nov 24 13:49 19°M.49'14 morning max el 3520 Nov 17 06:19 6°M.38'41 18°21'24	retrograde	3519 Nov 07 01:56	4° ∡ °34'33			3520 Oct 26 21:34	15°ML43'09	
min. Earth dist. 3519 Nov 17 11:53 27° M23'10 0.66891 AU minimum elong 3520 Nov 01 20:32 9° M23'05 1°36'30 inferior conj 3519 Nov 18 20:00 25° M41'51 -0°37'58 asc. node 3520 Nov 06 13:17 4° M38'42 minimum elong 3519 Nov 18 21:00 25° M38'43 0°37'32 morning rise 3520 Nov 07 20:15 3° M49'52 asc. node 3519 Nov 20 16:15 23° M25'59 direct 3520 Nov 10 16:42 3° M04'47 morning rise 3519 Nov 24 13:49 19° M49'14 morning max el 3520 Nov 17 06:19 6° M38'41 18°21'24	evening set	3519 Nov 13 04:33	2° ҂ 02'36			3520 Oct 30 21:57	11° M 39'47	0.65855 AU
inferior conj 3519 Nov 18 20:00 25°M41'51 -0°37'58 asc. node 3520 Nov 06 13:17 4°M38'42 minimum elong 3519 Nov 18 21:00 25°M38'43 0°37'32 morning rise 3520 Nov 07 20:15 3°M49'52 asc. node 3519 Nov 20 16:15 23°M25'59 direct 3520 Nov 10 16:42 3°M04'47 morning rise 3519 Nov 24 13:49 19°M49'14 morning max el 3520 Nov 17 06:19 6°M38'41 18°21'24		3519 Nov 15 06:52	30°RM₊		inferior conj	3520 Nov 01 17:50	9°M31'00	-1°37'37
minimum elong 3519 Nov 18 21:00 25°M38'43 0°37'32 morning rise 3520 Nov 07 20:15 3°M49'52 asc. node 3519 Nov 20 16:15 23°M25'59 direct 3520 Nov 10 16:42 3°M04'47 morning rise 3519 Nov 24 13:49 19°M49'14 morning max el 3520 Nov 17 06:19 6°M38'41 18°21'24		3519 Nov 17 11:53				3520 Nov 01 20:32		1°36'30
asc. node 3519 Nov 20 16:15 23°M25'59 direct 3520 Nov 10 16:42 3°M04'47 morning rise 3519 Nov 24 13:49 19°M49'14 morning max el 3520 Nov 17 06:19 6°M38'41 18°21'24	-							
morning rise 3519 Nov 24 13:49 19°M.49'14 morning max el 3520 Nov 17 06:19 6°M.38'41 18°21'24	•			0°37'32	=			
e e								
direct 3519 Nov 27 19:22 18° II 49'16 3520 Dec 03 09:41 0° ✓	•				morning max el			18°21'24
	direct	3519 Nov 27 19:22	18° ∥L 49'16			3520 Dec 03 09:41	0° × 1	

morning set	3520 Dec 06 16:13	5° ∡ 17'08		morning max el	3521 Oct 31 22:23	20° £ 35'57	17°57'12
desc. node	3520 Dec 13 21:09	16° ₹ 751'01		morning max cr	3521 Vet 91 22:29 3521 Nov 08 01:20	0° ™	17 37 12
dese. node	3320 Bec 13 21.07	10 7 51 01		morning set	3521 Nov 18 05:22	16° M .49'11	
superior conj	3520 Dec 22 01:35	29° х 47'43	-0°53'47	morning sec	3521 Nov 26 02:34	0° ∡ 7	
minimum elong	3520 Dec 21 18:51	29° х 21'15		desc. node	3521 Nov 30 18:12	7° ∡ ³35'25	
	3520 Dec 22 04:43	0°ප					
max. Earth dist.	3520 Dec 23 14:22	2°る12'09	1.45231 AU	superior conj	3521 Dec 01 14:51	8° ∡ 758'42	-0°05'55
evening rise	3521 Jan 07 05:37	25° る 08'24		minimum elong	3521 Dec 01 14:09	8° ∡ 755'51	0°05'49
C	3521 Jan 10 07:53	0° ≈		behind sun begin	3521 Dec 01 04:27	8° ∡ 16'45	
greatest brilliancy	3521 Jan 17 22:17	11° ≈ 51'40	-0.8m	behind sun end	3521 Dec 01 23:51	9° ∡ ³34'54	
evening max el	3521 Jan 30 11:01	29° ≈ 01'17	19°14'09	max. Earth dist.	3521 Dec 06 09:02	16° ∡ ³34'18	1.44741 AU
C	3521 Jan 31 11:06	0° ∀			3521 Dec 14 23:08	0°⋜	
asc. node	3521 Feb 02 12:34	1° ¥ 38'52		evening rise	3521 Dec 17 19:41	4° ට 24'27	
retrograde	3521 Feb 06 11:48	3°) €02'14		greatest brilliancy	3522 Jan 01 08:55	26° る 25'33	-0.6m
evening set	3521 Feb 09 21:43	1° ¥ 54'13			3522 Jan 03 20:01	0° ≈	
•	3521 Feb 12 03:16	30°R≈		evening max el	3522 Jan 13 15:15	12° ≈ 32'42	20°09'38
inferior conj	3521 Feb 15 10:38	26° ≈ 03'41	3°21'36	asc. node	3522 Jan 20 09:35	17° ≈ 00'12	
minimum elong	3521 Feb 15 08:43	26° ≈ 09'52	3°21'19	retrograde	3522 Jan 21 09:46	17° ≈ 05'45	
min. Earth dist.	3521 Feb 16 20:09	24° ≈ 16′02	0.66191 AU	evening set	3522 Jan 25 03:50	15° ≈ 43'47	
morning rise	3521 Feb 20 19:26	19° ≈ 50'24		inferior conj	3522 Jan 30 13:32	9° ≈ 39'46	2°55'36
direct	3521 Feb 27 03:44	17°≈02'14		minimum elong	3522 Jan 30 11:05	9° ≈ 48'02	2°55'01
desc. node	3521 Mar 11 20:21	24° ≈ 34'07		min. Earth dist.	3522 Jan 31 09:10	8° ≈ 33'30	0.67178 AU
morning max el	3521 Mar 11 20:27	24° ≈ 34'23	26°13'53	morning rise	3522 Feb 04 18:07	3° ≈ 25'55	
	3521 Mar 16 18:10	0°) €		direct	3522 Feb 10 13:22	0° ≈ 50'25	
	3521 Apr 06 13:51	0 ° $\mathbf{\gamma}$		morning max el	3522 Feb 22 05:11	7° ≈ 48'32	24°54'00
morning set	3521 Apr 16 23:43	18° Ƴ 17'32		desc. node	3522 Feb 26 17:22	12° ≈ 46'52	
max. Earth dist.	3521 Apr 20 23:45	25° Ƴ 55'34	1.35134 AU		3522 Mar 11 13:52	0° ℋ	
	3521 Apr 23 01:21	$6^{\circ}B$		morning set	3522 Mar 30 08:04	0° Υ 21'42	
					3522 Mar 30 03:11	0 ° Υ	
superior conj	3521 Apr 25 23:44	5° 8 54'56	-0°54'43	max. Earth dist.	3522 Apr 02 23:16	6° Ƴ 56'27	1.36996 AU
minimum elong	3521 Apr 26 02:38	6° 8 09'41	0°54'11				
asc. node	3521 May 01 11:53	17° 8 18'12		superior conj	3522 Apr 09 10:36	19° Ƴ 15'14	-1°22'27
evening rise	3521 May 03 17:51	21° 8 57'41		minimum elong	3522 Apr 09 14:48	19° Ƴ 35'49	1°21'50
	3521 May 07 17:37	$\Pi^{\circ}0$			3522 Apr 14 20:09	0° 8	
evening max el	3521 May 22 07:03	22° II 07'39	20°34'13	evening rise	3522 Apr 17 20:44	6° 8 04'57	
retrograde	3521 Jun 02 10:34	27° Ⅲ 34′00		asc. node	3522 Apr 18 08:54	7° 8 05'52	
evening set	3521 Jun 04 11:27	27° Ⅱ 23'50			3522 May 01 14:20	$\Pi^{\circ}0$	
desc. node	3521 Jun 07 19:35	26° Ⅲ 27′10		evening max el	3522 May 04 21:20	3° Ⅱ 43'31	19°27'27
inferior conj	3521 Jun 13 17:08	23° Ⅲ 26′14	-1°43'54	retrograde	3522 May 14 07:09	8° Ⅱ 17'36	
minimum elong	3521 Jun 13 12:14	23° Ⅲ 33'17	1°42'08	evening set	3522 May 16 07:09	80'B06'08	
min. Earth dist.	3521 Jun 14 21:45	22° Ⅱ 44'56	0.54956 AU	inferior conj	3522 May 24 21:19	4° Ⅱ 00′23	0°14'04
morning rise	3521 Jun 22 12:14	19° Ⅱ 17'33		minimum elong	3522 May 24 21:56	3° Ⅱ 59'25	0°13'51
direct	3521 Jun 26 05:56	18° Ⅱ 47'26		transit middle	3522 May 24 21:56	3° Ⅱ 59'25	0°13'51
morning max el	3521 Jul 09 13:30	25° Ⅱ 13'31	23°17'04	transit begin	3522 May 24 19:59	4° Ⅱ 02'33	
	3521 Jul 14 00:19	0ංම		transit end	3522 May 24 23:52	3° Ⅱ 56'16	
asc. node	3521 Jul 28 11:08	23° © 10'24		desc. node	3522 May 25 16:35	3° Ⅱ 29'10	
	3521 Jul 31 19:59	0 \circ Ω		min. Earth dist.	3522 May 27 12:03	2° Ⅱ 19'30	0.55890 AU
morning set	3521 Aug 01 19:58	2° Ω 05'33			3522 May 31 17:09	30°₹ ႘	
				morning rise	3522 Jun 02 09:52	29° 8 19'24	
superior conj	3521 Aug 08 21:05		1°34'53	direct	3522 Jun 07 01:27	28° 8 30'26	
minimum elong	3521 Aug 08 19:12	17° Ω 02'30	1°34'42		3522 Jun 13 08:03	$\Pi^{\circ}0$	
max. Earth dist.	3521 Aug 11 11:08	22° Ω 42'40	1.33617 AU	morning max el	3522 Jun 21 03:35	5° Ⅱ 37'46	24°58'58
	3521 Aug 14 23:39	O° m p			3522 Jul 08 16:35	0ಂತ	
evening rise	3521 Aug 16 12:02	3° m 02'49		asc. node	3522 Jul 15 08:11	12° © 51'21	
	3521 Aug 31 15:37	0∘ ⊽		morning set	3522 Jul 17 07:43	16° © 59'33	
desc. node	3521 Sep 03 18:56	4° £ 47'38			3522 Jul 23 07:50	$0 ^{\circ} \Omega$	
evening max el	3521 Sep 19 16:42	24° ≏ 32'02	27°19'58				
	3521 Sep 26 20:18	0° M ₊		superior conj	3522 Jul 24 06:40	2° Ω 04'51	1°21'41
retrograde	3521 Oct 03 04:40	1°M50'36		minimum elong	3522 Jul 24 04:20	1° Ω 52'10	
	3521 Oct 09 00:43	30° ₹ Ω		max. Earth dist.	3522 Jul 25 16:17	5° Ω 08'01	1.32697 AU
evening set	3521 Oct 10 05:37	29° ≏ 09'16		evening rise	3522 Jul 31 10:53	17° Ω 22'19	
min. Earth dist.	3521 Oct 13 23:56	25° ≙ 40'48	0.64458 AU		3522 Aug 06 21:49	0° m	
inferior conj	3521 Oct 16 08:07	23° ≙ 10'17	-2°38'21	desc. node	3522 Aug 21 15:57	23° m 58'18	
minimum elong	3521 Oct 16 12:30	22° ≏ 58'30	2°36'43		3522 Aug 26 06:16	0∘ ত	
morning rise	3521 Oct 22 20:34	17° ≏ 43'41		evening max el	3522 Sep 02 02:28	7° £ 29'25	27°24'35
asc. node	3521 Oct 24 10:19	17° ≙ 14'49		retrograde	3522 Sep 15 20:43	14° ≙ 45'19	
direct	3521 Oct 25 10:21	17° ≏ 09'37		evening set	3522 Sep 23 01:23	12° ≙ 14'32	

min. Earth dist.	3522 Sep 26 16:07	9° £ 15'57	0.62736 AU	inferior conj	3523 Sep 12 02:22	19° m 31'15	-4°27'36
inferior conj	3522 Sep 29 12:02	6° £ 33'01		minimum elong	3523 Sep 12 07:54	19° m 19'32	
minimum elong	3522 Sep 29 17:40	6° ₽ 19'30	3°35'11	morning rise	3523 Sep 19 12:59	14° m 43'20	
morning rise	3522 Oct 06 11:29	1° ≏ 24'06		direct	3523 Sep 21 21:58	14° m 21'09	
direct	3522 Oct 08 21:19	0° £ 57′29		asc. node	3523 Sep 28 04:27	17° m 02'56	
asc. node	3522 Oct 11 07:22	1° ≏ 25'01		morning max el	3523 Sep 29 04:01	17° m 56'40	18°03'04
morning max el	3522 Oct 15 14:39	4° £ 24'21	17°50'43	-	3523 Oct 07 19:34	0° ت	
morning set	3522 Oct 31 17:44	29° ჲ 27'53		morning set	3523 Oct 14 23:03	12° ≙ 55'15	
	3522 Nov 01 00:58	0° M			3523 Oct 24 06:47	0° M	
aumorior coni	3522 Nov 12 04:47	19° M 22'30	0°37'07	aymerier ceni	3523 Oct 24 21:08	1° M .03'50	1°09'39
superior conj minimum elong	3522 Nov 12 04.47 3522 Nov 12 08:10	19 11622 30 19°M36'46	0°36'38	superior conj minimum elong	3523 Oct 24 21:08 3523 Oct 25 01:22	1°M22'34	1°09'39 1°09'09
desc. node	3522 Nov 12 08:10 3522 Nov 17 15:15	28°M22'33	0 3038	max. Earth dist.	3523 Nov 01 12:24	14°M12'42	1.41891 AU
desc. Hode	3522 Nov 17 15:15 3522 Nov 18 15:15	20 11622 33 0° ₹ 1		desc. node	3523 Nov 01 12:24 3523 Nov 04 12:18	19°M09'25	1.41691 AU
max. Earth dist.	3522 Nov 18 13:13 3522 Nov 19 00:57	0° ∡ 739'15	1.43581 AU	evening rise	3523 Nov 04 12:18 3523 Nov 07 03:01	23°M22'53	
evening rise	3522 Nov 17 05:37 3522 Nov 27 05:23	13° × ³ 5'47	1.43301710	evening rise	3523 Nov 07 03:01 3523 Nov 11 07:44	0°×7	
e vennig rise	3522 Dec 08 01:16	ਾਤ ਅਤ			3523 Dec 02 02:43	°5	
evening max el	3522 Dec 27 14:03	26° පි 05'16	21°17'52	evening max el	3523 Dec 02 02:13 3523 Dec 10 07:44	9° ප 39'50	22°34'39
evening max or	3523 Jan 01 07:22	0°≈	21 1, 32	retrograde	3523 Dec 20 03:12	15° る 29'33	22 3 . 3 /
retrograde	3523 Jan 05 07:27	1°≈15'49		evening set	3523 Dec 24 18:53	13° る 36'05	
asc. node	3523 Jan 07 06:37	0°≈54'41		asc. node	3523 Dec 25 03:39	13° る 17'16	
	3523 Jan 08 23:53	30°R₹		inferior conj	3523 Dec 30 03:33	7°る14'22	1°38'00
evening set	3523 Jan 09 11:26	29° る 38'37		minimum elong	3523 Dec 30 01:32	7° る 21'21	1°37'15
inferior conj	3523 Jan 14 19:50	23° る 24'03	2°20'33	min. Earth dist.	3523 Dec 29 23:20	7° る 28'58	0.67972 AU
minimum elong	3523 Jan 14 17:22	23° る 32'35	2°19'46	morning rise	3524 Jan 04 08:05	1° る 04'45	
min. Earth dist.	3523 Jan 15 03:00	22° る 59'17	0.67764 AU	-	3524 Jan 05 21:34	30°₽ ⋌	
morning rise	3523 Jan 19 23:06	17° る 11'28		direct	3524 Jan 08 21:56	29° 渘 11'40	
direct	3523 Jan 25 03:46	14° る 55'36			3524 Jan 12 03:42	0°ಕ	
morning max el	3523 Feb 04 13:53	21° る 07'36	23°25'40	morning max el	3524 Jan 18 02:03	4° る 34'19	21°58'25
	3523 Feb 12 05:04	0° ≈		desc. node	3524 Jan 31 11:30	21° る 24'36	
desc. node	3523 Feb 13 14:25	1° ≈ 48'12			3524 Feb 06 10:05	0° ≈	
	3523 Mar 04 20:19	0° ∀		morning set	3524 Feb 19 20:38	20° ≈ 43′23	
morning set	3523 Mar 11 16:39	11°) (13′44		max. Earth dist.	3524 Feb 25 16:29	0°) 16′23	1.41283 AU
max. Earth dist.	3523 Mar 15 18:07	18°) 12′15	1.39135 AU		3524 Feb 25 12:34	0° ℋ	
	3523 Mar 22 07:30	0 ° $\mathbf{\Upsilon}$					
				superior conj	3524 Mar 04 09:59	13° ∺ 33'32	
superior conj	3523 Mar 23 07:37	1° Y 51'55		minimum elong	3524 Mar 04 13:01	13°) 46′54	2°02'37
minimum elong	3523 Mar 23 12:12	2°Υ13'21	1°45'57		3524 Mar 13 11:14	0° Υ	
evening rise	3523 Apr 01 15:37	19° Y 43′50		evening rise	3524 Mar 14 23:09	2° Υ 46'28	
asc. node	3523 Apr 05 05:56	26° Y 37'04		asc. node	3524 Mar 22 02:58	15° Y 46′01	
	3523 Apr 07 01:39	0° 8		evening max el	3524 Mar 31 06:01	28° Y 42'44	18°14'05
evening max el	3523 Apr 17 22:05	15° 8 57'57	18°40'43		3524 Apr 01 16:53	0° 8	
retrograde	3523 Apr 25 21:10	19° 8 52'00		retrograde	3524 Apr 07 06:10	2° 8 13'29	
evening set	3523 Apr 28 02:52	19° 8 34'38	1950100	evening set	3524 Apr 09 18:17	1° 8 47'22	
inferior conj	3523 May 05 21:10	15° 8 10'53	1°50'08	:c:	3524 Apr 13 02:55 3524 Apr 16 18:21	30° ₹Ƴ 27° Ƴ 02'44	2052147
minimum elong min. Earth dist.	3523 May 06 00:41 3523 May 09 05:18	13° 8 41'10	1°49'03 0.57570 AU	inferior conj	3524 Apr 16 18:21 3524 Apr 16 21:45	26° Y $55'13$	2°53'47 2°53'03
desc. node	3523 May 09 03:18 3523 May 12 13:36	12 8 41 10	0.37370 AU	minimum elong min. Earth dist.	3524 Apr 10 21:43 3524 Apr 20 03:50	24° Υ 04'46	0.59663 AU
morning rise	3523 May 12 13:30 3523 May 13 19:18	9° 8 55'42		morning rise	3524 Apr 20 03:30 3524 Apr 23 22:43	24 γ 04 40 21° γ 20'45	0.39003 AO
direct	3523 May 19 10:53	8° 8 36'36		desc. node	3524 Apr 28 10:39	19° Υ 36'29	
morning max el	3523 Jun 02 19:31	16° 8 10'28	26°27'09	direct	3524 Apr 30 09:01	19° Υ 26'11	
morning max or	3523 Jun 14 01:46	0°II	20 27 07	morning max el	3524 May 14 17:22	27° Υ 15'46	27°27'16
	3523 Jun 30 21:32	0 . ಅ			3524 May 17 08:13	0°8	2, 2, 10
morning set	3523 Jul 01 18:27	1° 5 49'37			3524 Jun 06 15:54	0°II	
asc. node	3523 Jul 02 05:15	2°5946'39		morning set	3524 Jun 15 02:24	16° Ⅱ 29'27	
				asc. node	3524 Jun 18 02:17	22° I I50'30	
superior conj	3523 Jul 08 18:12	17° © 01'02	1°03'59		3524 Jun 21 09:05	0ಂ ತಾ	
minimum elong	3523 Jul 08 15:56	16°5548'33	1°03'36	max. Earth dist.	3524 Jun 21 14:42	0° © 30'54	1.32068 AU
max. Earth dist.	3523 Jul 09 02:44	17° © 48'07	1.32183 AU				
	3523 Jul 14 17:30	$0^{\circ}\Omega$		superior conj	3524 Jun 22 05:52	1°954'24	0°42'27
evening rise	3523 Jul 15 16:17	2° Ω 00'05		minimum elong	3524 Jun 22 04:07	1°5944'46	0°42'06
-	3523 Jul 30 20:18	0° m p		evening rise	3524 Jun 29 01:45	16°5947'25	
desc. node	3523 Aug 08 12:57	12° m 19'29			3524 Jul 05 14:49	$0^{\circ}\Omega$	
evening max el	3523 Aug 15 07:27	19° m 48'02	26°56'17	desc. node	3524 Jul 25 09:58	29° Ω 30′08	
retrograde	3523 Aug 29 05:09	26° m 59'41			3524 Jul 25 21:31	0° m	
evening set	3523 Sep 05 04:40	24° m 52'04		evening max el	3524 Jul 27 05:07	1° ™ 17'59	25°55'30
min. Earth dist.	3523 Sep 08 21:40	22°M 12'52	0.60766 AU	retrograde	3524 Aug 10 04:32	8° ™ 26'13	

evening set	3524 Aug 16 10:31	6° m 52'48		min. Earth dist.	3525 Aug 02 06:57	15° O 17'34	0.56806 AU
min. Earth dist.	3524 Aug 10 10:31 3524 Aug 20 17:27		0.58702 AU	inferior conj	3525 Aug 02 00:37 3525 Aug 05 00:29	13° Ω 33'01	
inferior conj	3524 Aug 20 17:27 3524 Aug 23 23:25	1° Mp 53'58		minimum elong	3525 Aug 03 00:29 3525 Aug 04 22:08	13° € 3501	
minimum elong	3524 Aug 24 02:24	1°Mp48'28		morning rise	3525 Aug 04 22:08 3525 Aug 13 06:38	9° Ω 29'35	3 04 16
minimum ciong	3524 Aug 26 16:00	30°RΩ	3 01 00	direct	3525 Aug 15 00:36 3525 Aug 15 22:17	9° Ω 10'26	
morning rise	3524 Aug 31 20:30	27°Ω29'17		morning max el	3525 Aug 15 22:17 3525 Aug 25 09:05	13° Ω 34'48	19°29'38
direct	3524 Nug 31 20:30 3524 Sep 03 07:36	27° Ω 09'23		asc. node	3525 Aug 25 05:05 3525 Aug 31 22:34	21° Ω 41'27	17 27 30
direct	3524 Sep 10 06:39	0° m		ase. Hode	3525 Rug 51 22:54 3525 Sep 05 20:58	0° mp	
morning max el	3524 Sep 11 11:12	1° m)03'14	18°35'39	morning set	3525 Sep	11° m)20'19	
asc. node	3524 Sep 14 01:31	3° m/53'22	10 33 37	morning sec	3323 бер 11 17.33	11 11/2019	
morning set	3524 Sep 27 16:13	26° Mp 56'01		superior conj	3525 Sep 19 17:54	27° m 22'47	1°41'59
morning sec	3524 Sep 29 06:10	0∘ ಹ		minimum elong	3525 Sep 19 17:31 3525 Sep 19 19:18	27° m/29'42	1°41'55
	3321 Sep 23 00.10	° –		minimum ciong	3525 Sep 21 02:06	0° ⊽	1 1133
superior conj	3524 Oct 06 11:20	13° ≏ 49'05	1°30'53	max. Earth dist.	3525 Sep 25 22:47	o — 9° Ω 12'36	1.37802 AU
minimum elong	3524 Oct 06 14:28	14° ⊆ 03'42	1°30'37	evening rise	3525 Sep 29 16:57	16° ⊆ 00'03	1.57002710
max. Earth dist.	3524 Oct 13 18:46	27° ♀ 02'50	1.39878 AU	evening rise	3525 Oct 07 23:51	0°M	
max. Lartii dist.	3524 Oct 15 11:39	0°ML	1.57070710	desc. node	3525 Oct 07 25:31 3525 Oct 08 06:19	0°M26'00	
evening rise	3524 Oct 17 22:20	4° ML 09'10		dese. Hode	3525 Oct 00 00:15 3525 Oct 29 02:21	0°×7	
desc. node	3524 Oct 21 09:19	9°M51'52		evening max el	3525 Nov 04 09:54	6° ₹ 157'05	25°11'10
dese. Hode	3524 Nov 03 12:42	0° ⊼		retrograde	3525 Nov 16 08:11	13° × ⁷ 51'05	23 11 10
evening max el	3524 Nov 21 21:39	23° х 16'54	23°54'38	evening set	3525 Nov 22 02:47	11° × ⁷ 26'16	
retrograde	3524 Dec 02 19:48	29° х 42'50	23 3 1 3 0	min. Earth dist.	3525 Nov 26 14:13		0.67321 AU
evening set	3524 Dec 02 17:46 3524 Dec 08 00:33	27°×732'59		inferior conj	3525 Nov 27 15:59	5°×102'24	
asc. node	3524 Dec 08 00:33 3524 Dec 11 00:43	24° × 20'35		minimum elong	3525 Nov 27 15:07	5°×102'00	
inferior conj	3524 Dec 11 00:43 3524 Dec 13 10:52	21°×707'58	0°49'09	transit middle	3525 Nov 27 16:07 3525 Nov 27 16:07	5° × 02'00	
minimum elong	3524 Dec 13 10:32 3524 Dec 13 09:44	21°× 07'50	0°48'40	transit inidale	3525 Nov 27 10:07 3525 Nov 27 13:28	5°×10'39	0 0434
min. Earth dist.	3524 Dec 13 09:44 3524 Dec 12 19:50	21° x 11'30' 21° x 58'59	0.67817 AU	transit ocgin	3525 Nov 27 13:28 3525 Nov 27 18:46	4° 🖈 53'22	
morning rise	3524 Dec 12 19:50 3524 Dec 18 18:55	15° × 03'10	0.07817 AU	asc. node	3525 Nov 27 18:46 3525 Nov 27 21:46	4° 🖈 43'34	
direct	3524 Dec 18 18:53 3524 Dec 22 18:51	13° 🗷 32'48		asc. node	3525 Nov 27 21:40 3525 Dec 02 01:08	30°RM	
morning max el	3524 Dec 30 20:57	18° 🖈 11'54	20030133	morning rise	3525 Dec 02 01:08 3525 Dec 03 05:41	29°M04'31	
morning max ci	3525 Jan 09 10:08	0°중	20 39 33	direct	3525 Dec 05 05.41 3525 Dec 06 17:16	27°M54'31	
desc. node	3525 Jan 17 08:33	11° 云 26'09		direct	3525 Dec 00 17:10 3525 Dec 11 17:52	27 11 0 3∓31	
morning set	3525 Jan 28 23:34	29° ろ 06'18		morning max el	3525 Dec 11 17:32 3525 Dec 13 23:41	2° × ⁷ 00'09	19°33'35
morning set	3525 Jan 29 13:22	0°≈		greatest brilliancy	3525 Dec 13 23:41 3525 Dec 27 03:13	19° 🖈 27'26	-0.7m
max. Earth dist.	3525 Feb 06 22:05	0 ≈ 13°≈16'07	1.43144 AU	greatest offinancy	3526 Jan 03 02:05	19 メ ・2720	-0.7111
max. Latur dist.	3323100 00 22.03	13 ~1007	1. 13111 A0	desc. node	3526 Jan 04 05:35	1°る45'30	
superior conj	3525 Feb 13 12:42	24°≈08'45	-2°06'30	morning set	3526 Jan 07 20:30	7°る20'27	
minimum elong	3525 Feb 13 11:16	24°≈02'48	2°06'29	max. Earth dist.	3526 Jan 20 10:22	7 3 2027 26° る 59'47	1.44492 AU
minimum clong	3525 Feb 16 23:44	0° ∺	2 00 2)	max. Lartii dist.	3526 Jan 22 07:45	20 ⊙ 35 47	1.444)2 AO
evening rise	3525 Feb 25 15:11	15° ∺ 03'59			3320 Jan 22 07.43	0 ~	
evening rise	3525 Mar 06 05:23	0° Υ		superior conj	3526 Jan 24 13:21	3°≈34'14	-1°52'33
asc. node	3525 Mar 09 00:00	4° Υ 25'33		minimum elong	3526 Jan 24 06:07	3°≈05'13	
evening max el	3525 Mar 14 17:50	11° Y 49'15	18°07'05	evening rise	3526 Feb 07 11:14	26°≈27'01	1 32 04
retrograde	3525 Mar 21 06:28	11° γ 4913	18 07 03	evening rise	3526 Feb 09 13:52	0° H	
evening set	3525 Mar 24 00:25	14° Y 35'41		asc. node	3526 Feb 23 21:03	22°) 25'48	
inferior conj	3525 Mar 30 10:04	9° Y 30'46	3°27'39	evening max el	3526 Feb 26 06:29	25°\(\frac{1}{25}\)	18°19'07
minimum elong	3525 Mar 30 10:04	9° Υ 26'11	3°27'27	retrograde	3526 Mar 04 17:22	28° H 37'27	10 1707
min. Earth dist.	3525 Apr 02 10:18	6° Υ 29'18	0.61827 AU	evening set	3526 Mar 07 17:22 3526 Mar 07 17:01	27°) (49'27	
morning rise	3525 Apr 02 10:18 3525 Apr 05 21:46	3° Υ 32'01	0.01827 AU	inferior conj	3526 Mar 13 16:07	22° H 25'34	2028118
direct	3525 Apr 12 17:56	1° Υ 06'00		minimum elong	3526 Mar 13 16:09	22° X 25'30	
desc. node	3525 Apr 12 17:50 3525 Apr 15 07:41	1° Υ 25'05		min. Earth dist.	3526 Mar 16 02:00	19° H 42'21	0.63806 AU
morning max el	3525 Apr 26 21:35	9° Υ 03'46	27051105	morning rise	3526 Mar 19 14:25	19 X 4221 16° X 17'56	0.03800 AU
morning max er	3525 Apr 26 21.33 3525 May 13 01:17	9 1 03 40 0° と	27 31 03	direct	3526 Mar 19 14.23 3526 Mar 26 11:28	13°\(\frac{1}{30}\)	
	•	0°II		desc. node		15° X 42'39	
	3525 May 29 19:16				3526 Apr 02 04:44		27927140
morning set	3525 May 30 05:39	0°II52'53		morning max el	3526 Apr 09 05:53	21° 米 29'11 0° Ƴ	27°37'40
asc. node	3525 Jun 04 23:19	12° II 58'37	1 22250 ATT		3526 Apr 16 15:53		
max. Earth dist.	3525 Jun 05 00:09	13° Ⅱ 03'07	1.32358 AU		3526 May 06 04:23	0° 8	
annari	2525 I 06 15 50	160∏20125	0017!44	morning set	3526 May 14 01:43	14° 8 51'26	1 22076 411
superior conj	3525 Jun 06 15:59	16° Ⅱ 39'35	0°17'44	max. Earth dist.	3526 May 19 02:59	25° B 11'03	1.33076 AU
minimum elong	3525 Jun 06 15:10	16° Ⅱ 35'08	0~1/34		3526 May 21 09:35	Π $^{\circ}0$	
	3525 Jun 12 19:00	0°95			252635 21 22 12	107700	0000120
evening rise	3525 Jun 13 13:17	1°537'42		superior conj	3526 May 21 22:40	1° Ⅱ 09'59	
	3525 Jun 29 00:21	0°N		minimum elong	3526 May 21 23:08	1° I I12'31	0°09'22
evening max el	3525 Jul 08 19:58	12° Ω 04'03	24°29'49	behind sun begin	3526 May 21 18:46	0° Ⅱ 49'08	
desc. node	3525 Jul 12 06:57	15° Ω 02'04		behind sun end	3526 May 22 03:30	1° Ⅱ 35'55	
retrograde	3525 Jul 22 17:13	19° Ω 04'59		asc. node	3526 May 22 20:20	3° Ⅱ 06'14	
evening set	3525 Jul 27 16:15	18° Ω 09'47		evening rise	3526 May 29 00:58	16° Ⅱ 24'03	

	3526 Jun 04 19:25	0ಂಣ		evening rise	3527 May 13 10:56	1° Ⅱ 00'38	
evening max el	3526 Jun 20 09:24	22°529'24	22°53'16		3527 May 30 08:23	0°©	
desc. node	3526 Jun 29 03:57	28° 5 20'22		evening max el	3527 Jun 02 05:18	3° 5 06'43	21°20'58
retrograde	3526 Jul 03 17:19	29° © 07'50		retrograde	3527 Jun 14 07:11	9° © 02'28	
evening set	3526 Jul 07 03:50	28°941'57	0.55410.477	desc. node	3527 Jun 16 00:58	8°955'28	
min. Earth dist.	3526 Jul 14 18:09	25°519'41	0.55419 AU	evening set	3527 Jun 16 15:24	8°549'53	2050152
inferior conj	3526 Jul 16 06:24 3526 Jul 15 22:50	24°\$27'24 24°\$38'21		inferior conj	3527 Jun 26 00:43 3527 Jun 25 17:11	4° © 50'44 5° © 01'16	-2°50'52 2°48'26
minimum elong morning rise	3526 Jul 13 22:30 3526 Jul 24 20:07	24 \$38 21 20° \$35'46	4 20 24	minimum elong min. Earth dist.	3527 Jun 26 05:22	4°9344'13	0.54854 AU
direct	3526 Jul 27 18:29	20°915'37		morning rise	3527 Jul 04 19:33	0°954'13	0.54054710
morning max el	3526 Aug 07 19:26	25°923'10	20°44'59	direct	3527 Jul 08 04:36	0°529'29	
C	3526 Aug 12 00:31	$0^{\circ}\Omega$		morning max el	3527 Jul 20 18:27	6° 5 27'02	22°18'20
asc. node	3526 Aug 18 19:36	10° Ω 13'52		asc. node	3527 Aug 05 16:37	29° © 19'37	
morning set	3526 Aug 27 00:26	26° Ω 00′52			3527 Aug 06 01:07	$0^{\circ}\Omega$	
	3526 Aug 28 22:40	0° m		morning set	3527 Aug 11 10:34	10° Ω 51'10	
superior conj	3526 Sep 03 12:09	11° m 31'24	1°44'34	superior conj	3527 Aug 18 14:27	26° Ω 03'39	1°40'08
minimum elong	3526 Sep 03 11:56	11° m 30'21	1°44'34	minimum elong	3527 Aug 18 13:02	25° Ω 56′10	1°40'03
max. Earth dist.	3526 Sep 08 06:31	21°Mp04'14	1.35904 AU		3527 Aug 20 11:27	0° ™	
evening rise	3526 Sep 12 07:42	28° m 48'00		max. Earth dist.	3527 Aug 21 22:36	3°M 02'08	1.34341 AU
	3526 Sep 12 23:14	0ಂ ಹ		evening rise	3527 Aug 26 14:01	12°M 20'20	
desc. node	3526 Sep 25 03:18	20° ≏ 47'08			3527 Sep 05 07:01	0∘ ⊽	
	3526 Oct 01 05:40	0°M,		desc. node	3527 Sep 12 00:18	10° Ω 48'25	
evening max el	3526 Oct 17 22:17	20°M38'35	26°16'49		3527 Sep 26 09:44	0°M	27804100
retrograde	3526 Oct 30 15:38 3526 Nov 05 23:46	27°M49'12 25°M12'58		evening max el	3527 Sep 30 10:54 3527 Oct 13 17:20	4°M12'42 11°M29'42	2/*04.00
evening set min. Earth dist.	3526 Nov 10 04:07	20°M48'35	0.66484 AU	retrograde evening set	3527 Oct 13 17.20 3527 Oct 20 13:17	8°M47'55	
inferior conj	3526 Nov 10 04:07 3526 Nov 11 17:06	18°M55'04		min. Earth dist.	3527 Oct 20 13:17 3527 Oct 24 11:05	4°M59'29	0.65302 AU
minimum elong	3526 Nov 11 17:00	18° M .49'51	1°02'16	inferior conj	3527 Oct 26 12:02	2°M40'57	
asc. node	3526 Nov 14 18:49	15°ML23'18		minimum elong	3527 Oct 26 15:28	2°M31'13	
morning rise	3526 Nov 17 14:20	13°ML06'45			3527 Oct 28 23:28	30° ₹ Ω	
direct	3526 Nov 20 15:42	12°M13'38		morning rise	3527 Nov 01 18:31	27° ≏ 05'18	
morning max el	3526 Nov 27 09:25	15°M56'22	18°43'01	asc. node	3527 Nov 01 15:51	27° ≏ 08'37	
	3526 Dec 07 21:37	0° ∡ ¹		direct	3527 Nov 04 11:54	26° £ 25'14	
morning set	3526 Dec 18 12:11	16° ∡ ³36'55		morning max el	3527 Nov 10 23:55	29° £ 54'50	18°08'59
desc. node	3526 Dec 22 02:36	22° ⋠ 17'52			3527 Nov 11 01:58	0°M	
Earth diet	3526 Dec 27 00:03 3527 Jan 03 03:40	0°る	1 45172 ATT	morning set	3527 Nov 29 09:12	27°M21'53 0°⊀	
max. Earth dist.	3527 Jan 03 03:40	11° る 13'26	1.45173 AU	desc. node	3527 Nov 30 23:42 3527 Dec 08 23:37	12° ∡ ¹58'43	
superior conj	3527 Jan 03 18:42	12° る 12'26	-1°19'25	desc. flode	3327 Dec 08 23.37	12 🗴 30 43	
minimum elong	3527 Jan 03 09:47	11°る37'25		superior conj	3527 Dec 13 22:57	20° ₹ 54'09	-0°33'28
8	3527 Jan 15 01:00	0° ≈		minimum elong	3527 Dec 13 18:43	20° ∡ ³37'24	
evening rise	3527 Jan 19 08:13	6° ≈ 52'33		max. Earth dist.	3527 Dec 16 23:13	25° ∡ ³39'17	1.45115 AU
greatest brilliancy	3527 Jan 26 18:44	18° ≈ 48'38	-0.9m		3527 Dec 19 17:40	ರ°0	
	3527 Feb 03 00:18	0° ℋ		evening rise	3527 Dec 30 07:19	16° る 27'39	
evening max el	3527 Feb 09 17:28	8° ∺ 36′09	18°49'14		3528 Jan 08 01:32	0° ≈	
asc. node	3527 Feb 10 18:04	9°) ₹35′26		greatest brilliancy	3528 Jan 11 23:26	5°≈57'04	-0.7m
retrograde	3527 Feb 16 10:55	12°) €21'59		evening max el	3528 Jan 24 00:36	22°≈06'27	19°36'03
evening set inferior conj	3527 Feb 19 16:51 3527 Feb 25 08:42	11° ∺ 21'31 5° ∺ 40'16	3°31'36	asc. node retrograde	3528 Jan 28 15:06 3528 Jan 31 07:59	25°≈40'21 26°≈19'43	
minimum elong	3527 Feb 25 08:42 3527 Feb 25 07:20	5° X 44'30	3°31'28	evening set	3528 Feb 03 21:17	26 ≈1943 25°≈05'44	
min. Earth dist.	3527 Feb 23 07.20 3527 Feb 27 02:56	3° X 4430 3° X 30'00		inferior conj	3528 Feb 03 21.17 3528 Feb 09 08:34	23 ≈03 44 19°≈09'11	3°11'48
mm. Larm dist.	3527 New 27 02:30 3527 Mar 02 07:29	30°R≈	0.03442710	minimum elong	3528 Feb 09 06:21	19°≈16'28	3°11'22
morning rise	3527 Mar 02 21:24	29° ≈ 28'26		min. Earth dist.	3528 Feb 10 11:57	17° ≈ 39'09	0.66665 AU
direct	3527 Mar 09 11:59	26° ≈ 37'16		morning rise	3528 Feb 14 15:13	12° ≈ 55'44	
	3527 Mar 17 17:16	0° ℋ		direct	3528 Feb 20 18:21	10° ≈ 11'57	
desc. node	3527 Mar 20 01:47	1° ∺ 55'18		morning max el	3528 Mar 04 00:57	17° ≈ 30'33	25°41'38
morning max el	3527 Mar 22 15:39	4° ∺ 21'54	26°51'47	desc. node	3528 Mar 05 22:49	19° ≈ 31'06	
_	3527 Apr 11 03:25	0° Υ			3528 Mar 14 11:58	0° ∀	
morning set	3527 Apr 27 11:26	28° Y 15'35			3528 Apr 03 02:52	0°Υ	
P 4 **	3527 Apr 28 09:10	0° 8	1 2 4 2 5 2	morning set	3528 Apr 09 06:36	10°Υ53'06	1 25002 : **
max. Earth dist.	3527 May 01 19:50	6° 8 47'26	1.34253 AU	max. Earth dist.	3528 Apr 13 01:21	17° Ƴ 56'45	1.35882 AU
superior conj	3527 May 05 23:50	15° 8 19'24	-0°38'05	superior conj	3528 Apr 18 16:52	29° Y 00'17	
minimum elong	3527 May 06 01:50	15° 8 29'47	0°37'42	minimum elong	3528 Apr 18 20:22	29° Y 17′53	1°06'09
asc. node	3527 May 09 17:21	23° 8 09'35			3528 Apr 19 04:44	0° 8	
	3527 May 12 23:19	Π °0		asc. node	3528 Apr 25 14:24	13° 8 04'36	

evening rise	3528 Apr 26 17:07	15° 8 21'02		evening rise	3529 Apr 10 16:59	29° Ƴ 17'18	
evening rise	3528 Apr 20 17:07 3528 May 04 07:06	0°II		evening rise	3529 Apr 10 10:39 3529 Apr 11 01:38	0° 8	
evening max el	3528 May 14 12:36	14° Ⅱ 19'03	20°03'26	asc. node	3529 Apr 12 11:27	2° 8 46'00	
retrograde	3528 May 24 21:53	19° Ⅱ 22'19	20 03 20	evening max el	3529 Apr 27 07:34	26° 8 11'28	19°05'06
evening set	3528 May 26 21:14	19° Ⅱ 12'11		evening max er	3529 May 03 04:31	0°II	17 05 00
desc. node	3528 Jun 01 22:00	16° I 55'37		retrograde	3529 May 06 01:36	0° ∏ 27'12	
inferior conj	3528 Jun 04 21:21	15° I 12'31	-0°52'43	evening set	3529 May 08 03:31	0° П 13'45	
minimum elong	3528 Jun 04 18:54	15° I I16'12		evening sec	3529 May 09 01:06	30°R 8	
min. Earth dist.	3528 Jun 06 18:02	14° I 105'38	0.55247 AU	inferior conj	3529 May 16 09:16	26° 8 00'45	0°58'32
morning rise	3528 Jun 13 14:53	10° Ⅱ 51'47		minimum elong	3529 May 16 11:32	25° 8 56'50	0°57'45
direct	3528 Jun 17 17:15	10° Ⅱ 15'11		min. Earth dist.	3529 May 19 09:23	23° 8 57'18	0.56522 AU
morning max el	3528 Jul 01 10:07	16° Ⅱ 59'34	24°01'05	desc. node	3529 May 19 19:03	23° 8 41'27	
	3528 Jul 11 22:38	0ಂಣ		morning rise	3529 May 24 16:24	21° 8 04'36	
asc. node	3528 Jul 22 13:39	18°950'19		direct	3529 May 29 18:02	20° 8 04'20	
morning set	3528 Jul 25 22:16	25°5946'13		morning max el	3529 Jun 13 00:32	27° 8 24'40	25°39'12
. 8	3528 Jul 27 21:52	$0^{\circ}\Omega$		3	3529 Jun 15 13:04	0°П	
					3529 Jul 05 03:56	0ංම	
superior conj	3528 Aug 01 22:04	10° Ω 51'20	1°29'52	asc. node	3529 Jul 09 10:42	8°938'14	
minimum elong	3528 Aug 01 19:56	10° Ω 39'47	1°29'38	morning set	3529 Jul 10 09:49	10° © 39'36	
max. Earth dist.	3528 Aug 03 23:43	15° Ω 18'32	1.33181 AU	C			
evening rise	3528 Aug 09 07:53	26° Ω 26′04		superior conj	3529 Jul 17 08:43	25°5946'14	1°14'41
•	3528 Aug 11 02:48	0° m)		minimum elong	3529 Jul 17 06:22	25°533'18	1°14'20
desc. node	3528 Aug 28 21:20	0° £ 21'16		max. Earth dist.	3529 Jul 18 07:34	27° 9 51'32	1.32428 AU
	3528 Aug 28 15:29	0∘ ত			3529 Jul 19 07:06	$0^{\circ}\Omega$	
evening max el	3528 Sep 11 22:18	17° ≏ 27'20	27°25'40	evening rise	3529 Jul 24 09:50	10° Ω 54'16	
retrograde	3528 Sep 25 12:57	24° ≏ 44'24			3529 Aug 03 08:36	0° m y	
evening set	3528 Oct 02 16:33	22° ≏ 06'04		desc. node	3529 Aug 15 18:21	19° m 13'13	
min. Earth dist.	3528 Oct 06 08:57	18° ≏ 51'21	0.63773 AU		3529 Aug 25 02:23	0∘ ত	
inferior conj	3528 Oct 08 22:18	16° ≙ 14'21	-3°03'40	evening max el	3529 Aug 25 06:08	0° ჲ 08'54	27°16'29
minimum elong	3528 Oct 09 03:18	16° ≏ 01'30	3°01'57	retrograde	3529 Sep 08 01:59	7° £ 23'25	
morning rise	3528 Oct 15 15:21	10° ≏ 54'54		evening set	3529 Sep 15 05:53	5° ≏ 00'30	
direct	3528 Oct 18 03:14	10° ≏ 24'17		min. Earth dist.	3529 Sep 18 20:25	2° ₽ 12'10	0.61928 AU
asc. node	3528 Oct 18 12:53	10° ≙ 25′05			3529 Sep 21 06:41	30°₽, Т р	
morning max el	3528 Oct 24 16:27	13° ≏ 49'26	17°52'13	inferior conj	3529 Sep 21 20:50	29° m 27'33	-3°59'45
	3528 Nov 04 21:23	0°M₊		minimum elong	3529 Sep 22 02:39	29° m 14'18	3°58'15
morning set	3528 Nov 10 09:01	9°M24'54		morning rise	3529 Sep 29 01:07	24° m 27'33	
				direct	3529 Oct 01 10:12	24° m 03'11	
superior conj	3528 Nov 22 21:48	0° х 33′42	0°13'26	asc. node	3529 Oct 05 09:56	25° m 14'07	
minimum elong	3528 Nov 22 23:15	0° ∡ ³39'40	0°13'13	morning max el	3529 Oct 08 07:57	27° m 32'28	17°53'36
behind sun begin	3528 Nov 22 17:34	0° ∡ 16'25			3529 Oct 10 13:06	0∘ ⊽	
behind sun end	3528 Nov 23 04:55	1° ∡ 02'53		morning set	3529 Oct 24 05:16	22° ≏ 26′08	
	3528 Nov 22 13:34	0° ∡ ¹			3529 Oct 28 09:53	0° M ₊	
desc. node	3528 Nov 24 20:39	3° ∡ ¹44'42					
max. Earth dist.	3528 Nov 28 17:29	9° ∡ 57'53	1.44329 AU	superior conj	3529 Nov 03 23:21	11°M32'00	0°52'18
evening rise	3528 Dec 08 17:32	25° ∡ ³36'52		minimum elong	3529 Nov 04 03:26	11°M49'33	0°51'46
	3528 Dec 11 14:14	ව°0 • • ° 0		max. Earth dist.	3529 Nov 11 07:30	23°M50'39	1.42913 AU
avanir 1	3529 Jan 01 06:46	0°≈ 5°227156	20027110	desc. node	3529 Nov 11 17:42	24°M32'18	
evening max el	3529 Jan 06 02:30		20°37'18	ovonina ria-	3529 Nov 15 02:56	0° ᡘ 4° ᡘ 58'50	
retrograde	3529 Jan 14 06:06	10°≈26'28 10°≈26'07		evening rise	3529 Nov 18 06:30	4°×'58'50 0°る	
asc. node evening set	3529 Jan 14 12:09 3529 Jan 18 04:15	10°≈26'07 8°≈57'56		evening max el	3529 Dec 04 23:06 3529 Dec 19 22:52	0°る 19° る 10'56	210/01/15
inferior conj	3529 Jan 18 04:15 3529 Jan 23 13:10	8°≈3736 2°≈48'49	2°41'44	retrograde	3529 Dec 19 22:52 3529 Dec 29 03:18	19° ろ 10'56 24° ろ 38'52	41 4 743
minimum elong	3529 Jan 23 10:39	2 ≈46 49 2°≈57'25		asc. node	3530 Jan 01 09:11	24 038 32 23° る 41'51	
min. Earth dist.	3529 Jan 24 03:14		0.67474 AU	evening set	3530 Jan 01 09:11 3530 Jan 02 12:00	23° る 54'48	
ann. Earth tist.	3529 Jan 24 03:14 3529 Jan 25 15:25	2°≈0042 30°Rる	0.07474 AU	inferior conj	3530 Jan 02 12:00 3530 Jan 07 20:18	16° る 36'29	2°03'21
morning rise	3529 Jan 28 16:52	26°る35'24		minimum elong	3530 Jan 07 20:18 3530 Jan 07 17:59	16°る44'34	
direct	3529 Feb 03 05:55	24°る07'58		min. Earth dist.	3530 Jan 07 17:39		0.67891 AU
	3529 Feb 13 14:25	0°≈		morning rise	3530 Jan 12 23:48	10 3 2834 10° 3 24'47	0.0,071710
morning max el	3529 Feb 14 09:32	0 ∞ 0°≈47'16	24°16'55	direct	3530 Jan 17 21:59	8°る18'35	
desc. node	3529 Feb 20 19:52	8°≈06'21	2. 1000	morning max el	3530 Jan 27 19:24	14°る10'04	22°47'56
acse. Hour	3529 Mar 08 10:54	0° ∺		desc. node	3530 Feb 07 16:56	14 81004 27° る 24'21	T/ JU
morning set	3529 Mar 22 05:36	22° ¥ 28'16		acce. node	3530 Feb 07 10:30 3530 Feb 09 14:15	27 ⊙ 2 ∓ 21	
max. Earth dist.	3529 Mar 25 22:20	29° \ 00'57	1.37883 AU		3530 Mar 01 09:50	0° ∺	
Zurur dibt.	3529 Mar 26 11:24	0° Υ	1.1.000 110	morning set	3530 Mar 03 02:25	2° ∺ 46'25	
				max. Earth dist.	3530 Mar 07 17:40	10°) 34′03	1.40058 AU
superior conj	3529 Apr 01 22:20	12° Y 02'56	-1°33'18				
minimum elong	3529 Apr 02 02:52	12° Υ 24'43		superior conj	3530 Mar 15 12:03	24°) 17′39	-1°54'34
	-r			- ·· r · · · · · · · · · · · · · · · · ·		, , , , , ,	

minimum elong	3530 Mar 15 16:17	24°)(37'01	1054114	minimum elong	3531 Feb 25 06:21	5°) (38′38	2006/12
minimum eiong	3530 Mar 18 14:20	24 χ3/01 0°Υ	1 34 14	evening rise	3531 Feb 23 06.21 3531 Mar 08 08:56	25° ¥ 26′07	2 00 12
evening rise	3530 Mar 18 14:20 3530 Mar 25 07:33	12° Υ 42'04		evening rise	3531 Mar 10 21:16	23 χ 2007	
asc. node	3530 Mar 30 08:30	22°Υ08'49		asc. node	3531 Mar 17 05:32	11° Υ 06'14	
use. Houe	3530 Apr 03 21:42	0° 8		evening max el	3531 Mar 24 21:47	21° Υ 35'11	18°08'47
evening max el	3530 Apr 10 11:47	8° 8 39'55	18°26'58	retrograde	3531 Mar 31 15:37	25° Υ 00'27	10 00 17
retrograde	3530 Apr 17 23:49	12° 8 22'10	10 2000	evening set	3531 Apr 03 06:21	24° Y 30'02	
evening set	3530 Apr 20 08:10	12° 8 01'29		inferior conj	3531 Apr 09 23:49		3°11'22
inferior conj	3530 Apr 27 18:20	7° 8 29'15	2°21'06	minimum elong	3531 Apr 10 02:38	19° Ƴ 30'19	3°10'54
minimum elong	3530 Apr 27 22:06	7° 8 21'40	2°20'04	min. Earth dist.	3531 Apr 13 06:28	16° Ƴ 34'18	0.60597 AU
min. Earth dist.	3530 May 01 04:52	4° 8 44'14	0.58425 AU	morning rise	3531 Apr 16 20:48	13° Y 46'52	
morning rise	3530 May 05 08:58	2° 8 01'04		direct	3531 Apr 23 12:43	11° Y 37'31	
desc. node	3530 May 06 16:05	1° 8 25'08		desc. node	3531 Apr 23 13:07	11° Y 37'31	
direct	3530 May 11 09:24	0° 8 26'47		morning max el	3531 May 07 19:14	19° Ƴ 31'30	27°42'00
morning max el	3530 May 25 18:50	8° 8 09'28	26°56'48		3531 May 16 17:02	0°8	
	3530 Jun 11 06:22	$\Pi^{\circ}0$			3531 Jun 04 01:38	$\Pi^{\circ}0$	
morning set	3530 Jun 24 19:34	25° Ⅱ 25'55		morning set	3531 Jun 09 01:45	9° Ⅱ 59'20	
asc. node	3530 Jun 26 07:46	28° Ⅲ 37'44		asc. node	3531 Jun 13 04:49	18° Ⅱ 43'58	
	3530 Jun 26 23:07	0ಂತಾ		max. Earth dist.	3531 Jun 15 06:05	23° Ⅱ 12'01	1.32135 AU
superior conj	3530 Jul 01 20:31	10° © 41'57	0°55'17	superior conj	3531 Jun 16 07:44	25° Ⅱ 32'40	0°32'20
minimum elong	3530 Jul 01 18:25	10° © 30'22	0°54'54	minimum elong	3531 Jun 16 06:20	25° Ⅱ 24'58	0°32'02
max. Earth dist.	3530 Jul 01 18:54	10° © 33'03	1.32080 AU		3531 Jun 18 08:22	0 \circ \odot	
evening rise	3530 Jul 08 17:11	25° © 36'42		evening rise	3531 Jun 23 03:46	10° ഇ 26'12	
	3530 Jul 10 19:51	0 ° Ω			3531 Jul 03 03:42	$0^{\circ}\Omega$	
	3530 Jul 28 02:52	0° m y		evening max el	3531 Jul 20 02:44	23° Ω 17'51	25°21'33
desc. node	3530 Aug 02 15:22	7° Mp 07'28		desc. node	3531 Jul 20 12:21	23° Ω 40'35	
evening max el	3530 Aug 07 08:02	12°Mp06'53	26°34'05		3531 Jul 30 22:08	0° m	
retrograde	3530 Aug 21 07:08	19° m 17'54		retrograde	3531 Aug 03 02:16	0° Mp 23′37	
evening set	3530 Aug 28 00:39	17° m 23'41			3531 Aug 06 06:17	30°R Ω	
min. Earth dist.	3530 Aug 31 21:41	14° m 47'51	0.59884 AU	evening set	3531 Aug 08 20:18	29° Ω 07'04	
inferior conj	3530 Sep 04 04:12	12°Mp11'46		min. Earth dist.	3531 Aug 13 14:37	26° Ω 25'53	0.57850 AU
minimum elong	3530 Sep 04 09:01	12° Mp 02'09	4°44'01	inferior conj	3531 Aug 16 17:02	24° Ω 17'38	
morning rise	3530 Sep 11 19:28	7° m 33'44		minimum elong	3531 Aug 16 18:02	24°Ω15'55	5°07'25
direct	3530 Sep 14 04:47	7° Mp 12'55	1001.4100	morning rise	3531 Aug 24 18:06	20° Ω 02'11	
morning max el	3530 Sep 21 19:07	10° mp 55'14	18°14'20	direct	3531 Aug 27 06:51	19° Ω 42'45	10055154
asc. node	3530 Sep 22 07:00	11° m 24'43		morning max el	3531 Sep 04 22:41	23° Ω 48'29	18°55'54
	3530 Oct 04 09:32	0∘ ʊ		asc. node	3531 Sep 09 04:03	28° Ω 41'55	
morning set	3530 Oct 07 16:07	6° ഫ 08'58		marning sat	3531 Sep 10 02:22	0° Т р	
superior conj	3530 Oct 17 01:38	23° ≏ 42'20	1°19'59	morning set	3531 Sep 21 13:14 3531 Sep 26 10:39	20° ™ 21'47 0° ≏	
minimum elong	3530 Oct 17 01:38 3530 Oct 17 05:32	23 ≗ 42 20 24° £ 00'04			3331 Sep 20 10.39	0 ==	
minimum ciong	3530 Oct 17 03:32 3530 Oct 20 14:04	0°M	1 1933	superior conj	3531 Sep 29 23:28	6° £ 50'36	1°36'44
max. Earth dist.	3530 Oct 20 14:04 3530 Oct 24 16:03	7°M04'04	1.41057 AU	minimum elong	3531 Sep 29 25:28 3531 Sep 30 01:53	7° ჲ 02'10	
evening rise	3530 Oct 24 10:05 3530 Oct 29 12:38	15°M09'23	1.41037710	max. Earth dist.	3531 Oct 06 21:04		1.38992 AU
desc. node	3530 Oct 29 14:42	15°M17'45		evening rise	3531 Oct 10 18:12	26° £ 24'52	1.50,,,2110
	3530 Nov 07 23:19	0° ∡ 7			3531 Oct 12 20:52	0°M	
	3530 Nov 30 00:11	0° ට		desc. node	3531 Oct 16 11:42	5°M57'52	
evening max el	3530 Dec 02 14:40	2° ප් 46'21	23°08'44		3531 Nov 01 13:47	0° ∡ ¹	
retrograde	3530 Dec 12 21:53	8° ප 52'38		evening max el	3531 Nov 15 03:52	16° ≯ 26'13	24°28'03
evening set	3530 Dec 17 18:51	6° る 52'23		retrograde	3531 Nov 26 12:40	23° 渘 04'40	
asc. node	3530 Dec 19 06:14	5° る 27'39		evening set	3531 Dec 01 23:14	20° ∡ ¹48′26	
inferior conj	3530 Dec 23 04:04	0° る 28'43	1°17'58	asc. node	3531 Dec 06 03:16	16° ₰ 08'12	
minimum elong	3530 Dec 23 02:22	0° る 34'33	1°17'19	min. Earth dist.	3531 Dec 06 15:11	15° ∡ 28'45	0.67656 AU
min. Earth dist.	3530 Dec 22 19:17	0° る 58'59	0.67945 AU	inferior conj	3531 Dec 07 10:40	14° ₹ 23'34	0°26'46
	3530 Dec 23 12:25	30°₽ ⋌		minimum elong	3531 Dec 07 10:02	14° ₹ 25'44	0°26'30
morning rise	3530 Dec 28 09:47	24° ≯ 20′38		morning rise	3531 Dec 12 20:52	8° ≯ 21'18	
direct	3531 Jan 01 17:33	22° ∡ ³37'15		direct	3531 Dec 16 15:26	6° ₹ 759'45	
morning max el	3531 Jan 10 09:59	27° ∡ ′40'43	21°23'25	morning max el	3531 Dec 24 08:05	11° ∡ 22'55	20°09'37
	3531 Jan 12 14:06	0° ろ		_	3532 Jan 07 12:12	0° ろ	
desc. node	3531 Jan 25 13:57	17° る 12'29		desc. node	3532 Jan 12 10:58	7° る 22'34	
	3531 Feb 03 04:54	0°≈		morning set	3532 Jan 20 15:27	19°₹52'24	
morning set	3531 Feb 10 18:20	11°≈42'54	1 40105 ***	m at the	3532 Jan 27 03:12	0°≈	1 42002 171
max. Earth dist.	3531 Feb 21 23:04	22°≈59'51 0° 米	1.42125 AU	max. Earth dist.	3532 Jan 31 03:07	6~≈21′02	1.43802 AU
	3531 Feb 21 23:04	υπ		superior conj	3532 Feb 05 20:23	15° ≈ 37'15	-2°02'58
superior conj	3531 Feb 25 04:52	5°) 32′10	-2°06'13	minimum elong	3532 Feb 05 20.23 3532 Feb 05 16:24	15 ≈3713 15°≈20'55	
-				٤			

	3532 Feb 14 10:21	0°) €		superior conj	3533 Jan 15 11:15	24° る 38'03	-1°40'39
evening rise	3532 Feb 14 10:21 3532 Feb 18 16:54	7° ₩ 21'00		minimum elong	3533 Jan 15 02:28	24°る03'12	
asc. node	3532 Mar 03 02:33	29° H 30'16		minimum ciong	3533 Jan 18 20:12	0°≈	1 37 33
asc. node	3532 Mar 03 11:02	0°Υ		evening rise	3533 Jan 30 03:24	18°≈20'18	
evening max el	3532 Mar 07 10:20	4° Υ 48'17	18°09'56	evening rise	3533 Feb 06 05:30	0° ∀	
retrograde	3532 Mar 13 20:54	8° Υ 11'47	10 07 50	asc. node	3533 Feb 00 03:30 3533 Feb 17 23:35	17°) 10'51	
evening set	3532 Mar 16 17:24	7° Υ 30'18		evening max el	3533 Feb 17 23:33 3533 Feb 18 22:32	18°) 12'00	18°29'45
inferior conj	3532 Mar 10 17:24 3532 Mar 22 22:06	2° Υ 16'59	3°34'36	retrograde	3533 Feb 16 22:32 3533 Feb 25 11:15	21°) (46'44	10 27 43
minimum elong	3532 Mar 22 23:07		3°34'32	evening set	3533 Feb 28 13:28	20°) 53'28	
minimum ciong	3532 Mar 25 01:32	30° ₹	3 3432	inferior conj	3533 Mar 06 09:05		3°37'18
min. Earth dist.	3532 Mar 25 16:30	29°) (21'17	0.62710 AU	minimum elong	3533 Mar 06 08:28	15° X 21'30	3°37'17
morning rise	3532 Mar 29 03:40	26°) 13'59	0.02710 AC	min. Earth dist.	3533 Mar 08 12:10	12° H 51'23	0.64547 AU
direct	3532 Apr 05 01:18	23°\(\)38'02		morning rise	3533 Mar 12 02:51	9°) 11'44	0.04347 AC
desc. node	3532 Apr 09 10:09	24° H 33'12		direct	3533 Mar 18 21:44	6° ∺ 22'17	
desc. Hode	3532 Apr 17 09:25	24 χ33 12 0° Υ		desc. node	3533 Mar 27 07:11	9° H 44'34	
morning may al	3532 Apr 17 09:23 3532 Apr 19 01:19	• •	27°49'46	morning max el	3533 Mai 27 07:11 3533 Apr 01 10:47	14°) 15'26	27921140
morning max el	-	0° 8	27 49 40	morning max er	•	0° Υ	27 21 49
	3532 May 09 22:25				3533 Apr 14 05:32		
morning set	3532 May 23 02:13	24° 8 12'52		. ,	3533 May 02 13:48	0°8	
F 4 F	3532 May 25 21:48	0° П	1 22610 444	morning set	3533 May 06 18:21	7° 8 58'37	1 22522 444
max. Earth dist.	3532 May 28 13:17	5° Ⅱ 35'43	1.32610 AU	max. Earth dist.	3533 May 11 12:33	17° 8 32'41	1.33522 AU
asc. node	3532 May 30 01:50	8° Ⅱ 52'17					
				superior conj	3533 May 14 21:13	24° 8 34'47	
superior conj	3532 May 30 16:36	10° Ⅱ 12'11	0°06'28	minimum elong	3533 May 14 22:19	24° 8 40'36	0°21'16
minimum elong	3532 May 30 16:17	10° Ⅱ 10′30	0°06'23	asc. node	3533 May 16 22:52	28° 8 59'01	
behind sun begin	3532 May 30 11:29	9° ∏ 44'28			3533 May 17 10:16	$\Pi^{\circ}0$	
behind sun end	3532 May 30 21:06	10° Ⅱ 36'33		evening rise	3533 May 22 02:48	9° ∏ 59'20	
evening rise	3532 Jun 06 15:35	25° Ⅱ 15'45			3533 Jun 01 13:12	0 \circ 60	
	3532 Jun 08 21:52	0		evening max el	3533 Jun 12 07:16	14° © 17'43	22°12'40
	3532 Jun 27 01:53	$0^{\circ}\Omega$		desc. node	3533 Jun 23 06:23	20° © 32'21	
evening max el	3532 Jun 30 16:11	3° Ω 51'35	23°49'11	retrograde	3533 Jun 25 04:19	20°5540'49	
desc. node	3532 Jul 06 09:23	8° Ω 20′27		evening set	3533 Jun 28 01:45	20° © 22'13	
retrograde	3532 Jul 14 09:08	10° Ω 44'45		min. Earth dist.	3533 Jul 06 13:09	16°5643'22	0.55064 AU
evening set	3532 Jul 18 16:44	10° Ω 03'44		inferior conj	3533 Jul 07 09:04	16° © 15'19	-3°48'35
min. Earth dist.	3532 Jul 25 02:25	7° Ω 00'31	0.56132 AU	minimum elong	3533 Jul 07 00:42	16° © 27'07	3°46'23
inferior conj	3532 Jul 27 09:31	5° Ω 37'05	-4°52'38	morning rise	3533 Jul 16 01:30	12° © 24'26	
minimum elong	3532 Jul 27 04:36	5° Ω 44'34	4°52'03	direct	3533 Jul 19 03:40	12° © 03'04	
morning rise	3532 Aug 04 19:02	1° Ω 40′20		morning max el	3533 Jul 30 21:03	17° © 31'01	21°22'58
direct	3532 Aug 07 13:32	1° Ω 20'51			3533 Aug 09 15:11	$0^{\circ}\Omega$	
morning max el	3532 Aug 17 15:42	6° Ω 01'53	19°59'13	asc. node	3533 Aug 12 22:07	5° Ω 37'58	
asc. node	3532 Aug 26 01:05	16° Ω 50′15		morning set	3533 Aug 20 01:45	19° Ω 39'41	
	3532 Sep 02 06:34	0° m		•	3533 Aug 25 00:02	0° m	
morning set	3532 Sep 04 17:16	4° m 54'16			Č		
•	•	-		superior conj	3533 Aug 27 09:35	5° Mp 00'48	1°43'28
superior conj	3532 Sep 12 11:30	20° m 40'47	1°44'01	minimum elong	3533 Aug 27 08:49	4° № 56'47	1°43'27
minimum elong	3532 Sep 12 12:12	20° Mp 44'14	1°44'00	max. Earth dist.	3533 Aug 31 13:16	13° m 29'26	1.35188 AU
	3532 Sep 17 05:47	0∘ ত		evening rise	3533 Sep 04 19:47	21°Mp49'17	
max. Earth dist.	3532 Sep 18 02:27	1° ≏ 38'12	1.36964 AU	•	3533 Sep 09 06:11	0∘ ত	
evening rise	3532 Sep 21 21:54	8° ≏ 41'22		desc. node	3533 Sep 19 05:43	16° ≏ 41'04	
desc. node	3532 Oct 02 08:42	26° ₽ 27'29			3533 Sep 28 09:58	0°M	
	3532 Oct 04 14:43	0°M,		evening max el	3533 Oct 10 04:27	13°M46'48	26°39'28
evening max el	3532 Oct 27 16:08	0° ≯ ¹08'05	25°40'46	retrograde	3533 Oct 23 03:59	21°ML01'38	
Č	3532 Oct 27 12:49	0° √		evening set	3533 Oct 29 17:36	18° M 21'47	
retrograde	3532 Nov 08 22:52	7° ∡ ¹09'46		min. Earth dist.	3533 Nov 02 18:57	14°M13'02	0.66025 AU
evening set	3532 Nov 14 23:28	4° ∡ ³39'26		inferior conj	3533 Nov 04 13:04	12°M07'55	-1°28'27
0 1 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	3532 Nov 19 06:11	30°RM		minimum elong	3533 Nov 04 15:30	12°M00'42	
min. Earth dist.	3532 Nov 19 07:50	29°M54'48	0.67017 AU	asc. node	3533 Nov 08 21:20	7° M 34'03	1 2/2/
inferior conj	3532 Nov 20 14:19	28°M17'46		morning rise	3533 Nov 10 14:06	6°M24'54	
minimum elong	3532 Nov 20 15:05	28°M15'21	0°28'49	direct	3533 Nov 10 14:00	5°M37'56	
asc. node	3532 Nov 20 13:03 3532 Nov 22 00:17	26°M31'29	J 20 77	morning max el	3533 Nov 13 11:43 3533 Nov 20 02:14	9°M13'55	18°26'30
morning rise	3532 Nov 26 07:01	20 M23'48		morning max ci	3533 Nov 20 02.14 3533 Dec 04 16:55	9 IIC13 33	10 20 30
direct	3532 Nov 29 14:05	21°M21'23		morning set	3533 Dec 04 16.53 3533 Dec 09 21:53	0 x . 8° x 21'09	
			19°10'06	desc. node		8 x ·21 09 18° x 24'56	
morning max el	3532 Dec 06 14:04	25° M .15'31 0° ∡ 7	19 10 00	uese. Houe	3533 Dec 16 05:02	18° x '2436	
daga mada	3532 Dec 10 16:10				3533 Dec 23 12:57	v O	
desc. node	3532 Dec 29 08:00	27° 🖈 48'20		aumari '	2522 D 25 12 20	3° ට 10'41	1000140
morning set	3532 Dec 29 18:02	28° ₹ 27'19		superior conj	3533 Dec 25 13:30		
may Eth L'	3532 Dec 30 17:52	0°る 20° ろ 22206	1 44076 411	minimum elong	3533 Dec 25 06:00	2°₹41'18	
max. Earth dist.	3533 Jan 12 18:29	20 022 06	1.44876 AU	max. Earth dist.	3533 Dec 26 13:01	4 7042 39	1.45236 AU

avanina riaa	2524 Ion 10 14:27	28° る 23'06		gunariar aani	2524 Dag 04 22:56	12° ∡ 13'07	0912104
evening rise	3534 Jan 10 14:37			superior conj	3534 Dec 04 23:56		
	3534 Jan 11 15:10 3534 Jan 20 13:27	0° ≈ 14° ≈ 02'41	0.0	minimum elong behind sun begin	3534 Dec 04 22:21	12° х 06'45 11° х 40'55	0°12'51
greatest brilliancy		0° \	-0.8m	2	3534 Dec 04 15:54		
	3534 Jan 31 19:11	0° X 1° ¥ 40'47	10007111	behind sun end	3534 Dec 05 04:48	12° ₹ 32'34	1 44050 411
evening max el	3534 Feb 02 08:01		19°07'11	max. Earth dist.	3534 Dec 09 07:56	19° ₹ 06'40	1.44859 AU
asc. node	3534 Feb 04 20:37	3° ¥ 54'58			3534 Dec 16 06:51	0°る 70 ろ 43136	
retrograde	3534 Feb 09 06:45	5°) € 37'39		evening rise	3534 Dec 21 06:40	7° る 43'26	0.6
evening set	3534 Feb 12 15:33	4°) 31′40		greatest brilliancy	3535 Jan 04 13:05	29° る 23'02	-0.6m
	3534 Feb 17 04:53	30° R ≈			3535 Jan 04 23:07	0° ≈	
inferior conj	3534 Feb 18 05:10	28° ≈ 43'31	3°24'38	evening max el	3535 Jan 16 13:06	15° ≈ 12'25	20°00'29
minimum elong	3534 Feb 18 03:22	28° ≈ 49'14	3°24'22	asc. node	3535 Jan 22 17:40	19° ≈ 28'29	
min. Earth dist.	3534 Feb 19 16:56	26° ≈ 49'43	0.66009 AU	retrograde	3535 Jan 24 04:33	19° ≈ 40′00	
morning rise	3534 Feb 23 14:51	22° ≈ 30′27		evening set	3535 Jan 27 21:19	18° ≈ 20′12	
direct	3534 Mar 02 00:53	19° ≈ 41′04		inferior conj	3535 Feb 02 07:23	12° ≈ 18′07	3°00'11
desc. node	3534 Mar 14 04:14	26° ≈ 36′13		minimum elong	3535 Feb 02 04:58	12° ≈ 26′11	2°59'38
morning max el	3534 Mar 14 20:45	27° ≈ 17'14	26°24'22	min. Earth dist.	3535 Feb 03 05:00	11° ≈ 05'35	0.67062 AU
	3534 Mar 17 10:01	0° ∀		morning rise	3535 Feb 07 12:24	6° ≈ 04'19	
	3534 Apr 07 21:25	0° Y		direct	3535 Feb 13 09:50	3° ≈ 26'19	
morning set	3534 Apr 19 22:29	21° Y ′04'57		morning max el	3535 Feb 25 05:33	10° ≈ 30'07	25°06'37
max. Earth dist.	3534 Apr 24 00:34	28° Ƴ 56'10	1.34891 AU	desc. node	3535 Mar 01 01:18	14°≈40′05	
	3534 Apr 24 13:31	0°8			3535 Mar 12 17:39	0° ∀	
	-				3535 Mar 31 13:08	0° Υ	
superior conj	3534 Apr 28 19:16	8° 8 32'52	-0°50'22	morning set	3535 Apr 02 09:49	3° Ƴ 18'10	
minimum elong	3534 Apr 28 21:55	8° 8 46'30		max. Earth dist.	3535 Apr 06 01:19	9° Ƴ 57'26	1.36699 AU
asc. node	3534 May 03 19:54	18° 8 59'22				,	
evening rise	3534 May 06 11:25	24° 8 29'40		superior conj	3535 Apr 12 07:51	21° Υ 58'49	-1°18'26
evening rise	3534 May 09 04:14	0°II		minimum elong	3535 Apr 12 07:51	22° Υ 18'45	
evening max el	3534 May 25 07:36	25° Ⅱ 07'48	20°45'47	minimum ciong	3535 Apr 12 11:35 3535 Apr 16 08:14	0° 8	1 1/40
evening max er	3534 Jun 01 15:39	0°95	20 43 47	evening rise	3535 Apr 10 08:14 3535 Apr 20 15:14	8° 8 40'27	
ratra ara da	3534 Jun 05 17:16	0°9541'57		asc. node	3535 Apr 20 15:14 3535 Apr 20 16:57	8° 8 49'08	
retrograde	3534 Jun 03 17.16 3534 Jun 07 19:24	0°931'28		asc. node	3535 Apr 20 10.37 3535 May 02 10:14	8 O 4908 0° I I	
evening set					•	0° П 6° П 37'41	10027100
	3534 Jun 09 23:18	30°RII		evening max el	3535 May 07 20:10		19°36'09
desc. node	3534 Jun 10 03:26	29° Ⅱ 56'41	2002102	retrograde	3535 May 17 11:50	11° I I18'48	
inferior conj	3534 Jun 17 02:31	26° Ⅱ 34'03		evening set	3535 May 19 11:25	11° Ⅱ 07'50	
minimum elong	3534 Jun 16 20:49	26° Ⅱ 42'11	2°00'01	inferior conj	3535 May 28 04:23	7° Ⅱ 04'07	
min. Earth dist.	3534 Jun 18 01:09	26° Ⅱ 01'42	0.54899 AU	minimum elong	3535 May 28 04:15	7° Ⅱ 04'19	0°02'49
morning rise	3534 Jun 25 21:46	22° Ⅱ 28'59		transit middle	3535 May 28 04:15	7° Ⅱ 04'19	0°02'49
direct	3534 Jun 29 12:59	22° Ⅱ 00'31		transit begin	3535 May 28 00:24	7° Ⅱ 10′25	
morning max el	3534 Jul 12 16:26	28° Ⅱ 19'41	23°01'41	transit end	3535 May 28 08:07	6° Ⅱ 58'13	
	3534 Jul 14 09:02	0 \circ \odot		desc. node	3535 May 28 00:29	7° Ⅱ 10'17	
asc. node	3534 Jul 30 19:10	24° © 55'07		min. Earth dist.	3535 May 30 15:00	5° Ⅱ 31'48	0.55697 AU
	3534 Aug 02 08:14	$0 {\circ} \Omega$		morning rise	3535 Jun 05 18:30	2° Ⅱ 28'39	
morning set	3534 Aug 04 12:44	4° Ω 32'22		direct	3535 Jun 10 06:37	1° Ⅱ 43'12	
				morning max el	3535 Jun 24 06:39	8° Ⅱ 45′00	24°44'18
superior conj	3534 Aug 11 14:28	19° Ω 40'40	1°36'26		3535 Jul 09 23:46	0 \circ \odot	
minimum elong	3534 Aug 11 12:41	19° £ 31′08	1°36'18	asc. node	3535 Jul 17 16:13	14° © 33'45	
max. Earth dist.	3534 Aug 14 08:58	25° Ω 32'51	1.33790 AU	morning set	3535 Jul 20 00:31	19° 5 26'55	
	3534 Aug 16 12:31	0° m y			3535 Jul 24 21:47	$0^{\circ}\Omega$	
evening rise	3534 Aug 19 07:27	5° m 37'06					
	3534 Sep 01 21:52	0∘ 亚		superior conj	3535 Jul 26 23:35	4° Ω 32'01	1°23'59
desc. node	3534 Sep 06 02:44	6° ₽ 31'31		minimum elong	3535 Jul 26 21:18	4° Ω 19'33	1°23'42
evening max el	3534 Sep 22 16:41	27° ₽ 14'01	27°16'46	max. Earth dist.	3535 Jul 28 13:13	7° Ω 56′27	1.32809 AU
Č	3534 Sep 25 20:21	0° M		evening rise	3535 Aug 03 05:07	19° Ω 53'34	
retrograde	3534 Oct 06 03:30	4°MJ32'34		Č	3535 Aug 08 08:19	0° m)	
evening set	3534 Oct 13 03:13	1°M50'52		desc. node	3535 Aug 23 23:46	25° m) 48'38	
e venning see	3534 Oct 15 06:01	30°R ≏		dese. node	3535 Aug 27 01:53	0° ⊽	
min. Earth dist.	3534 Oct 16 22:24		0.64682 AU	evening max el	3535 Nug 27 01:33 3535 Sep 05 03:03	0 — 10° ≏ 16'48	27°25'50
inferior conj	3534 Oct 10 22:24 3534 Oct 19 04:41	25° ⊆ 49'34		retrograde	3535 Sep	17° ⊆ 32'52	21 23 37
minimum elong	3534 Oct 19 04.41 3534 Oct 19 08:50	25° £ 49'34 25° £ 38'16		evening set	3535 Sep 18 20.27 3535 Sep 26 01:04	17 ≗ 32 32 14° £ 59'51	
	3534 Oct 19 08:30 3534 Oct 25 15:32	23° 2 238°16 20° 2 20′27	2 21 30	min. Earth dist.	-		0.63013 AU
morning rise					3535 Sep 29 16:10	11° £ 57'17	
asc. node	3534 Oct 26 18:23	19° £ 56'39		inferior conj	3535 Oct 02 10:23	9° £ 15'37	
direct	3534 Oct 28 06:09	19° £ 44′59	17050142	minimum elong	3535 Oct 02 15:53	9° £ 02'10	5°26'39
morning max el	3534 Nov 03 18:01	23° № 12'05	17°59'43	morning rise	3535 Oct 09 08:08	4° £ 03'44	
	3534 Nov 09 03:49	0°M,		direct	3535 Oct 11 18:26	3° ₽ 36'09	
morning set	3534 Nov 21 07:04	19° M .41'57		asc. node	3535 Oct 13 15:27	3° ≙ 53'01	
_	3534 Nov 27 11:31	0° ∡ ¹		morning max el	3535 Oct 18 10:26	7° ≙ 02'21	17°50'30
desc. node	3534 Dec 03 02:03	9° ∡ ′08'41			3535 Nov 02 10:21	0° M ₊	

morning set	3535 Nov 03 16:23	2°M12'10			3536 Oct 24 17:21	0° M	
superior conj	3535 Nov 15 09:48	22°M25'03	0°31'11	superior conj	3536 Oct 26 22:24	3°M55'20	1°05'27
minimum elong	3535 Nov 15 12:48	22°M37'34	0°30'47	minimum elong	3536 Oct 27 02:40	4°M14'04	1°04'56
desc. node	3535 Nov 19 23:05	29°M55'34		max. Earth dist.	3536 Nov 03 12:51	16°M55'10	1.42171 AU
	3535 Nov 20 00:10	0° ∡ 7		desc. node	3536 Nov 05 20:06	20°M42'31	
max. Earth dist.	3535 Nov 22 00:37	3° х 16′02	1.43795 AU	evening rise	3536 Nov 09 10:55	26°M32'17	
evening rise	3535 Nov 30 15:59	16° ₹ '53'04			3536 Nov 11 15:30	0° ∡ ¹	
	3535 Dec 09 07:04	8°0			3536 Dec 02 02:46	8°0	
evening max el	3535 Dec 30 12:45	28° る 45'00	21°07'02	evening max el	3536 Dec 12 07:03	12° る 18'45	22°22'52
	3535 Dec 31 19:28	0° ≈		retrograde	3536 Dec 21 22:32	18° る 02'53	
retrograde	3536 Jan 08 02:22	3° ≈ 49'34		asc. node	3536 Dec 26 11:45	16° ප 13'02	
asc. node	3536 Jan 09 14:43	3° ≈ 36'59		evening set	3536 Dec 26 12:22	16° ප 11'46	
evening set	3536 Jan 12 04:50	2° ≈ 14'35		inferior conj	3536 Dec 31 20:54	9° る 50'45	1°44'52
	3536 Jan 14 11:56	30°Ŗる		minimum elong	3536 Dec 31 18:47	9° る 58'04	1°44'06
inferior conj	3536 Jan 17 13:18	26° る 01'25	2°26'23	min. Earth dist.	3536 Dec 31 18:17	9° る 59'49	0.67961 AU
minimum elong	3536 Jan 17 10:48	26° る 10'00	2°25'37	morning rise	3537 Jan 06 01:05	3° る 40'37	
min. Earth dist.	3536 Jan 17 22:13	25° る 30'39	0.67704 AU	direct	3537 Jan 10 17:03	1° る 44'13	
morning rise	3536 Jan 22 16:36	19°る48'38		morning max el	3537 Jan 20 01:35	7°る14'10	22°11'03
direct	3536 Jan 27 23:29	17° る 29'38	22020150	desc. node	3537 Feb 01 19:21	23° る 06'46	
morning max el	3536 Feb 07 14:06		23°38'59		3537 Feb 06 15:00	0° ≈	
	3536 Feb 13 02:05	0°≈		morning set	3537 Feb 22 06:44	24°≈04'28	
desc. node	3536 Feb 15 22:20	3°≈35'08 0°) €		E d Ed	3537 Feb 25 21:33	0° ∺ 3° ∺ 06'29	1 40070 411
morning set	3536 Mar 05 03:45 3536 Mar 13 22:23	0°π 14°₩22'20		max. Earth dist.	3537 Feb 27 18:12	3° \(\pi\)00'29	1.40970 AU
max. Earth dist.	3536 Mar 17 20:36	21° X 10'03	1.38808 AU	superior conj	3537 Mar 07 12:43	16°) €33'46	2000/58
max. Earth dist.	3536 Mar 22 18:19	0° Υ	1.38808 AU	minimum elong	3537 Mar 07 12:43 3537 Mar 07 16:09	16° X 49'06	
	3330 IVIAI 22 10.17	V I		minimum clong	3537 Mar 14 21:30	0° Υ	2 00 40
superior conj	3536 Mar 25 07:15	4° Υ 43'15	-1°43'11	evening rise	3537 Mar 17 21:02	5° Υ 33'34	
minimum elong	3536 Mar 25 11:54	5°Υ05'03	1°42'41	asc. node	3537 Mar 24 11:03	17° Ƴ 36'40	
evening rise	3536 Apr 03 11:34	22° Υ 24'44		use. Hous	3537 Apr 01 17:24	0°8	
asc. node	3536 Apr 06 14:01	28° Y 23'41		evening max el	3537 Apr 03 02:35	1° 8 27'56	18°16'46
	3536 Apr 07 10:22	0°8		retrograde	3537 Apr 10 05:30	5° 8 01'19	
evening max el	3536 Apr 19 19:33	18° 8 47'12	18°46'23	evening set	3537 Apr 12 16:37	4° 8 36'42	
retrograde	3536 Apr 27 23:08	22° 8 46'23		inferior conj	3537 Apr 19 19:11	29° Y 55'13	2°46'08
evening set	3536 Apr 30 03:51	22° 8 30'06		minimum elong	3537 Apr 19 22:44	29° Y 47'33	2°45'19
inferior conj	3536 May 08 01:04	18° 8 09'09	1°37'36		3537 Apr 19 16:57	30° ₹Ƴ	
minimum elong	3536 May 08 04:22	18° 8 03'04	1°36'33	min. Earth dist.	3537 Apr 23 05:16	26° Ƴ 59'49	0.59334 AU
min. Earth dist.	3536 May 11 07:38	15° 8 45'46	0.57281 AU	morning rise	3537 Apr 27 02:11	24° Y 16'23	
desc. node	3536 May 13 21:31	14° 8 05'45		desc. node	3537 Apr 30 18:33	22° Y 46′14	
morning rise	3536 May 16 01:42	12° 8 58'49		direct	3537 May 03 10:06	22° Y 27'06	
direct	3536 May 21 13:46	11° 8 44'56			3537 May 17 12:46	0°8	
morning max el	3536 Jun 04 22:03	19° 8 15'23	26°15'34	morning max el	3537 May 17 19:02	0° 8 15'16	27°20'33
	3536 Jun 14 00:08	0° I I			3537 Jun 08 00:17	0°II	
. ,	3536 Jul 01 09:50	0°95		morning set	3537 Jun 17 20:00	19° Ⅱ 00'19	
morning set asc. node	3536 Jul 03 11:32 3536 Jul 03 13:15	4°©18'31 4°©27'38		asc. node	3537 Jun 20 10:18 3537 Jun 22 22:57	24°∏30'32 0°€	
asc. Houe	5550 Jul 05 15.15	4 502/36			3337 Juli 22 22.37	0 3	
superior conj	3536 Jul 10 10:57	19° © 28'26	1°06'57	superior conj	3537 Jun 24 22:42	4°922'35	0°45'58
minimum elong	3536 Jul 10 08:39	19° © 15'45	1°06'33	minimum elong	3537 Jun 24 20:51	4°912'21	0°45'35
max. Earth dist.	3536 Jul 10 23:13	20°535'56	1.32236 AU	max. Earth dist.	3537 Jun 24 11:08	3°518'51	1.32058 AU
	3536 Jul 15 06:48	0° Ω		evening rise	3537 Jul 01 18:41	19° © 15'44	
evening rise	3536 Jul 17 09:43	4° Ω 29'32		C	3537 Jul 07 01:06	$0^{\circ}\Omega$	
-	3536 Jul 31 01:08	0° m			3537 Jul 26 05:26	0° m	
desc. node	3536 Aug 09 20:48	14° m 18'48		desc. node	3537 Jul 27 17:48	1° m 41'44	
evening max el	3536 Aug 17 08:51	22°M/41'53	27°02'32	evening max el	3537 Jul 30 07:31	4° m 18'44	26°06'19
retrograde	3536 Aug 31 05:58	29° m 53'59		retrograde	3537 Aug 13 06:55	11° m 27'54	
evening set	3536 Sep 07 07:04	27° Mp 41'58		evening set	3537 Aug 19 16:23	9° m 48'43	
min. Earth dist.	3536 Sep 10 23:07	25° Mp 00'58	0.61078 AU	min. Earth dist.	3537 Aug 23 20:08	7° m 13'14	
inferior conj	3536 Sep 14 02:56	22° Mp 18'03		inferior conj	3537 Aug 27 02:42	4° ™ 46′29	
minimum elong	3536 Sep 14 08:37	22° m 05'47	4°19'31	minimum elong	3537 Aug 27 06:16	4° ™ 39'47	4°57'33
morning rise	3536 Sep 21 11:56	17° Tp 26'55		morning rise	3537 Sep 03 22:21	0° m/18'28	
direct	3536 Sep 23 20:54	17° Mp 04'13		T	3537 Sep 05 16:37	30°R€	
asc. node	3536 Sep 29 12:29	19° Mp 18'30	17050157	direct	3537 Sep 06 08:52	29° Ω 58′25	
morning max el	3536 Oct 01 00:26	20° Mp 37'40	17°59'57	morning m1	3537 Sep 07 01:01	0°Mp 3°m-48'40	10020127
morning set	3536 Oct 08 01:05 3536 Oct 16 19:28	0° ჲ 15° ჲ 33'04		morning max el asc. node	3537 Sep 14 08:45 3537 Sep 16 09:31	3° m/48'49 5° m/58'54	10 29 21
morning set	5550 OCI 10 17.28	15 == 33 04		ase. Houc	5557 BCP 10 07.51	J 11/130 34	

morning set	3537 Sep 30 11:06 3537 Sep 30 17:26	29° ™ 29'31 0° ≏		morning set	3538 Sep 14 11:27	13° m 51'03	
	3337 Sep 30 17.20	~		superior conj	3538 Sep 22 14:08	29° m 59'49	1°40'52
superior conj	3537 Oct 09 09:41	16° £ 32'16	1°28'21	minimum elong	3538 Sep 22 15:48	0° ರ 08'00	1°40'47
minimum elong	3537 Oct 09 13:03	16° ≏ 47'51	1°28'02	Č	3538 Sep 22 14:10	0∘ ত	
	3537 Oct 16 21:40	0°M,		max. Earth dist.	3538 Sep 28 23:34	12° ≏ 05'45	1.38105 AU
max. Earth dist.	3537 Oct 16 19:38	29° ≏ 51'12	1.40187 AU	evening rise	3538 Oct 02 18:00	18° ≏ 51'08	
evening rise	3537 Oct 21 02:41	7° M 09'06		•	3538 Oct 09 08:01	0°M	
desc. node	3537 Oct 23 17:06	11°M26'00		desc. node	3538 Oct 10 14:06	2°Mo1'58	
	3537 Nov 04 17:34	0° ∡ ¹			3538 Oct 29 23:03	0° ∡ ¹	
evening max el	3537 Nov 24 21:17	25° ₹ 55'11	23°42'48	evening max el	3538 Nov 07 09:42	9° ∡ ³35'24	25°00'18
	3537 Nov 29 15:27	0°ರ		retrograde	3538 Nov 19 04:46	16° ∡ ¹25'51	
retrograde	3537 Dec 05 15:41	2° ප 16'33		evening set	3538 Nov 24 21:13	14° ∡ ¹03'17	
evening set	3537 Dec 10 18:23	0° ට 09'07		min. Earth dist.	3538 Nov 29 09:49	8° ₹ ¹58'10	0.67417 AU
	3537 Dec 10 22:37	30°₽ ⋌ 7		inferior conj	3538 Nov 30 09:56	7° ∡ ³38'56	0°03'32
asc. node	3537 Dec 13 08:46	27° ∡ ¹26'37		minimum elong	3538 Nov 30 09:50	7° ∡ ³39'14	0°03'31
min. Earth dist.	3537 Dec 15 14:56	24° ₹ 30′02	0.67859 AU	transit middle	3538 Nov 30 09:50	7° ∡ ³39'14	0°03'31
inferior conj	3537 Dec 16 04:22	23° ∡ ⁴44'13	0°56'54	transit begin	3538 Nov 30 07:08	7° ∡ ¹48'08	
minimum elong	3537 Dec 16 03:04	23° х ⁴48'38	0°56'23	transit end	3538 Nov 30 12:33	7° ∡ ³30'21	
morning rise	3537 Dec 21 11:45	17° ∡ 38′27		asc. node	3538 Nov 30 05:48	7° ∡ 752'31	
direct	3537 Dec 25 13:36	16° ₰ 04'51		morning rise	3538 Dec 05 22:39	1° ∡ ³39'44	
morning max el	3538 Jan 02 19:19	20° х 50′09	20°50'32	direct	3538 Dec 09 11:59	0° ∡ ¹26'51	
	3538 Jan 10 10:45	0°ರ		morning max el	3538 Dec 16 20:50	4° ∡ ³36'46	19°42'25
desc. node	3538 Jan 19 16:21	13° る 04'56		greatest brilliancy	3538 Dec 30 00:54	22° 渘 ¹00'30	-0.7m
	3538 Jan 30 20:45	0° ≈			3539 Jan 04 08:24	0°ප	
morning set	3538 Feb 01 12:30	2° ≈ 34'31		desc. node	3539 Jan 06 13:21	3° る 21'53	
max. Earth dist.	3538 Feb 09 22:19	15° ≈ 57'01	1.42892 AU	morning set	3539 Jan 11 08:33	10° ප් 44'34	
				max. Earth dist.	3539 Jan 23 09:33	29° る 34'30	1.44334 AU
superior conj	3538 Feb 16 19:09	27° ≈ 19′13	-2°06'59		3539 Jan 23 15:58	0° ≈	
minimum elong	3538 Feb 16 18:34	27° ≈ 16'47	2°06'59				
	3538 Feb 18 09:04	0° ℋ		superior conj	3539 Jan 27 23:31	6° ≈ 54'23	-1°55'57
evening rise	3538 Feb 28 15:37	17° ¥ 58'10		minimum elong	3539 Jan 27 17:03	6° ≈ 28'19	1°55'33
	3538 Mar 07 11:24	0 ° $\mathbf{\gamma}$		evening rise	3539 Feb 10 14:49	29° ≈ 29'12	
asc. node	3538 Mar 11 08:05	6° Y 21′16			3539 Feb 10 22:06	0° ℋ	
evening max el	3538 Mar 17 14:01	14° Ƴ 31'44	18°06'56	asc. node	3539 Feb 26 05:07	24°) €28'00	
retrograde	3538 Mar 24 03:44	17° Ƴ 54'53		evening max el	3539 Mar 01 02:44	27°) 49'49	18°16'13
evening set	3538 Mar 26 20:49	17° Y 20′03			3539 Mar 03 17:14	$0^{\circ}\mathbf{\Upsilon}$	
inferior conj	3538 Apr 02 08:22	12° Y 18'14	3°24'06	retrograde	3539 Mar 07 13:15	1° Y 16′35	
minimum elong	3538 Apr 02 10:28	12° Y 13′03	3°23'51	evening set	3539 Mar 10 12:05	0° Ƴ 30'18	
min. Earth dist.	3538 Apr 05 10:30	9° Ƴ 15'37	0.61511 AU		3539 Mar 11 08:51	30° ₹	
morning rise	3538 Apr 08 22:22	6° Y 21′22		inferior conj	3539 Mar 16 12:32	25°) €09'12	
direct	3538 Apr 15 17:43	3° Y 59'14		minimum elong	3539 Mar 16 12:49	25° ₩ 08'25	3°37'53
desc. node	3538 Apr 17 15:34	4° Υ 09'44		min. Earth dist.	3539 Mar 19 00:44	22° ∺ 22'09	0.63533 AU
morning max el	3538 Apr 29 22:19	11° Y 56'35	27°49'54	morning rise	3539 Mar 22 12:36	19°) €02'40	
	3538 May 14 04:22	0°8		direct	3539 Mar 29 10:07	16° 米 18'50	
	3538 May 31 07:19	0°II		desc. node	3539 Apr 04 12:35	18°) €06'41	
morning set	3538 Jun 02 00:04	3° Ⅱ 26′23		morning max el	3539 Apr 12 06:03	24°) € 16′24	27°41'52
asc. node	3538 Jun 07 07:20	14° Ⅱ 38'12	1 22206 1 11		3539 Apr 17 10:08	0° Υ	
max. Earth dist.	3538 Jun 07 21:03	15° Ⅱ 52'32	1.32286 AU		3539 May 07 13:16	0° 8	
	2520 1 00 00 00	100 110112	0021141	morning set	3539 May 16 21:22	17° 8 29'08	1 22020 444
superior conj	3538 Jun 09 09:09	19° Ⅱ 09'13		max. Earth dist.	3539 May 22 01:06	28° 8 04'45	1.32938 AU
minimum elong	3538 Jun 09 08:10	19° Ⅱ 03'50	0°21'27		3539 May 22 22:53	Π $^{\circ}$ 0	
	3538 Jun 14 08:15	0°99			2520.16 24 16 20	20 T 42122	0005112
evening rise	3538 Jun 16 06:00	4°905'42		superior conj	3539 May 24 16:29	3° ∏ 42′23	
·	3538 Jun 30 01:38	0°N	24042141	minimum elong	3539 May 24 16:45	3° Ⅱ 43'45	0~05.10
evening max el	3538 Jul 11 23:11	15° Ω 10'22	24°43'41	behind sun begin	3539 May 24 11:41	3° Ⅱ 16'36	
desc. node	3538 Jul 14 14:50	17° Ω 30'43		behind sun end	3539 May 24 21:48	4°Ⅲ10'56 4°Ⅲ46'23	
retrograde	3538 Jul 25 21:27 3538 Jul 31 01:38	22° Ω 13'08 21° Ω 12'37		asc. node	3539 May 25 04:23	4°Щ46′23 18°Щ53′15	
evening set min. Earth dist.	3538 Jul 31 01:38 3538 Aug 05 10:29	$18^{\circ}\Omega 23'40$	0.57061 AU	evening rise	3539 May 31 17:48 3539 Jun 06 04:44	0 ₆ 2 18 ₂ П23.12	
inferior conj	3538 Aug 05 10:29 3538 Aug 08 06:49	16° Ω 32'28		evening max el	3539 Jun 06 04:44 3539 Jun 23 12:31	25° © 37'36	23°07'49
minimum elong	3538 Aug 08 05:22	16° Ω 34'50	5°06'36	evening max ci	3539 Jun 29 02:35	23 €3736 0° Ω	45 0140
morning rise	3538 Aug 08 05:22 3538 Aug 16 11:41	16°8€34'30 12°Ω26'08	5 00 30	desc. node	3539 Jul 29 02:35 3539 Jul 01 11:51	0°8ℓ 1°Ω12'00	
direct	3538 Aug 16 11:41 3538 Aug 19 02:27	$12^{\circ} \Omega 2608$ $12^{\circ} \Omega 07'00$		retrograde	3539 Jul 01 11:31 3539 Jul 06 23:19	2° Ω 20'19	
morning max el	3538 Aug 19 02:27 3538 Aug 28 08:12	12° 82 0700 16° Ω 26'19	19°20'13	evening set	3539 Jul 06 23:19 3539 Jul 10 15:04	2° 8ℓ 20 19 1° Ω 51'05	
asc. node	3538 Aug 28 08.12 3538 Sep 03 06:33	23° Ω 39'12	1/ 2013	evening set	3539 Jul 10 13:04 3539 Jul 15 07:11	30°RS	
use. Houe	3538 Sep 03 00:35 3538 Sep 07 04:35	0°Mp		min. Earth dist.	3539 Jul 13 07:11 3539 Jul 17 21:50	28°934'10	0.55578 AU
	ээээ э с р от о т .ээ	עייי		mm. Darur dist.	555, 5ai 1, 21.50	20 -07 10	3.33376 AU

inferior conj	3539 Jul 19 15:23	27° © 33'38	1021115	evening set	3540 Jun 19 01:21	12° © 00'34	
minimum elong	3539 Jul 19 13:23 3539 Jul 19 08:22	27°933'54		inferior conj	3540 Jun 28 10:40	7°959'53	2007!16
morning rise	3539 Jul 19 08:22 3539 Jul 28 04:02	27 \$343 34 23°\$41'03	4 30 28	minimum elong	3540 Jun 28 02:42	8°911'01	3°04'47
direct	3539 Jul 28 04:02 3539 Jul 31 01:22	23°921'05		min. Earth dist.	3540 Jun 28 02:42 3540 Jun 28 08:47	8°902'30	0.54877 AU
	3539 Jul 31 01:22 3539 Aug 10 20:19	23 \$21 03 28°\$21'36	20022120		3540 Jul	4°905'37	0.54677 AU
morning max el	-	28 3 21 36	20 32 28	morning rise direct	3540 Jul 10 12:10	3°941'55	
aca mada	3539 Aug 12 11:49	12° Ω 05'56			3540 Jul 22 20:51	9° 9 31'33	22002126
asc. node	3539 Aug 21 03:35	28° Ω 30'08		morning max el	3540 Jul 22 20.51 3540 Aug 06 10:09	9 £ 031 33	22 03 30
morning set	3539 Aug 29 17:42 3539 Aug 30 11:11	0°m)		asc. node	3540 Aug 07 00:39	1° Ω 07'15	
	3339 Aug 30 11.11	U IIĮ			=	1 300/13 13°Ω19'27	
superior conj	3539 Sep 06 06:57	14° m 04'22	1°44'39	morning set	3540 Aug 13 03:30	13 661927	
minimum elong	3539 Sep 06 06:58	14° My 04'29	1°44'39	superior conj	3540 Aug 20 08:16	28° Ω 33'41	1°41'12
max. Earth dist.	3539 Sep 06 06.38 3539 Sep 11 06:40	23° Mp 59'54	1.36171 AU	1 3	•	28° Ω 27'03	1°41'12
max. Earm dist.	=	0° ي 0° ي	1.301/1 AU	minimum elong	3540 Aug 20 07:00	0° m)	1 41 08
evening rise	3539 Sep 14 10:20 3539 Sep 15 06:07	0 <u>≈</u> 1° Ω 31'52		max. Earth dist.	3540 Aug 21 00:42 3540 Aug 23 21:29	5° Mp 56'05	1.34550 AU
desc. node	3539 Sep 13 00:07 3539 Sep 27 11:09	22° £ 25'52		evening rise	3540 Aug 28 10:25	14° m) 58'11	1.54550 AU
desc. Hode	3539 Sep 27 11:09 3539 Oct 02 09:51	0°M		evening rise	3540 Sep 05 15:41	0∘ ⊽	
avanina may al	3539 Oct 02 09:31 3539 Oct 20 22:11	23°M17'47	26007150	desc. node	3540 Sep 13 08:12	0 == 12° ⊆ 30'42	
evening max el	3539 Oct 20 22.11 3539 Oct 30 18:20	23 IIG1747 0° √ 7	20 07 38	desc. node	•	0°M	
ratra ara da	3539 Oct 30 18.20 3539 Nov 02 12:54	0° x ¹26'08		evening max el	3540 Sep 26 02:09 3540 Oct 02 10:48	6°M53'29	26°58'20
retrograde	3539 Nov 02 12:54 3539 Nov 05 03:55	30°RM		retrograde	3540 Oct 02 10:48 3540 Oct 15 15:28	14°ML09'53	20 38 20
avanina aat	3539 Nov 03 03:33 3539 Nov 08 19:07	27°M51'24		•	3540 Oct 13 13:28 3540 Oct 22 09:56	14 IIL0933	
evening set min. Earth dist.	3539 Nov 08 19.07 3539 Nov 13 00:33		0.66638 AU	evening set min. Earth dist.	3540 Oct 26 08:39		0.65505 AU
inferior conj	3539 Nov 13 00:33 3539 Nov 14 11:47	23 Mc21 40 21°M32'25		inferior conj	3540 Oct 28 07:49	5°M19'32	
minimum elong	3539 Nov 14 11:47 3539 Nov 14 13:14	21°M27'56		minimum elong	3540 Oct 28 07:49 3540 Oct 28 10:59	5°M10'26	
asc. node	3539 Nov 14 13:14 3539 Nov 17 02:49	18°M26'32	0 33 20	asc. node	3540 Oct 28 10.59 3540 Nov 02 23:51	29° £ 59'35	1 32 32
morning rise	3539 Nov 17 02.49 3539 Nov 20 07:48	15°M42'26		asc. node	3540 Nov 02 23:34 3540 Nov 02 23:34	29 = 3933	
direct	3539 Nov 20 07.48 3539 Nov 23 10:35	13 11642 20 14°M46'57		morning rise	3540 Nov 02 25.54 3540 Nov 03 12:51	30 K== 29° £ 41'55	
morning max el	3539 Nov 23 10.33 3539 Nov 30 05:39	18°MJ32'14	18°49'28	direct	3540 Nov 06 07:17	29° £ 00'08	
morning max ci	3539 Nov 30 03:39 3539 Dec 09 01:30	0° √	10 49 20	direct	3540 Nov 09 16:08	0°M	
morning set	3539 Dec 09 01:30 3539 Dec 21 20:23	19° ∡ ¹49'02		morning max el	3540 Nov 12 19:40	2°M30'56	18°12'59
desc. node	3539 Dec 21 20:23 3539 Dec 24 10:24	23° 🖈 52'42		morning max er	3540 Nov 12 19:40 3540 Dec 01 07:50	2 11€30 30 0° ⊼ 1	16 12 39
desc. Hode	3539 Dec 24 10:24 3539 Dec 28 07:59	23 x 32 42 0°る		morning set	3540 Dec 01 07:30 3540 Dec 01 13:04	0° ₹ ⁷ 21'21	
Earth diet			1 4510C ATT	•			
max. Earth dist.	3540 Jan 06 02:34	13 645 47	1.45126 AU	desc. node	3540 Dec 10 07:28	14° ≯ 32'44	
							-0°40'46
superior conj	3540 Jan 07 06:49	15° る 36'47	-1°25'28	superior conj	3540 Dec 16 09:55	24° ҂ 14'33	
	3540 Jan 07 06:49 3540 Jan 06 21:41	15° ට 36'47 15° ට 00'53	-1°25'28	superior conj minimum elong	3540 Dec 16 09:55 3540 Dec 16 04:45	24° ₹ 14'33 23° ₹ 54'09	0°40'04
superior conj minimum elong	3540 Jan 07 06:49 3540 Jan 06 21:41 3540 Jan 16 08:59	15°♂36'47 15°♂00'53 0°≈	-1°25'28	superior conj	3540 Dec 16 09:55 3540 Dec 16 04:45 3540 Dec 18 22:10	24° ₹ 14'33 23° ₹ 54'09 28° ₹ 11'47	
superior conj	3540 Jan 07 06:49 3540 Jan 06 21:41 3540 Jan 16 08:59 3540 Jan 22 15:18	15°♂36'47 15°♂00'53 0°≈ 10°≈03'05	-1°25'28	superior conj minimum elong max. Earth dist.	3540 Dec 16 09:55 3540 Dec 16 04:45 3540 Dec 18 22:10 3540 Dec 20 01:45	24° 🖈 14'33 23° 🖈 54'09 28° 🖈 11'47 0° る	0°40'04
superior conj minimum elong evening rise	3540 Jan 07 06:49 3540 Jan 06 21:41 3540 Jan 16 08:59 3540 Jan 22 15:18 3540 Feb 04 02:54	15° ට 36'47 15° ට 00'53 0° ක 10° ක03'05 0° 光	-1°25'28 1°24'31	superior conj minimum elong	3540 Dec 16 09:55 3540 Dec 16 04:45 3540 Dec 18 22:10 3540 Dec 20 01:45 3541 Jan 01 17:26	24° ★14'33 23° ★54'09 28° ★11'47 0° 당 19° 당45'20	0°40'04
superior conj minimum elong evening rise evening max el	3540 Jan 07 06:49 3540 Jan 06 21:41 3540 Jan 16 08:59 3540 Jan 22 15:18 3540 Feb 04 02:54 3540 Feb 12 14:07	15° ♂36'47 15° ♂00'53 0° ≈ 10° ≈03'05 0° 升 11° 升16'04	-1°25'28 1°24'31	superior conj minimum elong max. Earth dist. evening rise	3540 Dec 16 09:55 3540 Dec 16 04:45 3540 Dec 18 22:10 3540 Dec 20 01:45 3541 Jan 01 17:26 3541 Jan 08 07:34	24° ₹14'33 23° ₹54'09 28° ₹11'47 0° ₹ 19° ₹45'20 0° ≈	0°40'04 1.45173 AU
superior conj minimum elong evening rise evening max el asc. node	3540 Jan 07 06:49 3540 Jan 06 21:41 3540 Jan 16 08:59 3540 Jan 22 15:18 3540 Feb 04 02:54 3540 Feb 12 14:07 3540 Feb 13 02:09	15°る36'47 15°る00'53 0°≈ 10°≈03'05 0°升 11°升16'04 11°升45'53	-1°25'28 1°24'31	superior conj minimum elong max. Earth dist. evening rise greatest brilliancy	3540 Dec 16 09:55 3540 Dec 16 04:45 3540 Dec 18 22:10 3540 Dec 20 01:45 3541 Jan 01 17:26 3541 Jan 08 07:34 3541 Jan 13 17:30	24° **14'33 23° **54'09 28° **11'47 0° **5 19° **545'20 0° ** 8° **18'57	0°40'04 1.45173 AU -0.7m
superior conj minimum elong evening rise evening max el asc. node retrograde	3540 Jan 07 06:49 3540 Jan 06 21:41 3540 Jan 16 08:59 3540 Jan 22 15:18 3540 Feb 04 02:54 3540 Feb 12 14:07 3540 Feb 13 02:09 3540 Feb 19 06:02	15°る36'47 15°る00'53 0°≈ 10°≈03'05 0°光 11°光16'04 11°光45'53 14°光58'33	-1°25'28 1°24'31	superior conj minimum elong max. Earth dist. evening rise greatest brilliancy evening max el	3540 Dec 16 09:55 3540 Dec 16 04:45 3540 Dec 18 22:10 3540 Dec 20 01:45 3541 Jan 01 17:26 3541 Jan 08 07:34 3541 Jan 13 17:30 3541 Jan 25 21:55	24° 🖈 14'33 23° 矛 54'09 28° 矛 11'47 0° ठ 19° ठ 45'20 0° ≈ 8° ≈ 18'57 24° ≈ 46'15	0°40'04 1.45173 AU
superior conj minimum elong evening rise evening max el asc. node retrograde evening set	3540 Jan 07 06:49 3540 Jan 06 21:41 3540 Jan 16 08:59 3540 Jan 22 15:18 3540 Feb 04 02:54 3540 Feb 12 14:07 3540 Feb 13 02:09 3540 Feb 19 06:02 3540 Feb 22 11:01	15°る36'47 15°る00'53 0°≈ 10°≈03'05 0°光 11°光16'04 11°光45'53 14°光58'33 13°光59'54	-1°25'28 1°24'31 18°43'40	superior conj minimum elong max. Earth dist. evening rise greatest brilliancy evening max el asc. node	3540 Dec 16 09:55 3540 Dec 16 04:45 3540 Dec 18 22:10 3540 Dec 20 01:45 3541 Jan 01 17:26 3541 Jan 08 07:34 3541 Jan 13 17:30 3541 Jan 25 21:55 3541 Jan 29 23:10	24° ₹14'33 23° ₹54'09 28° ₹11'47 0° ₹5 19° ₹45'20 0° ≈ 8° ≈18'57 24° ≈46'15 28° ≈01'44	0°40'04 1.45173 AU -0.7m
superior conj minimum elong evening rise evening max el asc. node retrograde evening set inferior conj	3540 Jan 07 06:49 3540 Jan 06 21:41 3540 Jan 16 08:59 3540 Jan 22 15:18 3540 Feb 04 02:54 3540 Feb 12 14:07 3540 Feb 13 02:09 3540 Feb 19 06:02 3540 Feb 22 11:01 3540 Feb 28 03:45	15°る36'47 15°る00'53 0°≈ 10°≈03'05 0°米 11°米16'04 11°米45'53 14°米58'33 13°米59'54 8°米21'01	-1°25'28 1°24'31 18°43'40	superior conj minimum elong max. Earth dist. evening rise greatest brilliancy evening max el asc. node retrograde	3540 Dec 16 09:55 3540 Dec 16 04:45 3540 Dec 18 22:10 3540 Dec 20 01:45 3541 Jan 01 17:26 3541 Jan 08 07:34 3541 Jan 13 17:30 3541 Jan 25 21:55 3541 Jan 29 23:10 3541 Feb 02 02:50	24° ₹14'33 23° ₹54'09 28° ₹11'47 0° ₹5 19° ₹45'20 0° ≈ 8° ≈18'57 24° ≈46'15 28° ≈01'44 28° ≈55'01	0°40'04 1.45173 AU -0.7m
superior conj minimum elong evening rise evening max el asc. node retrograde evening set inferior conj minimum elong	3540 Jan 07 06:49 3540 Jan 06 21:41 3540 Jan 16 08:59 3540 Jan 22 15:18 3540 Feb 04 02:54 3540 Feb 12 14:07 3540 Feb 13 02:09 3540 Feb 19 06:02 3540 Feb 22 11:01 3540 Feb 28 03:45 3540 Feb 28 02:34	15°る36'47 15°る00'53 0°≈ 10°≈03'05 0°光 11°光16'04 11°光45'53 14°光58'33 13°光59'54 8°光21'01 8°光24'39	-1°25'28 1°24'31 18°43'40 3°33'32 3°33'25	superior conj minimum elong max. Earth dist. evening rise greatest brilliancy evening max el asc. node retrograde evening set	3540 Dec 16 09:55 3540 Dec 16 04:45 3540 Dec 18 22:10 3540 Dec 20 01:45 3541 Jan 01 17:26 3541 Jan 08 07:34 3541 Jan 13 17:30 3541 Jan 25 21:55 3541 Jan 29 23:10 3541 Feb 02 02:50 3541 Feb 05 14:56	24° ₹14'33 23° ₹54'09 28° ₹11'47 0° ₹5 19° ₹45'20 0° ≈ 8° ≈18'57 24° ≈46'15 28° ≈01'44 28° ≈55'01 27° ≈43'05	0°40'04 1.45173 AU -0.7m 19°28'02
superior conj minimum elong evening rise evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist.	3540 Jan 07 06:49 3540 Jan 06 21:41 3540 Jan 16 08:59 3540 Jan 22 15:18 3540 Feb 04 02:54 3540 Feb 12 14:07 3540 Feb 13 02:09 3540 Feb 19 06:02 3540 Feb 22 11:01 3540 Feb 28 03:45 3540 Feb 28 02:34 3540 Mar 01 00:15	15°る36'47 15°る00'53 0°≈ 10°≈03'05 0°光 11°光16'04 11°光45'53 14°光58'33 13°光59'54 8°光21'01 8°光24'39 6°光05'23	-1°25'28 1°24'31 18°43'40	superior conj minimum elong max. Earth dist. evening rise greatest brilliancy evening max el asc. node retrograde evening set inferior conj	3540 Dec 16 09:55 3540 Dec 16 04:45 3540 Dec 18 22:10 3540 Dec 20 01:45 3541 Jan 01 17:26 3541 Jan 08 07:34 3541 Jan 13 17:30 3541 Jan 25 21:55 3541 Jan 29 23:10 3541 Feb 02 02:50 3541 Feb 05 14:56 3541 Feb 11 02:45	24° ₹ 14'33 23° ₹ 54'09 28° ₹ 11'47 0° ₹ 19° ₹ 45'20 0° ≈ 8° ≈ 18'57 24° ≈ 46'15 28° ≈ 55'01 27° ≈ 43'05 21° ≈ 48'31	0°40'04 1.45173 AU -0.7m 19°28'02
superior conj minimum elong evening rise evening max el asc. node retrograde evening set inferior conj minimum elong	3540 Jan 07 06:49 3540 Jan 06 21:41 3540 Jan 16 08:59 3540 Jan 22 15:18 3540 Feb 04 02:54 3540 Feb 12 14:07 3540 Feb 13 02:09 3540 Feb 19 06:02 3540 Feb 22 11:01 3540 Feb 28 03:45 3540 Feb 28 02:34 3540 Mar 01 00:15 3540 Mar 04 17:40	15°る36'47 15°る00'53 0°≈ 10°≈03'05 0°光 11°光16'04 11°光45'53 14°光58'33 13°光59'54 8°光21'01 8°光24'39 6°光05'23 2°光09'40	-1°25'28 1°24'31 18°43'40 3°33'32 3°33'25	superior conj minimum elong max. Earth dist. evening rise greatest brilliancy evening max el asc. node retrograde evening set	3540 Dec 16 09:55 3540 Dec 16 04:45 3540 Dec 18 22:10 3540 Dec 20 01:45 3541 Jan 01 17:26 3541 Jan 08 07:34 3541 Jan 13 17:30 3541 Jan 25 21:55 3541 Jan 29 23:10 3541 Feb 02 02:50 3541 Feb 05 14:56	24° ₹14'33 23° ₹54'09 28° ₹11'47 0° ₹ 19° ₹45'20 0° ≈ 8° ≈18'57 24° ≈46'15 28° ≈55'01 27° ≈43'05 21° ≈48'31 21° ≈55'27	0°40'04 1.45173 AU -0.7m 19°28'02
superior conj minimum elong evening rise evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise	3540 Jan 07 06:49 3540 Jan 06 21:41 3540 Jan 16 08:59 3540 Jan 22 15:18 3540 Feb 04 02:54 3540 Feb 12 14:07 3540 Feb 13 02:09 3540 Feb 19 06:02 3540 Feb 22 11:01 3540 Feb 28 03:45 3540 Feb 28 02:34 3540 Mar 01 00:15 3540 Mar 04 17:40 3540 Mar 08 01:45	15°る36'47 15°る00'53 0°≈ 10°≈03'05 0°光 11°光16'04 11°光45'53 14°光58'33 13°光59'54 8°光21'01 8°光24'39 6°光05'23 2°光09'40 30°R≈	-1°25'28 1°24'31 18°43'40 3°33'32 3°33'25	superior conj minimum elong max. Earth dist. evening rise greatest brilliancy evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist.	3540 Dec 16 09:55 3540 Dec 16 04:45 3540 Dec 18 22:10 3540 Dec 20 01:45 3541 Jan 01 17:26 3541 Jan 08 07:34 3541 Jan 13 17:30 3541 Jan 25 21:55 3541 Jan 29 23:10 3541 Feb 02 02:50 3541 Feb 05 14:56 3541 Feb 11 02:45 3541 Feb 11 00:38 3541 Feb 12 08:14	24° ₹14'33 23° ₹54'09 28° ₹11'47 0° ₹ 19° ₹45'20 0° ≈ 8° ≈18'57 24° ≈46'15 28° ≈01'44 28° ≈55'01 27° ≈43'05 21° ≈48'31 21° ≈55'27 20° ≈12'20	0°40'04 1.45173 AU -0.7m 19°28'02 3°15'31 3°15'08
superior conj minimum elong evening rise evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist.	3540 Jan 07 06:49 3540 Jan 06 21:41 3540 Jan 16 08:59 3540 Jan 22 15:18 3540 Feb 04 02:54 3540 Feb 12 14:07 3540 Feb 13 02:09 3540 Feb 19 06:02 3540 Feb 22 11:01 3540 Feb 28 03:45 3540 Mar 01 00:15 3540 Mar 04 17:40 3540 Mar 08 01:45 3540 Mar 11 09:33	15°る36'47 15°る00'53 0°≈ 10°≈03'05 0°光 11°光16'04 11°光45'53 14°光58'33 13°光59'54 8°光21'01 8°光24'39 6°光05'23 2°光09'40 30°R≈ 29°≈18'36	-1°25'28 1°24'31 18°43'40 3°33'32 3°33'25	superior conj minimum elong max. Earth dist. evening rise greatest brilliancy evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise	3540 Dec 16 09:55 3540 Dec 16 04:45 3540 Dec 18 22:10 3540 Dec 20 01:45 3541 Jan 01 17:26 3541 Jan 08 07:34 3541 Jan 13 17:30 3541 Jan 25 21:55 3541 Jan 29 23:10 3541 Feb 02 02:50 3541 Feb 05 14:56 3541 Feb 11 02:45 3541 Feb 11 00:38 3541 Feb 12 08:14 3541 Feb 16 10:05	24° ₹14'33 23° ₹54'09 28° ₹11'47 0° ₹ 19° ₹45'20 0° ≈ 8° ≈18'57 24° ≈46'15 28° ≈01'44 28° ≈55'01 27° ≈43'05 21° ≈48'31 21° ≈55'27 20° ≈12'20 15° ≈35'06	0°40'04 1.45173 AU -0.7m 19°28'02 3°15'31 3°15'08
superior conj minimum elong evening rise evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise	3540 Jan 07 06:49 3540 Jan 06 21:41 3540 Jan 16 08:59 3540 Jan 22 15:18 3540 Feb 04 02:54 3540 Feb 12 14:07 3540 Feb 13 02:09 3540 Feb 19 06:02 3540 Feb 22 11:01 3540 Feb 28 02:34 3540 Mar 01 00:15 3540 Mar 04 17:40 3540 Mar 08 01:45 3540 Mar 11 09:33 3540 Mar 14 22:39	15°る36'47 15°る00'53 0°≈ 10°≈03'05 0°光 11°光16'04 11°光45'53 14°光58'33 13°光59'54 8°光21'01 8°光24'39 6°光05'23 2°光09'40 30°R≈ 29°≈18'36 0°光	-1°25'28 1°24'31 18°43'40 3°33'32 3°33'25	superior conj minimum elong max. Earth dist. evening rise greatest brilliancy evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct	3540 Dec 16 09:55 3540 Dec 16 04:45 3540 Dec 18 22:10 3540 Dec 20 01:45 3541 Jan 01 17:26 3541 Jan 08 07:34 3541 Jan 13 17:30 3541 Jan 25 21:55 3541 Jan 29 23:10 3541 Feb 02 02:50 3541 Feb 11 02:45 3541 Feb 11 00:38 3541 Feb 12 08:14 3541 Feb 16 10:05 3541 Feb 12 15:04	24° 🖈 14'33 23° 🖈 54'09 28° 🖈 11'47 0° で 19° で 45'20 0° ※ 8° ※18'57 24° ※46'15 28° ※01'44 28° ※55'01 27° ※43'05 21° ※48'31 21° ※55'27 20° ※12'20 15° ※35'06 12° ※49'40	0°40'04 1.45173 AU -0.7m 19°28'02 3°15'31 3°15'08 0.66509 AU
superior conj minimum elong evening rise evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node	3540 Jan 07 06:49 3540 Jan 06 21:41 3540 Jan 16 08:59 3540 Jan 22 15:18 3540 Feb 04 02:54 3540 Feb 12 14:07 3540 Feb 13 02:09 3540 Feb 19 06:02 3540 Feb 22 11:01 3540 Feb 28 03:45 3540 Mar 01 00:15 3540 Mar 04 17:40 3540 Mar 08 01:45 3540 Mar 11 09:33 3540 Mar 11 09:33 3540 Mar 14 22:39 3540 Mar 21 09:37	15°る36'47 15°る00'53 0°≈ 10°≈03'05 0°光 11°光16'04 11°光45'53 14°光58'33 13°光59'54 8°光21'01 8°光24'39 6°光05'23 2°光09'40 30°R≈ 29°≈18'36 0°光 4°光03'57	-1°25'28 1°24'31 18°43'40 3°33'32 3°33'25 0.65225 AU	superior conj minimum elong max. Earth dist. evening rise greatest brilliancy evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el	3540 Dec 16 09:55 3540 Dec 16 04:45 3540 Dec 18 22:10 3540 Dec 20 01:45 3541 Jan 01 17:26 3541 Jan 08 07:34 3541 Jan 13 17:30 3541 Jan 25 21:55 3541 Jan 29 23:10 3541 Feb 02 02:50 3541 Feb 11 02:45 3541 Feb 11 00:38 3541 Feb 12 08:14 3541 Feb 16 10:05 3541 Feb 22 15:04 3541 Mar 07 01:21	24° 🖈 14'33 23° 🖈 54'09 28° 🖈 11'47 0° で 19° で 45'20 0° ※ 8° ※18'57 24° ※46'15 28° ※01'44 28° ※55'01 27° ※43'05 21° ※48'31 21° ※55'27 20° ※12'20 15° ※35'06 12° ※49'40 20° ※13'12	0°40'04 1.45173 AU -0.7m 19°28'02 3°15'31 3°15'08 0.66509 AU
superior conj minimum elong evening rise evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise	3540 Jan 07 06:49 3540 Jan 06 21:41 3540 Jan 16 08:59 3540 Jan 22 15:18 3540 Feb 04 02:54 3540 Feb 12 14:07 3540 Feb 13 02:09 3540 Feb 19 06:02 3540 Feb 22 11:01 3540 Feb 28 03:45 3540 Mar 01 00:15 3540 Mar 04 17:40 3540 Mar 08 01:45 3540 Mar 11 09:33 3540 Mar 11 09:33 3540 Mar 14 22:39 3540 Mar 21 09:37 3540 Mar 24 15:46	15°る36'47 15°る00'53 0°≈ 10°≈03'05 0°光 11°光16'04 11°光45'53 14°光58'33 13°光59'54 8°光21'01 8°光24'39 6°光05'23 2°光09'40 30°R≈ 29°≈18'36 0°光	-1°25'28 1°24'31 18°43'40 3°33'32 3°33'25 0.65225 AU	superior conj minimum elong max. Earth dist. evening rise greatest brilliancy evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct	3540 Dec 16 09:55 3540 Dec 16 04:45 3540 Dec 18 22:10 3540 Dec 20 01:45 3541 Jan 01 17:26 3541 Jan 08 07:34 3541 Jan 13 17:30 3541 Jan 25 21:55 3541 Jan 29 23:10 3541 Feb 02 02:50 3541 Feb 11 02:45 3541 Feb 11 00:38 3541 Feb 12 08:14 3541 Feb 12 08:14 3541 Feb 16 10:05 3541 Feb 22 15:04 3541 Mar 07 01:21 3541 Mar 08 06:41	24° 🖈 14'33 23° 🖈 54'09 28° 🖈 11'47 0° で 19° で 45'20 0° ※ 8° ※18'57 24° ※46'15 28° ※01'44 28° ※55'01 27° ※43'05 21° ※48'31 21° ※55'27 20° ※12'20 15° ※35'06 12° ※49'40 20° ※13'12 21° ※29'12	0°40'04 1.45173 AU -0.7m 19°28'02 3°15'31 3°15'08 0.66509 AU
superior conj minimum elong evening rise evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node	3540 Jan 07 06:49 3540 Jan 06 21:41 3540 Jan 16 08:59 3540 Jan 22 15:18 3540 Feb 04 02:54 3540 Feb 12 14:07 3540 Feb 13 02:09 3540 Feb 19 06:02 3540 Feb 22 11:01 3540 Feb 28 03:45 3540 Feb 28 02:34 3540 Mar 01 00:15 3540 Mar 04 17:40 3540 Mar 08 01:45 3540 Mar 11 09:33 3540 Mar 14 22:39 3540 Mar 21 09:37 3540 Mar 24 15:46 3540 Apr 11 08:20	15°♂36'47 15°♂00'53 0°≈ 10°≈03'05 0°ℋ 11°ℋ16'04 11°ℋ45'53 14°ℋ58'33 13°ℋ59'54 8°ℋ21'01 8°ℋ24'39 6°ℋ05'23 2°ℋ09'40 30°ℝ≈ 29°≈18'36 0°ℋ 4°ℋ03'57 7°ℋ05'35	-1°25'28 1°24'31 18°43'40 3°33'32 3°33'25 0.65225 AU	superior conj minimum elong max. Earth dist. evening rise greatest brilliancy evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el	3540 Dec 16 09:55 3540 Dec 16 04:45 3540 Dec 18 22:10 3540 Dec 20 01:45 3541 Jan 01 17:26 3541 Jan 08 07:34 3541 Jan 25 21:55 3541 Jan 29 23:10 3541 Feb 02 02:50 3541 Feb 05 14:56 3541 Feb 11 02:45 3541 Feb 11 00:38 3541 Feb 12 08:14 3541 Feb 12 08:14 3541 Feb 16 10:05 3541 Feb 22 15:04 3541 Mar 07 01:21 3541 Mar 08 06:41 3541 Mar 15 10:59	24° **14'33 23° **754'09 28° ***11'47 0° **5 19° *545'20 0° *** 8° **18'57 24° **46'15 28° ***01'44 28° **55'01 27° **43'05 21° **48'31 21° **55'27 20° **12'20 15° **35'06 12° **49'40 20° **13'12 21° **29'12 0° **#	0°40'04 1.45173 AU -0.7m 19°28'02 3°15'31 3°15'08 0.66509 AU
superior conj minimum elong evening rise evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el	3540 Jan 07 06:49 3540 Jan 06 21:41 3540 Jan 16 08:59 3540 Jan 22 15:18 3540 Feb 04 02:54 3540 Feb 12 14:07 3540 Feb 13 02:09 3540 Feb 19 06:02 3540 Feb 22 11:01 3540 Feb 28 03:45 3540 Feb 28 02:34 3540 Mar 01 00:15 3540 Mar 04 17:40 3540 Mar 08 01:45 3540 Mar 11 09:33 3540 Mar 14 22:39 3540 Mar 21 09:37 3540 Mar 24 15:46 3540 Apr 11 08:20 3540 Apr 28 20:35	15°る36'47 15°る00'53 0°≈ 10°≈03'05 0°光 11°升16'04 11°升45'53 14°升58'33 13°升59'54 8°升21'01 8°升24'39 6°升05'23 2°升09'40 30°R≈ 29°≈18'36 0°升 4°升03'57 7°升05'35 0°Υ	-1°25'28 1°24'31 18°43'40 3°33'32 3°33'25 0.65225 AU	superior conj minimum elong max. Earth dist. evening rise greatest brilliancy evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el desc. node	3540 Dec 16 09:55 3540 Dec 16 04:45 3540 Dec 18 22:10 3540 Dec 20 01:45 3541 Jan 01 17:26 3541 Jan 08 07:34 3541 Jan 25 21:55 3541 Jan 29 23:10 3541 Feb 02 02:50 3541 Feb 05 14:56 3541 Feb 11 02:45 3541 Feb 11 00:38 3541 Feb 12 08:14 3541 Feb 12 08:14 3541 Feb 16 10:05 3541 Feb 17 00:38 3541 Feb 18 18 18 18 18 18 18 18 18 18 18 18 18	24° **14'33 23° **754'09 28° ***11'47 0° **5 19° *545'20 0° ≈ 8° ≈18'57 24° ≈46'15 28° ≈01'44 28° ≈55'01 27° ≈43'05 21° ≈48'31 21° ≈55'27 20° ≈12'20 15° ≈35'06 12° ≈49'40 20° ≈13'12 21° ≈29'12 0° **1 0° **7	0°40'04 1.45173 AU -0.7m 19°28'02 3°15'31 3°15'08 0.66509 AU
superior conj minimum elong evening rise evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node	3540 Jan 07 06:49 3540 Jan 06 21:41 3540 Jan 16 08:59 3540 Jan 22 15:18 3540 Feb 04 02:54 3540 Feb 12 14:07 3540 Feb 13 02:09 3540 Feb 22 11:01 3540 Feb 28 03:45 3540 Feb 28 02:34 3540 Mar 01 00:15 3540 Mar 04 17:40 3540 Mar 08 01:45 3540 Mar 11 09:33 3540 Mar 14 22:39 3540 Mar 21 09:37 3540 Mar 24 15:46 3540 Apr 11 08:20 3540 Apr 28 20:35 3540 Apr 29 08:52	15°る36'47 15°る00'53 0°≈ 10°≈03'05 0°米 11°升16'04 11°升45'53 14°升58'33 13°升59'54 8°升21'01 8°升24'39 6°升05'23 2°升09'40 30°R≈ 29°≈18'36 0°升 4°升03'57 7°升05'35 0°Υ 0°坄58'54	-1°25'28 1°24'31 18°43'40 3°33'32 3°33'25 0.65225 AU	superior conj minimum elong max. Earth dist. evening rise greatest brilliancy evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el	3540 Dec 16 09:55 3540 Dec 16 04:45 3540 Dec 18 22:10 3540 Dec 20 01:45 3541 Jan 01 17:26 3541 Jan 08 07:34 3541 Jan 13 17:30 3541 Jan 25 21:55 3541 Jan 29 23:10 3541 Feb 02 02:50 3541 Feb 05 14:56 3541 Feb 11 00:38 3541 Feb 11 00:38 3541 Feb 12 08:14 3541 Feb 16 10:05 3541 Feb 22 15:04 3541 Mar 07 01:21 3541 Mar 08 06:41 3541 Mar 15 10:59 3541 Apr 04 11:35 3541 Apr 12 06:32	24° ₹14'33 23° ₹54'09 28° ₹11'47 0° ₹ 19° ₹45'20 0° ≈ 8° ≈18'57 24° ≈46'15 28° ≈01'44 28° ≈55'01 27° ≈43'05 21° ≈48'31 21° ≈55'27 20° ≈12'20 15° ≈35'06 12° ≈49'40 20° ≈13'12 21° ≈29'12 0° ₹ 0° ₹	0°40'04 1.45173 AU -0.7m 19°28'02 3°15'31 3°15'08 0.66509 AU
superior conj minimum elong evening rise evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el	3540 Jan 07 06:49 3540 Jan 06 21:41 3540 Jan 16 08:59 3540 Jan 22 15:18 3540 Feb 04 02:54 3540 Feb 12 14:07 3540 Feb 13 02:09 3540 Feb 19 06:02 3540 Feb 22 11:01 3540 Feb 28 03:45 3540 Feb 28 02:34 3540 Mar 01 00:15 3540 Mar 04 17:40 3540 Mar 08 01:45 3540 Mar 11 09:33 3540 Mar 14 22:39 3540 Mar 21 09:37 3540 Mar 24 15:46 3540 Apr 11 08:20 3540 Apr 28 20:35	15°る36'47 15°る00'53 0°≈ 10°≈03'05 0°光 11°升16'04 11°升45'53 14°升58'33 13°升59'54 8°升21'01 8°升24'39 6°升05'23 2°升09'40 30°R≈ 29°≈18'36 0°升 4°升03'57 7°升05'35 0°Υ	-1°25'28 1°24'31 18°43'40 3°33'32 3°33'25 0.65225 AU	superior conj minimum elong max. Earth dist. evening rise greatest brilliancy evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el desc. node	3540 Dec 16 09:55 3540 Dec 16 04:45 3540 Dec 18 22:10 3540 Dec 20 01:45 3541 Jan 01 17:26 3541 Jan 08 07:34 3541 Jan 13 17:30 3541 Jan 25 21:55 3541 Jan 29 23:10 3541 Feb 02 02:50 3541 Feb 05 14:56 3541 Feb 11 02:45 3541 Feb 11 00:38 3541 Feb 12 08:14 3541 Feb 16 10:05 3541 Feb 22 15:04 3541 Mar 07 01:21 3541 Mar 08 06:41 3541 Mar 15 10:59 3541 Apr 04 11:35 3541 Apr 12 06:32 3541 Apr 16 03:01	24° ₹14'33 23° ₹54'09 28° ₹11'47 0° ₹ 19° ₹45'20 0° ≈ 8° ≈18'57 24° ≈46'15 28° ≈55'01 27° ≈43'05 21° ≈48'31 21° ≈55'27 20° ≈12'20 15° ≈35'06 12° ≈49'40 20° ≈13'12 21° ≈29'12 0° 升 0° ♀ 13° ♀44'19 20° ♀59'21	0°40'04 1.45173 AU -0.7m 19°28'02 3°15'31 3°15'08 0.66509 AU 25°53'16
superior conj minimum elong evening rise evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el	3540 Jan 07 06:49 3540 Jan 06 21:41 3540 Jan 16 08:59 3540 Jan 22 15:18 3540 Feb 04 02:54 3540 Feb 12 14:07 3540 Feb 13 02:09 3540 Feb 19 06:02 3540 Feb 22 11:01 3540 Feb 28 03:45 3540 Feb 28 02:34 3540 Mar 01 00:15 3540 Mar 04 17:40 3540 Mar 08 01:45 3540 Mar 11 09:33 3540 Mar 14 22:39 3540 Mar 21 09:37 3540 Mar 24 15:46 3540 Apr 11 08:20 3540 Apr 29 08:52 3540 May 03 19:42	15°る36'47 15°る00'53 0°≈ 10°≈03'05 0°光 11°光16'04 11°光45'53 14°光58'33 13°光59'54 8°光21'01 8°光24'39 6°光05'23 2°光09'40 30°R≈ 29°≈18'36 0°光 4°光03'57 7°光05'35 0°Y 0°뭥 0°엉ち8'54 9°엉46'21	-1°25'28 1°24'31 18°43'40 3°33'32 3°33'25 0.65225 AU 27°00'25	superior conj minimum elong max. Earth dist. evening rise greatest brilliancy evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el desc. node	3540 Dec 16 09:55 3540 Dec 16 04:45 3540 Dec 18 22:10 3540 Dec 20 01:45 3541 Jan 01 17:26 3541 Jan 08 07:34 3541 Jan 13 17:30 3541 Jan 25 21:55 3541 Jan 29 23:10 3541 Feb 02 02:50 3541 Feb 05 14:56 3541 Feb 11 00:38 3541 Feb 11 00:38 3541 Feb 12 08:14 3541 Feb 16 10:05 3541 Feb 22 15:04 3541 Mar 07 01:21 3541 Mar 08 06:41 3541 Mar 15 10:59 3541 Apr 04 11:35 3541 Apr 12 06:32	24° ₹14'33 23° ₹54'09 28° ₹11'47 0° ₹ 19° ₹45'20 0° ≈ 8° ≈18'57 24° ≈46'15 28° ≈01'44 28° ≈55'01 27° ≈43'05 21° ≈48'31 21° ≈55'27 20° ≈12'20 15° ≈35'06 12° ≈49'40 20° ≈13'12 21° ≈29'12 0° ₹ 0° ₹	0°40'04 1.45173 AU -0.7m 19°28'02 3°15'31 3°15'08 0.66509 AU 25°53'16
superior conj minimum elong evening rise evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el morning set max. Earth dist. superior conj	3540 Jan 07 06:49 3540 Jan 06 21:41 3540 Jan 16 08:59 3540 Jan 22 15:18 3540 Feb 04 02:54 3540 Feb 12 14:07 3540 Feb 13 02:09 3540 Feb 19 06:02 3540 Feb 22 11:01 3540 Feb 28 03:45 3540 Feb 28 02:34 3540 Mar 01 00:15 3540 Mar 04 17:40 3540 Mar 11 09:33 3540 Mar 14 22:39 3540 Mar 14 22:39 3540 Mar 21 09:37 3540 Mar 24 15:46 3540 Apr 11 08:20 3540 Apr 29 08:52 3540 May 07 18:38	15°る36'47 15°る00'53 0°≈ 10°≈03'05 0°光 11°光16'04 11°光45'53 14°光58'33 13°光59'54 8°光24'39 6°升05'23 2°升09'40 30°R≈ 29°≈18'36 0°光 4°升03'57 7°升05'35 0°Y 0°と 0°と58'54 9°と46'21	-1°25'28 1°24'31 18°43'40 3°33'32 3°33'25 0.65225 AU 27°00'25 1.34046 AU -0°33'43	superior conj minimum elong max. Earth dist. evening rise greatest brilliancy evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el desc. node morning set max. Earth dist.	3540 Dec 16 09:55 3540 Dec 16 04:45 3540 Dec 18 22:10 3540 Dec 20 01:45 3541 Jan 01 17:26 3541 Jan 08 07:34 3541 Jan 13 17:30 3541 Jan 25 21:55 3541 Jan 29 23:10 3541 Feb 02 02:50 3541 Feb 05 14:56 3541 Feb 11 02:45 3541 Feb 11 00:38 3541 Feb 12 08:14 3541 Feb 16 10:05 3541 Feb 12 08:14 3541 Feb 16 10:05 3541 Feb 22 15:04 3541 Mar 07 01:21 3541 Mar 08 06:41 3541 Mar 15 10:59 3541 Apr 04 11:35 3541 Apr 12 06:32 3541 Apr 16 03:01 3541 Apr 20 17:04	24° ₹14'33 23° ₹54'09 28° ₹11'47 0° ₹ 19° ₹45'20 0° ≈ 8° ≈18'57 24° ≈46'15 28° ≈01'44 28° ≈55'01 27° ≈43'05 21° ≈48'31 21° ≈55'27 20° ≈12'20 15° ≈35'06 12° ≈49'40 20° ≈13'12 21° ≈29'12 0° ₹ 0° ₹ 13° ₹44'19 20° ₹59'21 0° ₹	0°40'04 1.45173 AU -0.7m 19°28'02 3°15'31 3°15'08 0.66509 AU 25°53'16
superior conj minimum elong evening rise evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el morning set max. Earth dist. superior conj minimum elong	3540 Jan 07 06:49 3540 Jan 06 21:41 3540 Jan 16 08:59 3540 Jan 22 15:18 3540 Feb 04 02:54 3540 Feb 12 14:07 3540 Feb 13 02:09 3540 Feb 19 06:02 3540 Feb 22 11:01 3540 Feb 28 03:45 3540 Feb 28 02:34 3540 Mar 01 00:15 3540 Mar 04 17:40 3540 Mar 11 09:33 3540 Mar 14 22:39 3540 Mar 21 09:37 3540 Mar 24 15:46 3540 Apr 11 08:20 3540 Apr 28 20:35 3540 Apr 29 08:52 3540 May 07 18:38 3540 May 07 18:38 3540 May 07 18:38	15°る36'47 15°る00'53 0°≈ 10°≈03'05 0°光 11°光16'04 11°光45'53 14°光58'33 13°光59'54 8°光21'01 8°光24'39 6°升05'23 2°升09'40 30°R≈ 29°≈18'36 0°光 4°升03'57 7°升05'35 0°Y 0°と 0°と58'54 9°と46'21 17°と55'16 18°と04'27	-1°25'28 1°24'31 18°43'40 3°33'32 3°33'25 0.65225 AU 27°00'25 1.34046 AU -0°33'43	superior conj minimum elong max. Earth dist. evening rise greatest brilliancy evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el desc. node morning set max. Earth dist.	3540 Dec 16 09:55 3540 Dec 16 04:45 3540 Dec 18 22:10 3540 Dec 20 01:45 3541 Jan 01 17:26 3541 Jan 08 07:34 3541 Jan 13 17:30 3541 Jan 25 21:55 3541 Jan 29 23:10 3541 Feb 02 02:50 3541 Feb 05 14:56 3541 Feb 11 02:45 3541 Feb 11 00:38 3541 Feb 12 08:14 3541 Feb 16 10:05 3541 Feb 22 15:04 3541 Feb 22 15:04 3541 Mar 07 01:21 3541 Mar 08 06:41 3541 Apr 04 11:35 3541 Apr 12 06:32 3541 Apr 16 03:01 3541 Apr 20 17:04	24° ₹14'33 23° ₹54'09 28° ₹11'47 0° ₹ 19° ₹45'20 0° ≈ 8° ≈18'57 24° ≈46'15 28° ≈01'44 28° ≈55'01 27° ≈43'05 21° ≈48'31 21° ≈55'27 20° ≈12'20 15° ≈35'06 12° ≈49'40 20° ≈13'12 21° ≈29'12 0° ₹ 0° ₹ 13° ₹44'19 20° ₹59'21 0° ₹	0°40'04 1.45173 AU -0.7m 19°28'02 3°15'31 3°15'08 0.66509 AU 25°53'16
superior conj minimum elong evening rise evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el morning set max. Earth dist. superior conj	3540 Jan 07 06:49 3540 Jan 06 21:41 3540 Jan 16 08:59 3540 Jan 22 15:18 3540 Feb 04 02:54 3540 Feb 12 14:07 3540 Feb 13 02:09 3540 Feb 19 06:02 3540 Feb 28 03:45 3540 Feb 28 02:34 3540 Mar 01 00:15 3540 Mar 04 17:40 3540 Mar 11 09:33 3540 Mar 14 22:39 3540 Mar 21 09:37 3540 Mar 24 15:46 3540 Apr 11 08:20 3540 Apr 28 20:35 3540 Apr 29 08:52 3540 May 07 18:38 3540 May 07 18:38 3540 May 07 20:24 3540 May 11 01:27	15°る36'47 15°る00'53 0°≈ 10°≈03'05 0°光 11°光16'04 11°光45'53 14°光58'33 13°光59'54 8°光21'01 8°光24'39 6°光05'23 2°光09'40 30°R≈ 29°≈18'36 0°光 4°光03'57 7°光05'35 0°Y 0°と 0°と58'54 9°と46'21 17°と55'16 18°と04'27 24°と50'45	-1°25'28 1°24'31 18°43'40 3°33'32 3°33'25 0.65225 AU 27°00'25 1.34046 AU -0°33'43	superior conj minimum elong max. Earth dist. evening rise greatest brilliancy evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el desc. node morning set max. Earth dist.	3540 Dec 16 09:55 3540 Dec 16 04:45 3540 Dec 18 22:10 3540 Dec 20 01:45 3541 Jan 01 17:26 3541 Jan 08 07:34 3541 Jan 13 17:30 3541 Jan 25 21:55 3541 Jan 29 23:10 3541 Feb 02 02:50 3541 Feb 05 14:56 3541 Feb 11 02:45 3541 Feb 11 00:38 3541 Feb 12 08:14 3541 Feb 16 10:05 3541 Feb 12 08:14 3541 Feb 12 15:04 3541 Mar 07 01:21 3541 Mar 08 06:41 3541 Apr 04 11:35 3541 Apr 12 06:32 3541 Apr 16 03:01 3541 Apr 20 17:04	24°×14'33 23°×54'09 28°×11'47 0°उ 19°उ45'20 0°≈ 8°≈18'57 24°≈46'15 28°≈01'44 28°≈55'01 27°≈43'05 21°≈48'31 21°≈55'27 20°≈12'20 15°≈35'06 12°≈49'40 20°≈13'12 21°≈29'12 0°Y 13°Y44'19 20°Y59'21 0°8 1°840'42 1°857'21	0°40'04 1.45173 AU -0.7m 19°28'02 3°15'31 3°15'08 0.66509 AU 25°53'16
superior conj minimum elong evening rise evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el morning set max. Earth dist. superior conj minimum elong asc. node	3540 Jan 07 06:49 3540 Jan 06 21:41 3540 Jan 16 08:59 3540 Jan 22 15:18 3540 Feb 04 02:54 3540 Feb 12 14:07 3540 Feb 13 02:09 3540 Feb 19 06:02 3540 Feb 28 03:45 3540 Feb 28 02:34 3540 Mar 01 00:15 3540 Mar 04 17:40 3540 Mar 11 09:33 3540 Mar 14 22:39 3540 Mar 21 09:37 3540 Mar 24 15:46 3540 Apr 11 08:20 3540 Apr 28 20:35 3540 Apr 29 08:52 3540 May 07 18:38 3540 May 07 18:38 3540 May 07 20:24 3540 May 11 01:27 3540 May 13 11:51	15°る36'47 15°る00'53 0°≈ 10°≈03'05 0°光 11°光16'04 11°光45'53 14°光58'33 13°光59'54 8°光21'01 8°光24'39 6°光05'23 2°光09'40 30°R≈ 29°≈18'36 0°光 4°光03'57 7°光05'35 0°Y 0°8 0°858'54 9°846'21 17°855'16 18°804'27 24°850'45 0°Ⅱ	-1°25'28 1°24'31 18°43'40 3°33'32 3°33'25 0.65225 AU 27°00'25 1.34046 AU -0°33'43	superior conj minimum elong max. Earth dist. evening rise greatest brilliancy evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el desc. node morning set max. Earth dist. superior conj minimum elong asc. node	3540 Dec 16 09:55 3540 Dec 16 04:45 3540 Dec 18 22:10 3540 Dec 20 01:45 3541 Jan 01 17:26 3541 Jan 08 07:34 3541 Jan 13 17:30 3541 Jan 25 21:55 3541 Jan 29 23:10 3541 Feb 02 02:50 3541 Feb 05 14:56 3541 Feb 11 02:45 3541 Feb 11 00:38 3541 Feb 12 08:14 3541 Feb 16 10:05 3541 Feb 12 08:14 3541 Feb 12 05:44 3541 Mar 07 01:21 3541 Mar 08 06:41 3541 Mar 15 10:59 3541 Apr 04 11:35 3541 Apr 12 06:32 3541 Apr 20 17:04	24° ₹14'33 23° ₹54'09 28° ₹11'47 0° ₹ 19° ₹45'20 0° ≈ 8° ≈18'57 24° ≈46'15 28° ≈01'44 28° ≈55'01 27° ≈43'05 21° ≈48'31 21° ≈55'27 20° ≈12'20 15° ≈35'06 12° ≈49'40 20° ≈13'12 21° ≈29'12 0° ₹ 0° ↑ 13° ↑44'19 20° ↑59'21 0° ₹ 1° ₹40'42 1° ₹57'21 14° ₹47'15	0°40'04 1.45173 AU -0.7m 19°28'02 3°15'31 3°15'08 0.66509 AU 25°53'16
superior conj minimum elong evening rise evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el morning set max. Earth dist. superior conj minimum elong	3540 Jan 07 06:49 3540 Jan 06 21:41 3540 Jan 16 08:59 3540 Jan 22 15:18 3540 Feb 04 02:54 3540 Feb 12 14:07 3540 Feb 13 02:09 3540 Feb 19 06:02 3540 Feb 22 11:01 3540 Feb 28 02:34 3540 Mar 01 00:15 3540 Mar 04 17:40 3540 Mar 08 01:45 3540 Mar 11 09:33 3540 Mar 14 22:39 3540 Mar 24 15:46 3540 Apr 11 08:20 3540 Apr 28 20:35 3540 Apr 29 08:52 3540 May 07 18:38 3540 May 07 18:38 3540 May 07 18:38 3540 May 11 01:27 3540 May 13 11:51 3540 May 15 04:10	15°る36'47 15°る00'53 0°≈ 10°≈03'05 0°光 11°光16'04 11°光45'53 14°光58'33 13°光59'54 8°光21'01 8°光24'39 6°光05'23 2°光09'40 30°R≈ 29°≈18'36 0°光 4°光03'57 7°光05'35 0°Y 0°と 0°と58'54 9°と46'21 17°と55'16 18°と04'27 24°と50'45 0°Ⅱ 3°川31'46	-1°25'28 1°24'31 18°43'40 3°33'32 3°33'25 0.65225 AU 27°00'25 1.34046 AU -0°33'43	superior conj minimum elong max. Earth dist. evening rise greatest brilliancy evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el desc. node morning set max. Earth dist.	3540 Dec 16 09:55 3540 Dec 16 04:45 3540 Dec 18 22:10 3540 Dec 20 01:45 3541 Jan 01 17:26 3541 Jan 08 07:34 3541 Jan 13 17:30 3541 Jan 25 21:55 3541 Jan 29 23:10 3541 Feb 02 02:50 3541 Feb 11 02:45 3541 Feb 11 02:45 3541 Feb 12 08:14 3541 Feb 12 08:14 3541 Feb 16 10:05 3541 Feb 22 15:04 3541 Mar 07 01:21 3541 Mar 08 06:41 3541 Mar 15 10:59 3541 Apr 04 11:35 3541 Apr 12 06:32 3541 Apr 20 17:04 3541 Apr 21 13:04 3541 Apr 21 16:22 3541 Apr 27 22:30 3541 Apr 29 11:04	24°ズ14'33 23°ズ54'09 28°ズ11'47 0°उ 19°उ45'20 0°≈ 8°≈18'57 24°≈46'15 28°≈01'44 28°≈55'01 27°≈43'05 21°≈48'31 21°≈55'27 20°≈12'20 15°≈35'06 12°≈49'40 20°≈13'12 21°≈29'12 0°ϒ 13°ϒ44'19 20°ϒ59'21 0°℧ 1°℧40'42 1°℧57'21 14°℧47'15 17°℧54'56	0°40'04 1.45173 AU -0.7m 19°28'02 3°15'31 3°15'08 0.66509 AU 25°53'16
superior conj minimum elong evening rise evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el morning set max. Earth dist. superior conj minimum elong asc. node evening rise	3540 Jan 07 06:49 3540 Jan 06 21:41 3540 Jan 16 08:59 3540 Jan 22 15:18 3540 Feb 04 02:54 3540 Feb 12 14:07 3540 Feb 13 02:09 3540 Feb 19 06:02 3540 Feb 22 11:01 3540 Feb 28 03:45 3540 Feb 28 02:34 3540 Mar 01 00:15 3540 Mar 04 17:40 3540 Mar 11 09:33 3540 Mar 14 22:39 3540 Mar 14 22:39 3540 Mar 24 15:46 3540 Apr 11 08:20 3540 Apr 28 20:35 3540 Apr 29 08:52 3540 May 07 18:38 3540 May 07 18:38 3540 May 07 18:38 3540 May 11 01:27 3540 May 13 11:51 3540 May 15 04:10 3540 May 29 23:55	15°る36'47 15°る00'53 0°≈ 10°≈03'05 0°升 11°升16'04 11°升45'53 14°升58'33 13°升59'54 8°升21'01 8°升24'39 6°升05'23 2°升09'40 30°R≈ 29°≈18'36 0°升 4°升03'57 7°升05'35 0°Y 0°뭥 0°엉58'54 9°엉46'21 17°엉55'16 18°엉04'27 24°엉50'45 0°用 3°用31'46	-1°25'28 1°24'31 18°43'40 3°33'32 3°33'25 0.65225 AU 27°00'25 1.34046 AU -0°33'43 0°33'21	superior conj minimum elong max. Earth dist. evening rise greatest brilliancy evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el desc. node morning set max. Earth dist. superior conj minimum elong asc. node evening rise	3540 Dec 16 09:55 3540 Dec 16 04:45 3540 Dec 18 22:10 3540 Dec 20 01:45 3541 Jan 01 17:26 3541 Jan 08 07:34 3541 Jan 13 17:30 3541 Jan 25 21:55 3541 Jan 29 23:10 3541 Feb 02 02:50 3541 Feb 11 02:45 3541 Feb 11 00:38 3541 Feb 11 00:38 3541 Feb 12 08:14 3541 Feb 12 08:14 3541 Feb 12 08:14 3541 Feb 12 01:21 3541 Mar 07 01:21 3541 Mar 08 06:41 3541 Mar 15 10:59 3541 Apr 04 11:35 3541 Apr 12 06:32 3541 Apr 12 06:32 3541 Apr 20 17:04 3541 Apr 21 13:04 3541 Apr 21 13:04 3541 Apr 27 22:30 3541 Apr 29 11:04 3541 May 05 14:32	24°ズ14'33 23°ズ54'09 28°ズ11'47 0°उ 19°उ45'20 0°≈ 8°≈18'57 24°≈46'15 28°≈01'44 28°≈55'01 27°≈43'05 21°≈48'31 21°≈55'27 20°≈12'20 15°≈35'06 12°≈49'40 20°≈13'12 21°≈29'12 0°ϒ 13°ϒ44'19 20°ϒ59'21 0°℧ 1°℧40'42 1°℧57'21 14°℧47'15 17°℧54'56 0°Ⅱ	0°40'04 1.45173 AU -0.7m 19°28'02 3°15'31 3°15'08 0.66509 AU 25°53'16 1.35612 AU -1°02'30 1°01'54
superior conj minimum elong evening rise evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el morning set max. Earth dist. superior conj minimum elong asc. node evening rise evening max el	3540 Jan 07 06:49 3540 Jan 06 21:41 3540 Jan 16 08:59 3540 Jan 22 15:18 3540 Feb 04 02:54 3540 Feb 12 14:07 3540 Feb 13 02:09 3540 Feb 19 06:02 3540 Feb 22 11:01 3540 Feb 28 03:45 3540 Feb 28 02:34 3540 Mar 01 00:15 3540 Mar 04 17:40 3540 Mar 11 09:33 3540 Mar 11 09:33 3540 Mar 14 22:39 3540 Mar 21 09:37 3540 Mar 21 09:37 3540 Mar 22 09:35 3540 Apr 28 20:35 3540 Apr 29 08:52 3540 May 07 18:38 3540 May 07 18:38 3540 May 11 01:27 3540 May 11 01:27 3540 May 13 11:51 3540 May 29 23:55 3540 May 29 23:55 3540 May 29 23:55 3540 May 29 23:55	15°る36'47 15°る00'53 0°≈ 10°≈03'05 0°升 11°升16'04 11°升45'53 14°升58'33 13°升59'54 8°升21'01 8°升24'39 6°升05'23 2°升09'40 30°R≈ 29°≈18'36 0°升 4°升03'57 7°升05'35 0°Y 0°뭥 0°엉58'54 9°엉46'21 17°엉55'16 18°엉04'27 24°엉50'45 0°Ⅱ 3°Ⅱ31'46 0° 6°11'06	-1°25'28 1°24'31 18°43'40 3°33'32 3°33'25 0.65225 AU 27°00'25 1.34046 AU -0°33'43 0°33'21	superior conj minimum elong max. Earth dist. evening rise greatest brilliancy evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el desc. node morning set max. Earth dist. superior conj minimum elong asc. node evening rise evening rise	3540 Dec 16 09:55 3540 Dec 16 04:45 3540 Dec 18 22:10 3540 Dec 20 01:45 3541 Jan 01 17:26 3541 Jan 08 07:34 3541 Jan 13 17:30 3541 Jan 25 21:55 3541 Jan 29 23:10 3541 Feb 02 02:50 3541 Feb 11 02:45 3541 Feb 11 00:38 3541 Feb 12 08:14 3541 Feb 12 08:14 3541 Feb 12 08:14 3541 Feb 12 08:14 3541 Feb 12 01:21 3541 Mar 07 01:21 3541 Mar 08 06:41 3541 Mar 15 10:59 3541 Apr 04 11:35 3541 Apr 12 06:32 3541 Apr 12 06:32 3541 Apr 12 13:04 3541 Apr 21 13:04 3541 Apr 21 13:04 3541 Apr 21 16:22 3541 Apr 29 11:04 3541 May 05 14:32 3541 May 17 12:22	24° **14'33 23° **754'09 28° ***11'47 0° **5 19° *545'20 0° **8 **818'57 24° **846'15 28° **801'44 28° **855'01 27° **848'31 21° **855'27 20° **12'20 15° **35'06 12° **49'40 20° **13'12 21° **29'12 0° **7 13° *Y44'19 20° *Y59'21 0° **857'21 14° *847'15 17° *\$54'56 0° **II 17° *II6'42	0°40'04 1.45173 AU -0.7m 19°28'02 3°15'31 3°15'08 0.66509 AU 25°53'16 1.35612 AU -1°02'30 1°01'54
superior conj minimum elong evening rise evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el morning set max. Earth dist. superior conj minimum elong asc. node evening rise	3540 Jan 07 06:49 3540 Jan 06 21:41 3540 Jan 16 08:59 3540 Jan 22 15:18 3540 Feb 04 02:54 3540 Feb 12 14:07 3540 Feb 13 02:09 3540 Feb 19 06:02 3540 Feb 22 11:01 3540 Feb 28 03:45 3540 Feb 28 02:34 3540 Mar 01 00:15 3540 Mar 04 17:40 3540 Mar 11 09:33 3540 Mar 14 22:39 3540 Mar 14 22:39 3540 Mar 24 15:46 3540 Apr 11 08:20 3540 Apr 28 20:35 3540 Apr 29 08:52 3540 May 07 18:38 3540 May 07 18:38 3540 May 07 18:38 3540 May 11 01:27 3540 May 13 11:51 3540 May 15 04:10 3540 May 29 23:55	15°る36'47 15°る00'53 0°≈ 10°≈03'05 0°升 11°升16'04 11°升45'53 14°升58'33 13°升59'54 8°升21'01 8°升24'39 6°升05'23 2°升09'40 30°R≈ 29°≈18'36 0°升 4°升03'57 7°升05'35 0°Y 0°뭥 0°엉58'54 9°엉46'21 17°엉55'16 18°엉04'27 24°엉50'45 0°用 3°用31'46	-1°25'28 1°24'31 18°43'40 3°33'32 3°33'25 0.65225 AU 27°00'25 1.34046 AU -0°33'43 0°33'21	superior conj minimum elong max. Earth dist. evening rise greatest brilliancy evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el desc. node morning set max. Earth dist. superior conj minimum elong asc. node evening rise	3540 Dec 16 09:55 3540 Dec 16 04:45 3540 Dec 18 22:10 3540 Dec 20 01:45 3541 Jan 01 17:26 3541 Jan 08 07:34 3541 Jan 13 17:30 3541 Jan 25 21:55 3541 Jan 29 23:10 3541 Feb 02 02:50 3541 Feb 11 02:45 3541 Feb 11 00:38 3541 Feb 11 00:38 3541 Feb 12 08:14 3541 Feb 12 08:14 3541 Feb 12 08:14 3541 Feb 12 01:21 3541 Mar 07 01:21 3541 Mar 08 06:41 3541 Mar 15 10:59 3541 Apr 04 11:35 3541 Apr 12 06:32 3541 Apr 12 06:32 3541 Apr 20 17:04 3541 Apr 21 13:04 3541 Apr 21 13:04 3541 Apr 27 22:30 3541 Apr 29 11:04 3541 May 05 14:32	24°ズ14'33 23°ズ54'09 28°ズ11'47 0°उ 19°उ45'20 0°≈ 8°≈18'57 24°≈46'15 28°≈01'44 28°≈55'01 27°≈43'05 21°≈48'31 21°≈55'27 20°≈12'20 15°≈35'06 12°≈49'40 20°≈13'12 21°≈29'12 0°ϒ 13°ϒ44'19 20°ϒ59'21 0°℧ 1°℧40'42 1°℧57'21 14°℧47'15 17°℧54'56 0°Ⅱ	0°40'04 1.45173 AU -0.7m 19°28'02 3°15'31 3°15'08 0.66509 AU 25°53'16 1.35612 AU -1°02'30 1°01'54

desc. node	3541 Jun 04 05:54	20° Ⅲ 32'52		retrograde	3542 May 09 05:08	3° Ⅱ 24'53	
inferior conj	3541 Jun 08 05:58	18° Ⅱ 19'24	-1°10'55	evening set	3542 May 11 06:13	3° Ⅱ 12'15	
minimum elong	3541 Jun 08 02:38	18° Ⅱ 24′20	1°09'41	C	3542 May 18 03:59	30°R₩	
min. Earth dist.	3541 Jun 09 21:12	17° Ⅱ 21′29	0.55125 AU	inferior conj	3542 May 19 14:59	29° 8 01'59	0°43'16
morning rise	3541 Jun 17 00:13	14° Ⅱ 03'13		minimum elong	3542 May 19 16:43	28° 8 59'03	0°42'38
direct	3541 Jun 20 23:23	13° Ⅱ 29'10		desc. node	3542 May 22 02:55	27° 8 21'13	
morning max el	3541 Jul 04 13:20	20° Ⅲ 07′17	23°45'45	min. Earth dist.	3542 May 22 12:11	27° 8 06'06	0.56286 AU
	3541 Jul 12 22:01	0 \circ \odot		morning rise	3542 May 28 00:08	24° 8 11'02	
asc. node	3541 Jul 24 21:44	20°534'31		direct	3542 Jun 01 22:13	23° 8 14'56	
morning set	3541 Jul 28 15:03	28° © 13'42			3542 Jun 15 14:16	$\Pi^{\circ}0$	
	3541 Jul 29 11:07	$0^{\circ}\Omega$		morning max el	3542 Jun 16 03:31	0°Ⅲ31'14	25°25'34
					3542 Jul 06 14:03	0 \circ \odot	
superior conj	3541 Aug 04 15:14	13° Ω 19'12	1°31'46	asc. node	3542 Jul 11 18:48	10° © 19'58	
minimum elong	3541 Aug 04 13:11	13° Ω 08′06	1°31'34	morning set	3542 Jul 13 02:42	13° © 07'12	
max. Earth dist.	3541 Aug 06 21:11	18° Ω 08'26	1.33324 AU				
evening rise	3541 Aug 12 02:44	28° Ω 58'59		superior conj	3542 Jul 20 01:32	28° © 13'08	1°17'17
	3541 Aug 12 14:56	0° m		minimum elong	3542 Jul 19 23:11	28° © 00'15	1°16'56
	3541 Aug 29 18:38	0∘ ⊽			3542 Jul 20 21:03	0 $^{\circ}$ Ω	
desc. node	3541 Aug 31 05:13	2° ഫ 08'11		max. Earth dist.	3542 Jul 21 04:05		1.32508 AU
evening max el	3541 Sep 14 22:23		27°24'16	evening rise	3542 Jul 27 03:38	13° Ω 24'06	
retrograde	3541 Sep 28 12:07	27° £ 28'49			3542 Aug 04 17:24	0° m)	
evening set	3541 Oct 05 14:58	24° £ 49'05		desc. node	3542 Aug 18 02:13	21°Mp07'12	
min. Earth dist.	3541 Oct 09 07:57	21° ≏ 29'47	0.64019 AU		3542 Aug 25 08:31	0∘ ⊽	
inferior conj	3541 Oct 11 19:32	18° ≏ 54'47		evening max el	3542 Aug 28 06:54	2° ჲ 58'30	27°20'06
minimum elong	3541 Oct 12 00:20	18° ≏ 42'15	2°53'02	retrograde	3542 Sep 11 02:20	10° ≏ 13'47	
morning rise	3541 Oct 18 10:58	13° ≏ 32'50		evening set	3542 Sep 18 06:42	7° ≏ 47'47	
direct	3541 Oct 20 23:28	13° ≏ 01'05		min. Earth dist.	3542 Sep 21 21:07	4° ≏ 56'08	0.62213 AU
asc. node	3541 Oct 20 20:55	13° ≏ 01'09		inferior conj	3542 Sep 24 20:03	2° ≏ 11'42	
morning max el	3541 Oct 27 12:07	16° ≏ 26'27	17°53'36	minimum elong	3542 Sep 25 01:50	1° ≏ 58'16	3°50'16
	3541 Nov 06 04:17	0°M			3542 Sep 27 07:08	30°₽, TD)	
morning set	3541 Nov 13 09:15	12°M13'35		morning rise	3542 Oct 01 22:40	27° m 08'34	
	3541 Nov 23 22:35	0°⊀		direct	3542 Oct 04 07:54	26° m 43'31	
				asc. node	3542 Oct 07 17:59	27° m/36'42	
superior conj	3541 Nov 26 05:10	3°×743'20	0°06'42		3542 Oct 10 23:06	0∘ ʊ	15050110
minimum elong	3541 Nov 26 05:55	3° ₹ 46'23	0°06'36	morning max el	3542 Oct 11 03:58	0° Ω 11'50	17°52'10
behind sun begin	3541 Nov 25 20:44	3° ₹ 08'56		morning set	3542 Oct 27 02:51	25° Ω 07'23	
behind sun end	3541 Nov 26 15:07	4° ₹23'45			3542 Oct 29 20:04	0°M₊	
desc. node	3541 Nov 27 04:30	5° ₹ 18'01	1 11101 177		254233 05 02 41	1.4000 20145	00.4710.6
max. Earth dist.	3541 Dec 01 16:41	12° ₹ 32'00	1.44484 AU	superior conj	3542 Nov 07 02:41	14°M29'47	
evening rise	3541 Dec 12 04:39	28°♂55'55 0°る		minimum elong	3542 Nov 07 06:35	14°M46'25	0°46'34
	3541 Dec 12 21:20	0°≈		desc. node max. Earth dist.	3542 Nov 14 01:30	26°M05'30	1 42157 ATT
avanina may al	3542 Jan 02 04:57 3542 Jan 09 00:38	0°≈ 8°≈17'34	20°27'20	max. Earth dist.	3542 Nov 14 07:14	26°M28'50 0°⊀	1.43157 AU
evening max el asc. node	3542 Jan 16 20:12	8 ≈1734 13°≈00'28	20 27 20	evening rise	3542 Nov 16 11:28 3542 Nov 21 16:08	8° ₹ 13'22	
retrograde	3542 Jan 17 00:59	13°≈00'28 13°≈00'41		evening rise	3542 Nov 21 10.08 3542 Dec 06 03:16	0°る	
evening set	3542 Jan 20 21:40	13 ≈0041 11°≈34'29		evening max el	3542 Dec 00 03:10 3542 Dec 22 21:50	21°る50'19	21038125
inferior conj	3542 Jan 26 06:48	5°≈27'00	2°46'52	retrograde	3542 Dec 22 21:30 3542 Dec 31 22:24	21 3 3019 27° る 12'16	21 38 23
minimum elong	3542 Jan 26 04:18	5°≈35'32		asc. node	3543 Jan 03 17:13	26° る 30'06	
min. Earth dist.	3542 Jan 26 22:46		0.67379 AU	evening set	3543 Jan 05 05:23	25° る 30'40	
min. Burun Gibt.	3542 Jan 30 15:25	30°R₹	0.07577110	inferior conj	3543 Jan 10 13:41	19° る 13'35	2°09'38
morning rise	3542 Jan 31 10:44	29° る 13'21		minimum elong	3543 Jan 10 11:18	19° る 21'52	
direct	3542 Feb 06 01:57	26° පි 43'00		min. Earth dist.	3543 Jan 10 17:37	18° る 59'58	0.67856 AU
	3542 Feb 13 13:30	0°≈		morning rise	3543 Jan 15 17:02	13° る 01'28	
morning max el	3542 Feb 17 10:00	3°≈29'16	24°30'00	direct	3543 Jan 20 17:30	10° る 51'46	
desc. node	3542 Feb 23 03:43	9° ≈ 56'44	2.3000	morning max el	3543 Jan 30 19:21	16° る 50'34	23°01'00
	3542 Mar 09 16:35	0° ∀		desc. node	3543 Feb 10 00:44	29° る 08'56	
morning set	3542 Mar 25 08:56	25°) €29'50			3543 Feb 10 15:53	0° ≈	
5	3542 Mar 27 21:50	0°Υ			3543 Mar 02 18:06	0° ∀	
max. Earth dist.	3542 Mar 29 00:44	2° Υ 01'29	1.37570 AU	morning set	3543 Mar 06 09:56	5°) 59'58	
				max. Earth dist.	3543 Mar 10 19:33	13° ¥ 27'11	1.39739 AU
superior conj	3542 Apr 04 20:29	14° Y 49'26	-1°29'32				
minimum elong	3542 Apr 05 00:56	15° Ƴ 10'55	1°28'55	superior conj	3543 Mar 18 12:49	27° ¥ 11'58	-1°51'50
	3542 Apr 12 12:56	9° 8		minimum elong	3543 Mar 18 17:15	27°) 32′17	
evening rise	3542 Apr 13 12:02	1° 8 54'55		-	3543 Mar 20 01:12	0° Y	
asc. node	3542 Apr 14 19:32	4° 8 30'44		evening rise	3543 Mar 28 04:10	15° Y ′24'40	
evening max el	3542 Apr 30 05:42	29° 8 02'58	19°12'28	asc. node	3543 Apr 01 16:33	23° Y ′56'26	
	3542 May 01 06:33	$\Pi^{\circ}0$			3543 Apr 05 02:08	0° 8	

	2542 4 12 00 46	110	10021120		2544 4 02 12 54	2700045124	
evening max el	3543 Apr 13 08:46	11° 8 26'39	18°31′20	retrograde	3544 Apr 02 13:54	27° Y 45'34	
retrograde	3543 Apr 21 00:23	15° 8 12'34		evening set	3544 Apr 05 03:46	27° Y 16'38	
evening set	3543 Apr 23 07:48	14° 8 53'07		inferior conj	3544 Apr 11 23:27	22° Y ′26′28	3°05'37
inferior conj	3543 Apr 30 20:47	10° 8 23'56	2°10'42	minimum elong	3544 Apr 12 02:30	22° Y 19'29	3°05'03
minimum elong	3543 May 01 00:31	10° 8 16'35	2°09'39	min. Earth dist.	3544 Apr 15 07:17	19° Y 25′01	0.60270 AU
min. Earth dist.	3543 May 04 06:51	7° 8 43'43	0.58122 AU	morning rise	3544 Apr 18 23:00	16° Ƴ 39'07	
morning rise	3543 May 08 14:05	5° 8 00'07		desc. node	3544 Apr 24 20:57	14° Ƴ 36′07	
desc. node	3543 May 08 23:57	4° 8 48'18		direct	3544 Apr 25 13:10	14° Ƴ 34'51	
direct	3543 May 14 11:36	3° 8 31'05		morning max el	3544 May 09 20:19	22° Y °27′15	27°37'38
morning max el	3543 May 28 20:50	11° 8 10'57	26°47'05		3544 May 16 12:15	0° ႘	
	3543 Jun 12 10:37	$\Pi^{\circ}0$			3544 Jun 04 12:03	Π°	
morning set	3543 Jun 27 12:47	27° ∏ 54'32		morning set	3544 Jun 10 19:37	12° Ⅲ 30'31	
asc. node	3543 Jun 28 15:50	0°917'46		asc. node	3544 Jun 14 12:51	20° Ⅲ 23'18	
	3543 Jun 28 12:30	0°9		max. Earth dist.	3544 Jun 17 02:42	26° Ⅱ 00'09	1.32106 AU
	50 15 Van 20 12.50	0 0		man. Barur dige.	55 1. Cum 1, 02.12	20 200 07	1.52100110
superior conj	3543 Jul 04 13:15	13° © 08'53	0°58'29	superior conj	3544 Jun 18 00:40	28° Ⅱ 00'51	0°36'02
minimum elong	3543 Jul 04 11:05	12° © 56'55	0°58'05	minimum elong	3544 Jun 17 23:08	27° I 52'24	0°35'42
max. Earth dist.			1.32104 AU	minimum clong		0°95	0 33 42
	3543 Jul 04 15:06	13°5519'04	1.32104 AU		3544 Jun 18 22:19		
evening rise	3543 Jul 11 10:19	28°904'48		evening rise	3544 Jun 24 20:34	12° © 53'58	
	3543 Jul 12 08:21	$0^{\circ}\Omega$			3544 Jul 03 11:33	$0^{\circ}\Omega$	
	3543 Jul 29 02:59	0° m/		desc. node	3544 Jul 21 20:15	25° Ω 58′26	
desc. node	3543 Aug 04 23:14	9° Mp 11′22		evening max el	3544 Jul 22 05:41	26° Ω 21'10	25°33'53
evening max el	3543 Aug 10 09:55	15° Mp 03'41	26°42'36		3544 Jul 26 15:25	0° ™	
retrograde	3543 Aug 24 08:40	22° Mp 14'56		retrograde	3544 Aug 05 05:11	3° ™ 27'38	
evening set	3543 Aug 31 04:30	20° m 15'53		evening set	3544 Aug 11 03:42	2° Mp 05'10	
min. Earth dist.	3543 Sep 03 23:52	17° m 39'13	0.60190 AU		3544 Aug 14 21:15	30° R Ω	
inferior conj	3543 Sep 07 05:54	15° Mp 00'49	-4°39'10	min. Earth dist.	3544 Aug 15 17:41	29° Ω 26′05	0.58145 AU
minimum elong	3543 Sep 07 11:02	14° m 50'21	4°38'16	inferior conj	3544 Aug 18 21:37	27° Ω 12'33	-5°06'03
morning rise	3543 Sep 14 19:33	10° mp 19'13		minimum elong	3544 Aug 18 23:22	27°Ω09'26	
direct	3543 Sep 17 04:39	9° m 58'00		morning rise	3544 Aug 26 21:19	22°Ω53'52	0000
morning max el	3543 Sep 24 15:57	13° m 37'52	18°09'57	direct	3544 Aug 29 09:29	22° Ω 33'32	
•	•	-	16 0937		-		10040122
asc. node	3543 Sep 24 15:02	13° Tp 35'38		morning max el	3544 Sep 06 20:48	26° Ω 35'34	18-48-23
	3543 Oct 05 18:40	0∘ ⊽			3544 Sep 09 22:37	0° m)	
morning set	3543 Oct 10 11:53	8° ≏ 44'59		asc. node	3544 Sep 10 12:04	0° ™ 43′16	
				morning set	3544 Sep 23 07:41	22° m 53'38	
superior conj	3543 Oct 20 01:35	26° ≏ 30'03	1°16'31		3544 Sep 26 22:41	0∘ ⊽	
minimum elong	3543 Oct 20 05:38	26° ≏ 48'17	1°16'04				
	3543 Oct 22 00:35	0° M.		superior conj	3544 Oct 01 20:51	9° ≏ 30'20	1°34'49
max. Earth dist.	3543 Oct 27 16:46	9° ™ 49'13	1.41356 AU	minimum elong	3544 Oct 01 23:32	9° ≙ 43'02	1°34'38
desc. node	3543 Oct 31 22:31	16°M51'26		max. Earth dist.	3544 Oct 08 22:17	22° ≏ 28'13	1.39304 AU
evening rise	3543 Nov 01 19:09	18° M .15'17		evening rise	3544 Oct 12 21:08	29° ≏ 20'20	
Č	3543 Nov 09 06:09	0° √		Č	3544 Oct 13 06:28	0°M	
	3543 Nov 30 17:23	0° ਰ		desc. node	3544 Oct 17 19:33	7°M32'21	
evening max el	3543 Dec 05 14:16	。 5° る 25'22	22°56'46	desc. Hode	3544 Nov 01 16:34	0° √	
retrograde	3543 Dec 05 14:10 3543 Dec 15 17:21	11° පි 25'48	22 30 40	evening max el	3544 Nov 17 03:40	19° ∡ *04'05	24°16'27
Č		9° る 27'59		•	3544 Nov 28 08:45	25°×738'09	24 1027
evening set	3543 Dec 20 12:27	9 3 2739 8° 3 28'24		retrograde			
asc. node	3543 Dec 21 14:15		1005115	evening set	3544 Dec 03 17:18	23° x ⁷ 24'06	
inferior conj	3543 Dec 25 21:27	3° る 04'57		asc. node	3544 Dec 07 11:17	19° ₹ 15'50	0.65500.444
minimum elong	3543 Dec 25 19:38	3° る 11'14	1°24'34	min. Earth dist.	3544 Dec 08 10:24	17° ₹ 59'26	0.67722 AU
min. Earth dist.	3543 Dec 25 14:16	3° る 29'44	0.67965 AU	inferior conj	3544 Dec 09 04:20	16° ≯ 59'08	0°34'53
	3543 Dec 28 04:50	30°Ŗ ⋌ ¹		minimum elong	3544 Dec 09 03:30	17° ∡ *01'56	0°34'32
morning rise	3543 Dec 31 02:42	26° ₹ 56'16		morning rise	3544 Dec 14 13:45	10° ∡ 55'59	
direct				direct		9° ∡ ³31′23	
	3544 Jan 04 12:36	25° ₹ 09'26		direct	3544 Dec 18 10:10	7 7 31 23	
	3544 Jan 04 12:36 3544 Jan 13 01:11	25°メ09'26 0°る		morning max el	3544 Dec 18 10:10 3544 Dec 26 05:56	13° × 759'44	20°19'47
morning max el			21°35'24				20°19'47
morning max el desc. node	3544 Jan 13 01:11	ರ°0	21°35'24		3544 Dec 26 05:56	13° ∡ 759'44	20°19'47
•	3544 Jan 13 01:11 3544 Jan 13 08:58 3544 Jan 27 21:45	0°る 0°る19'20 18°る52'46	21°35'24	morning max el desc. node	3544 Dec 26 05:56 3545 Jan 07 16:23 3545 Jan 13 18:46	13° メ 59'44 0°る 8°る59'41	20°19'47
desc. node	3544 Jan 13 01:11 3544 Jan 13 08:58 3544 Jan 27 21:45 3544 Feb 04 11:15	0°る 0°る19'20 18°る52'46 0°≈	21°35′24	morning max el	3544 Dec 26 05:56 3545 Jan 07 16:23 3545 Jan 13 18:46 3545 Jan 23 04:34	13° メ 59'44 0°る 8°る59'41 23°る19'51	20°19'47
desc. node morning set	3544 Jan 13 01:11 3544 Jan 13 08:58 3544 Jan 27 21:45 3544 Feb 04 11:15 3544 Feb 14 05:55	0°궁 0°궁19'20 18°궁52'46 0°≈ 15°≈07'26		morning max el desc. node morning set	3544 Dec 26 05:56 3545 Jan 07 16:23 3545 Jan 13 18:46 3545 Jan 23 04:34 3545 Jan 27 11:16	13°メ59'44 0°る 8°る59'41 23°る19'51 0°≈	
desc. node	3544 Jan 13 01:11 3544 Jan 13 08:58 3544 Jan 27 21:45 3544 Feb 04 11:15 3544 Feb 14 05:55 3544 Feb 20 19:19	0°♂ 0°♂19'20 18°♂52'46 0°≈ 15°≈07'26 25°≈45'17	21°35′24 1.41838 AU	morning max el desc. node	3544 Dec 26 05:56 3545 Jan 07 16:23 3545 Jan 13 18:46 3545 Jan 23 04:34	13° メ 59'44 0°る 8°る59'41 23°る19'51	20°19'47 1.43584 AU
desc. node morning set	3544 Jan 13 01:11 3544 Jan 13 08:58 3544 Jan 27 21:45 3544 Feb 04 11:15 3544 Feb 14 05:55	0°궁 0°궁19'20 18°궁52'46 0°≈ 15°≈07'26		morning max el desc. node morning set max. Earth dist.	3544 Dec 26 05:56 3545 Jan 07 16:23 3545 Jan 13 18:46 3545 Jan 23 04:34 3545 Jan 27 11:16 3545 Feb 02 03:12	13° ₹59'44 0° で 8° で559'41 23° で19'51 0° ≈ 8° ≈59'36	1.43584 AU
desc. node morning set max. Earth dist.	3544 Jan 13 01:11 3544 Jan 13 08:58 3544 Jan 27 21:45 3544 Feb 04 11:15 3544 Feb 14 05:55 3544 Feb 20 19:19 3544 Feb 23 08:24	0°る 0°る19′20 18°る52′46 0°≈ 15°≈07′26 25°≈45′17 0°光	1.41838 AU	morning max el desc. node morning set max. Earth dist. superior conj	3544 Dec 26 05:56 3545 Jan 07 16:23 3545 Jan 13 18:46 3545 Jan 23 04:34 3545 Jan 27 11:16 3545 Feb 02 03:12 3545 Feb 08 04:31	13° ₹59'44 0° ♂ 8° ♂59'41 23° ♂19'51 0° ≈ 8° ≈59'36 18° ≈51'32	1.43584 AU -2°04'39
desc. node morning set max. Earth dist. superior conj	3544 Jan 13 01:11 3544 Jan 13 08:58 3544 Jan 27 21:45 3544 Feb 04 11:15 3544 Feb 14 05:55 3544 Feb 20 19:19 3544 Feb 23 08:24	0°ට 0°ට19'20 18°ට52'46 0°≈ 15°≈07'26 25°≈45'17 0° 升	1.41838 AU -2°05'18	morning max el desc. node morning set max. Earth dist.	3544 Dec 26 05:56 3545 Jan 07 16:23 3545 Jan 13 18:46 3545 Jan 23 04:34 3545 Jan 27 11:16 3545 Feb 02 03:12 3545 Feb 08 04:31 3545 Feb 08 01:28	13° \$759'44 0° る 8° る59'41 23° る19'51 0° 念 8° 念59'36 18° 念51'32 18° 念38'53	1.43584 AU -2°04'39
desc. node morning set max. Earth dist. superior conj minimum elong	3544 Jan 13 01:11 3544 Jan 13 08:58 3544 Jan 27 21:45 3544 Feb 04 11:15 3544 Feb 14 05:55 3544 Feb 20 19:19 3544 Feb 23 08:24 3544 Feb 28 09:06 3544 Feb 28 11:12	0°る 0°る19'20 18°る52'46 0°≈ 15°≈07'26 25°≈45'17 0°升 8°升36'17 8°升45'27	1.41838 AU -2°05'18	morning max el desc. node morning set max. Earth dist. superior conj minimum elong	3544 Dec 26 05:56 3545 Jan 07 16:23 3545 Jan 13 18:46 3545 Jan 23 04:34 3545 Jan 27 11:16 3545 Feb 02 03:12 3545 Feb 08 04:31 3545 Feb 08 01:28 3545 Feb 14 19:35	13° \$759'44 0° る 8° る59'41 23° る19'51 0° 念 8° 念59'36 18° 念51'32 18° 念38'53 0° 米	1.43584 AU -2°04'39
desc. node morning set max. Earth dist. superior conj	3544 Jan 13 01:11 3544 Jan 13 08:58 3544 Jan 27 21:45 3544 Feb 04 11:15 3544 Feb 14 05:55 3544 Feb 20 19:19 3544 Feb 23 08:24 3544 Feb 28 09:06 3544 Feb 28 11:12 3544 Mar 10 07:47	0°る 0°る19'20 18°る52'46 0°≈ 15°≈07'26 25°≈45'17 0°升 8°升36'17 8°升45'27 28°升15'23	1.41838 AU -2°05'18	morning max el desc. node morning set max. Earth dist. superior conj	3544 Dec 26 05:56 3545 Jan 07 16:23 3545 Jan 13 18:46 3545 Jan 23 04:34 3545 Jan 27 11:16 3545 Feb 02 03:12 3545 Feb 08 04:31 3545 Feb 08 01:28 3545 Feb 14 19:35 3545 Feb 20 18:38	13° \$759'44 0° る 8° る59'41 23° る19'51 0° 念 8° 念59'36 18° 念51'32 18° 念38'53 0° 光 10° 光 18'04	1.43584 AU -2°04'39
desc. node morning set max. Earth dist. superior conj minimum elong evening rise	3544 Jan 13 01:11 3544 Jan 13 08:58 3544 Jan 27 21:45 3544 Feb 04 11:15 3544 Feb 14 05:55 3544 Feb 20 19:19 3544 Feb 23 08:24 3544 Feb 28 09:06 3544 Feb 28 11:12 3544 Mar 10 07:47 3544 Mar 11 06:38	0°る19'20 18°る52'46 0°≈ 15°≈07'26 25°≈45'17 0°升 8°升36'17 8°升45'27 28°升15'23 0°℃	1.41838 AU -2°05'18	morning max el desc. node morning set max. Earth dist. superior conj minimum elong evening rise	3544 Dec 26 05:56 3545 Jan 07 16:23 3545 Jan 13 18:46 3545 Jan 23 04:34 3545 Jan 27 11:16 3545 Feb 02 03:12 3545 Feb 08 04:31 3545 Feb 08 01:28 3545 Feb 14 19:35 3545 Feb 20 18:38 3545 Mar 04 11:00	13° \$759'44 0° る 8° る59'41 23° る19'51 0° 念 8° 念59'36 18° 念51'32 18° 念38'53 0° 光 10° 光 18'04 0° Ŷ	1.43584 AU -2°04'39
desc. node morning set max. Earth dist. superior conj minimum elong	3544 Jan 13 01:11 3544 Jan 13 08:58 3544 Jan 27 21:45 3544 Feb 04 11:15 3544 Feb 14 05:55 3544 Feb 20 19:19 3544 Feb 23 08:24 3544 Feb 28 09:06 3544 Feb 28 11:12 3544 Mar 10 07:47	0°る 0°る19'20 18°る52'46 0°≈ 15°≈07'26 25°≈45'17 0° 米 8° ₭36'17 8° ₭45'27 28° ₭ 15'23 0° ♀ 12°♀58'12	1.41838 AU -2°05'18 2°05'14	morning max el desc. node morning set max. Earth dist. superior conj minimum elong	3544 Dec 26 05:56 3545 Jan 07 16:23 3545 Jan 13 18:46 3545 Jan 23 04:34 3545 Jan 27 11:16 3545 Feb 02 03:12 3545 Feb 08 04:31 3545 Feb 08 01:28 3545 Feb 14 19:35 3545 Feb 20 18:38	13° \$759'44 0° る 8° る59'41 23° る19'51 0° ≈ 8° ≈59'36 18° ≈51'32 18° ≈38'53 0° ¥ 10° ¥ 18'04 0° Ŷ 1° Ŷ27'43	1.43584 AU -2°04'39 2°04'33
desc. node morning set max. Earth dist. superior conj minimum elong evening rise	3544 Jan 13 01:11 3544 Jan 13 08:58 3544 Jan 27 21:45 3544 Feb 04 11:15 3544 Feb 14 05:55 3544 Feb 20 19:19 3544 Feb 23 08:24 3544 Feb 28 09:06 3544 Feb 28 11:12 3544 Mar 10 07:47 3544 Mar 11 06:38	0°る19'20 18°る52'46 0°≈ 15°≈07'26 25°≈45'17 0°升 8°升36'17 8°升45'27 28°升15'23 0°℃	1.41838 AU -2°05'18 2°05'14	morning max el desc. node morning set max. Earth dist. superior conj minimum elong evening rise	3544 Dec 26 05:56 3545 Jan 07 16:23 3545 Jan 13 18:46 3545 Jan 23 04:34 3545 Jan 27 11:16 3545 Feb 02 03:12 3545 Feb 08 04:31 3545 Feb 08 01:28 3545 Feb 14 19:35 3545 Feb 20 18:38 3545 Mar 04 11:00	13° \$759'44 0° で 8° でで 559'41 23° で 19'51 0° ※ 8° ※ 59'36 18° ※ 51'32 18° ※ 38'53 0° 光 10° 光 18'04 0° ヤ 1° ヤ 27'43	1.43584 AU -2°04'39

. 1	2545 M 16 17 26	1000052120			2546 E 1 02 00 25	21026102	
retrograde	3545 Mar 16 17:36	10°Υ52'29		evening rise	3546 Feb 02 08:35	21°≈26′02	
evening set	3545 Mar 19 13:12	10°Υ12'46			3546 Feb 07 12:28	0° ∀	
inferior conj	3545 Mar 25 19:32		3°32'33	asc. node	3546 Feb 20 07:38	19° 米 15'35	
minimum elong	3545 Mar 25 20:50	4° Y 58'50	3°32'26	evening max el	3546 Feb 21 18:55	20° 米 51'46	18°25'39
min. Earth dist.	3545 Mar 28 16:01	2° Υ 04'12	0.62404 AU	retrograde	3546 Feb 28 06:51	24° ¥ 24'13	
	3545 Mar 30 21:17	30°Ŗ ℋ		evening set	3546 Mar 03 08:09	23° ¥ 32'50	
morning rise	3545 Apr 01 03:10	29°) €00'35		inferior conj	3546 Mar 09 04:55	18° ∺ 03'43	3°37'57
direct	3545 Apr 08 00:26	26° ∺ 27'58		minimum elong	3546 Mar 09 04:31	18°) €04'54	3°37'57
desc. node	3545 Apr 11 17:59	27° ₩ 08'11		min. Earth dist.	3546 Mar 11 10:24	15° ∺ 28'37	0.64295 AU
	3545 Apr 16 23:28	$0^{\circ}\mathbf{\Upsilon}$		morning rise	3546 Mar 15 00:11	11°) 54′25	
morning max el	3545 Apr 22 01:50	4° Y 25'46	27°51'02	direct	3546 Mar 21 19:54	9° ₩ 05'57	
C	3545 May 11 04:40	0°B		desc. node	3546 Mar 29 15:01	12° ¥ 00'59	
morning set	3545 May 25 21:07	26° 8 47'29		morning max el	3546 Apr 04 11:03	17° ¥ 00'53	27°27'59
	3545 May 27 10:43	0°II			3546 Apr 15 06:13	0° Υ	_, _, _,
max. Earth dist.	3545 May 31 10:49	8° Ⅱ 27'09	1.32515 AU		3546 May 04 00:08	0°8	
asc. node	3545 Jun 01 09:53	10° Д 31'30	1.32313 AU	morning set	3546 May 09 14:42	10° 8 37'46	
asc. node	3343 Juli 01 09.33	10 Д3130		max. Earth dist.	•	20° 8 27'56	1.33356 AU
	2545 1 02 10 00	100TI 40112	0010122	max. Earm dist.	3546 May 14 11:25	20 02/30	1.33330 AU
superior conj	3545 Jun 02 10:00	12° Ⅱ 42'13	0°10'33				
minimum elong	3545 Jun 02 09:30	12° Ⅲ 39'31	0°10'26	superior conj	3546 May 17 15:24	27° 8 07'26	
behind sun begin	3545 Jun 02 05:34	12° Ⅱ 18'07		minimum elong	3546 May 17 16:16	27° 8 12'04	0°16'59
behind sun end	3545 Jun 02 13:26	13° Ⅱ 00'56			3546 May 18 23:45	Π °0	
evening rise	3545 Jun 09 08:20	27° ∏ 43'44		asc. node	3546 May 19 06:56	0°Ⅱ38'32	
	3545 Jun 10 10:08	0ಂ ತಾ		evening rise	3546 May 24 19:45	12° Ⅱ 28′09	
	3545 Jun 27 16:45	$0^{\circ}\Omega$			3546 Jun 02 18:47	0 \circ \odot	
evening max el	3545 Jul 03 19:26	6° Ω 58'15	24°03'30	evening max el	3546 Jun 15 09:45	17° 5 23'09	22°26'41
desc. node	3545 Jul 08 17:17	10° Ω 57′23		desc. node	3546 Jun 25 14:18	23°533'20	
retrograde	3545 Jul 17 14:03	13° Ω 54'29		retrograde	3546 Jun 28 11:01	23° © 52'12	
evening set	3545 Jul 22 03:12	13° Ω 08'41		evening set	3546 Jul 01 12:43	23°931'23	
min. Earth dist.	3545 Jul 28 05:55	10° Ω 09'35	0.56358 AU	min. Earth dist.	3546 Jul 09 16:47	19°958'35	0.55170 AU
inferior conj	3545 Jul 30 17:02	8° Ω 38'31		inferior conj	3546 Jul 10 18:39	19° © 21'54	
minimum elong	3545 Jul 30 17:02	8° Ω 44'46	4°57'31	minimum elong	3546 Jul 10 10:25	19°933'35	3°59'30
_		4°Ω39'44	4 3/31	-		15° © 31'09	3 39 30
morning rise	3545 Aug 08 01:25			morning rise	3546 Jul 19 10:11		
direct	3545 Aug 10 18:55	4° Ω 20'22	10010100	direct	3546 Jul 22 10:53	15°5510'19	21000121
morning max el	3545 Aug 20 15:33	8° Ω 55'12	19°48'29	morning max el	3546 Aug 02 22:41	20° © 31'04	21°09'21
asc. node	3545 Aug 28 09:06	18° Ω 44'23			3546 Aug 10 17:30	0 \circ Ω	
	3545 Sep 03 17:23	O° Mp		asc. node	3546 Aug 15 06:10	7° Ω 26'44	
morning set	3545 Sep 07 10:50	7° Mp 23′13		morning set	3546 Aug 22 18:46	22° Ω 06'51	
					3546 Aug 26 13:23	0° m y	
superior conj	3545 Sep 15 07:05	23° Mp 14'55	1°43'26				
minimum elong	3545 Sep 15 08:01	23° Mp 19'36	1°43'25	superior conj	3546 Aug 30 03:53	7° Mp 31'02	1°44'00
	3545 Sep 18 17:52	0∘ ⊽		minimum elong	3546 Aug 30 03:18	7° m 28'02	1°43'59
max. Earth dist.	3545 Sep 21 03:04	4° £ 31'45	1.37251 AU	max. Earth dist.	3546 Sep 03 12:38	16° m 22'11	1.35429 AU
evening rise	3545 Sep 24 21:44	11° ≏ 27'52		evening rise	3546 Sep 07 17:12	24° m) 28'51	
desc. node	3545 Oct 04 16:36	28° ≏ 03'44		evening rise	3546 Sep 10 16:47	0∘ ⊽	
dese. Hode	3545 Oct 04 10:50 3545 Oct 05 21:52	0°M		desc. node	3340 Sep 10 10.47		
	3545 Oct 27 23:49	0° ⊼ 7			35/16 San 21 13:30	1 8° Ω 20'06	
	3.34.3 UCL Z/ Z3.49			desc. Hode	3546 Sep 21 13:39	18° £ 20'06	
evening max el			25920141		3546 Sep 29 11:19	0° M ₊	26922100
	3545 Oct 30 15:53	2° ∡ ¹45'25	25°30'41	evening max el	3546 Sep 29 11:19 3546 Oct 13 04:13	0°ጤ 16°ጤ25'04	26°32'00
retrograde	3545 Oct 30 15:53 3545 Nov 11 19:46	2° х 45′25 9° х 44′46	25°30'41	evening max el retrograde	3546 Sep 29 11:19 3546 Oct 13 04:13 3546 Oct 26 01:48	0°M 16°M25'04 23°M38'53	26°32'00
evening set	3545 Oct 30 15:53 3545 Nov 11 19:46 3545 Nov 17 18:18	2° 尽 45'25 9° 尽 44'46 7° 尽 16'14		evening max el retrograde evening set	3546 Sep 29 11:19 3546 Oct 13 04:13 3546 Oct 26 01:48 3546 Nov 01 13:31	0°M 16°M25'04 23°M38'53 21°M00'08	
evening set min. Earth dist.	3545 Nov 11 19:46 3545 Nov 17 18:18 3545 Nov 22 03:42	2° 🖈 45'25 9° 🖈 44'46 7° 🖈 16'14 2° 🖈 26'21	0.67129 AU	evening max el retrograde evening set min. Earth dist.	3546 Sep 29 11:19 3546 Oct 13 04:13 3546 Oct 26 01:48 3546 Nov 01 13:31 3546 Nov 05 15:52	0°M 16°M25'04 23°M38'53 21°M00'08 16°M45'56	0.66190 AU
evening set min. Earth dist. inferior conj	3545 Nov 11 19:46 3545 Nov 17 18:18 3545 Nov 22 03:42 3545 Nov 23 08:34	2° 🖈 45'25 9° 🖈 44'46 7° 🖈 16'14 2° 🖈 26'21 0° 🖈 53'40	0.67129 AU -0°20'23	evening max el retrograde evening set min. Earth dist. inferior conj	3546 Sep 29 11:19 3546 Oct 13 04:13 3546 Oct 26 01:48 3546 Nov 01 13:31 3546 Nov 05 15:52 3546 Nov 07 08:12	0°M 16°M25'04 23°M38'53 21°M00'08 16°M45'56 14°M44'41	0.66190 AU -1°19'19
evening set min. Earth dist.	3545 Nov 11 19:46 3545 Nov 17 18:18 3545 Nov 22 03:42	2° \$\times^445'25 9° \$\times^444'46 7° \$\times^16'14 2° \$\times^226'21 0° \$\times^53'40 0° \$\times^551'59	0.67129 AU -0°20'23	evening max el retrograde evening set min. Earth dist. inferior conj minimum elong	3546 Sep 29 11:19 3546 Oct 13 04:13 3546 Oct 26 01:48 3546 Nov 01 13:31 3546 Nov 05 15:52	0°M 16°M25'04 23°M38'53 21°M00'08 16°M45'56 14°M44'41	0.66190 AU -1°19'19
evening set min. Earth dist. inferior conj	3545 Nov 11 19:46 3545 Nov 17 18:18 3545 Nov 22 03:42 3545 Nov 23 08:34	2° 🖈 45'25 9° 🖈 44'46 7° 🖈 16'14 2° 🖈 26'21 0° 🖈 53'40	0.67129 AU -0°20'23	evening max el retrograde evening set min. Earth dist. inferior conj	3546 Sep 29 11:19 3546 Oct 13 04:13 3546 Oct 26 01:48 3546 Nov 01 13:31 3546 Nov 05 15:52 3546 Nov 07 08:12	0°M 16°M25'04 23°M38'53 21°M00'08 16°M45'56 14°M44'41	0.66190 AU -1°19'19
evening set min. Earth dist. inferior conj minimum elong	3545 Nov 11 19:46 3545 Nov 17 18:18 3545 Nov 22 03:42 3545 Nov 23 08:34 3545 Nov 23 09:05	2° \$\times^445'25 9° \$\times^444'46 7° \$\times^16'14 2° \$\times^226'21 0° \$\times^53'40 0° \$\times^551'59	0.67129 AU -0°20'23	evening max el retrograde evening set min. Earth dist. inferior conj minimum elong	3546 Sep 29 11:19 3546 Oct 13 04:13 3546 Oct 26 01:48 3546 Nov 01 13:31 3546 Nov 05 15:52 3546 Nov 07 08:12 3546 Nov 07 10:22	0°M 16°M25'04 23°M38'53 21°M00'08 16°M45'56 14°M44'41	0.66190 AU -1°19'19
evening set min. Earth dist. inferior conj minimum elong	3545 Oct 30 15:53 3545 Nov 11 19:46 3545 Nov 17 18:18 3545 Nov 22 03:42 3545 Nov 23 08:34 3545 Nov 23 09:05 3545 Nov 24 08:19	2° \$\times^445'25 9° \$\times^444'46 7° \$\times^16'14 2° \$\times^226'21 0° \$\times^53'40 0° \$\times^51'59 29° \$\times^38'06	0.67129 AU -0°20'23	evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node	3546 Sep 29 11:19 3546 Oct 13 04:13 3546 Oct 26 01:48 3546 Nov 01 13:31 3546 Nov 05 15:52 3546 Nov 07 08:12 3546 Nov 07 10:22 3546 Nov 11 05:23	0°M. 16°M.25'04 23°M.38'53 21°M.00'08 16°M.45'56 14°M.44'41 14°M.38'10 10°M.31'23	0.66190 AU -1°19'19
evening set min. Earth dist. inferior conj minimum elong asc. node	3545 Nov 11 19:46 3545 Nov 17 18:18 3545 Nov 22 03:42 3545 Nov 23 08:34 3545 Nov 23 09:05 3545 Nov 24 08:19 3545 Nov 24 01:22	2° \$\times^445'25 9° \$\times^444'46 7° \$\times^16'14 2° \$\times^226'21 0° \$\times^53'40 0° \$\times^55'59 29° \$\textbf{M}.38'06 30° \$\textbf{M}.	0.67129 AU -0°20'23	evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node morning rise	3546 Sep 29 11:19 3546 Oct 13 04:13 3546 Oct 26 01:48 3546 Nov 01 13:31 3546 Nov 05 15:52 3546 Nov 07 08:12 3546 Nov 07 10:22 3546 Nov 11 05:23 3546 Nov 13 07:52	0°M. 16°M.25'04 23°M.38'53 21°M.00'08 16°M.45'56 14°M.44'41 14°M.38'10 10°M.31'23 8°M.59'46	0.66190 AU -1°19'19
evening set min. Earth dist. inferior conj minimum elong asc. node morning rise	3545 Nov 11 19:46 3545 Nov 17 18:18 3545 Nov 22 03:42 3545 Nov 23 08:34 3545 Nov 23 09:05 3545 Nov 24 08:19 3545 Nov 24 01:22 3545 Nov 29 00:11	2° \$\times^445'25 9° \$\times^444'46 7° \$\times^16'14 2° \$\times^226'21 0° \$\times^53'40 0° \$\times^55'159 29° \$\times^38'06 30° \$\times^8\$\times^22	0.67129 AU -0°20'23	evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node morning rise direct	3546 Sep 29 11:19 3546 Oct 13 04:13 3546 Oct 26 01:48 3546 Nov 01 13:31 3546 Nov 05 15:52 3546 Nov 07 08:12 3546 Nov 07 10:22 3546 Nov 11 05:23 3546 Nov 13 07:52 3546 Nov 16 06:43	0°M. 16°M.25'04 23°M.38'53 21°M.00'08 16°M.45'56 14°M.44'41 14°M.38'10 10°M.31'23 8°M.59'46 8°M.10'46	0.66190 AU -1°19'19 1°18'24
evening set min. Earth dist. inferior conj minimum elong asc. node morning rise direct	3545 Nov 11 19:46 3545 Nov 17 18:18 3545 Nov 22 03:42 3545 Nov 23 08:34 3545 Nov 23 09:05 3545 Nov 24 08:19 3545 Nov 24 01:22 3545 Nov 29 00:11 3545 Dec 02 08:46	2° \$\times^445'25 9° \$\times^444'46 7° \$\times^16'14 2° \$\times^226'21 0° \$\times^53'40 0° \$\times^55'159 29° \$\text{M.38'06} 30° R\$\text{M.} 24° \$\text{M.58'22} 23° \$\text{M.53'25}	0.67129 AU -0°20'23 0°20'10	evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node morning rise direct morning max el	3546 Sep 29 11:19 3546 Oct 13 04:13 3546 Oct 26 01:48 3546 Nov 01 13:31 3546 Nov 05 15:52 3546 Nov 07 08:12 3546 Nov 07 10:22 3546 Nov 11 05:23 3546 Nov 13 07:52 3546 Nov 16 06:43 3546 Nov 22 22:15	0°M. 16°M.25'04 23°M.38'53 21°M.00'08 16°M.45'56 14°M.44'41 14°M.38'10 10°M.31'23 8°M.59'46 8°M.10'46 11°M.49'02	0.66190 AU -1°19'19 1°18'24
evening set min. Earth dist. inferior conj minimum elong asc. node morning rise direct morning max el	3545 Nov 11 19:46 3545 Nov 17 18:18 3545 Nov 22 03:42 3545 Nov 23 08:34 3545 Nov 23 09:05 3545 Nov 24 08:19 3545 Nov 24 01:22 3545 Nov 29 00:11 3545 Dec 02 08:46 3545 Dec 09 10:53 3545 Dec 11 10:22	2° \$\times^445'25 9° \$\times^444'46 7° \$\times^16'14 2° \$\times^226'21 0° \$\times^55'159 29° \$\text{M.38'06} 30° \$\text{R}\times 24° \$\text{M.58'22} 23° \$\text{M.53'25} 27° \$\text{M.51'19} 0° \$\text{N}\$	0.67129 AU -0°20'23 0°20'10	evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node morning rise direct morning max el	3546 Sep 29 11:19 3546 Oct 13 04:13 3546 Oct 26 01:48 3546 Nov 01 13:31 3546 Nov 05 15:52 3546 Nov 07 08:12 3546 Nov 07 10:22 3546 Nov 11 05:23 3546 Nov 13 07:52 3546 Nov 16 06:43 3546 Nov 22 22:15 3546 Dec 05 23:36 3546 Dec 13 04:14	0°M. 16°M.25'04 23°M.38'53 21°M.00'08 16°M.45'56 14°M.44'41 14°M.38'10 10°M.31'23 8°M.59'46 8°M.10'46 11°M.49'02 0° ✓ 11° ✓ 26'58	0.66190 AU -1°19'19 1°18'24
evening set min. Earth dist. inferior conj minimum elong asc. node morning rise direct morning max el greatest brilliancy	3545 Nov 11 19:46 3545 Nov 17 18:18 3545 Nov 22 03:42 3545 Nov 23 08:34 3545 Nov 23 09:05 3545 Nov 24 08:19 3545 Nov 24 01:22 3545 Nov 29 00:11 3545 Dec 02 08:46 3545 Dec 09 10:53 3545 Dec 11 10:22 3545 Dec 23 01:15	2° \$\times^445'25 9° \$\times^444'46 7° \$\times^16'14 2° \$\times^253'40 0° \$\times^551'59 29° \$\text{M.38'06} 30° R\$\text{M.} 24° \$\text{M.58'22} 23° \$\text{M.53'25} 27° \$\text{M.51'19} 0° \$\text{N.} 16° \$\text{N.} 10'19	0.67129 AU -0°20'23 0°20'10	evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node morning rise direct morning max el	3546 Sep 29 11:19 3546 Oct 13 04:13 3546 Oct 26 01:48 3546 Nov 01 13:31 3546 Nov 05 15:52 3546 Nov 07 08:12 3546 Nov 07 10:22 3546 Nov 11 05:23 3546 Nov 13 07:52 3546 Nov 16 06:43 3546 Nov 22 22:15 3546 Dec 05 23:36 3546 Dec 13 04:14 3546 Dec 18 12:52	0°M. 16°M.25'04 23°M.38'53 21°M.00'08 16°M.45'56 14°M.44'41 14°M.38'10 10°M.31'23 8°M.59'46 8°M.10'46 11°M.49'02 0° 🗷 11° 🗷 26'58 19° 🗷 58'36	0.66190 AU -1°19'19 1°18'24
evening set min. Earth dist. inferior conj minimum elong asc. node morning rise direct morning max el	3545 Nov 11 19:46 3545 Nov 11 19:46 3545 Nov 17 18:18 3545 Nov 22 03:42 3545 Nov 23 09:05 3545 Nov 24 08:19 3545 Nov 24 01:22 3545 Nov 29 00:11 3545 Dec 02 08:46 3545 Dec 09 10:53 3545 Dec 11 10:22 3545 Dec 23 01:15 3545 Dec 31 15:49	2° \$\times^445'25 9° \$\times^444'46 7° \$\times^16'14 2° \$\times^226'21 0° \$\times^551'59 29° \$\times^38'06 30° RM 24° \$\times^58'22 23° \$\times^53'25 27° \$\times^51'19 0° \$\times^110'19 29° \$\times^223'27	0.67129 AU -0°20'23 0°20'10	evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node morning rise direct morning max el	3546 Sep 29 11:19 3546 Oct 13 04:13 3546 Oct 26 01:48 3546 Nov 01 13:31 3546 Nov 05 15:52 3546 Nov 07 08:12 3546 Nov 07 10:22 3546 Nov 11 05:23 3546 Nov 13 07:52 3546 Nov 16 06:43 3546 Nov 22 22:15 3546 Dec 05 23:36 3546 Dec 13 04:14	0°M. 16°M.25'04 23°M.38'53 21°M.00'08 16°M.45'56 14°M.44'41 14°M.38'10 10°M.31'23 8°M.59'46 8°M.10'46 11°M.49'02 0° ✓ 11° ✓ 26'58	0.66190 AU -1°19'19 1°18'24
evening set min. Earth dist. inferior conj minimum elong asc. node morning rise direct morning max el greatest brilliancy desc. node	3545 Nov 10 15:53 3545 Nov 11 19:46 3545 Nov 17 18:18 3545 Nov 22 03:42 3545 Nov 23 08:34 3545 Nov 23 09:05 3545 Nov 24 08:19 3545 Nov 24 01:22 3545 Nov 29 00:11 3545 Dec 02 08:46 3545 Dec 09 10:53 3545 Dec 11 10:22 3545 Dec 23 01:15 3545 Dec 31 15:49 3546 Jan 01 01:15	2° \$\times^445'25 9° \$\times^444'46 7° \$\times^16'14 2° \$\times^226'21 0° \$\times^551'59 29° \$\times^38'06 30° RM 24° \$\times^58'22 23° \$\times^53'25 27° \$\times^51'19 0° \$\times^110'19 29° \$\times^223'27 0° \$\times^5	0.67129 AU -0°20'23 0°20'10	evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node morning rise direct morning max el morning set desc. node	3546 Sep 29 11:19 3546 Oct 13 04:13 3546 Oct 26 01:48 3546 Nov 01 13:31 3546 Nov 05 15:52 3546 Nov 07 08:12 3546 Nov 07 10:22 3546 Nov 11 05:23 3546 Nov 13 07:52 3546 Nov 16 06:43 3546 Nov 22 22:15 3546 Dec 05 23:36 3546 Dec 13 04:14 3546 Dec 18 12:52 3546 Dec 24 21:14	0°M. 16°M.25'04 23°M.38'53 21°M.00'08 16°M.45'56 14°M.44'41 14°M.38'10 10°M.31'23 8°M.59'46 8°M.10'46 11°M.49'02 0°\$\textstyle{2}\$ 11°\$\textstyle{2}\$26'58 19°\$\textstyle{3}\$58'36 0°\$\textstyle{3}\$	0.66190 AU -1°19'19 1°18'24 18°31'57
evening set min. Earth dist. inferior conj minimum elong asc. node morning rise direct morning max el greatest brilliancy desc. node morning set	3545 Nov 10 15:53 3545 Nov 11 19:46 3545 Nov 17 18:18 3545 Nov 22 03:42 3545 Nov 23 08:34 3545 Nov 24 08:19 3545 Nov 24 01:22 3545 Nov 29 00:11 3545 Dec 02 08:46 3545 Dec 09 10:53 3545 Dec 11 10:22 3545 Dec 23 01:15 3545 Dec 31 15:49 3546 Jan 01 01:15 3546 Jan 02 04:47	2° \$\times^445'25 9° \$\times^444'46 7° \$\times^16'14 2° \$\times^226'21 0° \$\times^55'59 29° \$\times^38'06 30° R \$\times 24° \$\times^58'22 23° \$\times^53'25 27° \$\times^51'19 0° \$\times^10'19 29° \$\times^223'27 0° \$\times^10'46'39	0.67129 AU -0°20'23 0°20'10 19°18'02 -0.7m	evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node morning rise direct morning max el morning set desc. node	3546 Sep 29 11:19 3546 Oct 13 04:13 3546 Oct 26 01:48 3546 Nov 01 13:31 3546 Nov 05 15:52 3546 Nov 07 08:12 3546 Nov 07 10:22 3546 Nov 11 05:23 3546 Nov 13 07:52 3546 Nov 16 06:43 3546 Nov 22 22:15 3546 Dec 05 23:36 3546 Dec 13 04:14 3546 Dec 18 12:52 3546 Dec 24 21:14	0°M. 16°M.25'04 23°M.38'53 21°M.00'08 16°M.45'56 14°M.44'41 14°M.38'10 10°M.31'23 8°M.59'46 8°M.10'46 11°M.49'02 0° 11° 11° 126'58 19° 158'36 0° 6° 6° 6334'09	0.66190 AU -1°19'19 1°18'24 18°31'57
evening set min. Earth dist. inferior conj minimum elong asc. node morning rise direct morning max el greatest brilliancy desc. node	3545 Nov 10 15:53 3545 Nov 11 19:46 3545 Nov 17 18:18 3545 Nov 22 03:42 3545 Nov 23 08:34 3545 Nov 23 09:05 3545 Nov 24 08:19 3545 Nov 24 01:22 3545 Nov 29 00:11 3545 Dec 02 08:46 3545 Dec 09 10:53 3545 Dec 11 10:22 3545 Dec 23 01:15 3545 Dec 31 15:49 3546 Jan 01 01:15	2° \$\times^445'25 9° \$\times^444'46 7° \$\times^16'14 2° \$\times^226'21 0° \$\times^55'59 29° \$\times^38'06 30° R \$\times 24° \$\times^58'22 23° \$\times^53'25 27° \$\times^51'19 0° \$\times^10'19 29° \$\times^223'27 0° \$\times^10'46'39	0.67129 AU -0°20'23 0°20'10	evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node morning rise direct morning max el morning set desc. node	3546 Sep 29 11:19 3546 Oct 13 04:13 3546 Oct 26 01:48 3546 Nov 01 13:31 3546 Nov 05 15:52 3546 Nov 07 08:12 3546 Nov 07 10:22 3546 Nov 11 05:23 3546 Nov 13 07:52 3546 Nov 16 06:43 3546 Nov 22 22:15 3546 Dec 05 23:36 3546 Dec 13 04:14 3546 Dec 18 12:52 3546 Dec 24 21:14	0°M. 16°M.25'04 23°M.38'53 21°M.00'08 16°M.45'56 14°M.44'41 14°M.38'10 10°M.31'23 8°M.59'46 8°M.10'46 11°M.49'02 0° ✓ 11° ✓ 26'58 19° ✓ 58'36 0° 6° 6° 63'34'09 6° 60'31'16	0.66190 AU -1°19'19 1°18'24 18°31'57 -1°07'39 1°06'41
evening set min. Earth dist. inferior conj minimum elong asc. node morning rise direct morning max el greatest brilliancy desc. node morning set max. Earth dist.	3545 Nov 10 15:53 3545 Nov 11 19:46 3545 Nov 17 18:18 3545 Nov 22 03:42 3545 Nov 23 08:34 3545 Nov 24 08:19 3545 Nov 24 01:22 3545 Nov 29 00:11 3545 Dec 02 08:46 3545 Dec 09 10:53 3545 Dec 11 10:22 3545 Dec 23 01:15 3545 Dec 31 15:49 3546 Jan 01 01:15 3546 Jan 02 04:47 3546 Jan 15 17:37	2° \$\times^45'25 9° \$\times^424'46 7° \$\times^16'14 2° \$\times^226'21 0° \$\times^53'40 0° \$\times^51'59 29° \$\times^53'25 27° \$\times^51'19 0° \$\times^10'19 29° \$\times^22'27 0° \$\times^10'19 29° \$\times^23'27 0° \$\times^10'19 22° \$\times^55'22	0.67129 AU -0°20'23 0°20'10 19°18'02 -0.7m	evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node morning rise direct morning max el morning set desc. node	3546 Sep 29 11:19 3546 Oct 13 04:13 3546 Oct 26 01:48 3546 Nov 01 13:31 3546 Nov 05 15:52 3546 Nov 07 08:12 3546 Nov 07 10:22 3546 Nov 11 05:23 3546 Nov 13 07:52 3546 Nov 16 06:43 3546 Nov 22 22:15 3546 Dec 05 23:36 3546 Dec 13 04:14 3546 Dec 18 12:52 3546 Dec 24 21:14 3546 Dec 28 17:29 3546 Dec 29 11:41	0°M. 16°M.25'04 23°M.38'53 21°M.00'08 16°M.45'56 14°M.44'41 14°M.38'10 10°M.31'23 8°M.59'46 8°M.10'46 11°M.49'02 0° 27 11° 2726'58 19° 2758'36 0° 37 6° 334'09 6° 302'16 7° 313'39	0.66190 AU -1°19'19 1°18'24 18°31'57
evening set min. Earth dist. inferior conj minimum elong asc. node morning rise direct morning max el greatest brilliancy desc. node morning set max. Earth dist. superior conj	3545 Nov 10 15:53 3545 Nov 11 19:46 3545 Nov 17 18:18 3545 Nov 22 03:42 3545 Nov 23 09:05 3545 Nov 24 08:19 3545 Nov 24 01:22 3545 Nov 29 00:11 3545 Dec 02 08:46 3545 Dec 09 10:53 3545 Dec 11 10:22 3545 Dec 23 01:15 3545 Dec 31 15:49 3546 Jan 01 01:15 3546 Jan 02 04:47 3546 Jan 15 17:37	2° \$\times^45'25 9° \$\times^424'46 7° \$\times^16'14 2° \$\times^226'21 0° \$\times^55'59 29° \$\times^53'25 23° \$\times^53'25 27° \$\times^51'19 0° \$\times^10'19 29° \$\times^23'27 0° \$\times^65'5'22 28° \$\times^600'39	0.67129 AU -0°20'23 0°20'10 19°18'02 -0.7m 1.44756 AU -1°45'17	evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node morning rise direct morning max el morning set desc. node superior conj minimum elong max. Earth dist.	3546 Sep 29 11:19 3546 Oct 13 04:13 3546 Oct 26 01:48 3546 Nov 01 13:31 3546 Nov 05 15:52 3546 Nov 07 08:12 3546 Nov 11 05:23 3546 Nov 13 07:52 3546 Nov 16 06:43 3546 Nov 22 22:15 3546 Dec 05 23:36 3546 Dec 13 04:14 3546 Dec 18 12:52 3546 Dec 24 21:14 3546 Dec 29 01:37 3546 Dec 29 11:41 3547 Jan 12 22:50	0°M. 16°M.25'04 23°M.38'53 21°M.00'08 16°M.45'56 14°M.44'41 14°M.38'10 10°M.31'23 8°M.59'46 8°M.10'46 11°M.49'02 0° 11° \$\frac{7}{2}6'58 19° \$\frac{7}{5}8'36 0°\$\frac{7}{5}8'36 0°\$\frac{7}{5}8'39 6°\$\frac{7}{5}34'09 6°\$\frac{7}{5}31'339 0°\$\infty	0.66190 AU -1°19'19 1°18'24 18°31'57 -1°07'39 1°06'41
evening set min. Earth dist. inferior conj minimum elong asc. node morning rise direct morning max el greatest brilliancy desc. node morning set max. Earth dist.	3545 Nov 10 15:53 3545 Nov 11 19:46 3545 Nov 17 18:18 3545 Nov 22 03:42 3545 Nov 23 08:34 3545 Nov 24 08:19 3545 Nov 24 01:22 3545 Nov 29 00:11 3545 Dec 02 08:46 3545 Dec 09 10:53 3545 Dec 11 10:22 3545 Dec 23 01:15 3545 Dec 31 15:49 3546 Jan 01 01:15 3546 Jan 02 04:47 3546 Jan 15 17:37	2° \$\times 45'25 9° \$\times 44'46 7° \$\times 16'14 2° \$\times 26'21 0° \$\times 53'40 0° \$\times 51'59 29° \$\times 38'06 30° R \$\times 122 23° \$\times 53'25 27° \$\times 51'19 0° \$\times 10'19 29° \$\times 23'27 0° \$\times 10'46'39 22° \$\times 55'22 28° \$\times 00'39 27° \$\times 27'24	0.67129 AU -0°20'23 0°20'10 19°18'02 -0.7m 1.44756 AU -1°45'17	evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node morning rise direct morning max el morning set desc. node superior conj minimum elong max. Earth dist. evening rise	3546 Sep 29 11:19 3546 Oct 13 04:13 3546 Oct 26 01:48 3546 Nov 01 13:31 3546 Nov 05 15:52 3546 Nov 07 08:12 3546 Nov 07 10:22 3546 Nov 11 05:23 3546 Nov 13 07:52 3546 Nov 16 06:43 3546 Nov 22 22:15 3546 Dec 05 23:36 3546 Dec 13 04:14 3546 Dec 18 12:52 3546 Dec 24 21:14 3546 Dec 28 17:29 3546 Dec 29 11:41	0°M. 16°M.25'04 23°M.38'53 21°M.00'08 16°M.45'56 14°M.44'41 14°M.38'10 10°M.31'23 8°M.59'46 8°M.10'46 11°M.49'02 0° 27 11° 2726'58 19° 2758'36 0° 37 6° 334'09 6° 302'16 7° 313'39	0.66190 AU -1°19'19 1°18'24 18°31'57 -1°07'39 1°06'41
evening set min. Earth dist. inferior conj minimum elong asc. node morning rise direct morning max el greatest brilliancy desc. node morning set max. Earth dist. superior conj	3545 Nov 10 15:53 3545 Nov 11 19:46 3545 Nov 17 18:18 3545 Nov 22 03:42 3545 Nov 23 09:05 3545 Nov 24 08:19 3545 Nov 24 01:22 3545 Nov 29 00:11 3545 Dec 02 08:46 3545 Dec 09 10:53 3545 Dec 11 10:22 3545 Dec 23 01:15 3545 Dec 31 15:49 3546 Jan 01 01:15 3546 Jan 02 04:47 3546 Jan 15 17:37	2° \$\times^45'25 9° \$\times^424'46 7° \$\times^16'14 2° \$\times^226'21 0° \$\times^55'59 29° \$\times^53'25 23° \$\times^53'25 27° \$\times^51'19 0° \$\times^10'19 29° \$\times^23'27 0° \$\times^65'5'22 28° \$\times^600'39	0.67129 AU -0°20'23 0°20'10 19°18'02 -0.7m 1.44756 AU -1°45'17	evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node morning rise direct morning max el morning set desc. node superior conj minimum elong max. Earth dist.	3546 Sep 29 11:19 3546 Oct 13 04:13 3546 Oct 26 01:48 3546 Nov 01 13:31 3546 Nov 05 15:52 3546 Nov 07 08:12 3546 Nov 11 05:23 3546 Nov 13 07:52 3546 Nov 16 06:43 3546 Nov 22 22:15 3546 Dec 05 23:36 3546 Dec 13 04:14 3546 Dec 18 12:52 3546 Dec 24 21:14 3546 Dec 29 01:37 3546 Dec 29 11:41 3547 Jan 12 22:50	0°M. 16°M.25'04 23°M.38'53 21°M.00'08 16°M.45'56 14°M.44'41 14°M.38'10 10°M.31'23 8°M.59'46 8°M.10'46 11°M.49'02 0° 11° \$\frac{7}{2}6'58 19° \$\frac{7}{5}8'36 0°\$\frac{7}{5}8'36 0°\$\frac{7}{5}8'39 6°\$\frac{7}{5}34'09 6°\$\frac{7}{5}31'339 0°\$\infty	0.66190 AU -1°19'19 1°18'24 18°31'57 -1°07'39 1°06'41 1.45229 AU

3	J		0 (,,		, 1	C
	3547 Feb 01 12:44	0° ∀		max. Earth dist.	3547 Dec 12 06:47	21° × 738'01	1.44966 AU
evening max el	3547 Feb 05 04:59	4° ₩ 20'06	19°00'32		3547 Dec 17 14:53	0°ਰ	
asc. node	3547 Feb 07 04:41	6° ₩ 09'04		evening rise	3547 Dec 24 17:28	11° る 01'22	
retrograde	3547 Feb 12 01:44	8°) 12′54		<i>5</i>	3548 Jan 06 03:32	0° ≈	
evening set	3547 Feb 15 09:29	7° ₩ 08'56		greatest brilliancy	3548 Jan 07 12:33	2° ≈ 03'05	-0.7m
inferior conj	3547 Feb 20 23:50	1° ¥ 23'12	3°27'19	evening max el	3548 Jan 19 10:49	17° ≈ 51'24	19°51'38
minimum elong	3547 Feb 20 22:11	1°) €28'24		asc. node	3548 Jan 25 01:42	21° ≈ 54'08	
Č	3547 Feb 22 02:10	30°R≈		retrograde	3548 Jan 26 23:17	22° ≈ 13'43	
min. Earth dist.	3547 Feb 22 13:52	29° ≈ 23'25	0.65822 AU	evening set	3548 Jan 30 14:50	20°≈55'58	
morning rise	3547 Feb 26 10:31	25°≈10'27		inferior conj	3548 Feb 05 01:16	14° ≈ 55'50	3°04'29
direct	3547 Mar 04 22:15	22° ≈ 20′06		minimum elong	3548 Feb 04 22:56	15° ≈ 03'39	3°03'59
desc. node	3547 Mar 16 12:03	28° ≈ 39'10		min. Earth dist.	3548 Feb 06 00:54	13° ≈ 37'07	0.66935 AU
	3547 Mar 17 21:06	0°) €		morning rise	3548 Feb 10 06:48	8° ≈ 42'09	
morning max el	3547 Mar 17 20:59	29° ≈ 59'42	26°34'21	direct	3548 Feb 16 06:19	6° ≈ 01'54	
	3547 Apr 09 04:32	0° Y		morning max el	3548 Feb 28 05:53	13° ≈ 11′02	25°19'05
morning set	3547 Apr 22 20:54	23° Y 50'36		desc. node	3548 Mar 02 09:06	16° ≈ 33'27	
	3547 Apr 26 01:39	0°B			3548 Mar 12 20:34	0° ∀	
max. Earth dist.	3547 Apr 27 01:02	1° 8 55'09	1.34656 AU		3548 Mar 31 22:56	0° Y	
				morning set	3548 Apr 04 11:06	6° Y 12'42	
superior conj	3547 May 01 14:36	11° 8 09'39		max. Earth dist.	3548 Apr 08 03:19	12° Y 58'33	1.36407 AU
minimum elong	3547 May 01 17:02	11° 8 22'09	0°45'31				
asc. node	3547 May 06 04:00	20° 8 40'07		superior conj	3548 Apr 14 04:50	24° Y 41'10	-1°14'19
evening rise	3547 May 09 04:54	27° 8 00'44		minimum elong	3548 Apr 14 08:42	25° Y ′00'21	1°13'42
	3547 May 10 15:43	$\Pi^{\circ}0$			3548 Apr 16 20:32	$0^{\circ}S$	
evening max el	3547 May 28 08:31	28° Ⅱ 08'41	20°57'48	evening rise	3548 Apr 22 09:36	11° 8 15'05	
	3547 May 30 10:31	0 \circ		asc. node	3548 Apr 22 01:02	10° 8 31'49	
retrograde	3547 Jun 09 00:06	3° © 50'32			3548 May 02 11:13	Π °0	
evening set	3547 Jun 11 03:55	3° © 39'32		evening max el	3548 May 09 19:15	9° Ⅲ 32'19	19°45'16
desc. node	3547 Jun 12 11:17	3° © 22'45		retrograde	3548 May 19 16:55	14° Ⅱ 20'55	
	3547 Jun 19 23:23	30°R Ⅱ		evening set	3548 May 21 16:15	14° Ⅱ 10′19	
inferior conj	3547 Jun 20 12:09	29° Ⅱ 41'58		desc. node	3548 May 29 08:18	10° Ⅱ 50'39	
minimum elong	3547 Jun 20 05:42	29° ∏ 51′04		inferior conj	3548 May 30 11:52	10° Ⅱ 08'19	
min. Earth dist.	3547 Jun 21 04:36	29° Ⅱ 18'39	0.54859 AU	minimum elong	3548 May 30 10:57	10° Ⅱ 09'44	0°19'58
morning rise	3547 Jun 29 07:22	25° Ⅱ 40'14		min. Earth dist.	3548 Jun 01 17:58	8° Ⅱ 44'46	0.55521 AU
direct	3547 Jul 02 20:18	25° Ⅱ 13'13		morning rise	3548 Jun 08 03:22	5° Ⅱ 38'16	
	3547 Jul 14 04:35	ი _ა ფ		direct	3548 Jun 12 12:03	4° Ⅱ 56'07	
morning max el	3547 Jul 15 19:15	1° 5 25'07	22°46'22	morning max el	3548 Jun 26 09:45	11° Ⅱ 52'00	24°29'24
asc. node	3547 Aug 02 03:14	26°5540'22			3548 Jul 10 05:29	0°©	
_	3547 Aug 03 19:53	0° Ω		asc. node	3548 Jul 19 00:17	16°5016'22	
morning set	3547 Aug 07 05:32	6° Ω 59'08		morning set	3548 Jul 21 17:19	21°\$53'53	
					3548 Jul 25 11:42	0 \circ Ω	
superior conj	3547 Aug 14 07:56	22° Ω 08'45				co O - 0 - 1	
minimum elong	3547 Aug 14 06:17			superior conj	3548 Jul 28 16:34	6° Ω 58'51	1°26'12
max. Earth dist.	3547 Aug 17 07:06		1.33974 AU	minimum elong	3548 Jul 28 14:19	6° Ω 46'39	1°25'55
	3547 Aug 18 01:39	0° m/y		max. Earth dist.	3548 Jul 30 10:19	10° Ω 45'04	1.32930 AU
evening rise	3547 Aug 22 03:07	8° m 11'55		evening rise	3548 Aug 04 23:29	22° Ω 24'44	
1 1	3547 Sep 03 05:02	0° ⊽		1 1	3548 Aug 08 19:26	0°M) 270 m- 27127	
desc. node	3547 Sep 08 10:40	8° £ 14'45	27012152	desc. node	3548 Aug 25 07:39	27° m 37'37	
evening max el	3547 Sep 25 16:39	29° £ 55'10	2/12/32		3548 Aug 27 00:27	0° ⊽	27027122
	3547 Sep 25 18:41	0°M 7°M 12110		evening max el	3548 Sep 07 03:28	13° Ω 02'30	21°26'32
retrograde	3547 Oct 09 02:05	7°M13'19		retrograde	3548 Sep 20 19:55	20° £ 18'43	
evening set	3547 Oct 16 00:32	4°M31'29	0.64906 AU	evening set min. Earth dist.	3548 Sep 28 00:20	17° Ω 43'39	0.63287 AU
min. Earth dist.	3547 Oct 19 20:39	0°M52'38	0.04900 AU		3548 Oct 01 15:50	14° Ω 36'58	
inforior coni	3547 Oct 20 15:54	30° ₹₽ 28° ₽ 28'03	2020/01	inferior conj minimum elong	3548 Oct 04 08:22	11° Ω 56'46 11° Ω 43'28	
inferior conj	3547 Oct 22 01:01			Č	3548 Oct 04 13:43		3 1/38
minimum elong morning rise	3547 Oct 22 04:55 3547 Oct 28 10:19	28° £ 17'16 22° £ 56'30	4 10 31	morning rise direct	3548 Oct 11 04:28 3548 Oct 13 15:17	6° £ 42'05 6° £ 13'28	
asc. node	3547 Oct 28 10:19 3547 Oct 29 02:24	22° £ 36'30 22° £ 40'14		asc. node		6° ± 13′28 6° £ 22'14	
asc. node direct	3547 Oct 29 02:24 3547 Oct 31 01:50	22° £ 40′14 22° £ 19′31			3548 Oct 14 23:28	6° ± 22′14 9° £ 39'06	17°50'41
			18002124	morning max el	3548 Oct 20 06:06	9° 11 39°06	1/ 30/41
morning max el	3547 Nov 06 13:38 3547 Nov 10 03:14	25° £ 47′21 0° ™	18°02'34	morning set	3548 Nov 02 19:26 3548 Nov 05 15:20	บ"แน 4°M⊾56'29	
morning set		22°M35'28		morning set	JJ40 INUV UJ 13.2U	+ II63029	
morning set	3547 Nov 24 09:14	22°11៤35′28 0° √ 1		superior coni	35/8 Nov. 17 15:21	25°M28'18	0°25'04
desc. node	3547 Nov 28 20:29 3547 Dec 05 09:56	0° × ′ 10° × ⁷ 41'27		superior conj minimum elong	3548 Nov 17 15:21 3548 Nov 17 17:52	25°M38'45	
desc. Houc	JJT1 DCC 03 07.30	10 7 41 4/		mmmum ciong	3548 Nov 20 09:21	25 1163643 0° X 1	U 4744
superior conj	3547 Dec 08 09:30	15° ₹ 28'13	-0°20'18	desc. node	3548 Nov 21 06:57	0 x . 1° x 28'04	
minimum elong	3547 Dec 08 09:50 3547 Dec 08 06:59	15° ₹ 18'12		max. Earth dist.	3548 Nov 24 00:08		1.43995 AU
minimum etong	334/ DEC 00 00.39	13 8-1012	0 17 30	max. Earui uist.	JJ40 INUV 24 UU.UÓ	J X JI 14	1.43773 AU

	2540 D 02 02 42	200 700154		1 1	2540 N	220M 15H1	
evening rise	3548 Dec 03 02:42	20° ₹ 09'54		desc. node	3549 Nov 08 03:57	22°M15'11	
	3548 Dec 09 13:30	5°0		evening rise	3549 Nov 12 19:12	29°M42'02	
	3548 Dec 31 03:50	0° ≈			3549 Nov 12 23:44	0° ∡	
evening max el	3549 Jan 01 11:16	1° ≈ 23'48	20°56'26		3549 Dec 03 04:29	0°ಕ	
retrograde	3549 Jan 09 21:14	6° ≈ 22'36		evening max el	3549 Dec 15 06:10	14° る 56'49	22°11'13
asc. node	3549 Jan 10 22:43	6°≈16'25		retrograde	3549 Dec 24 17:46	20°る35'26	
evening set	3549 Jan 13 22:11	4° ≈ 49'50		asc. node	3549 Dec 28 19:45	19° ට 06'19	
	3549 Jan 18 06:45	30°Ŗ₹		evening set	3549 Dec 29 05:48	18° පි 46'44	
inferior conj	3549 Jan 19 06:46	28° る 38'02	2°32'02	inferior conj	3550 Jan 03 14:12	12° る 26'32	1°51'37
minimum elong	3549 Jan 19 04:15	28° පි 46'40	2°31'17	minimum elong	3550 Jan 03 12:01	12°る34'09	1°50'50
min. Earth dist.	3549 Jan 19 17:27	28°る4040	0.67631 AU	min. Earth dist.	3550 Jan 03 13:14	12° る 29'56	0.67942 AU
			0.07031 AU				0.07942 AU
morning rise	3549 Jan 24 10:09	22° る 25'06		morning rise	3550 Jan 08 18:06	6° ප 15'51	
direct	3549 Jan 29 19:13	20° る 03'05		direct	3550 Jan 13 12:12	4° ප 16'03	
morning max el	3549 Feb 09 14:24	26° る 29'11	23°52'21	morning max el	3550 Jan 23 01:14	9° る 53'34	22°23'51
	3549 Feb 12 20:19	0° ≈		desc. node	3550 Feb 04 03:10	24° る 48'45	
desc. node	3549 Feb 17 06:09	5° ≈ 22'00			3550 Feb 07 19:25	0° ≈	
	3549 Mar 06 10:53	0°) €		morning set	3550 Feb 25 16:10	27° ≈ 23'01	
morning set	3549 Mar 17 03:28	17° ¥ 28'29		_	3550 Feb 27 06:30	0° ∀	
max. Earth dist.	3549 Mar 20 23:16	24°) €08'49	1.38484 AU	max. Earth dist.	3550 Mar 02 19:56	5°) 56'38	1.40653 AU
man. Barar arov.	3549 Mar 24 05:13	0°Υ	1.50 10 1110	man. Darm dist.	3000 1141 02 13.00	2 7(2020	10003.110
	3347 Wai 24 03.13	0 1		superior conj	3550 Mar 10 14:52	19°) 31'36	1050156
	2540.34 20 06.20	700000100	1020146	1 3			
superior conj	3549 Mar 28 06:29	7° Y 32'39		minimum elong	3550 Mar 10 18:39	19°) 48′37	1°58'42
minimum elong	3549 Mar 28 11:07	7° Y 54'37	1°39'15		3550 Mar 16 08:08	0° Υ	
evening rise	3549 Apr 06 07:15	25° Y 04'13		evening rise	3550 Mar 20 18:34	8° Ƴ 18'45	
asc. node	3549 Apr 08 22:03	0° 8 09'06		asc. node	3550 Mar 26 19:05	19° Ƴ 25'42	
	3549 Apr 08 20:10	$8^{\circ 0}$			3550 Apr 02 09:22	$_{0\circ}$ 8	
evening max el	3549 Apr 22 17:08	21° 8 36'09	18°52'26	evening max el	3550 Apr 05 23:14	4° 8 12'48	18°19'55
retrograde	3549 May 01 01:30	25° 8 40'50		retrograde	3550 Apr 13 05:10	7° 8 49'02	
evening set	3549 May 03 05:13	25° 8 25'37		evening set	3550 Apr 15 15:16	7° 8 25'53	
inferior conj	3549 May 11 05:25	21° 8 07'26	1°24'17	inferior conj	3550 Apr 22 20:26		2°37'48
	3549 May 11 03:25	21° 8 02'02	1°23'18	,	•	2° 8 39'54	2°36'54
minimum elong	•			minimum elong	3550 Apr 23 00:06	_	2-30-34
min. Earth dist.	3549 May 14 10:02	18° 8 50'43	0.57007 AU		3550 Apr 26 04:34	30° ₹ Υ	
desc. node	3549 May 16 05:19	17° 8 40'07		min. Earth dist.	3550 Apr 26 06:54	29° Y 55′20	0.59013 AU
morning rise	3549 May 19 08:26	16° 8 01'57		morning rise	3550 Apr 30 06:06	27° Ƴ 12′13	
direct	3549 May 24 16:53	14° 8 53'06		desc. node	3550 May 03 02:21	25° Ƴ 59'01	
morning max el	3549 Jun 08 00:45	22° 8 20'05	26°03'21	direct	3550 May 06 11:32	25° Y 28′10	
	3549 Jun 14 19:26	$\Pi^{\circ}0$			3550 May 17 04:55	0°8	
	3549 Jul 02 21:48	0°9		morning max el	3550 May 20 20:49	3° 8 14'43	27°12'56
asc. node	3549 Jul 05 21:20	6°508'14			3550 Jun 09 07:58	0°II	_,
	3549 Jul 06 04:31	6°9346'05		morning set	3550 Jun 20 13:29	21° II 29'43	
morning set	3349 Jul 00 04.31	0 304003		morning set			
				asc. node	3550 Jun 22 18:22	26° Ⅱ 10′03	
superior conj	3549 Jul 13 03:41	21° © 54'35	1°09'48		3550 Jun 24 12:53	0ංම	
minimum elong	3549 Jul 13 01:22	21° © 41'45	1°09'25				
max. Earth dist.	3549 Jul 13 19:40	23° © 22'24	1.32295 AU	superior conj	3550 Jun 27 15:30	6° © 49'34	0°49'22
	3549 Jul 16 20:32	$0 {\circ} \Omega$		minimum elong	3550 Jun 27 13:33	6° ∽ 38'48	0°49'00
evening rise	3549 Jul 20 03:11	6° Ω 57'54		max. Earth dist.	3550 Jun 27 07:25	6° ॐ 05'01	1.32057 AU
	3549 Aug 01 07:31	0° m)		evening rise	3550 Jul 04 11:39	21°542'59	
desc. node	3549 Aug 12 04:38	16° Mp 15'37		•	3550 Jul 08 12:19	$0^{\circ}\Omega$	
evening max el	3549 Aug 20 09:59	25° m 33'17	27°08'06		3550 Jul 26 20:14	0° m)	
e venning man er	3549 Aug 25 23:56	0∘ ʊ	27 0000	desc. node	3550 Jul 30 01:39	3° m/50'24	
ratra ara da	3549 Sep 03 06:34	0 = 2° £ 46'07				~	26916120
retrograde				evening max el	3550 Aug 02 09:46	7° Mp 17'37	20 10 39
evening set	3549 Sep 10 08:58	0° Ω 29'58		retrograde	3550 Aug 16 09:10	14° m) 27'42	
	3549 Sep 11 03:15	30°Ŗ ₯		evening set	3550 Aug 22 21:45	12° m 43'03	
min. Earth dist.	3549 Sep 14 00:16	27° Mp 46'48	0.61380 AU	min. Earth dist.	3550 Aug 26 22:45	10° m ,07'51	0.59310 AU
inferior conj	3549 Sep 17 03:03	25°₩02'56	-4°13'37	inferior conj	3550 Aug 30 05:34	7° m , 37′22	-4°53'51
minimum elong	3549 Sep 17 08:49	24° m 50'13	4°12'16	minimum elong	3550 Aug 30 09:39	7° m , 29′32	4°53'21
morning rise	3549 Sep 24 10:26	20° m 08'41		morning rise	3550 Sep 06 23:43	3° m 05'58	
direct	3549 Sep 26 19:23	19° m 45'27		direct	3550 Sep 09 09:44	2° m 45'43	
asc. node	3549 Oct 01 20:31	21° m/34'53		morning max el	3550 Sep 17 06:07	6° m 33'06	18°23'45
morning max el	3549 Oct 01 20:31 3549 Oct 03 20:40	23° m) 17'07	17°57'18	asc. node	3550 Sep 17 00:07 3550 Sep 18 17:35	8° Mp 05'24	10 25 15
morning max er		-	1/ 3/10	asc. Hour	•	-	
·	3549 Oct 09 04:21	0° ⊽			3550 Oct 02 04:27	0∘ ⊽	
morning set	3549 Oct 19 16:06	18° ≏ 10'38		morning set	3550 Oct 03 06:13	2° ჲ 03'07	
	3549 Oct 26 04:01	0°M₊					
				superior conj	3550 Oct 12 08:27	19° ≏ 16'07	1°25'33
superior conj	3549 Oct 30 00:06	6°M47'26	1°01'00	minimum elong	3550 Oct 12 12:02	19° ≏ 32'33	1°25'13
minimum elong	3549 Oct 30 04:21	7°M05'57	1°00'28		3550 Oct 18 07:58	0° M	
max. Earth dist.	3549 Nov 06 13:04	19°M35'36	1.42438 AU	max. Earth dist.	3550 Oct 19 20:25	2°M37'57	1.40493 AU
		-					

evening rise	3550 Oct 24 07:37	10°ML10'09			3551 Oct 10 16:45	0°M	
desc. node	3550 Oct 26 00:59	12°M59'48		desc. node	3551 Oct 12 22:01	3°M37'29	
	3550 Nov 05 23:15	0° ∡ 7			3551 Oct 30 22:05	0° ₹	
evening max el	3550 Nov 27 20:55	28° ≯ 33'04	23°30'53	evening max el	3551 Nov 10 09:38	12° ∡ 13'32	24°49'10
Č	3550 Nov 29 09:07	5°0		retrograde	3551 Nov 22 01:15	18° ∡ ¹59'58	
retrograde	3550 Dec 08 11:30	4°₹49′29		evening set	3551 Nov 27 15:35	16° ∡ ′39'40	
evening set	3550 Dec 13 12:09	2° る 44'33		min. Earth dist.	3551 Dec 02 05:21	11° × ⁷ 29'21	0.67510 AU
asc. node	3550 Dec 15 16:47	0°₹31'08		asc. node	3551 Dec 02 13:50	11° √ 01'24	
	3550 Dec 16 03:12	30°R. ✓		inferior conj	3551 Dec 03 03:50	10° ∡ 15′00	0°11'59
inferior conj	3550 Dec 18 21:50	26° х 19′55	1°04'35	minimum elong	3551 Dec 03 03:32	10° ∡ 16′00	0°11'51
minimum elong	3550 Dec 18 20:23	26° ₹ 24'52	1°04'00	transit middle	3551 Dec 03 03:32	10° ∤ 16′00	0°11'51
min. Earth dist.	3550 Dec 18 10:01	27° ₹ 00′22	0.67897 AU	transit begin	3551 Dec 03 01:39	10° ∡ ¹22'14	
morning rise	3550 Dec 24 04:35	20° ≯ 13'14		transit end	3551 Dec 03 05:25	10° х 09′46	
direct	3550 Dec 28 08:28	18° ∡ ³36′16		morning rise	3551 Dec 08 15:37	4° ∡ 14'37	
morning max el	3551 Jan 05 17:51	23° ∡ 27'50	21°01'45	direct	3551 Dec 12 06:46	2° ⋌ ¹58'43	
	3551 Jan 11 09:29	0° ろ		morning max el	3551 Dec 19 18:11	7° ∡ 13'02	19°51'34
desc. node	3551 Jan 22 00:12	14° පි 43'36			3552 Jan 05 14:24	0° ろ	
	3551 Feb 01 04:06	0° ≈		desc. node	3552 Jan 08 21:15	4°る58'25	
morning set	3551 Feb 05 01:10	6°≈01'12	1 40/20 411	morning set	3552 Jan 14 21:02	14°る09'26	
max. Earth dist.	3551 Feb 12 22:36	18°≈37'45	1.42632 AU	E 4 E 4	3552 Jan 25 00:20	0°≈ 2000141	1 44162 411
	3551 Feb 19 18:36	0°) €		max. Earth dist.	3552 Jan 26 08:59	2° ≈ 09'41	1.44162 AU
superior conj	3551 Feb 20 00:59	0° ¥ 27'09	2007/04	superior conj	3552 Jan 31 09:15	10°≈12'44	1050150
minimum elong	3551 Feb 20 00:39 3551 Feb 20 01:12	0° X 2709		minimum elong	3552 Jan 31 03:37	9°≈49'55	
evening rise	3551 Mar 03 15:36	20°\ 50'07	2 07 04	minimum clong	3552 Feb 12 06:49	9 ∞ 4933	1 36 33
evening rise	3551 Mar 08 18:52	0° Υ		evening rise	3552 Feb 13 17:56	2° ∺ 29'32	
asc. node	3551 Mar 13 16:06	8° Υ 14'59		asc. node	3552 Feb 28 13:08	26°\(\frac{1}{2}28'10\)	
evening max el	3551 Mar 20 10:14	17° Υ 13'45	18°07'14	use. Houe	3552 Mar 02 11:11	0°Υ	
retrograde	3551 Mar 27 01:12	20° Υ 37'23	10 0, 1.	evening max el	3552 Mar 02 22:59		18°13'42
evening set	3551 Mar 29 17:28	20° Y ′04′08		retrograde	3552 Mar 09 09:18	3° Y 55'40	
inferior conj	3551 Apr 05 07:01	15°Υ05'26	3°20'03	evening set	3552 Mar 12 07:21	3° Y 11'04	
minimum elong	3551 Apr 05 09:22	14° Y 59'42	3°19'42	Ü	3552 Mar 16 09:10	30° ₹ ₩	
min. Earth dist.	3551 Apr 08 10:54	12° Y 02'15	0.61192 AU	inferior conj	3552 Mar 18 09:12	27° ¥ 52'44	3°37'04
morning rise	3551 Apr 11 23:24	9° Ƴ 10'45		minimum elong	3552 Mar 18 09:45	27° ¥ 51'15	3°37'03
direct	3551 Apr 18 17:44	6° Ƴ 52'49		min. Earth dist.	3552 Mar 20 23:38	25°) €02'18	0.63248 AU
desc. node	3551 Apr 19 23:23	6° Ƴ 57'11		morning rise	3552 Mar 24 11:08	21°) 47′24	
morning max el	3551 May 02 23:06	14° Y 49'20	27°47'54	direct	3552 Mar 31 08:54	19° ∺ 06'03	
	3551 May 15 06:02	9° 8		desc. node	3552 Apr 05 20:25	20° ∺ 33′02	
	3551 Jun 01 19:07	$\Pi^{\circ}0$		morning max el	3552 Apr 14 06:17	27°) €03'50	27°45'25
morning set	3551 Jun 04 18:21	5° Ⅱ 58'44			3552 Apr 17 00:44	0° Y	
asc. node	3551 Jun 09 15:24	16° Ⅱ 17′22			3552 May 07 21:38	0°8	
max. Earth dist.	3551 Jun 10 17:52	18° Ⅱ 40'56	1.32224 AU	morning set	3552 May 18 16:52	20° 8 05'50	
		_			3552 May 23 12:12	0 ° Π	
superior conj	3551 Jun 12 02:17	21° Ⅲ 38′02		max. Earth dist.	3552 May 23 23:08	0° Ⅱ 57'52	1.32812 AU
minimum elong	3551 Jun 12 01:08	21° Ⅲ 31'47	0°25'19				
	3551 Jun 15 21:53	0°95		superior conj	3552 May 26 10:14	6° Ⅱ 14'03	
evening rise	3551 Jun 18 22:46	6° © 33'12		minimum elong	3552 May 26 10:17	6° Ⅱ 14'20	0°00'58
	3551 Jul 01 05:27	0° Ω	24957117	behind sun begin	3552 May 26 05:01	5° Ⅱ 45'58	
evening max el desc. node	3551 Jul 15 02:28 3551 Jul 16 22:41	18° Ω 15'56 19° Ω 55'59	24-37-16	behind sun end asc. node	3552 May 26 15:33	6°∏42'43 6°∏26'01	
retrograde	3551 Jul 29 01:26	19 δι 33 39 25° Ω 19'59		evening rise	3552 May 26 12:27 3552 Jun 02 10:39	21° П 22'05	
evening set	3551 Aug 03 10:37	23 δ (1939 24° Ω 13'59		evening rise	3552 Jun 06 15:09	0°95	
min. Earth dist.	3551 Aug 08 14:01		0.57328 AU	evening max el	3552 Jun 25 15:47	28°9645'32	23°22'20
inferior conj	3551 Aug 10 14:01 3551 Aug 11 12:46	19° Ω 30'34		evening max er	3552 Jun 26 23:58	0° Ω	23 22 20
minimum elong	3551 Aug 11 12:13	19° Ω 31'28		desc. node	3552 Jul 02 19:42	3° Ω 59'29	
morning rise	3551 Aug 19 16:20	15° Ω 21'06	5 0, 55	retrograde	3552 Jul 09 04:59	5° Ω 32'07	
direct	3551 Aug 22 06:17	15° Ω 01'55		evening set	3552 Jul 13 02:15	4° Ω 59'05	
morning max el	3551 Aug 31 07:05	19° Ω 16′23	19°11'17	min. Earth dist.	3552 Jul 20 01:31	1° Ω 47'15	0.55762 AU
asc. node	3551 Sep 05 14:38	25° Ω 37'49		inferior conj	3552 Jul 22 00:06	0° Ω 38'33	
	3551 Sep 08 10:27	0° m p		minimum elong	3552 Jul 21 17:45	0° Ω 47'58	
morning set	3551 Sep 17 05:33	16° mp 21'52		, and the second	3552 Jul 23 02:20	30° ℝ ∽	
-	3551 Sep 24 02:25	0∘ ⊽		morning rise	3552 Jul 30 11:40	26°5944'44	
				direct	3552 Aug 02 08:01	26° © 24'56	
superior conj	3551 Sep 25 10:43	2° ₽ 37'19	1°39'33		3552 Aug 11 08:39	$0^{\circ}\Omega$	
minimum elong	3551 Sep 25 12:40	2° ≏ 46'44	1°39'27	morning max el	3552 Aug 12 20:57	1° Ω 18′22	20°20'21
max. Earth dist.	3551 Oct 02 00:35	14° ≏ 58'31	1.38413 AU	asc. node	3552 Aug 22 11:42	13° Q 58'30	
evening rise	3551 Oct 05 19:38	21° ≏ 43'19			3552 Aug 30 23:30	0° m	

morning set	3552 Aug 31 11:03	0° Mp 58'54			3553 Aug 22 14:06	0° m	
superior conj	3552 Sep 08 01:57	16° m 37'04	1°44'34	superior conj	3553 Aug 23 02:11	1° Mp 03'22	1°42'09
minimum elong	3552 Sep 08 02:12	16° Mp 38'21	1°44'33	minimum elong	3553 Aug 23 01:05	0° m ₂ 57'37	1°42'05
max. Earth dist.	3552 Sep 13 07:01	26° Mp 54'47	1.36447 AU	max. Earth dist.	3553 Aug 26 20:27	8° m)49'18	1.34768 AU
	3552 Sep 14 21:55	0∘ <u>⊽</u>		evening rise	3553 Aug 31 07:01	17° m ₂ 35'54	
evening rise	3552 Sep 17 04:54	4° £ 15'48		C	3553 Sep 07 01:03	0∘ <u>⊽</u>	
desc. node	3552 Sep 28 19:03	24° ഫ 03'30		desc. node	3553 Sep 15 16:04	14° £ 11'43	
	3552 Oct 02 15:09	0°M₊			3553 Sep 26 22:02	0° M	
evening max el	3552 Oct 22 22:04	25°M55'58	25°58'46	evening max el	3553 Oct 05 10:36	9°M33'02	26°52'11
	3552 Oct 27 16:53	0° ∡ ¹		retrograde	3553 Oct 18 13:31	16°M48'58	
retrograde	3552 Nov 04 10:03	3° ∡ 102′00		evening set	3553 Oct 25 06:23	14° M 07'50	
evening set	3552 Nov 10 14:21	0° ∡ ¹28'46		min. Earth dist.	3553 Oct 29 05:59	10°M09'01	0.65695 AU
	3552 Nov 11 03:29	30°RM		inferior conj	3553 Oct 31 03:24	7° M 57'11	-1°44'58
min. Earth dist.	3552 Nov 14 20:49	25°M53'48	0.66780 AU	minimum elong	3553 Oct 31 06:18	7° M 48'44	1°43'46
inferior conj	3552 Nov 16 06:22	24°M08'48		asc. node	3553 Nov 05 07:56	2°M51'51	
minimum elong	3552 Nov 16 07:34	24°M05'04	0°44'30	morning rise	3553 Nov 06 07:00	2°M17'43	
asc. node	3552 Nov 18 10:53	21°M30'17		direct	3553 Nov 09 02:31	1°MJ34'11	
morning rise	3552 Nov 22 01:11	18°ML17′21		morning max el	3553 Nov 15 15:28	5°M06'31	18°17'21
direct	3552 Nov 25 05:26	17°M 19'29			3553 Dec 02 15:44	0° ∡ ¹	
morning max el	3552 Dec 02 02:02	21°ML07'32	18°56'20	morning set	3553 Dec 04 17:31	3° ₹ 22'04	
	3552 Dec 09 04:02	0° ∡ 7		desc. node	3553 Dec 12 15:21	16° ∡ 06'43	
morning set	3552 Dec 24 05:19	23° 🗷 02'50			2552 D 10 21 15	270 725147	00.4010.1
desc. node	3552 Dec 25 18:18 3552 Dec 28 15:55	25° メ 27'36 0° る		superior conj	3553 Dec 19 21:15 3553 Dec 19 15:11	27° 🗷 35'47	
may Earth dist	3552 Dec 28 15:55 3553 Jan 08 01:38	0°る 16°る18'23	1.45056 AU	minimum elong		27° メ 11'55 0°る	0-4/13
max. Earth dist.	5555 Jan 06 01.56	10 01823	1.43036 AU	max. Earth dist.	3553 Dec 21 09:56 3553 Dec 21 21:05	0°る43'48	1.45210 AU
superior conj	3553 Jan 09 18:53	19° る 00'45	-1°31'13	evening rise	3554 Jan 05 03:11	0 34348 23° る 01'57	1.43210 AU
minimum elong	3553 Jan 09 18:53	19 3 0043		evening rise	3554 Jan 09 14:08	23 3 01 37 0° ≈	
minimum clong	3553 Jan 16 17:13	0°≈	1 30 10	greatest brilliancy	3554 Jan 16 10:42	0 ~ 10° ≈ 37'42	-0.7m
evening rise	3553 Jan 24 21:57	13°≈12'22		evening max el	3554 Jan 28 19:07	27°≈25'48	19°20'22
evening rise	3553 Feb 04 07:15	0° ∀		evening max er	3554 Jan 31 18:14	0° ₩	19 2022
asc. node	3553 Feb 14 10:10	13°) 54′27		asc. node	3554 Feb 01 07:12	0° ₩ 21'03	
evening max el	3553 Feb 14 10:42	13°) 55'48	18°38'27	retrograde	3554 Feb 04 21:44	1°) 30′15	
retrograde	3553 Feb 21 01:17	17°) 35′19		evening set	3554 Feb 08 08:39	0°) €20'25	
evening set	3553 Feb 24 05:19	16° ¥ 38'30		C	3554 Feb 08 20:04	30° ₹ ≈	
inferior conj	3553 Mar 01 22:59	11°) 02′00	3°35'07	inferior conj	3554 Feb 13 21:01	24° ≈ 27'58	3°18'57
minimum elong	3553 Mar 01 21:59	11°) €05'01	3°35'03	minimum elong	3554 Feb 13 19:01	24° ≈ 34'29	3°18'37
min. Earth dist.	3553 Mar 03 21:46	8° ∺ 41′07	0.64996 AU	min. Earth dist.	3554 Feb 15 04:39	22° ≈ 45'34	0.66345 AU
morning rise	3553 Mar 07 14:11	4°) ₹51′08		morning rise	3554 Feb 19 05:07	18° ≈ 14'33	
direct	3553 Mar 14 07:13	2° ∺ 00′25		direct	3554 Feb 25 11:54	15° ≈ 27'36	
desc. node	3553 Mar 23 17:28	6° ∺ 14'31		morning max el	3554 Mar 10 01:43	22° ≈ 55'54	26°04'29
morning max el	3553 Mar 27 15:56	9°) 49′40	27°08'32	desc. node	3554 Mar 10 14:30	23° ≈ 28'32	
	3553 Apr 12 12:22	0° Υ			3554 Mar 16 07:53	0°) €	
	3553 Apr 30 07:47	0° 8			3554 Apr 05 19:53	0° Υ	
morning set	3553 May 02 06:01	3° 8 41'04	1 22051 477	morning set	3554 Apr 15 06:01	16° Y 33'51	1 25252 1 11
max. Earth dist.	3553 May 06 19:26	12° 8 44'44	1.33851 AU	max. Earth dist.	3554 Apr 19 04:21		1.35352 AU
superior coni	3553 May 10 13:16	20° 8 30'10	_0°20'10		3554 Apr 22 05:22	0° 8	
superior conj minimum elong	3553 May 10 13:16 3553 May 10 14:47	20° 8 38'09		superior conj	3554 Apr 24 08:59	4° 8 19'52	_0°58'11
asc. node	3553 May 10 14:47 3553 May 13 09:29	26° 8 31'05	0 29 01	minimum elong	3554 Apr 24 12:03	4° 8 35'29	
asc. Houc	3553 May 15 09:29 3553 May 15 00:46	0° Ⅱ		asc. node	3554 Apr 30 06:30	16° 8 28'51	0 37 38
evening rise	3553 May 17 21:19	6° Ⅱ 02'15		evening rise	3554 May 02 04:50	20° 8 27'49	
e vennig rise	3553 May 17 21:19 3553 May 30 21:22	0°9		evening rise	3554 May 06 23:27	0°II	
evening max el	3553 Jun 07 08:52	9° © 15'33	21°47'20	evening max el	3554 May 20 12:20	20° Ⅱ 14'49	20°24'35
retrograde	3553 Jun 19 21:10	15°926'10		retrograde	3554 May 31 10:28	25° I I34'23	
desc. node	3553 Jun 19 16:43	15° © 26'05		evening set	3554 Jun 02 10:35	25° Ⅲ 24'21	
evening set	3553 Jun 22 11:39	15° © 10'55		desc. node	3554 Jun 06 13:42	24° Ⅱ 07'24	
inferior conj	3553 Jul 01 20:35	11° 5 08'20	-3°22'49	inferior conj	3554 Jun 11 14:49	21° Ⅱ 26′21	-1°29'12
minimum elong	3553 Jul 01 12:20	11° © 19'53	3°20'24	minimum elong	3554 Jun 11 10:37	21° Ⅲ 32′29	
min. Earth dist.	3553 Jul 01 12:14	11°520'01	0.54923 AU	min. Earth dist.	3554 Jun 13 00:24	20° Ⅲ 37′24	0.55023 AU
morning rise	3553 Jul 10 14:22	7° © 15'48		morning rise	3554 Jun 20 09:35	17° Ⅱ 14'24	
direct	3553 Jul 13 19:41	6°953'03		direct	3554 Jun 24 05:45	16° Ⅱ 42'34	
morning max el	3553 Jul 25 23:06	12° © 34'52	21°49'03	morning max el	3554 Jul 07 16:26	23° Ⅱ 14′20	23°30'23
	3553 Aug 07 17:57	$0^{\circ}\Omega$			3554 Jul 13 17:31	0ංම	
asc. node	3553 Aug 09 08:45	2° Ω 55'16		asc. node	3554 Jul 27 05:47	22°5518'52	
morning set	3553 Aug 15 20:26	15° Ω 47'07		morning set	3554 Jul 31 07:48	0° Ω 40'49	

	3554 Jul 31 00:02	0°N		direct	3555 Jun 05 02:44	26° 8 26'31	
					3555 Jun 14 21:26	$\Pi^{\circ}0$	
superior conj	3554 Aug 07 08:26	15° Ω 47'03	1°33'33	morning max el	3555 Jun 19 06:29	3° Ⅱ 38'18	25°11'33
minimum elong	3554 Aug 07 06:28	15° Ω 36′28	1°33'22		3555 Jul 07 23:07	0ංම	
max. Earth dist.	3554 Aug 09 18:45	20° Ω 58′22	1.33475 AU	asc. node	3555 Jul 14 02:49	12° © 02'07	
	3554 Aug 14 03:22	0° m p		morning set	3555 Jul 15 19:31	15° © 35'03	
evening rise	3554 Aug 14 21:44	1°₩32'16			3555 Jul 22 10:58	$0^{\circ}\Omega$	
	3554 Aug 30 23:06	0∘ ट					
desc. node	3554 Sep 02 13:04	3° ≙ 54'08		superior conj	3555 Jul 22 18:23	0° Ω 40'34	1°19'47
evening max el	3554 Sep 17 22:21	22° £ 54'09	27°22'15	minimum elong	3555 Jul 22 16:02		1°19'27
	3554 Sep 29 09:44	0°M₊		max. Earth dist.	3555 Jul 24 00:42		1.32600 AU
retrograde	3554 Oct 01 11:11	0°M₁2′27		evening rise	3555 Jul 29 21:34	15° Ω 54'53	
	3554 Oct 03 11:13	30° ŖΩ			3555 Aug 06 02:51	0° m)	
evening set	3554 Oct 08 13:04	27° £ 31'42		desc. node	3555 Aug 20 10:03	23° m 00'08	
min. Earth dist.	3554 Oct 12 06:44	24° £ 07'33	0.64259 AU		3555 Aug 25 21:16	0° ™	25022152
inferior conj	3554 Oct 14 16:31	21° £ 34'50		evening max el	3555 Aug 31 07:35	5° Ω 47'36	27°22'52
minimum elong	3554 Oct 14 21:06	21° ♀ 22'42 16° ♀ 10'22	2°44'02	retrograde	3555 Sep 14 02:27	13° ♀ 03'20 10° ♀ 34'39	
morning rise asc. node	3554 Oct 21 06:21 3554 Oct 23 05:00	16° 2 210′22		evening set min. Earth dist.	3555 Sep 21 07:03 3555 Sep 24 21:34	7° £ 3439	0.62498 AU
direct	3554 Oct 23 19:29	15° £ 3919		inferior conj	3555 Sep 27 18:55	4° £ 55'33	
morning max el	3554 Oct 30 07:45	13 = 3727 19° £ 03'15	17°55'20	minimum elong	3555 Sep 28 00:38	4° ⊆ 33'33	
morning max cr	3554 Nov 07 09:53	0°M	17 33 20	minimum clong	3555 Oct 04 08:43	30°RM⊅	3 42 01
morning set	3554 Nov 16 09:55	15°M03'29		morning rise	3555 Oct 04 08:45	29° m) 49'17	
morning sec	3554 Nov 25 07:35	0° ∡ 7		direct	3555 Oct 07 05:21	29° m 23'26	
	300 11101 20 07.30			asc. node	3555 Oct 10 02:02	0° ჲ 01'23	
superior conj	3554 Nov 29 13:07	6° ₹ 754'35	-0°00'13		3555 Oct 10 00:46	0∘ ত	
minimum elong	3554 Nov 29 13:05	6° ≯ 754′26	0°00'13	morning max el	3555 Oct 13 23:53	2° £ 50'55	17°51'09
behind sun begin	3554 Nov 29 02:58	6° ∡ 13′27		morning set	3555 Oct 30 00:48	27° ≏ 49'50	
behind sun end	3554 Nov 29 23:12	7° ∡ ³35′21		-	3555 Oct 31 05:59	0°M	
desc. node	3554 Nov 29 12:22	6° ≯ 51'30					
max. Earth dist.	3554 Dec 04 15:37	15° ₰ 04'59	1.44630 AU	superior conj	3555 Nov 10 06:35	17° M 29'18	0°41'38
	3554 Dec 14 04:43	0°₹		minimum elong	3555 Nov 10 10:14	17°M44'43	0°41'08
evening rise	3554 Dec 15 15:44	2° る 14'52		desc. node	3555 Nov 16 09:23	27°M39'05	
	3555 Jan 03 05:28	0° ≈		max. Earth dist.	3555 Nov 17 06:50	29°M06'13	1.43396 AU
evening max el	3555 Jan 11 22:37	10° ≈ 57'02	20°17'40		3555 Nov 17 20:07	0° ∡ ¹	
asc. node	3555 Jan 19 04:14	15° ≈ 32'27		evening rise	3555 Nov 25 02:08	11° ₹ 29'01	
retrograde	3555 Jan 19 19:48	15° ≈ 34'45			3555 Dec 07 08:08	0°₹	
evening set	3555 Jan 23 15:03	14°≈10'50		evening max el	3555 Dec 25 20:40		21°27'16
inferior conj	3555 Jan 29 00:28	8°≈05'11	2°51'47	retrograde	3556 Jan 03 17:22	29° る 45'32	
minimum elong	3555 Jan 28 21:59	8°≈13'34		asc. node	3556 Jan 06 01:16	29° る 15'56	
min. Earth dist.	3555 Jan 29 18:24	7°≈04'23	0.67277 AU	evening set inferior conj	3556 Jan 07 22:43	28°る06'20	2015147
morning rise	3555 Feb 03 04:43 3555 Feb 05 21:10	1°≈51'21 30°Rる		minimum elong	3556 Jan 13 07:04 3556 Jan 13 04:38	21°る50'35 21°る59'01	
direct	3555 Feb 08 22:07	30 KO 29°る18'09		min. Earth dist.	3556 Jan 13 12:44	21 33901 21° る 30'56	0.67814 AU
direct	3555 Feb 12 04:37	0°≈		morning rise	3556 Jan 18 10:20	15° る 38'10	0.07614 AC
morning max el	3555 Feb 20 10:24	6°≈11'01	24°42'56	direct	3556 Jan 23 13:04	13°る25'05	
desc. node	3555 Feb 25 11:32	11° ≈ 48'03	21 1230	morning max el	3556 Feb 02 19:21	19° る 30'59	23°14'10
	3555 Mar 10 21:38	0°) €		<i>5</i>	3556 Feb 11 16:06	0°≈	-
morning set	3555 Mar 28 11:40	28° ∺ 29'36		desc. node	3556 Feb 12 08:35	0° ≈ 54'23	
-	3555 Mar 29 08:03	$0^{\circ}\mathbf{\Upsilon}$			3556 Mar 03 02:05	0° ∀	
max. Earth dist.	3555 Apr 01 02:53	5° Ƴ 01'46	1.37260 AU	morning set	3556 Mar 08 16:47	9°) 11'47	
				max. Earth dist.	3556 Mar 12 21:38	16°) 21′59	1.39413 AU
superior conj	3555 Apr 07 18:16	17° Y 34'54					
minimum elong	3555 Apr 07 22:36	17° Ƴ 55'57	1°25'03	superior conj	3556 Mar 20 13:10	0° Ƴ 05'21	-1°48'57
	3555 Apr 14 00:33	9° 8		minimum elong	3556 Mar 20 17:43	0° Υ 26'24	1°48'31
evening rise	3555 Apr 16 06:52	4° 8 31'49			3556 Mar 20 12:01	$0^{\circ}\mathbf{\Upsilon}$	
asc. node	3555 Apr 17 03:32	6° 8 14'45		evening rise	3556 Mar 30 00:31	18° Y 06'44	
	3555 May 01 08:33	0°II		asc. node	3556 Apr 03 00:34	25° Y 43'45	
evening max el	3555 May 03 04:02		19°20'19		3556 Apr 05 08:35	0° 8	1002 (112
retrograde	3555 May 12 09:02	6° Ⅱ 23'55		evening max el	3556 Apr 15 05:56	14° 8 14'40	18°36'12
evening set	3555 May 14 09:24	6° Ⅱ 11'59	0027110	retrograde	3556 Apr 23 01:26	18° 8 04'47	
inferior conj	3555 May 22 21:08	2° Ⅱ 04'17		evening set	3556 Apr 25 07:55	17° 8 46'29	1050124
minimum elong	3555 May 22 22:16	2° ∏ 02'24	0°26'55	inferior conj	3556 May 02 23:44	13° 8 20'16	1°59'34
desc. node min. Earth dist.	3555 May 24 10:42 3555 May 25 15:02	1° Ⅱ 02'15 0° Ⅱ 16'19	0.56061 AU	minimum elong min. Earth dist.	3556 May 03 03:23 3556 May 06 08:57	13° 8 13'16 10° 8 45'28	1°58'29 0.57818 AU
ann. Barui uist.	3555 May 26 01:23	0 д1019 30° қ४	0.50001 AU	desc. node	3556 May 10 07:45	8° 8 15'43	0.57010 AU
morning rise	3555 May 31 08:09	27° 8 18'43		morning rise	3556 May 10 07:45 3556 May 10 19:39	8° 8 01'02	
	5111 11mj 51 00.07	010 13			2222 22ag 10 17.07	5 001 02	

direct	3556 May 16 14:04	6° 8 37'22		desc. node	3557 Apr 27 04:47	17° Ƴ 39'10	
morning max el	3556 May 30 23:00	14° 8 14'06	26°36'43	direct	3557 Apr 28 13:52	17° Y 33'53	
morning max er	3556 Jun 12 12:51	0°II	20 30 43	morning max el	3557 May 12 21:40	25° Y 24'43	27°32'25
morning set	3556 Jun 29 05:57	0°923'46		morning max ci	3557 May 17 03:27	0°8	27 32 23
morning sec	3556 Jun 29 01:26	0°95			3557 Jun 05 21:43	0°II	
asc. node	3556 Jun 29 23:50	1°958'27		morning set	3557 Jun 13 13:24	15° ∏ 01'49	
asc. node	5550 Juli 27 25.50	1 3027		asc. node	3557 Jun 16 20:53	22° I 03'07	
superior conj	3556 Jul 06 05:59	15° © 36'30	1°01'36	max. Earth dist.	3557 Jun 19 23:16	28° I I48'32	1.32083 AU
minimum elong	3556 Jul 06 03:46	15° © 24'14	1°01'12	max. Dartii dist.	3337 Juli 17 23.10	20 10 32	1.52005 710
max. Earth dist.	3556 Jul 06 11:25	16°906'26	1.32139 AU	superior conj	3557 Jun 20 17:34	0° © 29'14	0°39'39
max. Earth dist.	3556 Jul 12 21:06	0°Ω	1.52157710	minimum elong	3557 Jun 20 15:55	0°9520'06	0°39'19
evening rise	3556 Jul 13 03:34	0° Ω 33'58		minimum ciong	3557 Jun 20 12:16	0°95	0 37 17
evening rise	3556 Jul 29 05:08	0° m		evening rise	3557 Jun 27 13:26	15° © 22'10	
desc. node	3556 Aug 06 07:04	11° m ₂ 13'52		evening rise	3557 Jul 04 20:26	0°Ω	
evening max el	3556 Aug 12 11:41	18° Mp 00'02	26°50'19	desc. node	3557 Jul 04 20:20 3557 Jul 24 04:04	28° Ω 14'01	
retrograde	3556 Aug 26 09:54	25° Mp 11'25	20 30 19	evening max el	3557 Jul 25 08:27	29° Ω 23'53	25045143
evening set	3556 Sep 02 07:49	23° Mp 07'40		evening max er	3557 Jul 25 08:27 3557 Jul 25 23:54	0° my	23 43 43
min. Earth dist.	3556 Sep 06 01:49	-	0.60502 AU	ratra arada			
	1	20° m 29'48		retrograde	3557 Aug 08 07:52	6° Mp 31'12	
inferior conj	3556 Sep 09 07:11	17° m 49'32 17° m 38'19		evening set	3557 Aug 14 10:35	5° Mp 02'47	0.50442.411
minimum elong	3556 Sep 09 12:34	~	4-32-00	min. Earth dist.	3557 Aug 18 20:37	~	0.58443 AU
morning rise	3556 Sep 16 19:14	13° Mp 04'27		inferior conj	3557 Aug 22 01:45	0° Mp 06'54	
direct	3556 Sep 19 04:12	12° Mp 42'45		minimum elong	3557 Aug 22 04:13	0° Mp 02'27	5*03*45
asc. node	3556 Sep 25 23:05	15° m/48'33	1000 (102		3557 Aug 22 05:34	30°R€	
morning max el	3556 Sep 26 12:37	16° m 20'14	18°06'02	morning rise	3557 Aug 30 00:04	25° Ω 45'00	
	3556 Oct 06 02:39	0° ʊ		direct	3557 Sep 01 11:39	25° Ω 25'15	10041101
morning set	3556 Oct 12 07:52	11° ≏ 22'04		morning max el	3557 Sep 09 18:42	29° £ 22′25	18°41'21
	25560 . 22 02 02	200 2 10120	1010146		3557 Sep 10 09:58	0° m)	
superior conj	3556 Oct 22 02:00	29° £ 19'29	1°12'46	asc. node	3557 Sep 12 20:07	2° Tp 46'29	
minimum elong	3556 Oct 22 06:10	29° £ 38'03	1°12'18	morning set	3557 Sep 26 02:18	25° Tp 26'28	
	3556 Oct 22 11:05	0°M			3557 Sep 28 10:24	0∘ ⊽	
max. Earth dist.	3556 Oct 29 17:27	12°M34'01	1.41651 AU				
desc. node	3556 Nov 02 06:25	18°M25'33		superior conj	3557 Oct 04 18:35	12° Ω 11'43	1°32'42
evening rise	3556 Nov 04 02:11	21°M22'53		minimum elong	3557 Oct 04 21:31	12° Ω 25'30	1°32'28
	3556 Nov 09 13:18	0° ∡		max. Earth dist.	3557 Oct 11 23:27	25° Ω 19'08	1.39613 AU
	3556 Nov 30 13:48	0°る 			3557 Oct 14 16:10	0°M	
evening max el	3556 Dec 07 13:48	8° 궁 04'48	22°44'51	evening rise	3557 Oct 16 00:34	2°M17'48	
retrograde	3556 Dec 17 12:46	13° ろ 59'26		desc. node	3557 Oct 20 03:27	9° ™ 07'21	
evening set	3556 Dec 22 06:01	12° る 03'57			3557 Nov 02 20:08	0° ∡ 7	
asc. node	3556 Dec 22 22:18	11° る 27'49		evening max el	3557 Nov 20 03:27	21° х 42'46	24°04'45
inferior conj	3556 Dec 27 14:50	5° る 41'38	1°32'26	retrograde	3557 Dec 01 04:48	28° √ 12'32	
minimum elong	3556 Dec 27 12:54	5° පි 48'18	1°31'42	evening set	3557 Dec 06 11:20	26° √ 00'42	
min. Earth dist.	3556 Dec 27 09:15	6° ට 00'58	0.67974 AU	asc. node	3557 Dec 09 19:22	22° × 23'51	
	3557 Jan 01 07:02	30°R.✓		min. Earth dist.	3557 Dec 11 05:36	20° ₹ 31'03	0.67779 AU
morning rise	3557 Jan 01 19:40	29° ∡ 32′27		inferior conj	3557 Dec 11 21:59	19° ∡ ³35'41	0°42'53
direct	3557 Jan 06 07:43	27° ∡ 42′13		minimum elong	3557 Dec 11 20:58	19° ∡ 39'05	0°42'28
	3557 Jan 11 23:09	0° ろ		morning rise	3557 Dec 17 06:38	13° ∡ ³31'39	
morning max el	3557 Jan 15 08:10	2° පි 58'52	21°47′39	direct	3557 Dec 21 04:56	12° x 03'59	20020116
desc. node	3557 Jan 29 05:39	20°₹34'24		morning max el	3557 Dec 29 04:02	16° ₹ 37'56	20~30'16
	3557 Feb 04 17:00	0° ≈			3558 Jan 08 19:19	0° ろ	
morning set	3557 Feb 16 17:04	18° ≈ 31'19		desc. node	3558 Jan 16 02:42	10°る38'25	
max. Earth dist.	3557 Feb 22 20:44		1.41542 AU	morning set	3558 Jan 26 17:47	26° ප් 48'42	
	3557 Feb 23 17:32	0° ℋ			3558 Jan 28 18:57	0° ≈	
				max. Earth dist.	3558 Feb 05 03:24	11° ≈ 39'48	1.43356 AU
superior conj	3557 Mar 02 12:48	11° ∺ 39′26					
minimum elong	3557 Mar 02 15:27	11°) €51'03	2°03'57	superior conj	3558 Feb 11 12:08	22°≈05'14	
	3557 Mar 12 16:21	0° Υ		minimum elong	3558 Feb 11 09:59	21°≈56′18	2°05'49
evening rise	3557 Mar 13 06:18	1° Υ 04'18			3558 Feb 16 04:46	0°) {	
asc. node	3557 Mar 20 21:36	14° Y 49'52	10015:00	evening rise	3558 Feb 23 19:58	13°) (14′52	
evening max el	3557 Mar 29 14:37	27° Y 03′20	18°12'08	_	3558 Mar 05 13:56	0°Υ 2° 00 2 455	
	3557 Apr 02 19:59	0° 8		asc. node	3558 Mar 07 18:39	3° Υ 24'55	1000====
retrograde	3557 Apr 05 12:36	0° 8 32'06		evening max el	3558 Mar 13 02:41	10° Y 11′29	18°07'35
evening set	3557 Apr 08 01:33	0° 8 04'41		retrograde	3558 Mar 19 14:32	13° Y 34'24	
	3557 Apr 08 06:39	30° ₹ Υ		evening set	3558 Mar 22 09:14	12° Y 56′26	
inferior conj	3557 Apr 14 23:33	25° Y 17′28	2°59'13	inferior conj	3558 Mar 28 17:19		3°29'55
minimum elong	3557 Apr 15 02:48	25° Y 10′09	2°58'34	minimum elong	3558 Mar 28 18:54	7° Y ′44'47	3°29'46
min. Earth dist.	3557 Apr 18 08:20	22° Y 17'43	0.59942 AU	min. Earth dist.	3558 Mar 31 15:50	4° Y 48'47	0.62096 AU
morning rise	3557 Apr 22 01:41	19° Ƴ 32'55		morning rise	3558 Apr 04 03:06	1° Ƴ 48'39	

	3558 Apr 07 09:32	30° ₹		evening max el	3559 Feb 24 15:15	23°) 32'24	18021154
direct		29°) 19'31		•	3559 Mar 03 02:32	27°\(\frac{1}{27}\)2'37	10 21 34
	3558 Apr 10 23:49			retrograde			
desc. node	3558 Apr 14 01:51	29°) (46′59		evening set	3559 Mar 06 02:56	26°) 13'05	2020112
	3558 Apr 14 18:11	0° Υ		inferior conj	3559 Mar 12 00:56	20°) 46'47	
morning max el	3558 Apr 25 02:30	7° Y 17′22	27°51'25	minimum elong	3559 Mar 12 00:46	20°) 47′16	3°38'12
	3558 May 12 09:49	0°8		min. Earth dist.	3559 Mar 14 08:49	18° ∺ 07'06	0.64039 AU
morning set	3558 May 28 15:52	29° 8 22'08		morning rise	3559 Mar 17 21:48	14° ¥ 38'15	
	3558 May 28 23:17	Π $^{\circ}0$		direct	3559 Mar 24 18:17	11° 米 51′05	
max. Earth dist.	3558 Jun 03 08:09	11° Ⅱ 18'14	1.32426 AU	desc. node	3559 Mar 31 22:54	14° ∺ 20′29	
asc. node	3558 Jun 03 17:56	12° Ⅱ 11′09		morning max el	3559 Apr 07 11:18	19°) √ 47′24	27°33'27
					3559 Apr 16 04:46	0° Y	
superior conj	3558 Jun 05 03:20	15° Ⅱ 12'28	0°14'35		3559 May 05 09:53	9° 8	
minimum elong	3558 Jun 05 02:40	15° Ⅱ 08'46	0°14'26	morning set	3559 May 12 10:49	13° 8 16'52	
behind sun begin	3558 Jun 05 00:29	14° Ⅱ 56'56		max. Earth dist.	3559 May 17 09:58	23° 8 22'48	1.33198 AU
behind sun end	3558 Jun 05 04:50	15° Ⅱ 20'36			,		
	3558 Jun 11 22:49	0°ಅ		superior conj	3559 May 20 09:27	29° 8 40'27	-0°12'52
evening rise	3558 Jun 12 01:05	0°912'04		minimum elong	3559 May 20 10:06	29° 8 43'55	
e vennig rise	3558 Jun 28 12:35	0°Ω		behind sun begin	3559 May 20 06:49	29° 8 26'25	0 12 11
evening max el	3558 Jul 06 22:43	10°Ω05'22	24017144	behind sun end	3559 May 20 00:49 3559 May 20 13:23	0° П 01'25	
•			24 1/44	bening sun end		0 П 01 23 0° П	
desc. node	3558 Jul 11 01:05	13° Ω 31'31		1	3559 May 20 13:07		
retrograde	3558 Jul 20 18:52	17° Ω 04'22		asc. node	3559 May 21 14:59	2° Ⅱ 18'29	
evening set	3558 Jul 25 13:25	16° Ω 13'34		evening rise	3559 May 27 12:40	14° Ⅱ 57'28	
min. Earth dist.	3558 Jul 31 09:28		0.56590 AU		3559 Jun 04 02:00	0 \circ \odot	
inferior conj	3558 Aug 03 00:12	11° Ω 39'52	-5°02'07	evening max el	3559 Jun 18 12:29	20° © 30'15	22°40'58
minimum elong	3558 Aug 02 21:05	11° Ω 44'48	5°01'53	desc. node	3559 Jun 27 22:06	26° © 31'19	
morning rise	3558 Aug 11 07:24	7° Ω 38'45		retrograde	3559 Jul 01 17:34	27° © 04'38	
direct	3558 Aug 13 23:54	7° Ω 19'31		evening set	3559 Jul 04 23:52	26° © 41'15	
morning max el	3558 Aug 23 15:11	11° Ω 48'38	19°38'13	min. Earth dist.	3559 Jul 12 20:30	23° © 14'15	0.55292 AU
asc. node	3558 Aug 30 17:11	20° Ω 40'31		inferior conj	3559 Jul 14 04:05	22°529'07	-4°13'22
	3558 Sep 05 03:06	0° m		minimum elong	3559 Jul 13 20:09	22° © 40'28	4°11'36
morning set	3558 Sep 10 04:32	9° m 53'31		morning rise	3559 Jul 22 18:37	18°938'04	
morning ser	5000 Sep 10 0 1.52	y		direct	3559 Jul 25 18:01	18° © 17'37	
superior conj	3558 Sep 18 02:54	25° m 50'50	1°42'42	morning max el	3559 Aug 06 00:04	23°931'17	20°56'06
minimum elong	3558 Sep 18 04:06	25° m 56'46	1°42'38	morning max ci	3559 Aug 11 15:42	0°Ω	20 30 00
minimum ciong	3558 Sep 18 04:00 3558 Sep 20 05:50	0° ∵	1 42 36	4	3559 Aug 17 13:42 3559 Aug 17 14:13	9° Ω 17'26	
Double diet	1		1 27541 ATT	asc. node	•		
max. Earth dist.	3558 Sep 24 03:47	7° £ 26'05	1.37541 AU	morning set	3559 Aug 25 11:53	24° Ω 35'23	
evening rise	3558 Sep 27 22:01	14° ≙ 16'43			3559 Aug 28 02:22	0° m	
desc. node	3558 Oct 07 00:27	29° ≏ 40'26					
	3558 Oct 07 05:20	0°M₊		superior conj	3559 Sep 01 22:21	10° m 02'52	
	3558 Oct 28 15:28	0° ∡ ¹		minimum elong	3559 Sep 01 21:59	10° Mp 00'57	1°44'21
evening max el	3558 Nov 02 15:42	5° ∡ 23'51	25°20'16	max. Earth dist.	3559 Sep 06 12:17	19° m) 16'41	1.35678 AU
retrograde	3558 Nov 14 16:38	12° ∡ °20′30		evening rise	3559 Sep 10 14:57	27° m 10'36	
evening set	3558 Nov 20 13:02	9° ∡ ¹53'56			3559 Sep 12 03:28	0∘ ত	
min. Earth dist.	3558 Nov 24 23:30	4° ∡ ¹58'43	0.67236 AU	desc. node	3559 Sep 23 21:27	19° ≏ 59'16	
inferior conj	3558 Nov 26 02:43	3° ∡ ³30'34	-0°11'44				
minimum elong	2550 N. 26 02 01				3559 Sep 30 13:46	0° M .	
transit middle	3558 Nov 26 03:01	3° ∡ ¹29'36	0°11'36	evening max el		0° ጤ 19° ጤ 04'16	26°24'01
	3558 Nov 26 03:01 3558 Nov 26 03:01	3° х 29′36 3° х 29′36		•	3559 Sep 30 13:46		26°24'01
transit begin			0°11'36	retrograde	3559 Sep 30 13:46 3559 Oct 16 04:01	19° M 04'16	26°24'01
transit begin transit end	3558 Nov 26 03:01 3558 Nov 26 01:04	3° х 29'36 3° х 35'55	0°11'36	retrograde evening set	3559 Sep 30 13:46 3559 Oct 16 04:01 3559 Oct 28 23:25 3559 Nov 04 09:12	19°M04'16 26°M16'34 23°M39'08	
transit end	3558 Nov 26 03:01 3558 Nov 26 01:04 3558 Nov 26 04:58	3° ₹29'36 3° ₹35'55 3° ₹23'18	0°11'36	retrograde evening set min. Earth dist.	3559 Sep 30 13:46 3559 Oct 16 04:01 3559 Oct 28 23:25 3559 Nov 04 09:12 3559 Nov 08 12:37	19°M04'16 26°M16'34 23°M39'08 19°M19'25	0.66351 AU
•	3558 Nov 26 03:01 3558 Nov 26 01:04 3558 Nov 26 04:58 3558 Nov 26 16:24	3° ₹29'36 3° ₹35'55 3° ₹23'18 2° ₹46'27	0°11'36	retrograde evening set min. Earth dist. inferior conj	3559 Sep 30 13:46 3559 Oct 16 04:01 3559 Oct 28 23:25 3559 Nov 04 09:12 3559 Nov 08 12:37 3559 Nov 10 03:09	19°M04'16 26°M16'34 23°M39'08 19°M19'25 17°M22'16	0.66351 AU -1°10'13
transit end asc. node	3558 Nov 26 03:01 3558 Nov 26 01:04 3558 Nov 26 04:58 3558 Nov 26 16:24 3558 Nov 28 23:38	3° ₹29'36 3° ₹35'55 3° ₹23'18 2° ₹46'27 30° RM	0°11'36	retrograde evening set min. Earth dist. inferior conj minimum elong	3559 Sep 30 13:46 3559 Oct 16 04:01 3559 Oct 28 23:25 3559 Nov 04 09:12 3559 Nov 08 12:37 3559 Nov 10 03:09 3559 Nov 10 05:03	19°M04'16 26°M16'34 23°M39'08 19°M19'25 17°M22'16 17°M16'28	0.66351 AU
transit end asc. node morning rise	3558 Nov 26 03:01 3558 Nov 26 01:04 3558 Nov 26 04:58 3558 Nov 26 16:24 3558 Nov 28 23:38 3558 Dec 01 17:17	3° ₹29'36 3° ₹35'55 3° ₹23'18 2° ₹46'27 30° RM 27° M.33'53	0°11'36	retrograde evening set min. Earth dist. inferior conj minimum elong asc. node	3559 Sep 30 13:46 3559 Oct 16 04:01 3559 Oct 28 23:25 3559 Nov 04 09:12 3559 Nov 08 12:37 3559 Nov 10 03:09 3559 Nov 10 05:03 3559 Nov 13 13:26	19°M04'16 26°M16'34 23°M39'08 19°M19'25 17°M22'16 17°M16'28 13°M31'23	0.66351 AU -1°10'13
transit end asc. node	3558 Nov 26 03:01 3558 Nov 26 01:04 3558 Nov 26 04:58 3558 Nov 26 16:24 3558 Nov 28 23:38 3558 Dec 01 17:17 3558 Dec 05 03:28	3° \$\times^229'36 3° \$\times^325'55 3° \$\times^223'18 2° \$\times^446'27 30° RM 27° \$M\$33'53 26° \$M\$26'16	0°11'36	retrograde evening set min. Earth dist. inferior conj minimum elong asc. node morning rise	3559 Sep 30 13:46 3559 Oct 16 04:01 3559 Oct 28 23:25 3559 Nov 04 09:12 3559 Nov 08 12:37 3559 Nov 10 03:09 3559 Nov 10 05:03 3559 Nov 13 13:26 3559 Nov 16 01:29	19°M04'16 26°M16'34 23°M39'08 19°M19'25 17°M22'16 17°M16'28 13°M31'23 11°M35'28	0.66351 AU -1°10'13
transit end asc. node morning rise direct	3558 Nov 26 03:01 3558 Nov 26 01:04 3558 Nov 26 04:58 3558 Nov 26 16:24 3558 Nov 28 23:38 3558 Dec 01 17:17 3558 Dec 05 03:28 3558 Dec 11 20:19	3° ₹29'36 3° ₹35'55 3° ₹23'18 2° ₹46'27 30° RM 27° M33'53 26° M26'16 0° ₹	0°11'36 0°11'36	retrograde evening set min. Earth dist. inferior conj minimum elong asc. node morning rise direct	3559 Sep 30 13:46 3559 Oct 16 04:01 3559 Oct 28 23:25 3559 Nov 04 09:12 3559 Nov 08 12:37 3559 Nov 10 03:09 3559 Nov 10 05:03 3559 Nov 13 13:26 3559 Nov 16 01:29 3559 Nov 19 01:39	19°M04'16 26°M16'34 23°M39'08 19°M19'25 17°M22'16 17°M16'28 13°M31'23 11°M35'28 10°M44'17	0.66351 AU -1°10'13 1°09'24
transit end asc. node morning rise direct morning max el	3558 Nov 26 03:01 3558 Nov 26 01:04 3558 Nov 26 04:58 3558 Nov 26 16:24 3558 Nov 28 23:38 3558 Dec 01 17:17 3558 Dec 05 03:28 3558 Dec 11 20:19 3558 Dec 12 07:50	3° ₹29'36 3° ₹35'55 3° ₹23'18 2° ₹46'27 30° RM 27° M.33'53 26° M.26'16 0° ₹ 0° ₹28'12	0°11'36 0°11'36	retrograde evening set min. Earth dist. inferior conj minimum elong asc. node morning rise	3559 Sep 30 13:46 3559 Oct 16 04:01 3559 Oct 28 23:25 3559 Nov 04 09:12 3559 Nov 08 12:37 3559 Nov 10 03:09 3559 Nov 10 05:03 3559 Nov 13 13:26 3559 Nov 16 01:29 3559 Nov 19 01:39 3559 Nov 25 18:19	19°M04'16 26°M16'34 23°M39'08 19°M19'25 17°M22'16 17°M16'28 13°M31'23 11°M35'28 10°M44'17 14°M24'55	0.66351 AU -1°10'13
transit end asc. node morning rise direct	3558 Nov 26 03:01 3558 Nov 26 01:04 3558 Nov 26 04:58 3558 Nov 26 16:24 3558 Nov 28 23:38 3558 Dec 01 17:17 3558 Dec 05 03:28 3558 Dec 11 20:19 3558 Dec 12 07:50 3558 Dec 25 14:36	3° ₹29'36 3° ₹35'55 3° ₹23'18 2° ₹46'27 30° RM 27° M.33'53 26° M.26'16 0° ₹ 0° ₹28'12	0°11'36 0°11'36	retrograde evening set min. Earth dist. inferior conj minimum elong asc. node morning rise direct morning max el	3559 Sep 30 13:46 3559 Oct 16 04:01 3559 Oct 28 23:25 3559 Nov 04 09:12 3559 Nov 08 12:37 3559 Nov 10 03:09 3559 Nov 10 05:03 3559 Nov 13 13:26 3559 Nov 16 01:29 3559 Nov 19 01:39 3559 Nov 25 18:19 3559 Dec 07 05:15	19°M04'16 26°M16'34 23°M39'08 19°M19'25 17°M22'16 17°M16'28 13°M31'23 11°M35'28 10°M44'17 14°M24'55 0° 🖈	0.66351 AU -1°10'13 1°09'24
transit end asc. node morning rise direct morning max el greatest brilliancy	3558 Nov 26 03:01 3558 Nov 26 01:04 3558 Nov 26 04:58 3558 Nov 26 16:24 3558 Nov 28 23:38 3558 Dec 01 17:17 3558 Dec 05 03:28 3558 Dec 11 20:19 3558 Dec 12 07:50 3558 Dec 25 14:36 3559 Jan 02 08:10	3°水29'36 3°水35'55 3°水23'18 2°水46'27 30°RM 27°M33'53 26°M26'16 0°水 0°水28'12 18°水12'23 0°る	0°11'36 0°11'36	retrograde evening set min. Earth dist. inferior conj minimum elong asc. node morning rise direct morning max el morning set	3559 Sep 30 13:46 3559 Oct 16 04:01 3559 Oct 28 23:25 3559 Nov 04 09:12 3559 Nov 08 12:37 3559 Nov 10 03:09 3559 Nov 10 05:03 3559 Nov 13 13:26 3559 Nov 16 01:29 3559 Nov 19 01:39 3559 Nov 25 18:19 3559 Dec 07 05:15 3559 Dec 16 11:14	19°M04'16 26°M16'34 23°M39'08 19°M19'25 17°M22'16 17°M16'28 13°M31'23 11°M35'28 10°M44'17 14°M24'55 0° 🗷 14° 🗷 35'32	0.66351 AU -1°10'13 1°09'24
transit end asc. node morning rise direct morning max el greatest brilliancy desc. node	3558 Nov 26 03:01 3558 Nov 26 01:04 3558 Nov 26 04:58 3558 Nov 26 16:24 3558 Nov 28 23:38 3558 Dec 01 17:17 3558 Dec 05 03:28 3558 Dec 11 20:19 3558 Dec 12 07:50 3558 Dec 25 14:36 3559 Jan 02 08:10 3559 Jan 02 23:45	3°水29'36 3°水35'55 3°水23'18 2°水46'27 30°RM 27°M33'53 26°M26'16 0°水 0°水28'12 18°水12'23 0°云 1°云00'01	0°11'36 0°11'36	retrograde evening set min. Earth dist. inferior conj minimum elong asc. node morning rise direct morning max el	3559 Sep 30 13:46 3559 Oct 16 04:01 3559 Oct 28 23:25 3559 Nov 04 09:12 3559 Nov 08 12:37 3559 Nov 10 03:09 3559 Nov 10 05:03 3559 Nov 13 13:26 3559 Nov 16 01:29 3559 Nov 19 01:39 3559 Nov 25 18:19 3559 Dec 07 05:15 3559 Dec 16 11:14 3559 Dec 20 20:45	19°M.04'16 26°M.16'34 23°M.39'08 19°M.19'25 17°M.22'16 17°M.16'28 13°M.31'23 11°M.35'28 10°M.44'17 14°M.24'55 0° 🗷 14° 🗷 35'32 21° 🗷 33'26	0.66351 AU -1°10'13 1°09'24
transit end asc. node morning rise direct morning max el greatest brilliancy	3558 Nov 26 03:01 3558 Nov 26 01:04 3558 Nov 26 04:58 3558 Nov 26 16:24 3558 Nov 28 23:38 3558 Dec 01 17:17 3558 Dec 05 03:28 3558 Dec 11 20:19 3558 Dec 12 07:50 3558 Dec 25 14:36 3559 Jan 02 08:10 3559 Jan 02 23:45 3559 Jan 05 16:05	3° 水29'36 3° 水35'55 3° 水23'18 2° 水46'27 30°RM 27°M33'53 26°M26'16 0° メ 0° 水28'12 18° メ12'23 0° 云 1° 云00'01 5° 云08'32	0°11'36 0°11'36 19°26'15 -0.7m	retrograde evening set min. Earth dist. inferior conj minimum elong asc. node morning rise direct morning max el morning set	3559 Sep 30 13:46 3559 Oct 16 04:01 3559 Oct 28 23:25 3559 Nov 04 09:12 3559 Nov 08 12:37 3559 Nov 10 03:09 3559 Nov 10 05:03 3559 Nov 13 13:26 3559 Nov 16 01:29 3559 Nov 19 01:39 3559 Nov 25 18:19 3559 Dec 07 05:15 3559 Dec 16 11:14	19°M04'16 26°M16'34 23°M39'08 19°M19'25 17°M22'16 17°M16'28 13°M31'23 11°M35'28 10°M44'17 14°M24'55 0° 🗷 14° 🗷 35'32	0.66351 AU -1°10'13 1°09'24
transit end asc. node morning rise direct morning max el greatest brilliancy desc. node	3558 Nov 26 03:01 3558 Nov 26 01:04 3558 Nov 26 04:58 3558 Nov 26 16:24 3558 Nov 28 23:38 3558 Dec 01 17:17 3558 Dec 05 03:28 3558 Dec 11 20:19 3558 Dec 12 07:50 3558 Dec 25 14:36 3559 Jan 02 08:10 3559 Jan 02 23:45	3°水29'36 3°水35'55 3°水23'18 2°水46'27 30°RM 27°M33'53 26°M26'16 0°水 0°水28'12 18°水12'23 0°云 1°云00'01	0°11'36 0°11'36	retrograde evening set min. Earth dist. inferior conj minimum elong asc. node morning rise direct morning max el morning set	3559 Sep 30 13:46 3559 Oct 16 04:01 3559 Oct 28 23:25 3559 Nov 04 09:12 3559 Nov 08 12:37 3559 Nov 10 03:09 3559 Nov 10 05:03 3559 Nov 13 13:26 3559 Nov 16 01:29 3559 Nov 19 01:39 3559 Nov 25 18:19 3559 Dec 07 05:15 3559 Dec 16 11:14 3559 Dec 20 20:45	19°M.04'16 26°M.16'34 23°M.39'08 19°M.19'25 17°M.22'16 17°M.16'28 13°M.31'23 11°M.35'28 10°M.44'17 14°M.24'55 0° 🗷 14° 🗷 35'32 21° 🗷 33'26	0.66351 AU -1°10'13 1°09'24
transit end asc. node morning rise direct morning max el greatest brilliancy desc. node morning set	3558 Nov 26 03:01 3558 Nov 26 01:04 3558 Nov 26 04:58 3558 Nov 26 16:24 3558 Nov 28 23:38 3558 Dec 01 17:17 3558 Dec 05 03:28 3558 Dec 11 20:19 3558 Dec 12 07:50 3558 Dec 25 14:36 3559 Jan 02 08:10 3559 Jan 02 23:45 3559 Jan 05 16:05	3° 水29'36 3° 水35'55 3° 水23'18 2° 水46'27 30°RM 27°M33'53 26°M26'16 0° メ 0° 水28'12 18° メ12'23 0° 云 1° 云00'01 5° 云08'32	0°11'36 0°11'36 19°26'15 -0.7m	retrograde evening set min. Earth dist. inferior conj minimum elong asc. node morning rise direct morning max el morning set	3559 Sep 30 13:46 3559 Oct 16 04:01 3559 Oct 28 23:25 3559 Nov 04 09:12 3559 Nov 08 12:37 3559 Nov 10 03:09 3559 Nov 10 05:03 3559 Nov 13 13:26 3559 Nov 16 01:29 3559 Nov 19 01:39 3559 Nov 25 18:19 3559 Dec 07 05:15 3559 Dec 16 11:14 3559 Dec 20 20:45	19°M.04'16 26°M.16'34 23°M.39'08 19°M.19'25 17°M.22'16 17°M.16'28 13°M.31'23 11°M.35'28 10°M.44'17 14°M.24'55 0° 🗷 14° 🗷 35'32 21° 🗷 33'26	0.66351 AU -1°10'13 1°09'24 18°37'44
transit end asc. node morning rise direct morning max el greatest brilliancy desc. node morning set	3558 Nov 26 03:01 3558 Nov 26 01:04 3558 Nov 26 04:58 3558 Nov 26 16:24 3558 Nov 28 23:38 3558 Dec 01 17:17 3558 Dec 05 03:28 3558 Dec 11 20:19 3558 Dec 12 07:50 3558 Dec 25 14:36 3559 Jan 02 08:10 3559 Jan 02 23:45 3559 Jan 05 16:05 3559 Jan 18 16:45	3°水29'36 3°水35'55 3°水23'18 2°水46'27 30°RM 27°M33'53 26°M26'16 0°水 0°水28'12 18°水12'23 0°उ 1°♂00'01 5°♂08'32 25°♂29'37	0°11'36 0°11'36 19°26'15 -0.7m	retrograde evening set min. Earth dist. inferior conj minimum elong asc. node morning rise direct morning max el morning set desc. node	3559 Sep 30 13:46 3559 Oct 16 04:01 3559 Oct 28 23:25 3559 Nov 04 09:12 3559 Nov 08 12:37 3559 Nov 10 03:09 3559 Nov 10 05:03 3559 Nov 13 13:26 3559 Nov 16 01:29 3559 Nov 19 01:39 3559 Nov 25 18:19 3559 Dec 07 05:15 3559 Dec 16 11:14 3559 Dec 20 20:45 3559 Dec 26 05:17	19°M04'16 26°M16'34 23°M39'08 19°M19'25 17°M22'16 17°M16'28 13°M31'23 11°M35'28 10°M44'17 14°M24'55 0°\$\textstyle{A}\$ 14°\$\textstyle{A}\$35'32 21°\$\textstyle{A}\$33'26 0°\$\textstyle{B}\$	0.66351 AU -1°10'13 1°09'24 18°37'44
transit end asc. node morning rise direct morning max el greatest brilliancy desc. node morning set	3558 Nov 26 03:01 3558 Nov 26 01:04 3558 Nov 26 04:58 3558 Nov 26 16:24 3558 Nov 28 23:38 3558 Dec 01 17:17 3558 Dec 05 03:28 3558 Dec 11 20:19 3558 Dec 12 07:50 3558 Dec 25 14:36 3559 Jan 02 08:10 3559 Jan 02 23:45 3559 Jan 05 16:05 3559 Jan 18 16:45	3°水29'36 3°水35'55 3°水23'18 2°水46'27 30°RM 27°M33'53 26°M26'16 0°水 0°水28'12 18°水12'23 0°उ 1°♂00'01 5°♂08'32 25°♂29'37	0°11'36 0°11'36 19°26'15 -0.7m	retrograde evening set min. Earth dist. inferior conj minimum elong asc. node morning rise direct morning max el morning set desc. node	3559 Sep 30 13:46 3559 Oct 16 04:01 3559 Oct 28 23:25 3559 Nov 04 09:12 3559 Nov 08 12:37 3559 Nov 10 03:09 3559 Nov 10 05:03 3559 Nov 13 13:26 3559 Nov 16 01:29 3559 Nov 19 01:39 3559 Nov 25 18:19 3559 Dec 07 05:15 3559 Dec 16 11:14 3559 Dec 20 20:45 3559 Dec 26 05:17	19°M04'16 26°M16'34 23°M39'08 19°M19'25 17°M22'16 17°M16'28 13°M31'23 11°M35'28 10°M44'17 14°M24'55 0°\$\textstyle{A}\$ 14°\$\textstyle{A}\$35'32 21°\$\textstyle{A}\$33'26 0°\$\textstyle{B}\$	0.66351 AU -1°10'13 1°09'24 18°37'44
transit end asc. node morning rise direct morning max el greatest brilliancy desc. node morning set max. Earth dist.	3558 Nov 26 03:01 3558 Nov 26 01:04 3558 Nov 26 04:58 3558 Nov 26 16:24 3558 Nov 28 23:38 3558 Dec 01 17:17 3558 Dec 05 03:28 3558 Dec 11 20:19 3558 Dec 12 07:50 3558 Dec 25 14:36 3559 Jan 02 08:10 3559 Jan 02 23:45 3559 Jan 05 16:05 3559 Jan 18 16:45 3559 Jan 21 12:54	3° ₹29'36 3° ₹35'55 3° ₹23'18 2° ₹46'27 30° RM 27° M.33'53 26° M.26'16 0° ₹ 0° ₹28'12 18° ₹12'23 0° ₹ 1° ₹300'01 5° ₹308'32 25° ₹29'37 0° ≈	0°11'36 0°11'36 19°26'15 -0.7m 1.44625 AU	retrograde evening set min. Earth dist. inferior conj minimum elong asc. node morning rise direct morning max el morning set desc. node	3559 Sep 30 13:46 3559 Oct 16 04:01 3559 Oct 28 23:25 3559 Nov 04 09:12 3559 Nov 08 12:37 3559 Nov 10 03:09 3559 Nov 10 05:03 3559 Nov 13 13:26 3559 Nov 16 01:29 3559 Nov 19 01:39 3559 Nov 25 18:19 3559 Dec 07 05:15 3559 Dec 16 11:14 3559 Dec 20 20:45 3559 Dec 26 05:17	19°M04'16 26°M16'34 23°M39'08 19°M19'25 17°M22'16 17°M16'28 13°M31'23 11°M35'28 10°M44'17 14°M24'55 0°\$\textstyle{A}\$ 14°\$\textstyle{A}\$35'32 21°\$\textstyle{A}\$33'26 0°\$\textstyle{B}\$ 9°\$\textstyle{B}\$58'45 9°\$\textstyle{B}\$24'54	0.66351 AU -1°10'13 1°09'24 18°37'44 -1°14'16 1°13'16
transit end asc. node morning rise direct morning max el greatest brilliancy desc. node morning set max. Earth dist. superior conj minimum elong	3558 Nov 26 03:01 3558 Nov 26 01:04 3558 Nov 26 04:58 3558 Nov 26 16:24 3558 Nov 28 23:38 3558 Dec 01 17:17 3558 Dec 05 03:28 3558 Dec 11 20:19 3558 Dec 12 07:50 3558 Dec 25 14:36 3559 Jan 02 08:10 3559 Jan 02 23:45 3559 Jan 05 16:05 3559 Jan 18 16:45 3559 Jan 21 12:54	3°水29'36 3°水35'55 3°水23'18 2°水46'27 30°RM 27°M33'53 26°M26'16 0°水 0°水28'12 18°水12'23 0°उ 1°उ00'01 5°उ08'32 25°उ29'37 0°≈	0°11'36 0°11'36 19°26'15 -0.7m 1.44625 AU	retrograde evening set min. Earth dist. inferior conj minimum elong asc. node morning rise direct morning max el morning set desc. node superior conj minimum elong max. Earth dist.	3559 Sep 30 13:46 3559 Oct 16 04:01 3559 Oct 28 23:25 3559 Nov 04 09:12 3559 Nov 08 12:37 3559 Nov 10 03:09 3559 Nov 10 05:03 3559 Nov 13 13:26 3559 Nov 16 01:29 3559 Nov 19 01:39 3559 Nov 25 18:19 3559 Dec 07 05:15 3559 Dec 16 11:14 3559 Dec 20 20:45 3559 Dec 26 05:17 3560 Jan 01 13:49 3560 Jan 01 05:11 3560 Jan 01 10:20	19°M04'16 26°M16'34 23°M39'08 19°M19'25 17°M22'16 17°M16'28 13°M31'23 11°M35'28 10°M44'17 14°M24'55 0°\$\textstyle{A} 14°\$\textstyle{A}35'32 21°\$\textstyle{A}33'26 0°\textstyle{B} 9°\textstyle{B}58'45 9°\textstyle{B}24'54 9°\textstyle{B}45'04	0.66351 AU -1°10'13 1°09'24 18°37'44 -1°14'16 1°13'16
transit end asc. node morning rise direct morning max el greatest brilliancy desc. node morning set max. Earth dist.	3558 Nov 26 03:01 3558 Nov 26 01:04 3558 Nov 26 04:58 3558 Nov 26 16:24 3558 Nov 28 23:38 3558 Dec 01 17:17 3558 Dec 05 03:28 3558 Dec 11 20:19 3558 Dec 12 07:50 3558 Dec 25 14:36 3559 Jan 02 08:10 3559 Jan 02 23:45 3559 Jan 05 16:05 3559 Jan 18 16:45 3559 Jan 21 12:54 3559 Jan 22 09:47 3559 Jan 22 01:59 3559 Feb 05 13:16	3° *729'36 3° *735'55 3° *723'18 2° *746'27 30° RM 27° M.33'53 26° M.26'16 0° *7 0° *728'12 18° *712'23 0° *5 1° *500'01 5° *508'32 25° *529'37 0° ※ 1° ※23'18 0° ※52'10 24° ※31'13	0°11'36 0°11'36 19°26'15 -0.7m 1.44625 AU	retrograde evening set min. Earth dist. inferior conj minimum elong asc. node morning rise direct morning max el morning set desc. node superior conj minimum elong max. Earth dist. evening rise	3559 Sep 30 13:46 3559 Oct 16 04:01 3559 Oct 28 23:25 3559 Nov 04 09:12 3559 Nov 08 12:37 3559 Nov 10 03:09 3559 Nov 10 05:03 3559 Nov 13 13:26 3559 Nov 16 01:29 3559 Nov 19 01:39 3559 Nov 25 18:19 3559 Dec 07 05:15 3559 Dec 16 11:14 3559 Dec 20 20:45 3559 Dec 26 05:17 3560 Jan 01 13:49 3560 Jan 01 05:11 3560 Jan 01 10:20 3560 Jan 14 06:31 3560 Jan 17 07:16	19°M04'16 26°M16'34 23°M39'08 19°M19'25 17°M22'16 17°M16'28 13°M31'23 11°M35'28 10°M44'17 14°M24'55 0°ズ 14°ズ35'32 21°ズ33'26 0°℧ 9°♂58'45 9°♂524'54 9°♂545'04 0°≈ 4°≈49'36	0.66351 AU -1°10'13 1°09'24 18°37'44 -1°14'16 1°13'16 1.45209 AU
transit end asc. node morning rise direct morning max el greatest brilliancy desc. node morning set max. Earth dist. superior conj minimum elong	3558 Nov 26 03:01 3558 Nov 26 01:04 3558 Nov 26 04:58 3558 Nov 26 16:24 3558 Nov 28 23:38 3558 Dec 01 17:17 3558 Dec 05 03:28 3558 Dec 11 20:19 3558 Dec 12 07:50 3558 Dec 25 14:36 3559 Jan 02 08:10 3559 Jan 02 23:45 3559 Jan 05 16:05 3559 Jan 18 16:45 3559 Jan 21 12:54	3° *729'36 3° *735'55 3° *723'18 2° *746'27 30° RM 27° M.33'53 26° M.26'16 0° *7 0° *728'12 18° *712'23 0° *5 1° *500'01 5° *508'32 25° *529'37 0° *≈ 1° *≈23'18 0° *≈52'10	0°11'36 0°11'36 19°26'15 -0.7m 1.44625 AU	retrograde evening set min. Earth dist. inferior conj minimum elong asc. node morning rise direct morning max el morning set desc. node superior conj minimum elong max. Earth dist.	3559 Sep 30 13:46 3559 Oct 16 04:01 3559 Oct 28 23:25 3559 Nov 04 09:12 3559 Nov 08 12:37 3559 Nov 10 03:09 3559 Nov 10 05:03 3559 Nov 13 13:26 3559 Nov 16 01:29 3559 Nov 19 01:39 3559 Nov 25 18:19 3559 Dec 07 05:15 3559 Dec 16 11:14 3559 Dec 20 20:45 3559 Dec 26 05:17 3560 Jan 01 13:49 3560 Jan 01 10:20 3560 Jan 11 00:20 3560 Jan 11 00:31	19°M04'16 26°M16'34 23°M39'08 19°M19'25 17°M22'16 17°M16'28 13°M31'23 11°M35'28 10°M44'17 14°M24'55 0° 14° 33'326 0° 9° 558'45 9° 524'54 9° 545'04 0° ≈	0.66351 AU -1°10'13 1°09'24 18°37'44 -1°14'16 1°13'16

evening max el	3560 Feb 08 01:49	7°) €00'18	18°54'17		3560 Dec 17 22:52	0°ರ	
asc. node	3560 Feb 09 12:43	8°) 22′25	10 0 . 17	evening rise	3560 Dec 27 03:59	14° る 19'23	
retrograde	3560 Feb 14 20:44	10°) (49'13		evening rise	3561 Jan 06 08:34	0°≈	
evening set	3560 Feb 18 03:29	9°) (47'08		greatest brilliancy	3561 Jan 09 09:22	4°≈34'36	-0.7m
inferior conj	3560 Feb 23 18:37	4° ₩ 03'50	3°29'46	evening max el	3561 Jan 21 08:22	20°≈31'06	19°43'07
minimum elong	3560 Feb 23 17:07	4°) €08'31	3°29'36	asc. node	3561 Jan 26 09:45	24°≈18'42	17 45 07
min. Earth dist.	3560 Feb 25 10:56	1° ¥ 58'17	0.65623 AU	retrograde	3561 Jan 28 18:01	24°≈48'25	
mm. Latin dist.	3560 Feb 27 03:08	30°R≈	0.03023710	evening set	3561 Feb 01 08:21	23°≈32'39	
morning rise	3560 Feb 29 06:21	27°≈51'33		inferior conj	3561 Feb 06 19:13	17°≈34'29	3°08'38
direct	3560 Mar 06 19:41	25°≈00'36		minimum elong	3561 Feb 06 16:57	17°≈42'01	3°08'10
direct	3560 Mar 16 23:45	0° \		min. Earth dist.	3561 Feb 07 20:52	17 ≈42 01 16°≈09'39	0.66794 AU
desc. node	3560 Mar 17 19:57	0°) 44'55		morning rise	3561 Feb 12 01:19	10 ≈09 39 11°≈20'55	0.00794 AC
morning max el	3560 Mar 19 21:08	2°\(\frac{44}{43}\)'08	26°43'58	direct	3561 Feb 12 01:19 3561 Feb 18 02:49	8°≈38'41	
morning max er		2 Λ 43 08	20 43 36		3561 Mar 02 06:12	15°≈52'57	25°31'21
	3560 Apr 09 10:44	26° Υ 36'15		morning max el			23 31 21
morning set	3560 Apr 24 18:58	0° 8		desc. node	3561 Mar 04 16:59	18° ≈ 29'07 0°) €	
T (1 11)	3560 Apr 26 13:22		1 24422 ATT		3561 Mar 13 22:04	0° Υ	
max. Earth dist.	3560 Apr 29 01:18	4° 8 54'59	1.34432 AU		3561 Apr 02 08:12		
	25(0)1 02 00 16	1001446155	0041126	morning set	3561 Apr 07 11:52	9° Υ 06'34	1.06100 177
superior conj	3560 May 03 09:46	13° 8 46'57		max. Earth dist.	3561 Apr 11 05:20	16° Y 01′25	1.36123 AU
minimum elong	3560 May 03 11:57	13° 8 58'17	0°41'10			0 0	
asc. node	3560 May 07 12:00	22° 8 21'16		superior conj	3561 Apr 17 01:31	27° Y 23′24	
evening rise	3560 May 10 22:17	29° 8 32'35		minimum elong	3561 Apr 17 05:11	27° Y 41'45	1°09'32
	3560 May 11 03:34	$\Pi^{\circ}0$			3561 Apr 18 08:44	0° 8	
	3560 May 29 05:40	0 \circ \odot		asc. node	3561 Apr 24 09:02	12° 8 14'40	
evening max el	3560 May 30 09:42	1° © 11'33	21°10'10	evening rise	3561 Apr 25 03:47	13° 8 50'03	
retrograde	3560 Jun 11 06:57	7° © 00'59			3561 May 03 15:14	Π $^{\circ}0$	
evening set	3560 Jun 13 12:58	6° ∽ 49'13		evening max el	3561 May 12 18:33	12° Ⅱ 28'30	19°54'48
desc. node	3560 Jun 13 19:08	6°5946'26		retrograde	3561 May 22 22:24	17° Ⅲ 24'55	
inferior conj	3560 Jun 22 21:56	2° © 51'01	-2°37'20	evening set	3561 May 24 21:39	17° Ⅱ 14'36	
minimum elong	3560 Jun 22 14:51	3° 5 00'59	2°34'57	desc. node	3561 May 31 16:10	14° Ⅲ 30'46	
min. Earth dist.	3560 Jun 23 08:04	2° 5 36'47	0.54846 AU	inferior conj	3561 Jun 02 19:47	13° Ⅱ 13'59	-0°38'07
	3560 Jun 28 09:47	30°R Ⅱ		minimum elong	3561 Jun 02 18:02	13° Ⅱ 16'39	0°37'28
morning rise	3560 Jul 01 16:58	28° Ⅲ 52'17		min. Earth dist.	3561 Jun 04 20:57	11° Ⅱ 59'22	0.55367 AU
direct	3560 Jul 05 03:46	28° Ⅲ 26'34		morning rise	3561 Jun 11 12:26	8° Ⅱ 49'05	
	3560 Jul 11 13:49	0ංම		direct	3561 Jun 15 17:44	8° Ⅱ 10′02	
morning max el	3560 Jul 17 21:55	4°930'45	22°31'09	morning max el	3561 Jun 29 12:56	14° Ⅱ 59'45	24°14'14
asc. node	3560 Aug 03 11:16	28° © 26'52		•	3561 Jul 11 09:09	0°ಅ	
	3560 Aug 04 06:36	$0^{\circ}\Omega$		asc. node	3561 Jul 21 08:18	17° © 59'33	
morning set	3560 Aug 08 22:20	9° Ω 26'42		morning set	3561 Jul 24 10:04	24° © 21'13	
5 - 5				. 8	3561 Jul 27 01:23	$0^{\circ}\Omega$	
superior conj	3560 Aug 16 01:29	24° Ω 37'44	1°39'10			• ••	
minimum elong	3560 Aug 15 23:57	24°Ω29'38	1°39'05	superior conj	3561 Jul 31 09:34	9° Ω 26'08	1°28'17
minimum ciong	3560 Aug 18 14:47	0°m/	1 37 03	minimum elong	3561 Jul 31 07:23	9° Ω 14'16	1°28'02
max. Earth dist.	3560 Aug 19 05:27	1° m) 16'07	1.34170 AU	max. Earth dist.	3561 Aug 02 07:33	13° Ω 34'24	1.33062 AU
evening rise	3560 Aug 23 22:59	10° mp 48'02	1.5 11, 0110	evening rise	3561 Aug 07 18:00	24°Ω56'40	1.55002110
evening rise	3560 Sep 03 12:46	0° ರ		evening rise	3561 Aug 10 06:57	0°m/	
desc. node	3560 Sep 09 18:26	∘ – 9° ჲ 57'27		desc. node	3561 Aug 27 15:27	29° m) 25'41	
desc. node	3560 Sep 25 02:38	ე <u>—</u> 3/2/ 0° M .		desc. Hode	3561 Aug 28 01:02	೨೨ ಗ್ಗು23 - 11	
evening max el	3560 Sep 27 16:35	2°M36'26	27°08'20	evening max el	3561 Sep 10 03:45	0 == 15° £ 47'39	27°26'23
retrograde	3560 Oct 11 00:27	9°M53'55	27 00 20	retrograde	3561 Sep 23 19:12	23° ⊆ 04'12	27 20 23
evening set	3560 Oct 17 00:27	7°ML12'07		evening set	3561 Sep 30 23:16	23 ≅ 04 12 20° £ 27'16	
min. Earth dist.	3560 Oct 21 18:36	3°M28'04	0.65124 AU	min. Earth dist.	3561 Oct 04 15:14	20 ≥ 27 10 17° ♀ 16'21	0.63551 AU
		1°ML06'40			3561 Oct 04 15:14 3561 Oct 07 06:04	17 = 1021 14° ⊆ 37'48	
inferior conj	3560 Oct 23 21:07			inferior conj			
minimum elong	3560 Oct 24 00:46	0°M56'28	2°09'23	minimum elong	3561 Oct 07 11:14	14° £ 24'43	3°09'11
	3560 Oct 24 21:10	30°R Ω		morning rise	3561 Oct 14 00:31	9° £ 20'31	
morning rise	3560 Oct 30 04:54	25° Ω 32'51		direct	3561 Oct 16 11:53	8° £ 50′50	
asc. node	3560 Oct 30 10:29	25° £ 26'31		asc. node	3561 Oct 17 07:31	8° £ 54'09	17051110
direct	3560 Nov 01 21:23	24° £ 54'14	10005140	morning max el	3561 Oct 23 01:45	12° £ 16'06	17°51'19
morning max el	3560 Nov 08 09:12	28° £ 22'55	18°05'48		3561 Nov 04 03:47	0°M	
•	3560 Nov 09 21:07	0°M		morning set	3561 Nov 08 14:42	7°M42'32	
morning set	3560 Nov 26 11:54	25°M31'04			0.561.37	a.o.c.w. a	0016:
	3560 Nov 29 05:06	0° ∡ 7		superior conj	3561 Nov 20 21:31	28°M34'01	0°18'42
desc. node	3560 Dec 06 17:45	12° ≯ 14'48		minimum elong	3561 Nov 20 23:28	28°M42'06	0°18'26
					3561 Nov 21 18:26	0° ∡ 7	
superior conj	3560 Dec 10 19:29	18° ∡ 45′15		desc. node	3561 Nov 23 14:46	3° ∡ 00'54	
minimum elong	3560 Dec 10 16:02	18° ∡ 31'30	0°27'05	max. Earth dist.	3561 Nov 26 23:38	8° ≯ 26'40	1.44178 AU
max. Earth dist.	3560 Dec 14 05:37	24° ₹ 09'56	1.45053 AU	evening rise	3561 Dec 06 13:35	23° ₹ 27'50	

	3561 Dec 10 20:08	0°ಕ			3562 Nov 14 08:06	0° ∡ ¹	
	3561 Dec 31 19:52	0° ≈		evening rise	3562 Nov 16 04:04	2° × 753'59	
evening max el	3562 Jan 04 09:36	4°≈03'00	20°46'03		3562 Dec 04 07:14	0°ਰ	
retrograde	3562 Jan 12 16:05	8° ≈ 56'13		evening max el	3562 Dec 18 05:15	17° る 35'29	21°59'37
asc. node	3562 Jan 13 06:47	8°≈54'10		retrograde	3562 Dec 27 13:00	23° る 08'28	
evening set	3562 Jan 16 15:32	7° ≈ 25'42		asc. node	3562 Dec 31 03:50	21° る 57'57	
inferior conj	3562 Jan 22 00:15	1°≈15'18	2°37'30	evening set	3562 Dec 31 23:14	21° る 22'14	
minimum elong	3562 Jan 21 21:44	1° ≈ 23'55	2°36'47	inferior conj	3563 Jan 06 07:34	15° る 02'58	1°58'12
min. Earth dist.	3562 Jan 22 12:44	0° ≈ 32'30	0.67550 AU	minimum elong	3563 Jan 06 05:18	15° る 10'52	1°57'25
	3562 Jan 22 22:15	30°Ŗ₹		min. Earth dist.	3563 Jan 06 08:16	15° る 00'31	0.67918 AU
morning rise	3562 Jan 27 03:47	25° る 02'07		morning rise	3563 Jan 11 11:13	8° る 51'42	
direct	3562 Feb 01 15:00	22° る 37'09		direct	3563 Jan 16 07:29	6° る 48'28	
morning max el	3562 Feb 12 14:45	29° る 10'25	24°05'38	morning max el	3563 Jan 26 01:02	12° る 33'31	22°36'43
	3562 Feb 13 10:02	0° ≈		desc. node	3563 Feb 06 11:02	26° る 31'49	
desc. node	3562 Feb 19 14:00	7° ≈ 10'18			3563 Feb 08 22:58	0° ≈	
	3562 Mar 07 17:29	0° ∀			3563 Feb 28 15:13	0° ∀	
morning set	3562 Mar 20 07:52	20°) 32′56		morning set	3563 Mar 01 00:56	0°) 39′48	
max. Earth dist.	3562 Mar 24 01:51	27° ₩ 08'26	1.38163 AU	max. Earth dist.	3563 Mar 05 21:38	8°) 47'22	1.40333 AU
	3562 Mar 25 15:54	0 ° Υ					
				superior conj	3563 Mar 13 16:31	22° ∺ 28′02	-1°56'38
superior conj	3562 Mar 31 05:15	10° Ƴ 20'57	-1°36'15	minimum elong	3563 Mar 13 20:35	22°) 46′28	1°56'21
minimum elong	3562 Mar 31 09:51	10° Ƴ 42'54	1°35'40		3563 Mar 17 18:56	0° Y	
evening rise	3562 Apr 09 02:41	27° Ƴ 43′07		evening rise	3563 Mar 23 15:45	11° Y ′02'53	
	3562 Apr 10 06:36	$8^{\circ 0}$		asc. node	3563 Mar 29 03:08	21° Y 14'17	
asc. node	3562 Apr 11 06:05	1° 8 54'18			3563 Apr 03 08:08	0°B	
evening max el	3562 Apr 25 14:53	24° 8 26'05	18°58'59	evening max el	3563 Apr 08 20:00	6° ႘ 58'18	18°23'33
retrograde	3562 May 04 04:20	28° 8 36'34		retrograde	3563 Apr 16 05:09	10° 8 37'42	
evening set	3562 May 06 07:02	28° 8 22'21		evening set	3563 Apr 18 14:16	10° 8 15'55	
inferior conj	3562 May 14 10:15	24° 8 06'55	1°10'18	inferior conj	3563 Apr 25 22:07	5° 8 40'55	2°28'45
minimum elong	3562 May 14 12:52	24° 8 02'18	1°09'24	minimum elong	3563 Apr 26 01:51	5° 8 33'14	2°27'47
min. Earth dist.	3562 May 17 12:34	21° 8 57'13	0.56744 AU	min. Earth dist.	3563 Apr 29 08:45	2° 8 52'17	0.58691 AU
desc. node	3562 May 18 13:12	21° 8 16'50		morning rise	3563 May 03 10:27	0° 8 09'16	
morning rise	3562 May 22 15:31	19° 8 06'24			3563 May 03 17:36	30° ŖƳ	
direct	3562 May 27 20:20	18° 8 02'15		desc. node	3563 May 05 10:14	29° Y 15'40	
morning max el	3562 Jun 11 03:33	25° 8 25'41	25°50'37	direct	3563 May 09 13:14	28° Y 30'28	
	3562 Jun 15 10:01	Π $^{\circ}0$			3563 May 15 13:20	0°B	
	3562 Jul 04 09:06	0ಂ ತಾ		morning max el	3563 May 23 22:42	6° 8 15'07	27°04'38
asc. node	3562 Jul 08 05:20	7° © 48'57			3563 Jun 10 14:29	Π $\circ 0$	
morning set	3562 Jul 08 21:29	9° © 13'51		morning set	3563 Jun 23 06:55	23° Ⅱ 59'19	
				asc. node	3563 Jun 25 02:24	27° Ⅱ 49'43	
superior conj	3562 Jul 15 20:28	24° © 21'14	1°12'34		3563 Jun 26 02:37	0 \circ \odot	
minimum elong	3562 Jul 15 18:07	24° © 08'19	1°12'12				
max. Earth dist.	3562 Jul 16 16:07	26° © 09'08	1.32361 AU	superior conj	3563 Jun 30 08:20	9° 5 17'02	0°52'44
	3562 Jul 18 10:23	$0^{\circ}\Omega$		minimum elong	3563 Jun 30 06:17	9° © 05'47	0°52'20
evening rise	3562 Jul 22 20:47	9° Ω 26'58		max. Earth dist.	3563 Jun 30 03:43	8° © 51'37	1.32062 AU
	3562 Aug 02 14:55	0° m		evening rise	3563 Jul 07 04:43	24° © 11'01	
desc. node	3562 Aug 14 12:29	18° m 11'30			3563 Jul 10 00:05	0 $^{\circ}$ Ω	
evening max el	3562 Aug 23 10:58	28° Mp 24'08	27°12'57		3563 Jul 27 15:23	0° m)	
	3562 Aug 25 05:29	0∘ ত		desc. node	3563 Aug 01 09:30	5° m 57'35	
retrograde	3562 Sep 06 07:08	5° £ 37'56		evening max el	3563 Aug 05 11:56	10° m) 16'11	26°26'20
evening set	3562 Sep 13 10:30	3° ≏ 17'58		retrograde	3563 Aug 19 11:15	17° m) 26'51	
min. Earth dist.	3562 Sep 17 01:17	0° ჲ 32'12	0.61674 AU	evening set	3563 Aug 26 02:37	15° Mp 36'57	
	3562 Sep 17 16:03	30°₽, Mp		min. Earth dist.	3563 Aug 30 01:18	13° m 01'37	0.59617 AU
inferior conj	3562 Sep 20 02:51	27° Mp 47'46	-4°06'10	inferior conj	3563 Sep 02 08:04	10° Mp 27′54	
minimum elong	3562 Sep 20 08:40	27° m 34'42	4°04'42	minimum elong	3563 Sep 02 12:35	10° m 19'02	4°48'32
morning rise	3562 Sep 27 08:36	22° m 50'27		morning rise	3563 Sep 10 00:41	5° m 52'56	
direct	3562 Sep 29 17:34	22° Mp 26'39		direct	3563 Sep 12 10:16	5° Mg 32′26	
asc. node	3562 Oct 04 04:35	23° m 53'47		morning max el	3563 Sep 20 03:21	9° m 17'03	18°18'29
morning max el	3562 Oct 06 16:53	25° m 56'55	17°55'08	asc. node	3563 Sep 21 01:37	10° m 13'33	
	3562 Oct 10 03:42	0∘ ত			3563 Oct 03 14:55	0∘ ⊽	
morning set	3562 Oct 22 13:08	20° ≏ 49'53		morning set	3563 Oct 06 01:36	4° £ 37'39	
	3562 Oct 27 14:32	0°M₊					
				superior conj	3563 Oct 15 07:40		1°22'32
superior conj	3562 Nov 02 02:27	9° ™ 42'01	0°56'16	minimum elong	3563 Oct 15 11:26	22° ≏ 18'35	1°22'08
minimum elong	3562 Nov 02 06:38	10°M00'05	0°55'44		3563 Oct 19 18:25	0° M	
max. Earth dist.	3562 Nov 09 13:09	22°M15'26	1.42698 AU	max. Earth dist.	3563 Oct 22 21:09	5° ™ 23'58	1.40801 AU
desc. node	3562 Nov 10 11:47	23°M48'06		evening rise	3563 Oct 27 13:10	13°M13'02	

daga mada	3563 Oct 28 08:50	14°M33'24		daga mada	2564 Oct. 14. 05:52	5°M12'13	
desc. node				desc. node	3564 Oct 14 05:52	0° √	
	3563 Nov 07 05:30	0° ∡ 7			3564 Oct 30 22:56		2.402.515.2
	3563 Nov 29 16:52	0° ろ		evening max el	3564 Nov 12 09:33	14° ₹ 51′23	24°37'52
evening max el	3563 Nov 30 20:35	1° る 11'21	23°18'55	retrograde	3564 Nov 23 21:32	21° ≯ 33'35	
retrograde	3563 Dec 11 07:14	7° る 22'21		evening set	3564 Nov 29 09:50	19° ⊀ 15'30	
evening set	3563 Dec 16 05:52	5° る 19'58		asc. node	3564 Dec 03 21:54	14° ₹ 09'43	
asc. node	3563 Dec 18 00:52	3° ⋜ 34'14		min. Earth dist.	3564 Dec 04 00:48	14° ₰ 00'07	0.67593 AU
	3563 Dec 20 20:34	30°₽ ⋌ ¹		inferior conj	3564 Dec 04 21:39	12° ₹ ′50'42	0°20'17
min. Earth dist.	3563 Dec 21 05:07	29° х 30′46	0.67930 AU	minimum elong	3564 Dec 04 21:09	12° ∡ 52'21	0°20'04
inferior conj	3563 Dec 21 15:18	28° ₹ 55'45	1°12'06	morning rise	3564 Dec 10 08:34	6° √ 49'15	
minimum elong	3563 Dec 21 13:43	29°×01'13	1°11'28	direct	3564 Dec 14 01:32	5°×730'19	
•	3563 Dec 26 21:29	22°×748'16	1 11 20		3564 Dec 21 15:41	9° × ⁷ 49'15	20°01'06
morning rise				morning max el			20 01 00
direct	3563 Dec 31 03:27	21° × ⁷ 07'50			3565 Jan 05 19:50	0° ろ	
morning max el	3564 Jan 08 16:33	26° ₹ 05'42	21°13'12	desc. node	3565 Jan 10 05:08	6° ප 35'06	
	3564 Jan 12 05:19	0°ප		morning set	3565 Jan 17 09:51	17° る 35'27	
desc. node	3564 Jan 24 08:05	16° る 22'48			3565 Jan 25 08:38	0° ≈	
	3564 Feb 02 11:12	0° ≈		max. Earth dist.	3565 Jan 28 08:43	4° ≈ 46′13	1.43975 AU
morning set	3564 Feb 08 13:30	9° ≈ 27'01					
max. Earth dist.	3564 Feb 15 23:05	21° ≈ 19'38	1.42362 AU	superior conj	3565 Feb 02 18:28	13° ≈ 29'46	-2°01'21
	3564 Feb 21 04:07	0°) €		minimum elong	3565 Feb 02 13:44	13°≈10′26	
	3301100 21 01.07	٠ , ,		minimum ciong	3565 Feb 12 15:47	0° ∀	2 01 00
	25(4 E-L 22 0(.15	3° ¥ 33'27	2006146			5°) 28'42	
superior conj	3564 Feb 23 06:15			evening rise	3565 Feb 15 20:35		
minimum elong	3564 Feb 23 07:12	3°) (37′32	2°06'46	asc. node	3565 Mar 01 21:12	28°) €27'18	
evening rise	3564 Mar 05 15:09	23°) (40′44			3565 Mar 03 00:55	$0^{\circ}\Upsilon$	
	3564 Mar 09 03:18	0 ° $\mathbf{\Upsilon}$		evening max el	3565 Mar 05 19:12	3° Y 10′57	18°11'30
asc. node	3564 Mar 15 00:10	10° Ƴ 07'58		retrograde	3565 Mar 12 05:33	6° Ƴ 35′05	
evening max el	3564 Mar 22 06:31	19° Ƴ 56′05	18°07'57	evening set	3565 Mar 15 02:46	5° Y 52′10	
retrograde	3564 Mar 28 22:55	23° Y 20′27		inferior conj	3565 Mar 21 06:06	0° Ƴ 36'31	3°35'47
evening set	3564 Mar 31 14:22	22° Ƴ 48'45		minimum elong	3565 Mar 21 06:55	0° Υ 34'19	3°35'45
inferior conj	3564 Apr 07 05:59	17° Ƴ 53'06	3°15'22	•	3565 Mar 21 19:34	30°₽)	
minimum elong	3564 Apr 07 08:36	17° Y 46'52	3°14'58	min. Earth dist.	3565 Mar 23 22:42	27°) 43'05	0.62959 AU
min. Earth dist.	3564 Apr 10 11:27	14° Υ 49'58	0.60867 AU	morning rise	3565 Mar 27 09:58	24°) (32'24	0.02/3/110
	-	12° \begin{pmatrix} \partial \gamma \ga	0.00807 AC	•		24 X 52 24 21° X 53'51	
morning rise	3564 Apr 14 00:49			direct	3565 Apr 03 07:45		
direct	3564 Apr 20 17:57	9° Y 47'25		desc. node	3565 Apr 08 04:18	23°) €02'08	
desc. node	3564 Apr 21 07:17	9° Ƴ 48'18			3565 Apr 17 09:54	$0^{\circ}\mathbf{\Upsilon}$	
morning max el	3564 May 04 23:58	17° Ƴ 42'47	27°45'09	morning max el	3565 Apr 17 06:33	29° ∺ 51'36	27°48'09
	3564 May 15 05:43	$6^{\circ}B$			3565 May 09 05:21	9° 8	
	3564 Jun 02 06:29	$\Pi^{\circ}0$		morning set	3565 May 21 12:04	22° 8 41'02	
morning set	3564 Jun 06 12:30	8° Ⅱ 30'39		_	3565 May 25 01:29	$\Pi^{\circ}0$	
asc. node	3564 Jun 10 23:26	17° Ⅱ 56'23		max. Earth dist.	3565 May 26 20:54	3° Ⅱ 49'37	1.32698 AU
max. Earth dist.	3564 Jun 12 14:36	21° Ⅱ 29'15	1.32170 AU	asc. node	3565 May 28 20:29	8° Ⅱ 04'52	
man. Barar alov.	300.0411 12 150	21 22,10	1.521,0110	ase. node	2000 1114, 20 20.25	0 20.02	
superior conj	3564 Jun 13 19:21	24° Ⅱ 06'41	0°29'24	superior conj	3565 May 29 03:48	8° ∏ 44'28	0°03'13
		23° I I59'36	0°29'06		•	8° Д 43'37	0°03'11
minimum elong	3564 Jun 13 18:04		0 29 00	minimum elong	3565 May 29 03:39		0 03 11
	3564 Jun 16 11:42	0.20		behind sun begin	3565 May 28 22:30	8° Ⅱ 15'46	
evening rise	3564 Jun 20 15:33	9° 5 00'48		behind sun end	3565 May 29 08:48	9° Ⅱ 11'29	
	3564 Jul 01 11:06	0 $^{\circ}$ Ω		evening rise	3565 Jun 05 03:23	23° Ⅱ 49'54	
evening max el	3564 Jul 17 05:42	21° Ω 21'06	25°10'32		3565 Jun 08 02:28	0	
desc. node	3564 Jul 18 06:33	22° Ω 18'42			3565 Jun 26 23:03	$0^{\circ}\Omega$	
retrograde	3564 Jul 31 05:03	28° Ω 26′03		evening max el	3565 Jun 28 19:00	1° Ω 52'25	23°36'50
evening set	3564 Aug 05 19:07	27° Ω 14′23		desc. node	3565 Jul 05 03:32	6° Ω 42'29	
min. Earth dist.	3564 Aug 10 17:28		0.57609 AU	retrograde	3565 Jul 12 10:17	8° Ω 42'37	
inferior conj	3564 Aug 13 18:18	22° Ω 27'44		evening set	3565 Jul 16 13:12	8° Ω 05′23	
minimum elong	3564 Aug 13 18:38	22° Ω 27'12		min. Earth dist.	3565 Jul 23 05:03		0.55958 AU
-	-		3 00 00				
morning rise	3564 Aug 21 20:33	18° Ω 15'01		inferior conj	3565 Jul 25 08:21	3° Ω 41'37	
direct	3564 Aug 24 09:48	17° Ω 55'44		minimum elong	3565 Jul 25 02:45	3° Ω 50′02	4°46'5/
morning max el	3564 Sep 02 05:43	22° Ω 05′25	19°02'45		3565 Aug 01 21:50	30° ₹ 55	
asc. node	3564 Sep 06 22:40	27° Ω 37'14		morning rise	3565 Aug 02 18:49	29° 5 46'20	
	3564 Sep 08 13:44	O° Mp		direct	3565 Aug 05 14:12	29° 5 26'41	
morning set	3564 Sep 18 23:44	18° Mp 52′50			3565 Aug 09 03:12	$0^{\circ}\Omega$	
	3564 Sep 24 14:40	0∘ ⊽		morning max el	3565 Aug 15 21:14	4° Ω 13'17	20°08'45
				asc. node	3565 Aug 24 19:42	15° Ω 51'00	
superior conj	3564 Sep 27 07:34	5° ≏ 15'17	1°38'03		3565 Sep 01 11:23	0° m	
minimum elong	3564 Sep 27 07:54 3564 Sep 27 09:46	5° £ 25'55	1°37'54	morning set	3565 Sep 03 04:27	3°Mp27'16	
max. Earth dist.	=	3 ≗ 23 33	1.38728 AU	morning set	2202 BCp 02 04.27	10 / 2 پارا د	
	3564 Oct 04 01:41		1.30/20 AU		2565 0 10 21 25	100 m- 00140	1044!10
evening rise	3564 Oct 07 21:42	24° £ 36′21		superior conj	3565 Sep 10 21:05	19° Mp 09'42	1°44'18
	3564 Oct 11 01:53	0°M₊		minimum elong	3565 Sep 10 21:34	19° m 12'11	1°44'18

	3565 Sep 16 09:47	0∘ ⊽		max. Earth dist.	3566 Aug 29 19:34	11° m 42'14	1.34988 AU
max. Earth dist.	3565 Sep 16 07:29	29° m 49'04	1.36725 AU	evening rise	3566 Sep 03 03:50	20° m 13'53	1.5 1,500 110
evening rise	3565 Sep 20 03:59	7° ♀ 00'04		0.00000	3566 Sep 08 10:59	0∘ ⊽	
desc. node	3565 Oct 01 02:52	25° ≙ 40'05		desc. node	3566 Sep 17 23:51	15° ≏ 51'31	
	3565 Oct 03 21:18	0° M ₊			3566 Sep 27 20:26	0°M	
evening max el	3565 Oct 25 21:53	28°M33'27	25°49'14	evening max el	3566 Oct 08 10:19	12° M 11'49	26°45'33
	3565 Oct 27 10:49	0° ∡ ¹		retrograde	3566 Oct 21 11:26	19°M27'15	
retrograde	3565 Nov 07 07:05	5° ∡ 37'12		evening set	3566 Oct 28 02:36	16°M46'42	
evening set	3565 Nov 13 09:24	3° ₹ 05'31		min. Earth dist.	3566 Nov 01 03:08	12°M42'36	0.65878 AU
	3565 Nov 16 09:49	30°RM₊		inferior conj	3566 Nov 02 22:47	10°M34'16	
min. Earth dist.	3565 Nov 17 16:53	28°M25'22	0.66911 AU	minimum elong	3566 Nov 03 01:25	10°M26'29	1°34'40
inferior conj	3565 Nov 19 00:48	26°M44'36		asc. node	3566 Nov 07 15:58	5°M45'43	
minimum elong	3565 Nov 19 01:45	26°M41'36	0°35'44	morning rise	3566 Nov 09 00:59	4°M52'53	
asc. node morning rise	3565 Nov 20 18:56 3565 Nov 24 18:27	24°M34'45 20°M51'49		direct morning max el	3566 Nov 11 21:36 3566 Nov 18 11:20	4°M07'34 7°M41'43	18°22'06
direct	3565 Nov 28 00:13	19°M51'30		morning max er	3566 Dec 03 23:21	0°×7	18 22 00
morning max el	3565 Dec 04 22:31	23°M42'39	19°03'35	morning set	3566 Dec 07 22:35	6° ∡ 124'05	
morning max cr	3565 Dec 10 04:26	0° √	17 03 33	desc. node	3566 Dec 14 23:09	17° х 40'03	
morning set	3565 Dec 27 14:54	26° ⊀ 18′26		dese. Hode	3566 Dec 22 18:15	0°る	
desc. node	3565 Dec 28 02:09	27° х 02'18					
	3565 Dec 29 23:42	0°ರ		superior conj	3566 Dec 23 08:53	0° る 57'31	-0°55'08
max. Earth dist.	3566 Jan 11 00:48	18° る 51'20	1.44967 AU	minimum elong	3566 Dec 23 02:00	0° る 30'27	0°54'16
				max. Earth dist.	3566 Dec 24 19:50	3° る 14'41	1.45234 AU
superior conj	3566 Jan 13 06:48	22° る 24'16	-1°36'36	evening rise	3567 Jan 08 12:31	26° る 17'00	
minimum elong	3566 Jan 12 21:46	21° る 48'34	1°35'46		3567 Jan 10 21:17	0° ≈	
	3566 Jan 18 01:35	0°≈		greatest brilliancy	3567 Jan 19 02:46	12° ≈ 51'41	-0.8m
evening rise	3566 Jan 28 04:07	16° ≈ 20′26		evening max el	3567 Jan 31 16:11	0° 米 04'39	19°13'04
_	3566 Feb 05 12:51	0°) (3567 Jan 31 14:23	0°) {	
asc. node	3566 Feb 16 18:14	16° ₩ 01'30	10022122	asc. node	3567 Feb 03 15:16	2°) €37'56	
evening max el	3566 Feb 17 07:11	16° ∺ 35'18 20° ∺ 12'07	18°33'32	retrograde	3567 Feb 07 16:39	4° ₩ 04'55 2° ₩ 57'11	
retrograde evening set	3566 Feb 23 20:40 3566 Feb 26 23:43	19° H 17'11		evening set	3567 Feb 11 02:25 3567 Feb 14 07:14	2°π3/11 30°R≈	
inferior conj	3566 Mar 04 18:24	13°) (43'08	3°36'24	inferior conj	3567 Feb 16 15:25	27°≈07'00	3°22'10
minimum elong	3566 Mar 04 17:36	13°) (45'31	3°36'21	minimum elong	3567 Feb 16 13:31	27°≈13'05	3°21'52
min. Earth dist.	3566 Mar 06 19:30	11°) 17'07	0.64761 AU	min. Earth dist.	3567 Feb 18 01:15	25°≈18'25	0.66172 AU
morning rise	3566 Mar 10 10:57	7°) € 32'43		morning rise	3567 Feb 22 00:20	20°≈53'40	
direct	3566 Mar 17 05:01	4°) 42'37		direct	3567 Feb 28 08:53	18° ≈ 05′20	
desc. node	3566 Mar 26 01:21	8°) €26'59		desc. node	3567 Mar 12 22:23	25° ≈ 28'50	
morning max el	3566 Mar 30 16:08	12°) 34′01	27°15'56	morning max el	3567 Mar 13 02:04	25° ≈ 38′05	26°15'18
	3566 Apr 13 15:24	0 ° $\mathbf{\Upsilon}$			3567 Mar 17 02:10	0°) €	
	3566 May 01 18:46	0° 8			3567 Apr 07 03:52	0 ° Υ	
morning set	3566 May 05 02:50	6° 8 21'30		morning set	3567 Apr 18 05:05	19° Y 21'34	
max. Earth dist.	3566 May 09 18:49	15° 8 41'28	1.33669 AU	max. Earth dist.	3567 Apr 22 05:21		1.35101 AU
	25(C)M 12 07.41	220 🗸 02122	0924159		3567 Apr 23 17:43	0°8	
superior conj	3566 May 13 07:41 3566 May 13 08:58	23° 8 03'33 23° 8 10'20		gumariar agni	2567 Amr. 27 04:40	6° 8 57'41	0052152
minimum elong asc. node	3566 May 15 17:31	28° 8 10'34	0 24 42	superior conj minimum elong	3567 Apr 27 04:40 3567 Apr 27 07:31	7° 8 12'14	
asc. node	3566 May 16 14:01	0°II		asc. node	3567 May 02 14:33	18° 8 09'39	0 33 20
evening rise	3566 May 20 14:21	8° ∏ 31'28		evening rise	3567 May 04 22:30	22° 8 59'32	
<i>y</i>	3566 May 31 22:51	0ಂತಾ		<i>8</i> 21	3567 May 08 09:38	0°Щ	
evening max el	3566 Jun 10 10:52	12°©19'25	22°00'51	evening max el	3567 May 23 12:37	23° Ⅱ 13'24	20°35'48
desc. node	3566 Jun 22 00:33	18°533'58		retrograde	3567 Jun 03 17:04	28° ∏ 40′55	
retrograde	3566 Jun 23 04:02	18° 5 37'00		evening set	3567 Jun 05 18:02	28° Ⅱ 30'45	
evening set	3566 Jun 25 22:07	18° © 20'05		desc. node	3567 Jun 08 21:35	27° Ⅱ 38'35	
min. Earth dist.	3566 Jul 04 15:38	14° © 35'51	0.54986 AU	inferior conj	3567 Jun 14 23:57	24° Ⅱ 33'13	
inferior conj	3566 Jul 05 06:18	14°9515'17		minimum elong	3567 Jun 14 18:54	24° Ⅱ 40'30	
minimum elong	3566 Jul 04 21:55	14°527'04	3°35'13	min. Earth dist.	3567 Jun 16 03:44	23° I I53'11	0.54942 AU
morning rise	3566 Jul 13 23:23	10°523'57		morning rise	3567 Jun 23 19:00	20° ∏ 25'08	
direct	3566 Jul 17 02:59	10°901'59	21024157	direct	3567 Jun 27 12:25	19° ∏ 55'12	22015102
morning max el	3566 Jul 29 01:04 3566 Aug 09 00:12	15° © 36′18 0° Ω	21°34'57	morning max el	3567 Jul 10 19:26 3567 Jul 14 07:32	26°∏20′23 0°©	23°15'02
asc. node	3566 Aug 11 16:45	0 δι 4°Ω42'49		asc. node	3567 Jul 29 13:47	0 \$3 24°\$02'50	
morning set	3566 Aug 18 13:22	18° Ω 14'12		asc. nouc	3567 Aug 01 12:38	24 3 02 30	
	3566 Aug 24 03:33	0° Mp		morning set	3567 Aug 01 12:38 3567 Aug 03 00:32	3° Ω 07'22	
		• भ				. 000, 22	
superior conj	3566 Aug 25 20:11	3° m 32'55	1°42'55	superior conj	3567 Aug 10 01:43	18° Ω 14'35	1°35'12
minimum elong	3566 Aug 25 19:16	3° m/28′07		minimum elong	3567 Aug 09 23:51	18° Ω 04'34	
3	-			3	=		

max. Earth dist.	3567 Aug 12 16:25	23° Ω 47'58	1.33635 AU	morning max el	3568 Jun 21 09:34	6° ∏ 45'21	24°57'02
	3567 Aug 15 16:10	0° m)		Ü	3568 Jul 08 07:12	0° ©	
evening rise	3567 Aug 17 16:56	4° m 05'39		asc. node	3568 Jul 15 10:50	13°5643'43	
	3567 Sep 01 04:49	0∘ 亚		morning set	3568 Jul 17 12:20	18° © 02'00	
desc. node	3567 Sep 04 20:52	5° ≏ 38'31			3568 Jul 23 01:02	$0^{\circ}\Omega$	
evening max el	3567 Sep 20 22:17	25° ≙ 36'11	27°19'35				
	3567 Sep 26 07:33	0°M		superior conj	3568 Jul 24 11:16	3° Ω 07'15	1°22'11
retrograde	3567 Oct 04 10:08	2°M54'49		minimum elong	3568 Jul 24 08:58	2° Ω 54'37	1°21'52
evening set	3567 Oct 11 10:53	0° M ₊13'27		max. Earth dist.	3568 Jul 25 21:29	6° Ω 13'34	1.32707 AU
	3567 Oct 11 17:47	30° ₹ Ω		evening rise	3568 Jul 31 15:40	18° Ω 25'17	
min. Earth dist.	3567 Oct 15 05:21	26° ≏ 44'14	0.64491 AU		3568 Aug 06 13:10	0° ™	
inferior conj	3567 Oct 17 13:16	24° ≏ 14'06	-2°36'34	desc. node	3568 Aug 21 17:55	24° m 50'54	
minimum elong	3567 Oct 17 17:37	24° ≏ 02'24	2°34'57		3568 Aug 25 14:57	0∘ ⊽	
morning rise	3567 Oct 24 01:30	18° ≏ 47'07		evening max el	3568 Sep 02 08:12	8° ჲ 34'53	27°24'51
asc. node	3567 Oct 25 13:01	18° ≏ 19'10		retrograde	3568 Sep 16 02:20	15° ≏ 50'46	
direct	3567 Oct 26 15:22	18° ≙ 12'54		evening set	3568 Sep 23 06:59	13° ≏ 19'40	
morning max el	3567 Nov 02 03:22	21° ≏ 39'18	17°57'29	min. Earth dist.	3568 Sep 26 21:47	10° ≏ 20'31	0.62779 AU
	3567 Nov 08 13:51	0°M₊		inferior conj	3568 Sep 29 17:28	7° ≏ 37'45	
morning set	3567 Nov 19 11:08	17°M54'26		minimum elong	3568 Sep 29 23:04	7° ≏ 24'13	3°33'37
	3567 Nov 26 16:42	0° ∡		morning rise	3568 Oct 06 16:42	2° £ 28'22	
desc. node	3567 Dec 01 20:09	8° ∡ ¹24'07		direct	3568 Oct 09 02:34	2° Ω 01'38	
		_		asc. node	3568 Oct 11 10:03	2° Ω 26'52	
superior conj	3567 Dec 02 21:41	10° ∡ 107'00		morning max el	3568 Oct 15 19:41	5° £ 28'23	17°50'35
minimum elong	3567 Dec 02 20:49	10° ∡ ′03'31	0°07'10	morning set	3568 Oct 31 23:05	0°M32'19	
behind sun begin	3567 Dec 02 11:27	9° ∡ ¹25'51			3568 Oct 31 15:47	0°M₊	
behind sun end	3567 Dec 03 06:10	10° ∡ ′41′08					
max. Earth dist.	3567 Dec 07 14:26	17° ∡ ³36'41	1.44763 AU	superior conj	3568 Nov 12 11:03	20°M29'29	0°35'56
	3567 Dec 15 12:27	0°る		minimum elong	3568 Nov 12 14:22	20°M43'24	0°35'29
evening rise	3567 Dec 19 02:46	5° る 33'16	0.6	desc. node	3568 Nov 17 17:11	29°M11'21	
greatest brilliancy	3568 Jan 02 15:38	27° る 33'23	-0.6m	n d r	3568 Nov 18 05:09	0° 🗷	1 42610 444
	3568 Jan 04 07:52	0°≈	20000110	max. Earth dist.	3568 Nov 19 06:28	1° 🖈 42'29	1.43619 AU
evening max el	3568 Jan 14 20:32	13°≈35'57	20°08'19	evening rise	3568 Nov 27 12:26	14°⊀⁴44'41 0°る	
asc. node	3568 Jan 21 12:18	18°≈01'40			3568 Dec 07 13:48	0°る 27° る 08'44	21917120
retrograde	3568 Jan 22 14:36	18°≈08'14		evening max el	3568 Dec 27 19:27	2/°008′44 0°≈	21-16-20
evening set inferior conj	3568 Jan 26 08:30 3568 Jan 31 18:14	16°≈46'32 10°≈42'48	2°56'31	ratra arada	3568 Dec 30 23:31 3569 Jan 05 12:18	0°≈ 2°≈18'24	
minimum elong	3568 Jan 31 15:48	10 ≈42 48 10°≈51'01	2°55'56	retrograde asc. node	3569 Jan 07 09:21	2 ≈16 24 1°≈59'08	
min. Earth dist.	3568 Feb 01 14:10	9°≈35'38	0.67166 AU	evening set	3569 Jan 09 16:06	0°≈41'30	
morning rise	3568 Feb 05 22:52	4°≈28'57	0.07100 AC	evening set	3569 Jan 10 11:27	0 ≈41 30 30°Rる	
direct	3568 Feb 11 18:26	1°≈53'04		inferior conj	3569 Jan 15 00:30	24°る27'08	2°21'43
morning max el	3568 Feb 23 10:48		24°55'44	minimum elong	3569 Jan 14 22:02	24° ප 35'40	
desc. node	3568 Feb 27 19:25	13° ≈ 39'47	21 33 11	min. Earth dist.	3569 Jan 15 07:55	24° පි 01'30	0.67760 AU
dese. node	3568 Mar 11 02:04	0° ∀		morning rise	3569 Jan 20 03:46	18°る14'31	0.07700710
	3568 Mar 29 18:11	0° Υ		direct	3569 Jan 25 08:44	15° ප 58'11	
morning set	3568 Mar 30 13:54	1° Y 27'24		morning max el	3569 Feb 04 19:29	22° る 11'07	23°27'28
max. Earth dist.	3568 Apr 03 05:04	8° Ƴ 02'22	1.36953 AU	Ü	3569 Feb 11 14:41	0° ≈	
	r			desc. node	3569 Feb 13 16:26	2° ≈ 39'55	
superior conj	3568 Apr 09 15:48	20° Ƴ 19'10	-1°21'42		3569 Mar 04 09:53	0°)	
minimum elong	3568 Apr 09 19:59	20° Ƴ 39'40	1°21'04	morning set	3569 Mar 11 23:03	12° ∺ 21'19	
	3568 Apr 14 12:33	0°8		max. Earth dist.	3569 Mar 16 00:02	19°) 18'11	1.39088 AU
evening rise	3568 Apr 18 01:33	7° 8 07'46			3569 Mar 21 22:57	$0^{\circ}\mathbf{\Upsilon}$	
asc. node	3568 Apr 18 11:36	7° 8 58'08					
	3568 Apr 30 23:54	$\Pi^{\circ}0$		superior conj	3569 Mar 23 13:10	2° Y 57'08	-1°45'50
evening max el	3568 May 05 02:43	4° Ⅱ 48'59	19°28'40	minimum elong	3569 Mar 23 17:47	3° Y 18'42	1°45'23
retrograde	3568 May 14 13:24	9° Ⅱ 24'08		evening rise	3569 Apr 01 20:40	20° Ƴ 47'41	
evening set	3568 May 16 13:16	9° Ⅱ 12'46		asc. node	3569 Apr 05 08:40	27° Y 30'14	
inferior conj	3568 May 25 03:52	5° Ⅱ 07'21	0°10'48		3569 Apr 06 16:43	9° 8	
minimum elong	3568 May 25 04:20	5° Ⅱ 06'36	0°10'36	evening max el	3569 Apr 18 03:18	17° 8 02'52	18°41'29
transit middle	3568 May 25 04:20	5° Ⅱ 06'36	0°10'36	retrograde	3569 Apr 26 03:00	20° 8 57'40	
transit begin	3568 May 25 01:25	5° Ⅱ 11'17		evening set	3569 Apr 28 08:32	20° 8 40'29	
transit end	3568 May 25 07:15	5° Ⅱ 01'54		inferior conj	3569 May 06 03:15	16° 8 17'07	1°47'38
desc. node	3568 May 25 18:38	4° Ⅱ 43'31		minimum elong	3569 May 06 06:44	16° 8 10'35	1°46'33
min. Earth dist.	3568 May 27 18:02	3° Ⅱ 27'42	0.55856 AU	min. Earth dist.	3569 May 09 11:11	13° 8 48'19	0.57527 AU
morning rise	3568 Jun 02 16:36	0° Ⅱ 27'15		desc. node	3569 May 12 15:40	11° 8 45'41	
	3568 Jun 04 06:36	30° ₹ 8		morning rise	3569 May 14 01:44	11° 8 02'38	
direct	3568 Jun 07 07:42	29° 8 38'46		direct	3569 May 19 16:50	9° 8 44'18	
	3568 Jun 10 08:35	Π °0		morning max el	3569 Jun 03 01:25	17° 8 17'40	26°25'37

	3569 Jun 13 13:05	0°Щ			3570 Jun 07 06:48	0° I I	
	3569 Jun 30 14:09	0°©		morning set	3570 Jun 16 07:06	17° ∏ 32'02	
morning set	3569 Jul 01 23:05	2° 9 51'58		asc. node	3570 Jun 19 04:57	23° II 42'20	
asc. node	3569 Jul 02 07:54	3°938'32		asc. node	3570 Jun 22 02:20	0°95	
use. Hous	300,000	5 05052			5070 tun 22 02:20	• •	
superior conj	3569 Jul 08 22:46	18° 5 03'09	1°04'38	superior conj	3570 Jun 23 10:27	2°956'37	0°43'13
minimum elong	3569 Jul 08 20:30	17° © 50'37	1°04'14	minimum elong	3570 Jun 23 08:40	2° © 46'51	0°42'51
max. Earth dist.	3569 Jul 09 07:51	18° © 53'09	1.32189 AU	max. Earth dist.	3570 Jun 22 19:45	1°535'45	1.32066 AU
	3569 Jul 14 10:25	$0^{\circ}\Omega$		evening rise	3570 Jun 30 06:20	17°5949'35	
evening rise	3569 Jul 15 20:56	3° Ω 02'27			3570 Jul 06 06:24	$0^{\circ}\Omega$	
	3569 Jul 30 09:20	0° m)		desc. node	3570 Jul 26 11:59	0° Mp 26'44	
desc. node	3569 Aug 08 14:58	13° m 13'40			3570 Jul 26 01:56	0° m)	
evening max el	3569 Aug 15 13:16	20° m 53'59	26°57'12	evening max el	3570 Jul 28 11:02	2° m 24'47	25°57'03
retrograde	3569 Aug 29 10:51	28° m 05'37		retrograde	3570 Aug 11 10:25	9° m 33'06	
evening set	3569 Sep 05 10:37	25° m 57'21		evening set	3570 Aug 17 16:57	7° m 58'50	
min. Earth dist.	3569 Sep 09 03:29	23° m 17'55	0.60811 AU	min. Earth dist.	3570 Aug 21 23:25	5° Mg 22'40	0.58743 AU
inferior conj	3569 Sep 12 08:03	20° Mp 36'10	-4°26'31	inferior conj	3570 Aug 25 05:26	2° m 59'35	-5°01'01
minimum elong	3569 Sep 12 13:37	20° m 24'19	4°25'22	minimum elong	3570 Aug 25 08:33	2° m 53'52	5°00'45
morning rise	3569 Sep 19 18:28	15° m 47'46			3570 Aug 29 16:45	30° R Ω	
direct	3569 Sep 22 03:24	15° m 25'33		morning rise	3570 Sep 02 02:21	28° Ω 34'28	
asc. node	3569 Sep 28 07:05	18° m 01'52		direct	3570 Sep 04 13:21	28° Ω 14'34	
morning max el	3569 Sep 29 09:07	19° m 00'48	18°02'36		3570 Sep 10 00:35	0° m)	
	3569 Oct 07 09:27	0∘ ⊽		morning max el	3570 Sep 12 16:26	2° m 07'59	18°34'47
morning set	3569 Oct 15 04:06	13° ≏ 58'47		asc. node	3570 Sep 15 04:08	4° m 50'16	
	3569 Oct 23 21:50	0° M		morning set	3570 Sep 28 21:04	27° m 59'06	
					3570 Sep 29 22:01	0∘ ⊽	
superior conj	3569 Oct 25 02:52	2°M09'17	1°08'48				
minimum elong	3569 Oct 25 07:06	2°M28′00	1°08'17	superior conj	3570 Oct 07 16:39	14° ≏ 53'31	1°30'21
max. Earth dist.	3569 Nov 01 18:04	15° M ₊17'04	1.41933 AU	minimum elong	3570 Oct 07 19:49	15° ≏ 08'19	1°30'04
desc. node	3569 Nov 04 14:15	19°M58'22		max. Earth dist.	3570 Oct 15 00:28	28° ≏ 08'12	1.39920 AU
evening rise	3569 Nov 07 09:41	24°M30'51			3570 Oct 16 02:14	0° M ₊	
	3569 Nov 10 21:01	0° ∡ ¹		evening rise	3570 Oct 19 04:30	5° M ₊16'01	
	3569 Dec 01 12:50	್ರಂತ		desc. node	3570 Oct 22 11:16	10° M .41'14	
evening max el	3569 Dec 10 13:13	10°る43'31	22°32'59		3570 Nov 04 00:40	0° ⊼ ¹	
retrograde	3569 Dec 20 08:08	16° る 32'29		evening max el	3570 Nov 23 03:09	24° 🗷 20'41	23°52'57
evening set	3569 Dec 24 23:33	14° る 39'19			3570 Nov 30 15:38	0°る	
asc. node	3569 Dec 25 06:22	14° る 24'50	1020125	retrograde	3570 Dec 04 00:47	0°る46'02	
inferior conj	3569 Dec 30 08:12	8°る17'41	1°39'25		3570 Dec 07 03:55	30°R ✓	
minimum elong	3569 Dec 30 06:10	8° る 24'44	1°38'40	evening set	3570 Dec 09 05:15	28° 🗷 36'33	
min. Earth dist.	3569 Dec 30 04:12		0.67973 AU	asc. node	3570 Dec 12 03:23	25° ∡ 730′24	0.67927 ATT
morning rise	3570 Jan 04 12:40	2°る08'01		min. Earth dist.	3570 Dec 14 00:42	23°× 7 01'51	0.67827 AU 0°50'46
direct	3570 Jan 09 02:50 3570 Jan 18 07:34	0°る14'26 5°る38'06	22900100	inferior conj	3570 Dec 14 15:31 3570 Dec 14 14:21	22° х 11′30 22° х 15′29	0°50'17
morning max el desc. node	3570 Jan 31 13:29	22° る 15'35	22 00 09	minimum elong morning rise	3570 Dec 14 14.21 3570 Dec 19 23:29	22 x ·13 29 16° x ⁷ 06'34	0 30 17
desc. node	3570 Feb 05 22:25	0° ≈		direct	3570 Dec 19 23:29 3570 Dec 23 23:41	14° х 35'45	
morning set	3570 Feb 03 22.23 3570 Feb 20 03:40	0 ≈ 21°≈53'07		morning max el	3570 Dec 23 23:41 3571 Jan 01 02:16	14 x 35 45 19° x 15'38	20°41'02
morning set	3570 Feb 25 02:44	0° \		morning max er	3571 Jan 09 21:05	0°중	20 41 02
max. Earth dist.	3570 Feb 25 22:20		1.41240 AU	desc. node	3571 Jan 18 10:30	12°る16'26	
max. Lattii dist.	3370100 23 22.20	1 /(2141	1.41240 AO	morning set	3571 Jan 30 06:55	0°≈16'49	
superior conj	3570 Mar 05 15:58	14° ¥ 40'16	-2°02'29	morning set	3571 Jan 30 02:35	0°≈	
minimum elong	3570 Mar 05 19:06	14°) 54'03		max. Earth dist.	3571 Feb 08 03:38		1.43114 AU
minimum ciong	3570 Mar 14 02:34	0°Υ	2 02 21	max. Earth dist.	3371100 00 03.30	11701750	1.13111110
evening rise	3570 Mar 16 04:29	3° Υ ′51'29		superior conj	3571 Feb 14 19:07	25°≈16'35	-2°06'41
asc. node	3570 Mar 23 05:43	16° Y ′40'17		minimum elong	3571 Feb 14 17:51	25°≈11'17	
evening max el	3570 Apr 01 11:07	29° Y '47'17	18°14'25	mmmum viong	3571 Feb 17 14:10	0°) €	2 0037
	3570 Apr 01 16:23	0°8		evening rise	3571 Feb 26 20:48	16° ¥ 09'37	
retrograde	3570 Apr 08 11:39	3° 8 18'24			3571 Mar 06 19:06	0°Υ	
evening set	3570 Apr 10 23:36	2° 8 52'31		asc. node	3571 Mar 10 02:44	5° Υ 20'39	
5	3570 Apr 15 19:14	30° R Υ		evening max el	3571 Mar 15 22:49	12° Υ 53'01	18°07'02
inferior conj	3570 Apr 18 00:01	28° Y ′08'19	2°52'08	retrograde	3571 Mar 22 11:36	16° Y 15'57	
minimum elong	3570 Apr 18 03:27	28° Y ′00'46	2°51'24	evening set	3571 Mar 25 05:25	15° Ƴ 39'42	
min. Earth dist.	3570 Apr 21 09:35	25° Y 10'43	0.59616 AU	inferior conj	3571 Mar 31 15:20	10° Ƴ 35'13	3°26'49
morning rise	3570 Apr 25 04:47	22° Y ′26'44		minimum elong	3571 Mar 31 17:12	10° Ƴ 30'31	3°26'37
desc. node	3570 Apr 29 12:41	20° Ƴ 44'55		min. Earth dist.	3571 Apr 03 15:51	7° Ƴ 33'29	0.61783 AU
direct	3570 May 01 14:43	20° Ƴ 32'57		morning rise	3571 Apr 07 03:22	4° Ƴ 36'40	
morning max el	3570 May 15 23:09	28° Y ′22'20	27°26'24	direct	3571 Apr 13 23:23	2° Y 11'13	
-	3570 May 17 13:24	0°8		desc. node	3571 Apr 16 09:42	2° Y 28'14	
	÷				=		

morning max el	3571 Apr 28 03:13	10° Ƴ 09'01	27°51'01	morning rise	3572 Mar 19 19:41	17° ¥ 22'08	
morning max er	3571 Apr 28 03:13 3571 May 13 13:54	0° 8	27 3101	direct	3572 Mar 26 16:47	14°\(\)36'36	
	3571 May 13 13:34 3571 May 30 11:37	0°II		desc. node	3572 Nrai 20 10.47 3572 Apr 02 06:43	14 X 30 30	
morning set	3571 May 30 11:37 3571 May 31 10:27	1° П 55'49		morning max el	3572 Apr 02 00:43 3572 Apr 09 11:27	22° X 33'52	27°38'10
max. Earth dist.	3571 Jun 06 05:16	14° ∏ 08'11	1.32341 AU	morning max ci	3572 Apr 05 11:27 3572 Apr 16 00:57	0° Υ	27 30 17
asc. node	3571 Jun 06 02:00	13° I I50'33	1.52541 710		3572 May 05 19:09	°8 0°8	
use. Houe	3371 Juli 00 02.00	15 11 30 33		morning set	3572 May 14 06:40	15° 8 55'02	
superior conj	3571 Jun 07 20:35	17° ∏ 42'02	0°18'34	max. Earth dist.	3572 May 14 00:40 3572 May 19 08:15	26° 8 16'45	1.33050 AU
minimum elong	3571 Jun 07 19:44	17° I I37'23		max. Earth dist.	3572 May 21 02:28	0°II	1.55050710
minimum ciong	3571 Jun 13 11:57	0°95	0 10 23		5572 May 21 02.20	v =	
evening rise	3571 Jun 14 17:49	2° © 39'52		superior conj	3572 May 22 03:22	2° Ⅱ 12'59	-0°08'35
evening rise	3571 Jun 29 12:08	0° Ω		minimum elong	3572 May 22 03:48	2° I 15'15	0°08'29
evening max el	3571 Jul 10 02:02	13° Ω 12'07	24°31'53	behind sun begin	3572 May 21 23:14	1° П 50'49	0 002)
desc. node	3571 Jul 13 08:59	16°Ω02'31	21 31 33	behind sun end	3572 May 22 08:21	2° П 39'42	
retrograde	3571 Jul 23 23:28	20°Ω13'22		asc. node	3572 May 22 00:21 3572 May 22 23:02	3° I 58'30	
evening set	3571 Jul 28 23:17	19° Ω 17'23		evening rise	3572 May 29 05:30	17° ∏ 26'32	
min. Earth dist.	3571 Aug 03 13:03	16° Ω 25'43	0.56837 AU	evening rise	3572 Jun 04 10:39	0°95	
inferior conj	3571 Aug 05 13:03 3571 Aug 06 07:00	14°Ω40'13		evening max el	3572 Jun 20 15:27		22°55'26
minimum elong	3571 Aug 06 07:00 3571 Aug 06 04:49	14° Ω 43'44		desc. node	3572 Jun 29 06:00	29° © 25'39	22 33 20
morning rise	3571 Aug 00 04:49 3571 Aug 14 12:58	10° Ω 36'24	3 03 03	dese. Hode	3572 Jul 01 06:12	0°Ω	
direct	3571 Aug 14 12:36 3571 Aug 17 04:29	10° Ω 17'15		retrograde	3572 Jul 03 23:49	0° Ω 17'03	
morning max el	3571 Aug 17 04:25 3571 Aug 26 14:36	14°Ω41'00	19°28'18	renograde	3572 Jul 06 18:31	30°Rூ	
asc. node	3571 Sep 02 01:11	22° Ω 37'15	17 20 10	evening set	3572 Jul 07 11:07	29° © 50'39	
asc. node	3571 Sep 02 01:11 3571 Sep 06 11:41	0° m)		min. Earth dist.	3572 Jul 15 00:16	26° © 29'15	0.55438 AU
morning set	3571 Sep 00 11:41 3571 Sep 12 22:19	12° m/23'38		inferior conj	3572 Jul 16 13:19	25°935'46	
morning set	5571 Sep 12 22.17	12 11/2330		minimum elong	3572 Jul 16 05:50	25°546'36	
superior conj	3571 Sep 20 22:57	28° m 26'58	1°41'44	morning rise	3572 Jul 25 02:50	21° 9 44'02	7 22 37
minimum elong	3571 Sep 20 22:37 3571 Sep 21 00:24	28° Mp 34'09	1°41'40	direct	3572 Jul 28 01:04	21°S23'53	
minimum clong	3571 Sep 21 00:24 3571 Sep 21 17:58	0° ⊡	1 4140	morning max el	3572 Aug 08 01:11	26°930'26	20°43'10
max. Earth dist.	3571 Sep 27 04:33	0 — 10° Ω 19'27	1.37844 AU	morning max er	3572 Aug 11 08:16	0°Ω	20 13 10
evening rise	3571 Sep 27 04:33 3571 Sep 30 22:42	10 — 1727 17° — 06'21	1.57044 AO	asc. node	3572 Aug 18 22:14	11° Ω 08'39	
evening rise	3571 Oct 08 13:24	0°M		morning set	3572 Aug 27 05:04	27° Ω 03'59	
desc. node	3571 Oct 00 13:24 3571 Oct 09 08:18	1°M16'18		morning sec	3572 Aug 28 15:10	0°m)	
dese. Hode	3571 Oct 09 00:16	0°×7			337271ug 20 13.10	y, i	
			25900125			120m-24/56	1044124
	3571 Nov 05 15:28				3572 Sen 03 16:59	1 / 110 34.36	
evening max el	3571 Nov 05 15:28	8° ≯ 01'29 14° ₹ 55'00	25°09'35	superior conj	3572 Sep 03 16:59	12° Mp 34'56	1°44'34 1°44'34
retrograde	3571 Nov 17 13:19	14° ≯ 55'00	23 0933	minimum elong	3572 Sep 03 16:49	12° m 34'08	1°44'34
retrograde evening set	3571 Nov 17 13:19 3571 Nov 23 07:34	14° х 55′00 12° х 30′33		minimum elong max. Earth dist.	3572 Sep 03 16:49 3572 Sep 08 12:10	12° Mp 34'08 22° Mp 11'18	
retrograde evening set min. Earth dist.	3571 Nov 17 13:19 3571 Nov 23 07:34 3571 Nov 27 19:10	14° ₹ 55'00 12° ₹ 30'33 7° ₹ 29'59	0.67340 AU	minimum elong	3572 Sep 03 16:49 3572 Sep 08 12:10 3572 Sep 12 13:03	12° m/34'08 22° m/11'18 29° m/53'09	1°44'34
retrograde evening set min. Earth dist. inferior conj	3571 Nov 17 13:19 3571 Nov 23 07:34 3571 Nov 27 19:10 3571 Nov 28 20:44	14° ₹ 55'00 12° ₹ 30'33 7° ₹ 29'59 6° ₹ 06'33	0.67340 AU -0°03'08	minimum elong max. Earth dist. evening rise	3572 Sep 03 16:49 3572 Sep 08 12:10 3572 Sep 12 13:03 3572 Sep 12 14:32	12° m 34'08 22° m 11'18 29° m 53'09 0° <u>a</u>	1°44'34
retrograde evening set min. Earth dist. inferior conj minimum elong	3571 Nov 17 13:19 3571 Nov 23 07:34 3571 Nov 27 19:10 3571 Nov 28 20:44 3571 Nov 28 20:48	14° ₹ 55'00 12° ₹ 30'33 7° ₹ 29'59 6° ₹ 06'33 6° ₹ 06'18	0.67340 AU -0°03'08 0°03'07	minimum elong max. Earth dist.	3572 Sep 03 16:49 3572 Sep 08 12:10 3572 Sep 12 13:03 3572 Sep 12 14:32 3572 Sep 25 05:19	12° M 34'08 22° M 11'18 29° M 53'09 0° Ω 21° Ω 37'55	1°44'34
retrograde evening set min. Earth dist. inferior conj minimum elong transit middle	3571 Nov 17 13:19 3571 Nov 23 07:34 3571 Nov 27 19:10 3571 Nov 28 20:44 3571 Nov 28 20:48 3571 Nov 28 20:48	14° \$\times^55'00 12° \$\times^330'33 7° \$\times^229'59 6° \$\times^06'33 6° \$\times^06'18 6° \$\times^06'18	0.67340 AU -0°03'08	minimum elong max. Earth dist. evening rise desc. node	3572 Sep 03 16:49 3572 Sep 08 12:10 3572 Sep 12 13:03 3572 Sep 12 14:32 3572 Sep 25 05:19 3572 Sep 30 17:30	12° ነ 34'08 22° ነ 11'18 29° ነ 53'09 0°	1°44'34 1.35943 AU
retrograde evening set min. Earth dist. inferior conj minimum elong transit middle transit begin	3571 Nov 17 13:19 3571 Nov 23 07:34 3571 Nov 27 19:10 3571 Nov 28 20:44 3571 Nov 28 20:48 3571 Nov 28 20:48 3571 Nov 28 18:05	14° ₹ 55'00 12° ₹ 30'33 7° ₹ 29'59 6° ₹ 06'33 6° ₹ 06'18 6° ₹ 15'12	0.67340 AU -0°03'08 0°03'07	minimum elong max. Earth dist. evening rise desc. node evening max el	3572 Sep 03 16:49 3572 Sep 08 12:10 3572 Sep 12 13:03 3572 Sep 12 14:32 3572 Sep 25 05:19 3572 Sep 30 17:30 3572 Oct 18 03:51	12° ነ 34'08 22° ነ 11'18 29° ነ 53'09 0° <u>ឆ</u> 21° <u>ឆ</u> 37'55 0° ነ ቤ42'54	1°44'34 1.35943 AU
retrograde evening set min. Earth dist. inferior conj minimum elong transit middle transit begin transit end	3571 Nov 17 13:19 3571 Nov 23 07:34 3571 Nov 27 19:10 3571 Nov 28 20:44 3571 Nov 28 20:48 3571 Nov 28 20:48 3571 Nov 28 18:05 3571 Nov 28 23:32	14° \$\tilde{\$7}55'00 12° \$\tilde{\$7}30'33 7° \$\tilde{\$7}29'59 6° \$\tilde{\$7}06'18 6° \$\tilde{\$7}06'18 6° \$\tilde{\$7}15'12 5° \$\tilde{\$7}57'24	0.67340 AU -0°03'08 0°03'07	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde	3572 Sep 03 16:49 3572 Sep 08 12:10 3572 Sep 12 13:03 3572 Sep 12 14:32 3572 Sep 25 05:19 3572 Sep 30 17:30 3572 Oct 18 03:51 3572 Oct 30 20:50	12° ነ 34'08 22° ነ 11'18 29° ነ 53'09 0° <u>ឆ</u> 21° <u>ឆ</u> 37'55 0° ነ ቤ 21° ነ 13'42'54 28° ነ 13'3'13	1°44'34 1.35943 AU
retrograde evening set min. Earth dist. inferior conj minimum elong transit middle transit begin transit end asc. node	3571 Nov 17 13:19 3571 Nov 23 07:34 3571 Nov 27 19:10 3571 Nov 28 20:44 3571 Nov 28 20:48 3571 Nov 28 20:48 3571 Nov 28 18:05 3571 Nov 28 23:32 3571 Nov 29 00:24	14° \$\tilde{\$755'00}\$ 12° \$\tilde{\$7}30'33\$ 7° \$\tilde{\$729'59}\$ 6° \$\tilde{\$706'18}\$ 6° \$\tilde{\$706'18}\$ 6° \$\tilde{\$715'12}\$ 5° \$\tilde{\$757'24}\$ 5° \$\tilde{\$754'35}\$	0.67340 AU -0°03'08 0°03'07	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set	3572 Sep 03 16:49 3572 Sep 08 12:10 3572 Sep 12 13:03 3572 Sep 12 14:32 3572 Sep 25 05:19 3572 Sep 30 17:30 3572 Oct 18 03:51 3572 Oct 30 20:50 3572 Nov 06 04:41	12° m 34'08 22° m 11'18 29° m 53'09 0° Ω 21° Ω 37'55 0° M 21° M 42'54 28° M 53'13 26° M 17'15	1°44'34 1.35943 AU 26°15'33
retrograde evening set min. Earth dist. inferior conj minimum elong transit middle transit begin transit end	3571 Nov 17 13:19 3571 Nov 23 07:34 3571 Nov 27 19:10 3571 Nov 28 20:44 3571 Nov 28 20:48 3571 Nov 28 20:48 3571 Nov 28 18:05 3571 Nov 28 23:32 3571 Nov 29 00:24 3571 Dec 04 10:16	14° \$\times^755'00 12° \$\times^330'33 7° \$\times^229'59 6° \$\times^06'18 6° \$\times^06'18 6° \$\times^15'12 5° \$\times^55'24 5° \$\times^554'35 0° \$\times^08'28	0.67340 AU -0°03'08 0°03'07	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist.	3572 Sep 03 16:49 3572 Sep 08 12:10 3572 Sep 12 13:03 3572 Sep 12 14:32 3572 Sep 25 05:19 3572 Sep 30 17:30 3572 Oct 18 03:51 3572 Oct 30 20:50 3572 Nov 06 04:41 3572 Nov 10 09:12	12° m 34'08 22° m 11'18 29° m 53'09 0° £ 21° £37'55 0° M 21° M.42'54 28° M.53'13 26° M.17'15 21° M.52'05	1°44'34 1.35943 AU 26°15'33 0.66509 AU
retrograde evening set min. Earth dist. inferior conj minimum elong transit middle transit begin transit end asc. node morning rise	3571 Nov 17 13:19 3571 Nov 23 07:34 3571 Nov 27 19:10 3571 Nov 28 20:44 3571 Nov 28 20:48 3571 Nov 28 20:48 3571 Nov 28 18:05 3571 Nov 28 23:32 3571 Nov 29 00:24 3571 Dec 04 10:16 3571 Dec 04 15:28	14° \$\times^755'00 12° \$\times^330'33 7° \$\times^229'59 6° \$\times^306'18 6° \$\times^306'18 6° \$\times^15'12 5° \$\times^55'24 5° \$\times^54'35 0° \$\times^308'28 30° RML	0.67340 AU -0°03'08 0°03'07	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj	3572 Sep 03 16:49 3572 Sep 08 12:10 3572 Sep 12 13:03 3572 Sep 12 14:32 3572 Sep 25 05:19 3572 Sep 30 17:30 3572 Oct 18 03:51 3572 Oct 30 20:50 3572 Nov 06 04:41 3572 Nov 10 09:12 3572 Nov 11 21:56	12° m 34'08 22° m 11'18 29° m 53'09 0°	1°44'34 1.35943 AU 26°15'33 0.66509 AU -1°01'07
retrograde evening set min. Earth dist. inferior conj minimum elong transit middle transit begin transit end asc. node	3571 Nov 17 13:19 3571 Nov 23 07:34 3571 Nov 27 19:10 3571 Nov 28 20:44 3571 Nov 28 20:48 3571 Nov 28 20:48 3571 Nov 28 18:05 3571 Nov 28 23:32 3571 Nov 29 00:24 3571 Dec 04 10:16 3571 Dec 04 15:28 3571 Dec 07 22:08	14° \$\times^755'00 12° \$\times^330'33 7° \$\times^229'59 6° \$\times^306'18 6° \$\times^306'18 6° \$\times^155'12 5° \$\times^55'24 5° \$\times^54'35 0° \$\times^308'28 30° RML 28° \$\times^58'03	0.67340 AU -0°03'08 0°03'07	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong	3572 Sep 03 16:49 3572 Sep 08 12:10 3572 Sep 12 13:03 3572 Sep 12 14:32 3572 Sep 25 05:19 3572 Sep 30 17:30 3572 Oct 18 03:51 3572 Oct 30 20:50 3572 Nov 06 04:41 3572 Nov 10 09:12 3572 Nov 11 21:56 3572 Nov 11 23:35	12° m 34'08 22° m 11'18 29° m 53'09 0° <u>a</u> 21° <u>a</u> 37'55 0° m 21° m.42'54 28° m.53'13 26° m.17'15 21° m.52'05 19° m.59'09 19° m.54'05	1°44'34 1.35943 AU 26°15'33 0.66509 AU
retrograde evening set min. Earth dist. inferior conj minimum elong transit middle transit begin transit end asc. node morning rise direct	3571 Nov 17 13:19 3571 Nov 23 07:34 3571 Nov 27 19:10 3571 Nov 28 20:44 3571 Nov 28 20:48 3571 Nov 28 20:48 3571 Nov 28 18:05 3571 Nov 28 23:32 3571 Nov 29 00:24 3571 Dec 04 10:16 3571 Dec 04 15:28 3571 Dec 07 22:08 3571 Dec 11 09:06	14° \$\times^755'00 12° \$\times^330'33 7° \$\times^229'59 6° \$\times^306'18 6° \$\times^306'18 6° \$\times^151'12 5° \$\times^557'24 5° \$\times^554'35 0° \$\times^308'28 30° RM 28° \$M.58'03 0° \$\times^3	0.67340 AU -0°03'08 0°03'07 0°03'07	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node	3572 Sep 03 16:49 3572 Sep 08 12:10 3572 Sep 12 13:03 3572 Sep 12 14:32 3572 Sep 25 05:19 3572 Sep 30 17:30 3572 Oct 18 03:51 3572 Oct 30 20:50 3572 Nov 06 04:41 3572 Nov 10 09:12 3572 Nov 11 21:56 3572 Nov 11 23:35 3572 Nov 14 21:26	12° m 34'08 22° m 11'18 29° m 53'09 0°	1°44'34 1.35943 AU 26°15'33 0.66509 AU -1°01'07
retrograde evening set min. Earth dist. inferior conj minimum elong transit middle transit begin transit end asc. node morning rise direct morning max el	3571 Nov 17 13:19 3571 Nov 23 07:34 3571 Nov 27 19:10 3571 Nov 28 20:44 3571 Nov 28 20:48 3571 Nov 28 20:48 3571 Nov 28 18:05 3571 Nov 28 23:32 3571 Nov 29 00:24 3571 Dec 04 10:16 3571 Dec 04 15:28 3571 Dec 07 22:08 3571 Dec 11 09:06 3571 Dec 15 04:51	14° \$\times^755'00 12° \$\times^330'33 7° \$\times^229'59 6° \$\times^306'18 6° \$\times^306'18 6° \$\times^15'12 5° \$\times^55'24 5° \$\times^55'24 5° \$\times^56'35 0° \$\times^808'28 30° RM 28° \$\times^803 0° \$\times^8 3° \$\times^904'13	0.67340 AU -0°03'08 0°03'07 0°03'07	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node morning rise	3572 Sep 03 16:49 3572 Sep 08 12:10 3572 Sep 12 13:03 3572 Sep 12 14:32 3572 Sep 25 05:19 3572 Sep 30 17:30 3572 Oct 18 03:51 3572 Oct 30 20:50 3572 Nov 06 04:41 3572 Nov 10 09:12 3572 Nov 11 21:56 3572 Nov 11 23:35 3572 Nov 14 21:26 3572 Nov 17 19:00	12° m 34'08 22° m 11'18 29° m 53'09 0°	1°44'34 1.35943 AU 26°15'33 0.66509 AU -1°01'07
retrograde evening set min. Earth dist. inferior conj minimum elong transit middle transit begin transit end asc. node morning rise direct	3571 Nov 17 13:19 3571 Nov 23 07:34 3571 Nov 27 19:10 3571 Nov 28 20:44 3571 Nov 28 20:48 3571 Nov 28 20:48 3571 Nov 28 18:05 3571 Nov 28 23:32 3571 Nov 29 00:24 3571 Dec 04 10:16 3571 Dec 04 15:28 3571 Dec 07 22:08 3571 Dec 11 09:06 3571 Dec 15 04:51 3571 Dec 28 08:16	14° \$\times^755'00 12° \$\times^30'33 7° \$\times^229'59 6° \$\times^306'18 6° \$\times^306'18 6° \$\times^15'12 5° \$\times^57'24 5° \$\times^54'35 0° \$\times^308'28 30° RML 28° \$\times^803 0° \$\times^304'13 20° \$\times^30'10	0.67340 AU -0°03'08 0°03'07 0°03'07	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node morning rise direct	3572 Sep 03 16:49 3572 Sep 08 12:10 3572 Sep 12 13:03 3572 Sep 12 14:32 3572 Sep 25 05:19 3572 Sep 30 17:30 3572 Oct 18 03:51 3572 Oct 30 20:50 3572 Nov 06 04:41 3572 Nov 10 09:12 3572 Nov 11 21:56 3572 Nov 11 23:35 3572 Nov 14 21:26 3572 Nov 17 19:00 3572 Nov 20 20:33	12° m 34'08 22° m 11'18 29° m 53'09 0°	1°44'34 1.35943 AU 26°15'33 0.66509 AU -1°01'07 1°00'26
retrograde evening set min. Earth dist. inferior conj minimum elong transit middle transit begin transit end asc. node morning rise direct morning max el greatest brilliancy	3571 Nov 17 13:19 3571 Nov 23 07:34 3571 Nov 27 19:10 3571 Nov 28 20:44 3571 Nov 28 20:48 3571 Nov 28 20:48 3571 Nov 28 18:05 3571 Nov 28 23:32 3571 Nov 29 00:24 3571 Dec 04 10:16 3571 Dec 04 15:28 3571 Dec 07 22:08 3571 Dec 11 09:06 3571 Dec 15 04:51 3571 Dec 28 08:16 3572 Jan 03 14:54	14° ₹55'00 12° ₹30'33 7° ₹29'59 6° ₹06'18 6° ₹06'18 6° ₹15'12 5° ₹57'24 5° ₹54'35 0° ₹08'28 30° RIL 28° IL 58'03 0° ₹ 3° ₹04'13 20° ₹30'10 0° ₹	0.67340 AU -0°03'08 0°03'07 0°03'07	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node morning rise	3572 Sep 03 16:49 3572 Sep 08 12:10 3572 Sep 12 13:03 3572 Sep 12 14:32 3572 Sep 25 05:19 3572 Sep 30 17:30 3572 Oct 18 03:51 3572 Oct 30 20:50 3572 Nov 06 04:41 3572 Nov 10 09:12 3572 Nov 11 21:56 3572 Nov 11 23:35 3572 Nov 14 21:26 3572 Nov 17 19:00 3572 Nov 20 20:33 3572 Nov 27 14:26	12° m 34'08 22° m 11'18 29° m 53'09 0°	1°44'34 1.35943 AU 26°15'33 0.66509 AU -1°01'07 1°00'26
retrograde evening set min. Earth dist. inferior conj minimum elong transit middle transit begin transit end asc. node morning rise direct morning max el greatest brilliancy desc. node	3571 Nov 17 13:19 3571 Nov 23 07:34 3571 Nov 27 19:10 3571 Nov 28 20:44 3571 Nov 28 20:48 3571 Nov 28 20:48 3571 Nov 28 18:05 3571 Nov 28 23:32 3571 Nov 29 00:24 3571 Dec 04 10:16 3571 Dec 04 15:28 3571 Dec 07 22:08 3571 Dec 11 09:06 3571 Dec 15 04:51 3571 Dec 28 08:16 3572 Jan 03 14:54 3572 Jan 05 07:31	14° \$\times^3 55'00 12° \$\times^3 30'33 7° \$\times^2 29'59 6° \$\times^3 06'18 6° \$\times^3 06'18 6° \$\times^3 15'12 5° \$\times^5 57'24 5° \$\times^5 54'35 0° \$\times^3 08'28 30° \$\times^3 08'10 20° \$\times^3 30'10 0° \$\times^5 235'40	0.67340 AU -0°03'08 0°03'07 0°03'07	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node morning rise direct morning max el	3572 Sep 03 16:49 3572 Sep 08 12:10 3572 Sep 12 13:03 3572 Sep 12 14:32 3572 Sep 25 05:19 3572 Sep 30 17:30 3572 Oct 18 03:51 3572 Oct 30 20:50 3572 Nov 06 04:41 3572 Nov 10 09:12 3572 Nov 11 21:56 3572 Nov 11 23:35 3572 Nov 14 21:26 3572 Nov 17 19:00 3572 Nov 20 20:33 3572 Nov 27 14:26 3572 Dec 07 10:00	12° m 34'08 22° m 11'18 29° m 53'09 0°	1°44'34 1.35943 AU 26°15'33 0.66509 AU -1°01'07 1°00'26
retrograde evening set min. Earth dist. inferior conj minimum elong transit middle transit begin transit end asc. node morning rise direct morning max el greatest brilliancy desc. node morning set	3571 Nov 17 13:19 3571 Nov 23 07:34 3571 Nov 27 19:10 3571 Nov 28 20:44 3571 Nov 28 20:48 3571 Nov 28 20:48 3571 Nov 28 18:05 3571 Nov 28 23:32 3571 Nov 29 00:24 3571 Dec 04 10:16 3571 Dec 04 15:28 3571 Dec 07 22:08 3571 Dec 11 09:06 3571 Dec 15 04:51 3571 Dec 28 08:16 3572 Jan 03 14:54 3572 Jan 05 07:31 3572 Jan 09 03:44	14° ₹55'00 12° ₹30'33 7° ₹29'59 6° ₹06'18 6° ₹06'18 6° ₹15'12 5° ₹57'24 5° ₹54'35 0° ₹08'28 30° RM 28° M.58'03 0° ₹ 3° ₹04'13 20° ₹30'10 0° ₹ 2° ₹35'40 8° ₹30'49	0.67340 AU -0°03'08 0°03'07 0°03'07 19°34'45 -0.7m	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node morning rise direct morning max el	3572 Sep 03 16:49 3572 Sep 08 12:10 3572 Sep 12 13:03 3572 Sep 12 14:32 3572 Sep 25 05:19 3572 Sep 30 17:30 3572 Oct 18 03:51 3572 Oct 30 20:50 3572 Nov 06 04:41 3572 Nov 10 09:12 3572 Nov 11 21:56 3572 Nov 11 23:35 3572 Nov 14 21:26 3572 Nov 17 19:00 3572 Nov 20 20:33 3572 Nov 27 14:26 3572 Dec 07 10:00 3572 Dec 18 18:51	12° m 34'08 22° m 11'18 29° m 53'09 0° a 21° a 37'55 0° m 21° m 42'54 28° m 53'13 26° m 17'15 21° m 52'05 19° m 59'09 19° m 54'05 16° m 32'43 14° m 10'35 13° m 17'09 17° m 00'10 0° 🗷 17° 🗷 45'36	1°44'34 1.35943 AU 26°15'33 0.66509 AU -1°01'07 1°00'26
retrograde evening set min. Earth dist. inferior conj minimum elong transit middle transit begin transit end asc. node morning rise direct morning max el greatest brilliancy desc. node	3571 Nov 17 13:19 3571 Nov 23 07:34 3571 Nov 27 19:10 3571 Nov 28 20:44 3571 Nov 28 20:48 3571 Nov 28 20:48 3571 Nov 28 18:05 3571 Nov 28 23:32 3571 Nov 29 00:24 3571 Dec 04 10:16 3571 Dec 04 15:28 3571 Dec 07 22:08 3571 Dec 11 09:06 3571 Dec 15 04:51 3571 Dec 28 08:16 3572 Jan 03 14:54 3572 Jan 09 03:44 3572 Jan 09 03:44 3572 Jan 21 15:47	14° \$\times^3 55'00 12° \$\times^3 30'33 7° \$\times^2 29'59 6° \$\times^3 06'18 6° \$\times^3 06'18 6° \$\times^5 15'12 5° \$\times^5 57'24 5° \$\times^5 54'35 0° \$\times^3 08'28 30° RM 28° \$M_58'03 0° \$\times^3 30'10 0° \$\times^2 335'40 8° \$\times^3 30'49 28° \$\times^3 03'06	0.67340 AU -0°03'08 0°03'07 0°03'07	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node morning rise direct morning max el	3572 Sep 03 16:49 3572 Sep 08 12:10 3572 Sep 12 13:03 3572 Sep 12 14:32 3572 Sep 25 05:19 3572 Sep 30 17:30 3572 Oct 18 03:51 3572 Oct 30 20:50 3572 Nov 06 04:41 3572 Nov 10 09:12 3572 Nov 11 21:56 3572 Nov 11 23:35 3572 Nov 14 21:26 3572 Nov 17 19:00 3572 Nov 20 20:33 3572 Nov 27 14:26 3572 Dec 07 10:00 3572 Dec 18 18:51 3572 Dec 22 04:34	12° m 34'08 22° m 11'18 29° m 53'09 0° a 21° a 37'55 0° m 21° m 42'54 28° m 53'13 26° m 17'15 21° m 52'05 19° m 59'09 19° m 54'05 16° m 32'43 14° m 10'35 13° m 17'09 17° m 00'10 0° 7 17° 745'36 23° 707'49	1°44'34 1.35943 AU 26°15'33 0.66509 AU -1°01'07 1°00'26
retrograde evening set min. Earth dist. inferior conj minimum elong transit middle transit begin transit end asc. node morning rise direct morning max el greatest brilliancy desc. node morning set	3571 Nov 17 13:19 3571 Nov 23 07:34 3571 Nov 27 19:10 3571 Nov 28 20:44 3571 Nov 28 20:48 3571 Nov 28 20:48 3571 Nov 28 18:05 3571 Nov 28 23:32 3571 Nov 29 00:24 3571 Dec 04 10:16 3571 Dec 04 15:28 3571 Dec 07 22:08 3571 Dec 11 09:06 3571 Dec 15 04:51 3571 Dec 28 08:16 3572 Jan 03 14:54 3572 Jan 05 07:31 3572 Jan 09 03:44	14° ₹55'00 12° ₹30'33 7° ₹29'59 6° ₹06'18 6° ₹06'18 6° ₹15'12 5° ₹57'24 5° ₹54'35 0° ₹08'28 30° RM 28° M.58'03 0° ₹ 3° ₹04'13 20° ₹30'10 0° ₹ 2° ₹35'40 8° ₹30'49	0.67340 AU -0°03'08 0°03'07 0°03'07 19°34'45 -0.7m	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node morning rise direct morning max el morning set desc. node	3572 Sep 03 16:49 3572 Sep 08 12:10 3572 Sep 12 13:03 3572 Sep 12 14:32 3572 Sep 25 05:19 3572 Sep 30 17:30 3572 Oct 18 03:51 3572 Oct 30 20:50 3572 Nov 06 04:41 3572 Nov 10 09:12 3572 Nov 11 21:56 3572 Nov 11 23:35 3572 Nov 14 21:26 3572 Nov 17 19:00 3572 Nov 20 20:33 3572 Nov 27 14:26 3572 Dec 07 10:00 3572 Dec 18 18:51 3572 Dec 26 13:21	12° m 34'08 22° m 11'18 29° m 53'09 0° a 21° a 37'55 0° m 21° m 42'54 28° m 53'13 26° m 17'15 21° m 52'05 19° m 59'09 19° m 54'05 16° m 32'43 14° m 10'35 13° m 17'09 17° m 00'10 0° 🗷 17° 🗷 45'36 23° 🗷 07'49 0° 🛪	1°44'34 1.35943 AU 26°15'33 0.66509 AU -1°01'07 1°00'26
retrograde evening set min. Earth dist. inferior conj minimum elong transit middle transit begin transit end asc. node morning rise direct morning max el greatest brilliancy desc. node morning set max. Earth dist.	3571 Nov 17 13:19 3571 Nov 23 07:34 3571 Nov 27 19:10 3571 Nov 28 20:44 3571 Nov 28 20:48 3571 Nov 28 20:48 3571 Nov 28 20:48 3571 Nov 28 23:32 3571 Nov 29 00:24 3571 Dec 04 10:16 3571 Dec 04 15:28 3571 Dec 07 22:08 3571 Dec 11 09:06 3571 Dec 15 04:51 3571 Dec 28 08:16 3572 Jan 03 14:54 3572 Jan 09 03:44 3572 Jan 21 15:47 3572 Jan 22 21:15	14° ₹55'00 12° ₹30'33 7° ₹29'59 6° ₹06'18 6° ₹06'18 6° ₹15'12 5° ₹57'24 5° ₹54'35 0° ₹08'28 30° RM 28° M.58'03 0° ₹ 3° ₹04'13 20° ₹30'10 0° ₹ 2° ₹35'40 8° ₹30'49 28° ₹03'06 0° ≈	0.67340 AU -0°03'08 0°03'07 0°03'07 19°34'45 -0.7m	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node morning rise direct morning max el	3572 Sep 03 16:49 3572 Sep 08 12:10 3572 Sep 12 13:03 3572 Sep 12 14:32 3572 Sep 25 05:19 3572 Sep 30 17:30 3572 Oct 18 03:51 3572 Oct 30 20:50 3572 Nov 06 04:41 3572 Nov 10 09:12 3572 Nov 11 21:56 3572 Nov 11 23:35 3572 Nov 14 21:26 3572 Nov 17 19:00 3572 Nov 20 20:33 3572 Nov 27 14:26 3572 Dec 07 10:00 3572 Dec 18 18:51 3572 Dec 22 04:34	12° m 34'08 22° m 11'18 29° m 53'09 0° a 21° a 37'55 0° m 21° m 42'54 28° m 53'13 26° m 17'15 21° m 52'05 19° m 59'09 19° m 54'05 16° m 32'43 14° m 10'35 13° m 17'09 17° m 00'10 0° 🗷 17° 🗷 45'36 23° 🗷 07'49 0° 🛪	1°44'34 1.35943 AU 26°15'33 0.66509 AU -1°01'07 1°00'26
retrograde evening set min. Earth dist. inferior conj minimum elong transit middle transit begin transit end asc. node morning rise direct morning max el greatest brilliancy desc. node morning set max. Earth dist.	3571 Nov 17 13:19 3571 Nov 23 07:34 3571 Nov 27 19:10 3571 Nov 28 20:44 3571 Nov 28 20:48 3571 Nov 28 20:48 3571 Nov 28 20:48 3571 Nov 28 23:32 3571 Nov 29 00:24 3571 Dec 04 10:16 3571 Dec 04 10:16 3571 Dec 07 22:08 3571 Dec 11 09:06 3571 Dec 15 04:51 3571 Dec 28 08:16 3572 Jan 03 14:54 3572 Jan 09 03:44 3572 Jan 21 15:47 3572 Jan 22 21:15	14° ₹55'00 12° ₹30'33 7° ₹29'59 6° ₹06'18 6° ₹06'18 6° ₹15'12 5° ₹57'24 5° ₹54'35 0° ₹08'28 30° RM 28° M.58'03 0° ₹ 3° ₹04'13 20° ₹30'10 0° ₹ 2° ₹35'40 8° ₹30'49 28° ₹30'49 28° ₹30'06 0° ≈	0.67340 AU -0°03'08 0°03'07 0°03'07 19°34'45 -0.7m	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node morning rise direct morning max el morning set desc. node max. Earth dist.	3572 Sep 03 16:49 3572 Sep 08 12:10 3572 Sep 12 13:03 3572 Sep 12 14:32 3572 Sep 25 05:19 3572 Sep 30 17:30 3572 Oct 18 03:51 3572 Oct 30 20:50 3572 Nov 06 04:41 3572 Nov 10 09:12 3572 Nov 11 21:56 3572 Nov 11 23:35 3572 Nov 14 21:26 3572 Nov 17 19:00 3572 Nov 20 20:33 3572 Nov 27 14:26 3572 Dec 07 10:00 3572 Dec 18 18:51 3572 Dec 22 04:34 3572 Dec 26 13:21 3573 Jan 03 09:02	12° m 34'08 22° m 11'18 29° m 53'09 0° P 21° P 37'55 0° M 21° M 42'54 28° M 53'13 26° M 17'15 21° M 52'05 19° M 54'05 16° M 32'43 14° M 10'35 13° M 17'09 17° M 00'10 0° 7 17° 7 45'36 23° 7 07'49 0° 7 12° 7 16'30	1°44'34 1.35943 AU 26°15'33 0.66509 AU -1°01'07 1°00'26 18°43'51
retrograde evening set min. Earth dist. inferior conj minimum elong transit middle transit begin transit end asc. node morning rise direct morning max el greatest brilliancy desc. node morning set max. Earth dist.	3571 Nov 17 13:19 3571 Nov 23 07:34 3571 Nov 27 19:10 3571 Nov 28 20:44 3571 Nov 28 20:48 3571 Nov 28 20:48 3571 Nov 28 20:48 3571 Nov 28 23:32 3571 Nov 29 00:24 3571 Dec 04 10:16 3571 Dec 04 10:16 3571 Dec 07 22:08 3571 Dec 11 09:06 3571 Dec 15 04:51 3571 Dec 28 08:16 3572 Jan 03 14:54 3572 Jan 09 03:44 3572 Jan 21 15:47 3572 Jan 22 21:15 3572 Jan 25 20:20 3572 Jan 25 13:14	14° ₹55'00 12° ₹30'33 7° ₹29'59 6° ₹06'18 6° ₹06'18 6° ₹15'12 5° ₹57'24 5° ₹54'35 0° ₹08'28 30° RM 28° M.58'03 0° ₹ 3° ₹04'13 20° ₹30'10 0° ₹ 2° ₹35'40 8° ₹30'49 28° ₹30'49 28° ₹30'49 28° ₹30'49 28° ₹30'49 28° ₹30'49 28° ₹30'49	0.67340 AU -0°03'08 0°03'07 0°03'07 19°34'45 -0.7m	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node morning rise direct morning max el morning set desc. node max. Earth dist. superior conj	3572 Sep 03 16:49 3572 Sep 08 12:10 3572 Sep 12 13:03 3572 Sep 12 14:32 3572 Sep 25 05:19 3572 Sep 30 17:30 3572 Oct 18 03:51 3572 Oct 30 20:50 3572 Nov 06 04:41 3572 Nov 10 09:12 3572 Nov 11 21:56 3572 Nov 11 23:35 3572 Nov 14 21:26 3572 Nov 17 19:00 3572 Nov 20 20:33 3572 Nov 27 14:26 3572 Dec 07 10:00 3572 Dec 18 18:51 3572 Dec 22 04:34 3572 Dec 26 13:21 3573 Jan 04 01:59	12° m 34'08 22° m 11'18 29° m 53'09 0° P 21° P 37'55 0° M 21° M 42'54 28° M 53'13 26° M 17'15 21° M 52'05 19° M 54'05 16° M 32'43 14° M 10'35 13° M 17'09 17° M 00'10 0° \$\mathrightarrow{\sigma}{3}\text{16'30}	1°44'34 1.35943 AU 26°15'33 0.66509 AU -1°01'07 1°00'26 18°43'51 1.45169 AU -1°20'35
retrograde evening set min. Earth dist. inferior conj minimum elong transit middle transit begin transit end asc. node morning rise direct morning max el greatest brilliancy desc. node morning set max. Earth dist.	3571 Nov 17 13:19 3571 Nov 23 07:34 3571 Nov 27 19:10 3571 Nov 28 20:44 3571 Nov 28 20:48 3571 Nov 28 20:48 3571 Nov 28 20:48 3571 Nov 28 23:32 3571 Nov 29 00:24 3571 Dec 04 10:16 3571 Dec 04 10:16 3571 Dec 04 15:28 3571 Dec 07 22:08 3571 Dec 11 09:06 3571 Dec 15 04:51 3571 Dec 28 08:16 3572 Jan 03 14:54 3572 Jan 05 07:31 3572 Jan 09 03:44 3572 Jan 21 15:47 3572 Jan 22 21:15 3572 Jan 25 20:20 3572 Jan 25 13:14 3572 Feb 08 17:18	14° ₹55'00 12° ₹30'33 7° ₹29'59 6° ₹06'18 6° ₹06'18 6° ₹15'12 5° ₹57'24 5° ₹54'35 0° ₹08'28 30° RM 28° M.58'03 0° ₹ 3° ₹04'13 20° ₹30'10 0° ₹ 2° ₹35'40 8° ₹30'49 28° ₹30'49 28° ₹30'49 28° ₹30'57 4° ≈15'26 27° ≈34'07	0.67340 AU -0°03'08 0°03'07 0°03'07 19°34'45 -0.7m	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node morning rise direct morning max el morning set desc. node max. Earth dist.	3572 Sep 03 16:49 3572 Sep 08 12:10 3572 Sep 12 13:03 3572 Sep 12 14:32 3572 Sep 25 05:19 3572 Sep 30 17:30 3572 Oct 18 03:51 3572 Oct 30 20:50 3572 Nov 06 04:41 3572 Nov 10 09:12 3572 Nov 11 21:56 3572 Nov 11 23:35 3572 Nov 14 21:26 3572 Nov 17 19:00 3572 Nov 20 20:33 3572 Nov 27 14:26 3572 Dec 07 10:00 3572 Dec 18 18:51 3572 Dec 22 04:34 3572 Dec 26 13:21 3573 Jan 04 01:59 3573 Jan 04 01:59 3573 Jan 04 01:59	12° m 34'08 22° m 11'18 29° m 53'09 0° ユ 21° ユ37'55 0° M 21° M 42'54 28° M 53'13 26° M 17'15 21° M 52'05 19° M 54'05 16° M 32'43 14° M 10'35 13° M 17'09 17° M 00'10 0° ズ 17° ズ 45'36 23° ズ 07'49 0° 云 12° 云 16'30	1°44'34 1.35943 AU 26°15'33 0.66509 AU -1°01'07 1°00'26 18°43'51 1.45169 AU -1°20'35
retrograde evening set min. Earth dist. inferior conj minimum elong transit middle transit begin transit end asc. node morning rise direct morning max el greatest brilliancy desc. node morning set max. Earth dist.	3571 Nov 17 13:19 3571 Nov 23 07:34 3571 Nov 27 19:10 3571 Nov 28 20:44 3571 Nov 28 20:48 3571 Nov 28 20:48 3571 Nov 28 20:48 3571 Nov 28 23:32 3571 Nov 29 00:24 3571 Dec 04 10:16 3571 Dec 04 10:16 3571 Dec 04 15:28 3571 Dec 07 22:08 3571 Dec 11 09:06 3571 Dec 15 04:51 3571 Dec 28 08:16 3572 Jan 03 14:54 3572 Jan 05 07:31 3572 Jan 09 03:44 3572 Jan 22 21:15 3572 Jan 25 20:20 3572 Jan 25 13:14 3572 Feb 08 17:18 3572 Feb 10 03:57	14° ₹55'00 12° ₹30'33 7° ₹29'59 6° ₹06'18 6° ₹06'18 6° ₹15'12 5° ₹57'24 5° ₹54'35 0° ₹08'28 30° RM 28° M.58'03 0° ₹ 3° ₹04'13 20° ₹30'10 0° ₹ 2° ₹35'40 8° ₹30'49 28° ₹30'49	0.67340 AU -0°03'08 0°03'07 0°03'07 19°34'45 -0.7m	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node morning rise direct morning max el morning set desc. node max. Earth dist. superior conj minimum elong	3572 Sep 03 16:49 3572 Sep 08 12:10 3572 Sep 12 13:03 3572 Sep 12 14:32 3572 Sep 25 05:19 3572 Sep 30 17:30 3572 Oct 18 03:51 3572 Oct 30 20:50 3572 Nov 06 04:41 3572 Nov 10 09:12 3572 Nov 11 21:56 3572 Nov 11 23:35 3572 Nov 14 21:26 3572 Nov 17 19:00 3572 Nov 20 20:33 3572 Nov 27 14:26 3572 Dec 07 10:00 3572 Dec 18 18:51 3572 Dec 22 04:34 3572 Dec 26 13:21 3573 Jan 04 01:59 3573 Jan 04 01:59 3573 Jan 04 11:26	12° m 34'08 22° m 11'18 29° m 53'09 0° ユ 21° ユ37'55 0° m 21° M 42'54 28° M 53'13 26° M 17'15 21° M 52'05 19° M 59'09 19° M 54'05 16° M 32'43 14° M 10'35 13° M 17'09 17° M 00'10 0° ズ 17° ズ 45'36 23° ズ 07'49 0° 云 12° 云 16'30 13° 云 23'02 12° 云 47'46 0° ※	1°44'34 1.35943 AU 26°15'33 0.66509 AU -1°01'07 1°00'26 18°43'51 1.45169 AU -1°20'35
retrograde evening set min. Earth dist. inferior conj minimum elong transit middle transit begin transit end asc. node morning rise direct morning max el greatest brilliancy desc. node morning set max. Earth dist. superior conj minimum elong evening rise asc. node	3571 Nov 17 13:19 3571 Nov 23 07:34 3571 Nov 27 19:10 3571 Nov 28 20:44 3571 Nov 28 20:48 3571 Nov 28 20:48 3571 Nov 28 20:48 3571 Nov 28 23:32 3571 Nov 29 00:24 3571 Dec 04 10:16 3571 Dec 04 15:28 3571 Dec 07 22:08 3571 Dec 11 09:06 3571 Dec 15 04:51 3571 Dec 28 08:16 3572 Jan 03 14:54 3572 Jan 05 07:31 3572 Jan 09 03:44 3572 Jan 22 21:15 3572 Jan 25 13:14 3572 Feb 08 17:18 3572 Feb 10 03:57 3572 Feb 24 23:44	14° ₹55'00 12° ₹30'33 7° ₹29'59 6° ₹06'18 6° ₹06'18 6° ₹15'12 5° ₹57'24 5° ₹54'35 0° ₹08'28 30° RIL 28° IL58'03 0° ₹ 3° ₹04'13 20° ₹30'10 0° ₹ 2° ₹335'40 8° ₹30'49 28° ₹03'06 0° ≈ 4° ≈43'57 4° ≈15'26 27° ≈34'07 0° ₩ 23° ¥22'23	0.67340 AU -0°03'08 0°03'07 0°03'07 19°34'45 -0.7m 1.44477 AU -1°53'16 1°52'47	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node morning rise direct morning max el morning set desc. node max. Earth dist. superior conj minimum elong	3572 Sep 03 16:49 3572 Sep 08 12:10 3572 Sep 12 13:03 3572 Sep 12 14:32 3572 Sep 25 05:19 3572 Sep 30 17:30 3572 Sep 30 17:30 3572 Oct 18 03:51 3572 Oct 30 20:50 3572 Nov 06 04:41 3572 Nov 10 09:12 3572 Nov 11 21:56 3572 Nov 11 21:56 3572 Nov 14 21:26 3572 Nov 14 21:26 3572 Nov 20 20:33 3572 Nov 27 14:26 3572 Dec 07 10:00 3572 Dec 18 18:51 3572 Dec 22 04:34 3572 Dec 26 13:21 3573 Jan 04 01:59 3573 Jan 04 01:59 3573 Jan 04 11:20 3573 Jan 14 14:25 3573 Jan 19 14:48	12° m 34'08 22° m 11'18 29° m 53'09 0° ユ 21° ユ37'55 0° m 21° M 42'54 28° M 53'13 26° M 17'15 21° M 52'05 19° M 59'09 19° M 54'05 16° M 32'43 14° M 10'35 13° M 17'09 17° M 00'10 0° ズ 17° ズ 45'36 23° ズ 07'49 0° 云 12° 云 16'30 13° 云 23'02 12° 云 47'46 0° ≈ 8° ≈ 01'11	1°44'34 1.35943 AU 26°15'33 0.66509 AU -1°01'07 1°00'26 18°43'51 1.45169 AU -1°20'35 1°19'37
retrograde evening set min. Earth dist. inferior conj minimum elong transit middle transit begin transit end asc. node morning rise direct morning max el greatest brilliancy desc. node morning set max. Earth dist. superior conj minimum elong evening rise asc. node evening max el	3571 Nov 17 13:19 3571 Nov 23 07:34 3571 Nov 27 19:10 3571 Nov 28 20:44 3571 Nov 28 20:48 3571 Nov 28 20:48 3571 Nov 28 20:48 3571 Nov 28 23:32 3571 Nov 29 00:24 3571 Dec 04 10:16 3571 Dec 04 15:28 3571 Dec 07 22:08 3571 Dec 11 09:06 3571 Dec 15 04:51 3571 Dec 28 08:16 3572 Jan 03 14:54 3572 Jan 05 07:31 3572 Jan 09 03:44 3572 Jan 21 15:47 3572 Jan 22 21:15 3572 Jan 25 13:14 3572 Feb 08 17:18 3572 Feb 10 03:57 3572 Feb 24 23:44 3572 Feb 27 11:30	14° ₹55'00 12° ₹30'33 7° ₹29'59 6° ₹06'33 6° ₹06'18 6° ₹06'18 6° ₹15'12 5° ₹57'24 5° ₹54'35 0° ₹08'28 30° ₹ 11.28° \$1.30'00 ₹ 2° ₹35'40 8° ₹30'49 28° ₹30'49	0.67340 AU -0°03'08 0°03'07 0°03'07 19°34'45 -0.7m	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node morning rise direct morning max el morning set desc. node max. Earth dist. superior conj minimum elong	3572 Sep 03 16:49 3572 Sep 08 12:10 3572 Sep 12 13:03 3572 Sep 12 14:32 3572 Sep 25 05:19 3572 Sep 30 17:30 3572 Sep 30 17:30 3572 Oct 18 03:51 3572 Oct 30 20:50 3572 Nov 06 04:41 3572 Nov 10 09:12 3572 Nov 11 21:56 3572 Nov 11 23:35 3572 Nov 14 21:26 3572 Nov 17 19:00 3572 Nov 20 20:33 3572 Nov 27 14:26 3572 Dec 07 10:00 3572 Dec 18 18:51 3572 Dec 22 04:34 3572 Dec 26 13:21 3573 Jan 04 01:59 3573 Jan 04 01:59 3573 Jan 04 11:25 3573 Jan 19 14:48 3573 Jan 26 21:32	12° m 34'08 22° m 11'18 29° m 53'09 0° a 21° a 37'55 0° m 21° m 42'54 28° m 53'13 26° m 17'15 21° m 52'05 19° m 59'09 19° m 54'05 16° m 32'43 14° m 10'35 13° m 17'09 17° m 00'10 0° x 17° x 45'36 23° x 07'49 0° 5 12° 5 16'30 13° 5 23'02 12° 5 47'46 0° ≈ 8° ≈ 01'11 19° ≈ 42'45	1°44'34 1.35943 AU 26°15'33 0.66509 AU -1°01'07 1°00'26 18°43'51 1.45169 AU -1°20'35
retrograde evening set min. Earth dist. inferior conj minimum elong transit middle transit begin transit end asc. node morning rise direct morning max el greatest brilliancy desc. node morning set max. Earth dist. superior conj minimum elong evening rise asc. node evening max el retrograde	3571 Nov 17 13:19 3571 Nov 23 07:34 3571 Nov 27 19:10 3571 Nov 28 20:44 3571 Nov 28 20:48 3571 Nov 28 20:48 3571 Nov 28 20:48 3571 Nov 28 23:32 3571 Nov 29 00:24 3571 Dec 04 10:16 3571 Dec 04 15:28 3571 Dec 07 22:08 3571 Dec 11 09:06 3571 Dec 15 04:51 3571 Dec 28 08:16 3572 Jan 03 14:54 3572 Jan 05 07:31 3572 Jan 09 03:44 3572 Jan 21 15:47 3572 Jan 22 21:15 3572 Feb 08 17:18 3572 Feb 08 17:18 3572 Feb 24 23:44 3572 Feb 27 11:30 3572 Mar 04 22:17	14° ₹55'00 12° ₹30'33 7° ₹29'59 6° ₹06'18 6° ₹06'18 6° ₹06'18 6° ₹15'12 5° ₹57'24 5° ₹54'35 0° ₹08'28 30° RM 28° M.58'03 0° ₹ 3° ₹04'13 20° ₹30'10 0° ₹ 2° ₹35'40 8° ₹30'49 28° ₹503'06 0° ≈ 4° ≈43'57 4° ≈15'26 27° ≈34'07 0° ₹ 23° ₹22'23 26° ₹12'42 29° ₹40'56	0.67340 AU -0°03'08 0°03'07 0°03'07 19°34'45 -0.7m 1.44477 AU -1°53'16 1°52'47	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node morning rise direct morning max el morning set desc. node max. Earth dist. superior conj minimum elong evening rise greatest brilliancy	3572 Sep 03 16:49 3572 Sep 08 12:10 3572 Sep 12 13:03 3572 Sep 12 14:32 3572 Sep 25 05:19 3572 Sep 30 17:30 3572 Oct 18 03:51 3572 Oct 30 20:50 3572 Nov 06 04:41 3572 Nov 10 09:12 3572 Nov 11 21:56 3572 Nov 11 23:35 3572 Nov 14 21:26 3572 Nov 17 19:00 3572 Nov 20 20:33 3572 Nov 27 14:26 3572 Dec 07 10:00 3572 Dec 18 18:51 3572 Dec 22 04:34 3572 Dec 26 13:21 3573 Jan 03 09:02 3573 Jan 04 01:59 3573 Jan 04 01:59 3573 Jan 14 14:25 3573 Jan 19 14:48 3573 Jan 26 21:32 3573 Feb 02 12:04	12° m 34'08 22° m 11'18 29° m 53'09 0° ユ 21° ユ37'55 0° m 21° M 42'54 28° M 53'13 26° M 17'15 21° M 52'05 19° M 59'09 19° M 54'05 16° M 32'43 14° M 10'35 13° M 17'09 17° M 00'10 0° ズ 17° ズ 45'36 23° ズ 07'49 0° 云 12° 云 16'30 13° 云 23'02 12° 云 47'46 0° ≈ 8° ≈ 01'11 19° ≈ 42'45 0° 米	1°44'34 1.35943 AU 26°15'33 0.66509 AU -1°01'07 1°00'26 18°43'51 1.45169 AU -1°20'35 1°19'37
retrograde evening set min. Earth dist. inferior conj minimum elong transit middle transit begin transit end asc. node morning rise direct morning max el greatest brilliancy desc. node morning set max. Earth dist. superior conj minimum elong evening rise asc. node evening max el retrograde evening set	3571 Nov 17 13:19 3571 Nov 23 07:34 3571 Nov 27 19:10 3571 Nov 28 20:44 3571 Nov 28 20:48 3571 Nov 28 20:48 3571 Nov 28 18:05 3571 Nov 28 23:32 3571 Nov 29 00:24 3571 Dec 04 10:16 3571 Dec 04 15:28 3571 Dec 07 22:08 3571 Dec 11 09:06 3571 Dec 15 04:51 3571 Dec 28 08:16 3572 Jan 03 14:54 3572 Jan 05 07:31 3572 Jan 09 03:44 3572 Jan 21 15:47 3572 Jan 22 21:15 3572 Feb 08 17:18 3572 Feb 10 03:57 3572 Feb 24 23:44 3572 Feb 27 11:30 3572 Mar 04 22:17 3572 Mar 07 21:50	14° ₹55'00 12° ₹30'33 7° ₹29'59 6° ₹06'33 6° ₹06'18 6° ₹06'18 6° ₹15'12 5° ₹57'24 5° ₹54'35 0° ₹08'28 30° RM 28° M.58'03 0° ₹ 3° ₹04'13 20° ₹30'10 0° ₹ 2° ₹35'40 8° ₹30'49 28° ₹03'06 0° ≈ 4° ≈43'57 4° ≈15'26 27° ≈34'07 0° ₹ 23° ₹22'23 26° ₹12'42 29° ₹40'56 28° ₹53'10	0.67340 AU -0°03'08 0°03'07 0°03'07 19°34'45 -0.7m 1.44477 AU -1°53'16 1°52'47	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node morning rise direct morning max el morning set desc. node max. Earth dist. superior conj minimum elong evening rise greatest brilliancy	3572 Sep 03 16:49 3572 Sep 08 12:10 3572 Sep 12 13:03 3572 Sep 12 14:32 3572 Sep 25 05:19 3572 Sep 30 17:30 3572 Oct 18 03:51 3572 Oct 30 20:50 3572 Nov 06 04:41 3572 Nov 10 09:12 3572 Nov 11 21:56 3572 Nov 11 23:35 3572 Nov 14 21:26 3572 Nov 17 19:00 3572 Nov 20 20:33 3572 Nov 27 14:26 3572 Dec 07 10:00 3572 Dec 18 18:51 3572 Dec 22 04:34 3572 Dec 26 13:21 3573 Jan 03 09:02 3573 Jan 04 01:59 3573 Jan 04 01:59 3573 Jan 14 14:25 3573 Jan 19 14:48 3573 Jan 26 21:32 3573 Feb 02 12:04 3573 Feb 09 22:33	12° m 34'08 22° m 11'18 29° m 53'09 0° a 21° a 37'55 0° m 21° m 42'54 28° m 53'13 26° m 17'15 21° m 52'05 19° m 59'09 19° m 54'05 16° m 32'43 14° m 10'35 13° m 17'09 17° m 00'10 0° x 17° x 45'36 23° x 07'49 0° t 12° t 316'30 13° t 23'02 12° t 347'46 0° t 8° t 301'11 19° t 40'24	1°44'34 1.35943 AU 26°15'33 0.66509 AU -1°01'07 1°00'26 18°43'51 1.45169 AU -1°20'35 1°19'37
retrograde evening set min. Earth dist. inferior conj minimum elong transit middle transit begin transit end asc. node morning rise direct morning max el greatest brilliancy desc. node morning set max. Earth dist. superior conj minimum elong evening rise asc. node evening max el retrograde evening set inferior conj	3571 Nov 17 13:19 3571 Nov 23 07:34 3571 Nov 27 19:10 3571 Nov 28 20:44 3571 Nov 28 20:48 3571 Nov 28 20:48 3571 Nov 28 18:05 3571 Nov 28 23:32 3571 Nov 29 00:24 3571 Dec 04 10:16 3571 Dec 04 15:28 3571 Dec 04 15:28 3571 Dec 11 09:06 3571 Dec 15 04:51 3571 Dec 28 08:16 3572 Jan 03 14:54 3572 Jan 05 07:31 3572 Jan 09 03:44 3572 Jan 22 21:15 3572 Jan 25 20:20 3572 Jan 25 13:14 3572 Feb 08 17:18 3572 Feb 10 03:57 3572 Feb 24 23:44 3572 Feb 27 11:30 3572 Mar 07 21:50 3572 Mar 07 21:50 3572 Mar 13 21:07	14° ₹55'00 12° ₹30'33 7° ₹29'59 6° ₹06'33 6° ₹06'18 6° ₹06'18 6° ₹15'12 5° ₹57'24 5° ₹54'35 0° ₹08'28 30° RM 28° M.58'03 0° ₹ 3° ₹04'13 20° ₹30'40 8° ₹30'49 28° ₹30'49 28° ₹30'49 28° ₹30'40 7° ₹20'43 8° ₹30'49 28° ₹30'49	0.67340 AU -0°03'08 0°03'07 0°03'07 19°34'45 -0.7m 1.44477 AU -1°53'16 1°52'47 18°18'40 3°38'07	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node morning rise direct morning max el morning set desc. node max. Earth dist. superior conj minimum elong evening rise greatest brilliancy evening max el asc. node	3572 Sep 03 16:49 3572 Sep 08 12:10 3572 Sep 12 13:03 3572 Sep 12 14:32 3572 Sep 25 05:19 3572 Sep 30 17:30 3572 Oct 18 03:51 3572 Oct 30 20:50 3572 Nov 06 04:41 3572 Nov 10 09:12 3572 Nov 11 21:56 3572 Nov 11 23:35 3572 Nov 14 21:26 3572 Nov 17 19:00 3572 Nov 20 20:33 3572 Nov 20 20:33 3572 Nov 27 14:26 3572 Dec 07 10:00 3572 Dec 18 18:51 3572 Dec 22 04:34 3572 Dec 26 13:21 3573 Jan 03 09:02 3573 Jan 04 01:59 3573 Jan 04 01:59 3573 Jan 04 11:25 3573 Jan 14 14:25 3573 Jan 19 14:48 3573 Jan 26 21:32 3573 Feb 02 12:04 3573 Feb 09 22:33 3573 Feb 00 20:45	12° m 34'08 22° m 11'18 29° m 53'09 0° ユ 21° ユ37'55 0° m 21° M 42'54 28° M 53'13 26° M 17'15 21° M 52'05 19° M 59'09 19° M 54'05 16° M 32'43 14° M 10'35 13° M 17'09 17° M 00'10 0° ズ 17° ズ 45'36 23° ズ 07'49 0° ℧ 12° ℧ 16'30 13° ℧ 23'02 12° ℧ 47'46 0° ※ 8° ※ 01'11 19° ※ 42'45 0° 升 9° 升 40'24 10° 升 34'09	1°44'34 1.35943 AU 26°15'33 0.66509 AU -1°01'07 1°00'26 18°43'51 1.45169 AU -1°20'35 1°19'37
retrograde evening set min. Earth dist. inferior conj minimum elong transit middle transit begin transit end asc. node morning rise direct morning max el greatest brilliancy desc. node morning set max. Earth dist. superior conj minimum elong evening rise asc. node evening max el retrograde evening set	3571 Nov 17 13:19 3571 Nov 23 07:34 3571 Nov 27 19:10 3571 Nov 28 20:44 3571 Nov 28 20:48 3571 Nov 28 20:48 3571 Nov 28 18:05 3571 Nov 28 23:32 3571 Nov 29 00:24 3571 Dec 04 10:16 3571 Dec 04 15:28 3571 Dec 07 22:08 3571 Dec 11 09:06 3571 Dec 15 04:51 3571 Dec 28 08:16 3572 Jan 03 14:54 3572 Jan 05 07:31 3572 Jan 09 03:44 3572 Jan 21 15:47 3572 Jan 22 21:15 3572 Feb 08 17:18 3572 Feb 10 03:57 3572 Feb 24 23:44 3572 Feb 27 11:30 3572 Mar 04 22:17 3572 Mar 07 21:50	14° ₹55'00 12° ₹30'33 7° ₹29'59 6° ₹06'33 6° ₹06'18 6° ₹06'18 6° ₹15'12 5° ₹57'24 5° ₹54'35 0° ₹08'28 30° RM 28° M.58'03 0° ₹ 3° ₹04'13 20° ₹30'10 0° ₹ 2° ₹35'40 8° ₹30'49 28° ₹03'06 0° ≈ 4° ≈43'57 4° ≈15'26 27° ≈34'07 0° ₹ 23° ₹22'23 26° ₹12'42 29° ₹40'56 28° ₹53'10	0.67340 AU -0°03'08 0°03'07 0°03'07 19°34'45 -0.7m 1.44477 AU -1°53'16 1°52'47	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node morning rise direct morning max el morning set desc. node max. Earth dist. superior conj minimum elong evening rise greatest brilliancy	3572 Sep 03 16:49 3572 Sep 08 12:10 3572 Sep 12 13:03 3572 Sep 12 14:32 3572 Sep 25 05:19 3572 Sep 30 17:30 3572 Oct 18 03:51 3572 Oct 30 20:50 3572 Nov 06 04:41 3572 Nov 10 09:12 3572 Nov 11 21:56 3572 Nov 11 23:35 3572 Nov 14 21:26 3572 Nov 17 19:00 3572 Nov 20 20:33 3572 Nov 27 14:26 3572 Dec 07 10:00 3572 Dec 18 18:51 3572 Dec 22 04:34 3572 Dec 26 13:21 3573 Jan 03 09:02 3573 Jan 04 01:59 3573 Jan 04 01:59 3573 Jan 14 14:25 3573 Jan 19 14:48 3573 Jan 26 21:32 3573 Feb 02 12:04 3573 Feb 09 22:33	12° m 34'08 22° m 11'18 29° m 53'09 0° a 21° a 37'55 0° m 21° m 42'54 28° m 53'13 26° m 17'15 21° m 52'05 19° m 59'09 19° m 54'05 16° m 32'43 14° m 10'35 13° m 17'09 17° m 00'10 0° x 17° x 45'36 23° x 07'49 0° t 12° t 316'30 13° t 23'02 12° t 347'46 0° t 8° t 301'11 19° t 40'24	1°44'34 1.35943 AU 26°15'33 0.66509 AU -1°01'07 1°00'26 18°43'51 1.45169 AU -1°20'35 1°19'37

inferior conj	3573 Feb 25 13:31	6° ¥ 44'34	3°31'56	retrograde	3574 Jan 31 12:49	27° ≈ 23'30	
minimum elong	3573 Feb 25 13:31 3573 Feb 25 12:12	6°) (48'40	3°31'47	evening set	3574 Feb 04 01:58	26°≈09'46	
min. Earth dist.	3573 Feb 27 08:06	4°)(33'28	0.65413 AU	inferior conj	3574 Feb 04 01:38 3574 Feb 09 13:18	20 ≈0340 20°≈13'31	3°12'30
morning rise	3573 Mar 03 02:24	0°) 32'46	0.03413 AU	minimum elong	3574 Feb 09 13:18 3574 Feb 09 11:07	20°≈20'43	3°12'05
morning risc	3573 Mar 03 02:24 3573 Mar 03 18:12	0 7(32 40 30°R≈		min. Earth dist.	3574 Feb 10 16:59	18°≈42'35	0.66645 AU
direct	3573 Mar 09 17:11	27°≈41'37		morning rise	3574 Feb 10 10:39 3574 Feb 14 20:03	14°≈00'02	0.00043 AU
direct	3573 Mar 16 09:26	0°) €		direct	3574 Feb 20 23:26	11°≈16'02	
desc. node	3573 Mar 10 09:20 3573 Mar 20 03:45	2°) 52'08		morning max el	3574 Pco 20 23:20 3574 Mar 05 06:35	11 ≈10 02 18°≈35'22	25°43'17
morning max el	3573 Mar 20 03:43 3573 Mar 22 21:13	5° ¥ 26'37	26°53'04	desc. node	3574 Mar 07 00:47	20°≈25'58	23 43 17
morning max ci	3573 Apr 10 16:08	0° Υ	20 33 04	desc. flode	3574 Mar 14 22:07	20 ≈ 23 38	
morning sat	•	29° Υ 20'27			3574 Mai 14 22:07 3574 Apr 03 17:06	0°Υ	
morning set	3573 Apr 27 16:40 3573 Apr 28 00:55	0° 8		marning sat	•	11° Υ 58'59	
Fault 1:4	-		1 24222 ATT	morning set	3574 Apr 10 12:10	11° Y 38′39 19° Y 04'19	1.35848 AU
max. Earth dist.	3573 May 02 01:23	7° 8 54'24	1.34222 AU	max. Earth dist.	3574 Apr 14 07:11	19 1 04 19	1.33848 AU
aumariar aani	2572 May 06 04:42	16° 8 23'18	0027112	aumariar aani	2574 Amr. 10, 21:55	0° 8 04'40	1905155
superior conj	3573 May 06 04:42	16° 8 33'27		superior conj	3574 Apr 19 21:55	0° 8 22'06	
minimum elong	3573 May 06 06:39	_	0-3048	minimum elong	3574 Apr 20 01:23	0°82206	1-05-19
asc. node	3573 May 09 20:05	24° 8 02'28		,	3574 Apr 19 20:59		
	3573 May 12 15:53	0°II		asc. node	3574 Apr 26 17:07	13° 8 57'36	
evening rise	3573 May 13 15:34	2° Ⅱ 03'50		evening rise	3574 Apr 27 21:51	16° 8 24'27	
	3573 May 29 15:57	0°9			3574 May 04 21:34	0°II	
evening max el	3573 Jun 02 11:07	4° © 14'43	21°22'49	evening max el	3574 May 15 18:04	15° Ⅱ 25'25	20°04'47
retrograde	3573 Jun 14 13:46	10°©11'38		retrograde	3574 May 26 04:15	20° Ⅱ 29'51	
desc. node	3573 Jun 16 03:00	10°906'04		evening set	3574 May 28 03:35	20° Ⅱ 19'44	
evening set	3573 Jun 16 22:25	9° © 58'52		desc. node	3574 Jun 03 00:01	18° Ⅱ 09'22	
inferior conj	3573 Jun 26 07:44	5° © 59'32	-2°54'11	inferior conj	3574 Jun 06 04:03	16° Ⅱ 20′13	-0°56'10
minimum elong	3573 Jun 26 00:07	6° ॐ 10′13	2°51'43	minimum elong	3574 Jun 06 01:26	16° Ⅱ 24'08	0°55'12
min. Earth dist.	3573 Jun 26 11:26	5° © 54'22	0.54855 AU	min. Earth dist.	3574 Jun 07 23:59	15° Ⅱ 14'34	0.55229 AU
morning rise	3573 Jul 05 02:26	2° © 03'25		morning rise	3574 Jun 14 21:38	12° Ⅱ 00′10	
direct	3573 Jul 08 11:17	1° 5 38'49		direct	3574 Jun 18 23:38	11° Ⅲ 23'53	
morning max el	3573 Jul 21 00:24	7° © 35'11	22°16'14	morning max el	3574 Jul 02 16:06	18° Ⅲ 07'24	23°59'03
asc. node	3573 Aug 05 19:19	0° Ω 13'44			3574 Jul 12 10:24	0° ©	
	3573 Aug 05 16:24	$0^{\circ}\Omega$		asc. node	3574 Jul 23 16:23	19° © 43'32	
morning set	3573 Aug 11 15:11	11° Ω 54'12		morning set	3574 Jul 27 02:52	26°548'50	
	-				3574 Jul 28 14:48	$0^{\circ}\Omega$	
superior conj	3573 Aug 18 19:10	27° Ω 06′50	1°40'21				
superior conj minimum elong	3573 Aug 18 19:10 3573 Aug 18 17:47	27° Ω 06'50 26° Ω 59'32	1°40'21 1°40'16	superior conj	3574 Aug 03 02:41	11° Ω 53'56	1°30'16
	•			superior conj minimum elong	3574 Aug 03 02:41 3574 Aug 03 00:34	11° \O 53'56 11° \O 42'28	1°30'16 1°30'03
	3573 Aug 18 17:47	26° Ω 59'32		1	•		
minimum elong max. Earth dist.	3573 Aug 18 17:47 3573 Aug 20 04:05	26° € 59'32 0° ™	1°40'16	minimum elong max. Earth dist.	3574 Aug 03 00:34 3574 Aug 05 04:57	11° Ω 42'28 16° Ω 24'18	1°30'03
minimum elong	3573 Aug 18 17:47 3573 Aug 20 04:05 3573 Aug 22 04:03 3573 Aug 26 19:06	26° Q 59'32 0° m 4° m 08'50	1°40'16	minimum elong	3574 Aug 03 00:34 3574 Aug 05 04:57 3574 Aug 10 12:43	11° Ω 42'28 16° Ω 24'18 27° Ω 29'22	1°30'03
minimum elong max. Earth dist.	3573 Aug 18 17:47 3573 Aug 20 04:05 3573 Aug 22 04:03 3573 Aug 26 19:06 3573 Sep 04 21:10	26° \$\Omega 59'32 0° m 4° m 08'50 13° m 24'38 0° •	1°40'16	minimum elong max. Earth dist.	3574 Aug 03 00:34 3574 Aug 05 04:57 3574 Aug 10 12:43 3574 Aug 11 18:51	11° Ω 42'28 16° Ω 24'18	1°30'03
minimum elong max. Earth dist. evening rise	3573 Aug 18 17:47 3573 Aug 20 04:05 3573 Aug 22 04:03 3573 Aug 26 19:06 3573 Sep 04 21:10 3573 Sep 12 02:20	26° € 59'32 0° Mp 4° Mp 08'50 13° Mp 24'38 0° Ω= 11° Ω= 39'50	1°40'16	minimum elong max. Earth dist. evening rise	3574 Aug 03 00:34 3574 Aug 05 04:57 3574 Aug 10 12:43 3574 Aug 11 18:51 3574 Aug 29 03:14	11° N 42'28 16° N 24'18 27° N 29'22 0° M 0° S	1°30'03
minimum elong max. Earth dist. evening rise desc. node	3573 Aug 18 17:47 3573 Aug 20 04:05 3573 Aug 22 04:03 3573 Aug 26 19:06 3573 Sep 04 21:10 3573 Sep 12 02:20 3573 Sep 25 16:34	26°	1°40'16 1.34372 AU	minimum elong max. Earth dist. evening rise desc. node	3574 Aug 03 00:34 3574 Aug 05 04:57 3574 Aug 10 12:43 3574 Aug 11 18:51 3574 Aug 29 03:14 3574 Aug 29 23:21	11° N42'28 16° N24'18 27° N29'22 0° M 0° Ω 1° Ω13'40	1°30′03 1.33195 AU
minimum elong max. Earth dist. evening rise desc. node evening max el	3573 Aug 18 17:47 3573 Aug 20 04:05 3573 Aug 22 04:03 3573 Aug 26 19:06 3573 Sep 04 21:10 3573 Sep 12 02:20 3573 Sep 25 16:34 3573 Sep 30 16:30	26°	1°40'16 1.34372 AU	minimum elong max. Earth dist. evening rise desc. node evening max el	3574 Aug 03 00:34 3574 Aug 05 04:57 3574 Aug 10 12:43 3574 Aug 11 18:51 3574 Aug 29 03:14 3574 Aug 29 23:21 3574 Sep 13 03:56	11° በ42'28 16° በ24'18 27° በ29'22 0° ሙ 0° Ω 1° Ω13'40 18° Ω32'34	1°30′03 1.33195 AU
minimum elong max. Earth dist. evening rise desc. node evening max el retrograde	3573 Aug 18 17:47 3573 Aug 20 04:05 3573 Aug 22 04:03 3573 Aug 26 19:06 3573 Sep 04 21:10 3573 Sep 12 02:20 3573 Sep 25 16:34 3573 Sep 30 16:30 3573 Oct 13 22:41	26° \$\alpha 59'32 0° m 4° m 08'50 13° m 24'38 0° \dolds 11° \dolds 39'50 0° m 5° m 17'16 12° m 34'07	1°40'16 1.34372 AU	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde	3574 Aug 03 00:34 3574 Aug 05 04:57 3574 Aug 10 12:43 3574 Aug 11 18:51 3574 Aug 29 03:14 3574 Aug 29 23:21 3574 Sep 13 03:56 3574 Sep 26 18:28	11° በ42'28 16° በ24'18 27° በ29'22 0° ነው 0°	1°30′03 1.33195 AU
minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set	3573 Aug 18 17:47 3573 Aug 20 04:05 3573 Aug 20 04:03 3573 Aug 26 19:06 3573 Sep 04 21:10 3573 Sep 12 02:20 3573 Sep 25 16:34 3573 Sep 30 16:30 3573 Oct 13 22:41 3573 Oct 20 18:24	26° \$\alpha 59'32 0° \$\mathref{m}\$ 4° \$\mathref{m}\$ 08'50 13° \$\mathref{m}\$ 24'38 0° \$\alpha\$ 11° \$\alpha 39'50 0° \$\mathref{m}\$ 5° \$\mathref{m}\$ 17'16 12° \$\mathref{m}\$ 34'07 9° \$\mathref{m}\$ 52'25	1°40'16 1.34372 AU 27°03'13	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set	3574 Aug 03 00:34 3574 Aug 05 04:57 3574 Aug 10 12:43 3574 Aug 11 18:51 3574 Aug 29 03:14 3574 Aug 29 23:21 3574 Sep 13 03:56 3574 Sep 26 18:28 3574 Oct 03 21:58	11° N42'28 16° N24'18 27° N29'22 0° M 0° <u>S</u> 1° <u>S</u> 13'40 18° <u>S</u> 32'34 25° <u>S</u> 49'46 23° <u>S</u> 11'14	1°30'03 1.33195 AU 27°25'36
minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist.	3573 Aug 18 17:47 3573 Aug 20 04:05 3573 Aug 20 04:03 3573 Aug 26 19:06 3573 Sep 04 21:10 3573 Sep 12 02:20 3573 Sep 25 16:34 3573 Sep 30 16:30 3573 Oct 13 22:41 3573 Oct 20 18:24 3573 Oct 24 16:20	26° \$\alpha 59'32 0° \$\mathbf{m}\$ 4° \$\mathbf{m}\$ 08'50 13° \$\mathbf{m}\$ 24'38 0° \$\alpha\$ 11° \$\alpha 39'50 0° \$\mathbf{m}\$ 5° \$\mathbf{m}\$ 17'16 12° \$\mathbf{m}\$ 34'07 9° \$\mathbf{m}\$ 52'25 6° \$\mathbf{m}\$ 03'14	1°40'16 1.34372 AU 27°03'13 0.65332 AU	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist.	3574 Aug 03 00:34 3574 Aug 05 04:57 3574 Aug 10 12:43 3574 Aug 11 18:51 3574 Aug 29 03:14 3574 Aug 29 23:21 3574 Sep 13 03:56 3574 Sep 26 18:28 3574 Oct 03 21:58 3574 Oct 07 14:27	11° N42'28 16° N24'18 27° N29'22 0° M 0° \(\Omega\) 1° \(\Omega\) 13'40 18° \(\Omega\) 23'34 25° \(\Omega\) 49'46 23° \(\Omega\) 11'14 19° \(\Omega\) 55'54	1°30'03 1.33195 AU 27°25'36 0.63804 AU
minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj	3573 Aug 18 17:47 3573 Aug 20 04:05 3573 Aug 20 04:03 3573 Aug 26 19:06 3573 Sep 04 21:10 3573 Sep 12 02:20 3573 Sep 25 16:34 3573 Sep 30 16:30 3573 Oct 13 22:41 3573 Oct 20 18:24 3573 Oct 24 16:20 3573 Oct 26 17:03	26° \$\alpha 59'32 0° \$\mathbf{m}\$ 4° \$\mathbf{m}\$ 08'50 13° \$\mathbf{m}\$ 24'38 0° \$\mathbf{n}\$ 11° \$\mathbf{m}\$ 39'50 0° \$\mathbf{m}\$ 5° \$\mathbf{m}\$ 17'16 12° \$\mathbf{m}\$ 34'07 9° \$\mathbf{m}\$.52'25 6° \$\mathbf{m}\$ 03'14 3° \$\mathbf{m}\$ 45'08	1°40'16 1.34372 AU 27°03'13 0.65332 AU -2°01'35	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj	3574 Aug 03 00:34 3574 Aug 05 04:57 3574 Aug 10 12:43 3574 Aug 11 18:51 3574 Aug 29 03:14 3574 Aug 29 23:21 3574 Sep 13 03:56 3574 Sep 26 18:28 3574 Oct 03 21:58 3574 Oct 07 14:27 3574 Oct 10 03:33	11° \$\alpha 42'28 16° \$\alpha 24'18 27° \$\alpha 29'22 0° \$\mathred{m}\$ 0° \$\Delta\$ 1° \$\Delta 13'40 18° \$\Delta 32'34 25° \$\Delta 49'46 23° \$\Delta 11'14 19° \$\Delta 55'54 17° \$\Delta 19'09	1°30'03 1.33195 AU 27°25'36 0.63804 AU -3°02'01
minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist.	3573 Aug 18 17:47 3573 Aug 20 04:05 3573 Aug 20 04:03 3573 Aug 26 19:06 3573 Sep 04 21:10 3573 Sep 12 02:20 3573 Sep 25 16:34 3573 Sep 30 16:30 3573 Oct 13 22:41 3573 Oct 20 18:24 3573 Oct 24 16:20 3573 Oct 26 17:03 3573 Oct 26 20:26	26° \$\alpha 59'32 0° \$\mathbf{m}\$ 4° \$\mathbf{m}\$ 08'50 13° \$\mathbf{m}\$ 24'38 0° \$\alpha\$ 11° \$\alpha 39'50 0° \$\mathbf{m}\$ 5° \$\mathbf{m}\$ 17'16 12° \$\mathbf{m}\$ 34'07 9° \$\mathbf{m}\$ 52'25 6° \$\mathbf{m}\$ 03'14 3° \$\mathbf{m}\$ 45'08 3° \$\mathbf{m}\$ 35'31	1°40'16 1.34372 AU 27°03'13 0.65332 AU -2°01'35	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong	3574 Aug 03 00:34 3574 Aug 05 04:57 3574 Aug 10 12:43 3574 Aug 11 18:51 3574 Aug 29 03:14 3574 Aug 29 23:21 3574 Sep 13 03:56 3574 Sep 26 18:28 3574 Oct 03 21:58 3574 Oct 07 14:27 3574 Oct 10 03:33 3574 Oct 10 08:32	11° \(A42'28\) 16° \(O24'18\) 27° \(O29'22\) 0° \(\mathbf{m}\) 0° \(\Oalign \) 18° \(\Oalign \) 23° \(\Oalign \) 423° \(\Oalign \) 19° \(\Oalign \) 17° \(\Oalign \) 17° \(\Oalign \) 17° \(\Oalign \) 06' 21	1°30'03 1.33195 AU 27°25'36 0.63804 AU
minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong	3573 Aug 18 17:47 3573 Aug 20 04:05 3573 Aug 20 04:03 3573 Aug 26 19:06 3573 Sep 04 21:10 3573 Sep 12 02:20 3573 Sep 25 16:34 3573 Sep 30 16:30 3573 Oct 13 22:41 3573 Oct 20 18:24 3573 Oct 24 16:20 3573 Oct 26 17:03 3573 Oct 26 20:26 3573 Oct 30 07:33	26° \$\alpha 59'32 0° \$\mathbf{m}\$ 4° \$\mathbf{m}\$ 08'50 13° \$\mathbf{m}\$ 24'38 0° \$\mathbf{n}\$ 11° \$\mathbf{n}\$ 39'50 0° \$\mathbf{m}\$ 5° \$\mathbf{m}\$ 17'16 12° \$\mathbf{m}\$ 34'07 9° \$\mathbf{m}\$ 52'25 6° \$\mathbf{m}\$ 03'14 3° \$\mathbf{m}\$ 45'08 3° \$\mathbf{m}\$ 35'31 30° \$\mathbf{n}\$	1°40'16 1.34372 AU 27°03'13 0.65332 AU -2°01'35	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise	3574 Aug 03 00:34 3574 Aug 05 04:57 3574 Aug 10 12:43 3574 Aug 11 18:51 3574 Aug 29 03:14 3574 Aug 29 23:21 3574 Sep 13 03:56 3574 Sep 26 18:28 3574 Oct 03 21:58 3574 Oct 07 14:27 3574 Oct 10 03:33 3574 Oct 10 08:32 3574 Oct 16 20:24	11° \(A42'28\) 16° \(A24'18\) 27° \(A29'22\) 0° \(\mathbf{m}\) 0° \(\odols\) 1° \(\odols\) 13'40 18° \(\odols\) 32'34 25° \(\odols\) 49'46 23° \(\odols\) 11'14 19° \(\odols\) 55'54 17° \(\odols\) 19'09 17° \(\odols\) 06'21 11° \(\odols\) 59'21	1°30'03 1.33195 AU 27°25'36 0.63804 AU -3°02'01
minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise	3573 Aug 18 17:47 3573 Aug 20 04:05 3573 Aug 20 04:03 3573 Aug 26 19:06 3573 Sep 04 21:10 3573 Sep 12 02:20 3573 Sep 25 16:34 3573 Sep 30 16:30 3573 Oct 13 22:41 3573 Oct 20 18:24 3573 Oct 24 16:20 3573 Oct 26 17:03 3573 Oct 26 20:26 3573 Oct 30 07:33 3573 Nov 01 23:20	26° \$\alpha 59'32 0° \$\mathbf{m}\$ 4° \$\mathbf{m}\$ 08'50 13° \$\mathbf{m}\$ 24'38 0° \$\mathbf{n}\$ 11° \$\mathbf{m}\$ 39'50 0° \$\mathbf{m}\$ 5° \$\mathbf{m}\$ 17'16 12° \$\mathbf{m}\$ 34'07 9° \$\mathbf{m}\$ 52'25 6° \$\mathbf{m}\$ 03'14 3° \$\mathbf{m}\$ 45'08 3° \$\mathbf{m}\$ 35'31 30° \$\mathbf{n}\$ 28° \$\mathbf{m}\$ 09'13	1°40'16 1.34372 AU 27°03'13 0.65332 AU -2°01'35	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct	3574 Aug 03 00:34 3574 Aug 05 04:57 3574 Aug 10 12:43 3574 Aug 11 18:51 3574 Aug 29 03:14 3574 Aug 29 23:21 3574 Sep 13 03:56 3574 Sep 26 18:28 3574 Oct 03 21:58 3574 Oct 10 03:33 3574 Oct 10 08:32 3574 Oct 16 20:24 3574 Oct 19 08:20	11° \(\Omega \) 42'28 16° \(\Omega \) 24'18 27° \(\Omega \) 29'22 0° \(\omega \) 0° \(\Omega \) 1° \(\Omega \) 13'40 18° \(\Omega \) 32'34 25° \(\Omega \) 49'46 23° \(\Omega \) 11'14 19° \(\Omega \) 55'54 17° \(\Omega \) 19'09 17° \(\Omega \) 06'21 11° \(\Omega \) 59'21 11° \(\Omega \) 28'37	1°30'03 1.33195 AU 27°25'36 0.63804 AU -3°02'01
minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise asc. node	3573 Aug 18 17:47 3573 Aug 20 04:05 3573 Aug 20 04:03 3573 Aug 26 19:06 3573 Sep 04 21:10 3573 Sep 12 02:20 3573 Sep 25 16:34 3573 Sep 30 16:30 3573 Oct 13 22:41 3573 Oct 20 18:24 3573 Oct 24 16:20 3573 Oct 26 17:03 3573 Oct 26 20:26 3573 Oct 30 07:33 3573 Nov 01 23:20 3573 Nov 01 18:30	26° \$\alpha 59'32 0° \$\mathbf{m}\$ 4° \$\mathbf{m}\$ 08'50 13° \$\mathbf{m}\$ 24'38 0° \$\mathbf{n}\$ 11° \$\mathbf{m}\$ 39'50 0° \$\mathbf{m}\$ 5° \$\mathbf{m}\$ 17'16 12° \$\mathbf{m}\$ 34'07 9° \$\mathbf{m}\$ 52'25 6° \$\mathbf{m}\$ 03'14 3° \$\mathbf{m}\$ 45'08 3° \$\mathbf{m}\$ 35'31 30° \$\mathbf{n}\$ 28° \$\mathbf{m}\$ 09'13 28° \$\mathbf{m}\$ 15'19	1°40'16 1.34372 AU 27°03'13 0.65332 AU -2°01'35	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node	3574 Aug 03 00:34 3574 Aug 05 04:57 3574 Aug 10 12:43 3574 Aug 11 18:51 3574 Aug 29 03:14 3574 Aug 29 23:21 3574 Sep 13 03:56 3574 Sep 26 18:28 3574 Oct 03 21:58 3574 Oct 10 03:33 3574 Oct 10 08:32 3574 Oct 10 08:32 3574 Oct 19 08:20 3574 Oct 19 15:34	11° \(\Omega \) 42'28 16° \(\Omega \) 24'18 27° \(\Omega \) 29'22 0° \(\omega \) 0° \(\Omega \) 1° \(\Omega \) 13'40 18° \(\Omega \) 32'34 25° \(\Omega \) 49'46 23° \(\Omega \) 11'14 19° \(\Omega \) 55'54 17° \(\Omega \) 19'09 17° \(\Omega \) 06'21 11° \(\Omega \) 28'37 11° \(\Omega \) 29'04	1°30'03 1.33195 AU 27°25'36 0.63804 AU -3°02'01 3°00'17
minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise	3573 Aug 18 17:47 3573 Aug 20 04:05 3573 Aug 20 04:03 3573 Aug 26 19:06 3573 Sep 04 21:10 3573 Sep 12 02:20 3573 Sep 25 16:34 3573 Sep 30 16:30 3573 Oct 13 22:41 3573 Oct 20 18:24 3573 Oct 24 16:20 3573 Oct 26 17:03 3573 Oct 26 20:26 3573 Oct 30 07:33 3573 Nov 01 23:20 3573 Nov 01 18:30 3573 Nov 04 16:51	26° \$\alpha 59'32 0° \$\mathbf{m}\$ 4° \$\mathbf{m}\$ 08'50 13° \$\mathbf{m}\$ 24'38 0° \$\mathbf{n}\$ 11° \$\mathbf{m}\$ 39'50 0° \$\mathbf{m}\$ 5° \$\mathbf{m}\$ 17'16 12° \$\mathbf{m}\$ 34'07 9° \$\mathbf{m}\$ 52'25 6° \$\mathbf{m}\$ 03'14 3° \$\mathbf{m}\$ 45'08 3° \$\mathbf{m}\$ 35'31 30° \$\mathbf{n}\$ 28° \$\mathbf{m}\$ 09'13 28° \$\mathbf{n}\$ 15'19 27° \$\mathbf{m}\$ 28'56	1°40'16 1.34372 AU 27°03'13 0.65332 AU -2°01'35	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct	3574 Aug 03 00:34 3574 Aug 05 04:57 3574 Aug 10 12:43 3574 Aug 11 18:51 3574 Aug 29 03:14 3574 Aug 29 23:21 3574 Sep 13 03:56 3574 Sep 26 18:28 3574 Oct 03 21:58 3574 Oct 10 03:33 3574 Oct 10 08:32 3574 Oct 10 08:32 3574 Oct 19 08:20 3574 Oct 19 15:34 3574 Oct 25 21:28	11° \(\Omega \) 42'28 16° \(\Omega \) 29'22 0° \(\mathred{m} \) 0° \(\Omega \) 1° \(\Omega \) 13'40 18° \(\Omega \) 32'34 25° \(\Omega \) 49'46 23° \(\Omega \) 11'14 19° \(\Omega \) 55'54 17° \(\Omega \) 19'09 17° \(\Omega \) 06'21 11° \(\Omega \) 28'37 11° \(\Omega \) 29'04 14° \(\Omega \) 53'47	1°30'03 1.33195 AU 27°25'36 0.63804 AU -3°02'01 3°00'17
minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise asc. node direct	3573 Aug 18 17:47 3573 Aug 20 04:05 3573 Aug 20 04:03 3573 Aug 26 19:06 3573 Sep 04 21:10 3573 Sep 12 02:20 3573 Sep 25 16:34 3573 Sep 30 16:30 3573 Oct 13 22:41 3573 Oct 20 18:24 3573 Oct 24 16:20 3573 Oct 26 17:03 3573 Oct 26 20:26 3573 Oct 30 07:33 3573 Nov 01 23:20 3573 Nov 01 18:30 3573 Nov 04 16:51 3573 Nov 10 03:52	26° \$\alpha 59'32 0° \$\mathbf{m}\$ 4° \$\mathbf{m}\$ 08'50 13° \$\mathbf{m}\$ 24'38 0° \$\mathbf{n}\$ 11° \$\mathbf{m}\$ 39'50 0° \$\mathbf{m}\$ 5° \$\mathbf{m}\$ 17'16 12° \$\mathbf{m}\$ 34'07 9° \$\mathbf{m}\$ 52'25 6° \$\mathbf{m}\$ 03'14 3° \$\mathbf{m}\$ 45'08 3° \$\mathbf{m}\$ 35'31 30° \$\mathbf{n}\$ 28° \$\mathbf{m}\$ 09'13 28° \$\mathbf{m}\$ 15'19 27° \$\mathbf{m}\$ 28'56 0° \$\mathbf{m}\$	1°40'16 1.34372 AU 27°03'13 0.65332 AU -2°01'35 2°00'14	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el	3574 Aug 03 00:34 3574 Aug 05 04:57 3574 Aug 10 12:43 3574 Aug 11 18:51 3574 Aug 29 03:14 3574 Aug 29 23:21 3574 Sep 13 03:56 3574 Sep 26 18:28 3574 Oct 03 21:58 3574 Oct 10 03:33 3574 Oct 10 08:32 3574 Oct 10 08:32 3574 Oct 19 08:20 3574 Oct 19 15:34 3574 Oct 25 21:28 3574 Nov 05 11:14	11°	1°30'03 1.33195 AU 27°25'36 0.63804 AU -3°02'01 3°00'17
minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise asc. node direct morning max el	3573 Aug 18 17:47 3573 Aug 20 04:05 3573 Aug 20 04:03 3573 Aug 26 19:06 3573 Sep 04 21:10 3573 Sep 12 02:20 3573 Sep 25 16:34 3573 Sep 30 16:30 3573 Oct 13 22:41 3573 Oct 20 18:24 3573 Oct 24 16:20 3573 Oct 26 17:03 3573 Oct 26 20:26 3573 Oct 30 07:33 3573 Nov 01 23:20 3573 Nov 01 18:30 3573 Nov 04 16:51 3573 Nov 10 03:52 3573 Nov 11 04:53	26° \$\alpha 59'32 0° \$\mathbf{m}\$ 4° \$\mathbf{m}\$ 08'50 13° \$\mathbf{m}\$ 24'38 0° \$\mathbf{n}\$ 11° \$\mathbf{m}\$ 39'50 0° \$\mathbf{m}\$ 5° \$\mathbf{m}\$ 17'16 12° \$\mathbf{m}\$ 34'07 9° \$\mathbf{m}\$ 52'25 6° \$\mathbf{m}\$ 03'14 3° \$\mathbf{m}\$ 45'08 3° \$\mathbf{m}\$ 35'31 30° \$\mathbf{n}\$ 28° \$\mathbf{m}\$ 09'13 28° \$\mathbf{m}\$ 15'19 27° \$\mathbf{m}\$ 28'56 0° \$\mathbf{m}\$ 0° \$\mathbf{m}\$ 58'39	1°40'16 1.34372 AU 27°03'13 0.65332 AU -2°01'35	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node	3574 Aug 03 00:34 3574 Aug 05 04:57 3574 Aug 10 12:43 3574 Aug 11 18:51 3574 Aug 29 03:14 3574 Aug 29 23:21 3574 Sep 13 03:56 3574 Sep 26 18:28 3574 Oct 03 21:58 3574 Oct 10 03:33 3574 Oct 10 08:32 3574 Oct 10 08:32 3574 Oct 19 08:20 3574 Oct 19 15:34 3574 Oct 25 21:28 3574 Nov 05 11:14 3574 Nov 11 14:36	11° \(\Omega \) 42'28 16° \(\Omega \) 29'22 0° \(\omega \) 0° \(\omega \) 1° \(\Omega \) 13'40 18° \(\Omega \) 32'34 25° \(\Omega \) 49'46 23° \(\Omega \) 11'14 19° \(\Omega \) 55'54 17° \(\Omega \) 19'09 17° \(\Omega \) 60'21 11° \(\Omega \) 53'47 0° \(\omega \) 10° \(\Omega \) 30'38	1°30'03 1.33195 AU 27°25'36 0.63804 AU -3°02'01 3°00'17
minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise asc. node direct	3573 Aug 18 17:47 3573 Aug 20 04:05 3573 Aug 20 04:03 3573 Aug 26 19:06 3573 Sep 04 21:10 3573 Sep 12 02:20 3573 Sep 25 16:34 3573 Sep 30 16:30 3573 Oct 13 22:41 3573 Oct 20 18:24 3573 Oct 24 16:20 3573 Oct 26 17:03 3573 Oct 26 20:26 3573 Oct 30 07:33 3573 Nov 01 23:20 3573 Nov 01 18:30 3573 Nov 04 16:51 3573 Nov 10 03:52 3573 Nov 11 04:53 3573 Nov 29 15:14	26° \$\alpha 59'32 0° \$\mathbf{m}\$ 4° \$\mathbf{m}\$ 08'50 13° \$\mathbf{m}\$ 24'38 0° \$\mathbf{n}\$ 11° \$\mathbf{m}\$ 39'50 0° \$\mathbf{m}\$ 5° \$\mathbf{m}\$ 17'16 12° \$\mathbf{m}\$ 34'07 9° \$\mathbf{m}\$ 52'25 6° \$\mathbf{m}\$ 03'14 3° \$\mathbf{m}\$ 45'08 3° \$\mathbf{m}\$ 35'31 30° \$\mathbf{n}\$ 28° \$\mathbf{m}\$ 09'13 28° \$\mathbf{n}\$ 15'19 27° \$\mathbf{n}\$ 28'56 0° \$\mathbf{m}\$ 0° \$\mathbf{m}\$ 58'39 28° \$\mathbf{m}\$ 28'42	1°40'16 1.34372 AU 27°03'13 0.65332 AU -2°01'35 2°00'14	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el	3574 Aug 03 00:34 3574 Aug 05 04:57 3574 Aug 10 12:43 3574 Aug 11 18:51 3574 Aug 29 03:14 3574 Aug 29 23:21 3574 Sep 13 03:56 3574 Sep 26 18:28 3574 Oct 03 21:58 3574 Oct 10 03:33 3574 Oct 10 08:32 3574 Oct 10 08:32 3574 Oct 19 08:20 3574 Oct 19 15:34 3574 Oct 25 21:28 3574 Nov 05 11:14	11°	1°30'03 1.33195 AU 27°25'36 0.63804 AU -3°02'01 3°00'17
minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise asc. node direct morning max el morning set	3573 Aug 18 17:47 3573 Aug 20 04:05 3573 Aug 20 04:03 3573 Aug 26 19:06 3573 Sep 04 21:10 3573 Sep 12 02:20 3573 Sep 25 16:34 3573 Sep 30 16:30 3573 Oct 13 22:41 3573 Oct 20 18:24 3573 Oct 20 18:24 3573 Oct 24 16:20 3573 Oct 26 17:03 3573 Oct 26 20:26 3573 Oct 30 07:33 3573 Nov 01 23:20 3573 Nov 01 18:30 3573 Nov 01 18:30 3573 Nov 10 03:52 3573 Nov 11 04:53 3573 Nov 29 15:14 3573 Nov 30 13:29	26° \$\alpha 59'32 0° \$\mathbf{m}\$ 4° \$\mathbf{m}\$ 08'50 13° \$\mathbf{m}\$ 24'38 0° \$\mathbf{n}\$ 11° \$\mathbf{m}\$ 39'50 0° \$\mathbf{m}\$ 5° \$\mathbf{m}\$ 17'16 12° \$\mathbf{m}\$ 34'07 9° \$\mathbf{m}\$ 52'25 6° \$\mathbf{m}\$ 03'14 3° \$\mathbf{m}\$ 45'08 3° \$\mathbf{m}\$ 35'31 30° \$\mathbf{n}\$ 28° \$\mathbf{m}\$ 09'13 28° \$\mathbf{m}\$ 25'56 0° \$\mathbf{m}\$ 0° \$\mathbf{m}\$ 58'39 28° \$\mathbf{m}\$ 28'42 0° \$\nalpha\$	1°40'16 1.34372 AU 27°03'13 0.65332 AU -2°01'35 2°00'14	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el morning set	3574 Aug 03 00:34 3574 Aug 05 04:57 3574 Aug 10 12:43 3574 Aug 11 18:51 3574 Aug 29 03:14 3574 Aug 29 23:21 3574 Sep 13 03:56 3574 Sep 26 18:28 3574 Oct 03 21:58 3574 Oct 10 03:33 3574 Oct 10 08:32 3574 Oct 10 08:32 3574 Oct 19 08:20 3574 Oct 19 15:34 3574 Oct 25 21:28 3574 Nov 05 11:14 3574 Nov 11 14:36 3574 Nov 23 03:26	11° ብ42'28 16° ብ24'18 27° ብ29'22 0° ሙ 0°	1°30'03 1.33195 AU 27°25'36 0.63804 AU -3°02'01 3°00'17
minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise asc. node direct morning max el	3573 Aug 18 17:47 3573 Aug 20 04:05 3573 Aug 20 04:03 3573 Aug 26 19:06 3573 Sep 04 21:10 3573 Sep 12 02:20 3573 Sep 25 16:34 3573 Sep 30 16:30 3573 Oct 13 22:41 3573 Oct 20 18:24 3573 Oct 24 16:20 3573 Oct 26 17:03 3573 Oct 26 20:26 3573 Oct 30 07:33 3573 Nov 01 23:20 3573 Nov 01 18:30 3573 Nov 04 16:51 3573 Nov 10 03:52 3573 Nov 11 04:53 3573 Nov 29 15:14	26° \$\alpha 59'32 0° \$\mathbf{m}\$ 4° \$\mathbf{m}\$ 08'50 13° \$\mathbf{m}\$ 24'38 0° \$\mathbf{n}\$ 11° \$\mathbf{m}\$ 39'50 0° \$\mathbf{m}\$ 5° \$\mathbf{m}\$ 17'16 12° \$\mathbf{m}\$ 34'07 9° \$\mathbf{m}\$ 52'25 6° \$\mathbf{m}\$ 03'14 3° \$\mathbf{m}\$ 45'08 3° \$\mathbf{m}\$ 35'31 30° \$\mathbf{n}\$ 28° \$\mathbf{m}\$ 09'13 28° \$\mathbf{n}\$ 15'19 27° \$\mathbf{n}\$ 28'56 0° \$\mathbf{m}\$ 0° \$\mathbf{m}\$ 58'39 28° \$\mathbf{m}\$ 28'42	1°40'16 1.34372 AU 27°03'13 0.65332 AU -2°01'35 2°00'14	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el morning set	3574 Aug 03 00:34 3574 Aug 05 04:57 3574 Aug 10 12:43 3574 Aug 11 18:51 3574 Aug 29 03:14 3574 Aug 29 23:21 3574 Sep 13 03:56 3574 Sep 26 18:28 3574 Oct 03 21:58 3574 Oct 07 14:27 3574 Oct 10 03:33 3574 Oct 10 08:32 3574 Oct 10 08:32 3574 Oct 10 08:32 3574 Oct 19 08:20 3574 Oct 19 15:34 3574 Oct 25 21:28 3574 Nov 05 11:14 3574 Nov 11 14:36 3574 Nov 24 04:24	11° \$\alpha 42'28 \$ 16° \$\alpha 24'18 \$ 27° \$\alpha 29'22 \$ 0° \$\mathbf{m}\$ \$ 0° \overline{\Omega}\$ \$ 1° \overline{\Omega} 13'40 \$ 18° \overline{\Omega} 23'34 \$ 25° \overline{\Omega} 49'46 \$ 23° \overline{\Omega} 11'14 \$ 19° \overline{\Omega} 55'54 \$ 17° \overline{\Omega} 19'09 \$ 17° \overline{\Omega} 06'21 \$ 11° \overline{\Omega} 28'37 \$ 11° \overline{\Omega} 29'04 \$ 14° \overline{\Omega} 53'47 \$ 0° \$\mathbf{m}\$ \$ 10° \$\mathbf{m}\$ 30'38 \$ 0° \$\scripts'' \$ 1° \$\scripts' 42'28	1°30'03 1.33195 AU 27°25'36 0.63804 AU -3°02'01 3°00'17 17°52'22
minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise asc. node direct morning max el morning set desc. node	3573 Aug 18 17:47 3573 Aug 20 04:05 3573 Aug 20 04:03 3573 Aug 26 19:06 3573 Sep 04 21:10 3573 Sep 12 02:20 3573 Sep 25 16:34 3573 Sep 30 16:30 3573 Oct 13 22:41 3573 Oct 20 18:24 3573 Oct 24 16:20 3573 Oct 26 17:03 3573 Oct 26 20:26 3573 Oct 30 07:33 3573 Nov 01 23:20 3573 Nov 01 18:30 3573 Nov 01 18:30 3573 Nov 10 03:52 3573 Nov 10 03:52 3573 Nov 29 15:14 3573 Nov 30 13:29 3573 Dec 09 01:35	26° \$\alpha 59'32 0° \$\mathbf{m}\$ 4° \$\mathbf{m}\$ 08'50 13° \$\mathbf{m}\$ 24'38 0° \$\mathbf{n}\$ 11° \$\mathbf{m}\$ 39'50 0° \$\mathbf{m}\$ 5° \$\mathbf{m}\$ 17'16 12° \$\mathbf{m}\$ 34'07 9° \$\mathbf{m}\$ 52'25 6° \$\mathbf{m}\$ 03'14 3° \$\mathbf{m}\$ 45'08 3° \$\mathbf{m}\$ 03'14 3° \$\mathbf{m}\$ 45'08 3° \$\mathbf{m}\$ 03'14 3° \$\mathbf{m}\$ 03'14 3° \$\mathbf{m}\$ 03'14 3° \$\mathbf{m}\$ 09'13 28° \$\mathbf{m}\$ 09'13 28° \$\mathbf{m}\$ 15'19 27° \$\mathbf{m}\$ 28'56 0° \$\mathbf{m}\$ 0° \$\mathbf{m}\$ 58'39 28° \$\mathbf{m}\$ 28'42 0° \$\mathbf{x}\$ 13° \$\mathbf{x}\$ 48'26	1°40'16 1.34372 AU 27°03'13 0.65332 AU -2°01'35 2°00'14	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el morning set	3574 Aug 03 00:34 3574 Aug 05 04:57 3574 Aug 10 12:43 3574 Aug 11 18:51 3574 Aug 29 03:14 3574 Aug 29 23:21 3574 Sep 13 03:56 3574 Sep 26 18:28 3574 Oct 03 21:58 3574 Oct 10 03:33 3574 Oct 10 08:32 3574 Oct 10 08:32 3574 Oct 10 08:32 3574 Oct 19 08:20 3574 Oct 19 15:34 3574 Oct 25 21:28 3574 Nov 11 14:36 3574 Nov 23 03:26	11° \$\alpha 42'28 \$ 16° \$\alpha 24'18 \$ 27° \$\alpha 29'22 \$ 0° \$\mathbf{m}\$ \$ 0° \overline{\Omega} \$ 1° \overline{\Omega} 13'40 \$ 18° \overline{\Omega} 23'34 \$ 25° \overline{\Omega} 49'46 \$ 23° \overline{\Omega} 11'14 \$ 19° \overline{\Omega} 55'54 \$ 17° \overline{\Omega} 19'09 \$ 17° \overline{\Omega} 06'21 \$ 11° \overline{\Omega} 28'37 \$ 11° \overline{\Omega} 29'04 \$ 14° \overline{\Omega} 53'47 \$ 0° \$\mathbf{m}\$ \$ 0° \$\notin{\omega} \$ 1° \$\notin{\omega} 42'28 \$ 1° \$\notin{\omega} 447'52 \$ 0° \$\notin{\omega} \$ 1° \$\notin{\omega} 447'52	1°30'03 1.33195 AU 27°25'36 0.63804 AU -3°02'01 3°00'17
minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise asc. node direct morning max el morning set desc. node superior conj	3573 Aug 18 17:47 3573 Aug 20 04:05 3573 Aug 20 04:03 3573 Aug 26 19:06 3573 Sep 04 21:10 3573 Sep 12 02:20 3573 Sep 25 16:34 3573 Sep 30 16:30 3573 Oct 13 22:41 3573 Oct 20 18:24 3573 Oct 24 16:20 3573 Oct 26 17:03 3573 Oct 26 20:26 3573 Oct 30 07:33 3573 Oct 30 07:33 3573 Nov 01 23:20 3573 Nov 01 18:30 3573 Nov 04 16:51 3573 Nov 10 03:52 3573 Nov 10 04:53 3573 Nov 29 15:14 3573 Nov 30 13:29 3573 Dec 09 01:35	26° \$\alpha 59'32 0° \$\mathbf{m}\$ 4° \$\mathbf{m}\$ 08'50 13° \$\mathbf{m}\$ 24'38 0° \$\mathbf{n}\$ 11° \$\mathbf{m}\$ 39'50 0° \$\mathbf{m}\$ 5° \$\mathbf{m}\$ 17'16 12° \$\mathbf{m}\$ 34'07 9° \$\mathbf{m}\$ 52'25 6° \$\mathbf{m}\$ 03'14 3° \$\mathbf{m}\$ 45'08 3° \$\mathbf{m}\$ 45'08 3° \$\mathbf{m}\$ 45'08 3° \$\mathbf{m}\$ 45'19 28° \$\mathbf{m}\$ 28' \$\mathbf{m}\$ 15'19 27° \$\mathbf{m}\$ 28'56 0° \$\mathbf{m}\$ 0° \$\mathbf{m}\$ 58'39 28° \$\mathbf{m}\$ 28'42 0° \$\nalpha\$ 13° \$\nalpha\$ 48'26	1°40'16 1.34372 AU 27°03'13 0.65332 AU -2°01'35 2°00'14 18°09'28	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el morning set	3574 Aug 03 00:34 3574 Aug 05 04:57 3574 Aug 10 12:43 3574 Aug 11 18:51 3574 Aug 29 03:14 3574 Aug 29 23:21 3574 Sep 13 03:56 3574 Sep 26 18:28 3574 Oct 03 21:58 3574 Oct 10 03:33 3574 Oct 10 08:32 3574 Oct 10 08:32 3574 Oct 10 08:20 3574 Oct 19 08:20 3574 Oct 19 15:34 3574 Oct 25 21:28 3574 Nov 05 11:14 3574 Nov 11 14:36 3574 Nov 24 04:24 3574 Nov 24 05:44 3574 Nov 23 23:02	11° \$\alpha 42'28 16° \$\alpha 24'18 27° \$\alpha 29'22 0° \$\mathbf{m}\$ 0° \$\mathbf{n}\$ 1° \$\mathbf{n} 13'40 18° \$\mathbf{n} 32'34 25° \$\mathbf{n} 49'46 23° \$\mathbf{n} 11'14 19° \$\mathbf{n} 55'54 17° \$\mathbf{n} 19'09 17° \$\mathbf{n} 06'21 11° \$\mathbf{n} 25'9'21 11° \$\mathbf{n} 28'37 11° \$\mathbf{n} 29'04 14° \$\mathbf{n} 53'47 0° \$\mathbf{m}\$ 10° \$\mathbf{m} 30'38 0° \$\mathbf{n}\$ 1° \$\mathbf{n} 42'28 1° \$\mathbf{n} 47'52 1° \$\mathbf{n} 20'30	1°30'03 1.33195 AU 27°25'36 0.63804 AU -3°02'01 3°00'17 17°52'22
minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise asc. node direct morning max el morning set desc. node superior conj minimum elong	3573 Aug 18 17:47 3573 Aug 20 04:05 3573 Aug 20 04:03 3573 Aug 26 19:06 3573 Sep 04 21:10 3573 Sep 12 02:20 3573 Sep 25 16:34 3573 Sep 30 16:30 3573 Oct 13 22:41 3573 Oct 20 18:24 3573 Oct 24 16:20 3573 Oct 26 17:03 3573 Oct 26 20:26 3573 Oct 30 07:33 3573 Nov 01 23:20 3573 Nov 01 18:30 3573 Nov 04 16:51 3573 Nov 10 03:52 3573 Nov 10 03:52 3573 Nov 10 03:52 3573 Nov 29 15:14 3573 Nov 30 13:29 3573 Dec 09 01:35	26° \$\alpha 59'32 0° \$\mathbf{m}\$ 4° \$\mathbf{m}\$ 08'50 13° \$\mathbf{m}\$ 24'38 0° \$\mathbf{n}\$ 11° \$\mathbf{m}\$ 39'50 0° \$\mathbf{m}\$ 5° \$\mathbf{m}\$ 17'16 12° \$\mathbf{m}\$ 34'07 9° \$\mathbf{m}\$ 52'25 6° \$\mathbf{m}\$ 03'14 3° \$\mathbf{m}\$ 45'08 3° \$\mathbf{m}\$ 45'08 3° \$\mathbf{m}\$ 45'13 28° \$\mathbf{m}\$ 09'13 28° \$\mathbf{m}\$ 28' \$\mathbf{m}\$ 09'13 28° \$\mathbf{m}\$ 28'56 0° \$\mathbf{m}\$ 0° \$\mathbf{m}\$ 58'39 28° \$\mathbf{m}\$ 28'42 0° \$\nalpha\$ 13° \$\nalpha\$ 48'26 22° \$\nalpha\$ 04'05 21° \$\nalpha\$ 46'37	1°40'16 1.34372 AU 27°03'13 0.65332 AU -2°01'35 2°00'14 18°09'28 -0°34'52 0°34'15	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el morning set superior conj minimum elong behind sun begin behind sun end	3574 Aug 03 00:34 3574 Aug 05 04:57 3574 Aug 10 12:43 3574 Aug 11 18:51 3574 Aug 29 03:14 3574 Aug 29 23:21 3574 Sep 13 03:56 3574 Sep 26 18:28 3574 Oct 03 21:58 3574 Oct 10 03:33 3574 Oct 10 08:32 3574 Oct 10 08:32 3574 Oct 10 08:20 3574 Oct 19 08:20 3574 Oct 19 15:34 3574 Oct 25 21:28 3574 Nov 11 14:36 3574 Nov 24 04:24 3574 Nov 24 04:24 3574 Nov 24 05:44 3574 Nov 24 05:44 3574 Nov 24 12:25	11° \$\alpha 42'28 16° \$\alpha 24'18 27° \$\alpha 29'22 0° \$\mathbf{m}\$ 0° \$\mathbf{n}\$ 1° \$\mathbf{n} 13'40 18° \$\mathbf{n} 32'34 25° \$\mathbf{n} 49'46 23° \$\mathbf{n} 11'14 19° \$\mathbf{n} 55'54 17° \$\mathbf{n} 19'09 17° \$\mathbf{n} 06'21 11° \$\mathbf{n} 28'37 11° \$\mathbf{n} 29'04 14° \$\mathbf{n} 53'47 0° \$\mathbf{m}\$ 10° \$\mathbf{m} 30'38 0° \$\nalpha\$ 1° \$\nalpha 42'28 1° \$\nalpha 47'52 1° \$\nalpha 20'30 2° \$\nalpha 15'12	1°30'03 1.33195 AU 27°25'36 0.63804 AU -3°02'01 3°00'17 17°52'22
minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise asc. node direct morning max el morning set desc. node superior conj	3573 Aug 18 17:47 3573 Aug 20 04:05 3573 Aug 20 04:03 3573 Aug 26 19:06 3573 Sep 04 21:10 3573 Sep 12 02:20 3573 Sep 25 16:34 3573 Sep 30 16:30 3573 Oct 13 22:41 3573 Oct 20 18:24 3573 Oct 24 16:20 3573 Oct 26 17:03 3573 Oct 26 20:26 3573 Oct 26 20:26 3573 Oct 30 07:33 3573 Nov 01 23:20 3573 Nov 01 18:30 3573 Nov 04 16:51 3573 Nov 10 03:52 3573 Nov 10 03:52 3573 Nov 11 04:53 3573 Nov 29 15:14 3573 Nov 30 13:29 3573 Dec 14 06:02 3573 Dec 14 01:37 3573 Dec 17 04:37	26° \$\alpha 59'32 0° \$\mathbf{m}\$ 4° \$\mathbf{m}\$ 08'50 13° \$\mathbf{m}\$ 24'38 0° \$\oldsymbol{\Omega}\$ 11° \$\oldsymbol{\Omega}\$ 39'50 0° \$\mathbf{m}\$ 5° \$\mathbf{m}\$ 17'16 12° \$\mathbf{m}\$ 34'07 9° \$\mathbf{m}\$ 52'25 6° \$\mathbf{m}\$ 03'14 3° \$\mathbf{m}\$ 45'08 3° \$\mathbf{m}\$ 45'08 3° \$\mathbf{m}\$ 45'08 3° \$\mathbf{m}\$ 45'08 28° \$\oldsymbol{\Omega}\$ 09'13 28° \$\oldsymbol{\Omega}\$ 28'56 0° \$\mathbf{m}\$ 0° \$\mathbf{m}\$ 58'39 28° \$\mathbf{m}\$ 28'42 0° \$\star*\$ 13° \$\star*\$ 48'26 22° \$\star*\$ 04'05 21° \$\star*\$ 46'37 26° \$\star*\$ 42'31	1°40'16 1.34372 AU 27°03'13 0.65332 AU -2°01'35 2°00'14 18°09'28 -0°34'52 0°34'15	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el morning set	3574 Aug 03 00:34 3574 Aug 05 04:57 3574 Aug 10 12:43 3574 Aug 11 18:51 3574 Aug 29 03:14 3574 Aug 29 03:14 3574 Aug 29 23:21 3574 Sep 13 03:56 3574 Sep 26 18:28 3574 Oct 03 21:58 3574 Oct 10 03:33 3574 Oct 10 08:32 3574 Oct 10 08:32 3574 Oct 10 08:20 3574 Oct 19 15:34 3574 Oct 19 15:34 3574 Oct 25 21:28 3574 Nov 05 11:14 3574 Nov 11 14:36 3574 Nov 24 03:26 3574 Nov 24 04:24 3574 Nov 24 05:44 3574 Nov 24 12:25 3574 Nov 25 22:37	11° \(\alpha \) 42'28 16° \(\alpha \) 29'22 0° \(\bar{\mathbb{n}} \) 0° \(\odoldows \) 1° \(\odoldows \) 13'40 18° \(\odoldows \) 23'34 25° \(\odoldows \) 49'46 23° \(\odoldows \) 11'14 19° \(\odoldows \) 55'54 17° \(\odoldows \) 19'09 17° \(\odoldows \) 06'21 11° \(\odoldows \) 59'21 11° \(\odoldows \) 28'37 11° \(\odoldows \) 29'04 14° \(\odoldows \) 53'47 0° \(\odoldows \) 10° \(\tau \) 42'28 1° \(\tau \) 47'52 1° \(\tau \) 20'30 2° \(\tau \) 15'12 4° \(\tau \) 34'27	1°30'03 1.33195 AU 27°25'36 0.63804 AU -3°02'01 3°00'17 17°52'22
minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise asc. node direct morning max el morning set desc. node superior conj minimum elong max. Earth dist.	3573 Aug 18 17:47 3573 Aug 20 04:05 3573 Aug 20 04:03 3573 Aug 22 04:03 3573 Aug 26 19:06 3573 Sep 04 21:10 3573 Sep 12 02:20 3573 Sep 25 16:34 3573 Sep 30 16:30 3573 Oct 13 22:41 3573 Oct 20 18:24 3573 Oct 24 16:20 3573 Oct 26 17:03 3573 Oct 26 20:26 3573 Oct 30 07:33 3573 Oct 30 07:33 3573 Nov 01 23:20 3573 Nov 01 18:30 3573 Nov 04 16:51 3573 Nov 10 03:52 3573 Dec 14 06:02 3573 Dec 14 06:02 3573 Dec 14 01:37 3573 Dec 19 06:56	26° \$\alpha 59'32 0° \$\mathbf{m}\$ 4° \$\mathbf{m}\$ 08'50 13° \$\mathbf{m}\$ 24'38 0° \$\mathbf{n}\$ 11° \$\mathbf{m}\$ 39'50 0° \$\mathbf{m}\$ 5° \$\mathbf{m}\$ 17'16 12° \$\mathbf{m}\$ 34'07 9° \$\mathbf{m}\$ 52'25 6° \$\mathbf{m}\$ 03'14 3° \$\mathbf{m}\$ 45'08 3° \$\mathbf{m}\$ 45'08 3° \$\mathbf{m}\$ 45'08 3° \$\mathbf{m}\$ 45'08 28° \$\mathbf{m}\$ 09'13 28° \$\mathbf{m}\$ 09'13 28° \$\mathbf{m}\$ 215'19 27° \$\mathbf{m}\$ 228'56 0° \$\mathbf{m}\$ 0° \$\mathbf{m}\$ 58'39 28° \$\mathbf{m}\$ 28'42 0° \$\nalpha\$ 13° \$\nalpha\$ 48'26 22° \$\nalpha\$ 04'05 21° \$\nalpha\$ 46'37 26° \$\nalpha\$ 42'31 0° \$\nalpha\$	1°40'16 1.34372 AU 27°03'13 0.65332 AU -2°01'35 2°00'14 18°09'28 -0°34'52 0°34'15	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el morning set	3574 Aug 03 00:34 3574 Aug 05 04:57 3574 Aug 10 12:43 3574 Aug 11 18:51 3574 Aug 29 03:14 3574 Aug 29 03:14 3574 Aug 29 23:21 3574 Sep 13 03:56 3574 Sep 26 18:28 3574 Oct 03 21:58 3574 Oct 10 03:33 3574 Oct 10 08:32 3574 Oct 10 08:32 3574 Oct 19 08:20 3574 Oct 19 15:34 3574 Oct 25 21:28 3574 Nov 11 14:36 3574 Nov 11 14:36 3574 Nov 24 03:26 3574 Nov 24 03:44 3574 Nov 24 03:44 3574 Nov 24 03:44 3574 Nov 24 12:25 3574 Nov 25 22:37 3574 Nov 29 23:00	11° \$\alpha 42'28 16° \$\alpha 24'18 27° \$\alpha 29'22 0° \$\mathbf{m}\$ 0° \$\mathbf{n}\$ 1° \$\mathbf{n} 13'40 18° \$\mathbf{n} 32'34 25° \$\mathbf{n} 49'46 23° \$\mathbf{n} 11'14 19° \$\mathbf{n} 55'54 17° \$\mathbf{n} 19'09 17° \$\mathbf{n} 06'21 11° \$\mathbf{n} 59'21 11° \$\mathbf{n} 59'21 11° \$\mathbf{n} 59'21 11° \$\mathbf{n} 59'21 10° \$\mathbf{n} 30'38 0° \$\mathbf{n}\$ 10° \$\mathbf{n} 30'38 0° \$\mathbf{n}\$ 1° \$\mathbf{n} 42'28 1° \$\mathbf{n} 47'52 1° \$\mathbf{n} 20'30 2° \$\mathbf{n} 15'12 4° \$\mathbf{n} 34'27 11° \$\mathbf{n} 01'51	1°30'03 1.33195 AU 27°25'36 0.63804 AU -3°02'01 3°00'17 17°52'22
minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise asc. node direct morning max el morning set desc. node superior conj minimum elong	3573 Aug 18 17:47 3573 Aug 20 04:05 3573 Aug 20 04:03 3573 Aug 26 19:06 3573 Sep 04 21:10 3573 Sep 12 02:20 3573 Sep 25 16:34 3573 Sep 30 16:30 3573 Oct 13 22:41 3573 Oct 20 18:24 3573 Oct 24 16:20 3573 Oct 26 17:03 3573 Oct 26 20:26 3573 Oct 26 20:26 3573 Oct 30 07:33 3573 Nov 01 23:20 3573 Nov 01 18:30 3573 Nov 04 16:51 3573 Nov 10 03:52 3573 Nov 10 03:52 3573 Nov 11 04:53 3573 Nov 29 15:14 3573 Nov 30 13:29 3573 Dec 14 06:02 3573 Dec 14 01:37 3573 Dec 17 04:37	26° \$\alpha 59'32 0° \$\mathbf{m}\$ 4° \$\mathbf{m}\$ 08'50 13° \$\mathbf{m}\$ 24'38 0° \$\mathbf{n}\$ 11° \$\mathbf{m}\$ 239'50 0° \$\mathbf{m}\$ 5° \$\mathbf{m}\$ 17'16 12° \$\mathbf{m}\$ 34'07 9° \$\mathbf{m}\$ 52'25 6° \$\mathbf{m}\$ 03'14 3° \$\mathbf{m}\$ 45'08 3° \$\mathbf{m}\$ 35'31 30° \$\mathbf{n}\$ 28° \$\mathbf{m}\$ 09'13 28° \$\mathbf{m}\$ 28'56 0° \$\mathbf{m}\$ 0° \$\mathbf{m}\$ 58'39 28° \$\mathbf{m}\$ 28'42 0° \$\mathbf{n}\$ 13° \$\mathbf{n}\$ 48'26 22° \$\mathbf{n}\$ 04'05 21° \$\mathbf{n}\$ 46'37 26° \$\mathbf{n}\$ 42'31 0° \$\mathbf{n}\$ 17° \$\mathbf{G}\$ 37'16	1°40'16 1.34372 AU 27°03'13 0.65332 AU -2°01'35 2°00'14 18°09'28 -0°34'52 0°34'15	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el morning set	3574 Aug 03 00:34 3574 Aug 05 04:57 3574 Aug 10 12:43 3574 Aug 11 18:51 3574 Aug 29 03:14 3574 Aug 29 03:14 3574 Aug 29 23:21 3574 Sep 13 03:56 3574 Sep 26 18:28 3574 Oct 03 21:58 3574 Oct 10 03:33 3574 Oct 10 08:32 3574 Oct 10 08:32 3574 Oct 19 08:20 3574 Oct 19 15:34 3574 Oct 19 15:34 3574 Oct 25 21:28 3574 Nov 05 11:14 3574 Nov 11 14:36 3574 Nov 23 03:26 3574 Nov 24 04:24 3574 Nov 24 05:44 3574 Nov 24 05:44 3574 Nov 25 22:37 3574 Nov 29 23:00 3574 Dec 10 00:41	11° \$\alpha 42'28 16° \$\alpha 24'18 27° \$\alpha 29'22 0° \$\mathbb{m}\$ 0° \$\mathbb{n}\$ 1° \$\mathbb{n} 13'40 18° \$\mathbb{n} 32'34 25° \$\mathbb{n} 49'46 23° \$\mathbb{n} 11'14 19° \$\mathbb{n} 55'54 17° \$\mathbb{n} 19'09 17° \$\mathbb{n} 6'21 11° \$\mathbb{n} 59'21 11° \$\mathbb{n} 59'21 11° \$\mathbb{n} 59'21 11° \$\mathbb{n} 59'21 11° \$\mathbb{n} 53'47 0° \$\mathbb{m}\$ 10° \$\mathbb{m} 30'38 0° \$\mathbb{n}\$ 1° \$\mathbb{n} 42'28 1° \$\mathbb{n} 47'52 1° \$\mathbb{n} 20'30 2° \$\mathbb{n} 15'12 4° \$\mathbb{n} 34'27 11° \$\mathbb{n} 01'51 26° \$\mathbb{n} 46'55	1°30'03 1.33195 AU 27°25'36 0.63804 AU -3°02'01 3°00'17 17°52'22
minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise asc. node direct morning max el morning set desc. node superior conj minimum elong max. Earth dist.	3573 Aug 18 17:47 3573 Aug 20 04:05 3573 Aug 20 04:03 3573 Aug 22 04:03 3573 Aug 26 19:06 3573 Sep 04 21:10 3573 Sep 12 02:20 3573 Sep 25 16:34 3573 Sep 30 16:30 3573 Oct 13 22:41 3573 Oct 20 18:24 3573 Oct 24 16:20 3573 Oct 26 17:03 3573 Oct 26 20:26 3573 Oct 30 07:33 3573 Oct 30 07:33 3573 Nov 01 23:20 3573 Nov 01 18:30 3573 Nov 04 16:51 3573 Nov 10 03:52 3573 Dec 14 06:02 3573 Dec 14 06:02 3573 Dec 14 01:37 3573 Dec 19 06:56	26° \$\alpha 59'32 0° \$\mathbf{m}\$ 4° \$\mathbf{m}\$ 08'50 13° \$\mathbf{m}\$ 24'38 0° \$\mathbf{n}\$ 11° \$\mathbf{m}\$ 239'50 0° \$\mathbf{m}\$ 5° \$\mathbf{m}\$ 17'16 12° \$\mathbf{m}\$ 34'07 9° \$\mathbf{m}\$ 52'25 6° \$\mathbf{m}\$ 03'14 3° \$\mathbf{m}\$ 45'08 3° \$\mathbf{m}\$ 35'31 30° \$\mathbf{n}\$ 28° \$\mathbf{m}\$ 09'13 28° \$\mathbf{m}\$ 28'56 0° \$\mathbf{m}\$ 0° \$\mathbf{m}\$ 58'39 28° \$\mathbf{m}\$ 28'42 0° \$\mathbf{n}\$ 13° \$\mathbf{n}\$ 46'37 26° \$\mathbf{n}\$ 46'37 26° \$\mathbf{n}\$ 42'31 0° \$\mathbf{n}\$ 17° \$\mathbf{n}\$ 37'16 0° \$\infty\$	1°40'16 1.34372 AU 27°03'13 0.65332 AU -2°01'35 2°00'14 18°09'28 -0°34'52 0°34'15 1.45123 AU	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el morning set	3574 Aug 03 00:34 3574 Aug 05 04:57 3574 Aug 10 12:43 3574 Aug 11 18:51 3574 Aug 29 03:14 3574 Aug 29 03:14 3574 Aug 29 23:21 3574 Sep 13 03:56 3574 Sep 26 18:28 3574 Oct 03 21:58 3574 Oct 10 03:33 3574 Oct 10 08:32 3574 Oct 10 08:32 3574 Oct 19 08:20 3574 Oct 19 15:34 3574 Oct 25 21:28 3574 Nov 11 14:36 3574 Nov 11 14:36 3574 Nov 24 03:26 3574 Nov 24 03:44 3574 Nov 24 03:44 3574 Nov 24 03:44 3574 Nov 24 12:25 3574 Nov 25 22:37 3574 Nov 29 23:00	11° ብ42'28 16° ብ24'18 27° ብ29'22 0° ሙ 0° 요 1° 요13'40 18° 요32'34 25° 요49'46 23° 요11'14 19° 요55'54 17° 요19'09 17° 요06'21 11° 요28'37 11° 요29'04 14° 요53'47 0° ጤ 10° ጤ30'38 0° Ґ 1° Ґ 42'28 1° Ґ 47'52 1° Ґ 20'30 2° Ґ 15'12 4° Ґ 34'27 11° Ґ 701'51 26° Ґ 46'55 0° ጜ	1°30'03 1.33195 AU 27°25'36 0.63804 AU -3°02'01 3°00'17 17°52'22
minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise asc. node direct morning max el morning set desc. node superior conj minimum elong max. Earth dist.	3573 Aug 18 17:47 3573 Aug 20 04:05 3573 Aug 20 04:03 3573 Aug 26 19:06 3573 Sep 04 21:10 3573 Sep 12 02:20 3573 Sep 25 16:34 3573 Sep 30 16:30 3573 Oct 13 22:41 3573 Oct 20 18:24 3573 Oct 24 16:20 3573 Oct 26 17:03 3573 Oct 26 20:26 3573 Oct 30 07:33 3573 Nov 01 23:20 3573 Nov 01 18:30 3573 Nov 04 16:51 3573 Nov 10 03:52 3573 Nov 11 04:53 3573 Nov 29 15:14 3573 Nov 29 15:14 3573 Nov 30 13:29 3573 Dec 14 06:02 3573 Dec 14 06:02 3573 Dec 14 01:37 3573 Dec 19 06:56 3573 Dec 30 14:18	26° \$\alpha 59'32 0° \$\mathbf{m}\$ 4° \$\mathbf{m}\$ 08'50 13° \$\mathbf{m}\$ 24'38 0° \$\mathbf{n}\$ 11° \$\mathbf{m}\$ 239'50 0° \$\mathbf{m}\$ 5° \$\mathbf{m}\$ 17'16 12° \$\mathbf{m}\$ 34'07 9° \$\mathbf{m}\$ 52'25 6° \$\mathbf{m}\$ 03'14 3° \$\mathbf{m}\$ 45'08 3° \$\mathbf{m}\$ 35'31 30° \$\mathbf{n}\$ 28° \$\mathbf{m}\$ 09'13 28° \$\mathbf{m}\$ 28'56 0° \$\mathbf{m}\$ 0° \$\mathbf{m}\$ 58'39 28° \$\mathbf{m}\$ 28'42 0° \$\mathbf{n}\$ 13° \$\mathbf{n}\$ 48'26 22° \$\mathbf{n}\$ 04'05 21° \$\mathbf{n}\$ 46'37 26° \$\mathbf{n}\$ 42'31 0° \$\mathbf{n}\$ 17° \$\mathbf{G}\$ 37'16	1°40'16 1.34372 AU 27°03'13 0.65332 AU -2°01'35 2°00'14 18°09'28 -0°34'52 0°34'15 1.45123 AU	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el morning set	3574 Aug 03 00:34 3574 Aug 05 04:57 3574 Aug 10 12:43 3574 Aug 11 18:51 3574 Aug 29 03:14 3574 Aug 29 03:14 3574 Aug 29 23:21 3574 Sep 13 03:56 3574 Sep 26 18:28 3574 Oct 07 14:27 3574 Oct 10 03:33 3574 Oct 10 08:32 3574 Oct 10 08:32 3574 Oct 19 08:20 3574 Oct 19 15:34 3574 Oct 19 15:34 3574 Oct 25 21:28 3574 Nov 05 11:14 3574 Nov 11 14:36 3574 Nov 23 03:26 3574 Nov 24 04:24 3574 Nov 24 04:24 3574 Nov 24 05:44 3574 Nov 25 22:37 3574 Nov 29 23:00 3574 Dec 10 00:41 3574 Dec 12 03:02 3575 Jan 01 16:13	11° \$\alpha 42'28 16° \$\alpha 24'18 27° \$\alpha 29'22 0° \$\mathbb{m}\$ 0° \$\mathbb{n}\$ 1° \$\mathbb{n} 13'40 18° \$\mathbb{n} 32'34 25° \$\mathbb{n} 49'46 23° \$\mathbb{n} 11'14 19° \$\mathbb{n} 55'54 17° \$\mathbb{n} 19'09 17° \$\mathbb{n} 6'21 11° \$\mathbb{n} 59'21 11° \$\mathbb{n} 59'21 11° \$\mathbb{n} 59'21 11° \$\mathbb{n} 59'21 11° \$\mathbb{n} 53'47 0° \$\mathbb{m}\$ 10° \$\mathbb{m} 30'38 0° \$\mathbb{n}\$ 1° \$\mathbb{n} 42'28 1° \$\mathbb{n} 47'52 1° \$\mathbb{n} 20'30 2° \$\mathbb{n} 15'12 4° \$\mathbb{n} 34'27 11° \$\mathbb{n} 01'51 26° \$\mathbb{n} 46'55	1°30'03 1.33195 AU 27°25'36 0.63804 AU -3°02'01 3°00'17 17°52'22
minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise asc. node direct morning max el morning set desc. node superior conj minimum elong max. Earth dist. evening rise	3573 Aug 18 17:47 3573 Aug 20 04:05 3573 Aug 20 04:03 3573 Aug 26 19:06 3573 Sep 04 21:10 3573 Sep 12 02:20 3573 Sep 25 16:34 3573 Sep 30 16:30 3573 Oct 13 22:41 3573 Oct 20 18:24 3573 Oct 24 16:20 3573 Oct 26 17:03 3573 Oct 26 20:26 3573 Oct 30 07:33 3573 Nov 01 23:20 3573 Nov 01 18:30 3573 Nov 04 16:51 3573 Nov 10 03:52 3573 Nov 11 04:53 3573 Nov 29 15:14 3573 Nov 29 15:14 3573 Nov 30 13:29 3573 Dec 14 06:02 3573 Dec 14 06:02 3573 Dec 14 06:02 3573 Dec 14 06:56 3573 Dec 30 14:18 3574 Jan 07 14:16	26° \$\alpha 59'32 0° \$\mathbf{m}\$ 4° \$\mathbf{m}\$ 08'50 13° \$\mathbf{m}\$ 24'38 0° \$\mathbf{n}\$ 11° \$\mathbf{m}\$ 239'50 0° \$\mathbf{m}\$ 5° \$\mathbf{m}\$ 17'16 12° \$\mathbf{m}\$ 34'07 9° \$\mathbf{m}\$ 52'25 6° \$\mathbf{m}\$ 03'14 3° \$\mathbf{m}\$ 45'08 3° \$\mathbf{m}\$ 35'31 30° \$\mathbf{n}\$ 28° \$\mathbf{m}\$ 09'13 28° \$\mathbf{m}\$ 28'56 0° \$\mathbf{m}\$ 0° \$\mathbf{m}\$ 58'39 28° \$\mathbf{m}\$ 28'42 0° \$\mathbf{n}\$ 13° \$\mathbf{n}\$ 46'37 26° \$\mathbf{n}\$ 46'37 26° \$\mathbf{n}\$ 42'31 0° \$\mathbf{n}\$ 17° \$\mathbf{n}\$ 37'16 0° \$\infty\$	1°40'16 1.34372 AU 27°03'13 0.65332 AU -2°01'35 2°00'14 18°09'28 -0°34'52 0°34'15 1.45123 AU	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el morning set	3574 Aug 03 00:34 3574 Aug 05 04:57 3574 Aug 10 12:43 3574 Aug 11 18:51 3574 Aug 29 03:14 3574 Aug 29 03:14 3574 Aug 29 23:21 3574 Sep 13 03:56 3574 Sep 26 18:28 3574 Oct 03 21:58 3574 Oct 10 03:33 3574 Oct 10 08:32 3574 Oct 10 08:32 3574 Oct 19 08:20 3574 Oct 19 15:34 3574 Oct 19 15:34 3574 Oct 25 21:28 3574 Nov 05 11:14 3574 Nov 11 14:36 3574 Nov 23 03:26 3574 Nov 24 04:24 3574 Nov 24 04:24 3574 Nov 24 05:44 3574 Nov 25 22:37 3574 Nov 29 23:00 3574 Dec 10 00:41 3574 Dec 12 03:02	11° ብ42'28 16° ብ24'18 27° ብ29'22 0° ሙ 0° 요 1° 요13'40 18° 요32'34 25° 요49'46 23° 요11'14 19° 요55'54 17° 요19'09 17° 요06'21 11° 요28'37 11° 요29'04 14° 요53'47 0° ጤ 10° ጤ30'38 0° Ґ 1° Ґ 42'28 1° Ґ 47'52 1° Ґ 20'30 2° Ґ 15'12 4° Ґ 34'27 11° Ґ 01'51 26° Ґ 46'55 0° ጜ 0° ≈	1°30'03 1.33195 AU 27°25'36 0.63804 AU -3°02'01 3°00'17 17°52'22
minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise asc. node direct morning max el morning set desc. node superior conj minimum elong max. Earth dist. evening rise greatest brilliancy	3573 Aug 18 17:47 3573 Aug 20 04:05 3573 Aug 20 04:03 3573 Aug 26 19:06 3573 Sep 04 21:10 3573 Sep 12 02:20 3573 Sep 25 16:34 3573 Sep 30 16:30 3573 Oct 13 22:41 3573 Oct 20 18:24 3573 Oct 26 17:03 3573 Oct 26 20:26 3573 Oct 26 20:26 3573 Oct 30 07:33 3573 Nov 01 23:20 3573 Nov 01 18:30 3573 Nov 01 18:30 3573 Nov 04 16:51 3573 Nov 10 03:52 3573 Nov 11 04:53 3573 Nov 29 15:14 3573 Nov 30 13:29 3573 Dec 14 06:02 3573 Dec 14 06:02 3573 Dec 14 01:37 3573 Dec 17 04:37 3573 Dec 19 06:56 3573 Dec 30 14:18 3574 Jan 07 14:16 3574 Jan 07 14:16	26° \$\alpha 59'32 0° \$\mathbf{m}\$ 4° \$\mathbf{m}\$ 08'50 13° \$\mathbf{m}\$ 24'38 0° \$\mathbf{n}\$ 11° \$\mathbf{m}\$ 239'50 0° \$\mathbf{m}\$ 5° \$\mathbf{m}\$ 17'16 12° \$\mathbf{m}\$ 34'07 9° \$\mathbf{m}\$ 52'25 6° \$\mathbf{m}\$ 03'14 3° \$\mathbf{m}\$ 45'08 3° \$\mathbf{m}\$ 30' \$\mathbf{m}\$ 28° \$\mathbf{m}\$ 09'13 28° \$\mathbf{m}\$ 09'13 28° \$\mathbf{m}\$ 15'19 27° \$\mathbf{m}\$ 28'56 0° \$\mathbf{m}\$ 0° \$\mathbf{m}\$ 58'39 28° \$\mathbf{m}\$ 28'42 0° \$\nalpha\$ 13° \$\nalpha\$ 48'26 22° \$\nalpha\$ 04'05 21° \$\nalpha\$ 46'37 26° \$\nalpha\$ 42'31 0° \$\mathbf{n}\$ 17° \$\mathbf{m}\$ 37'16 0° \$\infty\$ 7° \$\infty\$ 00'05	1°40'16 1.34372 AU 27°03'13 0.65332 AU -2°01'35 2°00'14 18°09'28 -0°34'52 0°34'15 1.45123 AU -0.7m	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el superior conj minimum elong behind sun begin behind sun end desc. node max. Earth dist. evening rise	3574 Aug 03 00:34 3574 Aug 05 04:57 3574 Aug 10 12:43 3574 Aug 11 18:51 3574 Aug 29 03:14 3574 Aug 29 03:14 3574 Aug 29 23:21 3574 Sep 13 03:56 3574 Sep 26 18:28 3574 Oct 07 14:27 3574 Oct 10 03:33 3574 Oct 10 08:32 3574 Oct 10 08:32 3574 Oct 19 08:20 3574 Oct 19 15:34 3574 Oct 19 15:34 3574 Oct 25 21:28 3574 Nov 05 11:14 3574 Nov 11 14:36 3574 Nov 23 03:26 3574 Nov 24 04:24 3574 Nov 24 04:24 3574 Nov 24 05:44 3574 Nov 25 22:37 3574 Nov 29 23:00 3574 Dec 10 00:41 3574 Dec 12 03:02 3575 Jan 01 16:13	11° ብ42'28 16° ብ24'18 27° ብ29'22 0° ሙ 0° 요 1° 요13'40 18° 요32'34 25° 요49'46 23° 요11'14 19° 요55'54 17° 요19'09 17° 요06'21 11° 요28'37 11° 요29'04 14° 요53'47 0° ጤ 10° ጤ30'38 0° Ґ 1° Ґ 42'28 1° Ґ 47'52 1° Ґ 20'30 2° Ґ 15'12 4° Ґ 34'27 11° Ґ 01'51 26° Ґ 46'55 0° ጜ 0° ≈	1°30'03 1.33195 AU 27°25'36 0.63804 AU -3°02'01 3°00'17 17°52'22 0°12'07 0°11'56

asc. node	3575 Jan 15 14:50	11° ≈ 30'10			3575 Dec 05 10:46	0°₹	
evening set	3575 Jan 19 08:56	11 ≈30 10 10°≈02'05		evening max el	3575 Dec 03 10:40 3575 Dec 21 04:18	0 3 20°る15'04	21°48'07
•	3575 Jan 24 17:51	3°≈53'11	2°42'45	•	3575 Dec 21 04:18 3575 Dec 30 08:11	20 3 13 04 25° 3 42'09	21 4007
inferior conj				retrograde			
minimum elong	3575 Jan 24 15:21	4°≈01'46	2°42'05	asc. node	3576 Jan 02 11:52	24°₹48'19	
min. Earth dist.	3575 Jan 25 08:12	3°≈04'11	0.67464 AU	evening set	3576 Jan 03 16:39	23° る 58'25	200.412.0
	3575 Jan 27 16:45	30°Rる		inferior conj	3576 Jan 09 00:57	17°る40'16	2°04'38
morning rise	3575 Jan 29 21:35	27°₹39'44		minimum elong	3576 Jan 08 22:37	17°₹48'23	2°03'51
direct	3575 Feb 04 10:57	25° ප 11'51		min. Earth dist.	3576 Jan 09 03:24	17° る 31'49	0.67892 AU
	3575 Feb 13 16:25	0° ≈		morning rise	3576 Jan 14 04:25	11° る 28'29	
morning max el	3575 Feb 15 15:12	1° ≈ 52'12	24°18'45	direct	3576 Jan 19 02:56	9° පි 21'46	
desc. node	3575 Feb 21 21:50	8°≈59'42		morning max el	3576 Jan 29 00:57	15° る 14'15	22°49'41
	3575 Mar 08 23:31	0° ∀		desc. node	3576 Feb 08 18:52	28° る 16'05	
morning set	3575 Mar 23 11:40	23° ∺ 35′50			3576 Feb 10 01:19	0° ≈	
max. Earth dist.	3575 Mar 27 04:16	0° Υ 08'18	1.37842 AU		3576 Feb 29 23:34	0° ∀	
	3575 Mar 27 02:25	0 ° Υ		morning set	3576 Mar 03 09:03	3° ¥ 55'22	
				max. Earth dist.	3576 Mar 07 23:25	11°)(39'44	1.40011 AU
superior conj	3575 Apr 03 03:40	13° Ƴ 08'19	-1°32'34				
minimum elong	3575 Apr 03 08:12	13° Ƴ 30′05	1°32'00	superior conj	3576 Mar 15 17:43	25° ∺ 23'53	-1°54'06
evening rise	3575 Apr 11 21:54	0° 8 21'26		minimum elong	3576 Mar 15 22:01	25°) 43′28	1°53'46
	3575 Apr 11 17:34	8°			3576 Mar 18 05:41	0 ° Υ	
asc. node	3575 Apr 13 14:09	3° 8 39'31		evening rise	3576 Mar 25 12:39	13° Ƴ 46'45	
evening max el	3575 Apr 28 12:51	27° 8 17'11	19°06'03	asc. node	3576 Mar 30 11:11	23° Y 02'53	
	3575 May 01 23:53	$\Pi^{\circ}0$			3576 Apr 03 10:43	0°8	
retrograde	3575 May 07 07:38	1° Ⅱ 33'47		evening max el	3576 Apr 10 16:55	9° 8 45'14	18°27'37
evening set	3575 May 09 09:22	1° Ⅱ 20′28		retrograde	3576 Apr 18 05:28	13° 8 28'04	
Č	3575 May 13 00:33	30°R ∀		evening set	3576 Apr 20 13:39	13° 8 07'34	
inferior conj	3575 May 17 15:35	27° 8 07'50	0°55'33	inferior conj	3576 Apr 28 00:14	8° 8 35'48	2°18'56
minimum elong	3575 May 17 17:45	27° 8 04'06	0°54'47	minimum elong	3576 Apr 28 04:00		2°17'55
min. Earth dist.	3575 May 20 15:18	25° 8 05'26	0.56490 AU	min. Earth dist.	3576 May 01 10:43	5° 8 51'27	0.58376 AU
desc. node	3575 May 20 21:04	24° 8 55'59	0.50150710	morning rise	3576 May 05 15:15	3° 8 08'15	0.50570710
morning rise	3575 May 25 22:59	22° 8 12'25		desc. node	3576 May 05 13:13	2° 8 36'58	
direct	3575 May 31 00:09	21° 8 12'41		direct	3576 May 11 15:15	1° 8 34'45	
morning max el	3575 Jun 14 06:29	28° 8 32'26	25027122	morning max el	3576 May 26 00:41	9° 8 17'04	26°55'32
morning max ci	3575 Jun 15 17:33	28 O 32 20 0° I I	25 51 25	morning max ci	3576 Jun 10 19:29	9°Ⅱ 0°Ⅱ	20 33 32
	3575 Jul	0°©		marning act	3576 Jun 25 00:13	26° ∏ 29'09	
aga mada				morning set asc. node		20 H2909 29°H30'28	
asc. node	3575 Jul 10 13:25	9°930'57		asc. node	3576 Jun 26 10:27	29° Щ 3028	
morning set	3575 Jul 11 14:25	11°942'11			3576 Jun 26 15:59	0.50	
	2575 L.1 10 12.17	2696749141	1015115		2576 Int. 02 01:06	110644157	0056100
superior conj	3575 Jul 18 13:17		1°15'15	superior conj	3576 Jul 02 01:06	11°5944'57	
minimum elong	3575 Jul 18 10:56	26°935'46		minimum elong	3576 Jul 01 22:59	11°533'17	
max. Earth dist.	3575 Jul 19 12:38	28°956'39	1.32434 AU	max. Earth dist.	3576 Jul 01 23:59	11°538'48	1.32081 AU
	3575 Jul 20 00:13	0°N		evening rise	3576 Jul 08 21:49	26° © 39'49	
evening rise	3575 Jul 25 14:31	11° Ω 57'05			3576 Jul 10 12:12	0°N	
	3575 Aug 03 23:08	0° m)			3576 Jul 27 13:42	0° m)	
desc. node	3575 Aug 16 20:24	20° m 07'05		desc. node	3576 Aug 02 17:24	8° m 03'32	
	3575 Aug 25 05:10	0∘ ⊽		evening max el	3576 Aug 07 13:57	13° Mp 14'16	26°35'21
evening max el	3575 Aug 26 11:52	1° ≏ 14'58	27°17'08	retrograde	3576 Aug 21 12:59	20° m/25'12	
retrograde	3575 Sep 09 07:41	8° £ 29'41		evening set	3576 Aug 28 06:53	18° m 30'15	
evening set	3575 Sep 16 11:40	6° Ω 06'19		min. Earth dist.	3576 Sep 01 03:39	15° m 54'19	
min. Earth dist.	3575 Sep 20 02:09	3° £ 17'33		inferior conj	3576 Sep 04 10:05	13° Mp 17'55	
inferior conj	3575 Sep 23 02:23	0° £ 32'56		minimum elong	3576 Sep 04 14:59	13° m 08'07	4°43'08
minimum elong	3575 Sep 23 08:12	0° ≏ 19'37	3°56'52	morning rise	3576 Sep 12 01:09	8° Mp 39'20	
	3575 Sep 23 16:50	30°₽, MD		direct	3576 Sep 14 10:24	8° Mp 18′29	
morning rise	3575 Sep 30 06:27	25° m 32'30		morning max el	3576 Sep 22 00:19	12° Mp 00'30	18°13'40
direct	3575 Oct 02 15:31	25° Mp 08'05		asc. node	3576 Sep 22 09:39	12°M 23'33	
asc. node	3575 Oct 06 12:37	26° Mp 15′22			3576 Oct 04 00:34	0∘ ত	
morning max el	3575 Oct 09 13:02	28° Mp 37'15	17°53'22	morning set	3576 Oct 07 21:07	7° £ 13′04	
	3575 Oct 10 20:17	0∘ ⊽					
morning set	3575 Oct 25 10:30	23° ჲ 30′56		superior conj	3576 Oct 17 07:14	24° ≏ 48'04	1°19'16
	3575 Oct 29 00:46	0°M₊		minimum elong	3576 Oct 17 11:10	25° ჲ 05'54	1°18'51
					3576 Oct 20 04:52	0° M.	
superior conj	3575 Nov 05 05:24	12°M39'07	0°51'16	max. Earth dist.	3576 Oct 24 21:48	8°M09'32	1.41104 AU
minimum elong	3575 Nov 05 09:26	12°M56'28	0°50'43	evening rise	3576 Oct 29 19:11	16°M17'42	
max. Earth dist.	3575 Nov 12 13:04	24°M55'03	1.42952 AU	desc. node	3576 Oct 29 16:42	16°M07'37	
desc. node	3575 Nov 12 19:40	25°M21'58			3576 Nov 07 12:04	0°⊀	
	3575 Nov 15 16:28	0°⊀			3576 Nov 29 07:12	ರ°0	
evening rise	3575 Nov 19 13:26	6° ≯ 08'10		evening max el	3576 Dec 02 20:12	3° る 50'29	23°07'00
-				-			

retrograde	3576 Dec 13 02:49	9° ප 55'52		evening max el	3577 Nov 15 09:24	17° × 129'58	24°26'27
evening set	3576 Dec 17 23:31	7° る 55'58		retrograde	3577 Nov 26 17:41	24° х 07′53	
asc. node	3576 Dec 19 08:53	6° ප 36'40		evening set	3577 Dec 02 03:59	21° ₹ '51'58	
inferior conj	3576 Dec 23 08:43	1° る 32'21	1°19'31	asc. node	3577 Dec 06 05:54	17° ∡ 18'30	
minimum elong	3576 Dec 23 07:00	1° る 38'17	1°18'50	min. Earth dist.	3577 Dec 06 20:05	16° ∡ ³31'37	0.67664 AU
min. Earth dist.	3576 Dec 23 00:09	2° る 01'53	0.67954 AU	inferior conj	3577 Dec 07 15:22	15° ∡ 127′04	0°28'30
	3576 Dec 24 11:45	30°R. ✓		minimum elong	3577 Dec 07 14:41	15° ∡ ¹29'22	0°28'12
morning rise	3576 Dec 28 14:22	25° ≯ 24'11		morning rise	3577 Dec 13 01:26	9° ∡ 724'42	
direct	3577 Jan 01 22:27	23° х 40′16		direct	3577 Dec 16 20:16	8° ∡ 102'42	
morning max el	3577 Jan 10 15:24	28° ҂ 44'33	21°25'00	morning max el	3577 Dec 24 13:21	12° ∡ ¹26'32	20°11'02
	3577 Jan 11 20:22	0°ප			3578 Jan 07 00:19	0°ಕ	
desc. node	3577 Jan 25 15:55	18° る 03'16		desc. node	3578 Jan 12 12:57	8° る 12'49	
	3577 Feb 02 17:42	0° ≈		morning set	3578 Jan 20 22:55	21°る03'20	
morning set	3577 Feb 11 01:31	12°≈53'04			3578 Jan 26 16:36	0° ≈	
max. Earth dist.	3577 Feb 17 23:55	24°≈04'14	1.42085 AU	max. Earth dist.	3578 Jan 31 08:43	7° ≈ 24'58	1.43773 AU
	3577 Feb 21 13:22	0°) €			2570 F. L. 06 02 00	160 - 46117	2002122
	2555 E 1 25 11 00	(a) V a a la (2007100	superior conj	3578 Feb 06 03:09	16°≈46'17	
superior conj	3577 Feb 25 11:00	6° ¥ 39′26		minimum elong	3578 Feb 05 23:20	16°≈30'37	2°03'14
minimum elong	3577 Feb 25 12:37	6°) 46′26 26°) 31′24	2°06'06		3578 Feb 14 00:43	0° ∺ 8° ∺ 27'38	
evening rise	3577 Mar 08 14:21 3577 Mar 10 12:13	20° π 31′24 0° Υ		evening rise	3578 Feb 18 22:46 3578 Mar 03 21:58	8°π2/38 0° Υ	
asc. node	3577 Mar 10 12.13 3577 Mar 17 08:12	0 γ 12° Υ 00'51		asc. node	3578 Mar 04 05:14	0 1 0° Υ 26'01	
evening max el	3577 Mar 25 02:50	12 γ 00 31 22° γ 39'42	18°09'00	evening max el	3578 Mar 08 15:22	5° Υ 52'24	18°09'41
retrograde	3577 Mar 31 20:55	26°Υ05'10	18 09 00	retrograde	3578 Mar 15 01:59	9° Υ 15'47	16 0941
evening set	3577 Apr 03 11:31	25° Υ 34'59		evening set	3578 Mar 17 22:21	8° Υ 34'34	
inferior conj	3577 Apr 10 05:17	20° Υ 42'18	3°10'09	inferior conj	3578 Mar 24 03:16		3°34'05
minimum elong	3577 Apr 10 03:17	20° Υ 35'37	3°09'38	minimum elong	3578 Mar 24 04:21	3°Υ18'45	3°34'00
min. Earth dist.	3577 Apr 10 00:07	17° Υ 39'50	0.60545 AU	min. Earth dist.	3578 Mar 26 21:59	0° Υ 25'32	0.62667 AU
morning rise	3577 Apr 17 02:39	14° Y 52'37	0.000 10 110	mm. zarm dige.	3578 Mar 27 08:08	30°R) €	0.02007110
direct	3577 Apr 23 18:18	12° Y '44'03		morning rise	3578 Mar 30 09:09	27°) 18'45	
desc. node	3577 Apr 23 15:06	12° Υ 44'06		direct	3578 Apr 06 06:43	24°) (43'19	
morning max el	3577 May 08 00:55	20° Ƴ 37'54	27°41'31	desc. node	3578 Apr 10 12:07	25°) €34'58	
C	3577 May 16 02:44	0° ႘			3578 Apr 17 09:36	0°Υ	
	3577 Jun 03 17:11	0°Ⅱ		morning max el	3578 Apr 20 06:56	2° Y 41'02	27°50'02
morning set	3577 Jun 09 06:28	11° Ⅱ 02'32		C	3578 May 10 12:06	$0^{\circ}S$	
asc. node	3577 Jun 13 07:29	19° Ⅱ 36'17		morning set	3578 May 24 07:05	25° 8 16'08	
max. Earth dist.	3577 Jun 15 11:12	24° Ⅱ 17'42	1.32130 AU		3578 May 26 14:29	$\Pi^{\circ}0$	
				max. Earth dist.	3578 May 29 18:30	6° Ⅱ 41'20	1.32595 AU
superior conj	3577 Jun 16 12:19	26° ∏ 35′28	0°33'08	asc. node	3578 May 31 04:32	9° Ⅱ 44'20	
minimum elong	3577 Jun 16 10:53	26° Ⅱ 27'37	0°32'50				
	3577 Jun 18 01:31	0 \circ \odot		superior conj	3578 May 31 21:15	11° Ⅱ 14'49	0°07'19
evening rise	3577 Jun 23 08:18	11° 5 28'53		minimum elong	3578 May 31 20:54	11° Ⅱ 12'56	0°07'15
	3577 Jul 02 18:06	0 $^{\circ}\Omega$		behind sun begin	3578 May 31 16:14	10° Ⅱ 47'38	
evening max el	3577 Jul 20 08:44	24° Ω 25'35	25°23'18	behind sun end	3578 Jun 01 01:34	11° Ⅱ 38'15	
desc. node	3577 Jul 20 14:24	24° Ω 39'00		evening rise	3578 Jun 07 20:06	26° Ⅱ 18′02	
	3577 Jul 28 01:22	0° m/y			3578 Jun 09 14:21	0°©	
retrograde	3577 Aug 03 08:12	1° Mp 31'17			3578 Jun 27 09:19	0° Ω	22051112
evening set	3577 Aug 09 02:58 3577 Aug 09 15:13	0° Mp 13'48 30° RΩ		evening max el desc. node	3578 Jul 01 22:12 3578 Jul 07 11:24	4° Ω 59'25 9° Ω 22'22	25-51-13
min Forth dist	•		0.57907 AII				
min. Earth dist. inferior conj	3577 Aug 13 20:39 3577 Aug 16 23:16	$25^{\circ} \Omega 23'59$	0.57897 AU -5°07'28	retrograde evening set	3578 Jul 15 15:23 3578 Jul 19 23:51	11° Ω 53'01 11° Ω 11'17	
minimum elong	3577 Aug 16 23:16 3577 Aug 17 00:24	$25^{\circ} \Omega 22'00$		min. Earth dist.	3578 Jul 19 23:31 3578 Jul 26 08:29		0.56165 AU
morning rise	3577 Aug 17 00:24 3577 Aug 25 00:09	23 δ 222 00 21° Ω 08'02	3 07 20	inferior conj	3578 Jul 28 16:09	6° Ω 44'10	
direct	3577 Aug 27 12:49	21° Ω 48'35		minimum elong	3578 Jul 28 10:09 3578 Jul 28 11:24	6° Ω 51'26	
morning max el	3577 Sep 05 04:00	24° Ω 53'39	18°54'47	morning rise	3578 Aug 06 01:31	2° Ω 47'10	7 33 23
asc. node	3577 Sep 09 04:00 3577 Sep 09 06:42	29° Ω 38'16	10 0117	direct	3578 Aug 08 19:54	2°Ω27'40	
use. Houe	3577 Sep 09 13:05	0° m)		morning max el	3578 Aug 18 21:16	7° Ω 07'48	19°57'39
morning set	3577 Sep 21 18:00	21° m)24'39		asc. node	3578 Aug 27 03:45	17° Ω 45'08	
C	3577 Sep 26 02:41	0∘ <u>v</u>			3578 Sep 02 22:30	0° m)	
				morning set	3578 Sep 05 21:54	5° m 56'37	
superior conj	3577 Sep 30 04:38	7° ჲ 54'31	1°36'19	Č	•		
minimum elong	3577 Sep 30 07:06	8° ഫ 06'18	1°36'09	superior conj	3578 Sep 13 16:24	21° Mp 43'46	1°43'53
max. Earth dist.	3577 Oct 07 02:46	20° ≏ 42'28	1.39038 AU	minimum elong	3578 Sep 13 17:09	21° m 47'29	1°43'52
evening rise	3577 Oct 11 00:09	27° ≙ 31'03		-	3578 Sep 17 21:38	0∘ ⊽	
	3577 Oct 12 11:10	0° M.		max. Earth dist.	3578 Sep 19 08:05	2° ≏ 44'01	1.37005 AU
desc. node	3577 Oct 16 13:44	6°M47'34		evening rise	3578 Sep 23 03:24	9° ≏ 46′08	
	3577 Nov 01 00:52	0°⊀		desc. node	3578 Oct 03 10:44	27° ≏ 17'22	

	3578 Oct 05 03:53	0° M .			3579 Sep 28 20:35	0° M	
	3578 Oct 27 17:03	0° × 7		evening max el	3579 Oct 11 10:01	14°M50'45	26°38'24
evening max el	3578 Oct 28 21:39	1° × ⁷ 11'34	25°39'24	retrograde	3579 Oct 24 09:17	22°M05'28	20 30 2 1
retrograde	3578 Nov 10 04:01	8°×12'58	20 37 2 .	evening set	3579 Oct 30 22:37	19°M25'47	
evening set	3578 Nov 16 04:19	5° ∡ 142'56		min. Earth dist.	3579 Nov 04 00:08	15°M16'15	0.66054 AU
min. Earth dist.	3578 Nov 20 12:49	0° ∡ 757'35	0.67033 AU	inferior conj	3579 Nov 05 18:00	13°M11'37	
	3578 Nov 21 06:55	30°RM		minimum elong	3579 Nov 05 20:23	13°M04'32	1°25'36
inferior conj	3578 Nov 21 19:06	29°M21'04	-0°27'21	asc. node	3579 Nov 09 24:00	8° M 41'57	
minimum elong	3578 Nov 21 19:48	29°M18'49	0°27'02	morning rise	3579 Nov 11 18:50	7°M28'19	
asc. node	3578 Nov 23 02:57	27°M41'05		direct	3579 Nov 14 16:37	6°M41'05	
morning rise	3578 Nov 27 11:38	23°M26'58		morning max el	3579 Nov 21 07:15	10°ML17'18	18°27'10
direct	3578 Nov 30 18:55	22°M24'11			3579 Dec 05 06:21	0°⊀	
morning max el	3578 Dec 07 19:10	26°M18'47	19°11'10	morning set	3579 Dec 11 04:16	9° ∡ 28'18	
	3578 Dec 11 01:20	0° ∡ ¹		desc. node	3579 Dec 17 07:01	19° ∡ 14'09	
desc. node	3578 Dec 30 09:58	28° ∡ ³37'51			3579 Dec 24 02:28	8°0	
morning set	3578 Dec 31 01:04	29° ∡ ³36'33					
	3578 Dec 31 07:06	0°ರ		superior conj	3579 Dec 26 20:44	4° පි 20'21	-1°02'08
max. Earth dist.	3579 Jan 13 23:58	21° る 25'07	1.44862 AU	minimum elong	3579 Dec 26 13:07	3° る 50'27	1°01'11
				max. Earth dist.	3579 Dec 27 18:22	5° る 45'11	1.45242 AU
superior conj	3579 Jan 16 18:26	25° る 47'48	-1°41'35	evening rise	3580 Jan 11 21:22	29° る 31'16	
minimum elong	3579 Jan 16 09:41	25° る 13'10	1°40'50		3580 Jan 12 04:39	0° ≈	
	3579 Jan 19 09:51	0° ≈		greatest brilliancy	3580 Jan 21 17:47	15° ≈ 02'03	-0.8m
evening rise	3579 Jan 31 09:43	19° ≈ 27'43			3580 Feb 01 03:07	0° ∀	
	3579 Feb 06 19:11	0° ∀		evening max el	3580 Feb 03 13:10	2°) 44′05	19°06'12
asc. node	3579 Feb 19 02:16	18°) 07′44		asc. node	3580 Feb 05 23:18	4° ∺ 53'36	
evening max el	3579 Feb 20 03:35	19° ∺ 15'31	18°29'06	retrograde	3580 Feb 10 11:36	6°) 40′20	
retrograde	3579 Feb 26 16:10	22°) 49'51		evening set	3580 Feb 13 20:16	5°) 34'37	
evening set	3579 Mar 01 18:16	21° ¥ 56'49		inferior conj	3580 Feb 19 09:58	29° ≈ 46'48	3°25'04
inferior conj	3579 Mar 07 14:02	16° ∺ 25'23	3°37'19	minimum elong	3580 Feb 19 08:12	29° ≈ 52′24	3°24'50
minimum elong	3579 Mar 07 13:27	16° ∺ 27'05	3°37'18		3580 Feb 19 05:49	30°R ≈	
min. Earth dist.	3579 Mar 09 17:29	13° ¥ 54′21	0.64516 AU	min. Earth dist.	3580 Feb 20 22:04	27°≈52'06	0.65986 AU
morning rise	3579 Mar 13 08:01	10°) 15′27		morning rise	3580 Feb 24 19:48	23°≈33'43	
direct	3579 Mar 20 03:01	7° ∺ 26′09		direct	3580 Mar 02 06:04	20°≈44'10	
desc. node	3579 Mar 28 09:09	10°) 42′08	25020111	desc. node	3580 Mar 14 06:11	27°≈30'59	26025145
morning max el	3579 Apr 02 16:23	15° ¥ 19'37	27°22'41	morning max el	3580 Mar 15 02:20	28°≈20'54	26°25'45
	3579 Apr 14 16:54	0°Υ			3580 Mar 16 16:20	0° ∀ 0° Υ	
	3579 May 03 05:12	0°8		. ,	3580 Apr 07 11:10		
morning set	3579 May 07 23:24	9° 8 01'55 18° 8 38'01	1 22404 ATT	morning set	3580 Apr 20 03:51	22° Y 09'07	
max. Earth dist.	3579 May 12 17:55	18.038.01	1.33494 AU	may Earth dist	3580 Apr 24 05:46 3580 Apr 24 06:08	0°8 0°801'50	1.34855 AU
superior conj	3579 May 16 01:59	25° 8 37'15	0°20'27	max. Earth dist.	3380 Apr 24 00.08	0 001 30	1.34833 AU
minimum elong	3579 May 16 01:39 3579 May 16 03:02	25° 8 42'50		superior conj	3580 Apr 29 00:12	9° 8 35'52	0°40'20
asc. node	3579 May 18 01:35	23° 8 50'44	0 2023	minimum elong	3580 Apr 29 00:12 3580 Apr 29 02:49	9° 8 49'18	
asc. Houc	3579 May 18 01:33 3579 May 18 03:19	0°Ⅱ		asc. node	3580 Apr 29 02:49 3580 May 03 22:38	19° 8 51'11	0 49 00
evening rise	3579 May 10 03:17 3579 May 23 07:22	11° I I01'12		evening rise	3580 May 05 22:36 3580 May 06 16:06	25° 8 31'51	
e vening rise	3579 Jun 02 02:56	0°9		evening rise	3580 May 08 20:31	0° I I	
evening max el	3579 Jun 13 13:11	15°525'04	22°14'42	evening max el	3580 May 25 13:17	26° Ⅱ 14'15	20°47'29
desc. node	3579 Jun 24 08:24	21°938'55			3580 May 30 10:32	0.ಪ	_, ., _,
retrograde	3579 Jun 26 10:54	21°5549'09		retrograde	3580 Jun 05 23:50	1° © 49'35	
evening set	3579 Jun 29 08:56	21°930'16		evening set	3580 Jun 08 02:09	1°539'04	
min. Earth dist.	3579 Jul 07 19:13		0.55072 AU	desc. node	3580 Jun 10 05:26	1° © 08'05	
inferior conj	3579 Jul 08 16:01	17°523'03			3580 Jun 13 02:02	30°Ŗ Ⅱ	
minimum elong	3579 Jul 08 07:39	17° 5 34'52	3°49'08	inferior conj	3580 Jun 17 09:27	27° Ⅱ 41'41	-2°05'31
morning rise	3579 Jul 17 08:16	13° © 32'18		minimum elong	3580 Jun 17 03:36	27° I I50'02	2°03'28
direct	3579 Jul 20 10:15	13° © 11'00		min. Earth dist.	3580 Jun 18 07:13	27° Ⅱ 10′37	
morning max el	3579 Aug 01 02:54	18° 5 37'59	21°21'04	morning rise	3580 Jun 26 04:37	23° Ⅱ 37'10	
-	3579 Aug 10 04:01	$0^{\circ}\Omega$		direct	3580 Jun 29 19:33	23° Ⅱ 08'53	
asc. node	3579 Aug 14 00:49	6° Ω 31'58		morning max el	3580 Jul 12 22:25	29° Ⅱ 27'04	22°59'36
morning set	3579 Aug 21 06:22	20° Ω 42'13			3580 Jul 13 12:14	0 \circ \odot	
	3579 Aug 25 16:49	0° m		asc. node	3580 Jul 30 21:52	25° © 48'11	
					3580 Aug 02 00:36	$0^{\circ}\Omega$	
superior conj	3579 Aug 28 14:22	6° Mp 03′41	1°43'34	morning set	3580 Aug 04 17:21	5° Ω 34'39	
minimum elong	3579 Aug 28 13:38	5° m 59'53	1°43'33				
max. Earth dist.	3579 Sep 01 18:51	14° m 35'58	1.35220 AU	superior conj	3580 Aug 11 19:09	20° Ω 43′03	1°36'45
evening rise	3579 Sep 06 01:00	22° m 53'33		minimum elong	3580 Aug 11 17:23	20° Ω 33'41	1°36'36
	3579 Sep 09 21:12	0∘ ⊽		max. Earth dist.	3580 Aug 14 14:20	26° Ω 38'42	1.33813 AU
desc. node	3579 Sep 20 07:46	17° ≙ 31'45			3580 Aug 16 05:07	0° ™	

evening rise	3580 Aug 19 12:27	6° Mp 40'28			3581 Jul 24 15:02	$0^{\circ}\Omega$	
	3580 Sep 01 11:25	0∘ ⊽					
desc. node	3580 Sep 06 04:47	7° ≏ 22'46		superior conj	3581 Jul 27 04:13	5° Ω 34'00	1°24'28
evening max el	3580 Sep 22 22:16	28° ≏ 18′07	27°16'12	minimum elong	3581 Jul 27 01:56	5° Ω 21'35	1°24'10
	3580 Sep 24 19:05	0°M₊		max. Earth dist.	3581 Jul 28 18:26	9° Ω 01'33	1.32824 AU
retrograde	3580 Oct 06 08:55	5°M36'34		evening rise	3581 Aug 03 09:55	20° Ω 56′07	
evening set	3580 Oct 13 08:26	2°M54'54			3581 Aug 08 00:01	0° ™	
	3580 Oct 16 12:43	30° ₹ Ω		desc. node	3581 Aug 24 01:48	26° Mp 40'40	
min. Earth dist.	3580 Oct 17 03:46	29° ഫ 20'30	0.64719 AU		3581 Aug 26 11:55	0∘ ⊽	
inferior conj	3580 Oct 19 09:47	26° ≙ 53'14	-2°27'25	evening max el	3581 Sep 05 08:44	11° ≏ 21'23	27°26'05
minimum elong	3580 Oct 19 13:53	26° £ 42'01	2°25'51	retrograde	3581 Sep 19 01:58	18° ≏ 37'22	
morning rise	3580 Oct 25 20:26	21° ≏ 23'46		evening set	3581 Sep 26 06:33	16° ≏ 04'04	
asc. node	3580 Oct 26 21:03	21° ≏ 01'21		min. Earth dist.	3581 Sep 29 21:44	13° ≏ 00'55	0.63054 AU
direct	3580 Oct 28 11:09	20° ≏ 48'06		inferior conj	3581 Oct 02 15:42	10° ≏ 19'28	
morning max el	3580 Nov 03 22:59	24° ≙ 15'13	18°00'00	minimum elong	3581 Oct 02 21:11	10° Ω 06'02	3°25'03
	3580 Nov 08 15:15	0° M ₊		morning rise	3581 Oct 09 13:15	5° Ω 07'10	
morning set	3580 Nov 21 12:51	20°M47'06		direct	3581 Oct 11 23:35	4° ≏ 39'28	
	3580 Nov 27 01:40	0° ∡ ¹		asc. node	3581 Oct 13 18:07	4° £ 54'33	
desc. node	3580 Dec 03 04:05	9° ∡ 57'32		morning max el	3581 Oct 18 15:25	8° Ω 05'33	17°50'27
		_			3581 Nov 02 01:08	0°M	
superior conj	3580 Dec 05 06:47	13° ∡ ′21'19		morning set	3581 Nov 03 21:45	3°M16'04	
minimum elong	3580 Dec 05 05:02	13° ∡ 14'15	0°14'12				
behind sun begin	3580 Dec 04 23:56	12° ∡ 53'51		superior conj	3581 Nov 15 16:06	23°M31'36	0°30'00
behind sun end	3580 Dec 05 10:07	13° ∡ ³34'39 −		minimum elong	3581 Nov 15 19:00	23°M43'42	0°29'35
max. Earth dist.	3580 Dec 09 13:15	20° ∡ ′08'31	1.44879 AU		3581 Nov 19 14:14	0° ∡ ¹	
	3580 Dec 15 20:16	0°ਰ		desc. node	3581 Nov 20 01:07	0° ∡ ¹44'19 −	
evening rise	3580 Dec 21 13:42	8° る 51'53		max. Earth dist.	3581 Nov 22 06:06	4° ∤ 18'44	1.43827 AU
	3581 Jan 04 11:26	0° ≈		evening rise	3581 Nov 30 23:00	18° ∡ '01'23	
greatest brilliancy	3581 Jan 04 18:58	0° ≈ 27'52	-0.6m		3581 Dec 08 19:51	0°る	
evening max el	3581 Jan 16 18:21	16°≈15'34	19°59'15		3581 Dec 30 22:49	0° ≈	
asc. node	3581 Jan 22 20:19	20°≈29'26		evening max el	3581 Dec 30 18:05	29° る 47'59	21°05'32
retrograde	3581 Jan 24 09:22	20°≈42'24		retrograde	3582 Jan 08 07:11	4°≈51'42	
evening set	3581 Jan 28 01:59	19°≈22'51	2001100	asc. node	3582 Jan 09 17:21	4°≈40'36	
inferior conj	3581 Feb 02 12:05	13°≈21'05	3°01'00	evening set	3582 Jan 12 09:27	3°≈17'00	
minimum elong	3581 Feb 02 09:41	13°≈29'05	3°00'29		3582 Jan 15 13:15	30°Rる	2027122
min. Earth dist.	3581 Feb 03 10:00	12°≈07'37	0.67044 AU	inferior conj	3582 Jan 17 17:56	27°る04'00	
morning rise	3581 Feb 07 17:10	7°≈07'17		minimum elong	3582 Jan 17 15:26	27° る 12'37	
direct	3581 Feb 13 14:53	4°≈28'56	25000124	min. Earth dist.	3582 Jan 18 03:05	26° る 32'26	0.67697 AU
morning max el	3581 Feb 25 11:10	11°≈33'34	25°08'24	morning rise	3582 Jan 22 21:14	20°る51'14	
desc. node	3581 Mar 01 03:15	15° ≈ 32'58 0° ∀		direct	3582 Jan 28 04:26	18° පි 31'47 24° පි 51'45	22940140
	3581 Mar 12 05:28	0 Υ 0° Υ		morning max el	3582 Feb 07 19:41	24 O 3143 0° ≈	23 40 49
marning sat	3581 Mar 31 03:59	0° γ 4° Υ 23'56		desc. node	3582 Feb 12 10:47 3582 Feb 16 00:18	0°≈ 4°≈26'29	
morning set max. Earth dist.	3581 Apr 02 15:38 3581 Apr 06 07:13	4 1 23 36 11° Υ 04'04	1.36655 AU	desc. node	3582 Feb 16 00.18 3582 Mar 05 17:14	4 ≈20 29 0° H	
max. Earm dist.	3381 Apr 00 07.13	11 10404	1.30033 AU	morning set	3582 Mar 15 04:38	15° ¥ 29'03	
superior conj	3581 Apr 12 13:03	23° Y '02'56	1017'38	max. Earth dist.	3582 Mar 19 02:31	22°) 15'45	1.38764 AU
minimum elong	3581 Apr 12 17:04	23° Υ 22'45		max. Earth dist.	3582 Mar 23 09:48	0° Υ	1.38704 AU
minimum ciong	3581 Apr 16 00:39	0° 8	1 17 01		3362 Wai 23 07.46	0 1	
evening rise	3581 Apr 20 20:04	9° 8 43'29		superior conj	3582 Mar 26 12:42	5° Ƴ 47'38	-1°42'34
asc. node	3581 Apr 20 19:40	9° 8 41'29		minimum elong	3582 Mar 26 17:21		1°42'04
use. Houe	3581 May 01 22:00	0°II		evening rise	3582 Apr 04 16:32	23° Y 27'48	1 1201
evening max el	3581 May 08 01:37		19°37'24	asc. node	3582 Apr 07 16:41	29° Υ 16'03	
retrograde	3581 May 17 18:08	12° Ⅱ 25'40	17 37 21	use. Houe	3582 Apr 08 01:56	0°8	
evening set	3581 May 19 17:38	12° Ⅱ 14'46		evening max el	3582 Apr 21 00:45	19° 8 51'27	18°47'12
inferior conj	3581 May 28 11:01	8° I 11'18	-0°06'18	retrograde	3582 Apr 29 04:59	23° 8 51'24	10 17 12
minimum elong	3581 May 28 10:45	8° I 11'44		evening set	3582 May 01 09:32	23° 8 35'17	
transit middle	3581 May 28 10:45	8° Ⅱ 11'44		inferior conj	3582 May 09 07:11	19° 8 14'41	1°34'57
transit begin	3581 May 28 07:08	8° I 17'26	-	minimum elong	3582 May 09 10:26	19° 8 08'44	1°33'55
transit end	3581 May 28 14:22	8° I 106'02		min. Earth dist.	3582 May 12 13:28	16° 8 52'16	0.57243 AU
desc. node	3581 May 28 02:26	8° Ⅱ 24'48		desc. node	3582 May 14 23:28	15° 8 18'11	3.5,213710
min. Earth dist.	3581 May 30 21:00	6° Ⅱ 40'15	0.55670 AU	morning rise	3582 May 17 08:09	14° 8 05'02	
morning rise	3581 Jun 06 01:18	3° I I36'39		direct	3582 May 22 19:44	12° 8 51'51	
direct	3581 Jun 10 12:59	2° I 51'38		morning max el	3582 Jun 06 03:57	20° 8 21'46	26°13'57
morning max el	3581 Jun 24 12:40		24°42'16	morning max or	3582 Jun 14 10:34	0°Π	20 13 3 1
morning max or	3581 Jul 09 13:53	0°99	21 1210		3582 Jul 14 10:34 3582 Jul 02 02:24	0°ಅ	
asc. node	3581 Jul 17 18:56	15° 5 26'09		morning set	3582 Jul 02 02:24 3582 Jul 04 16:08	5° © 19'57	
morning set	3581 Jul 20 05:08	20°\$28'59		asc. node	3582 Jul 04 15:59	5° © 19'09	
	20 00.00				3222201 07 10.07		

superior conj	3582 Jul 11 15:30	20°529'38	1°07'33		3583 Jun 23 16:18	0°ಅ	
minimum elong	3582 Jul 11 13:12	20°©16'55	1°07'10	max. Earth dist.	3583 Jun 25 16:09	4°522'44	1.32052 AU
max. Earth dist.	3582 Jul 12 04:16	21° © 39'53	1.32239 AU				
	3582 Jul 15 23:58	0 $^{\circ}$ Ω		superior conj	3583 Jun 26 03:15	5° © 23'54	0°46'41
evening rise	3582 Jul 18 14:21	5° Ω 31′00		minimum elong	3583 Jun 26 01:23	5° © 13'33	0°46'19
	3582 Jul 31 14:53	0° m/		evening rise	3583 Jul 02 23:14	20°517'02	
desc. node	3582 Aug 10 22:48	15° Mp 12'01	27002127		3583 Jul 07 17:09	0° N	
evening max el	3582 Aug 18 14:37 3582 Aug 27 15:02	23° ™ 47'01 0° ⊆	27°03'27	desc. node	3583 Jul 26 12:49 3583 Jul 28 19:47	0° Т ұ 2° Т ұ37'16	
retrograde	3582 Aug 27 13:02 3582 Sep 01 11:39	0° ⊆ 59'15		evening max el	3583 Jul 28 19.47 3583 Jul 31 13:27	5° Mp 24'58	26°07'55
retrograde	3582 Sep 01 11:39 3582 Sep 06 04:29	30°RM)		retrograde	3583 Aug 14 12:52	12° m) 34'17	20 07 33
evening set	3582 Sep 08 12:59	28° Mp 46'38		evening set	3583 Aug 20 22:49	10° m 54'16	
min. Earth dist.	3582 Sep 12 04:54	26° m 05'22	0.61115 AU	min. Earth dist.	3583 Aug 25 02:07	8° m) 18'53	0.59046 AU
inferior conj	3582 Sep 15 08:33	23° m 22'20		inferior conj	3583 Aug 28 08:43	5° ™ 51'36	-4°57'27
minimum elong	3582 Sep 15 14:16	23° m 09'58	4°18'20	minimum elong	3583 Aug 28 12:24	5° ™ 44'40	4°57'03
morning rise	3582 Sep 22 17:21	18° ™ 30'47		morning rise	3583 Sep 05 04:11	1° Mp 23′07	
direct	3582 Sep 25 02:17	18° Mp 08′02		direct	3583 Sep 07 14:36	1° m 03'04	
asc. node	3582 Sep 30 15:10	20° Mp 17'25		morning max el	3583 Sep 15 14:00	4° ™ 53'07	18°28'38
morning max el	3582 Oct 02 05:30	21°Mp41'16	17°59'34	asc. node	3583 Sep 17 12:13	6° m 55'50	
	3582 Oct 08 14:12	0∘ ⊽			3583 Oct 01 09:17	0° ჲ 0° ჲ 32'18	
morning set	3582 Oct 18 00:34 3582 Oct 25 08:29	16° ≏ 36′24 0° ™		morning set	3583 Oct 01 16:00	0°=232′18	
	3382 Oct 23 08.29	U IIG		superior conj	3583 Oct 10 15:06	17° ≏ 36'30	1°27'45
superior conj	3582 Oct 28 04:13	5°M00'46	1°04'33	minimum elong	3583 Oct 10 13:00 3583 Oct 10 18:30	17 ⊆ 5030	
minimum elong	3582 Oct 28 08:28	5°M19'27	1°04'01	minimum crong	3583 Oct 17 12:28	0°ML	1 2/2/
max. Earth dist.	3582 Nov 04 18:32	17°M59'14	1.42209 AU	max. Earth dist.	3583 Oct 18 01:24	0°M56'09	1.40230 AU
desc. node	3582 Nov 06 22:08	21°M31'31		evening rise	3583 Oct 22 08:59	8°M15'50	
evening rise	3582 Nov 10 17:40	27°M40'15		desc. node	3583 Oct 24 19:08	12°ML15'07	
	3582 Nov 12 05:00	0° ∡ ″			3583 Nov 05 05:59	0° ∡ ″	
	3582 Dec 02 13:35	0° ප		evening max el	3583 Nov 26 02:49	26° ≯ 58′26	23°41'02
evening max el	3582 Dec 13 12:29		22°21'09		3583 Nov 29 11:04	0°ಕ	
retrograde	3582 Dec 23 03:25	19° る 05'26		retrograde	3583 Dec 06 20:41	3° ට 19'06	
evening set	3582 Dec 27 17:01	17°る14'39		evening set	3583 Dec 11 23:04	1°る12'03	
asc. node inferior conj	3582 Dec 27 14:22 3583 Jan 02 01:32	17°る20'01 10°る53'43	1°46'19	asc. node	3583 Dec 13 05:30 3583 Dec 14 11:25	30°Ŗ ⋌ 28° ⋌ 35'45	
minimum elong	3583 Jan 02 01.32 3583 Jan 01 23:24	10 33343 11° る 01'06	1°45'31	inferior conj	3583 Dec 14 11.25 3583 Dec 17 09:01	24° x '33 43	0°58'32
min. Earth dist.	3583 Jan 01 23:08	11°る02'01	0.67965 AU	minimum elong	3583 Dec 17 07:42	24°×751'40	0°57'59
morning rise	3583 Jan 07 05:39	4° る 43'30		min. Earth dist.	3583 Dec 16 19:48	25° ₹ 32'15	0.67871 AU
direct	3583 Jan 11 21:57	2°₹46'36		morning rise	3583 Dec 22 16:18	18° ∡ ¹41'15	
morning max el	3583 Jan 21 07:05	8° る 17'32	22°12'46	direct	3583 Dec 26 18:28	17° ∡ °07′08	
desc. node	3583 Feb 02 21:20	23° る 57'25		morning max el	3584 Jan 04 00:40	21° х 53'14	20°52'01
	3583 Feb 07 03:14	0° ≈			3584 Jan 10 21:10	0°ರ	
morning set	3583 Feb 23 13:36	25°≈13'02		desc. node	3584 Jan 20 18:23	13° る 54'53	
	3583 Feb 26 11:47	0°) (3584 Jan 31 10:05	0° ≈	
max. Earth dist.	3583 Feb 28 23:57	4°) (10′51	1.40931 AU	morning set	3584 Feb 02 19:50	3°≈44'13	1 42070 477
avnariar aani	3583 Mar 08 18:33	17° ₩ 39'15	2000140	max. Earth dist.	3584 Feb 11 03:51	17°≈00'02	1.42860 AU
superior conj minimum elong	3583 Mar 08 22:04	17 X 39 13		superior conj	3584 Feb 18 01:30	28° ≈ 26'08	-2°07'05
minimum clong	3583 Mar 15 13:03	0° Υ	2 00 20	minimum elong	3584 Feb 18 01:05	28°≈24'21	2°07'05
evening rise	3583 Mar 19 02:15	6° Υ 37'21		minimum crong	3584 Feb 18 23:40	0° ∀	2 07 03
asc. node	3583 Mar 25 13:41	18° Y 29'34		evening rise	3584 Feb 29 21:11	19°) €02'54	
	3583 Apr 02 01:03	8° 0			3584 Mar 07 01:47	$0^{\circ}\mathbf{\Upsilon}$	
evening max el	3583 Apr 04 07:38	2° 8 31'25	18°17'10	asc. node	3584 Mar 11 10:42	7° Ƴ 15′07	
retrograde	3583 Apr 11 10:58	6° 8 05'12		evening max el	3584 Mar 17 19:00	15° Ƴ 34'52	18°06'56
evening set	3583 Apr 13 21:55	5° 8 40'50		retrograde	3584 Mar 24 08:52	18° Ƴ 58′03	
inferior conj	3583 Apr 21 00:51	0° 8 59'47	2°44'25	evening set	3584 Mar 27 01:50	18° Y 23'27	
minimum elong	3583 Apr 21 04:26	0° 8 52'05	2°43'35	inferior conj	3584 Apr 02 13:40	13° Υ 22'07	
min Eth U.	3583 Apr 22 04:30	30°RΥ 20°ΥΩ4146	0.50200 411	minimum elong	3584 Apr 02 15:49	13° Y 16'49 10° Y 19'19	3°22'55
min. Earth dist. morning rise	3583 Apr 24 11:01 3583 Apr 28 08:15	28° Υ 04'46 25° Υ 21'23	0.59288 AU	min. Earth dist. morning rise	3584 Apr 05 16:05 3584 Apr 09 04:01	7° Υ 25'30	0.61463 AU
desc. node	3583 Apr 28 08:15 3583 May 01 20:29	23° Y 21° 23° Y 54° 16		direct	3584 Apr 15 23:12	5° Υ 04'00	
direct	3583 May 04 15:47	23° Y 34° 10 23° Y 32° 51		desc. node	3584 Apr 17 17:31	5°Υ12'56	
	3583 May 17 14:39	0° 8		morning max el	3584 Apr 30 03:58	13° Υ 01'23	27°49'46
morning max el	3583 May 19 00:47	1° 8 20'49	27°19'35	<i>3</i>	3584 May 13 16:34	0°8	
-	3583 Jun 08 15:01	0°II			3584 May 30 23:36	0°II	
morning set	3583 Jun 19 00:40	20° Ⅲ 01'57		morning set	3584 Jun 02 04:51	4° Ⅱ 28'49	
asc. node	3583 Jun 21 13:00	25° Ⅱ 21'47		asc. node	3584 Jun 07 10:01	15° Ⅱ 29'35	

max. Earth dist.	3584 Jun 08 02:11	16° Ⅲ 57'14	1.32270 AU		3585 May 07 03:56	0°8	
				morning set	3585 May 17 02:19	18° 8 32'02	
superior conj	3584 Jun 09 13:46	20° Ⅱ 11'12		max. Earth dist.	3585 May 22 06:23	29° 8 09'51	1.32918 AU
minimum elong	3584 Jun 09 12:45	20° Ⅱ 05'38	0°22'17		3585 May 22 15:52	Π °0	
	3584 Jun 14 01:25	0°9					
evening rise	3584 Jun 16 10:33	5° © 07'26		superior conj	3585 May 24 21:11	4° ∏ 44'38	
	3584 Jun 29 14:32	0°N	24045144	minimum elong	3585 May 24 21:24	4° ∏ 45'47	0°04'17
evening max el	3584 Jul 12 05:18	16° Ω 18'02	24°45'44	behind sun begin	3585 May 24 16:16	4° Ⅱ 18'11	
desc. node	3584 Jul 14 16:47	18° Ω 29'58		behind sun end	3585 May 25 02:32	5° Ⅱ 13'25	
retrograde	3584 Jul 26 03:40	23° Ω 20'57		asc. node	3585 May 25 07:03	5° Ⅱ 37'42	
evening set	3584 Jul 31 08:39	22° Ω 19'35 19° Ω 31'08	0.57099 AU	evening rise	3585 May 31 22:21	19°Ⅲ55'02 0°©	
min. Earth dist. inferior conj	3584 Aug 05 16:38	$19^{\circ} 0.31^{\circ} 0.08$ $17^{\circ} \Omega 39^{\circ} 0.1$		avanina may al	3585 Jun 05 20:34 3585 Jun 23 18:33	୦°୬୬ 26°୭45'04	22900152
minimum elong	3584 Aug 08 13:19	17 δ ί 3901 17° Ω 41'07		evening max el	3585 Jun 27 15:07	20 943 04 0°Ω	23 09 32
morning rise	3584 Aug 08 12:03 3584 Aug 16 18:01	17 ∂ℓ 41 07 13° Ω 32'12	3 0/13	desc. node	3585 Jul 27 13:07 3585 Jul 01 13:49	2°Ω15'23	
direct	3584 Aug 19 08:38	13° Ω 13'05		retrograde	3585 Jul 07 05:41	3°Ω28'20	
morning max el	3584 Aug 28 13:41	13° Ω 31'42	19°18'53	evening set	3585 Jul 10 22:17	2° Ω 58'33	
asc. node	3584 Sep 03 09:16	24°Ω34'48	17 10 33	evening set	3585 Jul 17 15:40	30°RS	
asc. Houc	3584 Sep 05 09:10 3584 Sep 06 18:48	0° M)		min. Earth dist.	3585 Jul 17 13:40 3585 Jul 18 03:57	29° © 42'25	0.55605 AU
morning set	3584 Sep 14 16:14	14° m 53'33		inferior conj	3585 Jul 19 22:13	28° © 40'43	
morning set	3584 Sep 22 06:18	0∘ ʊ		minimum elong	3585 Jul 19 15:18	28°950'51	4°32'26
	33013 cp 22 00.10	о —		morning rise	3585 Jul 28 10:41	24°548'00	1 32 20
superior conj	3584 Sep 22 19:15	1° ഫ 03'13	1°40'34	direct	3585 Jul 31 07:56	24°\$28'01	
minimum elong	3584 Sep 22 20:58	1° ⊆ 11'38	1°40'29	morning max el	3585 Aug 11 02:01	29° 5 27'31	20°30'43
max. Earth dist.	3584 Sep 29 05:21	13° £ 11'30	1.38152 AU	morning man er	3585 Aug 11 15:40	0°Ω	20 30 .5
evening rise	3584 Oct 02 23:52	19° £ 56'41		asc. node	3585 Aug 21 06:20	13° Ω 00'04	
	3584 Oct 08 22:02	0°M		morning set	3585 Aug 29 22:21	29° £ 32′01	
desc. node	3584 Oct 10 16:08	2°M51'18		. 8	3585 Aug 30 03:49	0° m/y	
	3584 Oct 29 08:44	0° ⊼			C	•	
evening max el	3584 Nov 07 15:17	10° ∡ ³38'41	24°58'42	superior conj	3585 Sep 06 11:48	15° Mp 06'41	1°44'37
retrograde	3584 Nov 19 09:52	17° ∡ ¹28'35		minimum elong	3585 Sep 06 11:52	15° m 07'03	1°44'36
evening set	3584 Nov 25 02:00	15° ∡ ¹06'23		max. Earth dist.	3585 Sep 11 12:16	25° m 05'20	1.36211 AU
min. Earth dist.	3584 Nov 29 14:47	10° ₹ 00'31	0.67434 AU		3585 Sep 14 02:03	0∘ 亚	
asc. node	3584 Nov 30 08:29	9° ∡ 02′21		evening rise	3585 Sep 15 11:31	2° ≏ 35'48	
inferior conj	3584 Nov 30 14:40	8° ∡ ¹41'56	0°05'19	desc. node	3585 Sep 27 13:10	23° ഫ 15′20	
minimum elong	3584 Nov 30 14:32	8° ∡ ⁴42′23	0°05'16		3585 Oct 01 22:24	0° M	
transit middle	3584 Nov 30 14:32	8° ∡ ¹42'23	0°05'16	evening max el	3585 Oct 21 03:45	24°M20'57	26°06'44
transit begin	3584 Nov 30 11:55	8° ₹ '51'00			3585 Oct 28 11:42	0°⊀	
transit end	3584 Nov 30 17:09	8° ₰ ³33'46		retrograde	3585 Nov 02 18:07	1° ₹ 29'01	
morning rise	3584 Dec 06 03:14	2° х 42′34			3585 Nov 07 12:36	30°RM	
direct	3584 Dec 09 16:50	1° ≯ 29'14		evening set	3585 Nov 09 00:03	28°M54'33	
morning max el	3584 Dec 17 02:02	5° ≯ 39'43	19°43'38	min. Earth dist.	3585 Nov 13 05:37	24°M24'05	0.66656 AU
greatest brilliancy	3584 Dec 30 06:32	23° ∡ *04'15	-0.7m	inferior conj	3585 Nov 14 16:39	22°M35'23	
	3585 Jan 03 21:19	0°る		minimum elong	3585 Nov 14 18:02	22°M31'03	0°51'33
desc. node	3585 Jan 06 15:24	4°る11'31		asc. node	3585 Nov 17 05:33	19°M35'00	
morning set	3585 Jan 11 15:53	11° る 54'14		morning rise	3585 Nov 20 12:28	16°M45'14	
	3585 Jan 23 05:41	0°≈ 0°≈ •37!00	1.44312 AU	direct	3585 Nov 23 15:28	15°M49'25	10050124
max. Earth dist.	3585 Jan 23 15:00	0° ≈ 37'00	1.44312 AU	morning max el	3585 Nov 30 10:43	19° ™ 35'02 0° ҂	18°50'24
superior conj	3585 Jan 28 06:29	8° ≈ 03'11	-1°56'34	morning set	3585 Dec 08 13:38 3585 Dec 22 03:12	0° x ¹ 20° x ¹57'17	
minimum elong	3585 Jan 28 00:10	7°≈37'40		desc. node	3585 Dec 24 12:26	24° x 42'03	
evening rise	3585 Feb 10 20:52	0°) 35′28	1 30 12	desc. node	3585 Dec 27 12:29	24 × 42 03	
evening rise	3585 Feb 10 12:30	0° ∀		max. Earth dist.	3586 Jan 06 08:02		1.45114 AU
asc. node	3585 Feb 26 07:45	25° ₩ 23'27		max. Earth dist.	3300 Jun 00 00.02	11 0 10 25	1.13111110
evening max el	3585 Mar 01 07:46	28° H 53'05	18°15'48	superior conj	3586 Jan 07 14:08	16° පි 46'44	-1°26'38
	3585 Mar 02 12:36	0°Υ		minimum elong	3586 Jan 07 04:59	16°る10'11	
retrograde	3585 Mar 07 18:13	2° Υ 19'34			3586 Jan 15 22:39	0° ≈	
evening set	3585 Mar 10 16:57	1° Υ 33'32		evening rise	3586 Jan 22 21:52	11° ≈ 11'03	
Č	3585 Mar 12 23:35	30° ₹		- C	3586 Feb 03 15:33	0°) €	
inferior conj	3585 Mar 16 17:35	26° ℋ 12'50	3°37'36	evening max el	3586 Feb 12 19:15	12°) 19′51	18°42'53
minimum elong	3585 Mar 16 17:55	26°) 11′54		asc. node	3586 Feb 13 04:49	12°) 43′40	
min. Earth dist.	3585 Mar 19 06:07	23° ¥ 25′15	0.63493 AU	retrograde	3586 Feb 19 10:56	16° ∺ 01'52	
morning rise	3585 Mar 22 17:56	20°) €06′25		evening set	3586 Feb 22 15:49	15°) €03'26	
direct	3585 Mar 29 15:29	17° ¥ 22'58		inferior conj	3586 Feb 28 08:39	9° ∺ 24'55	3°33'44
desc. node	3585 Apr 04 14:35	19°) 06′02		minimum elong	3586 Feb 28 07:30	9° ∺ 28'25	3°33'39
morning max el	3585 Apr 12 11:38	25° ∺ 20′37	27°42'28	min. Earth dist.	3586 Mar 02 05:29	7° ∺ 08'29	0.65194 AU
	3585 Apr 16 18:06	$0^{\circ}\Upsilon$		morning rise	3586 Mar 05 22:45	3°) 13′36	

J: 4	3586 Mar 12 14:48	0°) 22'36		4 4-	3587 Mar 09 08:39	22°≈23'26	
direct				desc. node			
desc. node	3586 Mar 22 11:37	5°) €00'42	27001127		3587 Mar 15 20:39	0° ∀ 0° Υ	
morning max el	3586 Mar 25 21:23	8°) €09'55	2/*01'36		3587 Apr 05 01:49		
	3586 Apr 11 20:53	0° Υ		morning set	3587 Apr 13 12:02	14° Y 49'09	
	3586 Apr 29 12:23	0° 8		max. Earth dist.	3587 Apr 17 08:45	22° Y ′05'46	1.35576 AU
morning set	3586 Apr 30 14:04	2° 8 02'48			3587 Apr 21 09:25	0°8	
max. Earth dist.	3586 May 05 01:16	10° 8 52'34	1.34022 AU				
				superior conj	3587 Apr 22 18:05	2° 8 44'08	
superior conj	3586 May 08 23:29	18° 8 58'11		minimum elong	3587 Apr 22 21:20	3° 8 00'36	1°01'03
minimum elong	3586 May 09 01:12	19° 8 07'08	0°32'28	asc. node	3587 Apr 29 01:09	15° 8 39'05	
asc. node	3586 May 12 04:06	25° 8 42'16		evening rise	3587 Apr 30 15:46	18° 8 57'29	
	3586 May 14 04:44	Π $^{\circ}0$			3587 May 06 05:45	Π $^{\circ}0$	
evening rise	3586 May 16 08:47	4° Ⅱ 33'58		evening max el	3587 May 18 17:53	18° Ⅲ 22'42	20°15'16
	3586 May 30 10:20	0 \circ \odot		retrograde	3587 May 29 10:32	23° Ⅲ 35′22	
evening max el	3586 Jun 05 12:47	7° © 17'50	21°35'48	evening set	3587 May 31 10:09	23° Ⅱ 25'22	
retrograde	3586 Jun 17 20:42	13° © 22'09		desc. node	3587 Jun 05 07:51	21° Ⅱ 45'53	
desc. node	3586 Jun 18 10:51	13° © 21'21		inferior conj	3587 Jun 09 12:44	19° Ⅱ 26'46	-1°14'29
evening set	3586 Jun 20 08:20	13° © 08'10		minimum elong	3587 Jun 09 09:14	19° Ⅲ 31'56	1°13'11
inferior conj	3586 Jun 29 17:36	9° © 07'13	-3°10'19	min. Earth dist.	3587 Jun 11 03:11	18° Ⅲ 30′08	0.55107 AU
minimum elong	3586 Jun 29 09:34	9° © 18'27	3°07'52	morning rise	3587 Jun 18 07:00	15° Ⅱ 11'15	
min. Earth dist.	3586 Jun 29 14:48	9° © 11'08	0.54884 AU	direct	3587 Jun 22 05:47	14° Ⅲ 37′29	
morning rise	3586 Jul 08 11:50	5° © 13'17		morning max el	3587 Jul 05 19:18	21° Ⅱ 14'43	23°43'41
direct	3586 Jul 11 18:47	4°5549'41			3587 Jul 13 08:33	0ಂಣ	
morning max el	3586 Jul 24 02:44	10°538'11	22°01'34	asc. node	3587 Jul 26 00:24	21° 5 27'12	
morning mair or	3586 Aug 07 01:11	0°Ω	0.5.	morning set	3587 Jul 29 19:39	29° © 15'56	
asc. node	3586 Aug 08 03:22	2° Ω 00′26		morning sec	3587 Jul 30 03:59	0°Ω	
morning set	3586 Aug 14 08:06	14° Ω 21'14			3307 Jul 30 03.37	0 82	
morning set	3300 Aug 14 00.00	14 0621 14		superior conj	3587 Aug 05 19:52	14° Ω 21'30	1032100
superior conj	3586 Aug 21 12:58	29° Ω 35'39	1°41'24	minimum elong	3587 Aug 05 17:50		1°31'57
	•		1°41'24 1°41'20	max. Earth dist.	3587 Aug 08 02:27	14 δ (1031	1.33340 AU
minimum elong	3586 Aug 21 11:45		1-41-20		_		1.33340 AU
Earth diet	3586 Aug 21 17:36	0° Mp	1 24570 AII	evening rise	3587 Aug 13 07:37	0° Mp 02'05	
max. Earth dist.	3586 Aug 25 02:55	7° Mp 01'31	1.34579 AU		3587 Aug 13 07:12	0° m	
evening rise	3586 Aug 29 15:29	16° Mp 01'18			3587 Aug 30 07:03	0∘ ʊ	
	3586 Sep 06 06:19	0∘ ʊ		desc. node	3587 Sep 01 07:12	2° Ω 59'56	2702402
desc. node	3586 Sep 14 10:12	13° Ω 20'55		evening max el	3587 Sep 16 04:00	21° Ω 15'50	27°24'03
	3586 Sep 26 10:42	0°M		retrograde	3587 Sep 29 17:37	28° △ 33'42	
evening max el	3586 Oct 03 16:22		26°57'33	evening set	3587 Oct 06 20:19	25° ≏ 53'51	
retrograde	3586 Oct 16 20:49	15°M13'23		min. Earth dist.	3587 Oct 10 13:24	22° ≏ 33'51	0.64054 AU
evening set	3586 Oct 23 15:02	12°M31'55		inferior conj	3587 Oct 13 00:45	19° ≏ 59'09	
min. Earth dist.	3586 Oct 27 13:53		0.65531 AU	minimum elong	3587 Oct 13 05:31	19° ≏ 46'41	2°51'17
inferior conj	3586 Oct 29 12:49	6° ™ 22'49		morning rise	3587 Oct 19 15:59	14° ≏ 36'51	
minimum elong	3586 Oct 29 15:56	6°M13'50	1°51'05	asc. node	3587 Oct 21 23:37	14° ≏ 05'11	
asc. node	3586 Nov 04 02:36	1° M 05'44		direct	3587 Oct 22 04:32	14° ≏ 04'58	
morning rise	3586 Nov 04 17:39	0° M 44'57		morning max el	3587 Oct 28 17:07	17° ≏ 30'21	17°53'47
direct	3586 Nov 07 12:14	0° ™ 02'57			3587 Nov 06 17:49	0°M₊	
morning max el	3586 Nov 14 00:40	3°M33'55	18°13'32	morning set	3587 Nov 14 14:54	13°M18'56	
	3586 Dec 01 21:44	0° ∡ ¹			3587 Nov 24 12:37	0° ∡ 7	
morning set	3586 Dec 02 19:11	1° ∡ °27′30					
desc. node	3586 Dec 11 09:28	15° ∡ ¹21'45		superior conj	3587 Nov 27 11:53	4° ≯ 751'42	0°05'22
				minimum elong	3587 Nov 27 12:29	4° ≯ 754'09	0°05'16
superior conj	3586 Dec 17 17:02	25° 渘 ¹23'40	-0°42'09	behind sun begin	3587 Nov 27 02:57	4° ∡ 15'21	
minimum elong	3586 Dec 17 11:42	25° ∡ ¹02'36	0°41'26	behind sun end	3587 Nov 27 22:01	5° ∡ ³32'52	
max. Earth dist.	3586 Dec 20 03:37	29° √ 14'17	1.45180 AU	desc. node	3587 Nov 28 06:31	6° ∡ 07'21	
	3586 Dec 20 15:16	o°ප		max. Earth dist.	3587 Dec 02 22:06	13° ∡ ³34'52	1.44512 AU
evening rise	3587 Jan 03 00:21	20°る53'49		evening rise	3587 Dec 13 11:48	0° る 05'10	
•	3587 Jan 08 20:43	0° ≈		•	3587 Dec 13 10:27	0°ප	
greatest brilliancy	3587 Jan 14 22:20	9° ≈ 20'16	-0.7m		3588 Jan 02 15:40	0° ≈	
evening max el	3587 Jan 27 03:07	25° ≈ 49'43	19°26'56	evening max el	3588 Jan 10 05:55	9° ≈ 21'01	20°25'55
asc. node	3587 Jan 31 01:52	29° ≈ 01'35		asc. node	3588 Jan 17 22:53	14° ≈ 02'55	
retrograde	3587 Feb 03 07:42	29° ≈ 57'50		retrograde	3588 Jan 18 05:49	14° ≈ 03'22	
evening set	3587 Feb 06 19:39	28° ≈ 46'11		evening set	3588 Jan 22 02:19	12° ≈ 37'27	
inferior conj	3587 Feb 12 07:31	22°≈51'54	3°16'08	inferior conj	3588 Jan 27 11:28	6°≈30'15	2°47'51
minimum elong	3587 Feb 12 05:25	22°≈58'44	3°15'46	minimum elong	3588 Jan 27 08:59	6° ≈ 38'44	2°47'12
min. Earth dist.	3587 Feb 12 03:23	21°≈14'49	0.66489 AU	min. Earth dist.	3588 Jan 28 03:44	5°≈34'52	0.67370 AU
morning rise	3587 Feb 17 14:57	16°≈38'27	3.55 107 110	morning rise	3588 Feb 01 15:27	0°≈16'31	3.0,3,0110
•							
direct				morning rise			
direct morning max el	3587 Feb 17 14.57 3587 Feb 23 20:11 3587 Mar 08 06:59	13°≈52'49 21°≈17'06	25°54'50	direct	3588 Feb 01 22:57 3588 Feb 07 06:58	30°Rる 27°る45'45	

	3588 Feb 13 08:21	0° ≈		morning rise	3589 Jan 15 21:39	14° る 04'42	
morning max el	3588 Feb 13 08:21 3588 Feb 18 15:37	0 ∞ 4°≈32'59	24°31'47	direct	3589 Jan 20 22:26	14 30442 11° る 54'29	
desc. node	3588 Feb 18 15.57 3588 Feb 24 05:43	4 ≈32 39 10°≈49'24	24 31 47	morning max el	3589 Jan 20 22.26 3589 Jan 31 00:55	11 3 34 29	23°02'49
desc. Hode	3588 Mar 09 05:12	10 ≈4924 0°) (desc. node	3589 Feb 10 02:46	0°≈00'43	23 02 49
marning act		26° ¥ 36'16		desc. node		0 ≈00 43 0°≈	
morning set	3588 Mar 25 14:54	20° π 3010			3589 Feb 10 02:33	0° ₩	
Fauth diat	3588 Mar 27 12:55	3° Υ 07'40	1 27522 ATT		3589 Mar 02 07:49		
max. Earth dist.	3588 Mar 29 06:33	3 10/40	1.37523 AU	morning set	3589 Mar 06 16:30	7°) (08'24	1 20 (00 11)
	2500 A 05 01 45	1.500053153	1020140	max. Earth dist.	3589 Mar 11 01:23	14°) 32′54	1.39689 AU
superior conj	3588 Apr 05 01:45	15°Υ53'53			250036 10 10 25	2007(15115	1051101
minimum elong	3588 Apr 05 06:11	16° Y 15′20	1°28'12	superior conj	3589 Mar 18 18:27	28°) 17'47	
	3588 Apr 12 05:06	0°8		minimum elong	3589 Mar 18 22:55	28° ¥ 38'18 0° Ƴ	1°50′58
evening rise	3588 Apr 13 16:54	2° 8 58'15			3589 Mar 19 16:37		
asc. node	3588 Apr 14 22:11	5° 8 23'18		evening rise	3589 Mar 28 09:15	16° Y 28'59	
	3588 Apr 30 07:31	0°II		asc. node	3589 Apr 01 19:12	24° Y 49'59	
evening max el	3588 Apr 30 11:01	0°П08'33	19°13'35		3589 Apr 04 16:08	0°8	
retrograde	3588 May 09 11:16	4° Ⅱ 31′29		evening max el	3589 Apr 13 13:56	12° 8 31'55	18°32'03
evening set	3588 May 11 12:11	4° Ⅱ 18'59		retrograde	3589 Apr 21 06:07	16° 8 18'29	
inferior conj	3588 May 19 21:24	0° Ⅱ 09'06	0°40'07	evening set	3589 Apr 23 13:22	15° 8 59'13	
minimum elong	3588 May 19 23:02	0°∏06′22	0°39'32	inferior conj	3589 May 01 02:46	11° 8 30'30	2°08'26
	3588 May 20 02:49	30° ₹8		minimum elong	3589 May 01 06:29	11° 8 23'13	2°07'22
desc. node	3588 May 22 04:52	28° 8 36'03		min. Earth dist.	3589 May 04 12:43	8° 8 51'05	0.58071 AU
min. Earth dist.	3588 May 22 18:09	28° 8 14'22	0.56247 AU	morning rise	3589 May 08 20:27	6° 8 07'22	
morning rise	3588 May 28 06:47	25° 8 18'59		desc. node	3589 May 09 01:54	6° 8 00'47	
direct	3588 Jun 02 04:23	24° 8 23'25		direct	3589 May 14 17:31	4° 8 39'09	
	3588 Jun 14 13:49	Π °0		morning max el	3589 May 29 02:43	12° 8 18'38	26°45'43
morning max el	3588 Jun 16 09:29	1° Ⅱ 39'07	25°23'40		3589 Jun 11 23:07	Π °0	
	3588 Jul 06 05:19	0		morning set	3589 Jun 27 17:25	28° Ⅱ 57'37	
asc. node	3588 Jul 11 21:26	11° © 12'24			3589 Jun 28 05:15	0 \circ \odot	
morning set	3588 Jul 13 07:17	14° © 09'48		asc. node	3589 Jun 28 18:29	1° © 10'15	
superior conj	3588 Jul 20 06:07	29°515'40	1°17'49	superior conj	3589 Jul 04 17:49	14°5511'42	0°59'10
minimum elong	3588 Jul 20 03:46	29° © 02'48	1°17'29	minimum elong	3589 Jul 04 15:38	13°959'40	0°58'46
	3588 Jul 20 14:12	0° N		max. Earth dist.	3589 Jul 04 20:12	14°924'51	1.32108 AU
max. Earth dist.	3588 Jul 21 09:13	1° Ω 43'56	1.32519 AU	evening rise	3589 Jul 11 14:57	29° © 07'47	
evening rise	3588 Jul 27 08:21	14° Ω 27'04			3589 Jul 12 00:54	0° N	
	3588 Aug 04 08:17	0° m			3589 Jul 28 14:47	0° Т р	
desc. node	3588 Aug 18 04:12	22° m 00'22		desc. node	3589 Aug 05 01:11	10° Mp 06'30	
	3588 Aug 24 14:22	0∘ ⊽		evening max el	3589 Aug 10 15:47	16° Mp 10'30	26°43'42
evening max el	3588 Aug 28 12:36	4° £ 04'03	27°20'30	retrograde	3589 Aug 24 14:24	23° m/21'37	
retrograde	3588 Sep 11 07:57	11° £ 19'20		evening set	3589 Aug 31 10:36	21° Tp 21'52	0.60000.177
evening set	3588 Sep 18 12:20	8° £ 52'58		min. Earth dist.	3589 Sep 04 05:47		0.60239 AU
min. Earth dist.	3588 Sep 22 02:47		0.62256 AU	inferior conj	3589 Sep 07 11:41	16° Mp 06'23	
inferior conj	3588 Sep 25 01:29	3° ≏ 16'27		minimum elong	3589 Sep 07 16:53	15° m 55'45	4°37'16
minimum elong	3588 Sep 25 07:16	3° Ω 02'58	3°48'46	morning rise	3589 Sep 15 01:09	11° m 24'15	
	3588 Sep 28 21:32	30°R Mp		direct	3589 Sep 17 10:12	11° m 02'59	
morning rise	3588 Oct 02 03:53	28° m 12'50		asc. node	3589 Sep 24 17:41	14° m 34'24	
direct	3588 Oct 04 13:08	27° m/47'43		morning max el	3589 Sep 24 21:04	14° m/42'29	18°09'18
asc. node	3588 Oct 07 20:39	28° Tp 37'46			3589 Oct 05 09:23	0∘ ⊽	
	3588 Oct 09 23:00	0° ⊽		morning set	3589 Oct 10 16:50	9° ≏ 48'32	
morning max el	3588 Oct 11 08:59	1° ≏ 15'56	17°51'58				
morning set	3588 Oct 27 08:06	26° £ 11'40		superior conj	3589 Oct 20 07:10	27° Ω 35'19	
	3588 Oct 29 11:01	0°M₊		minimum elong	3589 Oct 20 11:14	27° £ 53'36	1°15'18
					3589 Oct 21 15:30	0°M	
superior conj	3588 Nov 07 08:47	15°M36'29		max. Earth dist.	3589 Oct 27 22:23	10°M53'49	1.41401 AU
minimum elong	3588 Nov 07 12:38	15°M52'52	0°45'30	desc. node	3589 Nov 01 00:32	17° M 41'01	
desc. node	3588 Nov 14 03:33	26°M54'57		evening rise	3589 Nov 02 01:40	19°M23'07	
max. Earth dist.	3588 Nov 14 12:43	27°M32'19	1.43195 AU		3589 Nov 08 19:09	0° ∡ 7	
	3588 Nov 16 01:12	0° ∡ 7			3589 Nov 30 01:55	0°る	2225-12
evening rise	3588 Nov 21 23:06	9° ₹ 22'14		evening max el	3589 Dec 05 19:45	6°₹29'15	22°55'06
	3588 Dec 05 15:21	0°る	0100755	retrograde	3589 Dec 15 22:16	12° る 28'54	
evening max el	3588 Dec 23 03:13	22°る53'58	21°36'50	evening set	3589 Dec 20 17:06	10°る31'24	
retrograde	3589 Jan 01 03:15	28°₹15'01		asc. node	3589 Dec 21 16:56	9° る 36'49	1000:
asc. node	3589 Jan 03 19:53	27° る 35'34		inferior conj	3589 Dec 26 02:05	4° る 08'29	1°26'47
evening set	3589 Jan 05 10:00	26°る33'46	2010:56	minimum elong	3589 Dec 26 00:14	4°る14'50	1°26'04
inferior conj	3589 Jan 10 18:19	20°♂16'51		min. Earth dist.	3589 Dec 25 19:07	4° る 32'31	0.67968 AU
minimum elong	3589 Jan 10 15:55	20°る25'10			3589 Dec 29 06:36	30°R ✓	
min. Earth dist.	3589 Jan 10 22:29	20° る 02'23	0.67853 AU	morning rise	3589 Dec 31 07:16	27° ₹ 59'44	

direct	2500 Ion 04 17:20	26° ₹ 12'24		direct	3590 Dec 19 15:01	10° ∡ ³34'53	
direct	3590 Jan 04 17:29	20 x・12 24 0°る					20021112
	3590 Jan 12 03:34 3590 Jan 13 14:24	0°る 1°る23'12	2192705	morning max el	3590 Dec 27 11:14 3591 Jan 08 04:01	15° メ 03'57 0° る	20°21'12
morning max el desc. node	3590 Jan 13 14.24 3590 Jan 27 23:48	1 023 12 19° 3 44'04	21 3/03	desc. node	3591 Jan 14 20:50	0 3 9° る 50'45	
desc. Hode	3590 Jan 27 23:48 3590 Feb 03 23:51	0°≈		morning set	3591 Jan 24 12:02	9 3 3043	
morning sat	3590 Feb 03 23:31 3590 Feb 14 13:04	0 ≈ 16°≈17'35		morning set	3591 Jan 28 00:31	24 O 31 12 0° ≈	
morning set max. Earth dist.	3590 Feb 14 13:04 3590 Feb 21 01:03	16 ≈1733 26°≈50'12	1.41799 AU	max. Earth dist.	3591 Jan 28 00.51 3591 Feb 03 08:51	0 ≈ 10°≈04'04	1.43557 AU
max. Earm dist.	3590 Feb 21 01:03 3590 Feb 22 22:38	20 ≈30 12 0° ∺	1.41/99 AU	max. Earth dist.	3391 Feb 03 08.31	10 ≈04 04	1.43337 AU
	3390 Feb 22 22.36	0 /		superior conj	3591 Feb 09 11:12	20° ≈ 00'37	2004/57
avmariar aani	3590 Feb 28 15:10	9°) 43′25	2005100		3591 Feb 09 11:12 3591 Feb 09 08:18	20 ≈0037 19°≈48'39	
superior conj minimum elong		9° X 43'25 9° X 53'05		minimum elong	3591 Feb	19° ≈ 48°39 0° ∀	2-04-52
2	3590 Feb 28 17:24	9° ★ 33'05 29° ★ 20'35	2-05-05			11°) (24'48	
evening rise	3590 Mar 11 13:09	29° π 2035 0° Υ		evening rise	3591 Feb 22 00:27	11°π2448 0° Υ	
1	3590 Mar 11 21:46	0 γ 13° Υ 52'31		1	3591 Mar 04 23:18	0 γ 2° Υ 23'25	
asc. node	3590 Mar 19 16:14		10010120	asc. node	3591 Mar 06 13:17	2°γ23'25 8° Υ 33'41	10000120
evening max el	3590 Mar 27 23:12	25°Υ23'10	18°10'28	evening max el	3591 Mar 11 11:32		18°08'20
retrograde	3590 Apr 03 19:15	28°Υ50'12		retrograde	3591 Mar 17 22:42	11° Υ 56'40	
evening set	3590 Apr 06 08:58	28° Υ 21'31		evening set	3591 Mar 20 18:10	11° Υ 17'11	
inferior conj	3590 Apr 13 04:59	23° Y 31'44	3°04'15	inferior conj	3591 Mar 27 00:45	6° Y 07'05	3°31'52
minimum elong	3590 Apr 13 08:04	23° Y 24'41	3°03'40	minimum elong	3591 Mar 27 02:07	6° Y 03'31	3°31'45
min. Earth dist.	3590 Apr 16 12:58	20°Υ30'30	0.60223 AU	min. Earth dist.	3591 Mar 29 21:32	3°Υ08'38	0.62364 AU
morning rise	3590 Apr 20 04:55	17° Ƴ 44'44		morning rise	3591 Apr 02 08:43	0° Y 05'30	
desc. node	3590 Apr 25 22:57	15° Y 43'10			3591 Apr 02 11:44	30° ₹	
direct	3590 Apr 26 18:47	15° Y 41'15		direct	3591 Apr 09 05:52	27°) 33′24	
morning max el	3590 May 11 02:02	23° Y 33'26	27°37'01	desc. node	3591 Apr 12 20:01	28° ∺ 10′38	
	3590 May 16 20:46	9° 8			3591 Apr 16 14:18	0 ° \mathbf{Y}	
	3590 Jun 05 03:24	Π $^{\circ}0$		morning max el	3591 Apr 23 07:29	5° Y 31'15	27°51'09
morning set	3590 Jun 12 00:20	13° Ⅱ 33'20			3591 May 11 17:59	0°8	
asc. node	3590 Jun 15 15:31	21° Ⅱ 15′20		morning set	3591 May 27 01:58	27° 8 50'45	
max. Earth dist.	3590 Jun 18 07:46	27° Ⅲ 05′16	1.32097 AU		3591 May 28 03:17	Π $^{\circ}0$	
				max. Earth dist.	3591 Jun 01 16:00	9° ∏ 32'33	1.32497 AU
superior conj	3590 Jun 19 05:14	29° Ⅱ 03'18	0°36'48	asc. node	3591 Jun 02 12:34	11° Ⅲ 23′28	
minimum elong	3590 Jun 19 03:41	28° ∏ 54'42	0°36'29				
	3590 Jun 19 15:33	0 \circ \mathfrak{s}		superior conj	3591 Jun 03 14:39	13° ∏ 44'56	0°11'24
evening rise	3590 Jun 26 01:07	13° © 56'19		minimum elong	3591 Jun 03 14:07	13° Ⅱ 42'00	0°11'17
	3590 Jul 04 02:28	$0^{\circ}\Omega$		behind sun begin	3591 Jun 03 10:26	13° Ⅲ 22′01	
desc. node	3590 Jul 22 22:11	26° Ω 56′08		behind sun end	3591 Jun 03 17:48	14° Ⅲ 02'01	
evening max el	3590 Jul 23 11:41	27° Ω 28'51	25°35'40	evening rise	3591 Jun 10 12:52	28° Ⅱ 46′07	
	3590 Jul 26 08:57	o° mp			3591 Jun 11 02:49	0°ಲ	
retrograde	3590 Aug 06 11:11	4° Mp35′26			3591 Jun 28 02:15	$0^{\circ}\Omega$	
evening set	3590 Aug 12 10:22	3° Mp 12'04		evening max el	3591 Jul 05 01:30	8° Ω 06'34	24°05'36
min. Earth dist.	3590 Aug 16 23:43		0.58185 AU	desc. node	3591 Jul 09 19:13	11° Ω 58'57	
	3590 Aug 17 19:01	30°R Ω		retrograde	3591 Jul 18 20:23	15° Ω 03'17	
inferior conj	3590 Aug 20 03:50	28° Ω 19'04	-5°06'01	evening set	3591 Jul 23 10:22	14° Ω 16'44	
minimum elong	3590 Aug 20 05:44	28° Ω 15'42	5°05'54	min. Earth dist.	3591 Jul 29 12:01	11° Ω 18'18	0.56384 AU
morning rise	3590 Aug 28 03:21	23° Ω 59'57		inferior conj	3591 Jul 31 23:41	9° Ω 46'09	-4°59'05
direct	3590 Aug 30 15:25	23° Ω 40′20		minimum elong	3591 Jul 31 19:48	9° Ω 52'10	4°58'43
morning max el	3590 Sep 08 02:07	27° Ω 41'06	18°47'20	morning rise	3591 Aug 09 07:52	5° Ω 47'06	
-	3590 Sep 10 06:23	o° mp		direct	3591 Aug 12 01:13	5° Ω 27'46	
asc. node	3590 Sep 11 14:45	1° m/40'23		morning max el	3591 Aug 21 21:08	10° Ω 01'51	19°47'02
morning set	3590 Sep 24 12:29	23° m 57'05		asc. node	3591 Aug 29 11:49	19° Ω 40'17	
•	3590 Sep 27 14:35	0∘ ⊽			3591 Sep 04 08:50	0° m)	
	•			morning set	3591 Sep 08 15:33	8° m/26'41	
superior conj	3590 Oct 03 02:05	10° ≏ 34'56	1°34'22	, and the second	1	Î	
minimum elong	3590 Oct 03 04:49	10° ≏ 47'52	1°34'10	superior conj	3591 Sep 16 12:04	24° m 19'05	1°43'16
max. Earth dist.	3590 Oct 10 04:03	23° ≏ 34'26	1.39349 AU	minimum elong	3591 Sep 16 13:04	24° m) 24'02	1°43'14
	3590 Oct 13 20:47	0°M	,	8	3591 Sep 19 09:38	0∘ ⊽	
evening rise	3590 Oct 14 03:11	0°M27'18		max. Earth dist.	3591 Sep 22 08:52		1.37292 AU
desc. node	3590 Oct 18 21:32	8°M22'18		evening rise	3591 Sep 26 03:22	12° £ 33'57	
acce. noue	3590 Nov 02 03:55	0°×7		desc. node	3591 Oct 05 18:33	28° ⊆ 54'04	
evening max el	3590 Nov 18 09:14	20° ₹ 08'24	24°14'46	acce. node	3591 Oct 05 18:35 3591 Oct 06 11:05	0°M	
retrograde	3590 Nov 18 09:14 3590 Nov 29 13:47	26° ₹ 41'55	21 1770		3591 Oct 00 11:03 3591 Oct 28 06:01	0° ⊼ ¹	
evening set	3590 Nov 29 13:47 3590 Dec 04 22:03	20 x 41 33 24° x 28'11		evening max el	3591 Oct 31 21:27	3° ∡ ¹49'47	25°20'10
asc. node	3590 Dec 04 22:03 3590 Dec 08 13:58	24 x ·2811 20° x 26'28		retrograde	3591 Oct 31 21.27 3591 Nov 13 00:55	3 x ·4947 10° x 48'45	20 20 10
min. Earth dist.	3590 Dec 08 15:18	20 x 20 28 19° x 02'51	0.67734 AU	evening set	3591 Nov 18 23:09	8°×720'31	
inferior conj	3590 Dec 10 09:02	19 x 02 31 18° x 03 10	0.07734 AU 0°36'34	min. Earth dist.	3591 Nov 23 08:42	3°×20'53	0.67151 AU
minimum elong	3590 Dec 10 09:02 3590 Dec 10 08:10	18° ₹ '05'10	0°36'12	inferior conj	3591 Nov 24 13:21	1° × ⁷ 57'47	
morning rise	3590 Dec 10 08:10 3590 Dec 15 18:19	11° 🗷 59'56	0 30 12	minimum elong	3591 Nov 24 13:49	1° x '3/4/	
morning 1150	5570 DCC 15 10.19	11 7 37 30		mmmum ciong	5571 110V 4T 15.T9	1 7 30 14	0 1027

asc. node	3591 Nov 25 11:02	0° ∡ ¹48'35		asc. node	3592 Nov 11 08:06	11° M 40'14	
use. noue	3591 Nov 26 02:43	30°RM		morning rise	3592 Nov 13 12:35	10°ML03'52	
morning rise	3591 Nov 30 04:48	26°M02'16		direct	3592 Nov 16 11:36	9°M14'34	
direct	3591 Dec 03 13:37	24°M56'57		morning max el	3592 Nov 23 03:17	12°M53'04	18°32'38
morning max el	3591 Dec 10 16:01	28°M55'20	19°19'04	C	3592 Dec 05 12:35	0° ∡ ¹	
C	3591 Dec 11 16:45	0° ∡ ¹		morning set	3592 Dec 13 10:41	12° ∡ ³34'57	
greatest brilliancy	3591 Dec 24 05:04	17° ∡ °08′19	-0.7m	desc. node	3592 Dec 18 14:52	20° х 48′34	
desc. node	3592 Jan 01 17:51	0°る13'50			3592 Dec 24 10:34	0°ರ	
	3592 Jan 01 14:17	ರ∘ರ					
morning set	3592 Jan 03 11:51	2° る 56'29		superior conj	3592 Dec 29 08:50	7° る 44'25	-1°08'55
max. Earth dist.	3592 Jan 16 23:01	23° る 58'32	1.44743 AU	minimum elong	3592 Dec 29 00:36	7° る 12'07	1°07'56
				max. Earth dist.	3592 Dec 29 16:57	8° ප 16'14	1.45232 AU
superior conj	3592 Jan 20 05:47	29° る 10'39	-1°46'09		3593 Jan 12 12:12	0° ≈	
minimum elong	3592 Jan 19 21:30	28° る 37'43	1°45'29	evening rise	3593 Jan 14 05:50	2° ≈ 45'07	
	3592 Jan 20 18:10	0° ≈		greatest brilliancy	3593 Jan 23 07:12	17° ≈ 06'40	-0.8m
evening rise	3592 Feb 03 14:49	22° ≈ 33'38			3593 Jan 31 22:38	0° ℋ	
	3592 Feb 08 02:16	0° ∀		evening max el	3593 Feb 05 10:05	5° 升 24′08	18°59'39
asc. node	3592 Feb 21 10:20	20° 升 12'47		asc. node	3593 Feb 07 07:22	7° ₩ 08'11	
evening max el	3592 Feb 22 23:58		18°25'06	retrograde	3593 Feb 12 06:34	9° 升 16′22	
retrograde	3592 Feb 29 11:48	25° ∺ 27'57		evening set	3593 Feb 15 14:12	8° ∺ 12'38	
evening set	3592 Mar 03 12:58	24°) ₹36'49		inferior conj	3593 Feb 21 04:38	2° ∺ 27'16	
inferior conj	3592 Mar 09 09:53	19° ∺ 08'08	3°37'54	minimum elong	3593 Feb 21 03:01	2° ∺ 32′22	
minimum elong	3592 Mar 09 09:32	19° ∺ 09'09	3°37'53	min. Earth dist.	3593 Feb 22 19:01	0° ∺ 26'36	0.65794 AU
min. Earth dist.	3592 Mar 11 15:43	16°) 32′18	0.64259 AU		3593 Feb 23 03:39	30° R ≈	
morning rise	3592 Mar 15 05:23	12° 米 58′52		morning rise	3593 Feb 26 15:28	26° ≈ 14'34	
direct	3592 Mar 22 01:13	10° 米 10′36		direct	3593 Mar 05 03:24	23° ≈ 24'07	
desc. node	3592 Mar 29 17:04	12°) 59′53		desc. node	3593 Mar 16 14:06	29°≈35′26	
morning max el	3592 Apr 04 16:40		27°28'51		3593 Mar 17 00:28	0° ∀	
	3592 Apr 14 16:40	0° Υ		morning max el	3593 Mar 18 02:33	1°) €04'14	26°35'45
	3592 May 03 15:10	0° 8			3593 Apr 08 17:46	0° Υ	
morning set	3592 May 09 19:46	11° 8 42'05	1 22220 444	morning set	3593 Apr 23 02:12	24° Y 55'44	
max. Earth dist.	3592 May 14 16:48	21° 8 34'15	1.33328 AU	Eth dit	3593 Apr 25 17:34	0° 8	1 24622 ATT
aumorior aoni	2502 May 17, 20-11	28° 8 10'59	0016116	max. Earth dist.	3593 Apr 27 06:39	3° 8 02'16	1.34623 AU
superior conj minimum elong	3592 May 17 20:11	28° 8 15'22				12° 8 13'41	0945106
					2502 Most 01 10-21		
minimum ciong	3592 May 17 21:01		0 1000	superior conj	3593 May 01 19:31		
_	3592 May 18 16:38	$\Pi^{\circ}0$	0 1000	minimum elong	3593 May 01 21:54	12° 8 25'58	0°44'39
asc. node	3592 May 18 16:38 3592 May 19 09:37	0° П 1° П 30'51	0 1000	minimum elong asc. node	3593 May 01 21:54 3593 May 06 06:39	12° 8 25'58 21° 8 32'34	
_	3592 May 18 16:38 3592 May 19 09:37 3592 May 25 00:22	0°Щ 1°Щ30'51 13°Щ31'07	0 1000	minimum elong	3593 May 01 21:54 3593 May 06 06:39 3593 May 09 09:33	12° 8 25'58 21° 8 32'34 28° 8 03'58	
asc. node evening rise	3592 May 18 16:38 3592 May 19 09:37 3592 May 25 00:22 3592 Jun 02 09:04	0°Ⅱ 1°Ⅱ30'51 13°Ⅱ31'07 0°©		minimum elong asc. node evening rise	3593 May 01 21:54 3593 May 06 06:39 3593 May 09 09:33 3593 May 10 08:02	12°\dagger 25'58 21°\dagger 32'34 28°\dagger 303'58 0°\mathbb{II}	0°44'39
asc. node evening rise evening max el	3592 May 18 16:38 3592 May 19 09:37 3592 May 25 00:22 3592 Jun 02 09:04 3592 Jun 15 15:45	0°II 1°II30'51 13°II31'07 0°© 18°©31'48		minimum elong asc. node	3593 May 01 21:54 3593 May 06 06:39 3593 May 09 09:33 3593 May 10 08:02 3593 May 28 14:14	12°\delta25'58 21°\delta32'34 28°\delta3'58 0°\pi 29°\pi16'16	0°44'39
asc. node evening rise evening max el desc. node	3592 May 18 16:38 3592 May 19 09:37 3592 May 25 00:22 3592 Jun 02 09:04 3592 Jun 15 15:45 3592 Jun 25 16:16	0°Ⅱ 1°Ⅱ30'51 13°Ⅱ31'07 0°ᢒ 18°ᢒ31'48 24°ᢒ40'13		minimum elong asc. node evening rise evening max el	3593 May 01 21:54 3593 May 06 06:39 3593 May 09 09:33 3593 May 10 08:02 3593 May 28 14:14 3593 May 29 08:46	12°825'58 21°832'34 28°803'58 0°II 29°II16'16 0°©	0°44'39
asc. node evening rise evening max el desc. node retrograde	3592 May 18 16:38 3592 May 19 09:37 3592 May 25 00:22 3592 Jun 02 09:04 3592 Jun 15 15:45 3592 Jun 25 16:16 3592 Jun 28 17:37	0°II 1°II30'51 13°II31'07 0°S 18°S31'48 24°S40'13 25°S01'43		minimum elong asc. node evening rise evening max el	3593 May 01 21:54 3593 May 06 06:39 3593 May 09 09:33 3593 May 10 08:02 3593 May 28 14:14 3593 May 29 08:46 3593 Jun 09 06:37	12°\delta25'58 21°\delta32'34 28°\delta3'58 0°\pi 29°\pi16'16	0°44'39
asc. node evening rise evening max el desc. node	3592 May 18 16:38 3592 May 19 09:37 3592 May 25 00:22 3592 Jun 02 09:04 3592 Jun 15 15:45 3592 Jun 25 16:16	0°Ⅱ 1°Ⅱ30'51 13°Ⅱ31'07 0°ᢒ 18°ᢒ31'48 24°ᢒ40'13		minimum elong asc. node evening rise evening max el	3593 May 01 21:54 3593 May 06 06:39 3593 May 09 09:33 3593 May 10 08:02 3593 May 28 14:14 3593 May 29 08:46	12°825'58 21°832'34 28°803'58 0°II 29°II16'16 0°S 4°S59'13	0°44'39
asc. node evening rise evening max el desc. node retrograde evening set	3592 May 18 16:38 3592 May 19 09:37 3592 May 25 00:22 3592 Jun 02 09:04 3592 Jun 15 15:45 3592 Jun 25 16:16 3592 Jun 28 17:37 3592 Jul 01 20:00	0°II 1°II30'51 13°II31'07 0°S 18°S31'48 24°S40'13 25°S01'43 24°S40'31	22°28'46 0.55181 AU	minimum elong asc. node evening rise evening max el retrograde evening set	3593 May 01 21:54 3593 May 06 06:39 3593 May 09 09:33 3593 May 10 08:02 3593 May 28 14:14 3593 May 29 08:46 3593 Jun 09 06:37 3593 Jun 11 10:45	12°825'58 21°832'34 28°803'58 0°II 29°II16'16 0°© 4°©59'13 4°©48'07	0°44'39 20°59'31
asc. node evening rise evening max el desc. node retrograde evening set min. Earth dist.	3592 May 18 16:38 3592 May 19 09:37 3592 May 25 00:22 3592 Jun 02 09:04 3592 Jun 15 15:45 3592 Jun 25 16:16 3592 Jun 28 17:37 3592 Jul 01 20:00 3592 Jul 09 22:57	0°II 1°II30'51 13°II31'07 0°© 18°©31'48 24°©40'13 25°©01'43 24°©40'31 21°©08'38	22°28'46 0.55181 AU -4°04'02	minimum elong asc. node evening rise evening max el retrograde evening set desc. node	3593 May 01 21:54 3593 May 06 06:39 3593 May 09 09:33 3593 May 10 08:02 3593 May 28 14:14 3593 May 29 08:46 3593 Jun 09 06:37 3593 Jun 11 10:45 3593 Jun 12 13:19	12°825'58 21°832'34 28°803'58 0°II 29°II16'16 0°S 4°S59'13 4°S48'07 4°S34'20	0°44'39 20°59'31 -2°23'19
asc. node evening rise evening max el desc. node retrograde evening set min. Earth dist. inferior conj	3592 May 18 16:38 3592 May 19 09:37 3592 May 25 00:22 3592 Jun 02 09:04 3592 Jun 15 15:45 3592 Jun 25 16:16 3592 Jun 28 17:37 3592 Jul 01 20:00 3592 Jul 09 22:57 3592 Jul 11 01:38	0°II 1°II30'51 13°II31'07 0°S 18°S31'48 24°S40'13 25°S01'43 24°S40'31 21°S08'38 20°S30'45	22°28'46 0.55181 AU -4°04'02	minimum elong asc. node evening rise evening max el retrograde evening set desc. node inferior conj	3593 May 01 21:54 3593 May 06 06:39 3593 May 09 09:33 3593 May 10 08:02 3593 May 28 14:14 3593 May 29 08:46 3593 Jun 09 06:37 3593 Jun 11 10:45 3593 Jun 12 13:19 3593 Jun 20 19:06	12°825'58 21°832'34 28°803'58 0°II 29°II16'16 0°9 4°959'13 4°934'20 0°950'29	0°44'39 20°59'31 -2°23'19
asc. node evening rise evening max el desc. node retrograde evening set min. Earth dist. inferior conj minimum elong	3592 May 18 16:38 3592 May 19 09:37 3592 May 25 00:22 3592 Jun 02 09:04 3592 Jun 15 15:45 3592 Jun 25 16:16 3592 Jun 28 17:37 3592 Jul 01 20:00 3592 Jul 09 22:57 3592 Jul 11 01:38 3592 Jul 10 17:27	0°II 1°II30'51 13°II31'07 0°S 18°S31'48 24°S40'13 25°S01'43 24°S40'31 21°S08'38 20°S30'45 20°S42'24	22°28'46 0.55181 AU -4°04'02	minimum elong asc. node evening rise evening max el retrograde evening set desc. node inferior conj minimum elong	3593 May 01 21:54 3593 May 06 06:39 3593 May 09 09:33 3593 May 10 08:02 3593 May 28 14:14 3593 May 29 08:46 3593 Jun 09 06:37 3593 Jun 11 10:45 3593 Jun 12 13:19 3593 Jun 20 19:06 3593 Jun 20 12:31	12°825'58 21°832'34 28°803'58 0°II 29°II16'16 0°\$ 4°\$59'13 4°\$48'07 4°\$34'20 0°\$50'29 0°\$59'47	0°44'39 20°59'31 -2°23'19 2°21'03
asc. node evening rise evening max el desc. node retrograde evening set min. Earth dist. inferior conj minimum elong morning rise	3592 May 18 16:38 3592 May 19 09:37 3592 May 25 00:22 3592 Jun 02 09:04 3592 Jun 15 15:45 3592 Jun 25 16:16 3592 Jun 28 17:37 3592 Jul 01 20:00 3592 Jul 09 22:57 3592 Jul 10 17:27 3592 Jul 10 17:27 3592 Jul 19 16:58	0°II 1°I30'51 13°I31'07 0°S 18°S31'48 24°S40'13 25°S01'43 24°S40'31 21°S08'38 20°S30'45 20°S42'24 16°S40'01	22°28'46 0.55181 AU -4°04'02	minimum elong asc. node evening rise evening max el retrograde evening set desc. node inferior conj minimum elong	3593 May 01 21:54 3593 May 06 06:39 3593 May 09 09:33 3593 May 10 08:02 3593 May 28 14:14 3593 May 29 08:46 3593 Jun 09 06:37 3593 Jun 11 10:45 3593 Jun 12 13:19 3593 Jun 20 19:06 3593 Jun 20 12:31 3593 Jun 21 10:40	12°825'58 21°832'34 28°803'58 0° II 29° II 16'16 0° 9 4° 959'13 4° 948'07 4° 934'20 0° 950'29 0° 959'47 0° 928'28	0°44'39 20°59'31 -2°23'19 2°21'03
asc. node evening rise evening max el desc. node retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct	3592 May 18 16:38 3592 May 19 09:37 3592 May 25 00:22 3592 Jun 02 09:04 3592 Jun 15 15:45 3592 Jun 25 16:16 3592 Jun 28 17:37 3592 Jul 01 20:00 3592 Jul 09 22:57 3592 Jul 10 17:27 3592 Jul 10 17:27 3592 Jul 19 16:58 3592 Jul 22 17:31	0°II 1°I30'51 13°I31'07 0°© 18°©31'48 24°©40'13 25°©01'43 24°©40'31 21°©08'38 20°©30'45 20°©42'24 16°©40'01 16°©19'14	22°28'46 0.55181 AU -4°04'02 4°02'05	minimum elong asc. node evening rise evening max el retrograde evening set desc. node inferior conj minimum elong min. Earth dist.	3593 May 01 21:54 3593 May 06 06:39 3593 May 09 09:33 3593 May 10 08:02 3593 May 28 14:14 3593 May 29 08:46 3593 Jun 09 06:37 3593 Jun 11 10:45 3593 Jun 12 13:19 3593 Jun 20 19:06 3593 Jun 20 12:31 3593 Jun 21 10:40 3593 Jun 22 06:55	12° 8 25'58 21° 8 32'34 28° 8 03'58 0°用 29°用16'16 0°⑤ 4°⑤59'13 4°⑤34'20 0°⑤50'29 0°⑤59'47 0°⑥28'28 30°R用	0°44'39 20°59'31 -2°23'19 2°21'03
asc. node evening rise evening max el desc. node retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct	3592 May 18 16:38 3592 May 19 09:37 3592 May 25 00:22 3592 Jun 02 09:04 3592 Jun 15 15:45 3592 Jun 25 16:16 3592 Jun 28 17:37 3592 Jul 01 20:00 3592 Jul 09 22:57 3592 Jul 10 17:27 3592 Jul 10 17:27 3592 Jul 10 17:27 3592 Jul 19 16:58 3592 Jul 22 17:31 3592 Aug 03 04:32	0°II 1°I30'51 13°I31'07 0°9 18°931'48 24°940'13 25°901'43 24°940'31 21°908'38 20°930'45 20°942'24 16°940'01 16°919'14 21°939'00	22°28'46 0.55181 AU -4°04'02 4°02'05	minimum elong asc. node evening rise evening max el retrograde evening set desc. node inferior conj minimum elong min. Earth dist.	3593 May 01 21:54 3593 May 06 06:39 3593 May 09 09:33 3593 May 10 08:02 3593 May 28 14:14 3593 May 29 08:46 3593 Jun 09 06:37 3593 Jun 11 10:45 3593 Jun 12 13:19 3593 Jun 20 12:31 3593 Jun 20 12:31 3593 Jun 21 10:40 3593 Jun 22 06:55 3593 Jun 29 14:13	12°825'58 21°832'34 28°803'58 0° II 29° II 16'16 0° 9 4° 959'13 4° 948'07 4° 934'20 0° 950'29 0° 959'47 0° 928'28 30° R II 26° II 49'14	0°44'39 20°59'31 -2°23'19 2°21'03
asc. node evening rise evening max el desc. node retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el	3592 May 18 16:38 3592 May 19 09:37 3592 May 25 00:22 3592 Jun 02 09:04 3592 Jun 15 15:45 3592 Jun 25 16:16 3592 Jun 28 17:37 3592 Jul 01 20:00 3592 Jul 09 22:57 3592 Jul 10 17:27 3592 Jul 10 17:27 3592 Jul 10 17:27 3592 Jul 10 16:58 3592 Jul 22 17:31 3592 Aug 03 04:32 3592 Aug 10 04:46	0°∏ 1°∏30'51 13°∏31'07 0°ॐ 18°ॐ31'48 24°ॐ40'13 25°ॐ01'43 24°ॐ40'31 21°ॐ08'38 20°ॐ30'45 20°ॐ42'24 16°ॐ40'01 16°ॐ19'14 21°ॐ39'00 0°Ω	22°28'46 0.55181 AU -4°04'02 4°02'05	minimum elong asc. node evening rise evening max el retrograde evening set desc. node inferior conj minimum elong min. Earth dist.	3593 May 01 21:54 3593 May 06 06:39 3593 May 09 09:33 3593 May 10 08:02 3593 May 28 14:14 3593 May 29 08:46 3593 Jun 09 06:37 3593 Jun 11 10:45 3593 Jun 12 13:19 3593 Jun 20 19:06 3593 Jun 20 12:31 3593 Jun 21 10:40 3593 Jun 22 06:55 3593 Jun 29 14:13 3593 Jul 03 02:57	12° 825'58 21° 832'34 28° 803'58 0° II 29° II 16'16 0° 9 4° 959'13 4° 934'20 0° 959'47 0° 928'28 30° RII 26° II 49'14 26° II 22'21	0°44'39 20°59'31 -2°23'19 2°21'03 0.54857 AU
asc. node evening rise evening max el desc. node retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node	3592 May 18 16:38 3592 May 19 09:37 3592 May 25 00:22 3592 Jun 02 09:04 3592 Jun 15 15:45 3592 Jun 25 16:16 3592 Jun 28 17:37 3592 Jul 01 20:00 3592 Jul 09 22:57 3592 Jul 10 17:27 3592 Jul 10 17:27 3592 Jul 10 17:27 3592 Jul 19 16:58 3592 Jul 22 17:31 3592 Aug 03 04:32 3592 Aug 10 04:46 3592 Aug 15 08:52	0°II 1°I30'51 13°I31'07 0°9 18°931'48 24°940'13 25°901'43 24°940'31 21°908'38 20°930'45 20°942'24 16°940'01 16°919'14 21°939'00 0°\$\alpha\$ 8°\$\alpha\$21'44	22°28'46 0.55181 AU -4°04'02 4°02'05	minimum elong asc. node evening rise evening max el retrograde evening set desc. node inferior conj minimum elong min. Earth dist. morning rise direct	3593 May 01 21:54 3593 May 06 06:39 3593 May 09 09:33 3593 May 10 08:02 3593 May 28 14:14 3593 May 29 08:46 3593 Jun 09 06:37 3593 Jun 11 10:45 3593 Jun 12 13:19 3593 Jun 20 19:06 3593 Jun 20 12:31 3593 Jun 21 10:40 3593 Jun 22 06:55 3593 Jun 29 14:13 3593 Jul 03 02:57 3593 Jul 12 23:28	12° 825'58 21° 832'34 28° 803'58 0° II 29° II 16'16 0° 9 4° 959'13 4° 934'20 0° 950'29 0° 959'47 0° 928'28 30° RII 26° II 49'14 26° II 22'21 0° 99	0°44'39 20°59'31 -2°23'19 2°21'03 0.54857 AU
asc. node evening rise evening max el desc. node retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node	3592 May 18 16:38 3592 May 19 09:37 3592 May 25 00:22 3592 Jun 02 09:04 3592 Jun 15 15:45 3592 Jun 25 16:16 3592 Jun 28 17:37 3592 Jul 01 20:00 3592 Jul 09 22:57 3592 Jul 10 17:27 3592 Jul 10 17:27 3592 Jul 10 17:27 3592 Jul 19 16:58 3592 Jul 22 17:31 3592 Aug 03 04:32 3592 Aug 10 04:46 3592 Aug 15 08:52 3592 Aug 22 23:27	0°II 1°I30'51 13°I31'07 0°I 18°I31'48 24°I40'13 25°I40'31 21°I608'38 20°I45 20°I45 20°I41 21°I609'14	22°28'46 0.55181 AU -4°04'02 4°02'05	minimum elong asc. node evening rise evening max el retrograde evening set desc. node inferior conj minimum elong min. Earth dist. morning rise direct morning max el	3593 May 01 21:54 3593 May 06 06:39 3593 May 09 09:33 3593 May 10 08:02 3593 May 28 14:14 3593 May 29 08:46 3593 Jun 09 06:37 3593 Jun 11 10:45 3593 Jun 12 13:19 3593 Jun 20 19:06 3593 Jun 20 12:31 3593 Jun 21 10:40 3593 Jun 22 06:55 3593 Jun 29 14:13 3593 Jun 03 02:57 3593 Jul 03 02:57 3593 Jul 12 23:28 3593 Jul 16 01:13	12°825'58 21°832'34 28°803'58 0° II 29° II 16'16 0° 9 4° 959'13 4° 948'07 4° 934'20 0° 950'29 0° 959'47 0° 928'28 30° RII 26° II 49'14 26° II 22'21 0° 99 2° 933'08 27° 933'57 0° \$\mathcal{L}\$	0°44'39 20°59'31 -2°23'19 2°21'03 0.54857 AU
asc. node evening rise evening max el desc. node retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node	3592 May 18 16:38 3592 May 19 09:37 3592 May 25 00:22 3592 Jun 02 09:04 3592 Jun 15 15:45 3592 Jun 25 16:16 3592 Jun 28 17:37 3592 Jul 01 20:00 3592 Jul 09 22:57 3592 Jul 10 17:27 3592 Jul 10 17:27 3592 Jul 10 17:27 3592 Jul 19 16:58 3592 Jul 22 17:31 3592 Aug 03 04:32 3592 Aug 10 04:46 3592 Aug 15 08:52 3592 Aug 22 23:27 3592 Aug 26 05:58	0°H 1°H30'51 13°H31'07 0°S 18°S31'48 24°S40'13 25°S01'43 24°S40'31 21°S08'38 20°S30'45 20°S42'24 16°S40'01 16°S19'14 21°S39'00 0°A 8°A21'44 23°A10'24 0°M	22°28'46 0.55181 AU -4°04'02 4°02'05 21°07'29	minimum elong asc. node evening rise evening max el retrograde evening set desc. node inferior conj minimum elong min. Earth dist. morning rise direct morning max el	3593 May 01 21:54 3593 May 06 06:39 3593 May 09 09:33 3593 May 10 08:02 3593 May 28 14:14 3593 May 29 08:46 3593 Jun 09 06:37 3593 Jun 11 10:45 3593 Jun 12 13:19 3593 Jun 20 19:06 3593 Jun 20 12:31 3593 Jun 21 10:40 3593 Jun 22 06:55 3593 Jun 29 14:13 3593 Jul 03 02:57 3593 Jul 12 23:28 3593 Jul 16 01:13 3593 Aug 02 05:54	12° 825'58 21° 832'34 28° 803'58 0° II 29° II 16'16 0° 9 4° 959'13 4° 948'07 4° 934'20 0° 950'29 0° 959'47 0° 928'28 30° RII 26° II 49'14 26° II 22'21 0° 99 2° 933'08 27° 933'57	0°44'39 20°59'31 -2°23'19 2°21'03 0.54857 AU
asc. node evening rise evening max el desc. node retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node morning set	3592 May 18 16:38 3592 May 19 09:37 3592 May 25 00:22 3592 Jun 02 09:04 3592 Jun 15 15:45 3592 Jun 25 16:16 3592 Jun 28 17:37 3592 Jul 01 20:00 3592 Jul 09 22:57 3592 Jul 10 17:27 3592 Jul 10 17:27 3592 Jul 10 17:27 3592 Jul 19 16:58 3592 Jul 22 17:31 3592 Aug 03 04:32 3592 Aug 10 04:46 3592 Aug 15 08:52 3592 Aug 22 23:27 3592 Aug 26 05:58	0°II 1°I30'51 13°I31'07 0°S 18°S31'48 24°S40'13 25°S01'43 24°S40'31 21°S08'38 20°S30'45 20°S42'24 16°S40'01 16°S19'14 21°S39'00 0°R 8°R21'44 23°R10'24 0°M 8°R34'58 8°M34'58	22°28'46 0.55181 AU -4°04'02 4°02'05 21°07'29 1°44'03 1°44'02	minimum elong asc. node evening rise evening max el retrograde evening set desc. node inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set	3593 May 01 21:54 3593 May 06 06:39 3593 May 09 09:33 3593 May 10 08:02 3593 May 28 14:14 3593 May 29 08:46 3593 Jun 09 06:37 3593 Jun 11 10:45 3593 Jun 12 13:19 3593 Jun 20 19:06 3593 Jun 20 12:31 3593 Jun 21 10:40 3593 Jun 22 06:55 3593 Jun 29 14:13 3593 Jul 03 02:57 3593 Jul 12 23:28 3593 Jul 16 01:13 3593 Aug 02 05:54 3593 Aug 03 11:50 3593 Aug 07 10:08	12° 825'58 21° 832'34 28° 803'58 0° II 29° II 16'16 0° 9 4° 959'13 4° 948'07 4° 934'20 0° 950'29 0° 959'47 0° 928'28 30° RII 26° II 49'14 26° II 22'21 0° 9 2° 933'08 27° 933'57 0° \$\alpha\$ 8° \$\alpha\$01'55	0°44'39 20°59'31 -2°23'19 2°21'03 0.54857 AU 22°44'16
asc. node evening rise evening max el desc. node retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node morning set	3592 May 18 16:38 3592 May 19 09:37 3592 May 25 00:22 3592 Jun 02 09:04 3592 Jun 15 15:45 3592 Jun 25 16:16 3592 Jun 28 17:37 3592 Jul 01 20:00 3592 Jul 09 22:57 3592 Jul 11 01:38 3592 Jul 10 17:27 3592 Jul 19 16:58 3592 Jul 22 17:31 3592 Aug 03 04:32 3592 Aug 10 04:46 3592 Aug 15 08:52 3592 Aug 22 23:27 3592 Aug 26 05:58 3592 Aug 30 08:44 3592 Aug 30 08:12 3592 Sep 03 18:17	0°II 1°I30'51 13°I31'07 0°9 18°931'48 24°940'13 25°901'43 24°940'31 21°908'38 20°930'45 20°942'24 16°940'01 16°919'14 21°939'00 0°R 8°R21'44 23°R10'24 0°ID 8°M34'58 8°M32'12 17°IM29'38	22°28'46 0.55181 AU -4°04'02 4°02'05 21°07'29	minimum elong asc. node evening rise evening max el retrograde evening set desc. node inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set	3593 May 01 21:54 3593 May 06 06:39 3593 May 09 09:33 3593 May 10 08:02 3593 May 28 14:14 3593 May 29 08:46 3593 Jun 09 06:37 3593 Jun 11 10:45 3593 Jun 12 13:19 3593 Jun 20 19:06 3593 Jun 20 12:31 3593 Jun 21 10:40 3593 Jun 22 06:55 3593 Jun 29 14:13 3593 Jun 29 14:13 3593 Jul 03 02:57 3593 Jul 12 23:28 3593 Jul 16 01:13 3593 Aug 02 05:54 3593 Aug 03 11:50 3593 Aug 07 10:08	12° 825'58 21° 832'34 28° 803'58 0° II 29° II 16'16 0° 9 4° 959'13 4° 948'07 4° 934'20 0° 950'29 0° 959'47 0° 928'28 30° RII 26° II 49'14 26° II 22'21 0° 9 2° 933'08 27° 933'57 0° \$\alpha\$ 8° \$\alpha\$01'55	0°44'39 20°59'31 -2°23'19 2°21'03 0.54857 AU 22°44'16
asc. node evening rise evening max el desc. node retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node morning set	3592 May 18 16:38 3592 May 19 09:37 3592 May 25 00:22 3592 Jun 02 09:04 3592 Jun 15 15:45 3592 Jun 25 16:16 3592 Jun 28 17:37 3592 Jul 01 20:00 3592 Jul 09 22:57 3592 Jul 11 01:38 3592 Jul 10 17:27 3592 Jul 19 16:58 3592 Jul 19 16:58 3592 Jul 22 17:31 3592 Aug 03 04:32 3592 Aug 10 04:46 3592 Aug 15 08:52 3592 Aug 22 23:27 3592 Aug 26 05:58 3592 Aug 30 08:44 3592 Aug 30 08:12 3592 Sep 03 18:17 3592 Sep 07 22:31	0°II 1°I30'51 13°I31'07 0°9 18°931'48 24°940'13 25°901'43 24°940'31 21°908'38 20°930'45 20°942'24 16°940'01 16°919'14 21°939'00 0°A 8°A21'44 23°A10'24 0°ID 8°ID 8°ID 8°ID 8°ID 8°ID 8°ID 8°ID 8	22°28'46 0.55181 AU -4°04'02 4°02'05 21°07'29 1°44'03 1°44'02	minimum elong asc. node evening rise evening max el retrograde evening set desc. node inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set superior conj minimum elong	3593 May 01 21:54 3593 May 06 06:39 3593 May 06 06:39 3593 May 10 08:02 3593 May 28 14:14 3593 May 29 08:46 3593 Jun 09 06:37 3593 Jun 11 10:45 3593 Jun 12 13:19 3593 Jun 20 12:31 3593 Jun 20 12:31 3593 Jun 21 10:40 3593 Jun 22 06:55 3593 Jun 29 14:13 3593 Jun 29 14:13 3593 Jul 03 02:57 3593 Jul 12 23:28 3593 Jul 16 01:13 3593 Aug 02 05:54 3593 Aug 03 11:50 3593 Aug 07 10:08	12° 825'58 21° 832'34 28° 803'58 0° II 29° II 16'16 0° 9 4° 959'13 4° 948'07 4° 934'20 0° 950'29 0° 959'47 0° 928'28 30° RII 26° II 49'14 26° II 22'21 0° 9 2° 933'08 27° 933'57 0° \$\mathcal{Q}\$ 8° \$\mathcal{Q}\$01'55 23° \$\mathcal{Q}\$11'39 23° \$\mathcal{Q}\$02'59	0°44'39 20°59'31 -2°23'19 2°21'03 0.54857 AU 22°44'16
asc. node evening rise evening max el desc. node retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise	3592 May 18 16:38 3592 May 19 09:37 3592 May 25 00:22 3592 Jun 02 09:04 3592 Jun 15 15:45 3592 Jun 25 16:16 3592 Jun 28 17:37 3592 Jul 01 20:00 3592 Jul 09 22:57 3592 Jul 10 17:27 3592 Jul 10 17:27 3592 Jul 10 17:27 3592 Jul 19 16:58 3592 Jul 22 17:31 3592 Aug 03 04:32 3592 Aug 10 04:46 3592 Aug 15 08:52 3592 Aug 22 23:27 3592 Aug 26 05:58 3592 Aug 30 08:12 3592 Sep 03 18:17 3592 Sep 07 22:31 3592 Sep 10 07:48	0°II 1°I30'51 13°I31'07 0°9 18°931'48 24°940'13 25°901'43 24°940'31 21°908'38 20°930'45 20°942'24 16°940'01 16°919'14 21°939'00 0°A 8°A21'44 23°A10'24 0°ID 8°ID 8°ID 8°ID 8°ID 8°ID 8°ID 17°ID 8°ID 17°ID 8°ID 18°ID 18	22°28'46 0.55181 AU -4°04'02 4°02'05 21°07'29 1°44'03 1°44'02	minimum elong asc. node evening rise evening max el retrograde evening set desc. node inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set	3593 May 01 21:54 3593 May 06 06:39 3593 May 09 09:33 3593 May 10 08:02 3593 May 28 14:14 3593 May 29 08:46 3593 Jun 09 06:37 3593 Jun 11 10:45 3593 Jun 12 13:19 3593 Jun 20 12:31 3593 Jun 20 12:31 3593 Jun 20 12:31 3593 Jun 21 10:40 3593 Jun 22 06:55 3593 Jun 29 14:13 3593 Jun 29 14:13 3593 Jul 03 02:57 3593 Jul 12 23:28 3593 Jul 16 01:13 3593 Aug 02 05:54 3593 Aug 03 11:50 3593 Aug 07 10:08	12° 825'58 21° 832'34 28° 803'58 0° II 29° II 16'16 0° 9 4° 959'13 4° 948'07 4° 934'20 0° 959'47 0° 928'28 30° RII 26° II 49'14 26° II 22'21 0° 9 2° 933'08 27° 933'57 0° R 8° R01'55 23° R11'39 23° R02'59 29° R30'04	0°44'39 20°59'31 -2°23'19 2°21'03 0.54857 AU 22°44'16
asc. node evening rise evening max el desc. node retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node morning set	3592 May 18 16:38 3592 May 19 09:37 3592 May 25 00:22 3592 Jun 02 09:04 3592 Jun 15 15:45 3592 Jun 25 16:16 3592 Jun 28 17:37 3592 Jul 01 20:00 3592 Jul 09 22:57 3592 Jul 10 17:27 3592 Jul 10 17:27 3592 Jul 10 17:27 3592 Jul 19 16:58 3592 Jul 22 17:31 3592 Aug 03 04:32 3592 Aug 10 04:46 3592 Aug 15 08:52 3592 Aug 22 23:27 3592 Aug 26 05:58 3592 Aug 30 08:12 3592 Aug 30 08:12 3592 Sep 03 18:17 3592 Sep 07 22:31 3592 Sep 10 07:48 3592 Sep 21 15:34	0°II 1°I30'51 13°I31'07 0°I 18°I31'48 24°I40'13 25°I40'31 21°I608'38 20°I45 20°I42'24 16°I40'01 16°I9'14 21°I9'14 21°I9'14 23°I10'24 0°I0 8°I32'12 17°I029'38 25°I034'14 0°I	22°28'46 0.55181 AU -4°04'02 4°02'05 21°07'29 1°44'03 1°44'02	minimum elong asc. node evening rise evening max el retrograde evening set desc. node inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist.	3593 May 01 21:54 3593 May 06 06:39 3593 May 09 09:33 3593 May 10 08:02 3593 May 28 14:14 3593 May 29 08:46 3593 Jun 09 06:37 3593 Jun 11 10:45 3593 Jun 12 13:19 3593 Jun 20 12:31 3593 Jun 20 12:31 3593 Jun 21 10:40 3593 Jun 22 06:55 3593 Jun 29 14:13 3593 Jun 29 14:13 3593 Jul 03 02:57 3593 Jul 12 23:28 3593 Jul 16 01:13 3593 Aug 02 05:54 3593 Aug 03 11:50 3593 Aug 14 12:37 3593 Aug 14 10:59 3593 Aug 17 12:27 3593 Aug 17 18:13	12° 825'58 21° 832'34 28° 803'58 0° II 29° II 16'16 0° 9 4° 959'13 4° 948'07 4° 934'20 0° 959'47 0° 928'28 30° RII 26° II 49'14 26° II 22'21 0° 9 2° 933'08 27° 933'57 0° \(\alpha\) 8° \(\alpha\) 0'55 23° \(\alpha\) 11'39 23° \(\alpha\) 02'59 29° \(\alpha\) 30'04 0° III)	0°44'39 20°59'31 -2°23'19 2°21'03 0.54857 AU 22°44'16
asc. node evening rise evening max el desc. node retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise desc. node	3592 May 18 16:38 3592 May 19 09:37 3592 May 25 00:22 3592 Jun 02 09:04 3592 Jun 15 15:45 3592 Jun 25 16:16 3592 Jun 28 17:37 3592 Jul 01 20:00 3592 Jul 09 22:57 3592 Jul 10 17:27 3592 Jul 10 17:27 3592 Jul 10 17:27 3592 Jul 19 16:58 3592 Jul 22 17:31 3592 Aug 03 04:32 3592 Aug 10 04:46 3592 Aug 15 08:52 3592 Aug 22 23:27 3592 Aug 26 05:58 3592 Aug 30 08:12 3592 Aug 30 08:12 3592 Sep 03 18:17 3592 Sep 10 07:48 3592 Sep 21 15:34 3592 Sep 28 22:19	0°II 1°I30'51 13°I31'07 0°I 18°I31'48 24°I40'13 25°I40'31 21°I608'38 20°I45 20°I42'24 16°I40'01 16°I9'14 21°I39'00 0°I 8°I21'44 23°I10'24 0°I0 8°I34'58 8°I032'12 17°I029'38 25°I034'14 0°I	22°28'46 0.55181 AU -4°04'02 4°02'05 21°07'29 1°44'03 1°44'02 1.35464 AU	minimum elong asc. node evening rise evening max el retrograde evening set desc. node inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set superior conj minimum elong	3593 May 01 21:54 3593 May 06 06:39 3593 May 09 09:33 3593 May 10 08:02 3593 May 28 14:14 3593 May 29 08:46 3593 Jun 09 06:37 3593 Jun 11 10:45 3593 Jun 12 13:19 3593 Jun 20 19:06 3593 Jun 20 12:31 3593 Jun 21 10:40 3593 Jun 22 06:55 3593 Jun 22 14:13 3593 Jun 29 14:13 3593 Jul 03 02:57 3593 Jul 12 23:28 3593 Jul 16 01:13 3593 Aug 02 05:54 3593 Aug 03 11:50 3593 Aug 07 10:08 3593 Aug 14 12:37 3593 Aug 14 10:59 3593 Aug 17 12:27 3593 Aug 17 18:13 3593 Aug 22 08:06	12° 825'58 21° 832'34 28° 803'58 0° II 29° II 16'16 0° 9 4° 959'13 4° 948'07 4° 934'20 0° 959'47 0° 928'28 30° RII 26° II 49'14 26° II 22'21 0° 9 2° 933'08 27° 933'57 0° \(\Omega \) 8° \(\Omega \) 8° \(\Omega \) 23° \(\Omega \) 25° \(\Omega \) 23° \(\Omega \) 23° \(\Omega \) 25° \(\Omega \) 30° \(\Omega \) 30° \(\Omega	0°44'39 20°59'31 -2°23'19 2°21'03 0.54857 AU 22°44'16
asc. node evening rise evening max el desc. node retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise desc. node evening max el	3592 May 18 16:38 3592 May 19 09:37 3592 May 25 00:22 3592 Jun 02 09:04 3592 Jun 15 15:45 3592 Jun 25 16:16 3592 Jun 28 17:37 3592 Jul 01 20:00 3592 Jul 01 20:00 3592 Jul 10 17:27 3592 Jul 10 17:27 3592 Jul 19 16:58 3592 Jul 19 16:58 3592 Jul 22 17:31 3592 Aug 03 04:32 3592 Aug 10 04:46 3592 Aug 15 08:52 3592 Aug 22 23:27 3592 Aug 26 05:58 3592 Aug 30 08:44 3592 Aug 30 08:12 3592 Sep 03 18:17 3592 Sep 07 22:31 3592 Sep 10 07:48 3592 Sep 28 22:19 3592 Oct 13 09:47	0°II 1°I30'51 13°I31'07 0°I 18°I31'48 24°I40'13 25°I30'43 24°I40'31 21°I60'30'45 20°I42'24 16°I60'14 21°I60'39'14 21°I60'39'14 21°I60'39'14 23°I1'24 0°I0 8°I9'14 23°I1'24 0°I0 19°I1'01 0°IL 17°IL29'43	22°28'46 0.55181 AU -4°04'02 4°02'05 21°07'29 1°44'03 1°44'02	minimum elong asc. node evening rise evening max el retrograde evening set desc. node inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist.	3593 May 01 21:54 3593 May 06 06:39 3593 May 09 09:33 3593 May 10 08:02 3593 May 28 14:14 3593 May 29 08:46 3593 Jun 09 06:37 3593 Jun 11 10:45 3593 Jun 12 13:19 3593 Jun 20 19:06 3593 Jun 20 12:31 3593 Jun 21 10:40 3593 Jun 22 06:55 3593 Jun 22 06:55 3593 Jun 22 14:13 3593 Jul 03 02:57 3593 Jul 12 23:28 3593 Jul 16 01:13 3593 Aug 02 05:54 3593 Aug 03 11:50 3593 Aug 07 10:08 3593 Aug 14 12:37 3593 Aug 14 10:59 3593 Aug 17 12:27 3593 Aug 17 18:13 3593 Aug 22 08:06 3593 Sep 02 18:45	12° 825'58 21° 832'34 28° 803'58 0° II 29° II 16'16 0° 9 4° 959'13 4° 948'07 4° 934'20 0° 950'29 0° 959'47 0° 928'28 30° RII 26° II 49'14 26° II 22'21 0° 9 2° 933'08 27° 933'57 0° \$\Omega\$ 8° \$\Omega\$01'55 23° \$\Omega\$11'39 23° \$\Omega\$02'59 29° \$\Omega\$30'04 0° \$\Omega\$ 9° \$\Omega\$15'51 0° \$\Omega\$	0°44'39 20°59'31 -2°23'19 2°21'03 0.54857 AU 22°44'16
asc. node evening rise evening max el desc. node retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise desc. node evening max el retrograde	3592 May 18 16:38 3592 May 19 09:37 3592 May 25 00:22 3592 Jun 02 09:04 3592 Jun 15 15:45 3592 Jun 25 16:16 3592 Jun 28 17:37 3592 Jul 01 20:00 3592 Jul 09 22:57 3592 Jul 10 17:27 3592 Jul 10 17:27 3592 Jul 19 16:58 3592 Jul 22 17:31 3592 Aug 03 04:32 3592 Aug 10 04:46 3592 Aug 10 04:46 3592 Aug 15 08:52 3592 Aug 22 23:27 3592 Aug 26 05:58 3592 Aug 30 08:44 3592 Aug 30 08:44 3592 Aug 30 08:12 3592 Sep 03 18:17 3592 Sep 07 22:31 3592 Sep 10 07:48 3592 Sep 21 15:34 3592 Sep 28 22:19 3592 Oct 13 09:47 3592 Oct 26 07:04	0°II 1°I30'51 13°I31'07 0°I 18°I31'48 24°I40'13 25°I30'43 24°I40'31 21°I60'30'45 20°I42'24 16°I60'40'01 16°I9'14 21°I639'00 0°A 8°A21'44 23°A10'24 0°I0 8°I034'58 8°I034'58 8°I032'12 17°I029'38 25°I034'14 0°I 19°I10'10 0°IL 17°IL29'43 24°IL43'18	22°28'46 0.55181 AU -4°04'02 4°02'05 21°07'29 1°44'03 1°44'02 1.35464 AU	minimum elong asc. node evening rise evening max el retrograde evening set desc. node inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist.	3593 May 01 21:54 3593 May 06 06:39 3593 May 09 09:33 3593 May 10 08:02 3593 May 28 14:14 3593 May 29 08:46 3593 Jun 09 06:37 3593 Jun 11 10:45 3593 Jun 12 13:19 3593 Jun 20 19:06 3593 Jun 20 12:31 3593 Jun 21 10:40 3593 Jun 22 06:55 3593 Jun 22 06:55 3593 Jun 22 06:55 3593 Jul 23 02:57 3593 Jul 12 23:28 3593 Jul 16 01:13 3593 Aug 02 05:54 3593 Aug 03 11:50 3593 Aug 07 10:08 3593 Aug 14 10:59 3593 Aug 17 12:27 3593 Aug 17 18:13 3593 Aug 17 18:13 3593 Aug 22 08:06 3593 Sep 02 18:45 3593 Sep 08 12:36	12° 825'58 21° 832'34 28° 803'58 0° II 29° II 16'16 0° 9 4° 959'13 4° 948'07 4° 934'20 0° 950'29 0° 959'47 0° 928'28 30° RII 26° II 49'14 26° II 22'21 0° 9 2° 933'08 27° 933'57 0° \$\Omega\$ 8° \$\Omega\$01'55 23° \$\Omega\$11'39 23° \$\Omega\$02'59 29° \$\Omega\$30'04 0° \$\mathrm{m}\$ 9° \$\mathrm{m}\$15'51 0° \$\Omega\$ 9° \$\Omega\$06'06	0°44'39 20°59'31 -2°23'19 2°21'03 0.54857 AU 22°44'16
asc. node evening rise evening max el desc. node retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set	3592 May 18 16:38 3592 May 19 09:37 3592 May 25 00:22 3592 Jun 02 09:04 3592 Jun 15 15:45 3592 Jun 25 16:16 3592 Jun 28 17:37 3592 Jul 01 20:00 3592 Jul 01 20:00 3592 Jul 01 20:00 3592 Jul 10 17:27 3592 Jul 10 17:27 3592 Jul 19 16:58 3592 Jul 22 17:31 3592 Aug 03 04:32 3592 Aug 10 04:46 3592 Aug 10 04:46 3592 Aug 15 08:52 3592 Aug 22 23:27 3592 Aug 26 05:58 3592 Aug 30 08:44 3592 Aug 30 08:44 3592 Aug 30 08:12 3592 Sep 03 18:17 3592 Sep 07 22:31 3592 Sep 10 07:48 3592 Sep 21 15:34 3592 Sep 28 22:19 3592 Oct 13 09:47 3592 Oct 26 07:04 3592 Nov 01 18:29	0°II 1°I30'51 13°I31'07 0°I 18°I31'48 24°I40'13 25°I30'43 24°I40'31 21°I60'30'45 20°I42'24 16°I60'40'01 16°I60'14 21°I60'39'14 21°I60'39'00 0°A 8°A21'44 23°A10'24 0°ID 8°I60'34'58 8°I60'34'58 8°I60'34'58 8°I60'34'14 0°I60'36'34'14 0°I60'36'36'36'36'36'36'36'36'36'36'36'36'36'	22°28'46 0.55181 AU -4°04'02 4°02'05 21°07'29 1°44'03 1°44'02 1.35464 AU 26°30'49	minimum elong asc. node evening rise evening max el retrograde evening set desc. node inferior conj 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	3593 May 01 21:54 3593 May 06 06:39 3593 May 09 09:33 3593 May 10 08:02 3593 May 28 14:14 3593 May 29 08:46 3593 Jun 09 06:37 3593 Jun 11 10:45 3593 Jun 12 13:19 3593 Jun 20 19:06 3593 Jun 20 12:31 3593 Jun 21 10:40 3593 Jun 22 06:55 3593 Jun 22 06:55 3593 Jun 12 23:28 3593 Jul 12 23:28 3593 Jul 12 23:28 3593 Jul 16 01:13 3593 Aug 02 05:54 3593 Aug 03 11:50 3593 Aug 07 10:08 3593 Aug 14 12:37 3593 Aug 17 12:27 3593 Aug 17 18:13 3593 Aug 17 18:13 3593 Aug 17 18:13 3593 Aug 17 18:13 3593 Sep 02 18:45 3593 Sep 08 12:36 3593 Sep 08 12:36 3593 Sep 24 21:42	12° 825'58 21° 832'34 28° 803'58 0° II 29° II 16'16 0° 9 4° 959'13 4° 948'07 4° 934'20 0° 950'29 0° 959'47 0° 928'28 30° RII 26° II 49'14 26° II 22'21 0° 9 2° 933'08 27° 933'57 0° \$\alpha\$ 8° \$\alpha 01'55 23° \$\alpha 11'39 23° \$\alpha 02'59 29° \$\alpha 30'04 0° \$\mathref{m}\$ 9° \$\mathref{m} 15'51 0° \$\mathref{n}\$ 9° \$\mathref{n} 06'06 0° \$\mathref{m}\$	0°44'39 20°59'31 -2°23'19 2°21'03 0.54857 AU 22°44'16 1°38'08 1°38'01 1.33999 AU
asc. node evening rise evening max el desc. node retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist.	3592 May 18 16:38 3592 May 19 09:37 3592 May 25 00:22 3592 Jun 02 09:04 3592 Jun 15 15:45 3592 Jun 25 16:16 3592 Jun 28 17:37 3592 Jul 01 20:00 3592 Jul 09 22:57 3592 Jul 10 17:27 3592 Jul 10 17:27 3592 Jul 19 16:58 3592 Jul 22 17:31 3592 Aug 03 04:32 3592 Aug 10 04:46 3592 Aug 10 04:46 3592 Aug 15 08:52 3592 Aug 22 23:27 3592 Aug 26 05:58 3592 Aug 30 08:44 3592 Aug 30 08:44 3592 Aug 30 08:44 3592 Aug 30 08:12 3592 Sep 03 18:17 3592 Sep 07 22:31 3592 Sep 10 07:48 3592 Sep 21 15:34 3592 Sep 28 22:19 3592 Oct 13 09:47 3592 Oct 26 07:04 3592 Nov 01 18:29 3592 Nov 05 21:01	0°H 1°H30'51 13°H31'07 0°S 18°S31'48 24°S40'13 25°S01'43 24°S40'31 21°S08'38 20°S30'45 20°S42'24 16°S40'01 16°S19'14 21°S39'00 0°A 8°A21'44 23°A10'24 0°M 8°M34'58 8°M32'12 17°M29'38 25°M34'14 0°L 17°M29'43 24°M43'18 22°M04'47 17°M49'47	22°28'46 0.55181 AU -4°04'02 4°02'05 21°07'29 1°44'03 1°44'02 1.35464 AU 26°30'49 0.66219 AU	minimum elong asc. node evening rise evening max el retrograde evening set desc. node inferior conj 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	3593 May 01 21:54 3593 May 06 06:39 3593 May 09 09:33 3593 May 10 08:02 3593 May 28 14:14 3593 May 29 08:46 3593 Jun 09 06:37 3593 Jun 11 10:45 3593 Jun 12 13:19 3593 Jun 20 19:06 3593 Jun 20 12:31 3593 Jun 21 10:40 3593 Jun 22 06:55 3593 Jun 22 06:55 3593 Jun 12 23:28 3593 Jul 12 23:28 3593 Jul 12 23:28 3593 Jul 16 01:13 3593 Aug 02 05:54 3593 Aug 03 11:50 3593 Aug 07 10:08 3593 Aug 14 12:37 3593 Aug 14 10:59 3593 Aug 17 12:27 3593 Aug 17 12:27 3593 Aug 17 18:13 3593 Aug 17 12:27 3593 Sep 02 18:45 3593 Sep 08 12:36 3593 Sep 24 21:42 3593 Sep 25 22:15	12° \$\delta 25'58 21° \$\delta 32'34 28° \$\delta 32'34 28° \$\delta 32'34 28° \$\delta 32'34 29° \$\mathbf{I} 16'16 0° \$\mathbf{G}\$ 4° \$\mathbf{G} 59'13 4° \$\mathbf{G} 48'07 4° \$\mathbf{G} 34'20 0° \$\mathbf{G} 59'47 0° \$\mathbf{G} 28'28 30° \$\mathbf{K} \mathbf{I} 26° \$\mathbf{I} 49'14 26° \$\mathbf{I} 22'21 0° \$\mathbf{G}\$ 2° \$\mathbf{G} 33'57 0° \$\mathbf{A}\$ 8° \$\mathbf{A} 01'55 23° \$\mathbf{A} 11'39 23° \$\mathbf{A} 02'59 29° \$\mathbf{A} 30'04 0° \$\mathbf{M}\$ 9° \$\mathbf{M} 15'51 0° \$\mathbf{L}\$ 9° \$\mathbf{L} 06'06 0° \$\mathbf{M}\$ 0° \$\mathbf{M}\$ 59'56	0°44'39 20°59'31 -2°23'19 2°21'03 0.54857 AU 22°44'16 1°38'08 1°38'01 1.33999 AU
asc. node evening rise evening max el desc. node retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set	3592 May 18 16:38 3592 May 19 09:37 3592 May 25 00:22 3592 Jun 02 09:04 3592 Jun 15 15:45 3592 Jun 25 16:16 3592 Jun 28 17:37 3592 Jul 01 20:00 3592 Jul 01 20:00 3592 Jul 01 20:00 3592 Jul 10 17:27 3592 Jul 10 17:27 3592 Jul 19 16:58 3592 Jul 22 17:31 3592 Aug 03 04:32 3592 Aug 10 04:46 3592 Aug 10 04:46 3592 Aug 15 08:52 3592 Aug 22 23:27 3592 Aug 26 05:58 3592 Aug 30 08:44 3592 Aug 30 08:44 3592 Aug 30 08:12 3592 Sep 03 18:17 3592 Sep 07 22:31 3592 Sep 10 07:48 3592 Sep 21 15:34 3592 Sep 28 22:19 3592 Oct 13 09:47 3592 Oct 26 07:04 3592 Nov 01 18:29	0°II 1°I30'51 13°I31'07 0°I 18°I31'48 24°I40'13 25°I30'43 24°I40'31 21°I60'30'45 20°I42'24 16°I60'40'01 16°I60'14 21°I60'39'14 21°I60'39'00 0°A 8°A21'44 23°A10'24 0°ID 8°I60'34'58 8°I60'34'58 8°I60'34'58 8°I60'34'14 0°I60'36'34'14 0°I60'36'36'36'36'36'36'36'36'36'36'36'36'36'	22°28'46 0.55181 AU -4°04'02 4°02'05 21°07'29 1°44'03 1°44'02 1.35464 AU 26°30'49 0.66219 AU -1°17'28	minimum elong asc. node evening rise evening max el retrograde evening set desc. node inferior conj 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	3593 May 01 21:54 3593 May 06 06:39 3593 May 09 09:33 3593 May 10 08:02 3593 May 28 14:14 3593 May 29 08:46 3593 Jun 09 06:37 3593 Jun 11 10:45 3593 Jun 12 13:19 3593 Jun 20 19:06 3593 Jun 20 12:31 3593 Jun 21 10:40 3593 Jun 22 06:55 3593 Jun 22 06:55 3593 Jun 12 23:28 3593 Jul 12 23:28 3593 Jul 12 23:28 3593 Jul 16 01:13 3593 Aug 02 05:54 3593 Aug 03 11:50 3593 Aug 07 10:08 3593 Aug 14 12:37 3593 Aug 17 12:27 3593 Aug 17 18:13 3593 Aug 17 18:13 3593 Aug 17 18:13 3593 Aug 17 18:13 3593 Sep 02 18:45 3593 Sep 08 12:36 3593 Sep 08 12:36 3593 Sep 24 21:42	12° 825'58 21° 832'34 28° 803'58 0° II 29° II 16'16 0° 9 4° 959'13 4° 948'07 4° 934'20 0° 950'29 0° 959'47 0° 928'28 30° RII 26° II 49'14 26° II 22'21 0° 9 2° 933'08 27° 933'57 0° \$\alpha\$ 8° \$\alpha 01'55 23° \$\alpha 11'39 23° \$\alpha 02'59 29° \$\alpha 30'04 0° \$\mathref{m}\$ 9° \$\mathref{m} 15'51 0° \$\mathref{n}\$ 9° \$\mathref{n} 06'06 0° \$\mathref{m}\$	0°44'39 20°59'31 -2°23'19 2°21'03 0.54857 AU 22°44'16 1°38'08 1°38'01 1.33999 AU

min. Earth dist.	3593 Oct 20 01:57	1°M56'37	0.64937 AU	min. Earth dist.	3594 Oct 02 21:22	15° ≏ 41'17	0.63320 AU
	3593 Oct 21 20:11	30° ŖΩ		inferior conj	3594 Oct 05 13:38	13° ≏ 01'20	-3°18'05
inferior conj	3593 Oct 22 06:05	29° ₽ 32'27	-2°18'12	minimum elong	3594 Oct 05 18:58	12° ≏ 48'03	3°16'21
minimum elong	3593 Oct 22 09:57	29° £ 21'46	2°16'43	morning rise	3594 Oct 12 09:31	7° ≙ 46'17	
morning rise	3593 Oct 28 15:11	24° £ 00'35		direct	3594 Oct 14 20:23	7° £ 17'33	
asc. node	3593 Oct 29 05:07	23° ≏ 46'10		asc. node	3594 Oct 16 02:09	7° £ 25′03	
direct	3593 Oct 31 06:48	23° ഫ 23'23		morning max el	3594 Oct 21 11:04	10° £ 43′07	17°50'46
morning max el	3593 Nov 06 18:35	26° ≏ 51'19	18°02'57		3594 Nov 03 09:48	0° M.	
	3593 Nov 09 12:35	0° M,		morning set	3594 Nov 06 20:47	6°M01'41	
morning set	3593 Nov 24 15:07	23°M41'56					
	3593 Nov 28 10:21	0° ∡ 7		superior conj	3594 Nov 18 21:46	26°M36'19	0°23'49
desc. node	3593 Dec 05 11:53	11° ₹ 31'08		minimum elong	3594 Nov 19 00:11	26°M46'18	0°23'29
					3594 Nov 20 23:13	0° ∡	
superior conj	3593 Dec 08 16:27	16° ∡ ³37'47		desc. node	3594 Nov 22 08:54	2° ҂ 17'31	
minimum elong	3593 Dec 08 13:45	16° ₹ 27'02		max. Earth dist.	3594 Nov 25 05:42	6° ₹ 55'13	1.44023 AU
max. Earth dist.	3593 Dec 12 12:11	22° х 41'18	1.44980 AU	evening rise	3594 Dec 04 09:47	21° ∡ 19'34	
	3593 Dec 17 04:04	0° ろ			3594 Dec 10 02:08	0°る	
evening rise	3593 Dec 25 00:29	12° る 10'58			3594 Dec 31 10:34	0° ≈	
	3594 Jan 05 15:51	0° ≈	0.7	evening max el	3595 Jan 02 16:34	2°≈27'50	20°54'54
greatest brilliancy	3594 Jan 07 17:47	3°≈06'42	-0.7m	retrograde	3595 Jan 11 02:02	7°≈25'48	
evening max el	3594 Jan 19 16:02	18°≈55'41	19°50'24	asc. node	3595 Jan 12 01:25	7°≈20'36	
asc. node	3594 Jan 25 04:24	22°≈55'49		evening set	3595 Jan 15 02:48	5°≈53'19	2022107
retrograde	3594 Jan 27 04:05	23°≈17'13		inferior conj	3595 Jan 20 11:23	29° る 41'42	
evening set	3594 Jan 30 19:29	21°≈59'44	2005110	minimum elong	3595 Jan 20 08:53	29°る50'19 30°Rる	2°32'24
inferior conj	3594 Feb 05 05:58	15°≈59'53	3°05'18	i. Earth diet	3595 Jan 20 06:03	• -	0.67627 ATT
minimum elong	3594 Feb 05 03:38	16°≈07'38	3°04'48	min. Earth dist.	3595 Jan 20 22:19	29°る04'07 23°る28'43	0.67627 AU
min. Earth dist.	3594 Feb 06 05:53 3594 Feb 10 11:34	14° ≈ 40'17 9° ≈ 46'12	0.66918 AU	morning rise direct	3595 Jan 25 14:47 3595 Jan 31 00:10	23° る 28°43 21° る 06'15	
morning rise direct	3594 Feb 10 11:34 3594 Feb 16 11:22	9 ≈46 12 7°≈05'40		morning max el	3595 Feb 10 19:58	21 300 13 27° る 33'17	22054107
morning max el	3594 Feb 10 11:22 3594 Feb 28 11:29	14°≈15'33	25°20'47	morning max er	3595 Feb 10 19:38 3595 Feb 13 03:13	27 ⊙ 33 17 0° ≈	23 34 07
desc. node	3594 Pco 28 11:29 3594 Mar 03 11:07	17°≈27'49	23 20 47	desc. node	3595 Feb 18 08:09	0 ∞ 6° ≈ 14'33	
desc. Hode	3594 Mar 13 07:40	0°) €		desc. flode	3595 Mar 06 23:58	0°) (
	3594 Apr 01 13:25	0° Υ		morning set	3595 Mar 18 09:34	18°) 35'29	
morning set	3594 Apr 05 16:45	7° Υ 18'50		max. Earth dist.	3595 Mar 10 05:51 3595 Mar 22 05:03	25°) 14'53	1.38442 AU
max. Earth dist.	3594 Apr 09 09:10	14° Υ 06'01	1.36369 AU	man Barm digt.	3595 Mar 24 20:27	0°Υ	1.501.12110
superior conj	3594 Apr 15 09:55	25° Ƴ 45'43	-1°13'31	superior conj	3595 Mar 29 11:48	8° Y 37'23	-1°39'09
superior conj minimum elong	-	25° Y 45'43 26° Y 04'46		superior conj minimum elong		8° Ƴ 37'23 8° Ƴ 59'24	-1°39'09 1°38'36
	3594 Apr 15 09:55				3595 Mar 29 11:48		
	3594 Apr 15 09:55 3594 Apr 15 13:45	26° Y 04'46		minimum elong	3595 Mar 29 11:48 3595 Mar 29 16:27	8° Y 59'24	
minimum elong	3594 Apr 15 09:55 3594 Apr 15 13:45 3594 Apr 17 12:46	26° Ƴ 04'46 0° ႘		minimum elong	3595 Mar 29 11:48 3595 Mar 29 16:27 3595 Apr 07 12:08	8° Υ 59'24 26° Υ 07'42	
minimum elong	3594 Apr 15 09:55 3594 Apr 15 13:45 3594 Apr 17 12:46 3594 Apr 23 03:40 3594 Apr 23 14:20 3594 May 03 00:12	26°Y04'46 0°8 11°824'37 12°818'37 0°耳		minimum elong evening rise	3595 Mar 29 11:48 3595 Mar 29 16:27 3595 Apr 07 12:08 3595 Apr 09 11:50	8° Y 59'24 26° Y 07'42 0° と	
minimum elong	3594 Apr 15 09:55 3594 Apr 15 13:45 3594 Apr 17 12:46 3594 Apr 23 03:40 3594 Apr 23 14:20	26°Y04'46 0°8 11°824'37 12°818'37 0°耳 10°耳38'41		minimum elong evening rise asc. node	3595 Mar 29 11:48 3595 Mar 29 16:27 3595 Apr 07 12:08 3595 Apr 09 11:50 3595 Apr 10 00:43	8°Υ59'24 26°Υ07'42 0°႘ 1°႘02'06	1°38'36
minimum elong asc. node evening rise evening max el retrograde	3594 Apr 15 09:55 3594 Apr 15 13:45 3594 Apr 17 12:46 3594 Apr 23 03:40 3594 Apr 23 14:20 3594 May 03 00:12 3594 May 11 00:40 3594 May 20 23:12	26°Υ04'46 0°႘ 11°႘24'37 12°႘18'37 0°Ц 10°Д38'41 15°Д28'23	1°12'53	minimum elong evening rise asc. node evening max el retrograde evening set	3595 Mar 29 11:48 3595 Mar 29 16:27 3595 Apr 07 12:08 3595 Apr 09 11:50 3595 Apr 10 00:43 3595 Apr 23 22:18 3595 May 02 07:24 3595 May 04 10:55	8°Y59'24 26°Y07'42 0°8 1°802'06 22°841'04 26°846'38 26°831'35	1°38'36 18°53'20
minimum elong asc. node evening rise evening max el retrograde evening set	3594 Apr 15 09:55 3594 Apr 15 13:45 3594 Apr 17 12:46 3594 Apr 23 03:40 3594 Apr 23 14:20 3594 May 03 00:12 3594 May 11 00:40 3594 May 20 23:12 3594 May 22 22:29	26° Y 04'46 0° 8 11° 8 24'37 12° 8 18'37 0° П 10° П 38'41 15° П 28'23 15° П 17'51	1°12'53	minimum elong evening rise asc. node evening max el retrograde evening set inferior conj	3595 Mar 29 11:48 3595 Mar 29 16:27 3595 Apr 07 12:08 3595 Apr 09 11:50 3595 Apr 10 00:43 3595 Apr 23 22:18 3595 May 02 07:24 3595 May 04 10:55 3595 May 12 11:33	8°Y59'24 26°Y07'42 0°8 1°802'06 22°841'04 26°846'38 26°831'35 22°813'47	1°38'36 18°53'20 1°21'35
asc. node evening rise evening max el retrograde evening set desc. node	3594 Apr 15 09:55 3594 Apr 15 13:45 3594 Apr 17 12:46 3594 Apr 23 03:40 3594 Apr 23 14:20 3594 May 03 00:12 3594 May 11 00:40 3594 May 20 23:12 3594 May 22 22:29 3594 May 30 10:20	26°Y04'46 0°8 11°824'37 12°818'37 0°耳 10°耳38'41 15°耳28'23 15°耳17'51 12°耳05'11	1°12'53 19°46'33	minimum elong evening rise asc. node evening max el retrograde evening set inferior conj minimum elong	3595 Mar 29 11:48 3595 Mar 29 16:27 3595 Apr 07 12:08 3595 Apr 09 11:50 3595 Apr 10 00:43 3595 Apr 23 22:18 3595 May 02 07:24 3595 May 04 10:55 3595 May 12 11:33 3595 May 12 14:29	8°Y59'24 26°Y07'42 0°8 1°802'06 22°841'04 26°846'38 26°831'35 22°813'47 22°808'32	1°38'36 18°53'20 1°21'35 1°20'36
asc. node evening rise evening max el retrograde evening set desc. node inferior conj	3594 Apr 15 09:55 3594 Apr 15 13:45 3594 Apr 17 12:46 3594 Apr 23 03:40 3594 Apr 23 14:20 3594 May 03 00:12 3594 May 11 00:40 3594 May 20 23:12 3594 May 20 22:29 3594 May 30 10:20 3594 May 31 18:30	26°Y04'46 0°8 11°824'37 12°818'37 0°Д 10°Д38'41 15°Д28'23 15°Д17'51 12°Д05'11 11°Д16'00	1°12'53 19°46'33 -0°23'44	minimum elong evening rise asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist.	3595 Mar 29 11:48 3595 Mar 29 16:27 3595 Apr 07 12:08 3595 Apr 09 11:50 3595 Apr 10 00:43 3595 Apr 23 22:18 3595 May 02 07:24 3595 May 04 10:55 3595 May 12 11:33 3595 May 12 14:29 3595 May 15 15:52	8°Y59'24 26°Y07'42 0°8 1°802'06 22°841'04 26°846'38 26°831'35 22°813'47 22°808'32 19°858'03	1°38'36 18°53'20 1°21'35
asc. node evening rise evening max el retrograde evening set desc. node inferior conj minimum elong	3594 Apr 15 09:55 3594 Apr 15 13:45 3594 Apr 17 12:46 3594 Apr 23 03:40 3594 Apr 23 14:20 3594 May 03 00:12 3594 May 11 00:40 3594 May 20 23:12 3594 May 20 22:29 3594 May 30 10:20 3594 May 31 18:30 3594 May 31 17:26	26°Y04'46 0°8 11°824'37 12°818'37 0°Д 10°Д38'41 15°Д28'23 15°Д17'51 12°Д05'11 11°Д16'00 11°Д17'40	1°12'53 19°46'33 -0°23'44 0°23'20	minimum elong evening rise asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. desc. node	3595 Mar 29 11:48 3595 Mar 29 16:27 3595 Apr 07 12:08 3595 Apr 09 11:50 3595 Apr 10 00:43 3595 Apr 23 22:18 3595 May 02 07:24 3595 May 04 10:55 3595 May 12 11:33 3595 May 12 14:29 3595 May 15 15:52 3595 May 17 07:20	8°Y59'24 26°Y07'42 0°8 1°802'06 22°841'04 26°846'38 26°831'35 22°813'47 22°808'32 19°858'03 18°853'31	1°38'36 18°53'20 1°21'35 1°20'36
minimum elong asc. node evening rise evening max el retrograde evening set desc. node inferior conj minimum elong min. Earth dist.	3594 Apr 15 09:55 3594 Apr 15 13:45 3594 Apr 17 12:46 3594 Apr 23 03:40 3594 Apr 23 14:20 3594 May 03 00:12 3594 May 11 00:40 3594 May 20 23:12 3594 May 20 23:12 3594 May 30 10:20 3594 May 31 18:30 3594 May 31 17:26 3594 Jun 02 23:53	26°Y04'46 0°8 11°824'37 12°818'37 0°П 10°П38'41 15°П28'23 15°П17'51 12°П05'11 11°П16'00 11°П17'40 9°П53'45	1°12'53 19°46'33 -0°23'44 0°23'20	minimum elong evening rise asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. desc. node morning rise	3595 Mar 29 11:48 3595 Mar 29 16:27 3595 Apr 07 12:08 3595 Apr 09 11:50 3595 Apr 10 00:43 3595 Apr 23 22:18 3595 May 02 07:24 3595 May 04 10:55 3595 May 12 11:33 3595 May 12 14:29 3595 May 15 15:52 3595 May 17 07:20 3595 May 20 14:52	8°Y59'24 26°Y07'42 0°8 1°802'06 22°841'04 26°846'38 26°831'35 22°813'47 22°808'32 19°858'03 18°853'31 17°809'02	1°38'36 18°53'20 1°21'35 1°20'36
minimum elong asc. node evening rise evening max el retrograde evening set desc. node inferior conj minimum elong min. Earth dist. morning rise	3594 Apr 15 09:55 3594 Apr 15 13:45 3594 Apr 17 12:46 3594 Apr 23 03:40 3594 Apr 23 14:20 3594 May 03 00:12 3594 May 11 00:40 3594 May 20 23:12 3594 May 20 23:12 3594 May 30 10:20 3594 May 31 18:30 3594 May 31 17:26 3594 Jun 02 23:53 3594 Jun 09 10:07	26°Y04'46 0°8 11°824'37 12°818'37 0°II 10°II38'41 15°II28'23 15°II17'51 12°II05'11 11°II16'00 11°II17'40 9°II53'45 6°II46'43	1°12'53 19°46'33 -0°23'44 0°23'20	minimum elong evening rise asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. desc. node morning rise direct	3595 Mar 29 11:48 3595 Mar 29 16:27 3595 Apr 07 12:08 3595 Apr 09 11:50 3595 Apr 10 00:43 3595 Apr 23 22:18 3595 May 02 07:24 3595 May 04 10:55 3595 May 12 11:33 3595 May 12 14:29 3595 May 15 15:52 3595 May 17 07:20 3595 May 20 14:52 3595 May 20 14:52 3595 May 25 22:49	8°Y59'24 26°Y07'42 0°8 1°802'06 22°841'04 26°846'38 26°831'35 22°813'47 22°808'32 19°858'03 18°853'31 17°809'02 16°800'50	1°38'36 18°53'20 1°21'35 1°20'36 0.56965 AU
minimum elong asc. node evening rise evening max el retrograde evening set desc. node inferior conj minimum elong min. Earth dist. morning rise direct	3594 Apr 15 09:55 3594 Apr 15 13:45 3594 Apr 17 12:46 3594 Apr 23 03:40 3594 Apr 23 14:20 3594 May 03 00:12 3594 May 11 00:40 3594 May 20 23:12 3594 May 20 23:12 3594 May 30 10:20 3594 May 31 18:30 3594 May 31 17:26 3594 Jun 02 23:53 3594 Jun 09 10:07 3594 Jun 13 18:24	26°Y04'46 0°8 11°824'37 12°818'37 0°П 10°П38'41 15°П28'23 15°П17'51 12°П05'11 11°П16'00 11°П17'40 9°П53'45 6°П46'43 6°П04'58	1°12'53 19°46'33 -0°23'44 0°23'20 0.55500 AU	minimum elong evening rise asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. desc. node morning rise	3595 Mar 29 11:48 3595 Mar 29 16:27 3595 Apr 07 12:08 3595 Apr 09 11:50 3595 Apr 10 00:43 3595 Apr 23 22:18 3595 May 02 07:24 3595 May 04 10:55 3595 May 12 11:33 3595 May 12 14:29 3595 May 15 15:52 3595 May 17 07:20 3595 May 20 14:52 3595 May 20 14:52 3595 May 25 22:49 3595 Jun 09 06:37	8°Y59'24 26°Y07'42 0°8 1°802'06 22°841'04 26°846'38 26°831'35 22°813'47 22°808'32 19°858'03 18°853'31 17°809'02 16°800'50 23°827'23	1°38'36 18°53'20 1°21'35 1°20'36 0.56965 AU
minimum elong asc. node evening rise evening max el retrograde evening set desc. node inferior conj minimum elong min. Earth dist. morning rise	3594 Apr 15 09:55 3594 Apr 15 13:45 3594 Apr 17 12:46 3594 Apr 23 03:40 3594 Apr 23 14:20 3594 May 03 00:12 3594 May 11 00:40 3594 May 20 23:12 3594 May 20 23:12 3594 May 30 10:20 3594 May 31 18:30 3594 May 31 17:26 3594 Jun 02 23:53 3594 Jun 09 10:07 3594 Jun 09 10:07 3594 Jun 13 18:24 3594 Jun 27 15:43	26°Y04'46 0°8 11°824'37 12°818'37 0°П 10°П38'41 15°П28'23 15°П17'51 12°П05'11 11°П16'00 11°П17'40 9°П53'45 6°П46'43 6°П04'58 12°П59'53	1°12'53 19°46'33 -0°23'44 0°23'20 0.55500 AU	minimum elong evening rise asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. desc. node morning rise direct	3595 Mar 29 11:48 3595 Mar 29 16:27 3595 Apr 07 12:08 3595 Apr 09 11:50 3595 Apr 10 00:43 3595 Apr 23 22:18 3595 May 02 07:24 3595 May 04 10:55 3595 May 12 11:33 3595 May 12 14:29 3595 May 15 15:52 3595 May 17 07:20 3595 May 20 14:52 3595 May 20 14:52 3595 May 20 06:37 3595 Jun 09 06:37 3595 Jun 15 04:04	8°Y59'24 26°Y07'42 0°8 1°802'06 22°841'04 26°846'38 26°831'35 22°813'47 22°808'32 19°858'03 18°853'31 17°809'02 16°800'50 23°827'23 0°II	1°38'36 18°53'20 1°21'35 1°20'36 0.56965 AU
minimum elong asc. node evening rise evening max el retrograde evening set desc. node inferior conj minimum elong min. Earth dist. morning rise direct morning max el	3594 Apr 15 09:55 3594 Apr 15 13:45 3594 Apr 17 12:46 3594 Apr 23 03:40 3594 Apr 23 14:20 3594 May 03 00:12 3594 May 11 00:40 3594 May 20 23:12 3594 May 20 23:12 3594 May 30 10:20 3594 May 31 18:30 3594 May 31 17:26 3594 Jun 02 23:53 3594 Jun 09 10:07 3594 Jun 09 10:07 3594 Jun 13 18:24 3594 Jun 27 15:43 3594 Jul 10 18:45	26°Y04'46 0°と 11°と24'37 12°と18'37 0°用 10°用38'41 15°用28'23 15°用17'51 12°用05'11 11°用16'00 11°用17'40 9°用53'45 6°用46'43 6°用04'58 12°用59'53 0°等	1°12'53 19°46'33 -0°23'44 0°23'20 0.55500 AU	minimum elong evening rise asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. desc. node morning rise direct morning max el	3595 Mar 29 11:48 3595 Mar 29 16:27 3595 Apr 07 12:08 3595 Apr 09 11:50 3595 Apr 10 00:43 3595 Apr 23 22:18 3595 May 02 07:24 3595 May 04 10:55 3595 May 12 11:33 3595 May 12 14:29 3595 May 15 15:52 3595 May 17 07:20 3595 May 20 14:52 3595 May 20 14:52 3595 May 20 06:37 3595 Jun 09 06:37 3595 Jun 15 04:04 3595 Jul 03 13:54	8°Y59'24 26°Y07'42 0°8 1°802'06 22°841'04 26°846'38 26°831'35 22°813'47 22°808'32 19°858'03 18°853'31 17°809'02 16°800'50 23°827'23 0°11 0°55	1°38'36 18°53'20 1°21'35 1°20'36 0.56965 AU
minimum elong asc. node evening rise evening max el retrograde evening set desc. node inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node	3594 Apr 15 09:55 3594 Apr 15 13:45 3594 Apr 17 12:46 3594 Apr 23 03:40 3594 Apr 23 14:20 3594 May 03 00:12 3594 May 11 00:40 3594 May 20 23:12 3594 May 20 23:12 3594 May 30 10:20 3594 May 31 18:30 3594 May 31 17:26 3594 Jun 02 23:53 3594 Jun 02 23:53 3594 Jun 09 10:07 3594 Jun 13 18:24 3594 Jun 27 15:43 3594 Jul 10 18:45 3594 Jul 20 02:55	26°Y04'46 0°8 11°824'37 12°818'37 0°11 10°138'41 15°128'23 15°117'51 12°105'11 11°116'00 11°117'40 9°153'45 6°146'43 6°104'58 12°159'53 0°9 17°\$08'59	1°12'53 19°46'33 -0°23'44 0°23'20 0.55500 AU	minimum elong evening rise asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. desc. node morning rise direct morning max el	3595 Mar 29 11:48 3595 Mar 29 16:27 3595 Apr 07 12:08 3595 Apr 09 11:50 3595 Apr 10 00:43 3595 Apr 23 22:18 3595 May 02 07:24 3595 May 04 10:55 3595 May 12 11:33 3595 May 12 14:29 3595 May 15 15:52 3595 May 17 07:20 3595 May 20 14:52 3595 May 20 14:52 3595 May 20 14:52 3595 Jun 09 06:37 3595 Jun 09 06:37 3595 Jun 15 04:04 3595 Jul 03 13:54 3595 Jul 06 23:58	8°Y59'24 26°Y07'42 0°8 1°802'06 22°841'04 26°846'38 26°831'35 22°813'47 22°808'32 19°858'03 18°853'31 17°809'02 16°800'50 23°827'23 0°II 0°9 7°900'25	1°38'36 18°53'20 1°21'35 1°20'36 0.56965 AU
minimum elong asc. node evening rise evening max el retrograde evening set desc. node inferior conj minimum elong min. Earth dist. morning rise direct morning max el	3594 Apr 15 09:55 3594 Apr 15 13:45 3594 Apr 17 12:46 3594 Apr 23 03:40 3594 Apr 23 14:20 3594 May 03 00:12 3594 May 11 00:40 3594 May 20 23:12 3594 May 20 23:12 3594 May 30 10:20 3594 May 31 18:30 3594 May 31 17:26 3594 Jun 02 23:53 3594 Jun 09 10:07 3594 Jun 09 10:07 3594 Jun 13 18:24 3594 Jun 27 15:43 3594 Jul 10 18:45 3594 Jul 20 02:55 3594 Jul 22 21:52	26°Y04'46 0°8 11°824'37 12°818'37 0°11 10°138'41 15°128'23 15°117'51 12°105'11 11°116'00 11°117'40 9°153'45 6°146'43 6°104'58 12°159'53 0°9 17°908'59 22°956'17	1°12'53 19°46'33 -0°23'44 0°23'20 0.55500 AU	minimum elong evening rise asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. desc. node morning rise direct morning max el	3595 Mar 29 11:48 3595 Mar 29 16:27 3595 Apr 07 12:08 3595 Apr 09 11:50 3595 Apr 10 00:43 3595 Apr 23 22:18 3595 May 02 07:24 3595 May 04 10:55 3595 May 12 11:33 3595 May 12 14:29 3595 May 15 15:52 3595 May 17 07:20 3595 May 20 14:52 3595 May 20 14:52 3595 May 20 06:37 3595 Jun 09 06:37 3595 Jun 15 04:04 3595 Jul 03 13:54	8°Y59'24 26°Y07'42 0°8 1°802'06 22°841'04 26°846'38 26°831'35 22°813'47 22°808'32 19°858'03 18°853'31 17°809'02 16°800'50 23°827'23 0°11 0°55	1°38'36 18°53'20 1°21'35 1°20'36 0.56965 AU
minimum elong asc. node evening rise evening max el retrograde evening set desc. node inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node	3594 Apr 15 09:55 3594 Apr 15 13:45 3594 Apr 17 12:46 3594 Apr 23 03:40 3594 Apr 23 14:20 3594 May 03 00:12 3594 May 11 00:40 3594 May 20 23:12 3594 May 20 23:12 3594 May 30 10:20 3594 May 31 18:30 3594 May 31 17:26 3594 Jun 02 23:53 3594 Jun 02 23:53 3594 Jun 09 10:07 3594 Jun 13 18:24 3594 Jun 27 15:43 3594 Jul 10 18:45 3594 Jul 20 02:55	26°Y04'46 0°8 11°824'37 12°818'37 0°11 10°138'41 15°128'23 15°117'51 12°105'11 11°116'00 11°117'40 9°153'45 6°146'43 6°104'58 12°159'53 0°9 17°\$08'59	1°12'53 19°46'33 -0°23'44 0°23'20 0.55500 AU	minimum elong evening rise asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. desc. node morning rise direct morning max el asc. node morning set	3595 Mar 29 11:48 3595 Mar 29 16:27 3595 Apr 07 12:08 3595 Apr 09 11:50 3595 Apr 10 00:43 3595 Apr 23 22:18 3595 May 02 07:24 3595 May 04 10:55 3595 May 12 11:33 3595 May 12 14:29 3595 May 15 15:52 3595 May 17 07:20 3595 May 20 14:52 3595 May 20 14:52 3595 May 20 14:52 3595 May 20 14:52 3595 Jun 09 06:37 3595 Jun 09 06:37 3595 Jul 03 13:54 3595 Jul 06 23:58 3595 Jul 07 09:07	8°Y59'24 26°Y07'42 0°8 1°802'06 22°841'04 26°846'38 26°831'35 22°813'47 22°808'32 19°858'03 18°853'31 17°809'02 16°800'50 23°827'23 0°II 0°99 7°9900'25 7°9948'39	1°38'36 18°53'20 1°21'35 1°20'36 0.56965 AU 26°01'44
minimum elong asc. node evening rise evening max el retrograde evening set desc. node inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set	3594 Apr 15 09:55 3594 Apr 15 13:45 3594 Apr 17 12:46 3594 Apr 23 03:40 3594 Apr 23 14:20 3594 May 03 00:12 3594 May 11 00:40 3594 May 20 23:12 3594 May 22 22:29 3594 May 30 10:20 3594 May 31 18:30 3594 May 31 17:26 3594 Jun 02 23:53 3594 Jun 09 10:07 3594 Jun 13 18:24 3594 Jun 27 15:43 3594 Jul 10 18:45 3594 Jul 20 02:55 3594 Jul 22 21:52 3594 Jul 26 04:48	26°Y04'46 0°8 11°824'37 12°818'37 0°1 10°138'41 15°128'23 15°117'51 12°105'11 11°116'00 11°117'40 9°153'45 6°146'43 6°104'58 12°159'53 0°9 17°908'59 22°956'17 0°Ω	1°12'53 19°46'33 -0°23'44 0°23'20 0.55500 AU 24°27'20	minimum elong evening rise asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. desc. node morning rise direct morning max el asc. node morning set superior conj	3595 Mar 29 11:48 3595 Mar 29 16:27 3595 Apr 07 12:08 3595 Apr 09 11:50 3595 Apr 10 00:43 3595 Apr 23 22:18 3595 May 02 07:24 3595 May 04 10:55 3595 May 12 11:33 3595 May 12 14:29 3595 May 15 15:52 3595 May 17 07:20 3595 May 20 14:52 3595 Jun 09 06:37 3595 Jun 09 06:37 3595 Jul 03 13:54 3595 Jul 06 23:58 3595 Jul 07 09:07	8°Y59'24 26°Y07'42 0°8 1°802'06 22°841'04 26°846'38 26°831'35 22°813'47 22°808'32 19°858'03 18°853'31 17°809'02 16°800'50 23°827'23 0°11 0°9 7°900'25 7°948'39	1°38'36 18°53'20 1°21'35 1°20'36 0.56965 AU 26°01'44
minimum elong asc. node evening rise evening max el retrograde evening set desc. node inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set	3594 Apr 15 09:55 3594 Apr 15 13:45 3594 Apr 17 12:46 3594 Apr 23 03:40 3594 Apr 23 14:20 3594 May 03 00:12 3594 May 11 00:40 3594 May 20 23:12 3594 May 20 23:12 3594 May 30 10:20 3594 May 31 18:30 3594 May 31 17:26 3594 Jun 02 23:53 3594 Jun 09 10:07 3594 Jun 13 18:24 3594 Jun 27 15:43 3594 Jul 20 02:55 3594 Jul 20 02:55 3594 Jul 20 02:55 3594 Jul 26 04:48	26°Y04'46 0°8 11°824'37 12°818'37 0° II 10°I38'41 15°I28'23 15°I17'51 12°I05'11 11°I16'00 11°I17'40 9°I53'45 6°I46'43 6°I04'58 12°I59'53 0° I7° I7° I8° I8° I8° I8° I8° I8° I8° I8° I8° I8	1°12'53 19°46'33 -0°23'44 0°23'20 0.55500 AU 24°27'20	minimum elong evening rise asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. desc. node morning rise direct morning max el asc. node morning set superior conj minimum elong	3595 Mar 29 11:48 3595 Mar 29 16:27 3595 Apr 07 12:08 3595 Apr 09 11:50 3595 Apr 10 00:43 3595 Apr 23 22:18 3595 May 02 07:24 3595 May 04 10:55 3595 May 12 11:33 3595 May 12 14:29 3595 May 15 15:52 3595 May 17 07:20 3595 May 20 14:52 3595 May 20 14:52 3595 May 20 14:52 3595 May 20 14:52 3595 Jun 09 06:37 3595 Jun 09 06:37 3595 Jul 03 13:54 3595 Jul 06 23:58 3595 Jul 07 09:07	8°Y59'24 26°Y07'42 0°8 1°802'06 22°841'04 26°846'38 26°831'35 22°813'47 22°808'32 19°858'03 18°853'31 17°809'02 16°800'50 23°827'23 0°II 0°9 7°900'25 7°948'39 22°957'00 22°944'09	1°38'36 18°53'20 1°21'35 1°20'36 0.56965 AU 26°01'44
minimum elong asc. node evening rise evening max el retrograde evening set desc. node inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set	3594 Apr 15 09:55 3594 Apr 15 13:45 3594 Apr 17 12:46 3594 Apr 23 03:40 3594 Apr 23 14:20 3594 May 03 00:12 3594 May 11 00:40 3594 May 20 23:12 3594 May 20 23:12 3594 May 30 10:20 3594 May 31 18:30 3594 May 31 17:26 3594 Jun 02 23:53 3594 Jun 09 10:07 3594 Jun 09 10:07 3594 Jun 27 15:43 3594 Jul 20 02:55 3594 Jul 20 02:55 3594 Jul 20 02:55 3594 Jul 20 02:55 3594 Jul 20 04:48	26°Y04'46 0°8 11°824'37 12°818'37 0°1 10°138'41 15°128'23 15°117'51 12°105'11 11°116'00 11°117'40 9°153'45 6°146'43 6°104'58 12°159'53 0°9 17°908'59 22°956'17 0°0 8°001'10 7°049'03	1°12'53 19°46'33 -0°23'44 0°23'20 0.55500 AU 24°27'20 1°26'38 1°26'22	minimum elong evening rise asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. desc. node morning rise direct morning max el asc. node morning set superior conj	3595 Mar 29 11:48 3595 Mar 29 16:27 3595 Apr 07 12:08 3595 Apr 09 11:50 3595 Apr 10 00:43 3595 Apr 23 22:18 3595 May 02 07:24 3595 May 04 10:55 3595 May 12 11:33 3595 May 12 14:29 3595 May 15 15:52 3595 May 17 07:20 3595 May 20 14:52 3595 May 20 14:52 3595 May 20 14:52 3595 May 25 22:49 3595 Jun 09 06:37 3595 Jun 09 06:37 3595 Jul 03 13:54 3595 Jul 06 23:58 3595 Jul 07 09:07	8°Y59'24 26°Y07'42 0°8 1°802'06 22°841'04 26°846'38 26°831'35 22°813'47 22°808'32 19°858'03 18°853'31 17°809'02 16°800'50 23°827'23 0°II 0°9 7°900'25 7°948'39 22°957'00 22°944'09 24°927'38	1°38'36 18°53'20 1°21'35 1°20'36 0.56965 AU 26°01'44
asc. node evening rise evening max el retrograde evening set desc. node inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set	3594 Apr 15 09:55 3594 Apr 15 13:45 3594 Apr 17 12:46 3594 Apr 23 03:40 3594 Apr 23 14:20 3594 May 03 00:12 3594 May 11 00:40 3594 May 20 23:12 3594 May 20 23:12 3594 May 30 10:20 3594 May 31 18:30 3594 May 31 17:26 3594 Jun 02 23:53 3594 Jun 09 10:07 3594 Jun 09 10:07 3594 Jun 13 18:24 3594 Jun 27 15:43 3594 Jul 20 02:55 3594 Jul 20 02:55 3594 Jul 22 21:52 3594 Jul 29 18:55 3594 Jul 29 18:55 3594 Jul 29 18:55 3594 Jul 29 18:55	26°Y04'46 0°8 11°824'37 12°818'37 0°П 10°П38'41 15°П28'23 15°П17'51 12°П05'11 11°П16'00 11°П17'40 9°П53'45 6°П46'43 6°П04'58 12°П59'53 0°© 17°©08'59 22°©56'17 0°Л 8°Л01'10 7°Л49'03 11°Л50'28	1°12'53 19°46'33 -0°23'44 0°23'20 0.55500 AU 24°27'20	minimum elong evening rise asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. desc. node morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist.	3595 Mar 29 11:48 3595 Mar 29 16:27 3595 Apr 07 12:08 3595 Apr 09 11:50 3595 Apr 10 00:43 3595 Apr 23 22:18 3595 May 02 07:24 3595 May 04 10:55 3595 May 12 11:33 3595 May 12 14:29 3595 May 15 15:52 3595 May 17 07:20 3595 May 20 14:52 3595 May 20 14:52 3595 May 20 14:52 3595 May 20 14:52 3595 Jun 09 06:37 3595 Jun 15 04:04 3595 Jun 07 09:07	8°Y59'24 26°Y07'42 0°8 1°802'06 22°841'04 26°846'38 26°831'35 22°813'47 22°808'32 19°858'03 18°853'31 17°809'02 16°800'50 23°827'23 0°II 0°\$ 7°\$00'25 7°\$48'39 22°\$57'00 22°\$44'09 24°\$27'38 0°\$	1°38'36 18°53'20 1°21'35 1°20'36 0.56965 AU 26°01'44
minimum elong asc. node evening rise evening max el retrograde evening set desc. node inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set	3594 Apr 15 09:55 3594 Apr 15 13:45 3594 Apr 17 12:46 3594 Apr 23 03:40 3594 Apr 23 14:20 3594 May 03 00:12 3594 May 11 00:40 3594 May 20 23:12 3594 May 30 10:20 3594 May 31 18:30 3594 May 31 17:26 3594 Jun 02 23:53 3594 Jun 09 10:07 3594 Jun 09 10:07 3594 Jun 13 18:24 3594 Jun 27 15:43 3594 Jul 20 02:55 3594 Jul 20 02:55 3594 Jul 20 02:55 3594 Jul 22 21:52 3594 Jul 29 18:55 3594 Jul 29 18:55 3594 Jul 31 15:29 3594 Aug 06 04:16	26°Y04'46 0°8 11°824'37 12°818'37 0°11 10°138'41 15°128'23 15°117'51 12°105'11 11°116'00 11°117'40 9°153'45 6°146'43 6°104'58 12°159'53 0°5 17°508'59 22°556'17 0°0 8°001'10 7°049'03 11°050'28 23°027'44	1°12'53 19°46'33 -0°23'44 0°23'20 0.55500 AU 24°27'20 1°26'38 1°26'22	minimum elong evening rise asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. desc. node morning rise direct morning max el asc. node morning set superior conj minimum elong	3595 Mar 29 11:48 3595 Mar 29 16:27 3595 Apr 07 12:08 3595 Apr 09 11:50 3595 Apr 10 00:43 3595 Apr 23 22:18 3595 May 02 07:24 3595 May 04 10:55 3595 May 12 11:33 3595 May 12 14:29 3595 May 15 15:52 3595 May 17 07:20 3595 May 20 14:52 3595 May 20 14:52 3595 May 20 14:52 3595 May 20 14:52 3595 Jul 00:37 3595 Jul 10:3595 3595 Jul 10:3595 3595 Jul 10:3595 3595 Jul 10:555 3595 Jul 11:500:44 3595 Jul 17 13:34 3595 Jul 21 07:50	8°Y59'24 26°Y07'42 0°8 1°802'06 22°841'04 26°846'38 26°831'35 22°813'47 22°808'32 19°858'03 18°853'31 17°809'02 16°800'50 23°827'23 0°11 0°9 7°900'25 7°948'39 22°957'00 22°944'09 24°927'38 0°10 8°100'38	1°38'36 18°53'20 1°21'35 1°20'36 0.56965 AU 26°01'44
minimum elong asc. node evening rise evening max el retrograde evening set desc. node inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set	3594 Apr 15 09:55 3594 Apr 15 13:45 3594 Apr 17 12:46 3594 Apr 23 03:40 3594 Apr 23 14:20 3594 May 03 00:12 3594 May 11 00:40 3594 May 20 23:12 3594 May 30 10:20 3594 May 31 18:30 3594 May 31 17:26 3594 Jun 02 23:53 3594 Jun 09 10:07 3594 Jun 09 10:07 3594 Jun 13 18:24 3594 Jun 27 15:43 3594 Jul 20 02:55 3594 Jul 21:08 3594 Jul 29 18:55 3594 Jul 31 15:29 3594 Aug 06 04:16 3594 Aug 09 11:13	26°Y04'46 0°8 11°824'37 12°818'37 0°11 10°138'41 15°128'23 15°117'51 12°105'11 11°116'00 11°117'40 9°153'45 6°146'43 6°104'58 12°159'53 0°5 17°508'59 22°556'17 0°10 8°101'10 7°104'03 11°1050'28 23°1027'44 0°10	1°12'53 19°46'33 -0°23'44 0°23'20 0.55500 AU 24°27'20 1°26'38 1°26'22	minimum elong evening rise asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. desc. node morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise	3595 Mar 29 11:48 3595 Mar 29 16:27 3595 Apr 07 12:08 3595 Apr 09 11:50 3595 Apr 10 00:43 3595 Apr 23 22:18 3595 May 02 07:24 3595 May 04 10:55 3595 May 12 11:33 3595 May 12 14:29 3595 May 15 15:52 3595 May 17 07:20 3595 May 20 14:52 3595 May 20 14:52 3595 May 20 14:52 3595 May 20 14:52 3595 Jun 09 06:37 3595 Jun 15 04:04 3595 Jun 07 09:07	8°Y59'24 26°Y07'42 0°8 1°802'06 22°841'04 26°846'38 26°831'35 22°813'47 22°808'32 19°858'03 18°853'31 17°809'02 16°800'50 23°827'23 0°11 0°5 7°500'25 7°548'39 22°557'00 22°544'09 24°527'38 0°10 8°100'38	1°38'36 18°53'20 1°21'35 1°20'36 0.56965 AU 26°01'44
asc. node evening rise evening max el retrograde evening set desc. node inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set	3594 Apr 15 09:55 3594 Apr 15 13:45 3594 Apr 17 12:46 3594 Apr 23 03:40 3594 Apr 23 14:20 3594 May 03 00:12 3594 May 11 00:40 3594 May 20 23:12 3594 May 30 10:20 3594 May 31 18:30 3594 May 31 17:26 3594 Jun 02 23:53 3594 Jun 09 10:07 3594 Jun 09 10:07 3594 Jun 13 18:24 3594 Jun 27 15:43 3594 Jul 20 02:55 3594 Jul 21:08 3594 Jul 29 18:55 3594 Jul 29 18:55 3594 Jul 31 15:29 3594 Aug 06 04:16 3594 Aug 09 11:13 3594 Aug 26 09:38	26°Y04'46 0°8 11°824'37 12°818'37 0°11 10°138'41 15°128'23 15°117'51 12°105'11 11°116'00 11°117'40 9°153'45 6°146'43 6°104'58 12°159'53 0°5 17°508'59 22°556'17 0°0 8°001'10 7°049'03 11°050'28 23°027'44 0°10 28°1029'53	1°12'53 19°46'33 -0°23'44 0°23'20 0.55500 AU 24°27'20 1°26'38 1°26'22	minimum elong evening rise asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. desc. node morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise desc. node	3595 Mar 29 11:48 3595 Mar 29 16:27 3595 Apr 07 12:08 3595 Apr 09 11:50 3595 Apr 10 00:43 3595 Apr 23 22:18 3595 May 02 07:24 3595 May 04 10:55 3595 May 12 11:33 3595 May 12 14:29 3595 May 15 15:52 3595 May 17 07:20 3595 May 20 14:52 3595 May 20 14:52 3595 May 20 14:52 3595 May 20 14:52 3595 Jun 09 06:37 3595 Jun 09 06:37 3595 Jun 09 06:37 3595 Jul 06 23:58 3595 Jul 07 09:07 3595 Jul 14 08:15 3595 Jul 14 08:15 3595 Jul 14 05:55 3595 Jul 15 00:44 3595 Jul 17 13:34 3595 Jul 21 07:50 3595 Aug 01 21:26 3595 Aug 01 21:26 3595 Aug 13 06:38	8°Y59'24 26°Y07'42 0°8 1°802'06 22°841'04 26°846'38 26°831'35 22°813'47 22°808'32 19°858'03 18°853'31 17°809'02 16°800'50 23°827'23 0°11 0°9 7°900'25 7°948'39 22°957'00 22°944'09 24°927'38 0°\$ 8°\$\O0'38 0°\$\pi\$ 17°\$\pi09'44	1°38'36 18°53'20 1°21'35 1°20'36 0.56965 AU 26°01'44 1°10'24 1°10'01 1.32298 AU
minimum elong asc. node evening rise evening max el retrograde evening set desc. node inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set	3594 Apr 15 09:55 3594 Apr 15 13:45 3594 Apr 17 12:46 3594 Apr 23 03:40 3594 Apr 23 14:20 3594 May 03 00:12 3594 May 11 00:40 3594 May 20 23:12 3594 May 30 10:20 3594 May 31 18:30 3594 May 31 17:26 3594 Jun 02 23:53 3594 Jun 09 10:07 3594 Jun 09 10:07 3594 Jun 13 18:24 3594 Jun 27 15:43 3594 Jul 20 02:55	26°Y04'46 0°8 11°824'37 12°818'37 0°11 10°138'41 15°128'23 15°117'51 12°105'11 11°116'00 11°117'40 9°153'45 6°146'43 6°104'58 12°159'53 0°5 17°508'59 22°556'17 0°10 8°101'10 7°104'03 11°1050'28 23°1027'44 0°10	1°12'53 19°46'33 -0°23'44 0°23'20 0.55500 AU 24°27'20 1°26'38 1°26'22 1.32946 AU	minimum elong evening rise asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. desc. node morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise	3595 Mar 29 11:48 3595 Mar 29 16:27 3595 Apr 07 12:08 3595 Apr 09 11:50 3595 Apr 10 00:43 3595 Apr 23 22:18 3595 May 02 07:24 3595 May 04 10:55 3595 May 12 11:33 3595 May 12 14:29 3595 May 15 15:52 3595 May 17 07:20 3595 May 20 14:52 3595 May 20 14:52 3595 Jun 09 06:37 3595 Jun 09 06:37 3595 Jun 15 04:04 3595 Jul 03 13:54 3595 Jul 06 23:58 3595 Jul 07 09:07 3595 Jul 14 08:15 3595 Jul 14 08:15 3595 Jul 14 05:55 3595 Jul 15 00:44 3595 Jul 17 13:34 3595 Jul 17 13:34 3595 Jul 21 07:50 3595 Aug 01 21:26 3595 Aug 13 06:38 3595 Aug 21 15:46	8°Y59'24 26°Y07'42 0°8 1°802'06 22°841'04 26°846'38 26°831'35 22°813'47 22°808'32 19°858'03 18°853'31 17°809'02 16°800'50 23°827'23 0°11 0°9 7°900'25 7°948'39 22°957'00 22°944'09 24°927'38 0°\$ 8°\$\O0'38 0°\$\P\$ 17°\$\P\$09'44 26°\$\P\$39'34	1°38'36 18°53'20 1°21'35 1°20'36 0.56965 AU 26°01'44
minimum elong asc. node evening rise evening max el retrograde evening set desc. node inferior conj 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	3594 Apr 15 09:55 3594 Apr 15 13:45 3594 Apr 17 12:46 3594 Apr 23 03:40 3594 Apr 23 14:20 3594 May 03 00:12 3594 May 11 00:40 3594 May 20 23:12 3594 May 30 10:20 3594 May 31 18:30 3594 May 31 17:26 3594 Jun 02 23:53 3594 Jun 09 10:07 3594 Jun 09 10:07 3594 Jun 13 18:24 3594 Jun 27 15:43 3594 Jul 20 02:55 3594 Jul 21:08 3594 Jul 29 18:55 3594 Jul 29 18:55 3594 Jul 31 15:29 3594 Aug 06 04:16 3594 Aug 09 11:13 3594 Aug 26 09:38	26°Y04'46 0°8 11°824'37 12°818'37 0°11 10°138'41 15°128'23 15°117'51 12°105'11 11°116'00 11°117'40 9°153'45 6°146'43 6°104'58 12°159'53 0°5 17°508'59 22°556'17 0°0 8°001'10 7°049'03 11°050'28 23°027'44 0°10 28°1029'53 0°5	1°12'53 19°46'33 -0°23'44 0°23'20 0.55500 AU 24°27'20 1°26'38 1°26'22 1.32946 AU	minimum elong evening rise asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. desc. node morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise desc. node evening max el	3595 Mar 29 11:48 3595 Mar 29 16:27 3595 Apr 07 12:08 3595 Apr 09 11:50 3595 Apr 10 00:43 3595 Apr 23 22:18 3595 May 02 07:24 3595 May 04 10:55 3595 May 12 11:33 3595 May 12 14:29 3595 May 15 15:52 3595 May 17 07:20 3595 May 20 14:52 3595 May 20 14:52 3595 Jun 09 06:37 3595 Jun 09 06:37 3595 Jun 09 06:37 3595 Jul 03 13:54 3595 Jul 03 13:54 3595 Jul 07 09:07 3595 Jul 14 08:15 3595 Jul 14 05:55 3595 Jul 15 00:44 3595 Jul 17 13:34 3595 Jul 21 07:50 3595 Aug 01 21:26 3595 Aug 13 06:38 3595 Aug 21 15:46 3595 Aug 25 14:53	8°Y59'24 26°Y07'42 0°8 1°802'06 22°841'04 26°846'38 26°831'35 22°813'47 22°808'32 19°858'03 18°853'31 17°809'02 16°800'50 23°827'23 0°11 0°9 7°900'25 7°948'39 22°957'00 22°944'09 24°927'38 0°\$ 8°\$\O0'38 0°\$\pi\$ 17°\$\pi09'44	1°38'36 18°53'20 1°21'35 1°20'36 0.56965 AU 26°01'44 1°10'24 1°10'01 1.32298 AU
minimum elong asc. node evening rise evening max el retrograde evening set desc. node inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set	3594 Apr 15 09:55 3594 Apr 15 13:45 3594 Apr 17 12:46 3594 Apr 23 03:40 3594 Apr 23 14:20 3594 May 03 00:12 3594 May 11 00:40 3594 May 20 23:12 3594 May 30 10:20 3594 May 31 18:30 3594 May 31 17:26 3594 Jun 02 23:53 3594 Jun 02 23:53 3594 Jun 02 10:07 3594 Jun 13 18:24 3594 Jun 27 15:43 3594 Jul 20 02:55	26°Y04'46 0°႘ 11°႘24'37 12°႘18'37 0°Ⅱ 10°Ⅲ38'41 15°Ⅲ28'23 15°Ⅲ17'51 12°Ⅲ05'11 11°Ⅲ16'00 11°Ⅲ17'40 9°Ⅲ53'45 6°Ⅲ46'43 6°Ⅲ04'58 12°Ⅲ59'53 0°ᡂ 17°ᡂ08'59 22°ᡂ56'17 0°Ո 8°Ո01'10 7°Ո49'03 11°Л50'28 23°Л27'44 0°№ 28°№29'53 0°Ф	1°12'53 19°46'33 -0°23'44 0°23'20 0.55500 AU 24°27'20 1°26'38 1°26'22 1.32946 AU	minimum elong evening rise asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. desc. node morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise desc. node	3595 Mar 29 11:48 3595 Mar 29 16:27 3595 Apr 07 12:08 3595 Apr 09 11:50 3595 Apr 10 00:43 3595 Apr 23 22:18 3595 May 02 07:24 3595 May 04 10:55 3595 May 12 11:33 3595 May 12 14:29 3595 May 15 15:52 3595 May 17 07:20 3595 May 20 14:52 3595 May 20 14:52 3595 Jun 09 06:37 3595 Jun 09 06:37 3595 Jun 15 04:04 3595 Jul 03 13:54 3595 Jul 06 23:58 3595 Jul 07 09:07 3595 Jul 14 08:15 3595 Jul 14 08:15 3595 Jul 14 05:55 3595 Jul 15 00:44 3595 Jul 17 13:34 3595 Jul 17 13:34 3595 Jul 21 07:50 3595 Aug 01 21:26 3595 Aug 13 06:38 3595 Aug 21 15:46	8°Y59'24 26°Y07'42 0°8 1°802'06 22°841'04 26°846'38 26°831'35 22°813'47 22°808'32 19°858'03 18°853'31 17°809'02 16°800'50 23°827'23 0°II 0°9 7°900'25 7°948'39 22°957'00 22°944'09 24°927'38 0°IQ 8°IQ00'38 0°IQ 17°IQ09'44 26°IQ39'34 0°9	1°38'36 18°53'20 1°21'35 1°20'36 0.56965 AU 26°01'44 1°10'24 1°10'01 1.32298 AU

	3595 Sep 13 20:53	30°R M⊅		evening set	3596 Aug 23 04:06	13° m 49'22	
min. Earth dist.	3595 Sep 15 26:03	28° m 52'20	0.61419 AU	min. Earth dist.	3596 Aug 27 04:44		0.59354 AU
inferior conj	3595 Sep 18 08:39	26° m 08'23		inferior conj	3596 Aug 30 11:32	8° Mp 43'16	
minimum elong	3595 Sep 18 14:28	25° m 55'35		minimum elong	3596 Aug 30 15:43	8° m/35'13	
morning rise	3595 Sep 25 15:50	21° m) 13'42		morning rise	3596 Sep 07 05:31	4° m)11'18	
direct	3595 Sep 28 00:45	20° m 50'25		direct	3596 Sep 09 15:26	3° m 51'03	
asc. node	3595 Oct 02 23:11	22° m/35'19		morning max el	3596 Sep 17 11:21	7° m 38'04	18°22'56
morning max el	3595 Oct 05 01:46	24° Mp 21'55	17°57'00	asc. node	3596 Sep 18 20:14	9° ™ 03'13	
	3595 Oct 09 15:52	0∘ 亚			3596 Oct 01 20:01	0∘ ⊽	
morning set	3595 Oct 20 21:17	19° ≙ 15'17		morning set	3596 Oct 03 11:08	3° ჲ 06′29	
	3595 Oct 26 18:58	0° M					
				superior conj	3596 Oct 12 13:54	20° ≏ 20'58	1°24'56
superior conj	3595 Oct 31 06:04	7° M 54'18	1°00'02	minimum elong	3596 Oct 12 17:31	20° ჲ 37'33	1°24'34
minimum elong	3595 Oct 31 10:18	8°M12'43	0°59'30		3596 Oct 17 22:45	0° M	
max. Earth dist.	3595 Nov 07 18:46	20°M40'31	1.42478 AU	max. Earth dist.	3596 Oct 20 02:05	3°M42'56	1.40540 AU
desc. node	3595 Nov 09 05:56	23°M04'50		evening rise	3596 Oct 24 13:59	11°M17'28	
	3595 Nov 13 13:08	0° ∡ ¹		desc. node	3596 Oct 26 02:57	13°M49'07	
evening rise	3595 Nov 14 02:06	0° ∡ ′51′22			3596 Nov 05 11:48	0° ∡	
	3595 Dec 03 15:32	0° ろ		evening max el	3596 Nov 28 02:27	29° ∡ 36′53	23°29'13
evening max el	3595 Dec 16 11:38		22°09'28		3596 Nov 28 11:47	0°る	
retrograde	3595 Dec 25 22:41	21° る 38'51		retrograde	3596 Dec 08 16:30	5° る 52'35	
asc. node	3595 Dec 29 22:27	20°る13'38		evening set	3596 Dec 13 16:52	3° る 48'01	
evening set	3595 Dec 30 10:27	19° る 50'29	1050150	asc. node	3596 Dec 15 19:29	1°る40'27	
inferior conj	3596 Jan 04 18:51	13° る 30'22	1°52'59	' P d I'	3596 Dec 17 04:04	30°₹ ⋌ 7	0.67002.444
minimum elong	3596 Jan 04 16:38	13° そ 38'03	1°52'12	min. Earth dist.	3596 Dec 18 14:55	28° 🗷 03'09	0.67903 AU
min. Earth dist.	3596 Jan 04 18:06	13° る 32'58	0.67946 AU	inferior conj	3596 Dec 19 02:31	27° 🖈 23'25	1°06'09
morning rise	3596 Jan 09 22:42	7° る 19'35		minimum elong	3596 Dec 19 01:02	27° 🖈 28'29	1°05'34
direct	3596 Jan 14 17:08	5° る 19'17	22925124	morning rise	3596 Dec 24 09:10	21°×716'38	
morning max el	3596 Jan 24 06:47	10°る57'46 25°る40'22	22-25-34	direct	3596 Dec 28 13:21	19° 🗷 39'08	21902110
desc. node	3596 Feb 05 05:11 3596 Feb 08 07:09	23 3 40 22 0° ≈		morning max el	3597 Jan 05 23:15 3597 Jan 10 18:42	24°♂31'35 0°♂	21 03 19
morning set	3596 Feb 08 07.09 3596 Feb 26 22:57	0 ≈ 28°≈32'05		desc. node	3597 Jan 10 18.42 3597 Jan 22 02:13	0 る 15° る 34'18	
morning set	3596 Feb 27 20:27	28 ≈ 32 03		desc. Hode	3597 Jan 22 02:13 3597 Jan 31 17:08	0°≈	
max. Earth dist.	3596 Mar 03 01:40	7° ₩ 01'45	1.40612 AU	morning set	3597 Feb 05 08:32	0 ~ 7° ≈ 11'54	
max. Latur dist.	3370 Wai 03 01.40	7 7(01 43	1.40012 AO	max. Earth dist.	3597 Feb 13 04:14	19°≈42'01	1.42594 AU
superior conj	3596 Mar 10 20:38	20°) 37'39	-1°58'33	max. Lartii dist.	3597 Feb 19 08:58	0°) €	1.425)4 AO
minimum elong	3596 Mar 11 00:30		1°58'19		3377100 17 00.30	٠ ,	
g	3596 Mar 15 23:34	0°Υ	1 00 19	superior conj	3597 Feb 20 07:21	1° ¥ 34'59	-2°07'06
evening rise	3596 Mar 20 23:43	9° Y 23'06		minimum elong	3597 Feb 20 07:42	1°) (36'32	
asc. node	3596 Mar 26 21:45	20° Υ 19'26		evening rise	3597 Mar 03 21:10	21°) 55'48	
	3596 Apr 01 19:59	0°8		C	3597 Mar 08 09:26	$0^{\circ}\Upsilon$	
evening max el	3596 Apr 06 04:17	5° 8 17'06	18°20'23	asc. node	3597 Mar 13 18:49	9° Y 09'55	
retrograde	3596 Apr 13 10:39	8° 8 53'47		evening max el	3597 Mar 20 15:17	18° Y 18′02	18°07'17
evening set	3596 Apr 15 20:35	8° 8 30'51		retrograde	3597 Mar 27 06:26	21° Y 41'42	
inferior conj	3596 Apr 23 02:09	3° 8 53'05	2°35'56	evening set	3597 Mar 29 22:34	21° Y '08'42	
minimum elong	3596 Apr 23 05:49	3° 8 45'21	2°35'02	inferior conj	3597 Apr 05 12:24	16° Ƴ 10′27	3°18'58
min. Earth dist.	3596 Apr 26 12:41	1° 8 01'13	0.58963 AU	minimum elong	3597 Apr 05 14:49	16° Ƴ 04'36	3°18'37
	3596 Apr 27 20:46	30° ŖƳ		min. Earth dist.	3597 Apr 08 16:32	13° Y 07'12	0.61145 AU
morning rise	3596 Apr 30 12:12	28° Ƴ 18′09		morning rise	3597 Apr 12 05:10	10° Y 16′03	
desc. node	3596 May 03 04:23	27° Ƴ 08'30		direct	3597 Apr 18 23:19	7° Y 58'46	
direct	3596 May 06 17:14	26° Ƴ 34'52		desc. node	3597 Apr 20 01:25	8° Y 02'10	
	3596 May 15 22:49	$0^{\circ}S$		morning max el	3597 May 03 04:47	15° Y 55'11	27°47'37
morning max el	3596 May 21 02:35	4° 8 21'17	27°11'56		3597 May 14 17:20	0°8	
	3596 Jun 08 22:04	$\Pi^{\circ}0$			3597 Jun 01 11:06	$\Pi^{\circ}0$	
morning set	3596 Jun 20 18:08	22° I I32'26		morning set	3597 Jun 04 23:07	7° Ⅱ 01'42	
asc. node	3596 Jun 22 21:00	27° Ⅱ 02'00		asc. node	3597 Jun 09 18:05	17° Ⅱ 09'16	
	3596 Jun 24 05:59	0ං ව		max. Earth dist.	3597 Jun 10 22:58	19° Ⅱ 46′08	1.32214 AU
	2506 1 27 20 00	70~51150	0050107		2507 1 12 06 5:	220T (212 -	0026122
superior conj	3596 Jun 27 20:03	7°951'59	0°50'07	superior conj	3597 Jun 12 06:54	22° ∏ 40'35	0°26'23
minimum elong	3596 Jun 27 18:05	7°9541'07	0°49'43	minimum elong	3597 Jun 12 05:43	22° II 34'08	0°26'07
max. Earth dist.	3596 Jun 27 12:29	7°510'14	1.32051 AU	avanii-	3597 Jun 15 15:02	0°ഇ 7° ഇ 35'29	
evening rise	3596 Jul 04 16:13 3596 Jul 08 04:25	22° © 45'26 0° Ω		evening rise	3597 Jun 19 03:19 3597 Jun 30 19:00	0°Ω	
	3596 Jul 08 04:25 3596 Jul 26 05:08	0° m)		evening max el	3597 Jun 30 19:00 3597 Jul 15 08:31	0°87 19° Ω 23'45	24050112
desc. node	3596 Jul 26 03:08 3596 Jul 30 03:39	0°1110 4°10046'38		desc. node	3597 Jul 15 08:31 3597 Jul 17 00:40	19°8 (23°45) 20° Ω 55'05	4 4 37 13
evening max el	3596 Jul 30 03.39 3596 Aug 02 15:41	8° M) 24'44	26°18'07	retrograde	3597 Jul 17 00:40 3597 Jul 29 07:32	20 δι 33 03 26° Ω 27'52	
retrograde	3596 Aug 02 15:41 3596 Aug 16 15:05	15° m) 34'51	20 100/	evening set	3597 Aug 03 17:30	$25^{\circ}\Omega 21'00$	
. on opiudo	5570 riug 10 15.05	ו עדי אווי בו		overning set	557, 11ug 05 17.50	U L-1 UU	

min. Earth dist.	3597 Aug 08 20:08	22°Ω35'29	0.57370 AU	evening max el	3598 Jun 26 21:46	29° © 52'47	23°24'20
inferior conj	3597 Aug 11 19:10	20°Ω37'11		evening max er	3598 Jun 27 00:46	0°Ω	23 24 20
minimum elong	3597 Aug 11 19:10 3597 Aug 11 18:48	20° Ω 37'11		desc. node	3598 Jul 03 21:42	5° Ω 02'02	
morning rise	3597 Aug 11 16:46 3597 Aug 19 22:34	16° Ω 27'14	3 00 10	retrograde	3598 Jul 10 11:17	6° Ω 39'53	
direct	3597 Aug 17 22:34 3597 Aug 22 12:25	16° Ω 08'02		evening set	3598 Jul 14 09:23	6° Ω 06'15	
morning max el	3597 Aug 31 12:31	20° Ω 21'49	19°09'59	min. Earth dist.	3598 Jul 21 07:34		0.55786 AU
asc. node	3597 Sep 05 17:17	26° Ω 33'40	17 07 37	inferior conj	3598 Jul 23 06:48	1°Ω45'21	
asc. node	3597 Sep 07 23:39	0°m)		minimum elong	3598 Jul 23 00:46	1° £ 4321	
morning set	3597 Sep 17 10:17	17° m) 24'29		minimum ciong	3598 Jul 26 08:41	30°R95	
morning sec	3597 Sep 23 18:30	0° ರ		morning rise	3598 Jul 31 18:11	27°951'24	
	3377 Sep 23 16.30	~		direct	3598 Aug 03 14:27	27°931'35	
superior conj	3597 Sep 25 15:49	3° £ 40'49	1°39'13	uncer	3598 Aug 11 02:18	0°Ω	
minimum elong	3597 Sep 25 17:49	3° ⊆ 50'28	1°39'06	morning max el	3598 Aug 14 02:34	2° Ω 24'08	20°18'45
max. Earth dist.	3597 Oct 02 06:16	16° ⊆ 03'57	1.38461 AU	asc. node	3598 Aug 23 14:21	14°Ω52'41	20 10 43
evening rise	3597 Oct 02 00:10 3597 Oct 06 01:29	22° £ 48'57	1.36401 AU	asc. nouc	3598 Aug 31 15:52	0° M)	
evening rise	3597 Oct 00 01:29 3597 Oct 10 06:52	0°M		morning set	3598 Sep 01 15:43	راتا 0 2° m) 01'09	
desc. node	3597 Oct 10 00:52 3597 Oct 12 23:59	4°M26'44		morning set	3398 SCP 01 13.43	2 11001 09	
desc. flode	3597 Oct 12 23:39 3597 Oct 30 08:25	4 11620 44 0° √		superior conj	3598 Sep 09 06:49	17° m 39'50	1°44'29
avanina may al	3597 Nov 10 15:12	0 x . 13° x 17'00	24947129	minimum elong	3598 Sep 09 06.49 3598 Sep 09 07:07	-	1°44'29
evening max el			24 4/36	max. Earth dist.		17° Mp 41'23	
retrograde	3597 Nov 22 06:19	20°×702'54		max. Earth dist.	3598 Sep 14 12:42	28° Mp 00'56 0° <u> </u>	1.36483 AU
evening set	3597 Nov 27 20:22	17° 🗷 42'56	0.67521 ATT		3598 Sep 15 13:39		
min. Earth dist.	3597 Dec 02 10:19	12° ₹31'55	0.67521 AU	evening rise	3598 Sep 18 10:20	5° £ 20'18	
asc. node	3597 Dec 02 16:33	12° √ 11'19	0012142	desc. node	3598 Sep 29 21:00	24° ♀ 53'11 0° ጤ	
inferior conj	3597 Dec 03 08:34	11°×718'13			3598 Oct 03 03:54	26°ML59'39	25957127
minimum elong	3597 Dec 03 08:14	11° 🖈 19'20		evening max el	3598 Oct 24 03:39		25-57-27
transit middle	3597 Dec 03 08:14	11° 🖈 19'20	0°13'34	. 1	3598 Oct 27 12:47	0° ⊀ 7	
transit begin	3597 Dec 03 06:43	11° 🗷 24'21		retrograde	3598 Nov 05 15:15	4° ₹ 05'22	
transit end	3597 Dec 03 09:45	11° ₹ 14'20		evening set	3598 Nov 11 19:15	1° ∡ 732'23	
morning rise	3597 Dec 08 20:13	5° 🖈 17'41		: E d E c	3598 Nov 13 10:25	30°RM	0.66700 444
direct	3597 Dec 12 11:37	4° ₹ 01'21	10050150	min. Earth dist.	3598 Nov 16 01:52	26°M56'42	0.66799 AU
morning max el	3597 Dec 19 23:23	8° ≯ 16'15	19°52'52	inferior conj	3598 Nov 17 11:12	25°M12'15	
	3598 Jan 05 03:01	0°る		minimum elong	3598 Nov 17 12:21	25°M08'39	0°42'41
desc. node	3598 Jan 08 23:14	5° る 48'16		asc. node	3598 Nov 19 13:34	22°M39'38	
morning set	3598 Jan 15 04:26	15° る 19'48		morning rise	3598 Nov 23 05:50	19°M20'37	
The state of	3598 Jan 24 13:53	0° ≈	1 44125 477	direct	3598 Nov 26 10:19	18°M22'24	10055110
max. Earth dist.	3598 Jan 26 14:33	3°≈13'07	1.44135 AU	morning max el	3598 Dec 03 07:07	22°M10'49	18°57'18
					3598 Dec 09 15:19	0° ∡ ¹	
superior conj	3598 Jan 31 16:10	11°≈21'58		morning set	3598 Dec 25 12:13	24° 🖈 11'37	
minimum elong	3598 Jan 31 10:41	10°≈59'45	1°59'08	desc. node	3598 Dec 26 20:16	26° х 16′59	
	3598 Feb 11 21:10	0° ∀		The state of	3598 Dec 29 05:17	0°る	1 15016 177
evening rise	3598 Feb 13 23:57	3°) (36′19		max. Earth dist.	3599 Jan 09 07:09	17° る 21'21	1.45046 AU
asc. node	3598 Feb 28 15:52	27°) 24'20			2500 1 11 02 10	200-710145	1022117
	3598 Mar 02 17:15	0° Υ	10012110	superior conj	3599 Jan 11 02:10	20°る10'45	
evening max el	3598 Mar 04 04:04	1° Υ 34'24	18°13'19	minimum elong	3599 Jan 10 17:00	19° る 34'37	1°31'24
retrograde	3598 Mar 10 14:20	4°Υ59'26			3599 Jan 17 06:52	0° ≈	
evening set	3598 Mar 13 12:16	4°Υ15'03		evening rise	3599 Jan 26 04:27	14°≈20'13	
	3598 Mar 18 15:03	30° ₹ ₩	2027140		3599 Feb 04 20:24	0° \ 140 \ 50120	10027142
inferior conj	3598 Mar 19 14:19			evening max el	3599 Feb 15 15:49 3599 Feb 15 12:54	14° ¥ 59'30	18-37-42
minimum elong	3598 Mar 19 14:55	28°\£55'27	3°36'39	asc. node		14° ¥ 52'03	
min. Earth dist.	3598 Mar 22 05:04	26° ₩ 06'10	0.63210 AU	retrograde	3599 Feb 22 06:13	18° ¥ 38'34	
morning rise	3598 Mar 25 16:33	22° H 51'51		evening set	3599 Feb 25 10:07	17°) 41'59	2025110
direct	3598 Apr 01 14:17	20° ★ 10'55		inferior conj	3599 Mar 03 03:55	12° ₩ 05'50	
desc. node	3598 Apr 06 22:27	21°\(\frac{1}{33}\)35	25045140	minimum elong	3599 Mar 03 02:58	12° ¥ 08'42	3°35'13
morning max el	3598 Apr 15 11:53	28°) €08'39	27°45'49	min. Earth dist.	3599 Mar 05 03:02	9°) 44'10	0.64965 AU
	3598 Apr 17 06:43	0° Υ		morning rise	3599 Mar 08 19:18	5° ¥ 54'57	
	3598 May 08 11:57	0°8		direct	3599 Mar 15 12:29	3°) €04'21	
morning set	3598 May 19 21:45	21° 8 08'43		desc. node	3599 Mar 24 19:29	7° ¥ 11'36	2700012 -
pp	3598 May 24 05:06	0°II	1 22505 : **	morning max el	3599 Mar 28 21:33	10° ¥ 53'57	27~09'35
max. Earth dist.	3598 May 25 04:21	2° Ⅱ 02'53	1.32797 AU		3599 Apr 13 00:31	0° Υ	
	2500) 5 25 1 1 5	ACT	000010 6		3599 Apr 30 23:28	0° 8	
superior conj	3598 May 27 14:55	7° Ⅱ 16'20		morning set	3599 May 03 11:09	4° 8 44'38	
minimum elong	3598 May 27 14:55	7° Ⅱ 16′20	0°00'06	max. Earth dist.	3599 May 08 00:54	13° 8 50'28	1.33826 AU
behind sun begin	3598 May 27 09:42	6° Ⅱ 48'14		_		*****	
behind sun end	3598 May 27 20:08	7° ∏ 44'28		superior conj	3599 May 11 18:05	21° 8 32'49	
asc. node	3598 May 27 15:08	7° Ⅱ 17'32		minimum elong	3599 May 11 19:33	21° 8 40'33	0°28'07
evening rise	3598 Jun 03 15:11	22° Ⅱ 23'51		asc. node	3599 May 14 12:10	27° 8 22'40	
	3598 Jun 07 07:19	0ං ව			3599 May 15 17:44	Π °0	

J	3		υ	())		, 1	S
evening rise	3599 May 19 01:55	7° Ⅱ 04'13		evening rise	3600 May 02 09:32	21° 8 30'24	
evening rise	3599 May 31 09:25	0°95		evening rise	3600 May 06 15:08	0°II	
evening max el	3599 Jun 08 14:41	10° © 22'15	21°49'10	evening max el	3600 May 20 17:58	21° I I21'24	20°26'14
desc. node	3599 Jun 20 18:43	16° © 33'32	21 17 10	retrograde	3600 May 31 17:03	26° I I42'15	20 20 1 .
retrograde	3599 Jun 21 03:40	16° © 33'52		evening set	3600 Jun 02 17:15	26° I 32'13	
evening set	3599 Jun 23 18:39	16°53332		desc. node	3600 Jun 06 15:44	25° I I20'25	
inferior conj	3599 Jul 03 03:29	12° © 15'31	-3°25'49	inferior conj	3600 Jun 11 21:45	22° I I34'18	-1°32'49
minimum elong	3599 Jul 02 19:10	12°527'07		minimum elong	3600 Jun 11 17:23	22° I I40'40	
min. Earth dist.	3599 Jul 02 18:14	12°528'26	0.54930 AU	min. Earth dist.	3600 Jun 13 06:29	21° ∏ 46'41	0.55007 AU
morning rise	3599 Jul 11 21:06	8° © 23'13		morning rise	3600 Jun 20 16:30	18° Ⅱ 22'57	
direct	3599 Jul 15 02:14	8°900'32		direct	3600 Jun 24 12:18	17° ∏ 51'23	
morning max el	3599 Jul 27 04:55	13° © 41'17	21°47'09	morning max el	3600 Jul 07 22:28	24° ∏ 22'10	23°28'12
	3599 Aug 08 08:20	$0^{\circ}\Omega$. 8	3600 Jul 13 02:09	0ಂತಾ	
asc. node	3599 Aug 10 11:23	3° Ω 48'17		asc. node	3600 Jul 27 08:25	23° © 11'29	
morning set	3599 Aug 17 01:01	16° Ω 49'04			3600 Jul 30 16:44	0°N	
	3599 Aug 23 06:59	0° m)		morning set	3600 Jul 31 12:23	1° Ω 43'01	
	2000 1100 20 1000	- 4					
superior conj	3599 Aug 24 06:54	2° m 05'35	1°42'17	superior conj	3600 Aug 07 13:05	16° Ω 49'19	1°33'54
minimum elong	3599 Aug 24 05:50	2° m 00'03	1°42'15	minimum elong	3600 Aug 07 11:08		1°33'43
max. Earth dist.	3599 Aug 28 01:56	9° m 55'06	1.34794 AU	max. Earth dist.	3600 Aug 10 00:02	22° Ω 03'53	1.33498 AU
evening rise	3599 Sep 01 12:07	18° m) 39'23	1.5 175 1110	man. Darun dige.	3600 Aug 13 19:48	0° m)	1.55 .50 110
evening noe	3599 Sep 07 15:51	0∘ ʊ		evening rise	3600 Aug 15 02:39	2° m/35'21	
desc. node	3599 Sep 16 18:02	0 — 15° Ω 01'58		evening rise	3600 Aug 30 12:04	0° ت	
dese. Hode	3599 Sep 27 07:32	0°M		desc. node	3600 Sep 02 15:03	∘ – 4° Ω 45'19	
evening max el	3599 Oct 06 16:08	10°M36'42	26°51'17	evening max el	3600 Sep	23° £ 58'16	27°21'51
retrograde	3599 Oct 19 18:48	17°M52'37	20 31 17	evening max er	3600 Sep 16 03:37 3600 Sep 26 10:40	0°M	27 21 31
evening set	3599 Oct 19 18:48 3599 Oct 26 11:25	15°M11'36		retrograde	3600 Oct 01 16:38	1°M16'35	
min. Earth dist.	3599 Oct 20 11:23 3599 Oct 30 11:10	11°M12'03	0.65724 AU	renograde	3600 Oct 01 10:38 3600 Oct 06 14:08	1 IIC10 33 30°RΩ	
inferior conj	3599 Oct 30 11:10 3599 Nov 01 08:21	9°M00'38		evening set	3600 Oct 08 18:20	30 K == 28° Ω 35'47	
				•			0.64206 ATT
minimum elong	3599 Nov 01 11:12	8°M52'20	1°41'56	min. Earth dist.	3600 Oct 12 12:08	25° £ 10'53	0.64296 AU
asc. node	3599 Nov 06 10:35	3°M58'44		inferior conj	3600 Oct 14 21:39	22° Ω 38'30	
morning rise	3599 Nov 07 11:45	3°M20'54		minimum elong	3600 Oct 15 02:12	22° Ω 26'27	2-42-10
direct	3599 Nov 10 07:25	2°M37'09	10017157	morning rise	3600 Oct 21 11:16	17° £ 13'41	
morning max el	3599 Nov 16 20:27	6°M09'39	18°17'57	asc. node	3600 Oct 23 07:37	16° Ω 43'08	
	3599 Dec 03 05:31	0° 🗖		direct	3600 Oct 24 00:29	16° £ 40'36	1505512.4
morning set	3599 Dec 05 23:43	4°×728'30		morning max el	3600 Oct 30 12:42	20° Ω 06'28	1/°55'34
desc. node	3599 Dec 13 17:17	16° ₹ 55'29			3600 Nov 06 22:55	0°M	
	2500 70 21 04 25	200 34455	0040100	morning set	3600 Nov 16 15:36	16°M08'23	
superior conj	3599 Dec 21 04:25	28° ∡ ¹44'57			3600 Nov 24 21:45	0° ∡ ¹	
minimum elong	3599 Dec 20 22:11	28° ₹ 20′28	0°48'34		260031 20 10 51	00 30001	0001106
79 J. 17 J.	3599 Dec 21 23:30	0°る	1 45000 433	superior conj	3600 Nov 29 19:51	8°×702'31	
max. Earth dist.	3599 Dec 23 02:25	1°る45'44	1.45220 AU	minimum elong	3600 Nov 29 19:41	8° √ 01'47	0°01'34
evening rise	3600 Jan 06 10:01	24°る10'00		behind sun begin	3600 Nov 29 09:32	7° ∡ 120'43	
	3600 Jan 10 03:29	0° ≈		behind sun end	3600 Nov 30 05:50	8° √ 42'47	
greatest brilliancy	3600 Jan 17 15:13	11° ≈ 37'34	-0.7m	desc. node	3600 Nov 29 14:18	7° ∡ ¹40'03	
evening max el	3600 Jan 30 00:16	28°≈28'47	19°19'20	max. Earth dist.	3600 Dec 04 20:59	16° ₹ 07'06	1.44654 AU
	3600 Jan 31 14:53	0° ∀			3600 Dec 13 18:02	0° ろ	
asc. node	3600 Feb 02 09:54	1° ∺ 20'07		evening rise	3600 Dec 15 22:49	3° る 23'30	
retrograde	3600 Feb 06 02:34	2°) 32′39			3601 Jan 02 17:00	0° ≈	
evening set	3600 Feb 09 13:20	1°) 23′04		evening max el	3601 Jan 12 03:52	11° ≈ 59'59	20°16'20
	3600 Feb 11 05:55	30°R≈		asc. node	3601 Jan 19 06:54	16° ≈ 33'55	
inferior conj	3600 Feb 15 01:47	25° ≈ 30'57	3°19'33	retrograde	3601 Jan 20 00:36	16° ≈ 36'54	
minimum elong	3600 Feb 14 23:48	25° ≈ 37'23	3°19'14	evening set	3601 Jan 23 19:41	15° ≈ 13'16	
min. Earth dist.	3600 Feb 16 09:44	23° ≈ 47'37	0.66320 AU	inferior conj	3601 Jan 29 05:08	9° ≈ 07'53	2°52'43
morning rise	3600 Feb 20 09:59	19° ≈ 17'31		minimum elong	3601 Jan 29 02:40	9° ≈ 16′14	2°52'07
direct	3600 Feb 26 17:00	16° ≈ 30′22		min. Earth dist.	3601 Jan 29 23:21	8° ≈ 06'08	0.67264 AU
morning max el	3600 Mar 10 07:21	23° ≈ 59′26	26°06'05	morning rise	3601 Feb 03 09:26	2°≈54'02	
desc. node	3600 Mar 10 16:31	24° ≈ 22'47		direct	3601 Feb 09 03:09	0° ≈ 20′26	
	3600 Mar 15 16:41	0°) €		morning max el	3601 Feb 20 16:01	7° ≈ 14'12	24°44'43
	3600 Apr 05 09:58	$0^{\circ}\Upsilon$		desc. node	3601 Feb 25 13:33	12° ≈ 40′25	
morning set	3600 Apr 15 11:30	17° Y 38'37			3601 Mar 10 10:04	0° ∀	
max. Earth dist.	3600 Apr 19 10:05	25° Y 07'26	1.35310 AU	morning set	3601 Mar 28 17:33	29°) 35′23	
	3600 Apr 21 21:41	0°8			3601 Mar 28 23:07	$0^{\circ}\Upsilon$	
				max. Earth dist.	3601 Apr 01 08:45	6° Ƴ 07'48	1.37213 AU
superior conj	3600 Apr 24 13:59	5° 8 23'17	-0°57'20				
minimum elong	3600 Apr 24 17:01	5° 8 38'43	0°56'46	superior conj	3601 Apr 07 23:30	18° Y 38'48	-1°24'55
asc. node	3600 Apr 30 09:12	17° 8 20'52		minimum elong	3601 Apr 08 03:48	18° Ƴ 59'47	
	=			-	=		

	3601 Apr 13	3 16:54	9° 8	
evening rise	3601 Apr 10	6 11:41	5° 8 34'36	
asc. node	3601 Apr 1	7 06:14	7° と 06'59	
	3601 Apr 30	0 16:03	$\Pi^{\circ}0$	
evening max el	3601 May 03	3 09:26	3° Ⅱ 00'57	19°21'32
retrograde	3601 May 12	2 15:14	7° Ⅱ 30′21	
evening set	3601 May 14	4 15:31	7° Ⅱ 18′32	
inferior conj	3601 May 23	3 03:41	3° Ⅱ 11'11	0°24'06
minimum elong	3601 May 23	3 04:41	3° Ⅱ 09'31	0°23'43
desc. node	3601 May 24	4 12:46	2° Ⅱ 16'43	
min. Earth dist.	3601 May 25	5 21:02	1° Ⅱ 24′28	0.56027 AU
	3601 May 28	8 05:31	30° ₹ 8	
morning rise	3601 May 3	1 14:55	28° 8 26'27	
direct	3601 Jun 03	5 09:02	27° 8 34'47	
	3601 Jun 13	3 09:26	$\Pi^{\circ}0$	
morning max el	3601 Jun 19	9 12:30	4° Ⅱ 45'48	25°09'30
	3601 Jul 0'	7 14:06	0°€	
asc. node	3601 Jul 14	4 05:28	12° 9 53'58	
morning set	3601 Jul 10	6 00:06	16° 9 36'51	
	3601 Jul 22	2 04:16	$0^{\circ}\Omega$	
superior conj	3601 Jul 22	2 22:57	1° Ω 42'16	1°20'18
minimum elong	3601 Jul 22	2 20:37	1° Ω 29′30	1°19'58
max. Earth dist.	3601 Jul 24	4 05:51	4° Ω 30′54	1.32616 AU
evening rise	3601 Jul 30	0 02:18	16° Ω 57'04	
	3601 Aug 03	5 18:13	0° m)	
desc. node	3601 Aug 20	0 12:04	23° m 52'15	
	3601 Aug 25	5 05:22	0∘ ⊽	
evening max el	3601 Aug 3	1 13:16	6° ჲ 52'02	27°23'10
retrograde	3601 Sep 14	4 08:01	14° ≙ 07'42	
evening set	3601 Sep 2	1 12:37	11° ≙ 38'41	
min. Earth dist.	3601 Sep 25	5 03:12	8° ≙ 42'48	0.62540 AU
inferior conj	3601 Sep 28	8 00:18	5° ≙ 59'11	-3°42'12
minimum elong	3601 Sep 28	8 06:00	5° ≙ 45'38	3°40'31
morning rise	3601 Oct 05	5 01:00	0° £ 52'26	
direct	3601 Oct 0	7 10:31	0° ჲ 26'31	
asc. node	3601 Oct 10	0 04:40	1° ≙ 01'48	
morning max el	3601 Oct 14	4 04:51	3° ჲ 53'53	17°51'01
morning set	3601 Oct 30	0 06:03	28° ≏ 53'17	
3	3601 Oct 30	0 21:02	0°M₊	
superior conj	3601 Nov 10	0 12:44	18°M35'18	0°40'32
minimum elong	3601 Nov 10	0 16:19	18°M50'26	0°40'02
desc. node	3601 Nov 10	6 11:21	28°M27'27	
	3601 Nov 1	7 10:07	0° ∡ ¹	
max. Earth dist.	3601 Nov 17	7 12:19	0° ∡ ¹08'56	1.43428 AU
evening rise	3601 Nov 25	5 09:07	12° ∡ ³37'13	
•	3601 Dec 0	6 20:37	0°ರ	
evening max el	3601 Dec 26	6 02:03	25° る 32'58	21°25'42
C	3601 Dec 3	1 18:27	0° ≈	
retrograde	3602 Jan 03	3 22:13	0° ≈ 47'55	
asc. node	3602 Jan 00	6 03:56	0° ≈ 20'35	
		6 21:00	30°Ŗ ට	
evening set		8 03:21	29° පි 09'01	
inferior conj		3 11:41	22° ろ 53'28	2°17'00
minimum elong		3 09:15	23° る 01'55	2°16'13
min. Earth dist.		3 17:37	22° る 32'59	0.67809 AU